Principles and Policies for the 2002 INTEGRATED (303(d)/305(b)) REPORT

Upper Owyhee Watershed

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DEPARTMENT OF ENVIRONMENTAL QUALITY WORKING PRINCIPLES AND POLICIES FOR THE 2002/2003 INTEGRATED (303(D)/305(B)) REPORT

Introduction

These are the Department of Environmental Quality (DEQ) working principles and policies that were used to compile the *2002 Integrated Report*. This report which includes requirements of the Clean Water Act (CWA) Section 305(b) and Section 303(d) lists. Each state is required, by the CWA, to furnish this report and list to the U.S. Environmental Protection Agency (EPA) every two years. This year these two separate documents are being combined into one report, referred to as the "integrated report."

This integrated report will categorize or classify all of the state's waters into one of five different categories, explained in detail below. This is a substantial change from how reports were organized in the past and consequently they will look completely different from past efforts. This is the case for two reasons. First, the five categories (which correspond to the report's five sections) will encompass all of the states waters. Second, the use of "assessment units" (AU) used in this report do not always match previous boundaries. It will be nearly impossible to do a direct comparison between the 1998 303(d) list and the 2002 integrated report. However, there will be a crosswalk to locate 1998 303(d) segments in this new assessment unit framework, under Section 5.

This integrated report serves two functions. First it is a reporting requirement of the CWA and second, and maybe more importantly, it informs the public and provides a chance to comment on the status of all of Idaho's waters. Second, it enables interested parties to comment on Idaho's 305(b) Report for the first time. This is a unique opportunity for the public to understand the overall status of Idaho's water quality and learn what DEQ is planning on doing to improve it.

These working principles and policies do not supercede *Idaho's Water Body Assessment Guidance – Second Edition* (WBAG) (Grafe, et al. 2002); rather this document supports its use and provides guidance on its implementation as a tool for determining beneficial use support status and determining water quality standards exceedances for the purposes of 303(d) listing.

EPA Requirements for the 2002/2003 Integrated Report

The federal CWA provides the regulatory context and mandate for state water quality monitoring and assessment programs. The overall objective of the CWA is to restore and maintain the chemical, physical, and biological integrity of the Nation's waters. There are a number of goals set in the CWA to meet this objective, including an interim goal of "…water quality which provides for the protection and propagation of fish, shellfish, and wildlife and provides for recreation in and on the water (to be achieved by July 1, 1983)." Various subsections within the CWA call on the states to conduct specific activities to monitor and protect their waters. These activities include:

- developing and adopting water quality standards to protect beneficial uses (Section 303),
- establishing monitoring programs to collect and analyze data regarding water quality (Section 106),
- reporting on the status of waters and the degree to which designated uses are supported (Section 305(b)), and
- identifying and prioritizing waters that are not meeting water quality standards (Section 303(d)).

EPA Regulations at 40 CFR 130.7(b) describes requirements for identification and priority setting for water quality-limited segments still requiring TMDLs, including:

- (1) Each State shall identify those water quality-limited segments still requiring TMDLs within its boundaries for which:

  (i) Technology-based effluent limitations required by Sections 301(b), 306, 307, or other Sections of the Act;

  (ii) More stringent effluent limitations (including prohibitions) required by either state or local authority preserved by Section 510 of the Act, or Federal authority (law, regulation, or treaty); and

  (iii) Other pollution control requirements (e.g., best management practices) required by local, state, or federal authority are not stringent enough to implement any water quality standards (WQS) applicable to such waters.

- (2) Each state shall also identify on the same list developed under paragraph (b)(1) of this section those water quality-limited segments still requiring TMDLs or parts thereof within its boundaries for which controls on thermal discharges under Section 301 or state or local requirements are not stringent enough to assure protection and propagation of a balanced indigenous population of shellfish, fish and wildlife.

The EPA issued the *2002 Integrated Water Quality Monitoring and Assessment Report Guidance* on November 19, 2001. The EPA guidance recommends that states, territories, and authorized tribes submit a *2002 Integrated Water Quality Monitoring and Assessment Report* that will satisfy CWA requirements for both Section 305(b) water quality reports and Section 303(d) lists. This integrated report should include the following information:

- delineation of water quality AUs based on the National Hydrography Dataset;
- status of and progress toward achieving comprehensive assessments of all waters;
- water quality standard attainment status for every AU;
- basis for the water quality standard attainment determinations for every AU;
- additional monitoring that may be needed to determine water quality standard attainment status and, if necessary, to support development of total maximum daily loads (TMDLs) for each pollutant/AU combination;
- schedules for additional monitoring planned for AUs;
- pollutant/AU combinations require TMDLs; and

- TMDL development schedules reflecting the priority ranking of each pollutant/AU combination.

Public Comments to DEQ

Since the integrated report is an EPA recommendation, DEQ is not seeking comments on the structure of the five part list. While the format is EPA's recommendation, the way decisions are made about how to place waters in each category is, to an extent at, DEQ's discretion. The exception is when waters are moving from Category 5 (303(d) list) to another category. Additionally, listing in Categories 1-4 can be viewed as decision to not list in Category 5. It is important for EPA and the public to understand how DEQ makes decisions about categorizing waters. Thus, DEQ will respond to comments about how waters are placed in each category (see Relevent Policies, Section 1).

Section 5, formerly known as the "water quality impaired list" or "list of waters requiring a TMDL," or the "303(d) List is the focal point for comment. DEQ is soliciting the public to comment on all the waters of the state. Specific comments, such as the placement of a water body in a category of the list, or an omission from a category are the most helpful. DEQ is providing an opportunity for more general comments as well, though these may be more difficult for DEQ to address, particularly as they may involve issues outside of Section 305(b) and Section 303(d) requirements. Fundamentally, DEQ wants to know, if Section 5 is accurate and complete.

DEQ relies on several key technical and policy statements in making water quality determinations, all which come together in DEQ's WBAG II (Grafe et al. 2002). This document is the foundation to DEQ's ambient monitoring and assessment program. It focuses on biology as a measure of aquatic life and water quality status (NRC 2001). There are a number of technical documents that support WBAG II: Idaho River Ecological Assessment Framework, Idaho Small Streams Ecological Assessment Framework and Public Involvement and Responses to comment Summary; Water Body Assessment Guidance, Second Edition. All of these are available on DEQ's web page. Through the WBAG II and these technical-supporting documents, DEQ sets out a consistent and relevant water quality decision-making process. The second edition, used for compiling the integrated report, reflects an investment of millions of dollars and thousands of man-hours. DEQ has already spent a considerable amount of time and effort taking and responding to public comment to make this a better final product. The response to this public comment, over 100 pages, can be viewed at DEQ's web page, as can any of the documents listed above. DEQ is not seeking further comments on its process or tools at this time, but will hold any received for consideration in the next edition of the WBAG II.

Description of the Five Integrated Report Sections

DEQ will report to EPA via EPA's Assessment Data Base. This will be an all-electronic report. Certain supporting documents will be or have been posted to the World Wide Web via DEQ's web server. The report consists of five sections as outlined below.

Section 1) Water of the State Attaining All Standards

At this time Idaho is proposing a minor number of select Assessment Units falling wholly in wilderness areas or roadless (See Section 14 p. 16 for definitions and an explanation) for placement in Section 1. Idaho has many waters that support all beneficial uses but lack an assessment methodology addressing the wildlife and aesthetics beneficial uses. Even though Idaho's Water Quality Standards state that compliance with general narrative standards is deemed to be all that is needed to show a water body as supporting the Wildlife and Aesthetics Beneficial Use, Idaho chooses to list most waters in Section 2 below. The only distinction between Section 1 and Section 2 of the integrated report is the wilderness status of these selected Assessment Units.

Section 2) Waters of the State Attaining Some (most) Standards

Waters bodies admitted to this category fully support those beneficial uses that were assessed. No Tier 1 data were submitted to DEQ for assessment that indicated impairment. Waters assessed for the 1998 303(d) List that supported their beneficial uses and that were approved by EPA as supporting their uses were carried forward to this section when no data indicated a change in their beneficial uses support status.

Section 3) Waters of the State with Insufficient Data and Information to Determine if Any Standards are Attained.

Water bodies displayed in Section 3 of the integrated report meet two criteria: first, no Tier 1 data indicated an impairment of beneficial uses and, second, not enough data existed at the time of assessment to make a determination that standards have been attained using DEQ's WBAG II.

Section 4) Impaired or Threatened for One or More Standards but Not Needing a TMDL

Section 4 has three subsections:

a) TMDL Completed
b) Expected to Meet Standards
c) Not Impaired by a Pollutant

Section 5) TMDL Needed. This portion of the integrated report is equivalent to the 1998 303(d) list. Section 5 is a streamlined 303(d) list that does not contain waters impaired by non-pollutants such as flow alteration or habitat modification. For a water to be listed in Section 5, the following must be present:

A) Water Listed in 1998 as impaired OR The water is impaired as determined by WBAG II.
B) The water is impaired by a pollutant
C) Must comply with WQS §58.01.02.054

Water body **segment/pollutant pairs** might be on more than one part of the list, but according to the Integrated Report guidance, "Each AU should be placed in only one of the five assessment categories." Most occurrences of this are for water bodies that are impaired for multiple pollutants. Various scenarios exist:

a) A TMDL is approved for only a subset of the causes impairing a water body (for example, a water body is listed for sediment and temperature and only has an EPA approved TMDL for sediment. That water body would be listed in Section 4a for sediment (EPA approved TMDL) and Section 5 for temperature.

b) A water was put on the 303(d) list for a pollutant (e.g., temperature) and for a non-pollutant (e.g., flow alteration). The water body would be listed in Section 5 for temperature and Section 4c for flow alteration. See the policies regarding pollutants and pollution below.

Relevant Policies

1. Criteria to Exclude or Remove Waters from Section 5 (303(d) list)

DEQ must demonstrate good cause for not including water bodies in Section 5 of the integrated report that were on previous 303(d) lists (pursuant to 40 CFR 130.7(b)(6)(iv)). Good cause includes, but is not limited to, more recent and accurate data, more sophisticated water quality modeling, flaws in the original analysis that led to the water body being listed, or changes in conditions (e.g., new control equipment or elimination of discharges).

The process by which DEQ makes beneficial use support status determinations is outlined in Idaho's WBAG II. DEQ worked extensively to ensure the public and EPA had opportunity to review and comment upon their assessment process (the WBAG II document). DEQ has considered and incorporated suggestions made by EPA and the public. EPA reviewed this assessment process and provided comments in June 2001, met with DEQ to clarify those comments in July 2001 and provided comments again in September 2001. While EPA neither approves nor disapproves any state's assessment methodology, they reviewed it prior to its use.

In EPA correspondence dated September 28, 2001, EPA was in agreement that the purpose of WBAG II is to "…identify those water quality limited segments still requiring TMDL (as per implementing regulations at 40 CFR 130.7(b)) and is not a tool to identify downward trends, threatened waters, change in condition, or areas of anti-degradation."

2. Pollutants

Pollutants are generally any substances introduced into the environment that adversely affects the usefulness of a resource or the health of humans, animals, or ecosystems. Pollutants are defined under the CWA Section 502(6) and WQS §39.3602(19). With regard to Idaho's 303(d) list this includes things such as sediment, nutrients, toxics, and thermal modification, if they impair a beneficial use.

3. Pollution

Pollution is a very broad concept that encompasses human-caused changes in the environment that alter the functioning of natural processes and produce undesirable environmental and health effects. Pollution includes human-induced alteration of the physical, biological, chemical, and

radiological integrity of water and other media. Flow and habitat alterations are considered pollution but not pollutants according to EPA (WQS §502(6), §502(19) CWA and Robert H. Wayland III, November 19, 2001 memo), hence DEQ does not develop TMDLs in these two situations. However, water bodies affected by these forms of pollution are not overlooked or ignored, they are identified in Section 4c of the Interpreted Report. While not pollutants, flow and habitat alteration are often the result of or affected by the existence of pollutants in the water body that are suitable for TMDL calculation. Thus, for example, there may be excess sediment that impairs a use and therefore, violates state water quality standards on a water body that may be impacted by a lack of water flow (or habitat modification). If the impairment is at least in part the result of excess sediment, the water body will be listed on the 303(d) list.

4. Data Representation and Assessment Unit

Assessment Units (AUs) are groups of similar streams that have similar land use practices, ownership, or land management. AUs now define all the waters of the state of Idaho. These units and the methodology used to describe them can be found in the WBAG II. Using assessment units to describe bodies of water offers many benefits; the primary benefit is that now all the waters of the state are defined consistently. This fundamental requirement of 305(b) reporting is now fulfilled. Because AUs are a subset of water body identification numbers there is now a direct tie to the water quality standards for each AU so that uses defined in the standards are clearly tied to streams on the landscape.

This powerful new framework of AUs for reporting and communicating needs to be reconciled with the legacy 303(d) segments. Due to the nature of the court-ordered 1994 listings, all segments were added with boundaries from "headwaters to mouth." In order to deal with the vague boundaries in the listings and to complete TMDLs at a reasonable pace, DEQ set about writing TMDLs at a watershed scale so that all the waters in a drainage are and have been considered for TMDL purposes since 1994.

The boundaries from a currently listed segment have been transferred to the new AU framework using an approach quite similar to how DEQ has been writing SBAs and TMDLs. All AUs contained in the listed segment were carried forward to Section 5 of the Integrated Report. AUs not wholly contained within a previously listed segment but partially contained (even minimally) were also included in Section 5 of the Integrated Report. This was necessary to maintain the integrity of the 1998 303(d) list and maintain continuity with the TMDL program because Aus were not based upon 303(d) listing, rather on the factor described above. These new units have lead to better assessments for listing and de-listing

When assessing new data that indicated full support, only the AU that the monitoring data represented was removed from Section 5 of the Integrated Report as opposed to removing all wholly or partially contained AUs that were carried forward from the previous 303(d) list.

Boundaries for all waters in the Integrated Report will be solely based on AUs as defined in the Water Body Assessment Guidance.

5. Beneficial Uses, Designated and Presumed

The following is taken directly from WBAG II and is included here because of the importance of beneficial uses, designated or existing, play in the assessment. DEQ is not soliciting comment on the following sub-sections entitled "Designated Surface Waters" and "Undesignated Surface waters" since this material has already undergone public comment and response. It is referenced here for information purposes only.

Designated Surface Waters

Surface water use designations are defined and listed in the Idaho water quality standards (WQS § 100-160). These include uses that are applied on a water body-specific basis (aquatic life, recreation, domestic water supply), and uses that are applied to all waters of the state (agricultural and industrial water supply, wildlife habitat, and aesthetics). Waters may also be designated as outstanding or special resource waters (WQS § 055, 056); however, these two designations are not covered in this guidance.

Water bodies with specific use designations are listed in tables in WQS § 110-160 following the Idaho WBID (see Section 2 for an explanation of the WBID system). Unless broken out separately in the tables, use designations listed in the tables as the standards for a WBID unit apply to all perennial segments of waters included within that particular WBID unit. Usually these are tributaries, but in a few cases include nearby disconnected waters, since the WBID system has to encompass all waters in the state. For example, Cottonwood Creek, WBID 17040212-14, is designated for cold water and secondary contact recreation uses. This designation also includes subordinate streams within that WBID unit as shown in Table 3-1.

Table 3-1. Subordinate Streams within WBID 17040212-14

WBID #	WBID Name	Included Waters	Perennial portions also become designated as:
14	Cottonwood Creek	Burnt Creek	COLD SCR[1]
		Cottonwood Creek	COLD SCR
		Dry Cottonwood Creek	COLD SCR
		North Cottonwood Creek	COLD SCR
		Williams Reservoir	COLD SCR

[1] COLD = cold water;
SCR = secondary contact recreation

If, for example, North Cottonwood Creek also had unnamed tributaries, then the cold water and secondary contact recreation designations would apply to those perennial portions of the unnamed tributaries as well.

The distinction that, unless otherwise designated, the use designations of a WBID unit only apply to perennial portions of waters in the WBID is necessary because of the inclusive manner in which WBIDs are defined. Somewhere in the

continuum of stream channels from rivers to rills, there is a point above which a rivulet is so small that it cannot provide an aquatic habitat that can support a biological community with composition and function similar to reference conditions. All of the aquatic life uses presume fully established biological communities, which in turn presume a persistent aquatic environment. Temporary waters (e.g., intermittent streams, vernal pools) may have important ecological functions but cannot attain the same biological communities as perennial waters.

Undesignated Surface Waters

Waters listed in WQS § 110-160 for which uses have not yet been designated or which have incomplete use designations are considered undesignated waters for those uses. Two concepts that are important for determining which beneficial uses are to be protected, and thus assessed on undesignated waters, are addressed in the Idaho WQS: presumed uses and existing uses.

1.1.1. Presumed Uses

DEQ presumes that most waters in Idaho will support cold water aquatic life and, depending on the characteristics of the water body (Section 7), primary or secondary contact recreation (WQS § 101.01a). Cold water aquatic life use support determination procedures, including numeric criteria and recreation criteria, apply to undesignated, perennial waters to protect these presumptive uses. If an undesignated surface water body is intermittent (i.e., has zero flow at some time during most years), then aquatic community indexes cannot be applied; however, numeric criteria do apply to intermittent waters during periods of "optimal" flow (see WQS § 003.51, 070.07).

1.1.2. Existing Uses

Existing beneficial uses of the waters of the state are to be protected, even if not designated (WQS § 050.02b). "Existing" is defined as more recent than 1975, if the use no longer can be documented to occur. Section 7 describes how to determine which recreational use is "existing." For the purpose of determining whether a water body fully supports designated and existing beneficial uses per the WQS § 053, aquatic life beneficial uses may be assumed to exist as described in Section 3.2.2.1. These initial determinations of existing aquatic life uses are needed to complete water body assessments and to assemble a 303(d) list. Actual subsequent use designations may be different, depending upon additional information that may be received following the procedures described in Idaho Code 39-3604 and the WQS § 101.01.

6. Existing and Readily Available Data

DEQ conducted a 45-day call for data from February 21, 2002 to April 8, 2002. During that time DEQ Regional Offices sent letters requesting data pertaining to water quality criteria and

beneficial uses to their data partners such as the Idaho Department of Fish and Game, U.S. Forest Service, and the Bureau of Land Management. Prior to this 45-day period DEQ advertised in daily newspapers across the state that DEQ was looking for data as described above. In addition to these outreach efforts, DEQ hosted a comprehensive web site to help the public to find AUs geographically to assist them in providing data for the assessments. The web site served approximately 13,074 users, averaging 189 requests per day.

7. Data Quality

As noted above for beneficial uses, the following subsections entitled "Tier I, Tier II and Tier III, respectively, are taken directly from WBAG II and are intended for context and information only. DEQ is not soliciting comments on these subsections as they have already undergone public comment and response. As published in the WBAG II, data are the foundation of DEQ's assessment process. Although the WBAG II was designed primarily to assess Beneficial Use Reconnaissance Program (BURP) data obtained by DEQ, DEQ also considers existing and readily available data from other sources. The data used in the assessment process may be from other agencies, institutions, commercial interests, interest groups, or individuals and may relate to the existence, support status, or associated criteria for the beneficial uses in a water body.

Tier I

The scientific rigor of Tier I data is characterized as high and typically includes monitored data collected by professional scientists or professionally trained technicians with more than 30 hours of supervised training. The data are collected and analyzed under a monitoring plan with quality assurance and parameters measured. Samples are processed in an EPA-certified lab following standard methods or by a professional taxonomist. Biological data may come from one of several different assemblages, such as macroinvertebrates, fish, or algae, and are identified by a professional taxonomist. Physical habitat data may have quantitative measurements and standardized qualitative assessment procedures.

To be considered relevant, Tier I data usually include direct measurements or observations of beneficial uses, criteria, or causes of impairment. In addition, the sampling needs to be representative, that is, 1) to have been conducted at multiple times and locations, or 2) at a representative location with specific locations identified on a map or with geographical information system (GIS). The information must be less than five years old and must be able to be differentiated along a gradient of environmental conditions (EPA 1998). Predictive models must include calibration factors and, as noted below, are not used exclusively to make beneficial use determinations. Examples of the types of monitoring data typically meeting Tier I criteria include BURP, EPA Environmental Management and Assessment Program (EMAP), Rapid Bioassessment Protocols, Use Attainability Analyses, graduate theses, and professionally prepared and peer-reviewed studies, reports, or predictive models. These data can come from a number of possible sources such as state and federal agencies, academic institutions, local governments, or private parties. Tier I data are of sufficient quality and relevance to be used for 303(d) listing and de-listing decisions, 305(b) reports, subbasin assessments, and TMDL development. Data must meet both scientific rigor and relevance of Tier I criteria to be classified at the Tier I level.

Tier II

DEQ characterizes the scientific rigor of Tier II data as qualitative or semi-quantitative data. The data collectors will have followed documented field, laboratory, and data-handling protocols, have rated parameters, and may have a monitoring plan. The monitoring plan may not provide quality assurance (QA) or quality control (QC) information. Tier II data include professionally conducted evaluations and habitat data consisting primarily of standardized visual assessments or evaluations. However, some field staff may not be trained, the evaluating laboratory may not be certified, or a professional taxonomist may not identify the samples. Relevant Tier II data may include evaluations based on monitored or evaluated data more than five years old, watershed land use information, modeling results with estimated inputs, or measurement of an atypical event (EPA 1998). Data may relate to a watershed rather than be water body specific. They may also relate to guidelines or objectives of other government entities. Data collected for Environmental Assessments, Proper Functioning Condition (PFC) assessments, Cumulative Watershed Effects (CWE) Process, and agency planning documents, as well as Citizen Volunteer Monitoring data, are examples of types of data that would be considered Tier II. Tier II data are not used in 303(d) listing decisions due to higher data requirements for impairment decisions under Section 303 (see Section 1.4.1). However, Tier II data may be used in subbasin assessments and TMDLs when the assessor has the time to consider these data in context with other collected information. These data can also be used to establish beneficial uses for assessments and in 305(b) reports.

Tier III

The scientific rigor of Tier III data often includes information collected by unknown or untrained individuals. The data may not have been collected or analyzed following standard or reported protocols. Data without any originating documentation also appears in this category. Relevance of data is limited due to information having no intrinsic judgment or known reference for comparison. The data may have been extrapolated based on other sites, or a reflection of a specific localized condition not representative of the water body. This type of information may be considered as general background information, but it is not of sufficient rigor and relevance for listing decisions or regulatory actions. Tier III data are not used in 303(d) decisions, subbasin assessments, TMDLs, or 305(b) reports due to the uncertainty in the scientific rigor in their collection and relevance to beneficial uses or water quality standards. This data may be used in helping DEQ target future planning and monitoring.

8. Temperature

A 10% temperature criteria exceedance policy exists for 303(d) listing and de-listing decisions only and is not intended to determine compliance with the WQS for other purposes. While necessary to target the current water quality criteria in drafting a TMDL, if the frequency of exceedance of the temperature criteria is less than 10%, and there is no other evidence of thermal impairment, then it is possible to move for de-listing rather than proceed with a temperature TMDL. If a temperature TMDL is established, then during implementation of the TMDL the water will be reassessed. In that reassessment the goal for temperature would be considered met if criteria exceedances fall below 10% for a 90 percentile air T year (per the air T exemption).

Frequencies of temperature exceedances must be calculated on the metric of interest (e.g., the frequency of daily maximum stream temperature exceeding daily maximum criteria). Except for single daily maximum criteria, this requires data processing of the raw temperature record before counting exceedances. What follows is more detail on calculation of a criteria exceedance frequency for water temperature.

Time Periods of Interest

For cold water aquatic life the summer period of June 21 through September 21 is the period of interest on which to gage frequency of temperature exceedances. This 93-day period acknowledges the natural seasonal progression of water temperatures in which peak water temperatures typically occur between July 15 and August 15, with progressively cooler temperatures generally occurring on both sides of the peak period.

For salmonid spawning the time period of interest is the entire spawning and incubation period at a given site, but not less than 45 days. Forty-five days is set as a minimum spawning period as this allows two weeks for spawning and an additional month for egg incubation. The frequency of exceedances of salmonid spawning criteria should be based on the entire spawning and incubation period at the site in question. The entire spawning period at a site, even when greater than 45 days, will usually be shorter than the broad periods that were formerly in Idaho's water quality standards. Those broad periods, often still used as rules of thumb, were intended to encompass spawning periods statewide, from valley to mountain.

Critical Time Periods

In absence of data to the contrary, critical periods for water temperature are defined as follows. For cold water aquatic life the critical time period is from July 15 through August 15, the time period when most streams reach their highest temperature of the year. Spawning often occurs when water temperatures are in a spring or fall transition. Therefore, for *salmonid spawning* the critical time period is the 22 days at the warmer end of the spawning period. For spring spawners this will be at the chronological end of the period, while for fall spawners this will be at the chronological beginning of the period.

Complete Data Records

In order to calculate and evaluate a percent exceedance for temperature, an adequate data record is needed. The best situation is to have a complete data record for the entire period of interest as defined above; however, it is acknowledged that this is not always possible, even when planned. Furthermore much historical data will have been collected before this policy was in place. While collecting a complete data record for the entire period of interest should be the goal of future monitoring efforts, the allowances discussed below are made for evaluating partial data records.

Partial Data Records

Partial data records that do not include the critical time periods are inadequate for estimating a frequency of exceedance less than 10% and therefore can not be used to determine compliance with Idaho's temperature criteria.

On the other hand, partial data records that do not include the critical time periods may be sufficient to estimate a frequency of exceedance that is at least 10% and thus a violation of criteria. This occurs when the observed number of days over criteria in the partial record is greater than the number of days necessary to reach 10% exceedance for the entire period of interest. For example, if for salmonid spawning a partial data record includes 41 days of a 90 day spawning period, and 15 of those days are over the criteria, then the frequency of exceedance is at least 15/90, or 17%, even if it were assumed the 49 days without data met the criteria. For cold water aquatic life a frequency of exceedance greater than 10% is documented with 10 days of exceedance, even if those 10 days are the only data available (10/93, or 11%). Data records less than 10 days for cold water aquatic life or less than 10% of the applicable spawning period are inadequate to show a frequency of exceedance that is at least 10% and are therefore inadequate to determine violation of Idaho's temperature criteria.

If the partial data record includes all of the critical time period it may be possible to infer the frequency of exceedance is not more than 10%. For cold water aquatic life, if the partial data record includes the critical period from July 15 thru August 15 inclusive and the frequency of exceedance is less than 10%, then it can be assumed the frequency of exceedance for the entire summer period of interest is less than 10%. Similarly, if the data record during *salmonid spawning* includes the warmest 22 days of the spawning period (end or beginning of the time period depending on whether spawning extends into spring or fall) and the frequency of exceedance is less than 10%, then it can be assumed that the frequency of exceedance is less than 10% for the entire spawning period.

If the calculated frequency of exceedance is greater than 10% for a partial data record it may still be possible to infer a frequency of exceedance as if data for the entire period of interest had been collected. To do so one must examine the data record and consider seasonal trends in temperature.

If the last (or first) seven consecutive days at the cool end of the record show no exceedances of criteria, then it may be assumed the entire following (preceding) unmonitored portion of the time period of interest is also without exceedances. In which case an inferred frequency of exceedance may be calculated using the entire period of interest as the denominator. For example, a period of interest maybe a spawning period which begins May 1 and ends June 30. The available data record begins June 1st and shows five exceedances of a 13 °C daily maximum criterion. The calculated frequency of exceedance is 5/30, or 17%. Further examination of the data record reveals that all five exceedances occurred after June 15th with no exceedances in the first 7 days of June, at the cooler beginning of the record. It can therefore be assumed that had data been obtained for May it would also show no exceedances of the criterion. The inferred frequency of exceedance for the entire spawning period would be 5/61, or 8%; no violation of standards.

Metric Definitions

Water quality criteria can be expressed in several different kinds of metrics. The four most common metrics are defined below.

> MDMT – Maximum Daily Maximum Temperature. This is the highest daily maximum temperature recorded during the survey period at a site. This is the metric for Idaho's cold water biota criterion of 22 °C, and salmonid spawning criterion of 13 °C. In the case of the salmonid spawning criterion, the applicable time period is when spawning is known to occur, not necessarily the entire period monitored.
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> MDAT – Maximum Daily Average Temperature. This is the highest daily average temperature recorded during the survey period. This is the metric for Idaho's cold water criterion of 19 °C, and salmonid spawning criterion of 9 °C.
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> MWMT – Maximum Weekly Maximum Temperature. This is the highest weekly maximum temperature (i.e., the peak in the seven-day running mean of daily maximum temperatures during the survey period). This is the metric for Idaho's juvenile rearing bull trout criterion of 13 °C, and EPA's juvenile rearing bull trout criterion of 10 °C. Idaho's criterion applies June through August; EPA's June through September.
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> MWAT – Maximum Weekly Average Temperature. This is the highest weekly mean temperature (i.e., the peak in the seven-day running mean of daily average temperature during the survey period). This is metric is not currently used in Idaho's water quality rules but is the metric for EPA's proposed juvenile rearing criterion of 15 °C.

These definitions are important as they require different amounts of data in order to be calculated, and as a matter of policy, are handled differently as explained below.

Three Types of Temperature Data

Water temperature data can be collected by dipping a thermometer (mercury, alcohol, or digital) into a stream, producing a single measurement. These will be referred to as adhoc measurements. Information from these measurements is of very limited utility as usually only one measurement is obtained and thus could only be used for evaluating MDMT. Often these measurements are obtained for reasons other than evaluation of water temperature criteria (e.g., in order to properly set an electofisher), and can be taken without due regard to being representative, influences of direct sunshine, or proper calibration. This is true of most of Idaho's BURP water temperature measurements.

More commonly, water temperatures are obtained as a continuous record, with digital recording thermometers. These devices do not produce a truly continuous record but rather store a history of regularly spaced measurements that can be conveniently downloaded to a computer. If there are enough measurements per day, these records can be used to calculate all the metrics above and more. Older analog devices were used for a time and produced truly continuous records of

temperature, as a line on a piece of paper. This data format, however, requires much greater effort to process into metrics such as above, and involves a person reading the chart and through transcription producing a record basically no different than that of digital recording thermometers. Both of the above will be referred to as continuous measurements.

Far less common, water temperatures are collected by a maximum/minimum thermometer the "remembers" only the highest and lowest temperature in the time period between readings. If read regularly (e.g., at the same time each day), these can provide useful information. These will be referred to as data maximum/minimum measurements.

Data Required To Calculate Metrics

Maximum Daily Maximum Temperature

A daily maximum is the highest temperature in a day, thus it only requires one measurement taken at the right time; however, it usually is not known when water temperatures peak unless continuous measurements are at hand. The likelihood of a continuous record actually capturing the maximum temperature (or the difference between the true maximum and measured maximum) depends on how fast the temperature changes during a day and how closely spaced measurements are taken. However, if a single measurement exceeds the MDMT limit, even if it not known for sure that the temperature recorded is the true daily maximum, it is known that the daily maximum is no less than the that single measurement, and therefore the criterion is exceeded.

Thus a single measurement greater than the MDMT, whether obtained by adhoc, maximum/minimum, or continuous measurement is sufficient to document an exceedance of this criterion. However, an exceedance will be judged a violation of criteria subject to the following limitations.

Because of concerns with regard to representativeness, accuracy, and precision of adhoc temperature measurements obtained with an alcohol or mercury thermometer, a single measurement of this type will not be sufficient for judging compliance with instantaneous criteria (e.g., MDMT). Thus Idaho will not use single BURP water temperature measurements by themselves to judge violation of water quality standards.

If two or more measurements of temperature are independent and agree with one another the chance of error is reduced. Thus single measurements may be corroborated by other independent temperature data. Two or more adhoc measurements from the same location on different days showing exceedance will be sufficient corroborating evidence, as will additional data of a different type (e.g., continuous or max/min).

Multiple adhoc, max/min, continuous measurements, or a combination from the same stream reach can be combined and subjected to the 10% exceedance policy to judge violation of water quality standards. (See WBAG, Second Edition Section 5-2 and Attachment A, [Grafe et al. 2002]).

Maximum Daily Average Temperature

Normally a daily average requires at least a minimum and maximum in the same day to be calculated. However, Idaho's bull trout standard specifically requires six evenly spaced measurements in a 24-hour period. That requirement is applied to all metrics that are based on daily averages (i.e., MDAT as well as MWAT which is made up of seven consecutive daily averages).

Multiple daily averages are subject to the 10% exceedance policy to judge violation of water quality standards.

Maximum Weekly Maximum Temperature and Maximum Weekly Average Temperature

These weekly or seven day metrics require a minimum of seven consecutive daily maximums, or daily averages, each subject to the same limitations set out above.

Frequency of exceedance for these compound metrics is based on the final calculated metric, not a frequency of exceedance of it's components (i.e. one MWMT above criteria does not require nor imply seven daily maximums above criteria).

9. Intermittent waters

Intermittent waters naturally occur throughout Idaho. Some 33,000 miles are identified by the U.S. Geological Survey in its National Hydrography Database as intermittent in Idaho. Per Idaho Water Quality Standards, if a surface water body is intermittent (i.e., has zero flow at some time during most years), then numeric criteria apply only during periods of "optimal" flow (see WQS § 003.51, 070.07)." For bioassessment purposes DEQ does not believe its current assessment indices are appropriate for the assessment of intermittent waters. Further, at this time DEQ does not have a specific process for monitoring or assessing intermittent waters. Thus, DEQ expects that a large portion of these waters are unassessed and can be found in Section 3 of the Integrated Report. These waters are included in AUs and are examined in detail during the SBA and TMDL process.

10. Springs and Lake Outlets

Assessment of springs and lake outlets were dealt with on a case-by-case basis at the discretion of the assessor. Generally springs and lake outlets fundamentally differ biologically from free flowing streams and therefore require a unique assessment tool. Multimetric macroinvertebrate indexes such as the Stream Macroinvertebrate Index are not suitable for use in some atypical, natural stream types. Macroinvertebrate communities from spring-fed streams and lake outlets may have very low natural diversities and would receive very low index scores, even under pristine conditions. (See Maret et al. 2001, Maret 1997, Anderson and Anderson 1995), (Mebane, C. A. 2001.)

11. Wetlands

DEQ does not have an assessment process in place for assessing the beneficial uses or determining if water quality standards are met in wetland settings. While wetlands are protected by the CWA, DEQ has chosen not to incorporate them into any category of the 2002/2003 Integrated Report.

12. Tribal waters

Waters on the 1998 303(d) List and in the 2002/2003 Integrated Report may be wholly within Indian reservations, on lands held by tribal members subject to a restriction on alienation, and/or held by the United States in trust for Indian Tribes. DEQ's actions with respect to the integrated report and such waters do not constitute a determination, waiver, admission, or statement on the part of the state of Idaho with respect to jurisdiction over such waters. AUs were edited to end and or begin at the Reservation Boundary. The status of the AUs within the Reservation boundary was maintained with respect to the 1998 303(d) unless there was an EPA approved TMDL.

13. Prioritization for Subbasin Assessment and Total Maximum Daily Load Development

DEQ is working under a settlement agreement. This agreement sets a schedule for the development of TMDLs based on Hydrologic Unit, segment, and pollutant through 2007. When DEQ developed and prioritized the schedule, they considered severity of pollution and the uses to be made of such waters.

For purposes of TMDL priorities in Section 5 of the integrated report, those TMDLs due in 2003 and 2004 are high, 2005-2006 medium, and 2007 and beyond low. DEQ resources are allocated in accordance with this settlement schedule. AUs added to the 2002/2003 Report will be scheduled for TMDL development starting in 2008. This does not mean all the AUs added during this cycle would be done in 2008, merely, they will be scheduled for 2008 and beyond. However, the settlement agreement contains a mechanism for DEQ to complete TMDLs sooner for newly listed waters. In determining whether to assign a higher priority to newly listed waters, DEQ may consider whether resources are available and the local Watershed Advisory Group and Basin Advisory Group for that TMDL are in agreement. Modifications to the schedule will be done on a case by case basis.

14. Wilderness and Roadless

Two groups of waters are going to be added to Section 1 of the Integrated Report; AUs attaining water quality standard and no use threatened. These are AUs that fall entirely within a designated wilderness or inventoried roadless area. These two groups of waters best exemplify DEQ's "natural background condition" water quality standard (WQS §58.01.02.053.03). Waters falling under this condition exhibit "no measurable change in the physical, chemical, biological, or radiological conditions existing in a water body without human sources of pollution within the watershed."(WQS §58.01.02.003.65). There are a few important concepts embedded in this standard, they are: 1) pollution controls are intended to address human-caused exceedances and

impacts; 2) natural background condition does not necessarily equal pristine; 3) water quality standards speak to human affects to water quality, not acts of nature or natural physical or biological processes; 4) TMDLs deal with human caused impacts or impairment; and 5) changes to water quality due to humans should be small or diminimus and not adversely affect the beneficial use.

DEQ believes waters within designated wilderness and inventoried roadless areas meet the intent of natural background conditions by virtue of the fact there has been little to no significant human management to cause changes in water quality or affect beneficial uses. The reason wilderness was designated is because it met this low human impact criteria. For roadless, DEQ used the two most restrictive criteria; those recommended for wilderness where road building is prohibited (1-B1 USFS); and those where road building is prohibited (1-B USFS). Waters within these two groups, wilderness and roadless, are found in Section 1 of the Integrated Report. DEQ is soliciting information that would indicate why a particular water should not be included here. This data or information would need to demonstrate there is a human impact that is, or might be impairing water quality. In the absence of such data, DEQ will proceed with the presumption that wilderness and roadless waters, as described above, are unimpaired and place them in Section 1 of the integrated report. The number of assessment units (AUs) qualified for the wilderness policy are 235 out of 5,360 or 4.4% percent of the state's waters. This policy is not applied to previously listed waters, thus there are not de-listings associated with this policy, and the policy only applies to waters that DEQ has not yet assessed (thus, no data waters) or has assessed as fully supporting and falls within the roadless/wilderness definition above. Further, the policy only applies to Assessment Units that are fully (100%) within wilderness areas and the top 2 categories of roadless areas, which addresses concerns about waters that briefly flow through wilderness or roadless areas. Most of these Assessment Units are found in the Selway-Bitteroot and Frank Church River of No Return Wilderness. This amounts to 6.5% of the Assessment Units in Idaho.

15. Wildlife and Aesthetics Beneficial Uses

Wildlife and aesthetics beneficial uses are considered not assessed for all AUs in the integrated report with the sole exception of the 313 AUs that fall wholly within wilderness or roadless areas as stated in 14 above.

16. Pollutants and Cause(s)

Failing to meet a numeric or narrative water quality criteria or impair a beneficial use, will be cause to put that AU into Section 5, water quality limited, requiring a TMDL. If that AU failed a specific numeric criteria i.e. temperature, then the cause or pollutant for that listing is thermal modification. Similarly failure to meet a narrative i.e. sediment, would also put that AU into Section 5. The important point here is that data exists to inform the assessor what the cause or causes are.

DEQ relies heavily on biology to gauge narrative and numeric criteria. Since DEQ does not collect data to evaluate every possible numeric and narrative criteria, the assessor in many instances will not know the exact cause of the impairment, merely that impairment exists. As an

example, an AU found to be not supporting it's Aquatic Life Beneficial Use would be placed in Section 5, with the cause stated as "UNKNOWN". EPA sent out a clarification memo on April 4, 2002, for the Integrated Report Guidance stating: "When existing and readily available data and information (biological, chemical or physical) are sufficient to determine that a pollutant has caused, is suspected of causing or is projected to cause the impairment, the AU should be listed in Category 5." The memo further clarifies that "Only when the state determines that existing data and information (biological, chemical or physical) are **insufficient** to support an attainment determination, can an AU be listed in Category 3." DEQ discourages assessors from making educated guesses on causes since changing a cause after initial listing can be costly in terms of time and resources. DEQ feels it is reasonable and prudent to leave the cause, as unknown, until it can be accurately determined in the subbasin assessment phase of the TMDL.

17. De-Listed Waters

Assessment units on the 1998 list that were there from the original 1994 EPA promulgation, may have been de-listed based on newer in-stream data. However all waters from the 1998 list have been are carried over. Then new data was considered. If it met tier I (QA/QC), and it shows WQS are met and there is no tier I data showing impairment, then the AU was moved to Category 2. These waters now reside in Section 2, Waters Supporting Some Uses, of the Integrated Report, waters supporting some uses. The justification for this is addressed in 1 above. Documentation for this has been input into ADB as an administrative record of decision.

18. Idaho Water Quality Standards: Numeric and Narrative

Specific language detailing how narrative and numeric water quality standards are interpreted in assessments for the integrated report are detailed in the WBAG II. These policies were adhered to for all assessments. DEQ largely relies on Beneficial Use Reconnaissance Program monitoring data and biological assessments to demonstrate compliance with the state's narrative water quality standards. These standards are written such that the waters of the state shall be free from pollutants impairing beneficial uses. Biological assessments directly measure the beneficial uses that the narrative standards were written to protect so that a full support decision based on the WBAG II largely satisfies compliance with these narrative standards.

Numeric standards are somewhat different and a detailed discussion of the state's approach to assessing these standards was published in the WBAG II. Even among the numeric standards, temperature presents some unique challenges and is examined in Section 8 of this listing guidance

"Due to natural variability in water quality, variability in translation to a biological response, and possible measurement errors, DEQ does not interpret the numeric criteria for conventional pollutants as a sharp line between impairment and non-impairment. Rather, there is a gray-zone where there may or may not be an impairment.

Because criteria are developed conservatively, DEQ believes this gray-zone falls above the set criteria levels. By policy DEQ thus establishes a zone up to 10 percent criteria exceedance in which the assessor has flexibility to consider other evidence to determine a violation. This

numeric criteria evaluation policy of DEQ is consistent with guidance from EPA (EPA 1997) and other states in EPA Region 10 (WDOE 1997), WABGII, 2002."

While this policy deals solely with frequency, DEQ does recognize that magnitude and duration of any criteria exceedance is also important to the biological response and ideally should be considered as well. Magnitude, duration, and frequency are typically not independent of one another. Thus, evaluating frequency alone, while it can have its limitations, is a practical gage of criteria exceedance and one that is supported by national EPA policy.

19. DEQ proposes the following waters in Idaho be removed from the current 303(d) list (Section 5), or not listed, for temperature as a pollutant. Reason's for delisting or not listing include:

1) Idaho Water Quality Standards natural background provisions (IDAPA §58.01.02.003.65 and §58.01.02.053.3);

2) Data quality does not meet minimums in Idaho's Waterbody Assessment Guidance II, i.e. more than a single grab sample temperature measurement needed (Chapter 5); or

3) Frequency of exceedance less than assessment threshold, WBAGII allows up to 10% exceedance of numeric criteria if the bio-assessment indicators are good (Chapter 5).

The following lists are not comprehensive, but rather a sample of waters that have been identified to fall under one or more of the above three reasons for removal from the 303(d) list, or not be listed. Idaho thus reserve's the right to propose additional waters be removed from the 303(d) list, or not listed, for these reasons in the future.

Waters in Idaho currently listed for temperature for which that Idaho proposes temperature be dropped as a pollutant either because1) the human caused impairment is below allowable temperature increase, or 2) the temperature data used for listing was insufficient. Since these waters are only listed for temperature they should be removed from the 303(d) list.

Stream name	**WBID**	**Currently Listed (Yes/No)**	**Listing Data Source**	**Reason for Delist**
Lochsa River	17060303	Yes	USFS	Less than de-minimus increase, HDR Modeling Report
Worm Creek	16010202	Yes	DEQ	Data quality, single temperature measurement
Santa Creek	17010304	Yes	DEQ	Data quality, single temperature measurement
Hot Creek	17040213	Yes	DEQ	Data quality, single temperature measurement

Waters in Idaho currently listed which Idaho proposes be removed from the 303(d) list because there are no human causes of impairment.

Stream name	WBID	Currently Listed (Yes/No)	Listing Data Source(s)	Reason for Delist
Storm Creek	17060303	Yes	USFS	apriori natural
Boulder Creek	17060303	Yes	USFS	apriori natural
Fish Creek	17060303	Yes	USFS	apriori natural
Smithie Fork	17040217	Yes	USFS, DEQ	apriori natural

Waters in Idaho that were considered for 303(d) listing but should not be listed.

Stream name	WBID	Currently Listed (Yes/No)	Data Source(s)	Reason for Not Listing
Weir Creek	17060303	No	DEQ	apriori natural
Robin Creek	17060303	No	DEQ	apriori natural
Selway River	17060301,2	No	DEQ, USFS	apriori natural, less than 10% exceedance
Bear Creek	17060301	No	DEQ, USGS	apriori natural, less than 10% exceedance
Running Creek	17060301	No	DEQ	apriori natural, less than 10% exceedance
Moose Creek	17060302	No	DEQ, USGS	apriori natural, less than 10% exceedance
MF Salmon	17060205,6	No	DEQ, USFS	apriori natural, less than 10% exceedance
Indian Cr	17060205	No	DEQ	apriori natural, less than 10% exceedance
Big Creek	17060206	No	DEQ	apriori natural, less than 10% exceedance

Public Participation

DEQ is seeking public comment on the assessment decisions made for the 2002/2003 Integrated Report. Data and/or site-specific comments are welcome and will be evaluated prior to final submission of the integrated report to EPA. Below is an overview of the milestones to date and anticipated project completion of the integrated report.

March 15, 2002: 45-Day Call for Public Data; Open Interactive Integrated Report Web Site

April 30, 2002: Close Call for Data; Begin Assessment of Water Bodies for 2002 Integrated Report

June 2, 2003: Draft Integrated Report Completed; Begin 60 Day Public

August 4, 2003: Close Public Comment Period on Draft Report

September 8, 2003: Final Integrated Report Delivered to EPA

How to Comment

DEQ will make available to the public, via our web site a downloadable list in Adobe™ portable document format (PDF) and an interactive map service to retrieve the locations of listed segments in relation to major landmarks such as roads, rivers, and county lines. This map service will also allow the public to comment on specific water bodies and attach relevant comments. The comment tool may be found on DEQ's web site: www.deq.state.id.us or www.deq.state.id.us/water/water1.htm#surface_water

Section 1: Rivers Supporting All Uses

Basin	Segment Name	Length
Clearwater		
HUC	*17060301*	
ID17060301CL044_02	Bad Luck Creek - source to mouth	21.82
ID17060301CL047_02	Bear Creek - Cub Creek to mouth	13.01
ID17060301CL047_04	Bear Creek - Cub Creek to mouth	4.92
ID17060301CL053_02	Bear Creek - source to Wahoo Creek	18.56
ID17060301CL052_02	Bear Creek - Wahoo Creek to Cub Creek	21.72
ID17060301CL052_03	Bear Creek - Wahoo Creek to Cub Creek	8.65
ID17060301CL003_02	Bitch Creek - source to mouth	10.31
ID17060301CL049_03	Brushy Fork Creek - source to mouth	2.81
ID17060301CL049_02	Brushy Fork Creek - source to mouth	20.66
ID17060301CL018_03	Burnt Knob Creek - source to mouth	1.56
ID17060301CL018_02	Burnt Knob Creek - source to mouth	17.06
ID17060301CL040_02	Canyon Creek - source to mouth	37.69
ID17060301CL040_03	Canyon Creek - source to mouth	1.37
ID17060301CL041_02	Cooper Creek - source to mouth	10.78
ID17060301CL041_03	Cooper Creek - source to mouth	0.72
ID17060301CL057_02	Cow Creek - source to mouth	3.16
ID17060301CL013_02	Crooked Creek - source to mouth	16.34
ID17060301CL013_03	Crooked Creek - source to mouth	3.49
ID17060301CL048_03	Cub Creek - Brushy Fork Creek to mouth	4.29
ID17060301CL048_02	Cub Creek - Brushy Fork Creek to mouth	5.82

Basin	Segment Name	Length
ID17060301CL050_02	Cub Creek - source to Brushy Fork Creek	24.32
ID17060301CL005_02	Ditch Creek - source to mouth	19.71
ID17060301CL005_03	Ditch Creek - source to mouth	2.01
ID17060301CL058_02	Dog Creek - source to mouth	9.26
ID17060301CL012_02	Eagle Creek - source to mouth	27
ID17060301CL006_02	Elk Creek - source to mouth	10.13
ID17060301CL020_02	Flat Creek - source to mouth	14.62
ID17060301CL045_02	Gardner Creek - source to mouth	9.82
ID17060301CL007_03	Goat Creek - source to mouth	8.57
ID17060301CL007_02	Goat Creek - source to mouth	36.18
ID17060301CL054_02	Granite Creek - source to mouth	6.92
ID17060301CL026_02	Hidden Creek - source to mouth	6.72
ID17060301CL036_03	Indian Creek - source to mouth	7.49
ID17060301CL036_02	Indian Creek - source to mouth	36.17
ID17060301CL033_03	Lazy Creek - source to mouth	1.37
ID17060301CL033_02	Lazy Creek - source to mouth	11.59
ID17060301CL017_04	Little Clearwater River - source to Flat Creek	3.12
ID17060301CL017_03	Little Clearwater River - source to Flat Creek	1.32
ID17060301CL017_02	Little Clearwater River - source to Flat Creek	13.98
ID17060301CL015_04	Little Clearwater River- Flat Creek to mouth	6.02
ID17060301CL015_02	Little Clearwater River- Flat Creek to mouth	8.59
ID17060301CL002_02	Magpie Creek - source to mouth	4.53
ID17060301CL046_02	North Star Creek - source to mouth	7.25
ID17060301CL043_02	Paloma Creek - source to mouth	6.74

Basin	Segment Name	Length
ID17060301CL051_02	Paradise Creek - source to mouth	31.15
ID17060301CL056_02	Pettibone Creek - source to mouth	30.91
ID17060301CL056_03	Pettibone Creek - source to mouth	9.82
ID17060301CL019_03	Salamander Creek - source to mouth	4.22
ID17060301CL037_02	Schofield Creek - source to mouth	12.99
ID17060301CL001_02	Selway River - Bear Creek to Moose Creek	19.87
ID17060301CL022_03	Selway River - confluence of Hidden and Surprise Creeks to D	7.38
ID17060301CL014_05	Selway River - Deep Creek to White Cap Creek	9.24
ID17060301CL004_02	Selway River - White Cap Creek to Bear Creek	22.97
ID17060301CL004_05	Selway River - White Cap Creek to Bear Creek	16.18
ID17060301CL016_02	Short Creek - source to mouth	13.09
ID17060301CL038_02	Snake Creek - source to mouth	10.56
ID17060301CL030_03	Storm Creek - source to mouth	3.27
ID17060301CL025_02	Stripe Creek - source to mouth	4.4
ID17060301CL027_02	Surprise Creek - source to mouth	13.63
ID17060301CL024_02	Swet Creek - source to mouth	12.95
ID17060301CL023_03	Three Lakes Creek - source to mouth	1.66
ID17060301CL023_02	Three Lakes Creek - source to mouth	18.67
ID17060301CL032_02	Vance Creek - source to mouth	6.16
ID17060301CL055_02	Wahoo Creek - source to mouth	14.2
ID17060301CL055_03	Wahoo Creek - source to mouth	5.51
ID17060301CL039_04	White Cap Creek - Canyon Creek to mouth	7.69
ID17060301CL039_03	White Cap Creek - Canyon Creek to mouth	3.09
ID17060301CL039_02	White Cap Creek - Canyon Creek to mouth	36.55

Basin	Segment Name		Length
ID17060301CL042_02	White Cap Creek - source to Canyon Creek		49.06
ID17060301CL042_03	White Cap Creek - source to Canyon Creek		12.71
ID17060301CL028_03	Wilkerson Creek - Storm Creek to mouth		4.56
ID17060301CL028_02	Wilkerson Creek - Storm Creek to mouth		15.06
Summary for 'HUC' = 17060301 (72 detail records)		**Sum**	*905.71*
HUC	*17060302*		
ID17060302CL032_02	Battle Creek - source to mouth		13.76
ID17060302CL036_03	Cedar Creek - source to mouth		5.14
ID17060302CL036_02	Cedar Creek - source to mouth		27.04
ID17060302CL034_02	Chute Creek - source to mouth		2.88
ID17060302CL035_02	Dead Elk Creek - source to mouth		3.92
ID17060302CL038_02	Double Creek - source to mouth		15.46
ID17060302CL028_04	East Fork Moose Creek - Cedar Creek to Moose Creek		14.05
ID17060302CL028_02	East Fork Moose Creek - Cedar Creek to Moose Creek		27.94
ID17060302CL033_02	East Fork Moose Creek - source to Cedar Creek		45.89
ID17060302CL033_03	East Fork Moose Creek - source to Cedar Creek		11.67
ID17060302CL031_02	Elbow Creek - source to mouth		10.86
ID17060302CL039_02	Fitting Creek - source to mouth		4.88
ID17060302CL029_02	Freeman Creek - source to mouth		3.34
ID17060302CL047_02	Lizard Creek - Lizard Lakes to mouth		7.36
ID17060302CL037_02	Maple Creek - source to mouth		12.69
ID17060302CL025_02	Marten Creek - source to mouth		33.61
ID17060302CL025_03	Marten Creek - source to mouth		5.22
ID17060302CL048_02	Meeker Creek - source to mouth		9.46

Basin	Segment Name	Length
ID17060302CL024_03	Mink Creek - source to mouth	4.52
ID17060302CL024_02	Mink Creek - source to mouth	14.71
ID17060302CL030_02	Monument Creek - source to mouth	7.17
ID17060302CL027_02	Moose Creek - East Fork Moose Creek to mouth	5.52
ID17060302CL027_05	Moose Creek - East Fork Moose Creek to mouth	3.73
ID17060302CL040_05	North Fork Moose Creek - Rhoda Creek to mouth	7.26
ID17060302CL040_02	North Fork Moose Creek - Rhoda Creek to mouth	29.68
ID17060302CL040_03	North Fork Moose Creek - Rhoda Creek to mouth	0.57
ID17060302CL042_03	North Fork Moose Creek - source to West Fork Moose Creek	2.88
ID17060302CL042_02	North Fork Moose Creek - source to West Fork Moose Creek	24.65
ID17060302CL041_02	North Fork Moose Creek - West Moose Creek to Rhoda Creek	10.89
ID17060302CL041_04	North Fork Moose Creek - West Moose Creek to Rhoda Creek	11.37
ID17060302CL023_02	Otter Creek - source to mouth	18.18
ID17060302CL046_03	Rhoda Creek - source to Wounded Doe Creek	4.88
ID17060302CL046_02	Rhoda Creek - source to Wounded Doe Creek	32.32
ID17060302CL044_04	Rhoda Creek - Wounded Doe Creek to mouth	3.18
ID17060302CL044_02	Rhoda Creek - Wounded Doe Creek to mouth	2.86
ID17060302CL049_02	Three Links Creek - source to mouth	40.57
ID17060302CL049_04	Three Links Creek - source to mouth	4.19
ID17060302CL049_03	Three Links Creek - source to mouth	10.18
ID17060302CL026_02	Trout Creek - source to mouth	12.28
ID17060302CL043_03	West Fork Moose Creek - source to mouth	4.76
ID17060302CL043_02	West Fork Moose Creek - source to mouth	35.65
ID17060302CL045_02	Wounded Doe Creek - source to mouth	22.86

Basin	Segment Name		Length
ID17060302CL045_03	Wounded Doe Creek - source to mouth		4.99
Summary for 'HUC' = 17060302 (43 detail records)		**Sum**	*575.02*
HUC	*17060303*		
ID17060303CL031_02	Big Flat Creek - source to mouth		10.59
ID17060303CL027_03	Big Sand Creek - Hidden Creek to mouth		7.77
ID17060303CL029_02	Big Sand Creek - source to Hidden Creek		23.2
ID17060303CL010_03	Boulder Creek - source to mouth		4.48
ID17060303CL016_02	Fish Lake Creek - source to mouth		23.74
ID17060303CL030_03	Hidden Creek - source to mouth		3.47
ID17060303CL030_02	Hidden Creek - source to mouth		13.8
ID17060303CL007_02	Old Man Creek - source to mouth		43.08
ID17060303CL015_02	Sponge Creek - source to Fish Lake Creek		22.38
ID17060303CL018_02	Warm Springs Creek - source to Wind Lakes Creek		23.45
ID17060303CL019_03	Wind Lakes Creek - source to mouth		4.83
Summary for 'HUC' = 17060303 (11 detail records)		**Sum**	*180.79*
HUC	*17060305*		
ID17060305CL015_02	Gospel Creek - source to mouth		19.35
ID17060305CL021_02	Hagen Creek - source to mouth		11.26
ID17060305CL018_02	Johns Creek - source to Moores Creek		17.66
ID17060305CL018_03	Johns Creek - source to Moores Creek		3.6
ID17060305CL019_02	Moores Creek - source to mouth		8.76
ID17060305CL020_02	Square Mountain Creek - source to mouth		5.04
ID17060305CL016_02	West Fork Gospel Creek - source to mouth		5.93
Summary for 'HUC' = 17060305 (7 detail records)		**Sum**	*71.600*

Basin	Segment Name		Length
Summary for 'Basin' = Clearwater (133 detail records)		**Sum**	*1733.1*

Salmon

HUC 17060101

ID17060101SL012_02	Clarks Fork - source to mouth		13.39
ID17060101SL011_02	East Fork Sheep Creek - source to mouth		5.24
ID17060101SL006_02	Granite Creek - source to mouth		18.58
ID17060101SL009_02	Sheep Creek - confluence of West and East Fork Sheep Creeks		11.77
ID17060101SL010_02	West Fork Sheep Creek - source to mouth		6.16
Summary for 'HUC' = 17060101 (5 detail records)		**Sum**	*55.140*

HUC 17060201

ID17060201SL080_02	Alpine Creek - source to mouth		10.32
ID17060201SL067_02	Redfish Lake Creek - source to Redfish Lake		14.39
Summary for 'HUC' = 17060201 (2 detail records)		**Sum**	*24.710*

HUC 17060205

ID17060205SL036_02	Bell Creek - source to mouth		5.06
ID17060205SL004_02	Big Cottonwood Creek - source to mouth		9.07
ID17060205SL070_02	Cabin Creek - source to mouth		18.01
ID17060205SL065_03	Cottonwood Creek - source to mouth		1.82
ID17060205SL065_02	Cottonwood Creek - source to mouth		18.42
ID17060205SL005_02	Dynamite Creek - source to mouth		19.41
ID17060205SL005_03	Dynamite Creek - source to mouth		2.26
ID17060205SL064_03	East Fork Mayfield Creek - source to mouth		8.65
ID17060205SL064_02	East Fork Mayfield Creek - source to mouth		31.51
ID17060205SL008_03	Elkhorn Creek - source to mouth		1.48

Basin	Segment Name	Length
ID17060205SL006_02	Indian Creek - source to mouth	91.78
ID17060205SL006_03	Indian Creek - source to mouth	14.41
ID17060205SL047_02	Little Loon Creek - source to mouth	53.54
ID17060205SL047_03	Little Loon Creek - source to mouth	7.03
ID17060205SL048_05	Loon Creek - Cabin Creek to mouth	11.19
ID17060205SL050_04	Loon Creek - Cottonwood Creek to Warm Springs Creek	2.6
ID17060205SL050_02	Loon Creek - Cottonwood Creek to Warm Springs Creek	4.51
ID17060205SL051_04	Loon Creek - Shell Creek to Cottonwood Creek	1.68
ID17060205SL051_02	Loon Creek - Shell Creek to Cottonwood Creek	1.07
ID17060205SL059_03	Loon Creek - source to Pioneer Creek	2.63
ID17060205SL059_02	Loon Creek - source to Pioneer Creek	18.67
ID17060205SL049_05	Loon Creek - Warm Springs Creek to Cabin Creek	3.42
ID17060205SL002_03	Marble Creek - source to mouth	4.16
ID17060205SL001_02	Middle Fork Salmon River - confluence of Bear Valley Creek a	194.53
ID17060205SL001_06	Middle Fork Salmon River - confluence of Bear Valley Creek a	59.34
ID17060205SL001_03	Middle Fork Salmon River - confluence of Bear Valley Creek a	5.5
ID17060205SL046_02	North Fork Sheep Creek - source to mouth	4.37
ID17060205SL060_03	Pioneer Creek - source to mouth	2.32
ID17060205SL007_03	Pistol Creek - source to mouth	21.35
ID17060205SL007_04	Pistol Creek - source to mouth	4.87
ID17060205SL035_04	Rapid River - Bell Creek to mouth	5.71
ID17060205SL035_02	Rapid River - Bell Creek to mouth	14.04
ID17060205SL037_04	Rapid River - Lucinda Creek to Bell Creek	2.21
ID17060205SL044_03	Sheep Creek - confluence of North and South Fork Sheep Creek	2.02

Basin	Segment Name		Length
ID17060205SL044_02	Sheep Creek - confluence of North and South Fork Sheep Creek		1.01
ID17060205SL052_02	Shell Creek - source to mouth		4.43
ID17060205SL033_03	Soldier Creek - source to mouth		5.43
ID17060205SL033_02	Soldier Creek - source to mouth		20.51
ID17060205SL066_02	South Fork Cottonwood Creek - source to mouth		7.29
ID17060205SL045_02	South Fork Sheep Creek - source to mouth		6.56
ID17060205SL009_04	Sulphur Creek - source to mouth		11.11
ID17060205SL009_03	Sulphur Creek - source to mouth		1.81
ID17060205SL003_02	Trail Creek - source to mouth		28.3
ID17060205SL068_02	Trapper Creek - source to mouth		28.41
ID17060205SL068_03	Trapper Creek - source to mouth		1.5
ID17060205SL069_03	Warm Springs Creek - source to Trapper Creek		3.2
ID17060205SL067_04	Warm Springs Creek - Trapper Creek to mouth		11.02
Summary for 'HUC' = 17060205 (47 detail records)		**Sum**	*779.21*
HUC	*17060206*		
ID17060206SL008_03	Beaver Creek - source to mouth		8.25
ID17060206SL008_02	Beaver Creek - source to mouth		35.53
ID17060206SL003_05	Big Creek - source to mouth		23.58
ID17060206SL007_02	Big Ramey Creek - source to mouth		33.97
ID17060206SL007_03	Big Ramey Creek - source to mouth		3.36
ID17060206SL004_03	Cabin Creek - source to mouth		1.28
ID17060206SL004_02	Cabin Creek - source to mouth		26.55
ID17060206SL030_03	Camas Creek - source to South Fork Camas Creek		3.77
ID17060206SL005_02	Cave Creek - source to mouth		14.99

Basin	Segment Name	Length
ID17060206SL005_03	Cave Creek - source to mouth	2.9
ID17060206SL006_02	Crooked Creek - source to mouth	31.23
ID17060206SL006_03	Crooked Creek - source to mouth	6.9
ID17060206SL045_02	Jenny Creek - source to mouth	2.01
ID17060206SL011_02	Little Marble Creek - source to mouth	13.92
ID17060206SL012_04	Monumental Creek - source to mouth	14.87
ID17060206SL002_02	Papoose Creek - source to mouth	28.93
ID17060206SL049_02	Roaring Creek - source to mouth	8.75
ID17060206SL015_02	Rush Creek - source to mouth	81.22
ID17060206SL015_03	Rush Creek - source to mouth	3.02
ID17060206SL015_04	Rush Creek - source to mouth	12.65
ID17060206SL019_02	Sheep Creek - source to mouth	25.02
ID17060206SL013_02	Snowslide Creek - source to mouth	19.66
ID17060206SL013_03	Snowslide Creek - source to mouth	3.01
ID17060206SL029_02	South Fork Camas Creek - source to mouth	21.61
ID17060206SL029_03	South Fork Camas Creek - source to mouth	2.18
ID17060206SL016_02	Two Point Creek - source to mouth	4.91
ID17060206SL047_02	Waterfall Creek - source to mouth	22.85
ID17060206SL024_02	West Fork Camas Creek - source to mouth	44.5
ID17060206SL014_02	West Fork Monumental Creek - source to mouth	20.28
ID17060206SL014_03	West Fork Monumental Creek - source to mouth	6.49
ID17060206SL037_02	Yellowjacket Creek - Jenny Creek to mouth	6.56
ID17060206SL037_03	Yellowjacket Creek - Jenny Creek to mouth	4.32
Summary for 'HUC' = 17060206 (32 detail records)	**Sum**	*539.07*

Basin	Segment Name	Length
HUC	17060207	
ID17060207SL071_02	Arlington Creek - source to mouth	3.7
ID17060207SL072_02	Bull Creek - source to mouth	12.68
ID17060207SL058_02	Cache Creek - source to mouth	9.73
ID17060207SL053_02	Center Creek - source to mouth	3.82
ID17060207SL024_04	Chamberlain Creek - confluence of Rim and South Fork Chamber	5.49
ID17060207SL024_02	Chamberlain Creek - confluence of Rim and South Fork Chamber	26.59
ID17060207SL024_03	Chamberlain Creek - confluence of Rim and South Fork Chamber	5.55
ID17060207SL020_02	Chamberlain Creek - Game Creek to McCalla Creek	35.24
ID17060207SL020_04	Chamberlain Creek - Game Creek to McCalla Creek	11.94
ID17060207SL019_02	Chamberlain Creek - McCalla Creek to mouth	4.28
ID17060207SL067_02	Crooked Creek - Lake Creek to mouth	22.12
ID17060207SL032_02	Disappointment Creek - source to mouth	11.47
ID17060207SL032_03	Disappointment Creek - source to mouth	4.17
ID17060207SL045_03	East Fork Reynolds Creek - source to mouth	1.48
ID17060207SL009_02	Fivemile Creek - source to mouth	27.61
ID17060207SL025_02	Flossie Creek - source to mouth	7.75
ID17060207SL022_03	Game Creek - source to mouth	2.19
ID17060207SL022_02	Game Creek - source to mouth	11.05
ID17060207SL051_02	Hamilton Creek - source to mouth	36.33
ID17060207SL051_03	Hamilton Creek - source to mouth	7.17
ID17060207SL049_02	Harrington Creek - source to mouth	16.86
ID17060207SL041_02	Horse Creek - Little Horse Creek to mouth	19.98
ID17060207SL034_02	Hungry Creek - source to mouth	3.83

Basin	Segment Name	Length
ID17060207SL070_03	Lake Creek - source to mouth	3.43
ID17060207SL070_04	Lake Creek - source to mouth	5.9
ID17060207SL029_03	Lodgepole Creek - source to mouth	3.56
ID17060207SL029_02	Lodgepole Creek - source to mouth	19.39
ID17060207SL075_02	Long Meadow Creek - source to mouth	8.77
ID17060207SL030_04	McCalla Creek - source to mouth	2.79
ID17060207SL030_03	McCalla Creek - source to mouth	8.78
ID17060207SL030_02	McCalla Creek - source to mouth	35.91
ID17060207SL028_02	Moose Creek - source to mouth	12.68
ID17060207SL028_03	Moose Creek - source to mouth	1.86
ID17060207SL036_02	Peak Creek - source to mouth	9.17
ID17060207SL057_02	Prospector Creek - source to mouth	3.79
ID17060207SL021_02	Queen Creek - source to mouth	8.93
ID17060207SL060_02	Rainey Creek - source to mouth	6.86
ID17060207SL046_02	Reynolds Creek - source to mouth	4.5
ID17060207SL014_02	Richardson Creek - source to mouth	14.51
ID17060207SL026_02	Rim Creek - source to mouth	5.25
ID17060207SL050_02	Sabe Creek - Hamilton Creek to mouth	18.3
ID17060207SL052_03	Sabe Creek - source to Hamilton Creek	5.16
ID17060207SL059_02	Salt Creek - source to mouth	8.18
ID17060207SL027_02	South Fork Chamberlain Creek - source to mouth	5.75
ID17060207SL033_02	Starvation Creek - source to mouth	7.25
ID17060207SL023_02	West Fork Game Creek - source to mouth	11.86
ID17060207SL047_02	West Horse Creek - source to mouth	19.11

Basin	Segment Name		Length
ID17060207SL031_02	Whimstick Creek - source to mouth		43.62
ID17060207SL031_03	Whimstick Creek - source to mouth		7.46
ID17060207SL076_04	Wind River - Meadow Creek to Salmon River		2.56
ID17060207SL076_03	Wind River - source to mouth		6.7
Summary for 'HUC' = 17060207 (51 detail records)		**Sum**	*583.06*
HUC	*17060208*		
ID17060208SL035_02	Porphyry Creek - source to mouth		34.17
ID17060208SL035_03	Porphyry Creek - source to mouth		4.09
ID17060208SL030_02	Tamarack Creek - 1st and 2nd order		15.53
Summary for 'HUC' = 17060208 (3 detail records)		**Sum**	*53.789*
Summary for 'Basin' = Salmon (140 detail records)		**Sum**	*2034.9*
Southwest			
HUC	*17050120*		
ID17050120SW007_02	Baron Creek - source to mouth		19.63
ID17050120SW006_02	Goat Creek - source to mouth		13.48
Summary for 'HUC' = 17050120 (2 detail records)		**Sum**	*33.109*
Summary for 'Basin' = Southwest (2 detail records)		**Sum**	*33.109*
		Grand Total	*3801.230*

Section 2: Lakes Supporting Some Uses

Basin	Segment Name		Area
Bear			
HUC	*16010204*		
ID16010204BR006_02a	First Creek		8.65
ID16010204BR006_02b	Second Creek		5.19
Summary for 'HUC' = 16010204 (2 detail records)		**Sum**	*13.839*
Summary for 'Basin' = Bear (2 detail records)		**Sum**	*13.83999*
Clearwater			
HUC	*17060305*		
ID17060305CL052L_00	Lucas Lake		1.028
Summary for 'HUC' = 17060305 (1 detail record)		**Sum**	*1.0279*
Summary for 'Basin' = Clearwater (1 detail record)		**Sum**	*1.027999*
Panhandle			
HUC	*17010214*		
ID17010214PN009L_0L	Spirit Lake		1541.93
Summary for 'HUC' = 17010214 (1 detail record)		**Sum**	*1541.9*
HUC	*17010215*		
ID17010215PN006_02	Priest Lake		36.07
Summary for 'HUC' = 17010215 (1 detail record)		**Sum**	*36.069*
HUC	*17010303*		
ID17010303PN033_03	Fernan Lake		341
Summary for 'HUC' = 17010303 (1 detail record)		**Sum**	*341*
Summary for 'Basin' = Panhandle (3 detail records)		**Sum**	*1919.000*

Basin	Segment Name		Area
Salmon			
HUC	*17060208*		
ID17060208SL020_02	Warm Lake - 1st and 2nd order		6.2
Summary for 'HUC' = 17060208 (1 detail record)		**Sum**	*6.1999*
Summary for 'Basin' = Salmon (1 detail record)		**Sum**	*6.199999*
Southwest			
HUC	*17050113*		
ID17050113SW005_03	Castle Creek - 3rd order		1.52
ID17050113SW001_03	Rattlesnake Creek - 3rd order		0.87
Summary for 'HUC' = 17050113 (2 detail records)		**Sum**	*2.3899*
HUC	*17050120*		
ID17050120SW018_02	Deadwood Reservoir		51.09
Summary for 'HUC' = 17050120 (1 detail record)		**Sum**	*51.090*
HUC	*17050123*		
ID17050123SW019_02	Upper Payette Lake		6.64
Summary for 'HUC' = 17050123 (1 detail record)		**Sum**	*6.6399*
Summary for 'Basin' = Southwest (4 detail records)		**Sum**	*60.12000*
		Grand Total	*2000.1880*

Section 2: Rivers Supporting Some Uses

Basin	Segment Name		Length
Bear			
HUC	*16010102*		
ID16010102BR007_02	Salt Creek - source to Idaho/Wyoming border		7.06
Summary for 'HUC' = 16010102 (1 detail record)		**Sum**	*7.0599*
HUC	*16010201*		
ID16010201BR006_02a	Beaver Creek		3.74
ID16010201BR014_03a	Bloomington Creek		2.23
ID16010201BR010_02a	Copenhagen Creek		12.32
ID16010201BR004_02	Eightmile Creek		31.16
ID16010201BR006_02b	Fern Creek		2.15
ID16010201BR019_02a	Fish Haven Creek		13.29
ID16010201BR020_02d	Home Canyon		13.22
ID16010201BR016_03	Little and St. Charles Creeks - source to Bear Lake		2.62
ID16010201BR016_03a	Little Saint Charles Creek		2.67
ID16010201BR014_03	lower Bloomington Creek		13.47
ID16010201BR010_03	lower North Creek		6.12
ID16010201BR002_02c	lower Skinner Creek		4.4
ID16010201BR006_03	lower Stauffer Creek		4.14
ID16010201BR020_03a	middle Montpelier Creek		8.72
ID16010201BR006_02d	middle Stauffer Creek		5.24
ID16010201BR016_03b	Saint Charles Creek		9.18
ID16010201BR006_02e	Spring Creek		5.52

Basin	Segment Name		Length
ID16010201BR020_02c	Telephone Draw		2.76
ID16010201BR003_02a	upper Bailey Creek		4.7
ID16010201BR010_02d	upper North Creek		17.08
ID16010201BR007_02a	upper Skinner Creek		6.56
ID16010201BR023_02a	upper Soda Creek		2.73
ID16010201BR006_02c	upper Stauffer Creek		7.29
ID16010201BR002_02b	Wood Canyon		7.24
Summary for 'HUC' = 16010201 (24 detail records)		**Sum**	*188.54*
HUC	*16010202*		
ID16010202BR014_02b	Blue Creek		34.59
ID16010202BR009_02c	Burton Creek		13.8
ID16010202BR004_03	Cub River - source to Sugar Creek		7.35
ID16010202BR004_02	Cub River - source to Sugar Creek		30.2
ID16010202BR014_02a	Divide Creek		4.32
ID16010202BR020_02b	Dry Canyon		14.12
ID16010202BR004_02a	Foster Creek		5.53
ID16010202BR018_02a	Gooseberry Creek		14.38
ID16010202BR007_03	Mink Creek - source to mouth		8.01
ID16010202BR017_02a	Oxford Creek		3.5
ID16010202BR014_02c	Shingle Creek		10.57
ID16010202BR011_03	Trout Creek - source to mouth		3.95
Summary for 'HUC' = 16010202 (12 detail records)		**Sum**	*150.32*
HUC	*16010203*		
ID16010203BR001_02	Beaver Creek - source to Idaho/Utah border		20.53

Basin	Segment Name		Length
ID16010203BR002_02	Logan River - source to Idaho/Utah border		22.2
Summary for 'HUC' = 16010203 (2 detail records)		**Sum**	*42.730*
HUC	*16010204*		
ID16010204BR004_02	Devil Creek - source to Devil Creek Reservoir		14.35
ID16010204BR002_02b	New Canyon Creek		12.8
ID16010204BR007_02a	Third Creek		12.92
ID16010204BR001_02a	Two Mile Canyon		7.31
Summary for 'HUC' = 16010204 (4 detail records)		**Sum**	*47.380*
Summary for 'Basin' = Bear (43 detail records)		**Sum**	*436.04*

Clearwater

HUC	17060108		
ID17060108CL020_02	Big Sand Creek - source to mouth		13.72
ID17060108CL031a_02	Crane Creek - source to T42N, 04W, Sec. 28		3.71
ID17060108CL024_02	East Fork Meadow Creek - source to mouth		19.88
ID17060108CL017_02	Flat Creek - source to mouth		21.54
ID17060108CL028_02	Jerome Creek - source to mouth		6.55
ID17060108CL019_02	Little Sand Creek - source to mouth		10.52
ID17060108CL019_03	Little Sand Creek - source to mouth		2.21
ID17060108CL023_03	Meadow Creek - East Fork Meadow Creek to mouth		2.76
ID17060108CL025_02	Meadow Creek - source to East Fork Meadow Creek		16.22
ID17060108CL021_02	North Fork Palouse River - source to mouth		13.98
ID17060108CL018_02	Palouse River - source to Strychnine Creek		26.25
ID17060108CL016_04	Palouse River - Strychnine Creek to Hatter Creek		16.13
ID17060108CL022_02	Strychnine Creek - source to mouth		12.57

Basin	Segment Name		Length
ID17060108CL022_03	Strychnine Creek - source to mouth		2.04
ID17060108CL026_02	White Pine Creek - source to mouth		3.88
Summary for 'HUC' = 17060108 (15 detail records)		**Sum**	*171.95*
HUC	*17060301*		
ID17060301CL011_02	Lynx Creek - source to mouth		13.9
ID17060301CL008_03	Running Creek - Lynx Creek to mouth		10.49
ID17060301CL009_03	Running Creek - source to Lynx Creek		3.68
ID17060301CL010_02	South Fork Running Creek - source to mouth		9.6
Summary for 'HUC' = 17060301 (4 detail records)		**Sum**	*37.669*
HUC	*17060302*		
ID17060302CL054_02	Boyd Creek - source to mouth		8.84
ID17060302CL013_02	Butte Creek - source to mouth		9.98
ID17060302CL019_02	East Fork Meadow Creek - source to mouth		17.23
ID17060302CL007_03	Falls Creek - source to mouth		4.34
ID17060302CL053_02	Glover Creek - source to mouth		11.69
ID17060302CL002_02	Goddard Creek - source to mouth		16.52
ID17060302CL006_02a	Island Creek - source to mouth		6.49
ID17060302CL008_04	Meadow Creek - Buck Lake Creek to mouth		10.31
ID17060302CL012_04	Meadow Creek - East Fork Meadow Creek to Buck Lake Creek		12.59
ID17060302CL003_04	O'Hara Creek - confluence of Hamby Fork to mouth		4.42
ID17060302CL003_03	O'Hara Creek - confluence of West and East Fork O'Hara Creek		6.36
ID17060302CL003_02	O'Hara Creek - confluence of West and East Fork O'Hara Creek		43.56
ID17060302CL055_02	Rackliff Creek - source to mouth		9.39
ID17060302CL014_03	Sable Creek - source to mouth		3.55

Basin	Segment Name		Length
ID17060302CL022_02	Selway River - Moose Creek to Meadow Creek		98.11
ID17060302CL001_02	Selway River - O'Hara Creek to mouth		21.96
ID17060302CL015_02	Simmons Creek - source to mouth		10.89
ID17060302CL006_02b	Slide Creek - source to mouth		4.16
ID17060302CL006_02	Twentythree, Nineteen Mile Creeks and tribs.		27.14
Summary for 'HUC' = 17060302 (19 detail records)		**Sum**	*327.53*

HUC	17060303		
ID17060303CL044_02	Badger Creek - source to mouth		5.18
ID17060303CL051_03	Bald Mountain Creek - source to mouth		3.14
ID17060303CL051_02	Bald Mountain Creek - source to mouth		2.34
ID17060303CL058_02	Bimerick Creek - source to mouth		15.42
ID17060303CL040_03	Boulder Creek - source to mouth		3.31
ID17060303CL035_03	Brushy Fork - Spruce Creek to mouth		5.75
ID17060303CL026_02	Colt Creek - source to mouth		23.61
ID17060303CL004_03	Coolwater Creek - source to mouth		2.4
ID17060303CL038_03	Crooked Fork - source to Brushy Fork		4.97
ID17060303CL047_02	Doe Creek - source to mouth		8.98
ID17060303CL012_02	Eagle Mountain Creek - source to mouth		7.11
ID17060303CL057_02	Fish Creek - headwaters and tributaries		48.41
ID17060303CL040_02	Fox Creek - source to mouth, and tributaries		22.64
ID17060303CL038_02	Haskell Creek - and tributaries		29.96
ID17060303CL009_02	Holly Creek - and tributaries		66.11
ID17060303CL027_02	Hoodoo, Muleshoe, Bridge Creeks		20.6
ID17060303CL039_02	Hopeful Creek - source to mouth		12.36

Basin	Segment Name		Length
ID17060303CL039_03	Hopeful Creek - source to mouth		2.18
ID17060303CL056_02	Hungery Creek - source to Obia Creek		8.66
ID17060303CL050_02	Indian Grave Creek - source to mouth		15.4
ID17060303CL013_02	Lochsa River- Warm Springs Creek to Indian Grave Creek		30.22
ID17060303CL055_02	Obia Creek - source to mouth		12.14
ID17060303CL035_02	Pack Creek and tributaries		30.68
ID17060303CL041_03	Papoose Creek - source to mouth		1.89
ID17060303CL042_02	Parachute Creek - source to mouth		5.45
ID17060303CL065_02	Pete King Creek - source to Walde Creek		11.91
ID17060303CL048_02	Postoffice Creek - source to mouth		20.07
ID17060303CL020_02	Robin Creek - and tributaries		13.56
ID17060303CL036_02	Spruce Creek - source to mouth		19.11
ID17060303CL045_03	Squaw Creek - source to mouth		3.66
ID17060303CL011_02	Stanley Creek - source to mouth		14.69
ID17060303CL028_02	Swamp Creek - source to mouth		13.91
ID17060303CL023_02	Walton Creek - source to mouth		12.57
ID17060303CL017_03	Warm Springs Creek - Wind Lakes Creek to mouth		6.15
ID17060303CL049_03	Weir Creek - source to mouth		1.86
Summary for 'HUC' = 17060303 (35 detail records)		**Sum**	*506.39*
HUC	*17060304*		
ID17060304CL008_02	Browns Spring Creek - source to mouth		7.55
ID17060304CL006_02	Clear Creek - source to South Fork Clear Creek		8.79
ID17060304CL006_04	Clear Creek - source to South Fork Clear Creek		2.12
ID17060304CL002_04	Clear Creek - South Fork Clear Creek to mouth		11.71

Basin	Segment Name		Length
ID17060304CL010_02	Lodge Creek - source to mouth		5.41
ID17060304CL011_02	Maggie Creek - source to mouth		27.74
ID17060304CL007_02	Middle Fork Clear Creek - source to mouth		11.4
ID17060304CL001_02	Middle Fork Clearwater River - confluence of Lochsa		89.36
ID17060304CL009_02	Pine Knob Creek - source to mouth		5.33
Summary for 'HUC' = 17060304 (9 detail records)		**Sum**	*169.40*

HUC *17060306*

ID17060306CL047_02	Boulder Creek - source to mouth		18.65
ID17060306CL046_02	Cedar Creek - source to mouth		48.58
ID17060306CL022_02	Clearwater River - confluence of South and Middle Fork Clear		105.04
ID17060306CL022_03	Clearwater River - confluence of South and Middle Fork Clear		6.36
ID17060306CL014_03	Cottonwood Creek - source to mouth		13
ID17060306CL057_02	East Fork Big Bear Creek - source to mouth		46.73
ID17060306CL051_03	East Fork Potlatch River - source to mouth		11.06
ID17060306CL051_02	East Fork Potlatch River - source to mouth		51.56
ID17060306CL029_02	Eldorado Creek - source to mouth		52.08
ID17060306CL029_03	Eldorado Creek - source to mouth		6.46
ID17060306CL067_03	Hatwai Creek - source to mouth		4.04
ID17060306CL015_02	Jacks Creek - source to mouth		25.85
ID17060306CL024_04	Lawyer Creek - source to mouth		37.99
ID17060306CL060_04	Little Bear Creek - source to mouth		4.67
ID17060306CL060_03	Little Bear Creek - source to mouth		9.79
ID17060306CL018_04	Little Canyon Creek - confluence of Holes and Long Hollow Cr		18.56
ID17060306CL064_03	Little Potlatch Creek - source to mouth		10.8

Basin	Segment Name		Length
ID17060306CL026_04	Lolo Creek - Yakus Creek to mouth		27.7
ID17060306CL011_03	Mission Creek - source to mouth		18.09
ID17060306CL032_02	Musselshell Creek - source to mouth		30.83
ID17060306CL052_02	Ruby Creek - source to mouth		17.19
ID17060306CL005_04	Sweetwater Creek - Webb Creek to mouth		3.69
ID17060306CL040_03	Whiskey Creek - source to mouth		10.29
ID17060306CL030_02	Yoosa Creek - source to mouth		26.67
ID17060306CL030_03	Yoosa Creek - source to mouth		2.78
Summary for 'HUC' = 17060306 (25 detail records)		**Sum**	*608.46*

HUC *17060307*

ID17060307CL048_02	Collins Creek - source to mouth		33.62
ID17060307CL002_02	Deadhorse, Dead Mule Creeks and tribs		29.24
ID17060307CL002_02a	Flat Creek		9.72
ID17060307CL024_04	Kelly Creek - confluence of North and Middle Fork Kelly Cree		3.16
ID17060307CL024_03	Kelly Creek - confluence of North and Middle Fork Kelly Cree		8.36
ID17060307CL024_02	Kelly Creek - confluence of North and Middle Fork Kelly Cree		42.21
ID17060307CL042_02	Larson Creek - source to mouth		9.01
ID17060307CL035_02	Long Creek - source to mouth		24.49
ID17060307CL020_02	Lookout, Monroe Creek - source to mouth		22.47
ID17060307CL026_02	Middle Fork Kelly Creek - source to mouth		15.36
ID17060307CL003_02	Moose, Lodge, Rettig, Creeks and tribs		42.62
ID17060307CL027_02	North Fork Kelly Creek - source to mouth		9.27
ID17060307CL032_02b	Pete Ott Creek		22.4
ID17060307CL001_02b	Sheep Creek		6.88

Basin	Segment Name		Length
ID17060307CL004_02	Siwash, Cave Creeks and tribs		21.59
ID17060307CL047_03	Skull Creek - source to Collins Creek		4.16
ID17060307CL047_02	Snow Creek and tribs		41.58
ID17060307CL025_02	South Fork Kelly Creek - source to mouth		13
ID17060307CL003_02a	Tumble Creek		4.59
ID17060307CL044_02b	Wolf Creek		26.84
Summary for 'HUC' = 17060307 (20 detail records)		**Sum**	*390.56*
HUC	*17060308*		
ID17060308CL009_02	Beaver Creek - tributaries		38.4
ID17060308CL009_02b	Bertha Creek - source to mouth		2.72
ID17060308CL013_03	Canyon Creek - source to mouth		5.43
ID17060308CL013_02	Canyon Creek - source to mouth		26.28
ID17060308CL030_02e	Deep Creek, Fisher Creek, and tributaries		33.31
ID17060308CL010_02a	Dog Creek - source to mouth		3.88
ID17060308CL030_02b	Elk Creek		16.51
ID17060308CL018_03	Foehl Creek - source to mouth		5.18
ID17060308CL010_02b	Goat Creek - and tributaries		15.11
ID17060308CL010_02	Isabella Creek - headwaters to Elmer/Jug Creek		3.14
ID17060308CL024_02	Isabella Creek - source to mouth		14.19
ID17060308CL030_02c	Johnson Creek		3.28
ID17060308CL017_02	Little North Fork Clearwater River - source to Rutledge Cree		11.43
ID17060308CL009_02d	Sourdough Creek		5.69
ID17060308CL009_02a	South Fork Beaver Creek		8.22
ID17060308CL030_02a	West Fork Elk Creek		3.5

Basin	Segment Name		Length
Summary for 'HUC' = 17060308 (16 detail records)		**Sum**	*196.27*
Summary for 'Basin' = Clearwater (143 detail records)		**Sum**	*2408.2*
Panhandle			
HUC	*17010101*		
ID17010101PN003_03	South Callahan Creek - Glad Creek to Idaho/Montana border		1.72
ID17010101PN001_02	Star Creek - source to Idaho/Montana border		14
Summary for 'HUC' = 17010101 (2 detail records)		**Sum**	*15.720*
HUC	*17010104*		
ID17010104PN009_02	Parker Creek - source to mouth		22.02
ID17010104PN020_02	Ruby Creek - source to mouth		14.49
Summary for 'HUC' = 17010104 (2 detail records)		**Sum**	*36.510*
HUC	*17010105*		
ID17010105PN005_02	Moyie River - Round Prairie Creek to Meadow Creek		34.65
Summary for 'HUC' = 17010105 (1 detail record)		**Sum**	*34.650*
HUC	*17010213*		
ID17010213PN021_02	Spring Creek - source to mouth		13.51
Summary for 'HUC' = 17010213 (1 detail record)		**Sum**	*13.510*
HUC	*17010214*		
ID17010214PN010_03	Brickel Creek - Idaho/Washington border to mouth		5.62
ID17010214PN047_02	Colburn Creek - source to mouth		8.61
ID17010214PN060_02	Manley Creek - source to mouth		5.86
ID17010214PN033_02	Rapid Lightning Creek - source to mouth		45.98
ID17010214PN059_02	Riley Creek - source to mouth		11.61
ID17010214PN029_02	Strong Creek - source to mouth		4.25

Basin	Segment Name		Length
ID17010214PN039_03	Upper Pack River - Lindsey Creek to Sand Creek		8.33
Summary for 'HUC' = 17010214 (7 detail records)		**Sum**	*90.259*
HUC	*17010215*		
ID17010215PN002_03	Big Creek - source to mouth		3.59
ID17010215PN015_03	Caribou Creek - source to mouth		7.65
ID17010215PN022_03	Granite Creek - Idaho/Washington border to mouth		10.44
ID17010215PN022_02	Granite Creek - Idaho/Washington border to mouth		103.73
ID17010215PN019_04	Hughes Fork - source to mouth		3.33
ID17010215PN009_03	Hunt Creek - source to mouth		1.18
ID17010215PN009_02	Hunt Creek - source to mouth		18.79
ID17010215PN010_03	Indian Creek - source to mouth		3.24
ID17010215PN004_02	North Fork East River - source to mouth		27.53
ID17010215PN029_03	Quartz Creek - source to mouth		3.2
ID17010215PN008_02	Soldier Creek - source to mouth		24.59
ID17010215PN021_02	Tango Creek - source to mouth		3.26
ID17010215PN018_03	Upper Priest River - Idaho/Canadian border to mouth		18.71
Summary for 'HUC' = 17010215 (13 detail records)		**Sum**	*229.24*
HUC	*17010301*		
ID17010301PN025_03	Downey Creek - source to mouth		2.33
ID17010301PN023_03	Flat Creek - source to mouth		4.68
ID17010301PN014_03	Jordan Creek - source to mouth		3.39
ID17010301PN014_02	Jordan Creek - source to mouth		20.6
ID17010301PN013_02	North Fork Coeur d'Alene River - Jordan Creek to Yellow Dog		41.51
ID17010301PN012_02	Shoshone Creek - source to Falls Creek		46.84

Basin	Segment Name		Length
Summary for 'HUC' = 17010301 (6 detail records)		**Sum**	*119.34*
HUC	*17010302*		
ID17010302PN007a_02	Big Creek - source to mining impact area		22.77
ID17010302PN007a_03	Big Creek - source to mining impact area		4.42
ID17010302PN005_02	Hunter Creek - source to mouth		6.84
ID17010302PN003_03	Pine Creek - source to East Fork Pine Creek		5.95
ID17010302PN003_02	Pine Creek - source to East Fork Pine Creek		31.48
ID17010302PN013_03	South Fork Coeur d'Alene River - source to Daisy Gulch		1.12
ID17010302PN019_02	West Fork Moon Creek - source to mouth		4.28
Summary for 'HUC' = 17010302 (7 detail records)		**Sum**	*76.860*
HUC	*17010303*		
ID17010303PN026_02	Carlin Creek - source to mouth		14.15
ID17010303PN032_03	Fernan Creek - Fernan Lake to mouth		0.65
ID17010303PN005_03	Fighting Creek - source to mouth		0.64
ID17010303PN006_04	Lake Creek - Idaho/Washington border to mouth		7.35
ID17010303PN029_02	Wolf Lodge Creek - source to mouth		30.13
Summary for 'HUC' = 17010303 (5 detail records)		**Sum**	*52.919*
HUC	*17010304*		
ID17010304PN004_03	Benewah Creek - source to mouth		11.33
ID17010304PN028_02	Bond Creek - source to mouth		27.08
ID17010304PN028_03	Bond Creek - source to mouth		5.2
ID17010304PN033_03	Bussel Creek - source to mouth		3.8
ID17010304PN037_03	Daveggio Creek - source to mouth		1.84
ID17010304PN056_02	Eagle Creek - source to mouth		12.92

Basin	Segment Name		Length
ID17010304PN034_02	Hobo Creek - source to mouth		9.46
ID17010304PN029_02	Hugus Creek- source to mouth		15.19
ID17010304PN031_03	Marble Creek - Hobo Creek to mouth		2.66
ID17010304PN035_03	Marble Creek - source to Hobo Creek		7.85
ID17010304PN059_02	North Fork St. Joe River - Loop Creek to mouth		27.8
ID17010304PN044_02	Nugget Creek - source to mouth		8.6
ID17010304PN043_02	Prospector Creek - source to mouth		6.76
ID17010304PN055_03	Quartz Creek - source to mouth		2.5
ID17010304PN042_03	Sisters Creek - source to mouth		4.59
ID17010304PN042_02	Sisters Creek - source to mouth		48.95
ID17010304PN040_02	Siwash Creek - source to mouth		9.31
ID17010304PN058_02	Skookum Creek - source to mouth		12.54
ID17010304PN041_04	St. Joe River - source to North Fork St. Joe River		59.59
ID17010304PN050_02	Timber Creek - source to mouth		6.55
ID17010304PN013_02	Tyson Creek - source to mouth		14.15
ID17010304PN017_02	West Fork St. Maries River - source to mouth		52.36
Summary for 'HUC' = 17010304 (22 detail records)		**Sum**	*351.03*
HUC	*17010305*		
ID17010305PN008_02	Mokins Creek - source to mouth		7.82
ID17010305PN012_03	Rathdrum Creek - Twin Lakes to mouth		3.47
Summary for 'HUC' = 17010305 (2 detail records)		**Sum**	*11.290*
Summary for 'Basin' = Panhandle (68 detail records)		**Sum**	*1031.3*

Salmon

HUC *17060101*

Basin	Segment Name		Length
ID17060101SL004_02	Deep Creek - source to mouth		20.97
ID17060101SL023_02	Getta Creek - source to mouth		26.96
Summary for 'HUC' = 17060101 (2 detail records)		**Sum**	*47.929*
HUC	*17060103*		
ID17060103SL007_02	Corral Creek - source to mouth		12.12
Summary for 'HUC' = 17060103 (1 detail record)		**Sum**	*12.119*
HUC	*17060201*		
ID17060201SL075_03	Alturas Lake Creek - Alturas Lake to mouth		3.87
ID17060201SL048_02	Basin Creek - East Basin Creek to mouth		3.15
ID17060201SL050_03	Basin Creek - source to East Basin Creek		6.77
ID17060201SL050_02	Basin Creek - source to East Basin Creek		54.01
ID17060201SL017_03	Bayhorse Creek - source to mouth		5.02
ID17060201SL017_02	Bayhorse Creek - source to mouth		24.86
ID17060201SL011_02	Bear Creek - source to mouth		18.14
ID17060201SL082_02	Beaver Creek - source to mouth		20.4
ID17060201SL105_02	Big Boulder Creek - source to mouth		23.28
ID17060201SL105_03	Big Boulder Creek - source to mouth		9.32
ID17060201SL092_02	Big Casino Creek - source to mouth		13.72
ID17060201SL005_02	Blowfly Creek - source to mouth		3.11
ID17060201SL030_02	Buckskin Creek - source to mouth		2.85
ID17060201SL022_02	Cash Creek - source to mouth		11.54
ID17060201SL009_02	Challis Creek - Bear Creek to Darling Creek		19.71
ID17060201SL012_02	Challis Creek - source to Bear Creek		27.54
ID17060201SL108_02	Chamberlain Creek - source to mouth		8.67

Basin	Segment Name	Length
ID17060201SL025_02	Cinnabar Creek - source to mouth	12.65
ID17060201SL008_03	Darling Creek - source to mouth	4.45
ID17060201SL069_03	Decker Creek - Huckleberry Creek to mouth	1
ID17060201SL070_02	Decker Creek - source to Huckleberry Creek	6.22
ID17060201SL049_02	East Basin Creek - source to mouth	11.6
ID17060201SL010_02	Eddy Creek - source to mouth	20.61
ID17060201SL040_02	Eightmile Creek - source to mouth	19.12
ID17060201SL040_03	Eightmile Creek - source to mouth	3.52
ID17060201SL036_02	Elevenmile Creek - source to mouth	4.19
ID17060201SL057_02	Elk Creek - source to mouth	24.91
ID17060201SL088_02	Fisher Creek - source to mouth	19.43
ID17060201SL035_02	Fivemile Creek - source to mouth	11.39
ID17060201SL087_03	Fourth of July Creek - source to mouth	8.77
ID17060201SL087_02	Fourth of July Creek - source to mouth	16.73
ID17060201SL084_02	Frenchman Creek - source to mouth	9.42
ID17060201SL107_02	Germania Creek - Chamberlain Creek to mouth	7.17
ID17060201SL107_03	Germania Creek - Chamberlain Creek to mouth	4.68
ID17060201SL109_03	Germania Creek - source to Chamberlain Creek	5.6
ID17060201SL109_02	Germania Creek - source to Chamberlain Creek	42.94
ID17060201SL074_02	Hell Roaring Creek - source to mouth	14.52
ID17060201SL118_04	Herd Creek - confluence of West Fork Herd Creek and East Pas	7.47
ID17060201SL100_02	Holman Creek - source to mouth	9.31
ID17060201SL071_02	Huckleberry Creek - source to mouth	6
ID17060201SL113_02	Ibex Creek - source to mouth	3.79

Basin	Segment Name	Length
ID17060201SL041_03	Jordan Creek - from and including Unnamed Tributary (T13N, R	1.36
ID17060201SL042_02	Jordan Creek - source to Unnamed Tributary (T13N, R15E, Sec.	17.28
ID17060201SL123_02	Lake Creek - source to mouth	21.37
ID17060201SL106_02	Little Boulder Creek - source to mouth	20.85
ID17060201SL091_02	Little Casino Creek - source to mouth	10.23
ID17060201SL037_02	McKay Creek - source to mouth	9.02
ID17060201SL013_02	Mill Creek - source to mouth	24.96
ID17060201SL013_03	Mill Creek - source to mouth	9.66
ID17060201SL003_03	Morgan Creek - source to West Creek	7.68
ID17060201SL003_02	Morgan Creek - source to West Creek	74.94
ID17060201SL002_03	Morgan Creek - West Creek to mouth	6.68
ID17060201SL096_02	Pigtail Creek - source to mouth	16.12
ID17060201SL085_03	Pole Creek - source to mouth	5.29
ID17060201SL085_02	Pole Creek - source to mouth	26.12
ID17060201SL033_03	Ramey Creek - source to mouth	1.48
ID17060201SL093_02	Rough Creek - source to mouth	8.8
ID17060201SL073_02	Salmon River - Alturas Lake Creek to Fisher Creek	5.15
ID17060201SL016_02	Salmon River - East Fork Salmon River to Garden Creek	91.4
ID17060201SL081_03	Salmon River - source to Alturas Lake Creek	11.86
ID17060201SL081_04	Salmon River - source to Alturas Lake Creek	10.96
ID17060201SL081_02	Salmon River - source to Alturas Lake Creek	51.02
ID17060201SL019_04	Salmon River - Squaw Creek to East Fork Salmon River	8.17
ID17060201SL019_02	Salmon River - Squaw Creek to East Fork Salmon River	28.06
ID17060201SL068_05	Salmon River - Unnamed Tributary (T19N, R13E, Sec. 25) to Re	9.14

Basin	Segment Name	Length
ID17060201SL068_02	Salmon River - Unnamed Tributary (T19N, R13E, Sec. 25) to Re	23.44
ID17060201SL047_02	Salmon River - Valley Creek to Yankee Fork Creek	39.98
ID17060201SL031_02	Salmon River - Yankee Fork Creek to Thompson Creek	50.15
ID17060201SL031_03	Salmon River - Yankee Fork Creek to Thompson Creek	4.02
ID17060201SL031_05	Salmon River - Yankee Fork Creek to Thompson Creek	13.85
ID17060201SL099_03	Slate Creek - source to mouth	4.7
ID17060201SL083_03	Smiley Creek - source to mouth	7.61
ID17060201SL083_02	Smiley Creek - source to mouth	15.52
ID17060201SL112_03	South Fork East Fork Salmon River - source to mouth	2.04
ID17060201SL112_02	South Fork East Fork Salmon River - source to mouth	24.83
ID17060201SL021_02	Squaw Creek - Cash Creek to mouth	18.88
ID17060201SL058_02	Stanley Creek - source to mouth	23.25
ID17060201SL052_02	Stanley Creek - source to mouth	16.99
ID17060201SL098_02	Swimm Creek - source to mouth	3.54
ID17060201SL039_02	Tenmile Creek - source to mouth	5.14
ID17060201SL028_02	Thompson Creek - source to mouth	24.62
ID17060201SL055_02	Trap Creek - source to Meadow Creek	8.58
ID17060201SL038_02	Twentymile Creek - source to mouth	3.59
ID17060201SL053_03	Valley Creek - source to Trap Creek	10.29
ID17060201SL051_04	Valley Creek - Trap Creek to mouth	6.86
ID17060201SL095_03	Warm Springs Creek - Pigtail Creek to Swimm Creek	4.83
ID17060201SL097_03	Warm Springs Creek - source to Pigtail Creek	3.75
ID17060201SL097_02	Warm Springs Creek - source to Pigtail Creek	16.58
ID17060201SL094_03	Warm Springs Creek - Swimm Creek to mouth	7.19

Basin	Segment Name		Length
ID17060201SL004_02	West Creek - Blowfly Creek to mouth		8.3
ID17060201SL114_03	West Pass Creek - source to mouth		3.91
ID17060201SL114_02	West Pass Creek - source to mouth		25.23
ID17060201SL032_04	Yankee Fork Creek - Jordan Creek to mouth		9
ID17060201SL032_02	Yankee Fork Creek - Jordan Creek to mouth		20.3
ID17060201SL034_03	Yankee Fork Creek - source to Jordan Creek		6.22
ID17060201SL034_02	Yankee Fork Creek - source to Jordan Creek		50.54
Summary for 'HUC' = 17060201 (96 detail records)		**Sum**	*1472.7*
HUC	*17060202*		
ID17060202SL031_02	Big Creek - confluence of North and South Fork Big Creeks to		24.32
ID17060202SL022_02	East Fork Pahsimeroi River - source to mouth		39.88
ID17060202SL022_03	East Fork Pahsimeroi River - source to mouth		1.42
ID17060202SL036_02	Falls Creek - source to mouth		39.29
ID17060202SL028_03	Goldburg Creek - Donkey Creek to mouth		9.39
ID17060202SL019_03	Mahogany Creek - source to mouth		2.96
ID17060202SL038_03	Morse Creek - source to Irrigation junction (T15S, R23E)		3.8
ID17060202SL033_02	North Fork Big Creek - source to mouth		30.01
ID17060202SL035_03	Patterson Creek - source to and including Inyo Creek		1.26
ID17060202SL035_02	Patterson Creek - source to and including Inyo Creek		28.37
ID17060202SL032_02	South Fork Big Creek - source to mouth		27.89
Summary for 'HUC' = 17060202 (11 detail records)		**Sum**	*208.59*
HUC	*17060203*		
ID17060203SL056_02	Allison Creek - source to mouth		10.22
ID17060203SL076_02	Anderson Creek - source to mouth		7.65

Basin	Segment Name	Length
ID17060203SL026_02	Arnett Creek - source to mouth	18.31
ID17060203SL028_02	Beaver Creek - source to mouth	17.52
ID17060203SL006_03	Big Deer Creek - source to South Fork Big Deer Creek	8.24
ID17060203SL086_02	Boulder Creek - source to mouth	13.38
ID17060203SL061_03	Carmen Creek - Freeman Creek to mouth	5.25
ID17060203SL063_02	Carmen Creek - source to Freeman Creek	24.01
ID17060203SL004_02	Clear Creek - source to mouth	41.26
ID17060203SL090_02	Colson Creek - source to mouth	11.34
ID17060203SL073_02	Dahlonega Creek - Nez Perce Creek to mouth	11.82
ID17060203SL074_02	Dahlonega Creek - source to Nez Perce Creek	4.88
ID17060203SL020_03	Deep Creek - Little Deep Creek to mouth	2.31
ID17060203SL037_02	Dolly Creek - source to mouth	9.35
ID17060203SL031_02	East Boulder Creek - source to mouth	14.4
ID17060203SL066_02	Fourth of July Creek - source to Little Fourth of July Creek	17.05
ID17060203SL062_02	Freeman Creek - source to mouth	20.68
ID17060203SL054_03	Hot Creek - source to mouth	12.61
ID17060203SL081_02	Hughes Creek - source to mouth	48.24
ID17060203SL081_03	Hughes Creek - source to mouth	6.12
ID17060203SL082_02	Hull Creek - source to mouth	10.47
ID17060203SL083_03	Indian Creek - source to mouth	11.37
ID17060203SL048_02	Iron Creek - North Fork Iron Creek to mouth	29.13
ID17060203SL048_03	Iron Creek - North Fork Iron Creek to mouth	8.96
ID17060203SL050_02	Iron Creek - source to North Fork Iron Creek	4.49
ID17060203SL057_03	McKim Creek - source to mouth	2.48

Basin	Segment Name	Length
ID17060203SL035_03	Moose Creek - Dolly Creek to Little Moose Creek	1.43
ID17060203SL036_02	Moose Creek - source to Dolly Creek	16.44
ID17060203SL018_02	Moyer Creek - source to mouth	40.09
ID17060203SL018_03	Moyer Creek - source to mouth	7.3
ID17060203SL015_02	Musgrove Creek - source to mouth	17.7
ID17060203SL024_03	Napias Creek - Arnett Creek to and including Moccasin Creek	5.51
ID17060203SL024_02	Napias Creek - Arnett Creek to and including Moccasin Creek	28.69
ID17060203SL023_04	Napias Creek - Moccasin Creek to mouth	2.68
ID17060203SL025_02	Napias Creek - source to Arnett Creek	20.64
ID17060203SL049_02	North Fork Iron Creek - source to mouth	20.08
ID17060203SL078_02	North Fork Salmon River - source to Twin Creek	17.46
ID17060203SL077_02	North Fork Salmon River - Twin Creek to Dahlonega Creek	15.71
ID17060203SL077_03	North Fork Salmon River - Twin Creek to Dahlonega Creek	5.71
ID17060203SL044_02	North Fork Williams Creek - source to mouth	6.42
ID17060203SL087_03	Owl Creek - East Fork Owl Creek to mouth	1.96
ID17060203SL002_05	Panther Creek - Big Deer Creek to mouth	12.98
ID17060203SL010_02	Panther Creek - Napias Creek to Big Deer Creek	21.16
ID17060203SL014_02	Panther Creek - Porphyry Creek to Blackbird Creek	8.65
ID17060203SL014_03	Panther Creek - Porphyry Creek to Blackbird Creek	1.89
ID17060203SL017_03	Panther Creek - source to Porphyry Creek	11.61
ID17060203SL017_02	Panther Creek - source to Porphyry Creek	44.19
ID17060203SL030_02	Pine Creek - source to mouth	24.39
ID17060203SL016_02	Porphyry Creek - source to mouth	9.5
ID17060203SL032_02	Salmon River - North Fork Sheep Creek to Indian Creek	21.53

Basin	Segment Name		Length
ID17060203SL032_03	Salmon River - North Fork Sheep Creek to Indian Creek		2.65
ID17060203SL053_02	Salmon River - Pahsimeroi River to Iron Creek		52.04
ID17060203SL001_02	Salmon River - Panther Creek to Middle Fork Salmon River		30
ID17060203SL052_02	South Fork Iron Creek - source to mouth		6.96
ID17060203SL045_02	South Fork Williams Creek - source to mouth		7.05
ID17060203SL085_03	Spring Creek - source to mouth		2.28
ID17060203SL085_02	Spring Creek - source to mouth		17.41
ID17060203SL084_02	Squaw Creek - source to mouth		15.88
ID17060203SL064_03	Tower Creek - source to mouth		1.93
ID17060203SL060_03	Twelvemile Creek - source to mouth		3.31
ID17060203SL080_02	Twin Creek - source to mouth		14.28
ID17060203SL040_02	Wallace Creek - source to mouth		7.93
ID17060203SL051_02	West Fork Iron Creek - source to mouth		5.69
ID17060203SL043_03	Williams Creek - confluence of North and South Fork Williams		4.9
ID17060203SL019_03	Woodtick Creek - source to mouth		5.14
Summary for 'HUC' = 17060203 (65 detail records)		**Sum**	*912.70*
HUC	*17060204*		
ID17060204SL058_02	Agency Creek - source to Cow Creek		29.92
ID17060204SL058_04	Agency Creek - source to Cow Creek		4.01
ID17060204SL010_04	Basin Creek - Lake Creek to mouth		2.66
ID17060204SL017_02	Bear Valley Creek - source to Wright Creek		13.83
ID17060204SL016_04	Bear Valley Creek -Wright Creek to mouth		2.78
ID17060204SL029a_03	Big Eightmile Creek - diversion (T16N, R25E, Sec. 21) to mou		3.5
ID17060204SL029b_03	Big Eightmile Creek - source to diversion (T16N, R25E, Sec.		8.16

Basin	Segment Name	Length
ID17060204SL031_04	Big Timber Creek - Little Timber Creek to mouth	4.85
ID17060204SL033_03	Big Timber Creek - Rocky Creek to Little Timber Creek	9.6
ID17060204SL035_02	Big Timber Creek - source to Rocky Creek	25.05
ID17060204SL035_03	Big Timber Creek - source to Rocky Creek	2.73
ID17060204SL064b_02	Bohannon Creek - source to diversion (T21N, R23E, Sec. 22)	13.58
ID17060204SL057_03	Cow Creek - source to mouth	1.89
ID17060204SL065a_02	Geertson Creek - diversion (T21N, R23E, Sec. 20) to mouth	11.44
ID17060204SL009_05	Hayden Creek - Basin Creek to mouth	3.5
ID17060204SL021_02	Hayden Creek - source to West Fork Hayden Creek	6.05
ID17060204SL020_02	Hayden Creek -West Fork Hayden Creek to Bear Valley Creek	20.95
ID17060204SL020_03	Hayden Creek -West Fork Hayden Creek to Bear Valley Creek	6.52
ID17060204SL004_02	Haynes Creek - source to mouth	19.82
ID17060204SL019_02	Kadletz Creek - source to mouth	4.95
ID17060204SL028_02	Lee Creek - source to mouth	19.55
ID17060204SL001_02	Lemhi River - Kenney Creek to mouth	43.86
ID17060204SL032b_03	Little Timber Creek - source to diversion (T15N, R25E, Sec.	1.64
ID17060204SL032b_02	Little Timber Creek - source to diversion (T15N, R25E, Sec.	13.73
ID17060204SL007b_02	McDevitt Creek - source to diversion (T19N, R23E, Sec. 36)	19.07
ID17060204SL013_02	McNutt Creek - source to mouth	16.76
ID17060204SL026b_02	Mill Creek - source to diversion (T16N, R24E, Sec. 22)	10.53
ID17060204SL002_02	Mulkey Creek - source to mouth	6.1
ID17060204SL059b_02	Pattee Creek - source to diversion (T19N, R24E, Sec. 16)	7.39
ID17060204SL059b_03	Pattee Creek - source to diversion (T19N, R24E, Sec. 16)	22.42
ID17060204SL034_02	Rocky Creek - source to mouth	3.95

Basin	Segment Name		Length
ID17060204SL022_02	West Fork Hayden Creek - source to mouth		8.4
ID17060204SL022_03	West Fork Hayden Creek - source to mouth		0.62
ID17060204SL003a_03	Withington Creek - diversion (T20N, R23E, Sec. 09) to mouth		2.25
ID17060204SL003b_02	Withington Creek - source to diversion (T20N, R23E, Sec. 09)		21.25
ID17060204SL018_02	Wright Creek - source to mouth		4.18
ID17060204SL055b_03	Yearian Creek - source to diversion (T17N, R24E, Sec. 03)		2.23
Summary for 'HUC' = 17060204 (37 detail records)		**Sum**	*399.71*
HUC	*17060205*		
ID17060205SL022_02	Banner Creek - source to mouth		17.28
ID17060205SL032_02	Bear Creek - source to mouth		10.87
ID17060205SL012_02	Bear Valley Creek - 1st and 2nd order		82.16
ID17060205SL031_02	Beaver Creek - source to Winnemucca Creek		18.42
ID17060205SL029_02	Beaver Creek - Winnemucca Creek to Bear Creek		7.48
ID17060205SL016_03	Cache Creek - source to mouth		4.38
ID17060205SL020_03	Cape Horn Creek - Banner Creek to mouth		4.11
ID17060205SL021_02	Cape Horn Creek - source to Banner Creek		6.29
ID17060205SL015_02	Cub Creek - source to mouth		2.62
ID17060205SL011_02	Dagger Creek - 1st and 2nd order		16.34
ID17060205SL013_02	Elk Creek - 1st and 2nd order		87.31
ID17060205SL013_04	Elk Creek - 4th order		12.85
ID17060205SL017_02	Fir Creek - 1st and 2nd order		11.49
ID17060205SL025_02	Knapp Creek - source to mouth		28.28
ID17060205SL018_02	Marsh Creek - Beaver Creek to mouth		11.52
ID17060205SL019_02	Marsh Creek - Knapp Creek to Beaver Creek		6.04

Basin	Segment Name		Length
ID17060205SL019_03	Marsh Creek - Knapp Creek to Beaver Creek		4.5
ID17060205SL024_03	Marsh Creek - source to Knapp Creek		1.1
ID17060205SL062_02	Mayfield Creek - confluence of East and West Fork Mayfield C		7.39
ID17060205SL014_02	Sheep Trail Creek - source to mouth		8.18
ID17060205SL023_02	Swamp Creek - source to mouth		7.38
ID17060205SL041_02	Vanity Creek - source to mouth		22.23
ID17060205SL067_02	Warm Springs Creek - Trapper Creek to mouth		56.87
ID17060205SL063_02	West Fork Mayfield Creek - source to mouth		21.45
ID17060205SL030_03	Winnemucca Creek - source to mouth		3.69
Summary for 'HUC' = 17060205 (25 detail records)		**Sum**	*460.23*
HUC	*17060206*		
ID17060206SL034_02a	Arrastra Creek		4.82
ID17060206SL025_04	Camas Creek - Castle Creek to Silver Creek		2.83
ID17060206SL033_02	Castle Creek - source to mouth		25.46
ID17060206SL035_02	Duck Creek - source to mouth		11.02
ID17060206SL044_02	Hoodoo Creek - source to mouth		18.68
ID17060206SL040_02	Little Jacket Creek - source to mouth		8.3
ID17060206SL034_02	Silver Creek - source to mouth		48.1
ID17060206SL034_03	Silver Creek - source to mouth		14.6
ID17060206SL042_02	Trail Creek - source to mouth		11.1
ID17060206SL024_03	West Fork Camas Creek - source to mouth		5.22
ID17060206SL038_02	Yellowjacket Creek - Hoodoo Creek to Jenny Creek		10.11
ID17060206SL043_02	Yellowjacket Creek - source to Trail Creek		48.52
ID17060206SL043_03	Yellowjacket Creek - source to Trail Creek		5.39

Basin	Segment Name		Length
Summary for 'HUC' = 17060206 (13 detail records)		**Sum**	*214.14*
HUC	*17060207*		
ID17060207SL055_03	Bargamin Creek - source to mouth		5.25
ID17060207SL055_04	Bargamin Creek - source to mouth		15.99
ID17060207SL069_03	Big Creek - source to mouth		8.93
ID17060207SL069_02	Big Creek - source to mouth		10.47
ID17060207SL061_02a	Big Mallard Creek - headwater to SF Big Mallard Creek		8.45
ID17060207SL061_03	Big Mallard Creek - SF Big Mallard Creek to mouth		13.4
ID17060207SL040_02	Corn Creek - source to mouth		8.53
ID17060207SL069_02a	Eutopia Creek - and tributaries		19.35
ID17060207SL065_02	Jersey Creek - source to mouth		16.14
ID17060207SL062_02	Little Mallard Creek - source to Fish Barrier		10.78
ID17060207SL061_02	Noble Creek - source to mouth		46.86
ID17060207SL063_03	Rhett Creek - Rabbit Creek to mouth		2
ID17060207SL063_02	Rhett Creek - source to Rabbit Creek		22.11
ID17060207SL008_07	Salmon River - Chamberlain Creek to South Fork Salmon River		41.24
ID17060207SL018_07	Salmon River - Horse Creek to Chamberlain Creek		11.85
ID17060207SL037_02	Salmon River - Middle Fork Salmon River to Horse Creek		27.52
ID17060207SL037_07	Salmon River - Middle Fork Salmon River to Horse Creek		11.52
ID17060207SL001_07	Salmon River - South Fork Salmon River to river mile 106 (T2		27.42
ID17060207SL007_03a	Warren Creek - source to roadless boundary		8.7
Summary for 'HUC' = 17060207 (19 detail records)		**Sum**	*316.51*
HUC	*17060208*		
ID17060208SL004_02	Bear Creek - 1st and 2nd order		13.86

Basin	Segment Name	Length
ID17060208SL014_03	Blackmare Creek - 3rd order	4.82
ID17060208SL012_03	Buckhorn Creek - 3rd order	9.02
ID17060208SL012_04	Buckhorn Creek - 4th order	2.58
ID17060208SL026_03	Burntlog Creek - source to mouth	10.35
ID17060208SL022_03	Camp Creek - 3rd order	5.34
ID17060208SL015_02	Dollar Creek - 1st and 2nd order	22.37
ID17060208SL015_03	Dollar Creek - 3rd order	0.94
ID17060208SL023_02	East Fork South Fork Salmon River - 1st and 2nd order	104.4
ID17060208SL034_04	Elk Creek - 4th order	4.12
ID17060208SL011_03	Fitsum Creek - 3rd order	2.3
ID17060208SL021_02	Fourmile Creek - 1st and 2nd order	20.21
ID17060208SL021_03	Fourmile Creek - 3rd order	1.23
ID17060208SL025_02	Johnson Creek - 1st and 2nd order	130.96
ID17060208SL025_03	Johnson Creek - 3rd order	18.12
ID17060208SL009_03	Lick Creek - 3rd order	6.24
ID17060208SL008_02	Loon Creek - 1st and 2nd order	17.84
ID17060208SL003_02	Pony Creek - 1st and 2nd order	18.79
ID17060208SL031_02	Profile Creek - 1st and 2nd	21.38
ID17060208SL031_03	Profile Creek - 3rd order	4.13
ID17060208SL032_03	Quartz Creek - 3rd order	3.33
ID17060208SL018_02	Rice Creek - 1st and 2nd order	9.41
ID17060208SL028_03	Riordan Creek - source to mouth	3.67
ID17060208SL005_03	Secesh River - confluence of Summitt Creek and Lake Creek to	7.1
ID17060208SL005_04	Secesh River - confluence of Summitt Creek and Lake Creek to	24.33

Basin	Segment Name		Length
ID17060208SL016_02	Six-bit Creek - source to mouth		10.7
ID17060208SL010_05	South Fork Salmon River - 5th order		8.21
ID17060208SL007_02	Summit Creek - source to mouth		15.76
ID17060208SL030_03	Tamarack Creek - 3rd order		4.62
ID17060208SL017_02	Trail Creek - 1st and 2nd order		29.55
ID17060208SL027_03	Trapper Creek - 3rd order		4.33
Summary for 'HUC' = 17060208 (31 detail records)		**Sum**	*540.01*
HUC	*17060209*		
ID17060209SL029_02a	Allison Creek - headwaters to roadless boundary		5.13
ID17060209SL029_02	Allison Creek - roadless boundary to West Fork Allison Creek		4.26
ID17060209SL037_02b	Big Boulder Creek - source to mouth		7.34
ID17060209SL064_03	China Creek - source to mouth		1.83
ID17060209SL012_02	China Creek- source to Little China Creek		7.45
ID17060209SL003_03	Cottonwood Creek - unnamed trib to mouth		5.92
ID17060209SL013_02	Cow Creek - source to mouth		15.16
ID17060209SL060_03	Deep Creek - source to mouth		1.43
ID17060209SL010_03	Deer Creek - EF Deer Creek to mouth		3.17
ID17060209SL010_02	Deer Creek - source to EF Deer Creek		21.41
ID17060209SL062_03	Deer Creek - WF Deer Creek to mouth		11.29
ID17060209SL051_02	Jungle Creek - source to mouth		2.16
ID17060209SL017_02	Kessler Creek - source to South Fork Race Creek		4.44
ID17060209SL037_04	Little Slate Creek - Van Buren Cr to mouth		8.07
ID17060209SL049_02	Little Whitebird Creek - source to mouth		6.88
ID17060209SL061_03	Maloney Creek - source to mouth		1.43

Basin	Segment Name		Length
ID17060209SL054_02	Pinnacle Creek - source to mouth		5.86
ID17060209SL014_03	Race Creek - confluence West and South Fork Race Creek to mo		1.67
ID17060209SL007_03	Rice Creek - Brust Creek to mouth		8.88
ID17060209SL044_03	Skookumchuck Creek - confluence North and South Fork Skookum		3.36
ID17060209SL041_02a	Slate Creek		9.55
ID17060209SL041_02	Slate Creek - Wilderness boundary to Little Slate Creek		7.71
ID17060209SL045_02	South Fork Skookumchuck Creek - source to mouth		13.36
ID17060209SL040_02	Turnbull Creek - source to mouth		4.97
ID17060209SL039_03	Van Buren Creek - NF Van Buren Cr to mouth		2
ID17060209SL039_02	Van Buren Creek - source to NF Van Buren		10.16
Summary for 'HUC' = 17060209 (26 detail records)		**Sum**	*174.88*
HUC	*17060210*		
ID17060210SL009_02	Big Creek - source to forest/range boundary		30.63
ID17060210SL005_03	Boulder Creek - source to mouth		7.3
ID17060210SL005_02	Boulder Creek - source to mouth		45.29
ID17060210SL016_02a	Elk Creek - roadless boundary to Little Elk Creek		3.18
ID17060210SL016_02	Elk Creek - source to mouth		13.37
ID17060210SL010_02	Goose Creek - 1st and 2nd order		54.95
ID17060210SL015_03	Hard Creek - source to mouth		10.01
ID17060210SL007_02a	Little Salmon River		18.88
ID17060210SL007_02	Little Salmon River - 1st and 2nd order		52.84
ID17060210SL007_03	Little Salmon River - 3rd order		1.18
ID17060210SL001_05	Little Salmon River - Round Valley Creek to mouth		24.88
ID17060210SL008_02	Mud Creek - 1st and 2nd order		35.42

Basin	Segment Name		Length
ID17060210SL002_02	Rapid River - tribs		83.11
ID17060210SL006_02	Round Valley Creek - source to mouth		18.85
ID17060210SL002_03a	Shingle Creek - source to mouth		0.9
ID17060210SL001_03	Squaw Creek		5.61
Summary for 'HUC' = 17060210 (16 detail records)		**Sum**	*406.39*
Summary for 'Basin' = Salmon (342 detail records)		**Sum**	*5166.0*

Southwest

HUC	17050101		
ID17050101SW012_03	Little Canyon Creek - 3rd order		10.18
Summary for 'HUC' = 17050101 (1 detail record)		**Sum**	*10.180*

HUC	17050102		
ID17050102SW030_03	Big Flat Creek - 3rd order		11.48
ID17050102SW030_04	Big Flat Creek - 4th order		3.86
ID17050102SW013_05	Bruneau River - 3rd order		13.57
ID17050102SW009_06	Bruneau River - 6th order		16.92
ID17050102SW020_05	Bruneau River - Idaho/Nevada border to Jarbridge River		28.37
ID17050102SW017_03	Bull Creek - 3rd order		11.64
ID17050102SW032_02	Cherry Creek - Idaho/Nevada border to mouth		13.87
ID17050102SW034_03	Deadwood Creek - 3rd order		4.1
ID17050102SW033_02	Deer Creek - 1st and 2nd order		18.43
ID17050102SW021_02	Jarbridge River - 1st and 2nd order		67.99
ID17050102SW021_04	Jarbridge River - 4th order		32.79
ID17050102SW003_04	Little Jacks Creek - source to mouth		22.38
ID17050102SW014_03	Sheep Creek - 3rd order		14.2

Basin	Segment Name		Length
ID17050102SW014_05	Sheep Creek - 5th order		22.23
Summary for 'HUC' = 17050102 (14 detail records)		**Sum**	*281.82*
HUC	*17050103*		
ID17050103SW009_02	Reynolds Creek - 1st and 2nd order		169.64
ID17050103SW009_03	Reynolds Creek - 3rd order		16.87
ID17050103SW009_04	Reynolds Creek - 4th order		12.96
ID17050103SW012_03	Sinker Creek - source to mouth		9.2
Summary for 'HUC' = 17050103 (4 detail records)		**Sum**	*208.67*
HUC	*17050104*		
ID17050104SW025_02	Big Springs Creek - 1st and 2nd		35.89
ID17050104SW026_02	Deep Creek - 1st and 2nd order		167.19
ID17050104SW026_03a	Deep Creek - 3rd order forest		8.59
ID17050104SW001_06	Owyhee River - 6th order		51.24
Summary for 'HUC' = 17050104 (4 detail records)		**Sum**	*262.91*
HUC	*17050107*		
ID17050107SW005_03	Pole Creek - source to Idaho/Oregon border		1.46
ID17050107SW006_03	Squaw Creek - 3rd order		8.47
Summary for 'HUC' = 17050107 (2 detail records)		**Sum**	*9.9300*
HUC	*17050108*		
ID17050108SW021_04	Cow Creek - 4th order		4.3
ID17050108SW017_02	Flint Creek - source to mouth		18.62
ID17050108SW017_03	Flint Creek - source to mouth		4.35
ID17050108SW018_03	Louse Creek - 3rd order		5.49
ID17050108SW013_03	Rock Creek - 3rd order		13.29

Basin	Segment Name		Length
ID17050108SW010_03	Rock Creek -Triangle Reservoir Dam to mouth		5.06
ID17050108SW010_04	Rock Creek -Triangle Reservoir Dam to mouth		0.48
ID17050108SW003_02	Williams Creek - source to mouth		20.33
Summary for 'HUC' = 17050108 (8 detail records)		**Sum**	*71.920*

HUC *17050111*

ID17050111SW012_03	Bear River - 3rd order		8.18
ID17050111SW013_02	Big Owl/Little Owl Creeks - source to mouth		12.07
ID17050111SW008_03	Black Warrior Creek - 3rd order		2.38
ID17050111SW009_03	Browns Creek - 3rd order		1.57
ID17050111SW014_02	Crooked River - 1st and 2nd order		125.42
ID17050111SW014_03	Crooked River - 3rd order		3.86
ID17050111SW005_02	Decker Creek - 1st and 2nd order		24.34
ID17050111SW005_03	Decker Creek - 3rd order		1.15
ID17050111SW002_02	East Fork Roaring River - 1st and 2nd order		30.79
ID17050111SW002_03	East Fork Roaring River - 3rd order		8.29
ID17050111SW017_02	French Creek - 1st and 2nd order		10.83
ID17050111SW003_02	Hot Creek - 1st and 2nd order		8.08
ID17050111SW016_02	Meadow Creek - 1st and 2nd order		7.28
ID17050111SW001_02a	Middle Fork Boise River		11.21
ID17050111SW001_02	Middle Fork Boise River - 1st and 2nd order		215.97
ID17050111SW001_03	Middle Fork Boise River - 3rd order		18.45
ID17050111SW001_04	Middle Fork Boise River - 4th order		34.19
ID17050111SW010_02	North Fork Boise River - 1st and 2nd order		148.73
ID17050111SW010_03	North Fork Boise River - 3rd order		8.77

Basin	Segment Name		Length
ID17050111SW010_05	North Fork Boise River - 5th order		18.74
ID17050111SW006_02	Queens River - 1st and 2nd order		33.68
ID17050111SW015_02	Rabbit Creek - 1st and 2nd order		34.35
ID17050111SW015_03	Rabbit Creek - 3rd order		6.4
ID17050111SW004_02	Yuba River - 1st and 2nd order		32.89
ID17050111SW004_03	Yuba River - 3rd order		3.45
Summary for 'HUC' = 17050111 (25 detail records)		**Sum**	*811.06*
HUC	*17050112*		
ID17050112SW004_02	Boise River - 1st and 2nd order		38.26
ID17050112SW006_02	Brown Creek - 1st and 2nd order		4.21
ID17050112SW012_02	Elk Creek - source to mouth		44.55
ID17050112SW012_03	Elk Creek - source to mouth		11.18
ID17050112SW014_02	Granite Creek - 1st and 2nd order		65.84
ID17050112SW014_04	Granite Creek - 4th order		5.6
ID17050112SW013_03	Grimes Creek - 3rd order		8.57
ID17050112SW003_02	Grouse Creek - 1st and 2nd order		13.04
ID17050112SW015_02	Macks Creek - 1st and 2nd order		17.81
ID17050112SW017_03	Robie Creek - source to Lucky Peak Reservoir		4.55
ID17050112SW005_03	Sheep Creek - source to mouth		6.95
Summary for 'HUC' = 17050112 (11 detail records)		**Sum**	*220.55*
HUC	*17050113*		
ID17050113SW019_02	Big Smoky Creek - 1st and 2nd order		117.59
ID17050113SW019_03	Big Smoky Creek - 3rd order		9.44
ID17050113SW019_04	Big Smoky Creek - 4th order		15.79

Basin	Segment Name	Length
ID17050113SW017_03	Boardman Creek - source to mouth	5
ID17050113SW012_02	Deer Creek - 1st and 2nd order	24.86
ID17050113SW012_03	Deer Creek - 3rd order	1.28
ID17050113SW030_02	Dog Creek - source to mouth	11.13
ID17050113SW031_03	Fall Creek - 3rd order	4.81
ID17050113SW027_04	Feather Creek - 4th order	6.01
ID17050113SW027_02	Feather River - 1st and 2nd order	80.46
ID17050113SW027_03	Feather River - 3rd order	4.28
ID17050113SW029_02	Green Creek - source to mouth	7.27
ID17050113SW014_02	Grouse Creek - 1st and 2nd order	17.63
ID17050113SW022_03	Johnson Creek - source to mouth	5.54
ID17050113SW010_02	Lime Creek - 1st and 2nd order	94.58
ID17050113SW010_03	Lime Creek - 3rd order	14.24
ID17050113SW010_04	Lime Creek - 4th order	7.13
ID17050113SW018_02	Little Smoky Creek - 1st and 2nd order	136.5
ID17050113SW018_03	Little Smoky Creek - 3rd order	10.99
ID17050113SW010_04a	Moores Creek	2.69
ID17050113SW020_02	Paradise Creek - source to mouth	14.39
ID17050113SW023_03	Ross Fork - source to mouth	3.7
ID17050113SW026_02	Shake Creek - source to mouth	12.18
ID17050113SW024_03	Skeleton Creek - source to mouth	6.01
ID17050113SW013_02	South Fork Boise River - 1st and 2nd order	69.42
ID17050113SW021_02	South Fork Boise River - 1st and 2nd order	72.22
ID17050113SW021_03	South Fork Boise River - 3rd order	2.95

Basin	Segment Name		Length
ID17050113SW021_04	South Fork Boise River - 4th order		15.16
ID17050113SW013_05	South Fork Boise River - 5th order		21.88
ID17050113SW011_02	South Fork Lime Creek - 1st and 2nd order		70.94
ID17050113SW011_03	South Fork Lime Creek - 3rd order		9.37
ID17050113SW028_02	Trinity Creek - source to mouth		50.39
ID17050113SW028_04	Trinity Creek - source to mouth		4.76
ID17050113SW003_02	Wood Creek - 1st and 2nd order		29.12
ID17050113SW003_03	Wood Creek - 3rd order		2.02
Summary for 'HUC' = 17050113 (35 detail records)		**Sum**	*961.72*
HUC	*17050120*		
ID17050120SW008_02	Bear Creek - 1st and 2nd order		5.53
ID17050120SW021_03	Big Pine Creek - source to mouth		2.09
ID17050120SW021_02	Big Pine Creek - source to mouth		20.74
ID17050120SW009_03	Canyon Creek - 3rd order		6.54
ID17050120SW014_02	Deadwood River - Deadwood Reservoir Dam to mouth		76.26
ID17050120SW019_03	Deadwood River - source to Deadwood Reservoir		16.73
ID17050120SW011_03	Eightmile Creek - source to mouth		1.25
ID17050120SW002_02	Rock Creek - 1st and 2nd order		25.69
ID17050120SW020_02	Scott Creek - source to mouth		19.38
ID17050120SW001_03	South Fork Payette River - 3rd order		5.19
ID17050120SW001_04	South Fork Payette River - 4th order		35.4
ID17050120SW005_04	South Fork Payette River - source to and including Trail Cre		0.73
ID17050120SW003_02	Tenmile Creek - 1st and 2nd order		35.87
ID17050120SW015_02	Whitehawk Creek - source to mouth		19.5

Basin	Segment Name		Length
ID17050120SW017_02	Wilson Creek - source to mouth		11.86
Summary for 'HUC' = 17050120 (15 detail records)		**Sum**	*282.76*
HUC	*17050121*		
ID17050121SW002_02	Anderson Creek - 1st and 2nd order		38.36
ID17050121SW002_03	Anderson Creek - 3rd order		10
ID17050121SW004_02	Big Bulldog Creek - source to mouth		19.64
ID17050121SW009_03	Bull Creek - source to mouth		0.74
ID17050121SW003_03	Lightning Creek - 3rd order		8.29
ID17050121SW005_02	Middle Fork Payette River - 1st and 2nd order		122.02
ID17050121SW005_03	Middle Fork Payette River - 3rd order		13.15
ID17050121SW008_03	Peace Creek - source to mouth		1.13
ID17050121SW010_02	Scriver Creek - 1st and 2nd order		35.37
ID17050121SW010_03	Scriver Creek - 3rd order		6.08
ID17050121SW007_02	Silver Creek - 1st and 2nd order		23.91
ID17050121SW007_03	Silver Creek - 3rd order		6.25
Summary for 'HUC' = 17050121 (12 detail records)		**Sum**	*284.93*
HUC	*17050122*		
ID17050122SW017_03	Big Willow Creek - 3rd order		15.82
ID17050122SW005_03	Harris Creek - source to mouth		6.32
ID17050122SW005_02	Harris Creek - source to mouth		33.95
ID17050122SW011_03	Little Squaw Creek - source to mouth		9.69
ID17050122SW013_02	Pine Creek - 1st and 2nd order		34.26
ID17050122SW014_02	Second Fork Squaw Creek - 1st and 2nd order		42.46
ID17050122SW014_03	Second Fork Squaw Creek - 3rd order		8.42

Basin	Segment Name		Length
ID17050122SW004_03	Shafer Creek - source to mouth		9.49
ID17050122SW004_04	Shafer Creek - source to mouth		3.71
ID17050122SW010_02	Squaw Creek - 1st and 2nd order forested		47.74
ID17050122SW010_03	Squaw Creek - 3rd order		18.75
ID17050122SW010_02a	Squaw Creek -1st and 2nd order rangeland		137.47
Summary for 'HUC' = 17050122 (12 detail records)		**Sum**	*368.08*
HUC	*17050123*		
ID17050123SW004_02	Big Creek - source to mouth		55.48
ID17050123SW022_02	Fisher Creek - 1st and 2nd order		22.75
ID17050123SW009_02	Flat Creek - source to mouth		10.19
ID17050123SW008_03	Gold Fork - 3rd order		3.3
ID17050123SW008_04	Gold Fork - 4th order		5.52
ID17050123SW010_02	Kennally Creek - source to mouth		92.18
ID17050123SW010_03	Kennally Creek - source to mouth		9.25
ID17050123SW010_04	Kennally Creek - source to mouth		6.22
ID17050123SW001_02	North Fork Payette River - 1st and 2nd order		141.21
ID17050123SW018_03	North Fork Payette River - 3rd order		11.37
ID17050123SW016_04	North Fork Payette River - Payette Lake to Cascade Reservoir		20.43
ID17050123SW021_02	North Fork Payette River - source to Upper Payette Lake		18.33
ID17050123SW020_02	Twentymile Creek - 1st and 2nd order		10.75
ID17050123SW020_03	Twentymile Creek - 3rd order		3.2
Summary for 'HUC' = 17050123 (14 detail records)		**Sum**	*410.18*
HUC	*17050124*		
ID17050124SW015_03	Cottonwood Creek - source to mouth		7.37

Basin	Segment Name	Length
ID17050124SW016_03	East Fork Weiser River - source to mouth	2.29
ID17050124SW016_02	East Fork Weiser River - source to mouth	32.07
ID17050124SW023_02	Goodrich Creek - source to mouth	20.26
ID17050124SW021_02	Hornet Creek - source to mouth	96.34
ID17050124SW020_02	Lost Creek - source to Lost Valley Reservoir	26.18
ID17050124SW030_03	Mann Creek - 3rd order	17.72
ID17050124SW032_03	Mann Creek - source to Mann Creek Reservoir	10.13
ID17050124SW014_03	Middle Fork Weiser River - source to mouth	21.79
ID17050124SW014_02	Middle Fork Weiser River - source to mouth	78.82
ID17050124SW027_02	Pine Creek - 1st and 2nd order	82
ID17050124SW027_03	Pine Creek - 3rd order	14.67
ID17050124SW007_02	Weiser River - source to Keithly Creek	206.67
ID17050124SW007_03	Weiser River - source to Keithly Creek	16.9
ID17050124SW007_04	Weiser River - source to Keithly Creek	16.3
Summary for 'HUC' = 17050124 (15 detail records)	**Sum**	*649.50*

HUC	17050201	
ID17050201SW016_02	Bear Creek - 1st and 2nd order	86.61
ID17050201SW016_04	Bear Creek - 4th order	7.41
ID17050201SW014_02	Brownlee Creek - 1st & 2nd order	64.04
ID17050201SW014_04	Brownlee Creek - 4th order	2.06
ID17050201SW009_02	Grouse Creek - 1st and 2nd order	14.5
ID17050201SW017_02	Indian Creek - source to mouth	45.04
ID17050201SW005_02	Jenkins Creek - source to mouth	22.73
ID17050201SW013_02	Sturgill Creek - 1st and 2nd order	27.51

Basin	Segment Name		Length
ID17050201SW001_02	Tributaries to Snake River - 1st and 2nd order		33.29
ID17050201SW007_02	Warm Springs Creek - 1st and 2nd order		32.62
ID17050201SW015_02	Wildhorse River - 1st and 2nd order		73.99
ID17050201SW011_03	Wolf Creek - 3rd order		3.9
Summary for 'HUC' = 17050201 (12 detail records)		**Sum**	*413.69*
Summary for 'Basin' = Southwest (184 detail records)		**Sum**	*5247.9*

Upper Snake

HUC	17040104		
ID17040104SK005_04	Fall Creek - South Fork Fall Creek to mouth		5.81
ID17040104SK012_03	North Fork Bear Creek - source to mouth		2.66
ID17040104SK003_02	Snake River - Fall Creek to Black Canyon Creek		76.04
ID17040104SK007_02	South Fork Fall Creek - source to mouth		17.47
ID17040104SK007_03	South Fork Fall Creek - source to mouth		5.07
Summary for 'HUC' = 17040104 (5 detail records)		**Sum**	*107.05*

HUC	17040105		
ID17040105SK003_02e	Bear Canyon		3.11
ID17040105SK006_02b	Bechler Creek		5.41
ID17040105SK004_02a	Brush Creek		3.59
ID17040105SK008_02b	Clear Creek		4.5
ID17040105SK003_02f	Corral Creek		3.7
ID17040105SK004_02b	Crooked Creek		3.36
ID17040105SK008_04	Crow Creek		10.42
ID17040105SK008_03b	Crow Creek		7.49
ID17040105SK002_02a	Deep Creek		9.58

Basin	Segment Name	Length
ID17040105SK005_02c	Deer Creek	4.8
ID17040105SK010_03	Deer Creek - source to mouth	3.17
ID17040105SK006_02a	Flat Valley Creek	2.82
ID17040105SK006_02g	Graehl Canyon	1.4
ID17040105SK006_02i	Horse Creek	10.18
ID17040105SK003_02d	Houtz Creek	1.14
ID17040105SK006_02e	Hyde Canyon	7.04
ID17040105SK002_03	Jackknife Creek - source to Idaho/Wyoming border	6.65
ID17040105SK001_02a	King Creek	5.66
ID17040105SK003_02c	Lau Creek	2.04
ID17040105SK005_02a	Limekiln Creek	4.29
ID17040105SK012_02a	Little Elk Creek	8.38
ID17040105SK006_03a	lower Boulder Creek	2.88
ID17040105SK006_04	lower Stump Creek	10.44
ID17040105SK003_02h	Marshall Canyon	2.11
ID17040105SK009_02b	middle Sage Creek	2.09
ID17040105SK006_02h	Mill Canyon	3.81
ID17040105SK003_02a	Rich Creek	1.5
ID17040105SK009_03	Sage Creek - source to mouth	3.22
ID17040105SK004_02	South Fork Tincup Creek - source to mouth	12.92
ID17040105SK012_03	Spring Creek	1.2
ID17040105SK002_03a	Squaw Creek	3.1
ID17040105SK003_03	Tincup Creek - source to Idaho/Wyoming border	19.4
ID17040105SK005_02b	Toms Canyon	7.19

Basin	Segment Name		Length
ID17040105SK002_02b	Trail Creek		12.08
ID17040105SK007_02d	Tygee Creek		24.2
ID17040105SK007_03	Tygee Creek - source to mouth		5.98
ID17040105SK009_02a	upper Sage Creek		3.09
ID17040105SK006_03	upper Stump Creek		3.04
ID17040105SK007_02e	upper Webster Creek		9.15
ID17040105SK008_03a	Wells Canyon		1.16
ID17040105SK003_02b	Whiskey Creek		1.56
ID17040105SK008_02a	White Dugway Creek		5.29
Summary for 'HUC' = 17040105 (42 detail records)		**Sum**	*244.13*
HUC	*17040202*		
ID17040202SK036_02	Duck Creek - source to mouth		14.53
ID17040202SK013_02	Fish Creek - source to mouth		24.39
ID17040202SK021_02	Henrys Fork - Confluence of Big Springs and Henrys Lake Outl		18.4
ID17040202SK014_05	Henrys Fork - Thurman Creek to Warm River		26.58
ID17040202SK025_04	Henrys Lake Outlet - Henrys Lake Dam to mouth		20.07
ID17040202SK040_03	Hotel Creek - source to mouth		3.52
ID17040202SK040_02	Hotel Creek - source to mouth		21.76
ID17040202SK029_02	Jesse Creek - source to mouth		5.85
ID17040202SK028_02	Jones Creek - source to mouth		7.16
ID17040202SK047_02	Myers Creek - source to mouth		20.78
ID17040202SK027_03	Reas Pass Creek - source to sink		1.99
ID17040202SK011_03	Robinson Creek - Idaho/Wyoming border and sources west of bo		13.65
ID17040202SK010_02	Rock Creek - source to Wyoming Creek		9.48

Basin	Segment Name		Length
ID17040202SK008_03	Rock Creek - Wyoming Creek to mouth		7.72
ID17040202SK012_02	Snow Creek - source to mouth		16.54
ID17040202SK024_02	Thirsty Creek - Idaho/ Wyoming border to mouth		37.64
ID17040202SK030_02	Twin Creek - source to mouth		8.55
ID17040202SK031_02	Tygee Creek - source to sink		10.45
ID17040202SK002_04	Warm River - Warm River Spring to mouth		8.74
ID17040202SK041_02	Yale Creek - source to mouth		11.25
Summary for 'HUC' = 17040202 (20 detail records)		**Sum**	*289.04*
HUC	*17040203*		
ID17040203SK006_04	Conant Creek - Idaho/Wyoming border to Squirrel Creek		6.21
ID17040203SK005_05	Conant Creek - Squirrel Creek to mouth		4.88
ID17040203SK008_03	Falls River - Boone Creek to Conant Creek		17.09
Summary for 'HUC' = 17040203 (3 detail records)		**Sum**	*28.180*
HUC	*17040204*		
ID17040204SK059_03	Badger Creek - source to diversion (NW ¼, SW ¼, Sec. 9, T6N,		2.18
ID17040204SK065_03	Bitch Creek - Idaho/Wyoming border to Swanner Creek		9.08
ID17040204SK063_04	Bitch Creek - Swanner Creek to mouth		7.41
ID17040204SK008_02	Canyon Creek - Warm Creek to mouth		116.39
ID17040204SK008_04	Canyon Creek - Warm Creek to mouth		11.25
ID17040204SK032_02	Drake Creek - source to mouth		5.43
ID17040204SK037_02	Game Creek - source to diversion (SW ¼, SW ¼, Sec. 17, T3N,		0.72
ID17040204SK027_02	Henderson Creek - source to sink		2.92
ID17040204SK022_02	Horseshoe Creek - source to pipeline diversion (SE ¼, NW ¼,		15.29
ID17040204SK022_03	Horseshoe Creek - source to pipeline diversion (SE ¼, NW ¼,		2.23

Basin	Segment Name		Length
ID17040204SK033_02	Little Pine Creek - source to mouth		11.6
ID17040204SK024_03	Mahogany Creek - pipeline diversion (NE ¼, Sec. 27, T4N, R44		7
ID17040204SK013_02	Milk Creek - source to mouth		42.93
ID17040204SK039_02	Moose Creek - Idaho/Wyoming border to mouth		1.28
ID17040204SK030_02	Patterson Creek - source to pump diversion (SE ¼, Sec. 31, T		5.21
ID17040204SK001_05	South Fork Teton River - Teton River Forks to Henrys Fork		33.16
ID17040204SK053_03	South Leigh Creek - Idaho/Wyoming border to SE ¼, NE ¼, Sec.		9.7
ID17040204SK047_02	Teton Creek - Highway 33 bridge to mouth, including spring c		6.34
ID17040204SK048_02	Teton Creek - Idaho/Wyoming border to Highway 33 bridge		5.73
ID17040204SK017_04	Teton River - Cache Bridge (NW ¼, NE ¼, Sec. 1, T5N, R44E) t		13.92
ID17040204SK028_03	Teton River - confluence of Warm Creek and Drake Creek to Tr		2.6
ID17040204SK038_03	Trail Creek - Idaho/Wyoming border to Trail Creek pipeline d		3
ID17040204SK038_02	Trail Creek - Idaho/Wyoming border to Trail Creek pipeline d		7.44
ID17040204SK035_02	Trail Creek - Trail Creek pipeline diversion (SW ¼, SE ¼, Se		7.87
ID17040204SK023_02	Twin Creek - source to mouth		9.94
Summary for 'HUC' = 17040204 (25 detail records)		**Sum**	*340.61*
HUC	*17040205*		
ID17040205SK023_02	Gravel Creek - source to mouth		21.55
ID17040205SK009_03	Mud Creek - source to mouth		1.09
ID17040205SK010_02	Sellars Creek - source to mouth		16.77
ID17040205SK011_04	Willow Creek - Crane Creek to Mud Creek		8.4
Summary for 'HUC' = 17040205 (4 detail records)		**Sum**	*47.809*
HUC	*17040206*		
ID17040206SK010_02a	Crystal Creek		6.82

Basin	Segment Name		Length
ID17040206SK013_02	Michaud Creek - source to mouth		18.64
ID17040206SK012_02	Midnight Creek - source to mouth		14.67
Summary for 'HUC' = 17040206 (3 detail records)		**Sum**	*40.129*

HUC *17040207*

ID17040207SK016_02c	Bear Canyon		2.43
ID17040207SK002_02a	Beaver Creek		7.11
ID17040207SK020_02	Browns Canyon		10.04
ID17040207SK016_02a	Cabin Creek		3.42
ID17040207SK016_02g	Campbell Canyon		2.16
ID17040207SK029_03	Cedar Creek - source to mouth		2.1
ID17040207SK018_02d	Corrailsen Creek		3.91
ID17040207SK016_02b	Coyote Creek		2.88
ID17040207SK027_02a	Horse Creek		11.07
ID17040207SK028_02a	Menassa Creek		2.4
ID17040207SK022_03a	middle Sheep Creek		3.53
ID17040207SK010_02	Mill Canyon (west)		35.54
ID17040207SK028_02	Miner Creek - source to mouth		15.69
ID17040207SK027_02	Rawlins Creek - source to mouth		6.21
ID17040207SK022_02	Sheep Creek - source to mouth		13.49
ID17040207SK016_02f	Stewart Canyon		2.98
ID17040207SK008_03	Thompson Creek - source to mouth		2.32
ID17040207SK016_02d	Timber Creek		5.55
ID17040207SK018_02b	upper Daves Creek		3.03
ID17040207SK016_02h	upper Kendall Creek		1.56

Basin	Segment Name		Length
ID17040207SK021_02a	upper Olsen Creek		3.04
ID17040207SK017_02a	upper Timothy Creek		4.95
ID17040207SK011_03a	upper Trail Creek		1.08
Summary for 'HUC' = 17040207 (23 detail records)		**Sum**	*146.49*

HUC *17040208*

ID17040208SK002_02	City Creek - source to mouth		6.48
ID17040208SK022_02b	Clear Creek		2.84
ID17040208SK001_02a	Cusick Creek		4.94
ID17040208SK017_02b	Deer Creek		3.28
ID17040208SK017_02d	Dempsey Creek		18.45
ID17040208SK016_02b	East Bob Smith Creek		6.75
ID17040208SK017_02a	East Creek		11.05
ID17040208SK004_02d	East Fork Mink Creek		6.73
ID17040208SK016_03a	Fish Creek		4.8
ID17040208SK016_02d	Harkness Creek		5.68
ID17040208SK023_03b	Inman Creek		2.32
ID17040208SK016_02a	King Creek		21.9
ID17040208SK006_02e	Left Hand Fork Marsh Creek		6.9
ID17040208SK021_02a	Little Toponce Creek		5.23
ID17040208SK008_02b	lower Bell Marsh Creek		2.68
ID17040208SK009_02	lower Goodenough Creek		7.65
ID17040208SK022_03	lower Pebble Creek		6.06
ID17040208SK016_02g	Lower Rock Creek		6.65
ID17040208SK021_03	lower Toponce Creek		4.24

Basin	Segment Name	Length
ID17040208SK007_02	lower Walker Creek	2.89
ID17040208SK021_02c	Middle Fork Toponce Creek	8.28
ID17040208SK021_03a	middle Toponce Creek	4.22
ID17040208SK015_02a	Mill Creek	13.05
ID17040208SK004_04a	Mink Creek	1.52
ID17040208SK022_02d	North Fork Pebble Creek	12.87
ID17040208SK022_03a	North Fork Pebble Creek	0.99
ID17040208SK021_02b	North Fork Toponce Creek	6.81
ID17040208SK016_02e	Robbers Roost Creek	7.16
ID17040208SK023_02d	Sawmill Creek	4.29
ID17040208SK004_02c	South Fork Mink Creek	6.77
ID17040208SK022_02c	South Fork Pebble Creek	6.47
ID17040208SK021_02d	South Fork Toponce Creek	18.35
ID17040208SK006_02d	upper Aspen Creek	5.05
ID17040208SK008_02a	upper Bell Marsh Creek	6.71
ID17040208SK014_02a	upper Cherry Creek	10.03
ID17040208SK010_02a	upper Garden Creek	9.49
ID17040208SK003_02a	upper Gibson Jack Creek	14.66
ID17040208SK009_02a	upper Goodenough Creek	7.65
ID17040208SK023_02e	upper Moonlight Creek	2.76
ID17040208SK022_02a	upper Pebble Creek/Big Canyon	9.23
ID17040208SK016_02f	Upper Rock Creek	4.6
ID17040208SK007_02a	upper Walker Creek	10.72
ID17040208SK006_02b	upper Yago Creek	4.5

Basin	Segment Name		Length
ID17040208SK023_02c	Webb Creek		10.19
ID17040208SK016_02c	West Bob Smith Creek		4.1
ID17040208SK004_02b	West Fork Mink Creek		8.71
ID17040208SK023_02g	West Fork Rapid Creek		6.57
Summary for 'HUC' = 17040208 (47 detail records)		**Sum**	*343.26*
HUC	*17040209*		
ID17040209SK010_02	East Fork Rock Creek - source to mouth		23.25
ID17040209SK011_07	Snake River - American Falls Reservoir Dam to Rock Creek		13.57
ID17040209SK012_02	Warm Creek - source to mouth		23.06
Summary for 'HUC' = 17040209 (3 detail records)		**Sum**	*59.879*
HUC	*17040210*		
ID17040210SK007_03	Cassia Creek - source to Clyde Creek		7.11
ID17040210SK004_02	Conner Creek - source to mouth		23.69
ID17040210SK012_02	Edwards Creek - source to mouth		68.21
ID17040210SK011_02	Grape Creek - source to mouth		62.16
ID17040210SK022_03	Lake Fork - source to Sublett Reservoir		1.34
Summary for 'HUC' = 17040210 (5 detail records)		**Sum**	*162.50*
HUC	*17040211*		
ID17040211SK001_03	Big Cottonwood Creek - source to mouth		17.48
ID17040211SK001_02	Big Cottonwood Creek - source to mouth		64.96
ID17040211SK009_02	Birch Creek - Idaho/Utah border to mouth		8.67
ID17040211SK005_02	Goose Creek - Beaverdam Creek to Lower Goose Creek Res ervoi		86.73
ID17040211SK005_03	Goose Creek - Beaverdam Creek to Lower Goose Creek Res ervoi		7.18
ID17040211SK008_04	Goose Creek - source to Idaho/Utah border		6.07

Basin	Segment Name		Length
ID17040211SK008_03	Goose Creek - source to Idaho/Utah border		3.13
ID17040211SK013_03	Mill Creek - source to mouth		4.31
ID17040211SK004_02	Trapper Creek - source to Squaw Creek		32.58
ID17040211SK004_03	Trapper Creek - source to Squaw Creek		8.95
ID17040211SK007_02	Trout Creek - source to Idaho/Utah border		19.97
Summary for 'HUC' = 17040211 (11 detail records)		**Sum**	*260.03*
HUC	*17040212*		
ID17040212SK039_03	Deer Creek - source to mouth		0.87
ID17040212SK022_02	Dry Creek - source to mouth		45.86
ID17040212SK024_02	East Fork Dry Creek - source to mouth		14.76
ID17040212SK017_02	Fifth Fork Rock Creek - source to mouth		26.23
ID17040212SK018_04	Rock Creek - source to Fifth Fork Rock Creek		8.12
ID17040212SK018_03	Rock Creek - source to Fifth Fork Rock Creek		6.64
ID17040212SK018_02	Rock Creek - source to Fifth Fork Rock Creek		54.36
ID17040212SK027_02	Vinyard Creek - Vinyard Lake to mouth		10.81
Summary for 'HUC' = 17040212 (8 detail records)		**Sum**	*167.65*
HUC	*17040213*		
ID17040213SK006_03	Cedar Creek - source to Cedar Creek Reservoir		3.52
ID17040213SK012_04	Hot Creek - Idaho/Nevada border to mouth		0.11
ID17040213SK005_03	House Creek - source to Cedar Creek Reservoir		10.23
ID17040213SK003_06	Salmon Falls Creek - Salmon Falls Creek Dam to Devil Creek		27.57
Summary for 'HUC' = 17040213 (4 detail records)		**Sum**	*41.429*
HUC	*17040214*		
ID17040214SK006_02	Ching Creek - source to mouth		83.98

Basin	Segment Name		Length
ID17040214SK010_03	East Camas Creek - from and including Larkspur Creek to T13N		4.26
ID17040214SK022_02	Idaho Creek - source to mouth		8.68
ID17040214SK023_02	Pleasant Valley Creek - source to mouth		23.34
ID17040214SK013_02	West Camas Creek - source to Targhee National Forest Boundar		52.56
ID17040214SK012_02	West Camas Creek - Targhee National Forest Boundary (T13N, R		12.84
Summary for 'HUC' = 17040214 (6 detail records)		**Sum**	*185.66*
HUC	*17040215*		
ID17040215SK011_03	Medicine Lodge Creek - confluence of Warm and Fritz Creeks t		1.83
ID17040215SK011_04	Medicine Lodge Creek - confluence of Warm and Fritz Creeks t		3.83
ID17040215SK013_03	Warm Creek - source to mouth		2.44
Summary for 'HUC' = 17040215 (3 detail records)		**Sum**	*8.1000*
HUC	*17040216*		
ID17040216SK002_04	Birch Creek - Pass Creek to Reno Ditch		9.09
ID17040216SK009_02	Willow Creek - source to mouth		25.34
Summary for 'HUC' = 17040216 (2 detail records)		**Sum**	*34.430*
HUC	*17040217*		
ID17040217SK016_02	Bear Creek - source to mouth		4.67
ID17040217SK001_02	Little Lost River - canal (T06N, R28E) to playas		14.55
ID17040217SK017_02	Main Fork - source to mouth		15.65
ID17040217SK017_03	Main Fork - source to mouth		2.69
ID17040217SK004_02	North Creek - source to mouth		23.74
ID17040217SK012_02	Sawmill Creek - Warm Creek to mouth		33.16
ID17040217SK019_02	Summit Creek - source to mouth		3.77
ID17040217SK018_02	Timber Creek - source to mouth		10.8

Basin	Segment Name		Length
ID17040217SK005_02	Uncle Ike Creek - source to mouth		30.62
ID17040217SK013_02	Warm Creek - source to mouth		4.97
ID17040217SK001_02a	Warm Spring Creek		153.71
Summary for 'HUC' = 17040217 (11 detail records)		**Sum**	*298.33*

HUC *17040218*

ID17040218SK045_03	Alder Creek - source to mouth		9.37
ID17040218SK045_02	Alder Creek - source to mouth		64.5
ID17040218SK052_02	Antelope Creek - Iron Bog Creek to Dry Fork Creek		24.21
ID17040218SK052_04	Antelope Creek - Iron Bog Creek to Dry Fork Creek		12.45
ID17040218SK053_03	Bear Creek - source to mouth		5.09
ID17040218SK053_02	Bear Creek - source to mouth		23.57
ID17040218SK049_04	Cherry Creek - confluence of Left Fork Cherry and Lupine Cre		13.46
ID17040218SK034_02	Fox Creek - source to mouth		9.04
ID17040218SK054_03	Iron Bog Creek - confluence of Left and Right Fork Iron Bog		2.15
ID17040218SK029_02	Kane Creek - source to mouth		18.06
ID17040218SK038_02	Lake Creek - source to mouth		14.27
ID17040218SK058_02	Leadbelt Creek - source to mouth		16.82
ID17040218SK051_02	Left Fork Cherry Creek - source to mouth		16.19
ID17040218SK056_02	Left Fork Iron Bog Creek - source to mouth		6.78
ID17040218SK050_04	Lupine Creek - source to mouth		4.72
ID17040218SK037_02	Muldoon Canyon Creek - source to mouth		25.94
ID17040218SK044_02	Navarre Creek - source to mouth		20.87
ID17040218SK044_03	Navarre Creek - source to mouth		3.19
ID17040218SK027_02	North Fork Big Lost River - source to mouth		67.88

Basin	Segment Name		Length
ID17040218SK055_02	Right Fork Iron Bog Creek - source to mouth		16.3
ID17040218SK019_02	Rock Creek - source to mouth		16.8
ID17040218SK035_02	Star Hope Creek - Lake Creek to mouth		17.1
ID17040218SK036_02	Star Hope Creek - source to Lake Creek		20.42
ID17040218SK028_03	Summit Creek - source to mouth		0.55
ID17040218SK028_02	Summit Creek - source to mouth		33.33
ID17040218SK030_02	Wildhorse Creek - Fall Creek to mouth		7.56
ID17040218SK031_02	Wildhorse Creek - source to Fall Creek		26.83
Summary for 'HUC' = 17040218 (27 detail records)		**Sum**	*497.44*

HUC	17040219		
ID17040219SK021_03	Baker Creek - source to mouth		7.75
ID17040219SK021_02	Baker Creek - source to mouth		50.55
ID17040219SK007_04	Big Wood River - North Fork Big Wood River to Seamans Creek		8.75
ID17040219SK007_03	Big Wood River - North Fork Big Wood River to Seamans Creek		8.5
ID17040219SK007_02	Big Wood River - North Fork Big Wood River to Seamans Creek		82.69
ID17040219SK018_04	Big Wood River - source to North Fork Big Wood River		13.06
ID17040219SK018_02	Big Wood River - source to North Fork Big Wood River		115.26
ID17040219SK018_03	Big Wood River - source to North Fork Big Wood River		6.84
ID17040219SK019_02	Boulder Creek - source to mouth		11.12
ID17040219SK027_02	Croy Creek - source to mouth		37.34
ID17040219SK026_02	Deer Creek - source to mouth		61.66
ID17040219SK026_03	Deer Creek - source to mouth		12.85
ID17040219SK010_04	East Fork Wood River - Hyndman Creek to mouth		6.22
ID17040219SK022_02	Fox Creek - source to mouth		9.67

Basin	Segment Name		Length
ID17040219SK012_03	Hyndman Creek - source Creek to mouth		8.1
ID17040219SK017_03	North Fork Big Wood River - source to mouth		5.67
ID17040219SK017_02	North Fork Big Wood River - source to mouth		38.7
ID17040219SK020_03	Prairie Creek - source to mouth		2.64
ID17040219SK020_02	Prairie Creek - source to mouth		17.83
ID17040219SK028_03	Rock Creek - source to mouth		9.23
ID17040219SK013_04	Trail Creek - Corral Creek to mouth		9.95
ID17040219SK014_03	Trail Creek - source to and including Corral Creek		6.26
ID17040219SK014_02	Trail Creek - source to and including Corral Creek		60.06
ID17040219SK024_04	Warm Springs Creek - source to and including Thompson Creek		5.12
ID17040219SK023_02	Warm Springs Creek - Thompson Creek to mouth		40.42
ID17040219SK023_04	Warm Springs Creek - Thompson Creek to mouth		13.5
Summary for 'HUC' = 17040219 (26 detail records)		**Sum**	*649.74*
HUC	*17040220*		
ID17040220SK004_02	Beaver Creek - source to mouth		14.14
ID17040220SK004_03	Beaver Creek - source to mouth		0.73
ID17040220SK019_02	Chimney Creek - source to mouth		31.98
ID17040220SK016_02	East Fork Corral Creek - source to mouth		14.59
ID17040220SK012_02	Soldier Creek - source to and including Wardrop Creek		60.9
ID17040220SK011_03	Soldier Creek - Wardrop Creek to mouth		5.91
ID17040220SK017_02	West Fork Corral Creek - source to mouth		10.3
ID17040220SK005_02	Willow Creek - source to Beaver Creek		53.19
Summary for 'HUC' = 17040220 (8 detail records)		**Sum**	*191.74*
HUC	*17040221*		

Basin	Segment Name		Length
ID17040221SK021_04	Baugh Creek - source to mouth		3.79
ID17040221SK019_02	Friedman Creek - source to Trail Creek		11.12
ID17040221SK017_03	Friedman Creek - Trail Creek to mouth		5.93
ID17040221SK020_04	Little Wood River - source to Muldoon Creek		12.79
ID17040221SK020_03	Little Wood River - source to Muldoon Creek		7.36
ID17040221SK018_02	Trail Creek - source to mouth		16.21
Summary for 'HUC' = 17040221 (6 detail records)		**Sum**	*57.199*
Summary for 'Basin' = Upper Snake (292 detail records)		**Sum**	*4200.8*
		Grand Total	*18490.55*

Section 3: Lakes Not Assessed

Basin	*Segment Name*		*Length*
Bear			
HUC	*16010201*		
ID16010201BR018_0L	Bear Lake		34438.
ID16010201BR024_02	Soda Creek Reservoir		202.63
Summary for 'HUC' = 16010201 (2 detail records)		**Sum**	*3464*
HUC	*16010202*		
ID16010202BR016_02	Twin Lakes Reservoir		437.37
Summary for 'HUC' = 16010202 (1 detail record)		**Sum**	*437.3*
HUC	*16010204*		
ID16010204BR009L_0L	Daniels Reservoir		724.02
ID16010204BR009_02	Daniels Reservoir		35.11
ID16010204BR003_02	Devil Creek Reservoir		170.5
Summary for 'HUC' = 16010204 (3 detail records)		**Sum**	*929.6*
Summary for 'Basin' = Bear (6 detail records)		**Sum**	*36008.*
Clearwater			
HUC	*17060308*		
ID17060308CL002_05			24.68
ID17060308CL002_03			11.06
ID17060308CL002_06			38.76
Summary for 'HUC' = 17060308 (3 detail records)		**Sum**	*74.49*
Summary for 'Basin' = Clearwater (3 detail records)		**Sum**	*74.499*
Panhandle			

Basin	Segment Name		Length
HUC	*17010104*		
ID17010104PN023_0L	McArthur Lake		336.06
Summary for 'HUC' = 17010104 (1 detail record)		**Sum**	*336.0*
HUC	*17010214*		
ID17010214PN006_02	Beaver Lake		9.78
ID17010214PN008_02	Blanchard Lake		43.86
ID17010214PN008_04	Blanchard Lake		4.7
ID17010214PN018_02b	Boyer Slough		12.33
ID17010214PN013_02	Cocolalla Lake		18.2
ID17010214PN019_02	Gamble Lake		101.31
ID17010214PN005_02	Granite Lake		3.51
ID17010214PN005L_0L	Granite Lake		17.3
ID17010214PN011_03	Jewell Lake		1.83
ID17010214PN011_02	Jewell Lake		8.63
ID17010214PN004_02	Kelso Lake and outlet		7.96
ID17010214PN020_02	Mirror Lake		84.02
ID17010214PN018_02	Pend Oreille Lake		27.89
ID17010214PN017_0L	Shepard Lake		96.37
ID17010214PN009_02	Spirit Lake		3.88
ID17010214PN040_02	Walsh Lake		37.07
Summary for 'HUC' = 17010214 (16 detail records)		**Sum**	*478.6*
HUC	*17010215*		
ID17010215PN007_02	Chase Lake		1.58
ID17010215PN007L_0L	Chase Lake		174.21

Basin	Segment Name		Length
ID17010215PN014_04	Priest Lake Thorofare - Upper Priest Lake to Priest Lake		2.75
ID17010215PN016_02	Upper Priest Lake		6.34
ID17010215PN016L_0L	Upper Priest Lake		1339.3
Summary for 'HUC' = 17010215 (5 detail records)		**Sum**	*1524.*

HUC *17010303*

ID17010303PN008_02	Anderson Lake		4.38
ID17010303PN008L_0L	Anderson Lake		541.15
ID17010303PN009_02	Black Lake		23.34
ID17010303PN009_03	Black Lake		1.01
ID17010303PN024L_0L	Blue Lake		227.34
ID17010303PN024_02	Blue Lake		9.8
ID17010303PN014_02	Bull Run Lake		79.07
ID17010303PN022_03	Killarney Lake		1.58
ID17010303PN022L_0L	Killarney Lake		499.15
ID17010303PN022_02	Killarney Lake		17.67
ID17010303PN010_02	Medicine Lake		9.52
ID17010303PN010L_0L	Medicine Lake		988.42
ID17010303PN010_03	Medicine Lake		0.53
ID17010303PN021L_0L	Rose Lake		316.29
ID17010303PN021_02	Rose Lake		8.17
ID17010303PN023_02	Swan Lake		6.49
ID17010303PN023L_0L	Swan Lake		444.79
ID17010303PN025L_0L	Thompson Lake		173.46
Summary for 'HUC' = 17010303 (18 detail records)		**Sum**	*3352.*

Basin	Segment Name		Length
HUC	*17010304*		
ID17010304PN001_02	Chatcolet Lake		4.77
ID17010304PN001L_0L	Chatcolet Lake		3545.9
Summary for 'HUC' = 17010304 (2 detail records)		**Sum**	*3550.*
HUC	*17010305*		
ID17010305PN016_02	Hauser Lake		9.25
ID17010305PN005_02	Hayden Lake		23.73
ID17010305PN013_02	Twin Lakes		4.85
Summary for 'HUC' = 17010305 (3 detail records)		**Sum**	*37.82*
Summary for 'Basin' = Panhandle (45 detail records)		**Sum**	*9279.6*
Salmon			
HUC	*17060201*		
ID17060201SL078L_0L	Alturas Lake		825.33
ID17060201SL078_02	Alturas Lake		1.49
ID17060201SL077_02	Pettit Lake		491.74
ID17060201SL066L_0L	Redfish Lake		1512.2
ID17060201SL066_02	Redfish Lake		9.1
ID17060201SL076_02	Toxaway/Farley Lake - source to mouth		12.32
Summary for 'HUC' = 17060201 (6 detail records)		**Sum**	*2852.*
HUC	*17060208*		
ID17060208SL020L_0L	Warm Lake		412.17
Summary for 'HUC' = 17060208 (1 detail record)		**Sum**	*412.1*
HUC	*17060210*		
ID17060210SL011_02	Brundage Reservoir		3.79

Basin	Segment Name		Length
ID17060210SL012L_0L	Goose Lake		365.71
ID17060210SL012_02	Goose Lake		4.16
Summary for 'HUC' = 17060210 (3 detail records)		**Sum**	*373.6*
Summary for 'Basin' = Salmon (10 detail records)		**Sum**	*3638.0*

Southwest

HUC 17050101

ID17050101SW002_02	Dune's Lake		37.07
ID17050101SW022_04	Fraiser Reservoir		2.93
ID17050101SW017L_0L	Hot Springs Reservoir		274.29
ID17050101SW017_02	Hot Springs Reservoir		18.43
ID17050101SW020L_0L	Mountain Home Reservoir		405.25
ID17050101SW020_02	Mountain Home Reservoir		29.07
Summary for 'HUC' = 17050101 (6 detail records)		**Sum**	*767.0*

HUC 17050102

ID17050102SW001L_0L	C.J. Strike Reservoir		2053.4
ID17050102SW001_02	C.J. Strike Reservoir		6.87
Summary for 'HUC' = 17050102 (2 detail records)		**Sum**	*2060.*

HUC 17050104

ID17050104SW016_02T			0.01
ID17050104SW017_02T			0.01
ID17050104SW008L_0LT	Boyle Creek		0.01
ID17050104SW008_02	Boyle Creek Reservoir (Mt. View Lake)		3.45
ID17050104SW008_03	Boyle Creek Reservoir (Mt. View Lake)		2.49
ID17050104SW008L_0L	Boyle Creek Reservoir (Mt. View Lake)		417.34

Basin	Segment Name		Length
ID17050104SW020_02	Henry Lake		170.5
ID17050104SW005_02	Juniper Creek - 1st and 2nd order		35.94
ID17050104SW005_03	Juniper Creek - 3rd order		5.25
ID17050104SW019_02	Juniper Lake		387.95
ID17050104SW016_02	Little Jarvis Lake		281.69
ID17050104SW018_02	Ross Lake		1000.7
ID17050104SW017_02	Rough Little Lake		331.11
Summary for 'HUC' = 17050104 (13 detail records)		**Sum**	*2636.*
HUC	*17050105*		
ID17050105SW003_04	Bull Camp Reservoir		4.61
ID17050105SW003_03	Bull Camp Reservoir		1.62
ID17050105SW003_02	Bull Camp Reservoir		16.33
ID17050105SW004_04	Homer Wells Reservoir		6.33
ID17050105SW004_03	Homer Wells Reservoir		12.43
ID17050105SW004_02	Homer Wells Reservoir		86
Summary for 'HUC' = 17050105 (6 detail records)		**Sum**	*127.3*
HUC	*17050112*		
ID17050112SW002_02	Arrowrock Reservoir (Boise River)		35.24
ID17050112SW002_05	Arrowrock Reservoir (Boise River)		0.3
ID17050112SW002L_0L	Arrowrock Reservoir (Boise River)		36764.
ID17050112SW001L_0L	Lucky Peak Reservoir (Boise River)		5527.7
ID17050112SW001_02	Lucky Peak Reservoir (Boise River)		39.93
Summary for 'HUC' = 17050112 (5 detail records)		**Sum**	*4236*
HUC	*17050113*		

Basin	Segment Name		Length
ID17050113SW005L_0L	Anderson Ranch Reservoir (Boise River)		9216.9
ID17050113SW001L_0L	Arrowrock Reservoir (Boise River)		820.39
ID17050113SW001_02	Arrowrock Reservoir (Boise River)		17.01
ID17050113SW007_02	Little Camas Creek Reservoir		23.79
ID17050113SW007_03	Little Camas Creek Reservoir		3.1
ID17050113SW007L_0L	Little Camas Creek Reservoir		966.18
Summary for 'HUC' = 17050113 (6 detail records)		**Sum**	*1104*
HUC	*17050120*		
ID17050120SW018L_0L	Deadwood Reservoir		3017.1
Summary for 'HUC' = 17050120 (1 detail record)		**Sum**	*3017.*
HUC	*17050122*		
ID17050122SW002_05	Black Canyon Reservoir		0.95
ID17050122SW002_02	Black Canyon Reservoir		17.94
ID17050122SW020L_0L	Paddock Valley Reservoir		1191.0
ID17050122SW020_02	Paddock Valley Reservoir		7.7
Summary for 'HUC' = 17050122 (4 detail records)		**Sum**	*1217.*
HUC	*17050123*		
ID17050123SW005_02	Horsethief Reservoir		249.58
ID17050123SW013_02	Little Payette Lake		3.58
ID17050123SW013L_0L	Little Payette Lake		1440.6
ID17050123SW017L_0L	Payette Lake		4986.5
ID17050123SW019L_0L	Upper Payette Lake		301.47
Summary for 'HUC' = 17050123 (5 detail records)		**Sum**	*6981.*
HUC	*17050124*		

Basin	Segment Name		Length
ID17050124SW004_02	Crane Creek Reservoir		24.23
ID17050124SW019_02	Lost Valley Reservoir		521.39
ID17050124SW031_02	Mann Creek Reservoir		2.9
ID17050124SW031L_0L	Mann Creek Reservoir		269.34
ID17050124SW031_03	Mann Creek Reservoir		0.62
Summary for 'HUC' = 17050124 (5 detail records)		**Sum**	*818.4*
Summary for 'Basin' = Southwest (53 detail records)		**Sum**	*71041.*

Upper Snake

HUC	17040104		
ID17040104SK010_02	Palisades Reservoir		54.21
ID17040104SK010L_0L	Palisades Reservoir		14430.
Summary for 'HUC' = 17040104 (2 detail records)		**Sum**	*1448*
HUC	*17040201*		
ID17040201SK016_02	Market Lake		0.64
Summary for 'HUC' = 17040201 (1 detail record)		**Sum**	*0.639*
HUC	*17040202*		
ID17040202SK032_02	Henrys Lake		25.55
ID17040202SK032L_0L	Henrys Lake		6076.7
ID17040202SK020L_0L	Island Park Reservoir		7670.1
ID17040202SK020_02	Island Park Reservoir		82.71
ID17040202SK049_02	Sheridan Reservoir		8.17
ID17040202SK049L_0L	Sheridan Reservoir		323.71
Summary for 'HUC' = 17040202 (6 detail records)		**Sum**	*1418*
HUC	*17040205*		

Basin	Segment Name		Length
ID17040205SK002_02	Ririe Reservoir (Willow Creek)		22.88
Summary for 'HUC' = 17040205 (1 detail record)		**Sum**	*22.87*
HUC	*17040206*		
ID17040206SK001_02	American Falls Reservoir (Snake River)		47.66
Summary for 'HUC' = 17040206 (1 detail record)		**Sum**	*47.65*
HUC	*17040207*		
ID17040207SK009_02	Blackfoot Reservoir		121.95
ID17040207SK009L_0L	Blackfoot Reservoir		49.42
Summary for 'HUC' = 17040207 (2 detail records)		**Sum**	*171.3*
HUC	*17040208*		
ID17040208SK019_02	Chesterfield Reservoir		13.42
ID17040208SK019L_0L	Chesterfield Reservoir		1245.4
ID17040208SK019_02T	Fourth of July Creek		4.7
ID17040208SK013_02	Hawkins Creek - source to Hawkins Reservoir		25.27
ID17040208SK012_02	Hawkins Reservoir		1.1
Summary for 'HUC' = 17040208 (5 detail records)		**Sum**	*1289.*
HUC	*17040209*		
ID17040209SK004_02	Lake Walcott (Snake River)		6.27
Summary for 'HUC' = 17040209 (1 detail record)		**Sum**	*6.269*
HUC	*17040212*		
ID17040212SK026_03	Wilson Lake Reservoir		513.98
Summary for 'HUC' = 17040212 (1 detail record)		**Sum**	*513.9*
HUC	*17040213*		
ID17040213SK004_02	Cedar Creek Reservoir		29.15

Basin	Segment Name		Length
ID17040213SK004_03	Cedar Creek Reservoir		0.83
ID17040213SK007_02	Salmon Falls Creek Reservoir		35.58
ID17040213SK007L_0L	Salmon Falls Creek Reservoir		2653.9
Summary for 'HUC' = 17040213 (4 detail records)		**Sum**	*2719.*
HUC	*17040215*		
ID17040215SK001_06	Mud Lake		3859.7
Summary for 'HUC' = 17040215 (1 detail record)		**Sum**	*3859.*
HUC	*17040218*		
ID17040218SK012L_0L	McKay Reservoir		1173.7
ID17040218SK012_02	McKay Reservoir		30.71
Summary for 'HUC' = 17040218 (2 detail records)		**Sum**	*1204.*
HUC	*17040219*		
ID17040219SK003_02	Magic Reservoir		12.08
Summary for 'HUC' = 17040219 (1 detail record)		**Sum**	*12.07*
HUC	*17040220*		
ID17040220SK027_02	Kelly Reservoir		3.12
ID17040220SK027L_0L	Kelly Reservoir		96.123
ID17040220SK023_02	Mormon Reservoir		7.74
ID17040220SK023_03	Mormon Reservoir		0.43
Summary for 'HUC' = 17040220 (4 detail records)		**Sum**	*107.4*
HUC	*17040221*		
ID17040221SK005_02	Carey Lake		1.35
ID17040221SK005_04	Carey Lake		0.53
ID17040221SK005L_0L	Carey Lake		200.9

Basin	Segment Name		Length
ID17040221SK007_02	Fish Creek Reservoir		2.83
ID17040221SK012_02	Little Wood River Reservoir		16.61
Summary for 'HUC' = 17040221 (5 detail records)		**Sum**	*222.2*
Summary for 'Basin' = Upper Snake (37 detail records)		**Sum**	*38849.*
		Grand Total	*158891.31*

Section 3: Rivers Not Assessed

Basin	Segment Name		Length
Bear			
HUC	*16010102*		
ID16010102BR006_02a	Beaver Creek		7.52
ID16010102BR002_02	Pegram Creek - source to mouth		59.07
ID16010102BR004_03	Raymond Creek - Idaho/Wyoming border to mouth; and the Hollo		0.22
ID16010102BR008_03	Sheep Creek - source to mouth		2.64
ID16010102BR003_02	Thomas Fork - Idaho/Wyoming border to mouth		30.84
Summary for 'HUC' = 16010102 (5 detail records)		**Sum**	*100.28*
HUC	*16010201*		
ID16010201BR012_05	Bear Lake Outlet - Lifton Station to Bear River		7.79
ID16010201BR002_03	Bear River -railroad bridge (T14N, R45E, Sec. 21) to Alexand		2.56
ID16010201BR014_02a	Bloomington Creek		17.62
ID16010201BR014_02	Bloomington Creek - source to mouth		32.44
ID16010201BR017_02	Dry Canyon Creek - source to mouth		16.76
ID16010201BR019_02b	Fish Haven Creek		2.01
ID16010201BR019_02	Fish Haven Creek - source to Bear Lake		3.13
ID16010201BR022_02	Georgetown Creek - source to mouth		35.75
ID16010201BR022_03	Georgetown Creek - source to mouth		3.63
ID16010201BR016_02	Little and St. Charles Creeks - source to Bear Lake		7.26
ID16010201BR003_02	lower Bailey Creek		3.07
ID16010201BR011_03	lower Mill Creek		3.87
ID16010201BR020_03	lower Montpelier Creek		5.31

Basin	Segment Name		Length
ID16010201BR013_02	lower Paris Creek		5.46
ID16010201BR011_02	Mill Creek - source to mouth		17.71
ID16010201BR020_03b	Montpelier Creek		4.8
ID16010201BR009_02	Ovid Creek - confluence of North and Mill Creek to mouth		28.14
ID16010201BR016_02a	Saint Charles Creek		15.6
ID16010201BR023_02	Soda Creek - Soda Creek Reservoir Dam to Alexander Reser voi		13.03
ID16010201BR025_02	Soda Creek - source to Soda Creek Reservoir		16.08
ID16010201BR006_03a	Spring Creek		1.12
ID16010201BR015_02	Spring Creek - source to mouth		2.54
ID16010201BR006_02	Stauffer Creek - source to mouth		6.39
ID16010201BR000_02	Unclassified Waters in CU 16010201		57.01
ID16010201BR000_03	Unclassified Waters in CU 16010201		0.32
ID16010201BR000_04	Unclassified Waters in CU 16010201		2
Summary for 'HUC' = 16010201 (26 detail records)		**Sum**	*311.39*
HUC	*16010202*		
ID16010202BR009_02	Bear River - Alexander Reservoir Dam to Oneida Narrows Reser		98.53
ID16010202BR014_03	Cottonwood Creek - source to Oneida Narrows Reservoir		5.84
ID16010202BR014_02	Cottonwood Creek - source to Oneida Narrows Reservoir		21.48
ID16010202BR002_02	Cub River - US Hwy 91 Bridge (T16S, R40E, Sec. 20) to Idaho/		3.23
ID16010202BR017_02	Oxford Slough		24.62
ID16010202BR014_03a	Shingle Creek		0.84
ID16010202BR001_03	Spring Creek - source to Idaho/Utah border		3.25
ID16010202BR001_02	Spring Creek - source to Idaho/Utah border		13.46
ID16010202BR018_02c	Stockton Creek		19.69

Basin	Segment Name		Length
ID16010202BR018_02	Swan Lake Creek Complex		19.13
ID16010202BR018_03	Swan Lake Creek Complex		3.16
ID16010202BR011_02	Trout Creek - source to mouth		47.02
Summary for 'HUC' = 16010202 (12 detail records)		**Sum**	*260.24*
HUC	*16010203*		
ID16010203BR002_03	Logan River - source to Idaho/Utah border		1.21
Summary for 'HUC' = 16010203 (1 detail record)		**Sum**	*1.2100*
HUC	*16010204*		
ID16010204BR005_02	Deep Creek - Deep Creek Reservoir Dam to mouth		15.73
ID16010204BR008_03	Little Malad River - Daniels Reservoir Dam to mouth		1.32
ID16010204BR001_02	Malad River - Little Malad River to Idaho/Utah border		58.92
ID16010204BR010_02	Wright Creek - source to Daniels Reservoir		32.21
Summary for 'HUC' = 16010204 (4 detail records)		**Sum**	*108.17*
HUC	*16020309*		
ID16020309BR001_02	Deep Creek - Rock Creek to Idaho/Utah border		376.94
ID16020309BR001_03	Deep Creek - Rock Creek to Idaho/Utah border		60.17
ID16020309BR002_02	Deep Creek - source to Rock Creek		86.1
ID16020309BR002_03	Deep Creek - source to Rock Creek		18.36
ID16020309BR003_02	Rock Creek - source to mouth		60.96
ID16020309BR003_03	Rock Creek - source to mouth		6.51
Summary for 'HUC' = 16020309 (6 detail records)		**Sum**	*609.03*
Summary for 'Basin' = Bear (54 detail records)		**Sum**	*1390.3*

Clearwater

HUC	*17060108*

Basin	Segment Name	Length
ID17060108CL033a_02	Cedar Creek - source to T43N, R05W, Sec. 28	0.22
ID17060108CL033b_02	Cedar Creek - T43N, R05W, Sec. 28 to Idaho/Washington border	11.41
ID17060108CL031b_02	Crane Creek - T42N, 04W, Sec. 08 to mouth	6.57
ID17060108CL032b_02	Deep Creek - T42, R05, Sec. 02 to mouth	15.29
ID17060108CL011b_02	Flannigan Creek - T41N, R05W, Sec. 23 to mouth	2.92
ID17060108CL017_03	Flat Creek - source to mouth	0.2
ID17060108CL007a_02	Fourmile Creek - source to T40N, R5W, Sec. 5	2.64
ID17060108CL007b_02	Fourmile Creek - T40N, R5W, Sec. 5 to Idaho/Washington borde	11.45
ID17060108CL004a_02	Gnat Creek - source to T40N, R05W, Sec. 26	5.82
ID17060108CL004b_02	Gnat Creek - T40N, R05W, Sec. 26 to mouth	1.87
ID17060108CL029_02	Gold Creek - T42N, R04W, Sec. 28 to mouth	1.45
ID17060108CL015b_02	Hatter Creek - T40N, R04W, Sec. 3 to mouth	20.47
ID17060108CL023_02	Meadow Creek - East Fork Meadow Creek to mouth	1.08
ID17060108CL006a_02	Missouri Flat Creek - source to T40N, R5W, Sec. 17	1.26
ID17060108CL006b_02	Missouri Flat Creek - T40N, R5W, Sec. 17 to Idaho/Washington	5.81
ID17060108CL009_02	Palouse River - Deep Creek to Idaho/Washington border	29.6
ID17060108CL009_04	Palouse River - Deep Creek to Idaho/Washington border	9.14
ID17060108CL010_04	Palouse River - Hatter Creek to Deep Creek	6.17
ID17060108CL018_03	Palouse River - source to Strychnine Creek	4.52
ID17060108CL016_02	Palouse River - Strychnine Creek to Hatter Creek	43.78
ID17060108CL008a_02	Silver Creek - source to T43, R5W, Sec. 29	0.81
ID17060108CL008b_02	Silver Creek - T43, R5W, Sec. 29 to Idaho/Washington border	5.57
ID17060108CL002_02	South Fork Palouse River - Gnat Creek to Idaho/Washington bo	21.98
Summary for 'HUC' = 17060108 (23 detail records)	**Sum**	*210.02*

Basin	Segment Name		Length
HUC	*17060109*		
ID17060109CL002_02	North Fork Pine Creek - source to Idaho/Washington border		7.39
ID17060109CL001_02	South Fork Pine Creek - source to Idaho/Washington border		7.81
ID17060109CL003_02	Unnamed Tributaries - source to Idaho/Washington border (T44		5.54
Summary for 'HUC' = 17060109 (3 detail records)		**Sum**	*20.739*
HUC	*17060301*		
ID17060301CL035_02	Cayuse Creek - source to mouth		14.81
ID17060301CL031_03	Deep Creek - source to mouth		9.68
ID17060301CL031_02	Deep Creek - source to mouth		24
ID17060301CL021_02	Magruder Creek - source to mouth		12.17
ID17060301CL034_02	Pete Creek - source to mouth		5.13
ID17060301CL008_02	Running Creek - Lynx Creek to mouth		33.08
ID17060301CL009_02	Running Creek - source to Lynx Creek		22.08
ID17060301CL019_02	Salamander Creek - source to mouth		18.73
ID17060301CL001_05	Selway River - Bear Creek to Moose Creek		10.56
ID17060301CL022_02	Selway River - confluence of Hidden and Surprise Creeks to D		67.39
ID17060301CL022_04	Selway River - confluence of Hidden and Surprise Creeks to D		7.74
ID17060301CL014_04	Selway River - Deep Creek to White Cap Creek		5.55
ID17060301CL014_02	Selway River - Deep Creek to White Cap Creek		44.32
ID17060301CL030_02	Storm Creek - source to mouth		18.19
ID17060301CL029_02	Wilkerson Creek - source to Storm Creek		8.84
Summary for 'HUC' = 17060301 (15 detail records)		**Sum**	*302.27*
HUC	*17060302*		
ID17060302CL021_02	Buck Lake Creek - source to mouth		27.66

Basin	Segment Name	Length
ID17060302CL021_03	Buck Lake Creek - source to mouth	10.73
ID17060302CL017_02	Butter Creek - source to mouth	5.86
ID17060302CL019_03	East Fork Meadow Creek - source to mouth	1.63
ID17060302CL005_02	East Fork O'Hara Creek - source to mouth	6.55
ID17060302CL007_02	Falls Creek - source to mouth	9.59
ID17060302CL010_02	Fivemile Creek - source to mouth	17.47
ID17060302CL051_02	Gedney Creek - source to West Fork Gedney Creek	18.94
ID17060302CL051_03	Gedney Creek - source to West Fork Gedney Creek	1.5
ID17060302CL050_02	Gedney Creek - West Fork Gedney Creek to mouth	4.26
ID17060302CL050_04	Gedney Creek - West Fork Gedney Creek to mouth	3.48
ID17060302CL009_02	Horse Creek - source to mouth	17.48
ID17060302CL011_02	Little Boulder Creek - source to mouth	9.83
ID17060302CL008_02	Meadow Creek - Buck Lake Creek to mouth	29.66
ID17060302CL008_03	Meadow Creek - Buck Lake Creek to mouth	0.37
ID17060302CL012_02	Meadow Creek - East Fork Meadow Creek to Buck Lake Creek	30.73
ID17060302CL016_02	Meadow Creek - source to East Fork Meadow Creek	41.23
ID17060302CL016_03	Meadow Creek - source to East Fork Meadow Creek	12.18
ID17060302CL016_04	Meadow Creek - source to East Fork Meadow Creek	5.15
ID17060302CL014_02	Sable Creek - source to mouth	15.22
ID17060302CL020_02	Schwar Creek - source to mouth	22.69
ID17060302CL006_06	Selway River - Meadow Creek to O'Hara Creek	12.29
ID17060302CL022_06	Selway River - Moose Creek to Meadow Creek	21.15
ID17060302CL001_06	Selway River - O'Hara Creek to mouth	6.92
ID17060302CL018_03	Three Prong Creek - source to mouth	2.89

Basin	Segment Name		Length
ID17060302CL018_02	Three Prong Creek - source to mouth		14.51
ID17060302CL052_03	West Fork Gedney Creek - source to mouth		4.13
ID17060302CL052_02	West Fork Gedney Creek - source to mouth		28.65
ID17060302CL004_02	West Fork O'Hara Creek - source to mouth		11.13
Summary for 'HUC' = 17060302 (29 detail records)		**Sum**	*393.87*
HUC	*17060303*		
ID17060303CL033_03	Beaver Creek - source to mouth		0.62
ID17060303CL033_02	Beaver Creek - source to mouth		13.07
ID17060303CL037_02	Brushy Fork - source to Spruce Creek		12.5
ID17060303CL035_04	Brushy Fork - Spruce Creek to mouth		4.67
ID17060303CL022_02	Cliff Creek - source to mouth		6.22
ID17060303CL026_03	Colt Creek - source to mouth		4.47
ID17060303CL004_02	Coolwater Creek - source to mouth		11.08
ID17060303CL034_02	Crooked Fork - Brushy Fork to mouth		13.98
ID17060303CL034_05	Crooked Fork - Brushy Fork to mouth		6.89
ID17060303CL038_04	Crooked Fork - source to Brushy Fork		6.6
ID17060303CL059_02	Deadman Creek - East Fork Deadman Creek to mouth		0.98
ID17060303CL060_02	East Fork Deadman Creek - source to mouth		17.03
ID17060303CL060_03	East Fork Deadman Creek - source to mouth		0.64
ID17060303CL005_02	Fire Creek - source to mouth		21.85
ID17060303CL052_02	Fish Creek - Hungery Creek to mouth		7.89
ID17060303CL054_03	Hungery Creek - Obia Creek to mouth		7.78
ID17060303CL054_02	Hungery Creek - Obia Creek to mouth		17.78
ID17060303CL021_02	Jay Creek - source to mouth		5.89

Basin	Segment Name	Length
ID17060303CL002_02	Kerr Creek - source to mouth	7.33
ID17060303CL008_02	Lochsa River - Fish Creek to Old Man Creek	23.58
ID17060303CL003_02	Lochsa River - Old Man Creek to Deadman Creek	10.84
ID17060303CL007_03	Old Man Creek - source to mouth	9.55
ID17060303CL041_02	Papoose Creek - source to mouth	17.74
ID17060303CL048_03	Postoffice Creek - source to mouth	0.69
ID17060303CL006_03	Split Creek - source to mouth	1.08
ID17060303CL006_02	Split Creek - source to mouth	16.34
ID17060303CL014_03	Sponge Creek - Fish Lake Creek to mouth	5.37
ID17060303CL014_02	Sponge Creek - Fish Lake Creek to mouth	3.4
ID17060303CL045_02	Squaw Creek - source to mouth	6.95
ID17060303CL020_02a	Un-named Tributaries	4.45
ID17060303CL017_02	Warm Springs Creek - Wind Lakes Creek to mouth	28.93
ID17060303CL049_02	Weir Creek - source to mouth	15.12
ID17060303CL043_02	Wendover Creek - source to mouth	5.67
ID17060303CL046_02	West Fork Squaw Creek - source to mouth	6.41
ID17060303CL025_02	White Sand Creek - source to Storm Creek	33.69
ID17060303CL025_03	White Sand Creek - source to Storm Creek	2.1
ID17060303CL025_04	White Sand Creek - source to Storm Creek	4.26
ID17060303CL024_04	White Sand Creek - Storm Creek to mouth	9.91
ID17060303CL024_02	White Sand Creek - Storm Creek to mouth	13.91
ID17060303CL053_02	Willow Creek - source to mouth	14.55
ID17060303CL053_03	Willow Creek - source to mouth	1.03
ID17060303CL019_02	Wind Lakes Creek - source to mouth	17.01

Basin	Segment Name		Length
Summary for 'HUC' = 17060303 (42 detail records)		**Sum**	*419.84*
HUC	*17060304*		
ID17060304CL006_03	Clear Creek - source to South Fork Clear Creek		3.37
ID17060304CL002_02	Clear Creek - South Fork Clear Creek to mouth		36.65
ID17060304CL005_02	Kay Creek - source to mouth		8.6
ID17060304CL011_03	Maggie Creek - source to mouth		6.3
ID17060304CL007_03	Middle Fork Clear Creek - source to mouth		1.84
ID17060304CL001_03	Middle Fork Clearwater River - confluence of Lochsa		0.96
ID17060304CL001_05	Middle Fork Clearwater River - confluence of Lochsa		22.93
ID17060304CL004_03	South Fork Clear Creek - source to mouth		6.86
ID17060304CL004_02	South Fork Clear Creek - source to mouth		25.75
ID17060304CL003_02	West Fork Clear Creek - source to mouth		13.56
Summary for 'HUC' = 17060304 (10 detail records)		**Sum**	*126.82*
HUC	*17060306*		
ID17060306CL063_02	Bethel Canyon - source to mouth		16.32
ID17060306CL056_02	Big Bear Creek - confluence of West and East Fork Big Bear C		25.39
ID17060306CL033_02	Big Creek - source to mouth		12.49
ID17060306CL046_03	Cedar Creek - source to mouth		2.67
ID17060306CL022_08	Clearwater River - confluence of South and Middle Fork Clear		0.06
ID17060306CL022_06	Clearwater River - confluence of South and Middle Fork Clear		19.3
ID17060306CL021_06	Clearwater River - Lolo Creek to North Fork Clearwater River		13.1
ID17060306CL021_02	Clearwater River - Lolo Creek to North Fork Clearwater River		35.54
ID17060306CL013_08	Clearwater River - North Fork Clearwater River to mouth		0.37
ID17060306CL013_02	Clearwater River - North Fork Clearwater River to mouth		56.05

Basin	Segment Name	Length
ID17060306CL002_02	Clearwater River - Potlatch River to Lower Granite Dam pool	39.44
ID17060306CL017_02	Cold Springs Creek - source to mouth	23.27
ID17060306CL017_03	Cold Springs Creek - source to mouth	2.23
ID17060306CL014_02	Cottonwood Creek - source to mouth	51.87
ID17060306CL059_03	Dry Creek - source to mouth	2.75
ID17060306CL059_02	Dry Creek - source to mouth	16.51
ID17060306CL057_04	East Fork Big Bear Creek - source to mouth	0.34
ID17060306CL057_03	East Fork Big Bear Creek - source to mouth	3.48
ID17060306CL065_02	Howard Gulch - source to mouth	12.13
ID17060306CL034_02	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre	13.24
ID17060306CL004_02	Lapwai Creek - Sweetwater Creek to mouth	28.59
ID17060306CL008_02	Lapwai Creek - Winchester Lake to Sweetwater Creek	50.59
ID17060306CL060_02	Little Bear Creek - source to mouth	37.47
ID17060306CL050_02	Little Boulder Creek - source to mouth	6.63
ID17060306CL018_02	Little Canyon Creek - confluence of Holes and Long Hollow Cr	33.07
ID17060306CL064_02	Little Potlatch Creek - source to mouth	62.34
ID17060306CL028_03	Lolo Creek - source to Yakus Creek	5.08
ID17060306CL026_03	Lolo Creek - Yakus Creek to mouth	2.59
ID17060306CL042_02	Louse Creek - source to mouth	19.58
ID17060306CL001_03	Lower Granite Dam pool	0.08
ID17060306CL001_02	Lower Granite Dam pool	20.81
ID17060306CL011_02	Mission Creek - source to mouth	75.5
ID17060306CL039_04	Orofino Creek - source to mouth	29.88
ID17060306CL044_02	Potlatch River - Big Bear Creek to mouth	13.73

Basin	Segment Name		Length
ID17060306CL045_02	Potlatch River - Corral Creek to Big Bear Creek		30.51
ID17060306CL048_02	Potlatch River - Moose Creek to Corral Creek		15.64
ID17060306CL005_02	Sweetwater Creek - Webb Creek to mouth		7.93
ID17060306CL012_03	Tom Beall Creek - source to mouth		1.14
ID17060306CL012_02	Tom Beall Creek - source to mouth		20.24
ID17060306CL058_02	West Fork Big Bear Creek - source to mouth		15.44
ID17060306CL061_02	West Fork Little Bear Creek - source to mouth		38.52
ID17060306CL061_03	West Fork Little Bear Creek - source to mouth		9.22
ID17060306CL040_02	Whiskey Creek - source to mouth		18.48
ID17060306CL037_02	Winter Creek - Winter Creek waterfall (3.4 miles upstream) t		6.63
Summary for 'HUC' = 17060306 (44 detail records)		**Sum**	*896.23*

HUC	17060307		
ID17060307CL019_02	Cayuse Creek - Gravey Creek to mouth		22.66
ID17060307CL019_04	Cayuse Creek - Gravey Creek to mouth		16.44
ID17060307CL022_03	Cayuse Creek - source to Gravey Creek		15.31
ID17060307CL022_02	Cayuse Creek - source to Gravey Creek		57.83
ID17060307CL017_02	Fourth of July Creek - source to mouth		42.05
ID17060307CL017_03	Fourth of July Creek - source to mouth		9.96
ID17060307CL007_02	French Creek - source to Sylvan Creek		12.74
ID17060307CL007_03	French Creek - Sylvan Creek to mouth		2.12
ID17060307CL018_05	Kelly Creek - Cayuse Creek to mouth		16.49
ID17060307CL018_02	Kelly Creek - Cayuse Creek to mouth		36.15
ID17060307CL018_03	Kelly Creek - Cayuse Creek to mouth		1.05
ID17060307CL033_02	Lake Creek - source to mouth		31.35

Basin	Segment Name	Length
ID17060307CL013_03	Little Weitas Creek - source to mouth	5.44
ID17060307CL013_02	Little Weitas Creek - source to mouth	32.36
ID17060307CL038_02	Meadow Creek - source to mouth	30.28
ID17060307CL028_03	Moose Creek - Osier Creek to mouth	2.22
ID17060307CL028_04	Moose Creek - Osier Creek to mouth	0.05
ID17060307CL028_02	Moose Creek - Osier Creek to mouth	3.05
ID17060307CL031_02	Moose Creek - source to Osier Creek	21.72
ID17060307CL016_05	North Fork Clearwater River - Kelly Creek to Weitas Creek	14.1
ID17060307CL016_02	North Fork Clearwater River - Kelly Creek to Weitas Creek	28.55
ID17060307CL032_02	North Fork Clearwater River - Lake Creek to Kelly Creek	8.2
ID17060307CL032_04	North Fork Clearwater River - Lake Creek to Kelly Creek	18.63
ID17060307CL004_05	North Fork Clearwater River - Orogrande Creek to Washington	6.74
ID17060307CL001_02	North Fork Clearwater River - Skull Creek to Aquarius Camp g	13.75
ID17060307CL001_05	North Fork Clearwater River - Skull Creek to Aquarius Camp g	6.88
ID17060307CL036_02	North Fork Clearwater River - source to Vanderbilt Gulch	28.59
ID17060307CL034_03	North Fork Clearwater River - Vanderbilt Gulch to Lake Creek	5.04
ID17060307CL034_02	North Fork Clearwater River - Vanderbilt Gulch to Lake Creek	8.44
ID17060307CL008_05	North Fork Clearwater River - Weitas Creek to Orogrande Cree	4.24
ID17060307CL008_02	North Fork Clearwater River - Weitas Creek to Orogrande Cree	17.14
ID17060307CL002_05	North Fork Clearwater River- Washington Creek to Skull Creek	12.82
ID17060307CL005_02	Orogrande Creek - French Creek to mouth	28.97
ID17060307CL044_02	Quartz Creek - source to mouth	5.7
ID17060307CL046_02	Skull Creek - Collins Creek to mouth	5.66
ID17060307CL041_02	Sprague Creek - source to mouth	1.92

Basin	Segment Name		Length
ID17060307CL023_02	Toboggan Creek - source to mouth		26.96
ID17060307CL037_02	Vanderbilt Gulch - source to mouth		14.45
ID17060307CL009_04	Weitas Creek - Hemlock Creek to mouth		6.59
ID17060307CL009_03	Weitas Creek - Hemlock Creek to mouth		2.04
ID17060307CL009_02	Weitas Creek - Hemlock Creek to mouth		29.85
ID17060307CL014_02	Weitas Creek - source to Windy Creek		46.14
ID17060307CL014_03	Weitas Creek - source to Windy Creek		3.01
ID17060307CL014_04	Weitas Creek - source to Windy Creek		5.16
ID17060307CL011_02	Weitas Creek - Windy Creek to Hemlock Creek		38.31
ID17060307CL015_02	Windy Creek - source to mouth		17.63
Summary for 'HUC' = 17060307 (46 detail records)		**Sum**	*764.77*
HUC	*17060308*		
ID17060308CL008_02	Beaver Creek - source to mouth		1.92
ID17060308CL008_04	Beaver Creek - source to mouth		0.2
ID17060308CL008_05	Beaver Creek - source to mouth		2.9
ID17060308CL006_03	Benton Creek - source to Dworshak Reservoir		3.65
ID17060308CL006_02	Benton Creek - source to Dworshak Reservoir		31.53
ID17060308CL030_02	Elk Creek tributaries inc. Morris, Deer, Pete Cr		20.18
ID17060308CL021_02	Floodwood Creek - tributaries		43.66
ID17060308CL018_02	Foehl Creek - source to mouth		50.56
ID17060308CL018_04	Foehl Creek - source to mouth		2.78
ID17060308CL011_05	Little North Fork Clearwater River - Spotted Louis Creek to		13.62
ID17060308CL011_03	Little North Fork Clearwater River - Spotted Louis Creek to		1.53
ID17060308CL011_02	Little North Fork Clearwater River - Spotted Louis Creek to		47.25

Basin	Segment Name	Length
ID17060308CL015_02	Little North Fork Clearwater River - Rutledge Creek to Spott	11.71
ID17060308CL033_02	Long Meadow Creek - source to Dworshak Reservoir	18.29
ID17060308CL033_03	Long Meadow Creek - source to Dworshak Reservoir	0.75
ID17060308CL007_02	North Fork Clearwater River - Aquaruis Campground (T40N, R07	16.61
ID17060308CL035_02	North Fork Clearwater River - Dworshak Reservoir Dam to mout	16.86
ID17060308CL035_03	North Fork Clearwater River - Dworshak Reservoir Dam to mout	0.65
ID17060308CL003_02	Reeds Creek - segment tributaries	29.71
ID17060308CL016_04	Rutledge Creek - source to mouth	5.74
ID17060308CL016_02	Rutledge Creek - source to mouth	25.43
ID17060308CL012_05	Sawtooth Creek - source to mouth	2.9
ID17060308CL012_04	Sawtooth Creek - source to mouth	4.33
ID17060308CL012_02	Sawtooth Creek - source to mouth	10.3
ID17060308CL031_02	Shattuck Creek - source to mouth	7.44
ID17060308CL031_03	Shattuck Creek - source to mouth	4.99
ID17060308CL014_04	Spotted Louis Creek - source to mouth	6.65
ID17060308CL014_03	Spotted Louis Creek - source to mouth	3.31
ID17060308CL014_02	Spotted Louis Creek - source to mouth	42.42
ID17060308CL032_02	Squaw Creek - source to mouth	8.08
ID17060308CL019_03	Stoney Creek - Glover Creek to Dworshak Reservoir	4.03
ID17060308CL019_02	Stoney Creek - Glover Creek to Dworshak Reservoir	28.42
ID17060308CL022_03	Stoney Creek - source to Glover Creek	2.59
ID17060308CL022_02	Stoney Creek - source to Glover Creek	27.96
ID17060308CL020_02	Stony Creek - Glover Creek to Breakfast Creek	2.09
ID17060308CL027_02	Swamp Creek - source to Dworshak Reservoir	9.77

Basin	Segment Name		Length
ID17060308CL026_03	Weitas Creek - source to Dworshak Reservoir		5.05
ID17060308CL026_02	Weitas Creek - source to Dworshak Reservoir		22.48
Summary for 'HUC' = 17060308 (38 detail records)		**Sum**	*538.34*
Summary for 'Basin' = Clearwater (250 detail records)		**Sum**	*3672.9*

Panhandle

HUC 17010101

ID17010101PN005_03	Glad Creek - source to mouth		0.54
ID17010101PN005_02	Glad Creek - source to mouth		7.61
ID17010101PN006_02	Keeler Creek - source to Idaho/Montana border		2.18
ID17010101PN002_02	North Callahan Creek - source to Idaho/Montana border		28.36
ID17010101PN002_03	North Callahan Creek - source to Idaho/Montana border		6
ID17010101PN003_02	South Callahan Creek - Glad Creek to Idaho/Montana border		3.13
ID17010101PN004_02	South Callahan Creek - source to Glad Creek		6.44
Summary for 'HUC' = 17010101 (7 detail records)		**Sum**	*54.260*

HUC 17010104

ID17010104PN039_02	Brush Creek - source to mouth		9.71
ID17010104PN030_02	Cow Creek - source to mouth		29.17
ID17010104PN035_02	Curley Creek - source to mouth		10.13
ID17010104PN018_02	Deep Creek - Brown Creek to Snow Creek		6.1
ID17010104PN022_02	Deep Creek - McArthur Lake to Trail Creek		5.05
ID17010104PN015_02	Deep Creek - Snow Creek to mouth		1.57
ID17010104PN024_03	Dodge Creek - source to mouth		0.45
ID17010104PN034_02	East Fork Boulder Creek - source to mouth		18.22
ID17010104PN021_02	Fall Creek - source to mouth		28.89

Basin	Segment Name		Length
ID17010104PN012_02	Kootenai River - Deep Creek to and including Shorty's Island		5.3
ID17010104PN031_02	Kootenai River - Idaho/Montana to Moyie River		43.22
ID17010104PN029_02	Kootenai River - Moyie River to Deep Creek		32.68
ID17010104PN001_03	Kootenai River - Shorty's Island to the Idaho/Canadian borde		1.88
ID17010104PN038_02	Mission Creek - Brush Creek to mouth		3.76
ID17010104PN013_02	Myrtle Creek - source to mouth		30.77
ID17010104PN005_02	Smith Creek - Cow Creek to mouth		4.61
ID17010104PN007_02	Smith Creek - source to Cow Creek		26.39
ID17010104PN026_02	Trail Creek - source to mouth		19.63
ID17010104PN010_02	Trout Creek - source to mouth		15.25
Summary for 'HUC' = 17010104 (19 detail records)		**Sum**	*292.77*
HUC	*17010105*		
ID17010105PN006_05	Moyie River - Idaho/Canadian border to Round Prairie Creek		7.24
ID17010105PN002_05	Moyie River - Meadow Creek to Moyie Falls Dam		7.88
ID17010105PN005_05	Moyie River - Round Prairie Creek to Meadow Creek		10.38
ID17010105PN008_02	Round Prairie Creek - Gillon Creek to mouth		3.23
ID17010105PN008_03	Round Prairie Creek - Gillon Creek to mouth		3.67
Summary for 'HUC' = 17010105 (5 detail records)		**Sum**	*32.400*
HUC	*17010213*		
ID17010213PN003_02	Clark Fork River - Cabinet Gorge Dam to Mosquito Creek		0.8
ID17010213PN001_02	Clark Fork River Delta - Mosquito Creek to Pend Oreille Lake		8.26
ID17010213PN001_03	Clark Fork River Delta - Mosquito Creek to Pend Oreille Lake		1.19
ID17010213PN001_04	Clark Fork River Delta - Mosquito Creek to Pend Oreille Lake		1.51
ID17010213PN008_02	Gold Creek - source to Idaho/Montana border		7.49

Basin	Segment Name		Length
ID17010213PN007_02	West Fork Blue Creek - source to Idaho/Montana border		4.68
ID17010213PN006_02	West Fork Elk Creek - source to Idaho/Montana border		3.86
Summary for 'HUC' = 17010213 (7 detail records)		**Sum**	*27.789*

HUC *17010214*

ID17010214PN046_02	Berry Creek - source to mouth		13.58
ID17010214PN046_03	Berry Creek - source to mouth		0.36
ID17010214PN010_02	Brickel Creek - Idaho/Washington border to mouth		27.79
ID17010214PN055_02	Carr Creek - source to mouth		6.05
ID17010214PN055_03	Carr Creek - source to mouth		2.51
ID17010214PN016_02	Fry Creek - source to mouth		11.25
ID17010214PN056_02	Hornby Creek - source to mouth		5.68
ID17010214PN058_02	Johnson Creek - source to mouth		16.22
ID17010214PN059_03	Riley Creek - source to mouth		4.04
ID17010214PN028_02	Riser Creek - source to mouth		3.23
ID17010214PN038_02	Sand Creek - source to mouth		12.52
ID17010214PN057_02	Smith Creek - source to mouth		8.64
ID17010214PN007_02	Spirit Creek - source to mouth		6.59
ID17010214PN007_03	Spirit Creek - source to mouth		4.76
ID17010214PN050_02	Spring Jack Creek - source to mouth		2.62
ID17010214PN061_02	Strong Creek - source to mouth		2.43
ID17010214PN051_02	Swede Creek - source to mouth		3.07
ID17010214PN054_02	Syringa Creek - source to mouth		14.68
ID17010214PN054_03	Syringa Creek - source to mouth		1.33
ID17010214PN039_02	Upper Pack River - Lindsey Creek to Sand Creek		15

Basin	Segment Name		Length
Summary for 'HUC' = 17010214 (20 detail records)		**Sum**	*162.35*
HUC	*17010215*		
ID17010215PN011_02	Bear Creek - source to mouth		11.35
ID17010215PN020_02	Beaver Creek - source to mouth		12.68
ID17010215PN002_02	Big Creek - source to mouth		16.65
ID17010215PN015_02	Caribou Creek - source to mouth		27.41
ID17010215PN028_02	Goose Creek - Idaho/Washington border to mouth		32.42
ID17010215PN024_02	Kalispell Creek - Idaho/Washington border to mouth		32.73
ID17010215PN005_05	Lower Priest River - Priest Lake to Upper West Branch Priest		8.79
ID17010215PN005_02	Lower Priest River - Priest Lake to Upper West Branch Priest		2.78
ID17010215PN001_02	Lower Priest River - Upper West Branch Priest River to mouth		83.76
ID17010215PN001_03	Lower Priest River - Upper West Branch Priest River to mouth		3.91
ID17010215PN030_02	Lower West Branch Priest River - Idaho/Washington border to		95.21
ID17010215PN031_03	Moores Creek - source to mouth		3.86
ID17010215PN031_02	Moores Creek - source to mouth		25.01
ID17010215PN029_02	Quartz Creek - source to mouth		14.64
ID17010215PN018_04	Upper Priest River - Idaho/Canadian border to mouth		1.37
ID17010215PN027_02	Upper West Branch Priest River - Idaho/Washington border to		44.83
Summary for 'HUC' = 17010215 (16 detail records)		**Sum**	*417.40*
HUC	*17010216*		
ID17010216PN002_02	Pend Oreille River - Albeni Falls Dam to Idaho/Washington bo		11.78
ID17010216PN001_02	South Salmo River - source to Idaho/Washington border		4.44
Summary for 'HUC' = 17010216 (2 detail records)		**Sum**	*16.219*
HUC	*17010301*		

Basin	Segment Name		Length
ID17010301PN021_02	Brett Creek - source to mouth		6.55
ID17010301PN026_02	Brown Creek - source to mouth		7.79
ID17010301PN006_02	Butte Creek - source to mouth		5.33
ID17010301PN016_02	Cataract Creek - source to mouth		7.32
ID17010301PN025_02	Downey Creek - source to mouth		10.21
ID17010301PN023_02	Flat Creek - source to mouth		12.52
ID17010301PN002_02	Graham Creek - source to mouth		13.11
ID17010301PN027_03	Grizzly Creek - source to mouth		1.12
ID17010301PN035_02	Iron Creek - source to mouth		13.44
ID17010301PN022_02	Miners Creek - source to mouth		4.96
ID17010301PN015_04	North Fork Coeur d'Alene River - source to Jordan Creek		9.61
ID17010301PN001_02	North Fork Coeur d'Alene River - Yellow Dog Creek to mouth		95.76
ID17010301PN010_02	Shoshone Creek - Falls Creek to mouth		7.5
ID17010301PN038_02	Skookum Creek - source to mouth		7.63
ID17010301PN028_02	Steamboat Creek - source to mouth		47.23
ID17010301PN017_04	Tepee Creek - confluence of Trail Creek and Big Elk Creek to		4.13
ID17010301PN017_02	Tepee Creek - confluence of Trail Creek and Big Elk Creek to		20.71
ID17010301PN019_02	Trail Creek - source to mouth		35.65
Summary for 'HUC' = 17010301 (18 detail records)		**Sum**	*310.57*

HUC *17010302*

ID17010302PN020_03	Bear Creek - source to mouth		2.12
ID17010302PN007b_03	Big Creek - mining impact area to mouth		2.54
ID17010302PN009a_02	Lake Creek - source to mining impact area		1.99
ID17010302PN002_02	Pine Creek - East Fork Pine Creek to mouth		5.71

Basin	Segment Name		Length
ID17010302PN008b_02	Shields Gulch - mining impact area to mouth		0.39
ID17010302PN008a_02	Shields Gulch - source to mining impact area		1.55
ID17010302PN011_02	South Fork Coeur d'Alene River - from and including Daisy Gu		33.1
ID17010302PN012_02	Willow Creek - source to mouth		4.5
Summary for 'HUC' = 17010302 (8 detail records)		**Sum**	*51.899*
HUC	*17010303*		
ID17010303PN028_02	Beauty Creek - source to mouth		10.08
ID17010303PN007_02	Coeur d'Alene River - Latour Creek to mouth		4.52
ID17010303PN016_02	Coeur d'Alene River - South Fork Coeur d'Alene River to Lato		3.93
ID17010303PN012_02	Evans Creek - source to mouth		12.26
ID17010303PN012_03	Evans Creek - source to mouth		2.47
ID17010303PN005_02	Fighting Creek - source to mouth		15.04
ID17010303PN018_02	French Gulch - source to mouth		10
ID17010303PN019_02	Hardy and Hayden Gulch and Whitman Draw Creeks Complex - sou		10.87
ID17010303PN006_03	Lake Creek - Idaho/Washington border to mouth		3.92
ID17010303PN006_02	Lake Creek - Idaho/Washington border to mouth		25.85
ID17010303PN013_02	Robinson Creek - source to mouth		12.15
ID17010303PN017_02	Skeel and Cataldo Creeks - source to mouth		10.94
Summary for 'HUC' = 17010303 (12 detail records)		**Sum**	*122.02*
HUC	*17010304*		
ID17010304PN004_02	Benewah Creek - source to mouth		59.55
ID17010304PN038_03	Boulder Creek - source to mouth		2.69
ID17010304PN038_02	Boulder Creek - source to mouth		20.66
ID17010304PN054_02	Bruin Creek - source to mouth		4.06

Basin	Segment Name	Length
ID17010304PN006_02	Cherry Creek - source to mouth	7.9
ID17010304PN021_02	Childs Creek - source to mouth	8.52
ID17010304PN049_02	Copper Creek - source to mouth	5.35
ID17010304PN037_02	Daveggio Creek - source to mouth	10.31
ID17010304PN069_02	Deep Creek - source to mouth	21.37
ID17010304PN032_02	Eagle Creek - source to mouth	11.83
ID17010304PN065_02	Falls Creek - source to mouth	9.59
ID17010304PN036_02	Homestead Creek - source to mouth	12.38
ID17010304PN031_02	Marble Creek - Hobo Creek to mouth	21.89
ID17010304PN035_02	Marble Creek - source to Hobo Creek	32.93
ID17010304PN020_02	Merry Creek - source to mouth	26.45
ID17010304PN059_04	North Fork St. Joe River - Loop Creek to mouth	10.15
ID17010304PN061_02	North Fork St. Joe River - source to Loop Creek	31.99
ID17010304PN003_02	Pedee Creek - source to mouth	7.48
ID17010304PN002_03	Plummer Creek - source to mouth	9.14
ID17010304PN002_02	Plummer Creek - source to mouth	46.9
ID17010304PN002_04	Plummer Creek - source to mouth	2.27
ID17010304PN055_02	Quartz Creek - source to mouth	18.25
ID17010304PN051_02	Red Ives Creek - source to mouth	12.69
ID17010304PN066_02	Reeds Gulch Creek - source to mouth	4.76
ID17010304PN067_02	Rochat Creek - source to mouth	8.53
ID17010304PN062_02	Slate Creek - source to mouth	57.65
ID17010304PN005_02	St. Joe River - St. Maries River to mouth	15.88
ID17010304PN005_06	St. Joe River - St. Maries River to mouth	9.2

Basin	Segment Name		Length
ID17010304PN012_02	St. Maries River - Carpenter Creek to Santa Creek		25.04
ID17010304PN015_02	St. Maries River - confluence of West Fork and Middle Fork S		30.5
ID17010304PN007_02	St. Maries River - Santa Creek to mouth		62.3
ID17010304PN007_03	St. Maries River - Santa Creek to mouth		0.2
ID17010304PN068_02	Street Creek - source to mouth		10.42
ID17010304PN064_02	Trout Creek - source to mouth		15.41
ID17010304PN064_03	Trout Creek - source to mouth		5.81
Summary for 'HUC' = 17010304 (35 detail records)		**Sum**	*640.05*

HUC *17010305*

ID17010305PN002_03	Cable Creek - source to Idaho/Washington border		0.44
ID17010305PN002_02	Cable Creek - source to Idaho/Washington border		10.58
ID17010305PN018_03	Hauser Creek - source to mouth		2.65
ID17010305PN018_02	Hauser Creek - source to mouth		15.34
ID17010305PN015_03	Hauser Lake outlet - Hauser Lake to mouth		3.21
ID17010305PN010_02	Hayden Creek -source to mouth		35.24
ID17010305PN007_02	Jim Creek - source to mouth		2.49
ID17010305PN001_02	Liberty Creek - source to Idaho/Washington border		6.41
ID17010305PN017_02	Lost Lake, Howell, and Lost Creeks - source to mouth		13.28
ID17010305PN009_02	Nilsen Creek - source to mouth		3.08
ID17010305PN012_02	Rathdrum Creek - Twin Lakes to mouth		7.36
ID17010305PN011_02	Sage Creek and Lewellen Creek - source to mouth		35.72
ID17010305PN003_02	Spokane River - Post Falls Dam to Idaho/Washington border		4.59
ID17010305PN006_02	Yellowbank Creek - source to mouth		6.96
Summary for 'HUC' = 17010305 (14 detail records)		**Sum**	*147.35*

Basin	Segment Name		Length
HUC	*17010306*		
ID17010306PN004_03	Middle Fork Rock Creek - source to Idaho/Washington border		1.8
ID17010306PN005_02	North Fork Rock Creek		35.88
ID17010306PN005_03	North Fork Rock Creek - source to Idaho/Washington border		6.11
ID17010306PN003_02	Rock Creek		15.91
ID17010306PN004_02	Rose Creek		24.01
Summary for 'HUC' = 17010306 (5 detail records)		**Sum**	*83.710*
HUC	*17010308*		
ID17010308PN001_02	McDonald Creek - source to mouth		18.14
Summary for 'HUC' = 17010308 (1 detail record)		**Sum**	*18.139*
Summary for 'Basin' = Panhandle (169 detail records)		**Sum**	*2376.9*
Salmon			
HUC	*17060101*		
ID17060101SL026_02	Basin Creek - source to mouth		12.75
ID17060101SL008_02	Bernard Creek - source to mouth		4.51
ID17060101SL020_02	Big Canyon Creek - source to mouth		12.3
ID17060101SL020_03	Big Canyon Creek - source to mouth		3.76
ID17060101SL005_02	Brush Creek - source to mouth		1.68
ID17060101SL013_02	Caribou Creek - source to mouth		3.47
ID17060101SL016_02	Corral Creek - source to mouth		12.22
ID17060101SL027_03	Dry Creek - source to mouth		1.78
ID17060101SL027_02	Dry Creek - source to mouth		1.72
ID17060101SL006_03	Granite Creek - source to mouth		3.11
ID17060101SL022_02	Highrange Creek - source to mouth		5.69

Basin	Segment Name	Length
ID17060101SL021_02	Jones Creek - source to mouth	2.69
ID17060101SL015_02	Kirby Creek - source to mouth	4.27
ID17060101SL014_03	Kirkwood Creek - source to mouth	1.97
ID17060101SL014_02	Kirkwood Creek - source to mouth	20.49
ID17060101SL017_02	Klopton Creek - source to mouth	10.65
ID17060101SL018_02	Kurry Creek - source to mouth	12.96
ID17060101SL007_02	Little Granite Creek - source to mouth	6.76
ID17060101SL009_03	Sheep Creek - confluence of West and East Fork Sheep Creeks	5.96
ID17060101SL003_02	Snake River - Hells Canyon Dam to Sheep Creek	6.11
ID17060101SL002_02	Snake River - Sheep Creek to Wolf Creek	18.69
ID17060101SL001_02	Snake River - Wolf Creek to Salmon River	44.11
ID17060101SL019_02	West Creek - source to mouth	6.05
ID17060101SL024_02	Wolf Creek - Basin Creek to mouth	11.63
Summary for 'HUC' = 17060101 (24 detail records)	**Sum**	*215.33*

HUC	17060103	
ID17060103SL010_02	Billy Creek - source to mouth	6.6
ID17060103SL011_03	Captain John Creek - source to mouth	4.15
ID17060103SL011_02	Captain John Creek - source to mouth	37.27
ID17060103SL006_02	Cave Gulch - source to mouth	7.16
ID17060103SL005_02	Cottonwood Creek - source to mouth	15.04
ID17060103SL005_03	Cottonwood Creek - source to mouth	1.66
ID17060103SL009_02	Dough Creek - source to mouth	4.15
ID17060103SL008_02	Middle Creek - source to mouth	3.54
ID17060103SL012_02	Redbird Creek - source to mouth	10.9

Basin	Segment Name		Length
ID17060103SL001_02	Snake River - Asotin River (Idaho/Oregon border) to Lower Gr		3.75
ID17060103SL002_08	Snake River - Captain John Creek to Asotin River (Idaho/Oreg		17.02
ID17060103SL002_02	Snake River - Captain John Creek to Asotin River (Idaho/Oreg		16.57
ID17060103SL003_02	Snake River - Cottonwood Creek to Captain John Creek		34.82
ID17060103SL003_08	Snake River - Cottonwood Creek to Captain John Creek		19.95
ID17060103SL004_02	Snake River - Salmon River to Cottonwood Creek		17.37
ID17060103SL013_03	Tenmile Canyon - source to mouth		1.44
ID17060103SL013_02	Tenmile Canyon - source to mouth		16.57
ID17060103SL015_02	Unnamed Tributary - source to mouth (T34N, R05W, Sec. 24)		6.22
Summary for 'HUC' = 17060103 (18 detail records)		**Sum**	*224.18*
HUC	*17060201*		
ID17060201SL080_03	Alpine Creek - source to mouth		3.28
ID17060201SL075_04	Alturas Lake Creek - Alturas Lake to mouth		7.46
ID17060201SL079_02	Alturas Lake Creek - source to Alturas Lake		13.4
ID17060201SL079_03	Alturas Lake Creek - source to Alturas Lake		2.61
ID17060201SL048_03	Basin Creek - East Basin Creek to mouth		2.36
ID17060201SL050_04	Basin Creek - source to East Basin Creek		0.09
ID17060201SL104_02	Big Lake Creek - source to mouth		34.37
ID17060201SL115_03	Bowery Creek - source to mouth		1.7
ID17060201SL115_02	Bowery Creek - source to mouth		24.41
ID17060201SL130_02	Bradshaw Gulch - source to mouth		14.74
ID17060201SL046_02	Cabin Creek - source to mouth		9.52
ID17060201SL007_02	Challis Creek - Darling Creek to mouth		2.47
ID17060201SL012_03	Challis Creek - source to Bear Creek		3.29

Basin	Segment Name	Length
ID17060201SL086_02	Champion Creek - source to mouth	19.67
ID17060201SL127_02	Corral Basin Creek - source to mouth	14.94
ID17060201SL059_02	Crooked Creek - source to mouth	6.65
ID17060201SL008_02	Darling Creek - source to mouth	20.08
ID17060201SL069_02	Decker Creek - Huckleberry Creek to mouth	14.26
ID17060201SL069_04	Decker Creek - Huckleberry Creek to mouth	0.3
ID17060201SL122_03	East Fork Herd Creek - source to mouth	2.29
ID17060201SL122_02	East Fork Herd Creek - source to mouth	17.59
ID17060201SL110_03	East Fork Salmon River - confluence of South and West Fork S	5.88
ID17060201SL110_02	East Fork Salmon River - confluence of South and West Fork S	20.42
ID17060201SL103_04	East Fork Salmon River - Germania Creek to Herd Creek	15.65
ID17060201SL102_05	East Fork Salmon River - Herd Creek to mouth	10.38
ID17060201SL102_02	East Fork Salmon River - Herd Creek to mouth	28.24
ID17060201SL119_02	East Pass Creek - source to mouth	38.66
ID17060201SL119_03	East Pass Creek - source to mouth	3.43
ID17060201SL088_03	Fisher Creek - source to mouth	0.71
ID17060201SL065_02	Fishhook Creek - source to mouth	15.77
ID17060201SL061_03	Goat Creek - source to mouth	0.03
ID17060201SL061_02	Goat Creek - source to mouth	9.92
ID17060201SL090_02	Gold Creek - source to mouth	10.05
ID17060201SL118_02	Herd Creek - confluence of West Fork Herd Creek and East Pas	23.73
ID17060201SL134_02	Hole-in-Rock Creek - source to mouth	18.83
ID17060201SL128_02	Horse Basin Creek - source to mouth	21.2
ID17060201SL128_03	Horse Basin Creek - source to mouth	4.47

Basin	Segment Name	Length
ID17060201SL060_02	Iron Creek - source to mouth	10.06
ID17060201SL041_02	Jordan Creek - from and including Unnamed Tributary (T13N, R	3.93
ID17060201SL042_03	Jordan Creek - source to Unnamed Tributary (T13N, R15E, Sec.	2.64
ID17060201SL044_02	Lightning Creek - source to mouth	18.17
ID17060201SL018_02	Lyon Creek - source to mouth	8.82
ID17060201SL117_02	McDonald Creek - source to mouth	10.14
ID17060201SL062_03	Meadow Creek - source to mouth	2.49
ID17060201SL062_02	Meadow Creek - source to mouth	8.18
ID17060201SL002_02	Morgan Creek - West Creek to mouth	22.44
ID17060201SL029_02	Pat Hughes Creek -source to mouth	2.95
ID17060201SL135_02	Pennal Gulch - source to mouth	10.11
ID17060201SL116_02	Pine Creek - source to mouth	13.14
ID17060201SL033_02	Ramey Creek - source to mouth	12.21
ID17060201SL064_03	Redfish Lake Creek - Redfish Lake to mouth	2.58
ID17060201SL067_03	Redfish Lake Creek - source to Redfish Lake	3.94
ID17060201SL124_02	Road Creek - Corral Basin Creek to mouth	17.02
ID17060201SL016_03	Salmon River - East Fork Salmon River to Garden Creek	18.26
ID17060201SL016_04	Salmon River - East Fork Salmon River to Garden Creek	2.25
ID17060201SL072_02	Salmon River - Fisher Creek to Decker Creek	2.51
ID17060201SL014_02	Salmon River - Garden Creek to Pennal Gulch	48.66
ID17060201SL014_03	Salmon River - Garden Creek to Pennal Gulch	16.32
ID17060201SL014_05	Salmon River - Garden Creek to Pennal Gulch	0.81
ID17060201SL014_04	Salmon River - Garden Creek to Pennal Gulch	2.72
ID17060201SL001_04	Salmon River - Pennal Gulch to Pashsimeroi River	18.49

Basin	Segment Name	Length
ID17060201SL001_03	Salmon River - Pennal Gulch to Pashsimeroi River	21.79
ID17060201SL063_02	Salmon River - Redfish Lake Creek to Valley Creek	6.12
ID17060201SL027_02	Salmon River - Thompson Creek to Squaw Creek	21.12
ID17060201SL027_03	Salmon River - Thompson Creek to Squaw Creek	3.1
ID17060201SL129_02	Spar Canyon Creek - source to mouth	44.33
ID17060201SL129_03	Spar Canyon Creek - source to mouth	7.22
ID17060201SL052_03	Stanley Creek - source to mouth	1.86
ID17060201SL101_02	Sullivan Creek - source to mouth	14.54
ID17060201SL101_03	Sullivan Creek - source to mouth	3.48
ID17060201SL120_02	Taylor Creek - source to mouth	7.95
ID17060201SL054_02	Trap Creek - Meadow Creek to mouth	4.65
ID17060201SL053_02	Valley Creek - source to Trap Creek	29.67
ID17060201SL051_03	Valley Creek - Trap Creek to mouth	6.37
ID17060201SL131_03	Warm Spring Creek - Hole-in-Rock Creek to mouth	3.3
ID17060201SL131_02	Warm Spring Creek - Hole-in-Rock Creek to mouth	39.28
ID17060201SL095_02	Warm Springs Creek - Pigtail Creek to Swimm Creek	36.4
ID17060201SL094_02	Warm Springs Creek - Swimm Creek to mouth	25.83
ID17060201SL006_02	West Creek - source to Blowfly Creek	7.46
ID17060201SL111_02	West Fork East Fork Salmon River - source to mouth	9.96
ID17060201SL121_03	West Fork Herd Creek - source to mouth	3.93
ID17060201SL121_02	West Fork Herd Creek - source to mouth	21.83
ID17060201SL043_03	West Fork Yankee Fork Creek - Lightning Creek to mouth	5.23
ID17060201SL043_02	West Fork Yankee Fork Creek - Lightning Creek to mouth	18.37
ID17060201SL045_02	West Fork Yankee Fork Creek - source to Lightning Creek	21.27

Basin	Segment Name		Length
ID17060201SL045_03	West Fork Yankee Fork Creek - source to Lightning Creek		2.19
ID17060201SL089_03	Williams Creek - source to mouth		1.46
ID17060201SL089_02	Williams Creek - source to mouth		12.88
Summary for 'HUC' = 17060201 (88 detail records)		**Sum**	*1083.2*

HUC *17060202*

ID17060202SL023_02	Burnt Creek - Long Creek to mouth		10.89
ID17060202SL014_02	Christian Gulch - source to mouth		17.86
ID17060202SL013_02	Doublespring Creek - Christian Gulch to mouth		3.32
ID17060202SL013_03	Doublespring Creek - Christian Gulch to mouth		5.45
ID17060202SL015_03	Doublespring Creek - source to Christian Gulch		4.65
ID17060202SL015_02	Doublespring Creek - source to Christian Gulch		27.9
ID17060202SL028_02	Goldburg Creek - Donkey Creek to mouth		22.56
ID17060202SL030_03	Goldburg Creek - source to Donkey Creek		2.36
ID17060202SL025_03	Long Creek - Short Creek to mouth		1.69
ID17060202SL025_02	Long Creek - Short Creek to mouth		4.91
ID17060202SL027_03	Long Creek - source to Short Creek		1.11
ID17060202SL027_02	Long Creek - source to Short Creek		26.76
ID17060202SL019_02	Mahogany Creek - source to mouth		17.84
ID17060202SL039_04	Morgan Creek - source to mouth		0.81
ID17060202SL039_02	Morgan Creek - source to mouth		47.03
ID17060202SL037_02	Morse Creek - Irrigation junction to mouth		7.6
ID17060202SL038_02	Morse Creek - source to Irrigation junction (T15S, R23E)		18.93
ID17060202SL016_02	Mud Spring Canyon Complex		25.28
ID17060202SL004_03	North Fork Lawson Creek - source to mouth		1.9

Basin	Segment Name		Length
ID17060202SL008_02	Pahsimeroi River - Big Creek to Furley Road (T15S, R22E)		3.94
ID17060202SL017_02	Pahsimeroi River - Burnt Creek to Unnamed Tributary (T12N, R		4.84
ID17060202SL020_02	Pahsimeroi River - confluence of Rock Creek and East Fork Pa		5.27
ID17060202SL020_03	Pahsimeroi River - confluence of Rock Creek and East Fork Pa		2.96
ID17060202SL010_02	Pahsimeroi River - Goldburg Creek to Big Creek		55.52
ID17060202SL002_03	Pahsimeroi River - Meadow Creek to Patterson Creek		1.11
ID17060202SL001_02	Pahsimeroi River - Patterson Creek to mouth		49.16
ID17060202SL001_03	Pahsimeroi River - Patterson Creek to mouth		4.06
ID17060202SL034_02	Patterson Creek - Inyo Creek to mouth		7.68
ID17060202SL021_02	Rock Creek - source to mouth		5.51
ID17060202SL012_02	Unnamed Tributary - source to mouth (T12N, R23E, Sec. 22)		13.52
ID17060202SL012_03	Unnamed Tributary - source to mouth (T12N, R23E, Sec. 22)		17.44
Summary for 'HUC' = 17060202 (31 detail records)		**Sum**	*419.86*
HUC	*17060203*		
ID17060203SL028_03	Beaver Creek - source to mouth		1.97
ID17060203SL006_02	Big Deer Creek - source to South Fork Big Deer Creek		21.19
ID17060203SL005_02	Big Deer Creek - South Fork Big Deer Creek to mouth		3.45
ID17060203SL069_02	Big Silverlead Creek - source to mouth		10.26
ID17060203SL061_02	Carmen Creek - Freeman Creek to mouth		14.38
ID17060203SL055_03	Cow Creek - source to mouth		4.2
ID17060203SL073_03	Dahlonega Creek - Nez Perce Creek to mouth		4.67
ID17060203SL022_02	Deep Creek - source to Little Deep Creek		17.35
ID17060203SL038_02	Dump Creek - Moose Creek to mouth		3.2
ID17060203SL088_02	East Fork Owl Creek - source to mouth		13.22

Basin	Segment Name	Length
ID17060203SL065_03	Fourth of July Creek - Little Fourth of July Creek to mouth	1.66
ID17060203SL066_03	Fourth of July Creek - source to Little Fourth of July Creek	1.53
ID17060203SL003_02	Garden Creek - source to mouth	13.93
ID17060203SL054_02	Hot Creek - source to mouth	89.89
ID17060203SL054_04	Hot Creek - source to mouth	2.46
ID17060203SL082_03	Hull Creek - source to mouth	0.65
ID17060203SL083_02	Indian Creek - source to mouth	40.93
ID17060203SL050_03	Iron Creek - source to North Fork Iron Creek	0.22
ID17060203SL021_02	Little Deep Creek - source to mouth	13.5
ID17060203SL067_02	Little Fourth of July Creek - source to mouth	4.95
ID17060203SL034_02	Little Moose Creek - source to mouth	5.5
ID17060203SL057_02	McKim Creek - source to mouth	22.21
ID17060203SL035_02	Moose Creek - Dolly Creek to Little Moose Creek	7.97
ID17060203SL033_03	Moose Creek - Little Moose Creek to mouth	2.09
ID17060203SL033_02	Moose Creek - Little Moose Creek to mouth	5.15
ID17060203SL024_04	Napias Creek - Arnett Creek to and including Moccasin Creek	1.37
ID17060203SL023_02	Napias Creek - Moccasin Creek to mouth	1.86
ID17060203SL075_02	Nez Perce Creek - source to mouth	7.3
ID17060203SL072_02	North Fork Salmon River - Dahlonega Creek to Sheep Creek	6.96
ID17060203SL072_04	North Fork Salmon River - Dahlonega Creek to Sheep Creek	3.3
ID17060203SL068_04	North Fork Salmon River - Hughes Creek to mouth	5.71
ID17060203SL068_02	North Fork Salmon River - Hughes Creek to mouth	6.47
ID17060203SL070_02	North Fork Salmon River - Sheep Creek to Hughes Creek	4.76
ID17060203SL070_04	North Fork Salmon River - Sheep Creek to Hughes Creek	2.97

Basin	Segment Name	Length
ID17060203SL078_03	North Fork Salmon River - source to Twin Creek	3.42
ID17060203SL087_02	Owl Creek - East Fork Owl Creek to mouth	1.92
ID17060203SL089_02	Owl Creek - source to East Fork Owl Creek	25.64
ID17060203SL089_03	Owl Creek - source to East Fork Owl Creek	7.54
ID17060203SL002_02	Panther Creek - Big Deer Creek to mouth	27.1
ID17060203SL014_04	Panther Creek - Porphyry Creek to Blackbird Creek	4.76
ID17060203SL079_02	Pierce Creek - source to mouth	10.34
ID17060203SL058_03	Poison Creek - source to mouth	2
ID17060203SL058_02	Poison Creek - source to mouth	22.56
ID17060203SL029_07	Salmon River - Indian Creek to Panther Creek	17.86
ID17060203SL029_02	Salmon River - Indian Creek to Panther Creek	26.1
ID17060203SL032_07	Salmon River - North Fork Sheep Creek to Indian Creek	11.79
ID17060203SL001_07	Salmon River - Panther Creek to Middle Fork Salmon River	11.94
ID17060203SL041_06	Salmon River - Pollard Creek to Carmen Creek	3.32
ID17060203SL041_02	Salmon River - Pollard Creek to Carmen Creek	30.64
ID17060203SL046_02	Salmon River - Twelvemile Creek to Williams Creek	21.02
ID17060203SL042_03	Salmon River - Williams Creek to Pollard Creek	1.24
ID17060203SL071_02	Sheep Creek - source to mouth	34.06
ID17060203SL071_03	Sheep Creek - source to mouth	8.64
ID17060203SL007_02	South Fork Big Deer Creek - Bucktail Creek to mouth	0.52
ID17060203SL008_02	South Fork Big Deer Creek -source to Bucktail Creek	2.93
ID17060203SL064_02	Tower Creek - source to mouth	19.77
ID17060203SL060_02	Twelvemile Creek - source to mouth	17.02
ID17060203SL059_02	Warm Springs Creek - source to mouth	20.25

Basin	Segment Name		Length
ID17060203SL013b_02	West Fork Blackbird Creek - concrete channel to mouth only		0.61
ID17060203SL013a_02	West Fork Blackbird Creek - source to concrete channel		7.87
ID17060203SL051_03	West Fork Iron Creek - source to mouth		2.23
ID17060203SL019_02	Woodtick Creek - source to mouth		12.52
Summary for 'HUC' = 17060203 (62 detail records)		**Sum**	*702.84*
HUC	*17060204*		
ID17060204SL056b_04	Agency Creek - Cow Creek to diversion (T19N, R24E, Sec. 28)		2.56
ID17060204SL056a_04	Agency Creek - diversion (T19N, R24E, Sec. 28) to mouth		1.98
ID17060204SL058_03	Agency Creek - source to Cow Creek		2.05
ID17060204SL006_02	Baldy Creek - source to mouth		9.72
ID17060204SL011_04	Basin Creek - confluence of McNutt Creek and Trail Creek to		1.71
ID17060204SL011_02	Basin Creek - confluence of McNutt Creek and Trail Creek to		9.12
ID17060204SL010_02	Basin Creek - Lake Creek to mouth		3.55
ID17060204SL017_03	Bear Valley Creek - source to Wright Creek		3.64
ID17060204SL016_02	Bear Valley Creek -Wright Creek to mouth		6.02
ID17060204SL029b_02	Big Eightmile Creek - source to diversion (T16N, R25E, Sec.		18.1
ID17060204SL031_02	Big Timber Creek - Little Timber Creek to mouth		3.94
ID17060204SL033_02	Big Timber Creek - Rocky Creek to Little Timber Creek		15.11
ID17060204SL051a_03	Canyon Creek - diversion (T16N, R26E, Sec.22) to mouth		1.45
ID17060204SL057_02	Cow Creek - source to mouth		10
ID17060204SL037_02	Deer Creek - source to mouth		6.94
ID17060204SL044_02	Divide Creek - source to mouth		29.56
ID17060204SL044_03	Divide Creek - source to mouth		2.73
ID17060204SL042_02	Eighteenmile Creek - Clear Creek to Hawley Creek		5.53

Basin	Segment Name	Length
ID17060204SL065a_03	Geertson Creek - diversion (T21N, R23E, Sec. 20) to mouth	0.93
ID17060204SL050b_02	Hawley Creek - source to diversion (T15N, R27E, Sec. 03)	51.5
ID17060204SL009_02	Hayden Creek - Basin Creek to mouth	3.45
ID17060204SL015_02	Hayden Creek - Bear Valley Creek to Basin Creek	8.67
ID17060204SL015_04	Hayden Creek - Bear Valley Creek to Basin Creek	4.96
ID17060204SL004_06	Haynes Creek - source to mouth	2.63
ID17060204SL066b_02a	Kirtley Creek	1.52
ID17060204SL066a_02	Kirtley Creek - diversion (T21N, R22E, Sec. 02) to mouth	3.73
ID17060204SL014_02	Lake Creek - source to mouth	7.06
ID17060204SL028_03	Lee Creek - source to mouth	4.29
ID17060204SL025_02	Lemhi River - confluence of Big and Little Eightmile Creeks	10.16
ID17060204SL030_03	Lemhi River - confluence of Eighteenmile Creek and Texas Cre	6.88
ID17060204SL030_02	Lemhi River - confluence of Eighteenmile Creek and Texas Cre	38.28
ID17060204SL005_02	Lemhi River - Hayden Creek to Kenney Creek	27.28
ID17060204SL024_03	Lemhi River - Peterson Creek to Hayden Creek	1.21
ID17060204SL024_02	Lemhi River - Peterson Creek to Hayden Creek	41.17
ID17060204SL032a_03	Little Timber Creek - diversion (T15N, R25E, Sec. 24) to mou	2.54
ID17060204SL007a_02	McDevitt Creek - diversion (T19N, R23E, Sec. 36) to mouth	2.12
ID17060204SL013_03	McNutt Creek - source to mouth	1.4
ID17060204SL039_02	Meadow Lake Creek - source to mouth	4.94
ID17060204SL008_02	Muddy Creek - source to mouth	10.86
ID17060204SL059a_03	Pattee Creek - diversion (T19N, R24E, Sec. 16) to mouth	0.88
ID17060204SL053_02	Peterson Creek - source to mouth	14.17
ID17060204SL049_02	Powderhorn Gulch - source to mouth	7.63

Basin	Segment Name		Length
ID17060204SL060a_02	Pratt Creek - diversion (T20N, R23E, Sec. 11) to mouth		0.44
ID17060204SL060b_02	Pratt Creek - source to diversion (T20N, R23E, Sec. 11)		3.56
ID17060204SL054_02	Reese Creek - source to mouth		9.87
ID17060204SL048_02	Tenmile Creek - source to Powderhorn Gulch		6.36
ID17060204SL036_02	Texas Creek - Deer Creek to mouth		35.09
ID17060204SL038_02	Texas Creek - Meadow Creek to Deer Creek		14.3
ID17060204SL038_03	Texas Creek - Meadow Creek to Deer Creek		1.9
ID17060204SL040_02	Texas Creek - source to Meadow Lake Creek		14.06
ID17060204SL012_03	Trail Creek - source mouth		1.38
ID17060204SL012_02	Trail Creek - source mouth		19.41
ID17060204SL003a_06	Withington Creek - diversion (T20N, R23E, Sec. 09) to mouth		3.59
ID17060204SL003b_03	Withington Creek - source to diversion (T20N, R23E, Sec. 09)		3.19
ID17060204SL018_03	Wright Creek - source to mouth		3.7
ID17060204SL055a_03	Yearian Creek - diversion (T17N, R24E, Sec. 03) to mouth		1.77
ID17060204SL055b_02	Yearian Creek - source to diversion (T17N, R24E, Sec. 03)		16.72
Summary for 'HUC' = 17060204 (57 detail records)		**Sum**	*527.30*

HUC	17060205		
ID17060205SL032_03	Bear Creek - source to mouth		1.18
ID17060205SL028_04	Beaver Creek - Bear Creek to mouth		5.26
ID17060205SL029_03	Beaver Creek - Winnemucca Creek to Bear Creek		2.93
ID17060205SL010_02	Boundary Creek - source to mouth		9.3
ID17060205SL056_02	Canyon Creek - source to mouth		7.92
ID17060205SL020_02	Cape Horn Creek - Banner Creek to mouth		8.31
ID17060205SL039_02	Float Creek - source to mouth		11.56

Basin	Segment Name	Length
ID17060205SL039_03	Float Creek - source to mouth	2.61
ID17060205SL034_02	Greyhound Creek - source to mouth	9.43
ID17060205SL034_03	Greyhound Creek - source to mouth	1.97
ID17060205SL054_02	Grouse Creek - source to mouth	5.46
ID17060205SL048_02	Loon Creek - Cabin Creek to mouth	69.86
ID17060205SL055_04	Loon Creek - Canyon Creek to Grouse Creek	1.48
ID17060205SL053_02	Loon Creek - Grouse Creek to Shell Creek	12.14
ID17060205SL053_04	Loon Creek - Grouse Creek to Shell Creek	2.97
ID17060205SL057_02	Loon Creek - Pioneer Creek to Canyon Creek	9.39
ID17060205SL057_04	Loon Creek - Pioneer Creek to Canyon Creek	3.57
ID17060205SL049_02	Loon Creek - Warm Springs Creek to Cabin Creek	18.1
ID17060205SL043_02	Lucinda Creek - source to mouth	4.18
ID17060205SL002_02	Marble Creek - source to mouth	88.93
ID17060205SL002_04	Marble Creek - source to mouth	15.86
ID17060205SL018_05	Marsh Creek - Beaver Creek to mouth	5.47
ID17060205SL019_04	Marsh Creek - Knapp Creek to Beaver Creek	0.83
ID17060205SL062_03	Mayfield Creek - confluence of East and West Fork Mayfield C	3.16
ID17060205SL001_02	Middle Fork Salmon River - confluence of Bear Valley Creek a	194.53
ID17060205SL061_02	No Name Creek - source to mouth	1.38
ID17060205SL060_02	Pioneer Creek - source to mouth	14.76
ID17060205SL007_02	Pistol Creek - source to mouth	128.43
ID17060205SL038_03	Rapid River - Float Creek to Lucinda Creek	2.1
ID17060205SL038_02	Rapid River - Float Creek to Lucinda Creek	20.12
ID17060205SL038_04	Rapid River - Float Creek to Lucinda Creek	4.65

Basin	Segment Name		Length
ID17060205SL042_02	Rapid River - source to Vanity Creek		39.06
ID17060205SL042_03	Rapid River - source to Vanity Creek		4.09
ID17060205SL040_04	Rapid River - Vanity Creek to Float Creek		1.42
ID17060205SL040_02	Rapid River - Vanity Creek to Float Creek		1.37
ID17060205SL009_02	Sulphur Creek - source to mouth		59.31
ID17060205SL058_02	Trail Creek - source to mouth		15.27
ID17060205SL058_03	Trail Creek - source to mouth		1.22
ID17060205SL003_03	Trail Creek - source to mouth		6.6
ID17060205SL041_03	Vanity Creek - source to mouth		0.84
ID17060205SL069_02	Warm Springs Creek - source to Trapper Creek		18.26
ID17060205SL030_02	Winnemucca Creek - source to mouth		12.93
Summary for 'HUC' = 17060205 (42 detail records)		**Sum**	*828.20*
HUC	*17060206*		
ID17060206SL003_02	Big Creek - source to mouth		131.61
ID17060206SL003_03	Big Creek - source to mouth		4.97
ID17060206SL003_04	Big Creek - source to mouth		12.73
ID17060206SL018_03	Brush Creek - source to mouth		6.63
ID17060206SL018_02	Brush Creek - source to mouth		31.74
ID17060206SL025_02	Camas Creek - Castle Creek to Silver Creek		1.99
ID17060206SL022_04	Camas Creek - Duck Creek to Forge Creek		3.8
ID17060206SL022_02	Camas Creek - Duck Creek to Forge Creek		10.85
ID17060206SL021_04	Camas Creek - Forge Creek to Yellowjacket Creek		3.62
ID17060206SL021_02	Camas Creek - Forge Creek to Yellowjacket Creek		25.13
ID17060206SL026_02	Camas Creek - Furnance Creek to Castle Creek		8.8

Basin	Segment Name	Length
ID17060206SL026_04	Camas Creek - Furnance Creek to Castle Creek	2.65
ID17060206SL023_04	Camas Creek - Silver Creek to Duck Creek	2.2
ID17060206SL023_02	Camas Creek - Silver Creek to Duck Creek	5.06
ID17060206SL030_02	Camas Creek - source to South Fork Camas Creek	47.09
ID17060206SL028_04	Camas Creek - South Fork Camas Creek to White Goat Creek	1.64
ID17060206SL027_02	Camas Creek - White Goat Creek to Furnance Creek	4.79
ID17060206SL027_04	Camas Creek - White Goat Creek to Furnance Creek	1.87
ID17060206SL020_04	Camas Creek - Yellowjacket Creek to mouth	4.37
ID17060206SL020_02	Camas Creek - Yellowjacket Creek to mouth	16.56
ID17060206SL036_02	Forge Creek - source to mouth	6.15
ID17060206SL032_02	Furnace Creek - source to mouth	19.12
ID17060206SL050_02	Goat Creek - source to mouth	9.22
ID17060206SL010_03	Logan Creek - source to mouth	0.41
ID17060206SL010_02	Logan Creek - source to mouth	22.7
ID17060206SL001_03	Middle Fork Salmon River - Loon Creek to mouth	6.81
ID17060206SL001_06	Middle Fork Salmon River - Loon Creek to mouth	45.27
ID17060206SL001_02	Middle Fork Salmon River - Loon Creek to mouth	172.97
ID17060206SL002_03	Papoose Creek - source to mouth	2.99
ID17060206SL049_03	Roaring Creek - source to mouth	4.37
ID17060206SL019_03	Sheep Creek - source to mouth	7.97
ID17060206SL048_02	Ship Island Creek - source to mouth	10.09
ID17060206SL009_03	Smith Creek - source to mouth	3.95
ID17060206SL009_02	Smith Creek - source to mouth	14.38
ID17060206SL017_02	Soldier Creek - source to mouth	19.73

Basin	Segment Name		Length
ID17060206SL047_03	Waterfall Creek - source to mouth		1.3
ID17060206SL031_02	White Goat Creek - source to mouth		5.48
ID17060206SL046_03	Wilson Creek - source to mouth		11.23
ID17060206SL046_02	Wilson Creek - source to mouth		29.64
ID17060206SL038_03	Yellowjacket Creek - Hoodoo Creek to Jenny Creek		1.56
ID17060206SL039_03	Yellowjacket Creek - Little Jacket Creek to Hoodoo Creek		0.82
ID17060206SL041_03	Yellowjacket Creek - Trail Creek to Little Jacket Creek		2.98
ID17060206SL041_02	Yellowjacket Creek - Trail Creek to Little Jacket Creek		2.88
Summary for 'HUC' = 17060206 (43 detail records)		**Sum**	*730.12*

HUC	17060207		
ID17060207SL055_02	Bargamin Creek - source to mouth		100.63
ID17060207SL017_02	Big Bear Creek - source to mouth		11.74
ID17060207SL064_02	Big Blowout Creek - source to mouth		7.55
ID17060207SL072_03	Bull Creek - source to mouth		4.54
ID17060207SL038_02	Butts Creek - source to mouth		8.88
ID17060207SL004_02	California Creek - source to mouth		28.34
ID17060207SL004_03	California Creek - source to mouth		2.04
ID17060207SL003_02	Carey Creek - source to mouth		7.9
ID17060207SL019_05	Chamberlain Creek - McCalla Creek to mouth		4.21
ID17060207SL005_02	Cottontail Creek - source to mouth		5.64
ID17060207SL035_02	Cottonwood Creek - source to mouth		44.15
ID17060207SL035_03	Cottonwood Creek - source to mouth		11.91
ID17060207SL015_02	Dillinger Creek - source to mouth		14.69
ID17060207SL045_02	East Fork Reynolds Creek - source to mouth		14.08

Basin	Segment Name	Length
ID17060207SL073_02	Elk Creek - source to mouth	9.44
ID17060207SL012_02	Fall Creek - source to mouth	2.62
ID17060207SL002_02	Fall Creek - source to mouth	21.73
ID17060207SL002_03	Fall Creek - source to mouth	1.33
ID17060207SL009_03	Fivemile Creek - source to mouth	7.48
ID17060207SL049_03	Harrington Creek - source to mouth	2.19
ID17060207SL041_04	Horse Creek - Little Horse Creek to mouth	9.3
ID17060207SL043_02	Horse Creek - Reynolds Creek to Little Horse Creek	15.5
ID17060207SL043_04	Horse Creek - Reynolds Creek to Little Horse Creek	4.68
ID17060207SL044_03	Horse Creek - source to Reynolds Creek	5.28
ID17060207SL044_02	Horse Creek - source to Reynolds Creek	35.65
ID17060207SL016_02	Hot Springs Creek - source to mouth	9.62
ID17060207SL066_02	Indian Creek - source to mouth	8.81
ID17060207SL039_02	Kitchen Creek - source to mouth	21.28
ID17060207SL070_02	Lake Creek - source to mouth	51.3
ID17060207SL011_02	Lemhi Creek - source to mouth	16.04
ID17060207SL010_02	Little Fivemile Creek - source to mouth	10.43
ID17060207SL042_02	Little Horse Creek - source to mouth	16.82
ID17060207SL048_02	Little Squaw Creek - source to mouth	6.92
ID17060207SL077_03	Meadow Creek - source to mouth	6.34
ID17060207SL077_02	Meadow Creek - source to mouth	31.8
ID17060207SL056_02	Porcupine Creek - source to mouth	8.55
ID17060207SL006_02	Rabbit Creek - source to mouth	8.28
ID17060207SL054_02	Rattlesnake Creek - source to mouth	13.5

Basin	Segment Name		Length
ID17060207SL046_03	Reynolds Creek - source to mouth		1.53
ID17060207SL014_03	Richardson Creek - source to mouth		3.93
ID17060207SL050_04	Sabe Creek - Hamilton Creek to mouth		6.04
ID17060207SL052_02	Sabe Creek - source to Hamilton Creek		34.63
ID17060207SL008_02	Salmon River - Chamberlain Creek to South Fork Salmon River		124.83
ID17060207SL018_02	Salmon River - Horse Creek to Chamberlain Creek		43.72
ID17060207SL001_02	Salmon River - South Fork Salmon River to river mile 106 (T2		63.71
ID17060207SL074_02	Sheep Creek - source to mouth		56.12
ID17060207SL074_03	Sheep Creek - source to mouth		8.43
ID17060207SL013_02	Trout Creek - source to mouth		13.04
ID17060207SL076_02	Wind River - source to mouth		37.54
Summary for 'HUC' = 17060207 (49 detail records)		**Sum**	*984.71*

HUC	17060208		
ID17060208SL014_02	Blackmare Creek - 1st and 2nd order		19.23
ID17060208SL012_02	Buckhorn Creek - 1st and 2nd order		56.32
ID17060208SL012_05	Buckhorn Creek - 5th order		0.49
ID17060208SL026_02	Burntlog Creek - source to mouth		48.53
ID17060208SL019_03	Cabin Creek - source to mouth		1.93
ID17060208SL019_02	Cabin Creek - source to mouth		16.21
ID17060208SL022_02	Camp Creek - 1st and 2nd order		34.21
ID17060208SL024_02	Caton Creek - 1st and 2nd order		37.39
ID17060208SL024_03	Caton Creek - 3rd order		6.67
ID17060208SL013_03	Cougar Creek - source to mouth		2.79
ID17060208SL013_02	Cougar Creek - source to mouth		16

Basin	Segment Name		Length
ID17060208SL034_02	Elk Creek - 1st and 2nd order		37.03
ID17060208SL034_03	Elk Creek - 3rd order		1.16
ID17060208SL011_02	Fitsum Creek - 1st and 2nd order		40.3
ID17060208SL006_03	Lake Creek - source to mouth		4.05
ID17060208SL006_02	Lake Creek - source to mouth		43.66
ID17060208SL009_02	Lick Creek - 1st and 2nd order		25.41
ID17060208SL032_02	Quartz Creek - 1st and 2nd		16.63
ID17060208SL002_02	Raines Creek - source to mouth		12.13
ID17060208SL028_02	Riordan Creek - source to mouth		21.9
ID17060208SL005_02	Secesh River - confluence of Summitt Creek and Lake Creek to		146.86
ID17060208SL033_02	Sheep Creek - source to mouth		25.71
ID17060208SL033_03	Sheep Creek - source to mouth		4.08
ID17060208SL001_03	South Fork Salmon River - East Fork Salmon River to mouth		1.08
ID17060208SL001_02	South Fork Salmon River - East Fork Salmon River to mouth		118.87
ID17060208SL029_03	Sugar Creek - source to mouth		2.79
ID17060208SL029_02	Sugar Creek - source to mouth		20.4
ID17060208SL017_03	Trail Creek - 3rd order		1.42
ID17060208SL027_02	Trapper Creek - 1st and 2nd order		13.88
Summary for 'HUC' = 17060208 (29 detail records)		**Sum**	*777.12*
HUC	*17060209*		
ID17060209SL028_02	Allison Creek - West Fork Allison Creek to mouth		2.83
ID17060209SL052_02	Asbestos Creek - source to mouth		2.86
ID17060209SL031_02	Berg Creek - source to mouth		7.19
ID17060209SL004_02	Billy Creek - source to mouth		5.16

Basin	Segment Name	Length
ID17060209SL005_02	Burnt Creek - source to mouth	4.18
ID17060209SL038_02	Deadhorse Creek - source to mouth	8.36
ID17060209SL063_02	Eagle Creek - source to mouth	29.92
ID17060209SL063_03	Eagle Creek - source to mouth	5.97
ID17060209SL022_02	Elkhorn Creek - source to mouth	26.65
ID17060209SL032_02	Fiddle Creek - source to mouth	12.32
ID17060209SL002_02	Flynn Creek - source to mouth	11.52
ID17060209SL023_03	French Creek - Little French Creek to mouth	12.43
ID17060209SL023_02	French Creek - Little French Creek to mouth	26
ID17060209SL025_02	French Creek - source to Little French Creek	26.21
ID17060209SL025_03	French Creek - source to Little French Creek	2.79
ID17060209SL018_02	Grave Creek - source to mouth	4.87
ID17060209SL033_02	John Day Creek - source to mouth	25.07
ID17060209SL033_03	John Day Creek - source to mouth	4.01
ID17060209SL026_02	Kelly Creek - source to mouth	14.71
ID17060209SL020_03	Lake Creek - source to mouth	6.2
ID17060209SL020_02	Lake Creek - source to mouth	17.17
ID17060209SL024_02	Little French Creek - source to mouth	27.7
ID17060209SL035_02	Little Van Buren Creek - source to mouth	5.96
ID17060209SL043_02	McKinzie Creek - source to mouth	16.08
ID17060209SL046_02	North Fork Skookumchuck Creek - source to mouth	21.3
ID17060209SL042_02	North Fork Slate Creek - source to mouth	15.13
ID17060209SL055_03	North Fork Whitebird Creek - source to mouth	6.05
ID17060209SL055_02	North Fork Whitebird Creek - source to mouth	33.12

Basin	Segment Name	Length
ID17060209SL021_02	Partridge Creek - source to mouth	27.88
ID17060209SL021_03	Partridge Creek - source to mouth	8.19
ID17060209SL014_02	Race Creek - 1st order tributary	1.06
ID17060209SL056_02	Rock Creek - tributaries	8.39
ID17060209SL006_02	Round Spring Creek - source to mouth	9.16
ID17060209SL011_02	Salmon River - Little Salmon River to Slate Creek	60.46
ID17060209SL011_07	Salmon River - Little Salmon River to Slate Creek	19.81
ID17060209SL001_02	Salmon River - Rice Creek to mouth	131.4
ID17060209SL001_03	Salmon River - Rice Creek to mouth	1.37
ID17060209SL001_07	Salmon River - Rice Creek to mouth	37.36
ID17060209SL019_02	Salmon River - river mile 106 (T24N, R04E, Sec. 18) to Littl	43.81
ID17060209SL019_07	Salmon River - river mile 106 (T24N, R04E, Sec. 18) to Littl	19.02
ID17060209SL008_07	Salmon River - Slate Creek to Rice Creek	27.88
ID17060209SL008_02	Salmon River - Slate Creek to Rice Creek	96.84
ID17060209SL034_02	Slate Creek - from and including Hurley Creek to mouth	12.54
ID17060209SL036_02	Slate Creek - Little Slate Creek to Hurley Creek	22.51
ID17060209SL009_02	Sotin Creek - source to mouth	4.34
ID17060209SL016_02	South Fork Race Creek - source to mouth	8.3
ID17060209SL045_03	South Fork Skookumchuck Creek - source to mouth	3.21
ID17060209SL048_02	South Fork Whitebird Creek - Little Whitebird Creek to mouth	3.92
ID17060209SL048_03	South Fork Whitebird Creek - Little Whitebird Creek to mouth	4.38
ID17060209SL050_02	South Fork Whitebird Creek - source to Little Whitebird Cree	9.28
ID17060209SL050_03	South Fork Whitebird Creek - source to Little Whitebird Cree	6.63
ID17060209SL053_02	Teepee Creek - source to mouth	4.75

Basin	Segment Name		Length
ID17060209SL059_02	Telcher Creek - source to mouth		17.29
ID17060209SL027_02	Van Creek - source to mouth		4.66
ID17060209SL065_02	Wapshilla Creek - source to mouth		11.85
ID17060209SL065_03	Wapshilla Creek - source to mouth		1.05
ID17060209SL030_02	West Fork Allison Creek - source to mouth		10.72
ID17060209SL047_02	Whitebird Creek - confluence of North and South Fork Whitebi		46.23
ID17060209SL047_03	Whitebird Creek - confluence of North and South Fork Whitebi		1.93
ID17060209SL047_04	Whitebird Creek - confluence of North and South Fork Whitebi		5.74
Summary for 'HUC' = 17060209 (60 detail records)		**Sum**	*1053.7*
HUC	*17060210*		
ID17060210SL010_04	Goose Creek - source to mouth		5.45
ID17060210SL010_03	Goose Creek - source to mouth		8.34
ID17060210SL015_02	Hard Creek - source to mouth		36.28
ID17060210SL014_02	Hazard Creek - source to mouth		43.39
ID17060210SL014_04	Hazard Creek - source to mouth		0.88
ID17060210SL014_03	Hazard Creek - source to mouth		7.21
ID17060210SL008_03	Mud Creek - 3rd order		8.13
ID17060210SL004_02	Paradise Creek - source to mouth		6.85
ID17060210SL002_03	Rapid River - source to mouth		12.51
ID17060210SL002_04	Rapid River - source to mouth		6.55
ID17060210SL006_03	Round Valley Creek - source to mouth		1.86
ID17060210SL013_02	Sixmile Creek - source to mouth		10.48
ID17060210SL003_02	West Fork Rapid River - source to mouth		33
ID17060210SL003_03	West Fork Rapid River - source to mouth		2.47

Basin	Segment Name		Length
Summary for 'HUC' = 17060210 (14 detail records)		**Sum**	*183.39*
Summary for 'Basin' = Salmon (517 detail records)		**Sum**	*7730.0*

Southwest

HUC 17050101

ID17050101SW003_04	Browns Creek - 4th order	4.05
ID17050101SW023_02	Canyon Creek - confluence of Syrup and Long Tom Creeks to Fr	44.34
ID17050101SW023_05	Canyon Creek - confluence of Syrup and Long Tom Creeks to Fr	0.55
ID17050101SW023_04	Canyon Creek - confluence of Syrup and Long Tom Creeks to Fr	21.43
ID17050101SW021_04	Canyon Creek - Fraiser Reservoir Dam to mouth	6.5
ID17050101SW021_02	Canyon Creek - Fraiser Reservoir Dam to mouth	10.55
ID17050101SW021_05	Canyon Creek - Fraiser Reservoir Dam to mouth	10.7
ID17050101SW014_02	Cold Springs Creek - 1st and 2nd order	24.96
ID17050101SW008_03	Deadman Creek - 3rd order	38.44
ID17050101SW018_02	Dive Creek - source to mouth	4.3
ID17050101SW010_02	King Hill Creek - 1st and 2nd order	46.16
ID17050101SW010_03	King Hill Creek - 3rd order	11.57
ID17050101SW024_02	Long Tom Creek - 1st and 2nd order	37.87
ID17050101SW024_03	Long Tom Creek - 3rd order	10.5
ID17050101SW007_03	Pot Hole Creek - source to mouth	21.24
ID17050101SW007_02	Pot Hole Creek - source to mouth	102.24
ID17050101SW019_02	Rattlesnake Creek - source to mouth (T05S, R06E)	39.07
ID17050101SW009_02	Rosevear Gulch - source to mouth	63.1
ID17050101SW009_03	Rosevear Gulch - source to mouth	11.08
ID17050101SW006_04	Sailor Creek - source to mouth	22.85

Basin	Segment Name		Length
ID17050101SW001_05	Snake River - Browns Creek to C.J. Strike Dam		0.54
ID17050101SW001_03	Snake River - Browns Creek to C.J. Strike Dam		6.21
ID17050101SW005_02	Snake River - Clover Creek to Browns Creek		16.67
ID17050101SW026_04	Squaw Creek - source to mouth		17.22
ID17050101SW026_03	Squaw Creek - source to mouth		10.9
ID17050101SW026_02	Squaw Creek - source to mouth		77.79
ID17050101SW025_03	Syrup Creek - source to mouth		5.77
ID17050101SW025_02	Syrup Creek - source to mouth		32.35
ID17050101SW004_02	West Fork Browns Creek - source to mouth		63.59
ID17050101SW004_03	West Fork Browns Creek - source to mouth		15.76
ID17050101SW011_02	West Fork King Hill Creek - source to mouth		29.42
Summary for 'HUC' = 17050101 (31 detail records)		**Sum**	*807.71*
HUC	*17050102*		
ID17050102SW004_02	Big Jacks Creek - 1st and 2nd order		214.02
ID17050102SW004_03	Big Jacks Creek -3rd order		21.58
ID17050102SW013_02	Bruneau River - 1st and 2nd order		69.64
ID17050102SW009_02	Bruneau River - 1st and 2nd order		58.91
ID17050102SW009_03	Bruneau River - 3rd order		0.54
ID17050102SW013_06	Bruneau River - 6th order		8.71
ID17050102SW011_02	Bruneau River - Clover Creek (East Fork Bruneau River) to Ho		97.62
ID17050102SW011_03	Bruneau River - Clover Creek (East Fork Bruneau River) to Ho		13.6
ID17050102SW011_06	Bruneau River - Clover Creek (East Fork Bruneau River) to Ho		18.22
ID17050102SW020_02	Bruneau River - Idaho/Nevada border to Jarbridge River		94.47
ID17050102SW020_03	Bruneau River - Idaho/Nevada border to Jarbridge River		5.23

Basin	Segment Name	Length
ID17050102SW035_03	Buck Flat Draw - source to mouth	14.93
ID17050102SW035_02	Buck Flat Draw - source to mouth	89.47
ID17050102SW017_02	Bull Creek - 1st and 2nd order	29.48
ID17050102SW028_02	Clover Creek (East Fork Bruneau River) - 1st and 2nd order	88.6
ID17050102SW028_03	Clover Creek (East Fork Bruneau River) - 3rd order	2.47
ID17050102SW005_02	Cottonwood Creek - source to mouth	20.07
ID17050102SW023_03	Dorsey Creek - 3rd order	4.87
ID17050102SW006_02	Duncan Creek - 1st and 2nd order	38.06
ID17050102SW006_03	Duncan Creek - 3rd order	5.42
ID17050102SW024_03	East Fork Jarbridge River - Idaho/Nevada border to mouth	4.93
ID17050102SW024_02	East Fork Jarbridge River - Idaho/Nevada border to mouth	3.18
ID17050102SW002_03	Jacks Creek - 3rd order	11.57
ID17050102SW002_04	Jacks Creek - 4th order	8.26
ID17050102SW029_03	Juniper Draw - source to mouth	3.9
ID17050102SW029_02	Juniper Draw - source to mouth	78.21
ID17050102SW003_02	Little Jacks Creek - source to mouth	142.32
ID17050102SW003_03	Little Jacks Creek - source to mouth	10.39
ID17050102SW015_02	Louse Creek - 1st and 2nd order	101.33
ID17050102SW015_03	Louse Creek - 3rd order	25.05
ID17050102SW016_03	Marys Creek - 3rd order	12.76
ID17050102SW012_04	Miller Water - source to mouth	11.4
ID17050102SW012_02	Miller Water - source to mouth	81.39
ID17050102SW012_03	Miller Water - source to mouth	2.44
ID17050102SW014_02	Sheep Creek - 1st and 2nd order	112.65

Basin	Segment Name		Length
ID17050102SW027_03	Sheepshead Draw - source to mouth		2.63
ID17050102SW027_02	Sheepshead Draw - source to mouth		9.23
ID17050102SW026_02	Unnamed Tributary - source to mouth (T11S, R07E, Sec. 27)		101.4
ID17050102SW026_03	Unnamed Tributary - source to mouth (T11S, R07E, Sec. 27)		14.73
Summary for 'HUC' = 17050102 (39 detail records)		**Sum**	*1633.6*

HUC *17050103*

ID17050103SW017_03	Bates Creek - source to mouth		1.74
ID17050103SW017_02	Bates Creek - source to mouth		19.07
ID17050103SW015_02	Catherine Creek - confluence of Hart and Picket Creeks to mo		6.57
ID17050103SW015_05	Catherine Creek - confluence of Hart and Picket Creeks to mo		5.72
ID17050103SW012_02a	East Fork Sinker Creek		36.6
ID17050103SW013_02	Fossil Creek - source to mouth		65.22
ID17050103SW013_03	Fossil Creek - source to mouth		10.13
ID17050103SW018_02	Hart Creek - source to mouth		46.19
ID17050103SW018_03	Hart Creek - source to mouth		5.15
ID17050103SW022_02	McKeeth Wash - source to mouth		44.08
ID17050103SW022_03	McKeeth Wash - source to mouth		10.08
ID17050103SW011_02	Rabbit Creek - source to mouth		117.53
ID17050103SW011_04	Rabbit Creek - source to mouth		7.9
ID17050103SW011_03	Rabbit Creek - source to mouth		7.65
ID17050103SW024_04	Shoofly Creek - source to mouth		19.98
ID17050103SW012_02	Sinker Creek - source to mouth		63.66
ID17050103SW012_08	Sinker Creek - source to mouth		0.08
ID17050103SW001_02	Snake River - 1st and 2nd order		8.48

Basin	Segment Name		Length
ID17050103SW002_02	Succor Creek - 1st and 2nd order		22.54
ID17050103SW002_03	Succor Creek - 3rd order		7.53
ID17050103SW023_03	Vinson Wash - source to mouth		7.91
ID17050103SW023_02	Vinson Wash - source to mouth		60.73
ID17050103SW010_03	West Rabbit Creek - source to mouth		5.79
ID17050103SW010_02	West Rabbit Creek - source to mouth		30.61
Summary for 'HUC' = 17050103 (24 detail records)		**Sum**	*610.93*

HUC *17050104*

ID17050104SW033_03	Beaver Creek - 3rd order		3.7
ID17050104SW033_04	Beaver Creek - 4th order		2.57
ID17050104SW025_03	Big Springs Creek - 3rd order		3.99
ID17050104SW007_04	Blue Creek - Blue Creek Reservoir Dam to mouth		10.63
ID17050104SW007_05	Blue Creek - Blue Creek Reservoir Dam to mouth		25.03
ID17050104SW007_03	Blue Creek - Blue Creek Reservoir Dam to mouth		5.77
ID17050104SW007_02	Blue Creek - Blue Creek Reservoir Dam to mouth		49.56
ID17050104SW013_02	Blue Creek - source to Blue Creek Reservoir Dam		80.2
ID17050104SW029_02	Camas Creek - 1st and 2nd order		40.16
ID17050104SW030_03	Camel Creek - 3rd order		2.12
ID17050104SW026_03	Deep Creek - 3rd order		24.9
ID17050104SW027_03	Dickshooter Creek - source to mouth		6.27
ID17050104SW027_02	Dickshooter Creek - source to mouth		107.68
ID17050104SW027_04	Dickshooter Creek - source to mouth		0.04
ID17050104SW027_05	Dickshooter Creek - source to mouth		14.43
ID17050104SW024_02	Dry Creek - 1st and 2nd order		27.03

Basin	Segment Name	Length
ID17050104SW015_03	Harris Creek - source to mouth	9.03
ID17050104SW015_02	Harris Creek - source to mouth	46.35
ID17050104SW004_02	Juniper Creek - 1st and 2nd order	59.69
ID17050104SW004_03	Juniper Creek - 3rd order	4.53
ID17050104SW004_04	Juniper Creek - 4th order	9.37
ID17050104SW012_03	Little Blue Creek - source to mouth	5.83
ID17050104SW012_02	Little Blue Creek - source to mouth	49.95
ID17050104SW031_04	Nickel Creek - source to mouth	8.21
ID17050104SW031_03	Nickel Creek - source to mouth	9.7
ID17050104SW001_03	Owhyee River - 3rd order	8.85
ID17050104SW001_02	Owyhee River - 1st and 2nd order	109.26
ID17050104SW006_02	Owyhee River - Idaho/Nevada border to Juniper Creek	110.36
ID17050104SW006_06	Owyhee River - Idaho/Nevada border to Juniper Creek	38.62
ID17050104SW006_05	Owyhee River - Idaho/Nevada border to Juniper Creek	1.54
ID17050104SW006_03	Owyhee River - Idaho/Nevada border to Juniper Creek	2.29
ID17050104SW009_02	Papoose/Mud Creek complex	39.78
ID17050104SW009_03	Papoose/Mud Creek complex	5.68
ID17050104SW010_03	Payne Creek - source to mouth	11.24
ID17050104SW010_02	Payne Creek - source to mouth	41.65
ID17050104SW010_04	Payne Creek - source to mouth	0.71
ID17050104SW026_02a	Piute Creek	71.3
ID17050104SW003_02	Piute Creek - 1st and 2nd order	102.32
ID17050104SW003_03	Piute Creek - 3rd order	8.79
ID17050104SW003_04	Piute Creek - 4th order	6.35

Basin	Segment Name		Length
ID17050104SW014_05	Shoofly Creek - source to mouth		0.21
ID17050104SW011_03	Squaw Creek - source to mouth		1.45
ID17050104SW011_02	Squaw Creek - source to mouth		57.53
ID17050104SW002_02	Unnamed Tributaries and playas of YP Desert (T14S, R04W)		13.79
ID17050104SW021_02	Unnamed Tributary - source to mouth (T15S, R01W, Sec. 01)		17.34
ID17050104SW022_02	Yatahoney Creek - 1st and 2nd order		44.23
ID17050104SW022_03	Yatahoney Creek - 3rd order		7.22
Summary for 'HUC' = 17050104 (47 detail records)		**Sum**	*1307.2*
HUC	*17050105*		
ID17050105SW005_02	Coyote Flat - source to mouth		30.33
ID17050105SW005_03	Coyote Flat - source to mouth		4.72
ID17050105SW001_02	South Fork Owyhee River - Idaho/Nevada border to mouth		127.7
ID17050105SW001_04	South Fork Owyhee River - Idaho/Nevada border to mouth		1.34
ID17050105SW001_03	South Fork Owyhee River - Idaho/Nevada border to mouth		1.25
ID17050105SW002_02	Spring Creek - source to mouth		46.56
ID17050105SW002_03	Spring Creek - source to mouth		6.12
Summary for 'HUC' = 17050105 (7 detail records)		**Sum**	*218.01*
HUC	*17050106*		
ID17050106SW001_02	Little Owyhee River - Idaho/Nevada border to mouth		77.29
ID17050106SW001_03	Little Owyhee River - Idaho/Nevada border to mouth		16.5
ID17050106SW002_02	Tent Creek- Idaho/Oregon border to mouth		33.62
ID17050106SW002_04	Tent Creek- Idaho/Oregon border to mouth		4.54
ID17050106SW002_03	Tent Creek- Idaho/Oregon border to mouth		7.54
Summary for 'HUC' = 17050106 (5 detail records)		**Sum**	*139.48*

Basin	Segment Name		Length
HUC	*17050107*		
ID17050107SW011_03	Cabin Creek - source to mouth		2.59
ID17050107SW013_03	Cherry Creek - source to Idaho/Oregon border		3.84
ID17050107SW013_02	Cherry Creek - source to Idaho/Oregon border		52.07
ID17050107SW007_02	Cottonwood Creek - 1st and 2nd order		22.34
ID17050107SW003_02	Field Creek - source to Idaho/Oregon border		11.12
ID17050107SW002_02	Oregon Lake Creek - source to Idaho/Oregon border		7.39
ID17050107SW001_07	Owyhee River - South Fork Owyhee River to Idaho/Oregon borde		9.18
ID17050107SW001_03	Owyhee River - South Fork Owyhee River to Idaho/Oregon borde		1.21
ID17050107SW001_02	Owyhee River - South Fork Owyhee River to Idaho/Oregon borde		34.8
ID17050107SW005_02	Pole Creek - source to Idaho/Oregon border		17.87
ID17050107SW014_02	Soldier Creek - source to Idaho/Oregon border		30.17
Summary for 'HUC' = 17050107 (11 detail records)		**Sum**	*192.57*
HUC	*17050108*		
ID17050108SW023_02	Baxter Creek - source to Idaho/Oregon border		6.94
ID17050108SW005_02	Big Boulder Creek - confluence of North and South Fork Bould		44.56
ID17050108SW005_03	Big Boulder Creek - confluence of North and South Fork Bould		4.57
ID17050108SW005_05	Big Boulder Creek - confluence of North and South Fork Bould		7.63
ID17050108SW009_02	Combination Creek - source to mouth		12.33
ID17050108SW016_02	Deer Creek - source to mouth		13.66
ID17050108SW020_02	Hooker Creek - source to Idaho/Oregon border		7.11
ID17050108SW012_02	Josephine Creek - source to mouth		45.44
ID17050108SW012_04	Josephine Creek - source to mouth		8.35
ID17050108SW012_03	Josephine Creek - source to mouth		4.79

Basin	Segment Name		Length
ID17050108SW002_03	Lone Tree Creek - source to mouth		6.08
ID17050108SW002_02	Lone Tree Creek - source to mouth		29.23
ID17050108SW008_02	Mammoth Creek - source to mouth		12.8
ID17050108SW007_02	North Fork Boulder Creek - source to mouth		30.12
ID17050108SW007_03	North Fork Boulder Creek - source to mouth		2.31
ID17050108SW007_05	North Fork Boulder Creek - source to mouth		3.86
ID17050108SW010_02	Rock Creek -Triangle Reservoir Dam to mouth		28.67
ID17050108SW010_05	Rock Creek -Triangle Reservoir Dam to mouth		5.16
ID17050108SW011_02	Rose Creek - source to mouth		13.61
ID17050108SW006_02	South Fork Boulder Creek - source to mouth		53.63
ID17050108SW006_04	South Fork Boulder Creek - source to mouth		3.11
ID17050108SW006_03	South Fork Boulder Creek - source to mouth		8.42
ID17050108SW019_02	Trout Creek - source to Idaho/Oregon border		33.78
ID17050108SW019_03	Trout Creek - source to Idaho/Oregon border		7.03
ID17050108SW003_03	Williams Creek - source to mouth		2.23
Summary for 'HUC' = 17050108 (25 detail records)		**Sum**	*395.42*
HUC	*17050111*		
ID17050111SW012_02	Bear River - 1st and 2nd order		39.29
ID17050111SW008_02	Black Warrior Creek - 1st and 2nd order		20.33
ID17050111SW014_04	Crooked River - 4th order		12.91
ID17050111SW011_02	Johnson Creek - source to mouth		27.57
ID17050111SW011_03	Johnson Creek - source to mouth		4.01
ID17050111SW007_02	Little Queens River - source to mouth		23.51
ID17050111SW007_03	Little Queens River - source to mouth		1.01

Basin	Segment Name		Length
ID17050111SW010_04	North Fork Boise River - 4th order		17.59
ID17050111SW006_03	Queens River - 3rd order		2.19
ID17050111SW004_04	Yuba River - 4th order		2.86
Summary for 'HUC' = 17050111 (10 detail records)		**Sum**	*151.27*
HUC	*17050112*		
ID17050112SW004_05	Boise River - 5th order		10.35
ID17050112SW007_02	Cottonwood Creek - source to Arrowrock Reservoir		27.7
ID17050112SW007_03	Cottonwood Creek - source to Arrowrock Reservoir		2.74
ID17050112SW016_03	Daggett Creek - source to mouth		3.77
ID17050112SW016_02	Daggett Creek - source to mouth		13.8
ID17050112SW008_02	Deer Creek - source to Lucky Peak Reservoir		5.52
ID17050112SW014_03	Granite Creek - 3rd order		3.23
ID17050112SW014_05	Granite Creek - 5th order		0.41
ID17050112SW017_02	Robie Creek - source to Lucky Peak Reservoir		17.79
ID17050112SW005_02	Sheep Creek - source to mouth		41.58
ID17050112SW005_04	Sheep Creek - source to mouth		1.32
ID17050112SW010_02	Smith Creek - source to mouth		9.86
ID17050112SW011_02	Thorn Creek - source to mouth		29.62
ID17050112SW011_03	Thorn Creek - source to mouth		4.96
Summary for 'HUC' = 17050112 (14 detail records)		**Sum**	*172.65*
HUC	*17050113*		
ID17050113SW016_02	Beaver Creek - source to mouth		9.54
ID17050113SW017_02	Boardman Creek - source to mouth		19.75
ID17050113SW031_04	Fall Creek - 4th order		4.99

Basin	Segment Name		Length
ID17050113SW027_05	Feather River - 5th order		0.13
ID17050113SW022_02	Johnson Creek - source to mouth		18.09
ID17050113SW006_02	Little Camas Creek - Little Camas Reservoir Dam to Anderson		3.77
ID17050113SW006_04	Little Camas Creek - Little Camas Reservoir Dam to Anderson		1.96
ID17050113SW008_02	Little Camas Creek - source to Little Camas Creek Reservoir		25.78
ID17050113SW008_03	Little Camas Creek - source to Little Camas Creek Reservoir		4.31
ID17050113SW018_04	Little Smoky Creek - source to mouth		9.61
ID17050113SW018_05	Little Smoky Creek - source to mouth		2.79
ID17050113SW010_02a	Moores Creek		45.19
ID17050113SW023_02	Ross Fork - source to mouth		31.43
ID17050113SW024_02	Skeleton Creek - source to mouth		27.19
ID17050113SW015_03	South Fork Boise River - 3rd order		0.64
ID17050113SW015_05	South Fork Boise River - 5th order		16.31
ID17050113SW028_03	Trinity Creek - source to mouth		0.8
ID17050113SW002b_02	Willow Creek - 1st and 2nd order		29.27
ID17050113SW025_03	Willow Creek - source to South Fork Boise River		5.62
ID17050113SW025_02	Willow Creek - source to South Fork Boise River		22.8
ID17050113SW009_02	Wood Creek - source to Anderson Ranch Reservoir		17.06
ID17050113SW009_03	Wood Creek - source to Anderson Ranch Reservoir		0.41
Summary for 'HUC' = 17050113 (22 detail records)		**Sum**	*297.43*
HUC	*17050114*		
ID17050114SW014_02	Big/Little Gulch Creek complex		36.18
ID17050114SW011a_02	Boise River - Diversion Dam to river mile 50 (T04N, R02W, Se		19.51
ID17050114SW011a_03	Boise River - Diversion Dam to river mile 50 (T04N, R02W, Se		0.02

Basin	Segment Name		Length
ID17050114SW011b_02	Boise River - Lucky Peak Dam to Diversion Dam		7.27
ID17050114SW005_02	Boise River - river mile 50 (T04N, R02W, Sec. 32) to Indian		15.88
ID17050114SW013_02	Dry Creek - source to mouth		69.15
ID17050114SW013_03	Dry Creek - source to mouth		10.09
ID17050114SW013_04	Dry Creek - source to mouth		4.9
ID17050114SW007_02	Fifteenmile Creek - Miller Canal to mouth		1.25
ID17050114SW007_04	Fifteenmile Creek - Miller Canal to mouth		3.73
ID17050114SW016_02	Langley/Graveyard Gulch complex		56.55
ID17050114SW017_02	Sand Hollow Creek - source to mouth		33.36
ID17050114SW008_02	Tenmile Creek - 1st and 2nd order		37.4
Summary for 'HUC' = 17050114 (13 detail records)		**Sum**	*295.29*
HUC	*17050115*		
ID17050115SW003_02	Ashlock Gulch - source to mouth		13.18
ID17050115SW003_03	Ashlock Gulch - source to mouth		1.94
ID17050115SW002_02	Homestead Gulch - source to mouth		20.26
ID17050115SW002_08	Homestead Gulch - source to mouth		0.47
ID17050115SW004_02	Hurd Gulch - source to mouth		23.39
ID17050115SW005_02	Sand Hollow - source to mouth		24.21
ID17050115SW001_06	Snake River - Boise River to Weiser River		1.25
ID17050115SW001_02	Snake River - Boise River to Weiser River		34.36
Summary for 'HUC' = 17050115 (8 detail records)		**Sum**	*119.05*
HUC	*17050120*		
ID17050120SW007_03	Baron Creek - source to mouth		2.64
ID17050120SW009_02	Canyon Creek - 1st and 2nd order		28.88

Basin	Segment Name		Length
ID17050120SW013_02	Clear Creek - source to mouth		64.26
ID17050120SW013_03	Clear Creek - source to mouth		17.06
ID17050120SW014_04	Deadwood River - Deadwood Reservoir Dam to mouth		23.03
ID17050120SW019_02	Deadwood River - source to Deadwood Reservoir		54.71
ID17050120SW011_02	Eightmile Creek - source to mouth		30.39
ID17050120SW012_02	Fivemile Creek - source to mouth		13.66
ID17050120SW002_03	Rock Creek - 3rd order		0.91
ID17050120SW005_02	South Fork Payette River - source to and including Trail Cre		59.84
ID17050120SW005_03	South Fork Payette River - source to and including Trail Cre		15.13
ID17050120SW004_02	Wapiti Creek - source to mouth		14.64
ID17050120SW010_03	Warm Spring Creek - source to mouth		12.96
ID17050120SW010_02	Warm Spring Creek - source to mouth		54.02
ID17050120SW016_03	Warm Springs Creek - source to mouth		1.23
ID17050120SW016_02	Warm Springs Creek - source to mouth		20.48
ID17050120SW015_03	Whitehawk Creek - source to mouth		3.18
Summary for 'HUC' = 17050120 (17 detail records)		**Sum**	*417.02*
HUC	*17050121*		
ID17050121SW009_02	Bull Creek - source to mouth		41.6
ID17050121SW003_02	Lightning Creek - 1st and 2nd order		23.17
ID17050121SW008_02	Peace Creek - source to mouth		13.61
ID17050121SW006_02	Rattlesnake Creek - source to mouth		9.81
Summary for 'HUC' = 17050121 (4 detail records)		**Sum**	*88.189*
HUC	*17050122*		
ID17050122SW009_02	Deer Creek - source to mouth		20.42

Basin	Segment Name	Length
ID17050122SW007_03	Hill Creek - source to mouth	3.1
ID17050122SW007_02	Hill Creek - source to mouth	25.34
ID17050122SW019_03	Indian Creek - source to mouth	3.32
ID17050122SW019_02	Indian Creek - source to mouth	19.37
ID17050122SW011_04	Little Squaw Creek - source to mouth	1.71
ID17050122SW011_02	Little Squaw Creek - source to mouth	54.22
ID17050122SW018_03	Little Willow Creek - Paddock Valley Reservoir Dam to mouth	5.85
ID17050122SW018_02	Little Willow Creek - Paddock Valley Reservoir Dam to mouth	86.98
ID17050122SW018_04	Little Willow Creek - Paddock Valley Reservoir Dam to mouth	15.48
ID17050122SW021_03	Little Willow Creek - source to Paddock Valley Reservoir	4.12
ID17050122SW021_02	Little Willow Creek - source to Paddock Valley Reservoir	28.25
ID17050122SW001_02	Payette River - Black Canyon Reservoir Dam to mouth	192.47
ID17050122SW003_03	Payette River - confluence of the North Fork and South Fork	2.09
ID17050122SW003_02	Payette River - confluence of the North Fork and South Fork	119.16
ID17050122SW013_03	Pine Creek - 3rd order	2.65
ID17050122SW006_03	Porter Creek - source to mouth	4.72
ID17050122SW006_02	Porter Creek - source to mouth	19.67
ID17050122SW016_02	Sand Hollow - source to mouth	23.3
ID17050122SW016_03	Sand Hollow - source to mouth	2.73
ID17050122SW004_02	Shafer Creek - source to mouth	76.5
ID17050122SW008_02	South Fork Payette River - Middle Fork Payette River to mout	12.22
ID17050122SW008_05	South Fork Payette River - Middle Fork Payette River to mout	7.59
ID17050122SW010_04	Squaw Creek - 4th order	24.28
ID17050122SW010_05	Squaw Creek - 5th order	24.23

Basin	Segment Name		Length
Summary for 'HUC' = 17050122 (25 detail records)		**Sum**	*779.77*
HUC	*17050123*		
ID17050123SW008_02	Gold Fork - 1st and 2nd order		64.32
ID17050123SW012_02	Lake Fork - Little Payette Lake to Cascade Reservoir		12.13
ID17050123SW014_02	Lake Fork - source to Little Payette Lake		63.53
ID17050123SW016_02	North Fork Payette River - Payette Lake to Cascade Reservoir		39.32
Summary for 'HUC' = 17050123 (4 detail records)		**Sum**	*179.29*
HUC	*17050124*		
ID17050124SW011_02	Anderson Creek - source to mouth		16.22
ID17050124SW013_02	Bacon Creek - source to mouth		7.96
ID17050124SW009_02	Ben Ross Creek - source to mouth		9.29
ID17050124SW015_02	Cottonwood Creek - source to mouth		18.18
ID17050124SW024_02	Cow Creek - source to mouth		14.46
ID17050124SW003_03	Crane Creek - Crane Creek Reservoir Dam to mouth		2.38
ID17050124SW003_02	Crane Creek - Crane Creek Reservoir Dam to mouth		31.35
ID17050124SW012_02	Grays Creek - source to mouth		45.71
ID17050124SW012_03	Grays Creek - source to mouth		3.76
ID17050124SW021_03	Hornet Creek - source to mouth		11.03
ID17050124SW021_04	Hornet Creek - source to mouth		7.88
ID17050124SW028_02	Keithly Creek - source to mouth		61.87
ID17050124SW028_04	Keithly Creek - source to mouth		1.82
ID17050124SW028_03	Keithly Creek - source to mouth		4.99
ID17050124SW018_02	Lost Creek - Lost Valley Reservoir Dam to mouth		14.94
ID17050124SW030_02	Mann Creek - 1st and 2nd order		24.88

Basin	Segment Name		Length
ID17050124SW032_02	Mann Creek - source to Mann Creek Reservoir		57.21
ID17050124SW010_02	Mill Creek - source to mouth		13.97
ID17050124SW033_03	Monroe Creek - source to mouth		15.4
ID17050124SW033_02	Monroe Creek - source to mouth		58.73
ID17050124SW027_04	Pine Creek - 4th order		3.77
ID17050124SW025_03	Rush Creek - source to mouth		6.29
ID17050124SW025_02	Rush Creek - source to mouth		36.09
ID17050124SW029_02	Sage Creek - source to mouth		40.34
ID17050124SW029_03	Sage Creek - source to mouth		6.05
ID17050124SW026_02	Spring Creek - source to mouth		26.53
ID17050124SW026_03	Spring Creek - source to mouth		1.5
ID17050124SW001_02	Weiser River - Keithly Creek to mouth		115.45
Summary for 'HUC' = 17050124 (28 detail records)		**Sum**	*658.04*

HUC	17050201		
ID17050201SW016_03	Bear Creek - 3rd order		4.74
ID17050201SW014_03	Brownlee Creek - 3rd order		4.33
ID17050201SW017_03	Indian Creek - source to mouth		9.3
ID17050201SW010_02	Rock Creek - 1st and 2nd order		63.01
ID17050201SW010_03	Rock Creek - 3rd order		7.31
ID17050201SW002_02a	Salt Creek		4.37
ID17050201SW004_02	Snake River - Weiser River to Scott Creek		0.22
ID17050201SW002_02	Tributaries to Snake River - 1st and 2nd order		16.35
ID17050201SW011_02	Wolf Creek - 1st and 2nd order		10.57
Summary for 'HUC' = 17050201 (9 detail records)		**Sum**	*120.19*

Basin	Segment Name	Length
Summary for 'Basin' = Southwest (343 detail records)	**Sum**	*8583.3*

Upper Snake

HUC 17040104

ID17040104SK011_05	Bear Creek - North Fork Bear Creek to Palisades Reservoir	0.03
ID17040104SK011_04	Bear Creek - North Fork Bear Creek to Palisades Reservoir	5.32
ID17040104SK011_03	Bear Creek - North Fork Bear Creek to Palisades Reservoir	2.26
ID17040104SK025_04	Big Elk Creek - Idaho/Wyoming border to Palisades Reservoir	6.32
ID17040104SK025_02	Big Elk Creek - Idaho/Wyoming border to Palisades Reservoir	22.74
ID17040104SK030_02	Black Canyon Creek - source to mouth	7.08
ID17040104SK023_02	Burns Creek - source to Idaho/Wyoming border	8.09
ID17040104SK031_02	Burnt Canyon Creek - source to mouth	21.11
ID17040104SK031_03	Burnt Canyon Creek - source to mouth	2.97
ID17040104SK018_03	Clear Creek - source to mouth	3.94
ID17040104SK018_02	Clear Creek - source to mouth	28.93
ID17040104SK005_02	Fall Creek - South Fork Fall Creek to mouth	20.53
ID17040104SK021_03	Fish Creek - source to mouth	2.57
ID17040104SK021_02	Fish Creek - source to mouth	16.84
ID17040104SK024_02	Indian Creek - Idaho/Wyoming border to Palisades Reservoir	6.59
ID17040104SK009_02	Indian Creek - source to mouth	9.82
ID17040104SK020_03	Iowa Creek - source to mouth	2.32
ID17040104SK020_02	Iowa Creek - source to mouth	18.74
ID17040104SK016_02	McCoy Creek - Clear Creek to Iowa Creek	20.68
ID17040104SK016_04	McCoy Creek - Clear Creek to Iowa Creek	2.8
ID17040104SK014_04	McCoy Creek - Fish Creek to Palisades Reservoir	4.99

Basin	Segment Name		Length
ID17040104SK014_03	McCoy Creek - Fish Creek to Palisades Reservoir		1.54
ID17040104SK014_02	McCoy Creek - Fish Creek to Palisades Reservoir		30.36
ID17040104SK015_04	McCoy Creek - Iowa Creek to Fish Creek		4.75
ID17040104SK015_02	McCoy Creek - Iowa Creek to Fish Creek		20.63
ID17040104SK019_03	McCoy Creek - source to Clear Creek		3.66
ID17040104SK019_02	McCoy Creek - source to Clear Creek		16.39
ID17040104SK012_02	North Fork Bear Creek - source to mouth		17.28
ID17040104SK027_02	Palisades Creek - source to mouth		109.86
ID17040104SK027_03	Palisades Creek - source to mouth		16.44
ID17040104SK029_02	Pine Creek - source to mouth		82.8
ID17040104SK029_03	Pine Creek - source to mouth		16.17
ID17040104SK004_06	Pritchard Creek - source to mouth		0.24
ID17040104SK004_02	Pritchard Creek - source to mouth		16.36
ID17040104SK028_03	Rainey Creek - source to mouth		4.46
ID17040104SK028_02	Rainey Creek - source to mouth		89.49
ID17040104SK008_03	Snake River - Palisades Reservoir Dam to Fall Creek		0.06
ID17040104SK022_02	Trout Creek - source to mouth		8.33
ID17040104SK017_02	Wolverine Creek - source to mouth		15.52
ID17040104SK017_03	Wolverine Creek - source to mouth		1.49
Summary for 'HUC' = 17040104 (40 detail records)		**Sum**	*670.50*

HUC	17040105		
ID17040105SK008_02d	Crow Creek		6.78
ID17040105SK008_02	Crow Creek - source to Idaho/Wyoming border		65.03
ID17040105SK010_02	Deer Creek - source to mouth		2.49

Basin	Segment Name		Length
ID17040105SK007_02b	Draney Creek		3.41
ID17040105SK003_02j	Haderlie Creek		8.65
ID17040105SK002_04	Jackknife Creek - source to Idaho/Wyoming border		4.73
ID17040105SK002_02	Jackknife Creek - source to Idaho/Wyoming border		28.22
ID17040105SK011_02a	Rock Creek		2.96
ID17040105SK011_02	Rock Creek - source to mouth		17.46
ID17040105SK009_02c	Sage Creek		1.81
ID17040105SK012_02b	Spring Creek		2.96
ID17040105SK012_02	Spring Creek - source to mouth		3.69
ID17040105SK002_02d	Squaw Creek		16.19
ID17040105SK003_02	Tincup Creek - source to Idaho/Wyoming border		58.46
ID17040105SK005_05	Tributaries of Salt River - source to Idaho/Wyoming border (		0.29
ID17040105SK005_02	Tributaries of Salt River - source to Idaho/Wyoming border (		25
ID17040105SK001_02	Tributaries of Salt River - source to Idaho/Wyoming border (		9.5
ID17040105SK007_02	Tygee Creek - source to mouth		16.23
ID17040105SK007_02a	Webster Creek		2.48
Summary for 'HUC' = 17040105 (19 detail records)		**Sum**	*276.33*

HUC	17040201		
ID17040201SK007_02	Crow Creek - source to Willow Creek		37.36
ID17040201SK006_05	Crow Creek - Willow Creek to mouth		28.29
ID17040201SK004_06	Dry Bed Creek - source to mouth		41.7
ID17040201SK004_02	Dry Bed Creek - source to mouth		14.3
ID17040201SK017_02	Kettle Butte complex		101.81
ID17040201SK014_02	Lyons Creek - source to mouth		57.95

Basin	Segment Name		Length
ID17040201SK014_03	Lyons Creek - source to mouth		5.23
ID17040201SK005_03	Sand Creek complex		12.27
ID17040201SK005_04	Sand Creek complex		3.8
ID17040201SK005_02	Sand Creek complex		118.05
ID17040201SK009_02	Snake River - Annis Slough to Dry Bed Creek		21.38
ID17040201SK009_06	Snake River - Annis Slough to Dry Bed Creek		4.32
ID17040201SK009_07	Snake River - Annis Slough to Dry Bed Creek		24.95
ID17040201SK001_02	Snake River - Dry Bed Creek to river mile 791 (T01N, R37E, S		30.6
ID17040201SK001_04	Snake River - Dry Bed Creek to river mile 791 (T01N, R37E, S		22.07
ID17040201SK012_02	Snake River - Dry Bed to Annis Slough		53.46
ID17040201SK012_06	Snake River - Dry Bed to Annis Slough		62.41
ID17040201SK012_07	Snake River - Dry Bed to Annis Slough		1.5
ID17040201SK002_02	South Fork Willow Creek - source to mouth		7.34
ID17040201SK010_02	Spring Creek - canal (T05N, R38E) to mouth		5.49
ID17040201SK011_02	Spring Creek - source to canal (T05N, R38E)		2.83
ID17040201SK015_03	Unnamed Tributary - source to mouth (T8N, R38E)		7.36
ID17040201SK015_02	Unnamed Tributary - source to mouth (T8N, R38E)		14.42
Summary for 'HUC' = 17040201 (23 detail records)		**Sum**	*678.89*

HUC *17040202*

ID17040202SK023_02	Big Springs - source to mouth		1.31
ID17040202SK042_02	Blue Creek - source to mouth		10.65
ID17040202SK016_03	Buffalo River - Elk Creek to mouth		2.33
ID17040202SK018_02	Buffalo River - source to Elk Creek		31.93
ID17040202SK039_02	Crooked Creek - source to mouth		17.76

Basin	Segment Name	Length
ID17040202SK039_04	Crooked Creek - source to mouth	12.44
ID17040202SK050_02	Dry Creek - source to Sheridan Reservoir	16.37
ID17040202SK019_02	Elk Creek - source to mouth	7.49
ID17040202SK021_05	Henrys Fork - Confluence of Big Springs and Henrys Lake Outl	7.89
ID17040202SK015_02	Henrys Fork - Island Park Reservoir Dam to Thurman Creek	16.38
ID17040202SK015_05	Henrys Fork - Island Park Reservoir Dam to Thurman Creek	9.66
ID17040202SK014_02	Henrys Fork - Thurman Creek to Warm River	36.43
ID17040202SK001_06	Henrys Fork - Warm River to Ashton Reservoir Dam	10.79
ID17040202SK001_02	Henrys Fork - Warm River to Ashton Reservoir Dam	106.13
ID17040202SK001_03	Henrys Fork - Warm River to Ashton Reservoir Dam	1.15
ID17040202SK025_03	Henrys Lake Outlet - Henrys Lake Dam to mouth	2.09
ID17040202SK038_02	Hope Creek - source to mouth	4.72
ID17040202SK026_02	Meadows Creek - source to mouth	5.28
ID17040202SK022_02	Moose Creek - source to confluence with Henrys Fork	18.96
ID17040202SK003_02	Moose Creek - source to confluence with Warm River	10.88
ID17040202SK047_03	Myers Creek - source to mouth	3.76
ID17040202SK004_03	Partridge Creek - source to mouth	6.24
ID17040202SK004_02	Partridge Creek - source to mouth	45.88
ID17040202SK052_02	Rattlesnake Creek - source to mouth	14.34
ID17040202SK027_02	Reas Pass Creek - source to sink	17.25
ID17040202SK011_02	Robinson Creek - Idaho/Wyoming border and sources west of bo	42.95
ID17040202SK006_04	Robinson Creek - Rock Creek to mouth	4.41
ID17040202SK006_02	Robinson Creek - Rock Creek to mouth	3.54
ID17040202SK037_02	Rock Creek - source to mouth	10.41

Basin	Segment Name	Length
ID17040202SK008_02	Rock Creek - Wyoming Creek to mouth	10.11
ID17040202SK043_03	Sheep Creek - source to mouth	1.47
ID17040202SK043_02	Sheep Creek - source to mouth	24.1
ID17040202SK045_02	Sheridan Creek - Kilgore Road (T13N, R41E, Sec. 07) to mouth	34.47
ID17040202SK048_02	Sheridan Creek - source to Kilgore Road (T13N, R41E, Sec. 07	17.71
ID17040202SK048_03	Sheridan Creek - source to Kilgore Road (T13N, R41E, Sec. 07	3.88
ID17040202SK024_04	Thirsty Creek - Idaho/ Wyoming border to mouth	0.09
ID17040202SK051_02	Thurman Creek - source to mouth	19.91
ID17040202SK017_02	Toms Creek - source to mouth	11.74
ID17040202SK002_02	Warm River - Warm River Spring to mouth	15.57
ID17040202SK046_02	Willow Creek - source to mouth	18.74
ID17040202SK046_03	Willow Creek - source to mouth	2.64
ID17040202SK009_02	Wyoming Creek - Idaho/Wyoming border to mouth	5.16
Summary for 'HUC' = 17040202 (42 detail records)	**Sum**	*645.00*

HUC	17040203	
ID17040203SK010_03	Boone Creek - Idaho/Wyoming border to mouth	4.87
ID17040203SK011_02	Boundary Creek - Idaho/Wyoming border (T12N, R46E, Sec. 06)	16.72
ID17040203SK011_03	Boundary Creek - Idaho/Wyoming border (T12N, R46E, Sec. 06)	4.06
ID17040203SK011_04	Boundary Creek - Idaho/Wyoming border (T12N, R46E, Sec. 06)	5.66
ID17040203SK006_02	Conant Creek - Idaho/Wyoming border to Squirrel Creek	8.63
ID17040203SK005_02	Conant Creek - Squirrel Creek to mouth	6.12
ID17040203SK008_02	Falls River - Boone Creek to Conant Creek	19.67
ID17040203SK004_02	Falls River - Conant Creek to mouth	38.56
ID17040203SK004_03	Falls River - Conant Creek to mouth	10.98

Basin	Segment Name		Length
ID17040203SK009_04	Falls River - Idaho/Wyoming border to Boone Creek		17.22
ID17040203SK009_02	Falls River - Idaho/Wyoming border to Boone Creek		17.69
ID17040203SK002_06	Henry's Fork - North Fork Teton River to South Fork Teton Ri		36.83
ID17040203SK002_02	Henry's Fork - North Fork Teton River to South Fork Teton Ri		15.65
ID17040203SK012_02	Henrys Fork - Ashton Reservoir Dam to Falls River		60.56
ID17040203SK012_06	Henrys Fork - Ashton Reservoir Dam to Falls River		6.51
ID17040203SK003_05	Henrys Fork - Falls River to North Fork Teton River		9.02
ID17040203SK003_02	Henrys Fork - Falls River to North Fork Teton River		19.93
ID17040203SK001_06	Henrys Fork - South Fork Teton River to hydrologic unit boun		26.62
ID17040203SK001_02	Henrys Fork - South Fork Teton River to hydrologic unit boun		6.76
ID17040203SK014_03	Pine Creek - source to mouth		3.39
ID17040203SK014_02	Pine Creek - source to mouth		21.3
ID17040203SK013_04	Sand Creek - Pine Creek to mouth		10.48
ID17040203SK015_02	Sand Creek - source to Pine Creek		79.16
ID17040203SK015_03	Sand Creek - source to Pine Creek		5.64
ID17040203SK016_06	Warm Slough - source to mouth		8.59
Summary for 'HUC' = 17040203 (25 detail records)		**Sum**	*460.62*

HUC *17040204*

ID17040204SK058_02	Badger Creek - diversion (NW ¼, SW ¼, Sec. 9, T6N, R45E) to		25.33
ID17040204SK059_02	Badger Creek - source to diversion (NW ¼, SW ¼, Sec. 9, T6N,		0.88
ID17040204SK057_02	Badger Creek - spring (NW ¼, SW ¼, Sec. 26 T7N, R44E) to mou		5.85
ID17040204SK065_02	Bitch Creek - Idaho/Wyoming border to Swanner Creek		30.19
ID17040204SK063_02	Bitch Creek - Swanner Creek to mouth		15.25
ID17040204SK009_02	Canyon Creek - source to Warm Creek		57.43

Basin	Segment Name	Length
ID17040204SK009_04	Canyon Creek - source to Warm Creek	0.36
ID17040204SK049_02	Driggs Springs spring creek complex - located between Teton	4.94
ID17040204SK051_03	Dry Creek - Idaho/Wyoming border to sinks (SE ¼, NE ¼, S12,	7.66
ID17040204SK051_02	Dry Creek - Idaho/Wyoming border to sinks (SE ¼, NE ¼, S12,	2.95
ID17040204SK031_02	Grove Creek - source to sink	2.56
ID17040204SK021_02	Horseshoe Creek - pipeline diversion (SE ¼, NW ¼, Sec. 27, T	2.48
ID17040204SK024_02	Mahogany Creek - pipeline diversion (NE ¼, Sec. 27, T4N, R44	8.61
ID17040204SK013_03	Milk Creek - source to mouth	7.07
ID17040204SK005_02	Moody Creek - confluence of North and South Fork Moody Creek	106.42
ID17040204SK062_03	North Fork Badger Creek - Idaho/Wyoming border to mouth	2.09
ID17040204SK062_02	North Fork Badger Creek - Idaho/Wyoming border to mouth	9.36
ID17040204SK007_03	North Fork Moody Creek - source to mouth	1.25
ID17040204SK002_02	North Fork Teton River - Teton River Forks to Henrys Fork	13.53
ID17040204SK029_02	Patterson Creek - pump diversion (SE ¼, Sec. 31, T4N, R44E)	1.55
ID17040204SK060_02	South Fork Badger Creek - diversion (NE ¼, NE ¼, Sec. 12, T6	2.08
ID17040204SK061_02	South Fork Badger Creek - Idaho/Wyoming border to diversion	3.08
ID17040204SK006_03	South Fork Moody Creek - source to mouth	0.74
ID17040204SK001_03	South Fork Teton River - Teton River Forks to Henrys Fork	4.77
ID17040204SK001_02	South Fork Teton River - Teton River Forks to Henrys Fork	41.04
ID17040204SK053_02	South Leigh Creek - Idaho/Wyoming border to SE ¼, NE ¼, Sec.	3.42
ID17040204SK054_02	Spring Creek - North Leigh Creek to mouth	4.06
ID17040204SK064_02	Swanner Creek - Idaho/Wyoming border to mouth	30.83
ID17040204SK064_03	Swanner Creek - Idaho/Wyoming border to mouth	3.8
ID17040204SK047_03	Teton Creek - Highway 33 bridge to mouth, including spring c	8.27

Basin	Segment Name		Length
ID17040204SK017_03	Teton River - Cache Bridge (NW ¼, NE ¼, Sec. 1, T5N, R44E) t		5.37
ID17040204SK017_02	Teton River - Cache Bridge (NW ¼, NE ¼, Sec. 1, T5N, R44E) t		31.91
ID17040204SK004_02	Teton River - Canyon Creek to Teton Dam		10.27
ID17040204SK004_05	Teton River - Canyon Creek to Teton Dam		5.52
ID17040204SK028_02	Teton River - confluence of Warm Creek and Drake Creek to Tr		5.57
ID17040204SK014_05	Teton River - Felt Dam outlet to Milk Creek		7.64
ID17040204SK014_03	Teton River - Felt Dam outlet to Milk Creek		0.03
ID17040204SK014_02	Teton River - Felt Dam outlet to Milk Creek		22.42
ID17040204SK015_02	Teton River - Felt Dam pool		7.22
ID17040204SK016_02	Teton River - Highway 33 bridge to Felt Dam pool		12.11
ID17040204SK012_02	Teton River - Milk Creek to Canyon Creek		17.48
ID17040204SK012_05	Teton River - Milk Creek to Canyon Creek		5.03
ID17040204SK020_03	Teton River - Teton Creek to Cache Bridge (NW ¼, NE ¼, Sec.		2.75
ID17040204SK020_02	Teton River - Teton Creek to Cache Bridge (NW ¼, NE ¼, Sec.		34.18
ID17040204SK003_02	Teton River - Teton Dam to Teton River Forks		14.79
ID17040204SK035_03	Trail Creek - Trail Creek pipeline diversion (SW ¼, SE ¼, Se		7.87
ID17040204SK034_03	Warm Creek - source to mouth		1.95
ID17040204SK050_02	Woods Creek - source to mouth, including spring creek tribu		5.41
Summary for 'HUC' = 17040204 (48 detail records)		**Sum**	*605.36*

HUC *17040205*

ID17040205SK003_02	Blacktail Creek - source to Ririe Reservoir		23.55
ID17040205SK003_03	Blacktail Creek - source to Ririe Reservoir		2.96
ID17040205SK030_03	Bulls Fork - source to mouth		0.78
ID17040205SK023_03	Gravel Creek - source to mouth		6.9

Basin	Segment Name		Length
ID17040205SK019_02	Grays Lake outlet - Brockman Creek to Homer Creek		22.22
ID17040205SK016_02	Grays Lake outlet - Hell Creek to mouth		11.31
ID17040205SK017_02	Grays Lake outlet - Homer Creek to Hell Creek		11.62
ID17040205SK022_02	Little Valley Creek - source to mouth		11.83
ID17040205SK007_02	Squaw Creek - source to mouth		10.76
ID17040205SK005_03	Willow Creek - Birch Creek to Bulls Fork		2.9
ID17040205SK004_02	Willow Creek - Bulls Fork to Ririe Reservoir		5.67
ID17040205SK001_02	Willow Creek - Ririe Reservoir Dam to Eagle Rock Canal		15.3
Summary for 'HUC' = 17040205 (12 detail records)		**Sum**	*125.79*
HUC	*17040206*		
ID17040206SK021_02	Big Jimmy Creek - source to American Falls Reservoir		8.3
ID17040206SK004_02	Blind Spring - source to mouth		26.63
ID17040206SK019_02	Clear Creek - source to American Falls Reservoir		11.9
ID17040206SK011_02	Clifton Creek - source to mouth		14.92
ID17040206SK016_02	Indian Creek - source to mouth		8.06
ID17040206SK023_02	Jeff Cabin Creek - source to mouth		8.06
ID17040206SK025_02	Little Hole Draw - source to American Falls Reservoir		51.43
ID17040206SK013_03	Michaud Creek		1.13
ID17040206SK006_03	Moonshine Creek - source to mouth		1.16
ID17040206SK006_04	Moonshine Creek - source to mouth		5.02
ID17040206SK026_02	Pleasant Valley - source to American Falls Reservoir		76.23
ID17040206SK026_03	Pleasant Valley - source to American Falls Reservoir		12.18
ID17040206SK014_02	Ross Fork - Gibson Canal to American Falls Reservoir		1.18
ID17040206SK014_04	Ross Fork - Gibson Canal to American Falls Reservoir		7.92

Basin	Segment Name		Length
ID17040206SK015_02	Ross Fork - Indian Creek to Gibson Canal		41.05
ID17040206SK015_04	Ross Fork - Indian Creek to Gibson Canal		8.25
ID17040206SK018_02	Ross Fork - source to South Fork Ross Fork		111.71
ID17040206SK018_04	Ross Fork - source to South Fork Ross Fork		3.83
ID17040206SK018_03	Ross Fork - source to South Fork Ross Fork		10.88
ID17040206SK007_03	Sawmill Creek - source to mouth		3.61
ID17040206SK007_02	Sawmill Creek - source to mouth		18.06
ID17040206SK022_03	Snake River - river mile 791 (T01N, R37E, Sec. 10) to Americ		2.3
ID17040206SK017_02	South Fork Ross Fork - source to mouth		47.42
ID17040206SK017_03	South Fork Ross Fork - source to mouth		7.61
ID17040206SK020_02	Spring Creek - source to American Falls Reservoir		19.44
ID17040206SK020_03	Spring Creek - source to American Falls Reservoir		0.08
ID17040206SK003_02	Starlight Creek - source to mouth		17.44
ID17040206SK005_03	Sunbeam Creek		2.81
ID17040206SK000_03	Unclassified Waters in CU 17040206		42
ID17040206SK000_02	Unclassified Waters in CU 17040206		846.11
Summary for 'HUC' = 17040206 (30 detail records)		**Sum**	*1416.7*

HUC *17040207*

ID17040207SK023_02	Angus Creek - source to mouth		11.34
ID17040207SK002_04	Blackfoot River - Blackfoot Reservoir Dam to Fort Hall Main		5.97
ID17040207SK002_02	Blackfoot River - Blackfoot Reservoir Dam to Fort Hall Main		248.28
ID17040207SK002_03	Blackfoot River - Blackfoot Reservoir Dam to Fort Hall Main		1.76
ID17040207SK001_02	Blackfoot River - Fort Hall Main Canal diversion to mouth		12.9
ID17040207SK001_05	Blackfoot River - Fort Hall Main Canal diversion to mouth		14.85

Basin	Segment Name		Length
ID17040207SK029_02	Cedar Creek - source to mouth		21.55
ID17040207SK021_02	Chippy Creek - source to mouth		17.29
ID17040207SK016_02	Diamond Creek - source to mouth		41.77
ID17040207SK003_02	Garden Creek - source to mouth		11.53
ID17040207SK005_02	Grave Creek - source to mouth		28.02
ID17040207SK016_02i	lower Kendall Creek		0.77
ID17040207SK021_02b	lower Olsen Creek		0.94
ID17040207SK017_02b	lower Timothy Creek		1.48
ID17040207SK027_02b	Poison Creek		12.11
ID17040207SK017_02	Timothy Creek - source to mouth		5.34
ID17040207SK002_02c	Trail Creek		5.15
ID17040207SK011_02	Trail Creek - source to mouth		17.88
ID17040207SK000_02	Unclassified Waters in CU 17040207		0.84
ID17040207SK004_03	Wood Creek - source to mouth		3.74
ID17040207SK004_02	Wood Creek - source to mouth		17.55
ID17040207SK024_02	Wooley Valley - source to mouth		21.39
Summary for 'HUC' = 17040207 (22 detail records)		**Sum**	*502.44*

HUC	17040208		
ID17040208SK008_02	Bell Marsh Creek - source to mouth		1.9
ID17040208SK015_02	Birch Creek - source to mouth		13.07
ID17040208SK017_02	Dempsey Creek - source to mouth		1.38
ID17040208SK004_03	East Fork Mink Creek		0.65
ID17040208SK010_02	Garden Creek - source to mouth		19.44
ID17040208SK003_02	lower Gibson Jack Creek		0.7

Basin	Segment Name		Length
ID17040208SK004_03a	Mink Creek		2.82
ID17040208SK004_02	Mink Creek - source to mouth		29
ID17040208SK026_02	North Fork Pocatello Creek - source to mouth		6.35
ID17040208SK022_02	Pebble Creek - source to mouth		1.82
ID17040208SK024_02	Pocatello Creek - confluence of North and South Fork Poca te		3.71
ID17040208SK021_02	Toponce Creek - source to mouth		2.66
ID17040208SK001_02b	Trail Creek		5.6
ID17040208SK021_02e	upper Toponce Creek		5.83
Summary for 'HUC' = 17040208 (14 detail records)		**Sum**	*94.930*
HUC	*17040209*		
ID17040209SK010_02T			0.01
ID17040209SK007_02	Fall Creek - source to mouth		17.46
ID17040209SK007_03	Fall Creek - source to mouth		0.66
ID17040209SK008_02	Rock Creek - confluence of South and East Fork Rock Creeks t		76.02
ID17040209SK011_03	Snake River - American Falls Reservoir Dam to Rock Creek		2.82
ID17040209SK001_03	Snake River - Heyburn/Burley Bridge (T10S, R23E, Sec.17) to		0.3
ID17040209SK001_02	Snake River - Heyburn/Burley Bridge (T10S, R23E, Sec.17) to		6.39
ID17040209SK002_02	Snake River - Minidoka Dam to Heyburn/Burley Bridge (T10S, R		30.93
ID17040209SK006_03	Snake River - Rock Creek to Raft River		7.96
ID17040209SK006_02	Snake River - Rock Creek to Raft River		73.92
ID17040209SK000_03	Unclassified Waters in CU 17040209		19.54
Summary for 'HUC' = 17040209 (11 detail records)		**Sum**	*236.00*
HUC	*17040210*		
ID17040210SK005_03	Cassia Creek - Clyde Creek to Conner Creek		3.39

Basin	Segment Name	Length
ID17040210SK005_02	Cassia Creek - Clyde Creek to Conner Creek	72.11
ID17040210SK003_02	Cassia Creek - Conner Creek to mouth	74.39
ID17040210SK007_04	Cassia Creek - source to Clyde Creek	5.51
ID17040210SK016_02	Clear Creek - Idaho/Utah border to mouth	328.13
ID17040210SK016_03	Clear Creek - Idaho/Utah border to mouth	25.02
ID17040210SK016_04	Clear Creek - Idaho/Utah border to mouth	12.37
ID17040210SK006_03	Clyde Creek - source to mouth	4.32
ID17040210SK002_02A	Coe Creek	53.85
ID17040210SK004_03	Conner Creek - source to mouth	2.45
ID17040210SK015_03	Cottonwood Creek - source to Idaho/Utah border	1.06
ID17040210SK015_02	Cottonwood Creek - source to Idaho/Utah border	26.33
ID17040210SK009_03	Cottonwood Creek - source to mouth	0.17
ID17040210SK009_02	Cottonwood Creek - source to mouth	23.54
ID17040210SK012_03	Edwards Creek - source to mouth	7.36
ID17040210SK023_04	Heglar Canyon Creek - source to mouth	8.45
ID17040210SK023_03	Heglar Canyon Creek - source to mouth	10.36
ID17040210SK023_02	Heglar Canyon Creek - source to mouth	74.02
ID17040210SK014_02	Junction Creek - source to Idaho/Utah border	24.48
ID17040210SK017_02	Kelsaw Canyon Creek - source to mouth	15.76
ID17040210SK018_03	Meadow Creek - source to mouth	21.29
ID17040210SK018_02	Meadow Creek - source to mouth	111.48
ID17040210SK002_03	Raft River - Cassia Creek to Heglar Canyon Creek	14.95
ID17040210SK008_02	Raft River - Cottonwood Creek to Cassia Creek	135.42
ID17040210SK008_03	Raft River - Cottonwood Creek to Cassia Creek	0.33

Basin	Segment Name		Length
ID17040210SK001_03	Raft River - Heglar Canyon Creek to mouth		5.77
ID17040210SK001_02	Raft River - Heglar Canyon Creek to mouth		68.38
ID17040210SK013_03	Raft River - Idaho/Utah border to Edwards Creek		16.54
ID17040210SK013_02	Raft River - Idaho/Utah border to Edwards Creek		61.22
ID17040210SK010_03	Raft River - Unnamed Tributary (T15S, R26E, Sec. 24) to Cott		10.3
ID17040210SK010_02	Raft River - Unnamed Tributary (T15S, R26E, Sec. 24) to Cott		167.83
ID17040210SK021_02	Sublett Creek - source to Sublett Reservoir		38.44
ID17040210SK019_04	Sublett Creek - Sublett Reservoir Dam to mouth		0.07
Summary for 'HUC' = 17040210 (33 detail records)		**Sum**	*1425.0*
HUC	*17040211*		
ID17040211SK014_03	Land/Willow/Smith Creek complex		14.04
ID17040211SK014_02	Land/Willow/Smith Creek complex		109.14
ID17040211SK002_03	Lower Goose Creek		1.62
ID17040211SK002_02	Lower Goose Creek		33.29
ID17040211SK003_02	Trapper Creek - from and including Squaw Creek to Lower Goos		28.09
ID17040211SK007_03	Trout Creek - source to Idaho/Utah border		1.97
ID17040211SK000_03	Unclassified Waters in CU 17040211		11.51
ID17040211SK000_02	Unclassified Waters in CU 17040211		119.3
Summary for 'HUC' = 17040211 (8 detail records)		**Sum**	*318.96*
HUC	*17040212*		
ID17040212SK029_02	Banbury Springs		0.56
ID17040212SK032_02	Bickel Springs		1.77
ID17040212SK025_02	Big Cottonwood Creek - source to mouth		11.74
ID17040212SK002_02	Big Pilgrim Gulch - source to mouth		30.74

Basin	Segment Name	Length
ID17040212SK030_02	Box Canyon Creek - source to mouth	2.11
ID17040212SK003_03	Cassia Gulch - source to mouth	0.48
ID17040212SK003_02	Cassia Gulch - source to mouth	22.06
ID17040212SK038_03	Catchall Creek - source to mouth	1.3
ID17040212SK034_02	Clover Creek - Pioneer Reservoir Dam to mouth	42.61
ID17040212SK036_03	Clover Creek - source to Pioneer Reservoir	0.58
ID17040212SK014_03	Cottonwood Creek - source to mouth	4.23
ID17040212SK037_02	Cottonwood Creek - source to mouth	20.75
ID17040212SK037_03	Cottonwood Creek - source to mouth	0.71
ID17040212SK009_02	Deep Creek - source to High Line Canal	13.29
ID17040212SK039_02	Deer Creek - source to mouth	19.07
ID17040212SK022_05	Dry Creek - source to mouth	0.09
ID17040212SK041_02	Dry Creek - source to mouth	48.64
ID17040212SK041_03	Dry Creek - source to mouth	12.02
ID17040212SK006_02	Riley Creek - source to mouth	4.16
ID17040212SK016_02	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R	23.62
ID17040212SK016_03	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R	0.36
ID17040212SK001_02	Snake River - Lower Salmon Falls to Clover Creek	22.11
ID17040212SK007_03	Snake River - Rock Creek to Box Canyon Creek	0.05
ID17040212SK019_02	Snake River - Twin Falls to Rock Creek	0.92
ID17040212SK004_02	Tuana Gulch - source to mouth	72.89
ID17040212SK000_03	Unclassified Waters in CU 17040212	15.85
Summary for 'HUC' = 17040212 (26 detail records)	**Sum**	*372.71*

HUC *17040213*

Basin	Segment Name		Length
ID17040213SK006_02	Cedar Creek - source to Cedar Creek Reservoir		44.27
ID17040213SK008_02	China, Browns, Corral, Whiskey Slough, Player Creeks - sourc		47.57
ID17040213SK002_03	Devil Creek - source to mouth		26.44
ID17040213SK002_04	Devil Creek - source to mouth		15.79
ID17040213SK002_02	Devil Creek - source to mouth		165.67
ID17040213SK005_04	House Creek - source to Cedar Creek Reservoir		2.58
ID17040213SK010_02	North Fork Salmon Falls Creek - source to Idaho/Nevada bor d		26.74
ID17040213SK010_03	North Fork Salmon Falls Creek - source to Idaho/Nevada bor d		0.85
ID17040213SK001_02	Salmon Falls Creek - Devil Creek to mouth		26.65
ID17040213SK009_02	Salmon Falls Creek - Idaho/Nevada border to Salmon Falls Cre		42.23
ID17040213SK009_03	Salmon Falls Creek - Idaho/Nevada border to Salmon Falls Cre		1.7
ID17040213SK003_03	Salmon Falls Creek - Salmon Falls Creek Dam to Devil Creek		2.23
ID17040213SK003_02	Salmon Falls Creek - Salmon Falls Creek Dam to Devil Creek		132.75
ID17040213SK013_02	Shoshone Creek - Cottonwood Creek to Hot Creek		25.13
ID17040213SK011_03	Shoshone Creek - Hot Creek to Idaho/Nevada border		2.45
ID17040213SK011_02	Shoshone Creek - Hot Creek to Idaho/Nevada border		85.58
ID17040213SK016_04	Shoshone Creek - source to Cottonwood Creek		0.09
ID17040213SK000_03	Unclassified Waters in CU 17040213		2.92
ID17040213SK000_02	Unclassified Waters in CU 17040213		49.56
Summary for 'HUC' = 17040213 (19 detail records)		**Sum**	*701.20*

HUC *17040214*

ID17040214SK014_03	Beaver Creek - Dry Creek to canal (T09N, R36E)		3.15
ID17040214SK014_02	Beaver Creek - Dry Creek to canal (T09N, R36E)		89.83
ID17040214SK020_03	Beaver Creek - Idaho Creek to Miners Creek		3.63

Basin	Segment Name		Length
ID17040214SK015_02	Beaver Creek - Rattlesnake Creek to Dry Creek		1.39
ID17040214SK021_03	Beaver Creek - source to Idaho Creek		59.03
ID17040214SK001_02	Camas Creek - Beaver Creek to Mud Lake		4.59
ID17040214SK001_05	Camas Creek - Beaver Creek to Mud Lake		7.1
ID17040214SK007_04	Camas Creek - confluence of West and East Camas Creeks to Sp		17.96
ID17040214SK002_02	Camas Creek - Spring Creek to Beaver Creek		29.09
ID17040214SK005_03	Dry Creek - source to mouth		12.83
ID17040214SK025_02	Dry Creek - source to mouth		23.62
ID17040214SK010_02	East Camas Creek - from and including Larkspur Creek to T13N		2.43
ID17040214SK011_02	East Camas Creek - source to Larkspur Creek		9.65
ID17040214SK011_03	East Camas Creek - source to Larkspur Creek		3.39
ID17040214SK024_02	Huntley Canyon Creek - source to mouth		5.77
ID17040214SK019_03	Miners Creek - source to mouth		0.97
ID17040214SK016_04	Rattlesnake Creek - source to mouth		1.06
ID17040214SK004_04	Spring Creek - Dry Creek to mouth		8.73
ID17040214SK004_02	Spring Creek - Dry Creek to mouth		2.59
ID17040214SK009_03	Warm Creek - Cottonwood Creek to mouth and East Camas Creek		21.11
ID17040214SK009_04	Warm Creek - Cottonwood Creek to mouth and East Camas Creek		6.54
ID17040214SK013_03	West Camas Creek - source to Targhee National Forest Boundar		6.54
ID17040214SK012_03	West Camas Creek - Targhee National Forest Boundary (T13N, R		21.34
Summary for 'HUC' = 17040214 (23 detail records)		**Sum**	*342.34*

HUC *17040215*

ID17040215SK019_02	Blue Creek - source to mouth		29.16
ID17040215SK022_03	Chandler Canyon complex		11.36

Basin	Segment Name		Length
ID17040215SK022_02	Chandler Canyon complex		90.14
ID17040215SK021_03	Crooked Creek - source to mouth		3.67
ID17040215SK018_03	Deep Creek - source to mouth		8.98
ID17040215SK003_02	Indian Creek - confluence of West and East Fork Indian Creek		10.48
ID17040215SK011_02	Medicine Lodge Creek - confluence of Warm and Fritz Creeks t		19.18
ID17040215SK006_02	Medicine Lodge Creek - Edie Creek to Indian Creek		8.42
ID17040215SK002_02	Medicine Lodge Creek - Indian Creek to playas		56.24
ID17040215SK007_02	Middle Creek - Dry Creek to mouth		27.36
ID17040215SK013_02	Warm Creek - source to mouth		14.87
ID17040215SK017_02	Webber Creek - source to mouth		28.27
Summary for 'HUC' = 17040215 (12 detail records)		**Sum**	*308.13*

HUC *17040216*

ID17040216SK005_02	Birch Creek - confluence of Mud and Scott Canyon Creeks to U		19.6
ID17040216SK005_04	Birch Creek - confluence of Mud and Scott Canyon Creeks to U		1.76
ID17040216SK005_03	Birch Creek - confluence of Mud and Scott Canyon Creeks to U		2.44
ID17040216SK002_02	Birch Creek - Pass Creek to Reno Ditch		18.69
ID17040216SK001_03	Birch Creek - Reno Ditch to playas		2.79
ID17040216SK001_02	Birch Creek - Reno Ditch to playas		200.7
ID17040216SK003_04	Birch Creek - Unnamed Tributary (T11N, R11W, Sec. 35) to Pas		6.73
ID17040216SK003_02	Birch Creek - Unnamed Tributary (T11N, R11W, Sec. 35) to Pas		43.74
ID17040216SK008_02	Cedar Gulch and Irish Canyon - source to mouth		29.73
ID17040216SK016_03	Eightmile Canyon Creek - source to mouth		4.68
ID17040216SK016_02	Eightmile Canyon Creek - source to mouth		50.76
ID17040216SK013_02	Meadow Canyon Creek - source to mouth		23.86

Basin	Segment Name		Length
ID17040216SK013_03	Meadow Canyon Creek - source to mouth		7.15
ID17040216SK011_03	Mud Creek - source to Unnamed Tributary (T12N, R11W, Sec. 29		5.99
ID17040216SK011_02	Mud Creek - source to Unnamed Tributary (T12N, R11W, Sec. 29		41.95
ID17040216SK010_03	Mud Creek - Unnamed Tributary (T12N, R11W, Sec. 29) to Willo		2.51
ID17040216SK010_02	Mud Creek - Unnamed Tributary (T12N, R11W, Sec. 29) to Willo		39.09
ID17040216SK007_02	Mud Creek - Willow Creek to Scott Canyon Creek		2.63
ID17040216SK007_03	Mud Creek - Willow Creek to Scott Canyon Creek		4.67
ID17040216SK015_02	Pass Creek - source to mouth		43.44
ID17040216SK015_03	Pass Creek - source to mouth		5.98
ID17040216SK014_02	Rocky Canyon Creek - source to mouth		15.7
ID17040216SK006_02	Scott Canyon Creek - source to mouth		16.84
ID17040216SK012_03	Unnamed Tributary - source to mouth (T12N, R11W, Sec. 29)		0.58
ID17040216SK012_02	Unnamed Tributary - source to mouth (T12N, R11W, Sec. 29)		49.59
ID17040216SK004_02	Unnamed Tributary - source to mouth; includes Timber Can yon		32.92
ID17040216SK004_03	Unnamed Tributary - source to mouth; includes Timber Can yon		2.53
Summary for 'HUC' = 17040216 (27 detail records)		**Sum**	*677.04*

HUC *17040217*

ID17040217SK008_02	Badger Creek - source to mouth		14.51
ID17040217SK027_03	Cabin Fork Creek - source to mouth		4.98
ID17040217SK027_02	Cabin Fork Creek - source to mouth		30.6
ID17040217SK011_02	Deep Creek - source to mouth		28.26
ID17040217SK020_02	Dry Creek - Dry Creek Canal to mouth		24.79
ID17040217SK028_02	Hurst Creek - source to mouth		48.43
ID17040217SK028_03	Hurst Creek - source to mouth		9.65

Basin	Segment Name		Length
ID17040217SK007_02	Little Lost River - Badger Creek to Big Spring Creek		79.14
ID17040217SK007_03	Little Lost River - Badger Creek to Big Spring Creek		4.13
ID17040217SK002_02	Little Lost River - Big Spring Creek to canal (T06N, R28E)		10.27
ID17040217SK001_03	Little Lost River - canal (T06N, R28E) to playas		0.14
ID17040217SK010_03	Little Lost River - confluence of Summit and Sawmill Creeks		1.04
ID17040217SK010_02	Little Lost River - confluence of Summit and Sawmill Creeks		15.02
ID17040217SK004_03	North Creek - source to mouth		5.78
ID17040217SK012_03	Sawmill Creek - Warm Creek to mouth		2.53
ID17040217SK026_02	Taylor Canyon Creek - source to mouth		36.22
ID17040217SK026_04	Taylor Canyon Creek - source to mouth		1.72
ID17040217SK005_03	Uncle Ike Creek - source to mouth		4.47
ID17040217SK006_02	Unnamed Tributaries - source to mouth (T08N, R28E)		80.01
ID17040217SK029_02	Unnamed Tributary - source to mouth (T5N, R29E, Sec. 04 and		8.88
ID17040217SK022_02	Wet Creek - Squaw Creek to mouth		19.66
Summary for 'HUC' = 17040217 (21 detail records)		**Sum**	*430.23*

HUC	17040218		
ID17040218SK045_05	Alder Creek - source to mouth		4.65
ID17040218SK047_02	Antelope Creek - Dry Fork Creek to Spring Creek		9.64
ID17040218SK047_05	Antelope Creek - Dry Fork Creek to Spring Creek		0.25
ID17040218SK057_02	Antelope Creek - source to Iron Bog Creek		19.16
ID17040218SK057_03	Antelope Creek - source to Iron Bog Creek		3.49
ID17040218SK021_02	Arentson Gulch and Unnamed Tributaries - source to mouth (T1		35.86
ID17040218SK007_05	Big Lost River - Alder Creek to Antelope Creek		16.56
ID17040218SK007_02	Big Lost River - Alder Creek to Antelope Creek		7.17

Basin	Segment Name	Length
ID17040218SK004_02	Big Lost River - Antelope Creek to Spring Creek	40.67
ID17040218SK010_02	Big Lost River - Beck and Evan Ditch to Alder Creek	2.79
ID17040218SK010_05	Big Lost River - Beck and Evan Ditch to Alder Creek	7.82
ID17040218SK013_02	Big Lost River - Jones Creek to McKay Reservoir	11.86
ID17040218SK011_05	Big Lost River - McKay Reservoir Dam to Beck and Evan Ditch	14.72
ID17040218SK011_02	Big Lost River - McKay Reservoir Dam to Beck and Evan Ditch	76.64
ID17040218SK002_04	Big Lost River - Spring Creek to Big Lost River Sinks (playa	6.05
ID17040218SK002_03	Big Lost River - Spring Creek to Big Lost River Sinks (playa	5.96
ID17040218SK002_02	Big Lost River - Spring Creek to Big Lost River Sinks (playa	441.96
ID17040218SK025_05	Big Lost River - Summit Creek to and including Burnt Creek	5.43
ID17040218SK025_04	Big Lost River - Summit Creek to and including Burnt Creek	4.96
ID17040218SK015_02	Big Lost River - Thousand Springs Creek to Jones Creek	19.66
ID17040218SK001_02	Big Lost River Sinks (playas) and Dry Channel	2.08
ID17040218SK001_06	Big Lost River Sinks (playas) and Dry Channel	32.37
ID17040218SK042_02	Boone Creek - source to mouth	11.96
ID17040218SK040_02	Cabin Creek - source to mouth	13.82
ID17040218SK018_02	Cedar Creek - source to mouth	6.85
ID17040218SK049_05	Cherry Creek - confluence of Left Fork Cherry and Lupine Cre	0.65
ID17040218SK049_02	Cherry Creek - confluence of Left Fork Cherry and Lupine Cre	37.13
ID17040218SK041_03	Corral Creek - source to mouth	2.19
ID17040218SK041_02	Corral Creek - source to mouth	18.03
ID17040218SK059_05	Dry Fork Creek - source to mouth	8.72
ID17040218SK059_03	Dry Fork Creek - source to mouth	15.09
ID17040218SK059_02	Dry Fork Creek - source to mouth	37.03

Basin	Segment Name	Length
ID17040218SK008_02	Elbow, Jepson, Clark, Maddock, and Jaggles Canyon Creek - so	35.46
ID17040218SK008_03	Elbow, Jepson, Clark, Maddock, and Jaggles Canyon Creek - so	3.95
ID17040218SK032_02	Fall Creek - source to mouth	22.22
ID17040218SK032_04	Fall Creek - source to mouth	2.22
ID17040218SK061_03	Hammond Spring Creek complex	5.8
ID17040218SK061_02	Hammond Spring Creek complex	69.6
ID17040218SK054_02	Iron Bog Creek - confluence of Left and Right Fork Iron Bog	1.52
ID17040218SK014_02	Jones Creek - source to mouth	10.17
ID17040218SK005_06	King, Lime Kiln, Ramshorn, and Anderson Canyon Creek - sourc	0.21
ID17040218SK005_02	King, Lime Kiln, Ramshorn, and Anderson Canyon Creek - sourc	36.68
ID17040218SK017_02	Lone Cedar Creek - source to mouth	5.7
ID17040218SK006_06	Lower Pass Creek - source to mouth	3.95
ID17040218SK006_02	Lower Pass Creek - source to mouth	13.58
ID17040218SK006_05	Lower Pass Creek - source to mouth	5.32
ID17040218SK050_02	Lupine Creek - source to mouth	24.24
ID17040218SK027_03	North Fork Big Lost River - source to mouth	12.65
ID17040218SK023_05	Parsons Creek - T8N, R22E, Sec. 24, point of perennial flow	11.13
ID17040218SK009_03	Pass Creek - source to mouth	10.22
ID17040218SK022_03	Sage Creek - source to mouth	7.65
ID17040218SK060_02	South Fork Antelope Creek - Antelope Creek to mouth	4.48
ID17040218SK003_02	Spring Creek - Lower Pass Creek to Big Lost River	31.37
ID17040218SK048_02	Spring Creek - source to mouth	9.99
ID17040218SK035_04	Star Hope Creek - Lake Creek to mouth	7.76
ID17040218SK036_04	Star Hope Creek - source to Lake Creek	3.32

Basin	Segment Name		Length
ID17040218SK016_02	Thousand Springs Creek - source to mouth		20.15
ID17040218SK016_03	Thousand Springs Creek - source to mouth		12.02
ID17040218SK016_05	Thousand Springs Creek - source to mouth		8.86
ID17040218SK030_04	Wildhorse Creek - Fall Creek to mouth		4.95
ID17040218SK020_02	Willow Creek - source to mouth		19.29
Summary for 'HUC' = 17040218 (61 detail records)		**Sum**	*1325.6*
HUC	*17040219*		
ID17040219SK002_02	Big Wood River - Magic Reservoir Dam to mouth		48.02
ID17040219SK002_03	Big Wood River - Magic Reservoir Dam to mouth		3.1
ID17040219SK004_02	Big Wood River - Seamans Creek to Magic Reservoir		87.75
ID17040219SK004_03	Big Wood River - Seamans Creek to Magic Reservoir		5.45
ID17040219SK030_04	Black Canyon Creek - source to mouth		9.08
ID17040219SK010_02	East Fork Wood River - Hyndman Creek to mouth		14.2
ID17040219SK011_04	East Fork Wood River - source to Hyndman Creek		2.04
ID17040219SK012_02	Hyndman Creek - source Creek to mouth		35.52
ID17040219SK009_02	Indian Creek - source to mouth		12.95
ID17040219SK015_02	Lake Creek - source to mouth		10.64
ID17040219SK001_02	Malad River - confluence of Black Canyon Creek and Big Wood		16.75
ID17040219SK005_02	Seamans Creek - Slaughterhouse Creek to mouth		5.26
ID17040219SK029_04	Thorn Creek - source to mouth		5.35
ID17040219SK029_03	Thorn Creek - source to mouth		7.09
ID17040219SK013_02	Trail Creek - Corral Creek to mouth		7.76
ID17040219SK000_02	Unclassified Waters in CU 17040219		250.7
ID17040219SK000_03	Unclassified Waters in CU 17040219		2.13

Basin	Segment Name		Length
ID17040219SK000_05	Unclassified Waters in CU 17040219		9
Summary for 'HUC' = 17040219 (18 detail records)		**Sum**	*532.78*
HUC	*17040220*		
ID17040220SK013_02	Camas Creek - Corral Creek to Soldier Creek		36.96
ID17040220SK013_03	Camas Creek - Corral Creek to Soldier Creek		11.43
ID17040220SK001_02	Camas Creek - Elk Creek to Magic Reservoir		49.49
ID17040220SK007_02	Camas Creek - Solider Creek to Elk Creek		12.17
ID17040220SK019_04	Chimney Creek - source to mouth		7.61
ID17040220SK019_03	Chimney Creek - source to mouth		2.54
ID17040220SK008_03	Deer Creek - Big Deer Creek to mouth		11.78
ID17040220SK008_04	Deer Creek - Big Deer Creek to mouth		0.38
ID17040220SK008_02	Deer Creek - Big Deer Creek to mouth		13.51
ID17040220SK009_02	Deer Creek - source to and including Big Deer Creek		13.8
ID17040220SK016_03	East Fork Corral Creek - source to mouth		1.9
ID17040220SK022_02	Malad River - source to mouth		36.34
ID17040220SK022_03	Malad River - source to mouth		8.75
ID17040220SK020_02	Negro Creek - source to mouth		21.25
ID17040220SK020_03	Negro Creek - source to mouth		0.43
ID17040220SK010_02	Powell Creek - source to mouth		16.77
ID17040220SK012_03	Soldier Creek - source to and including Wardrop Creek		6.52
ID17040220SK026_03	Spring Creek Complex		7.15
ID17040220SK026_02	Spring Creek Complex		18.19
ID17040220SK014_02	Threemile Creek - source to mouth		21.75
ID17040220SK021_02	Wildhorse Creek - source to mouth		35.56

Basin	Segment Name		Length
ID17040220SK003_02	Willow Creek - Beaver Creek to mouth		8.98
ID17040220SK005_03	Willow Creek - source to Beaver Creek		4.84
Summary for 'HUC' = 17040220 (23 detail records)		**Sum**	*348.10*

HUC *17040221*

ID17040221SK021_02	Baugh Creek - source to mouth		49.01
ID17040221SK021_03	Baugh Creek - source to mouth		3.81
ID17040221SK004_04	Carey Lake outlet		1.07
ID17040221SK006_02	Fish Creek - Fish Creek Reservoir Dam to mouth		45.63
ID17040221SK017_02	Friedman Creek - Trail Creek to mouth		4.65
ID17040221SK011_02	Little Fish Creek - source to mouth		26.06
ID17040221SK011_03	Little Fish Creek - source to mouth		6.56
ID17040221SK002_02	Little Wood River - Carey Lake outlet to Richfield (T04S, R1		1.28
ID17040221SK010_02	Little Wood River - Little Wood River Reservoir Dam to Carey		39.46
ID17040221SK013_02	Little Wood River - Muldoon Creek to Little Wood River Reser		24.78
ID17040221SK013_05	Little Wood River - Muldoon Creek to Little Wood River Reser		2.47
ID17040221SK001_02	Little Wood River - Richfield (T04S, R19E, Sec. 25) to mouth		26.51
ID17040221SK020_02	Little Wood River - source to Muldoon Creek		96.14
ID17040221SK020_05	Little Wood River - source to Muldoon Creek		1.1
ID17040221SK015_03	South Fork Muldoon Creek - Friedman Creek to mouth		8.02
ID17040221SK015_04	South Fork Muldoon Creek - Friedman Creek to mouth		3.17
ID17040221SK015_02	South Fork Muldoon Creek - Friedman Creek to mouth		9.83
ID17040221SK016_02	South Fork Muldoon Creek - source to Friedman Creek		21.81
ID17040221SK016_03	South Fork Muldoon Creek - source to Friedman Creek		2.7
ID17040221SK000_02	Unclassified Waters in CU 17040221		185.66

Basin	Segment Name		Length
ID17040221SK000_03	Unclassified Waters in CU 17040221		39.19
ID17040221SK009_02	West Fork Fish Creek - source to Fish Creek Reservoir		27.04
Summary for 'HUC' = 17040221 (22 detail records)		**Sum**	*625.95*
Summary for 'Basin' = Upper Snake (579 detail records)		**Sum**	*13120.*
		Grand Total	*36874.56*

Section 4a: Lakes with EPA Approved TMDLs

Basin				SIZE (Acres)
Clearwater				
HUC 17060306	***Segment Name***	***CAUSE NAME:***	***APROVAL DATE:***	
ID17060306CL009_03	Winchester Lake	Bacteria	5/15/1999	86.49
	Winchester Lake	Nutrients	5/15/1999	
	Winchester Lake	Organic enrichment/Low DO	5/15/1999	
	Winchester Lake	Siltation	5/15/1999	
	Winchester Lake	Thermal modifications	5/15/1999	
	Summary for 17060306 (5 detail records)			*432.44*
				998931
HUC 17060308	***Segment Name***	***CAUSE NAME:***	***APROVAL DATE:***	
ID17060308CL002_02	Dworshak Reservoir tributaries	Bacteria	1/15/2003	259.66
	Dworshak Reservoir tributaries	Siltation	1/15/2003	
	Dworshak Reservoir tributaries	Thermal modifications	1/15/2003	
ID17060308CL002_02a	Swamp Creek	Siltation	1/16/2003	12.74
	Swamp Creek	Thermal modifications	1/16/2003	
ID17060308CL002_03a	Swamp Creek	Siltation	1/16/2003	0.72
	Swamp Creek	Thermal modifications	1/16/2003	
	Summary for 17060308 (7 detail records)			*805.90*
				001058
	Summary for Clearwater (12 detail records)			*1238.3*
				499999
Panhandle				
HUC 17010214	***Segment Name***	***CAUSE NAME:***	***APROVAL DATE:***	
ID17010214PN013L_0L	Cocolalla Lake	Nutrients	4/2/2001	803.09
	Cocolalla Lake	Organic enrichment/Low DO	4/2/2001	
ID17010214PN018_02a	Falls Creek	Nutrients	10/8/2002	10.15
ID17010214PN018L_0L	Pend Oreille Lake	Nutrients	10/8/2002	80827.85
	Summary for 17010214 (4 detail records)			*82444.*
				181615

Basin				SIZE (Acres)
HUC 17010303	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17010303PN001L_0L	Coeur d'Alene Lake	Metals	8/18/2000	27968.29
	Summary for 17010303 (1 detail record)			*27968.* *289062*
HUC 17010305	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17010305PN016L_0L	Hauser Lake	Nutrients	1/31/2001	538.69
ID17010305PN005L_0L	Hayden Lake	Nutrients	1/31/2001	4714.75
ID17010305PN013L_0L	Twin Lakes	Nutrients	1/31/2001	915.0276
	Summary for 17010305 (3 detail records)			*6168.4* *675903*
	Summary for Panhandle (8 detail records)			*116580* *.93826*

Southwest

HUC 17050104	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17050104SW005L_0L	Juniper Basin Reservoir	Siltation	3/12/2003	242.16
	Summary for 17050104 (1 detail record)			*242.16* *000366*
HUC 17050123	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050123SW007_05	Cascade Reservoir	Nutrients	4/19/1999	1.13
	Cascade Reservoir	Organic enrichment/Low DO	4/19/1999	
	Cascade Reservoir	pH	4/19/1999	
	Cascade Reservoir	Phosphorus	5/13/1996	
ID17050123SW007L_0L	Cascade Reservoir	Nutrients	4/19/1999	602.93
	Cascade Reservoir	Organic enrichment/Low DO	4/19/1999	
	Cascade Reservoir	pH	4/19/1999	
	Cascade Reservoir	Phosphorus	5/13/1996	
	Summary for 17050123 (8 detail records)			*2416.2* *399706*
	Summary for Southwest (9 detail records)			*2658.3* *999743*

Upper Snake

HUC 17040208	Segment Name	CAUSE NAME:	APROVAL DATE:	

Basin				SIZE (Acres)
ID17040208SK013_02	Hawkins Creek - source to Hawkins Reservoir	Nutrients	4/18/2001	25.27
	Hawkins Creek - source to Hawkins Reservoir	Siltation	4/18/2001	
ID17040208SK013_02a	Hawkins Creek	Nutrients	4/18/2001	4.97
	Hawkins Creek	Siltation	4/18/2001	
ID17040208SK013_03	Hawkins Creek - source to Hawkins Reservoir	Nutrients	4/18/2001	0.93
	Hawkins Creek - source to Hawkins Reservoir	Siltation	4/18/2001	
	Summary for 17040208 (6 detail records)			*62.340*
				000510
HUC *17040212*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17040212SK028_02	Clear Lakes	Phosphorus	8/25/2000	22.24
	Clear Lakes	Siltation	8/25/2000	
ID17040212SK035_04	Pioneer Reservoir	Phosphorus	8/25/2000	229.81
	Pioneer Reservoir	Siltation	8/25/2000	
	Summary for 17040212 (4 detail records)			*504.09*
				999465
	Summary for Upper Snake (10 detail records)			*566.43*
				999516
			Grand Total	*121044.12*

Section 4a: Rivers with EPA Approved TMDLs

Basin — **SIZE (Miles)**

Clearwater

HUC 17060108	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17060108CL005_02	Paradise Creek - Urban boundary to Idaho/Washington border	Bacteria	2/12/1998	1.17
	Paradise Creek - Urban boundary to Idaho/Washington border	Nutrients	2/12/1998	
	Paradise Creek - Urban boundary to Idaho/Washington border	Siltation	2/12/1998	
	Paradise Creek - Urban boundary to Idaho/Washington border	Thermal modifications	2/12/1998	
	Paradise Creek - Urban boundary to Idaho/Washington border	Unionized Ammonia	2/12/1998	
ID17060108CL005_02a	Paradise Creek - forest habitat boundary to Urban boundary	Bacteria	2/12/1998	22.34
	Paradise Creek - forest habitat boundary to Urban boundary	Nutrients	2/12/1998	
	Paradise Creek - forest habitat boundary to Urban boundary	Siltation	2/12/1998	
	Paradise Creek - forest habitat boundary to Urban boundary	Thermal modifications	2/12/1998	
	Paradise Creek - forest habitat boundary to Urban boundary	Unionized Ammonia	2/12/1998	
ID17060108CL005_02b	Idlers Rest Creek - source to forest habitat boundary	Bacteria	2/12/1998	5.49
	Idlers Rest Creek - source to forest habitat boundary	Nutrients	2/12/1998	
	Idlers Rest Creek - source to forest habitat boundary	Siltation	2/12/1998	
	Idlers Rest Creek - source to forest habitat boundary	Thermal modifications	2/12/1998	
	Idlers Rest Creek - source to forest habitat boundary	Unionized Ammonia	2/12/1998	
	Summary for 17060108 (15 detail records)			*144.99*
				999940

HUC 17060305	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17060305CL002_02	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Bacteria	6/9/2000	24.33
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Nutrients	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Organic enrichment/Low DO	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Siltation	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Thermal modifications	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Unionized Ammonia	6/9/2000	

Basin				SIZE (Miles)
ID17060305CL002_04	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Bacteria	6/9/2000	9.13
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Nutrients	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Organic enrichment/Low DO	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Siltation	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Thermal modifications	6/9/2000	
	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups	Unionized Ammonia	6/9/2000	
ID17060305CL003_02	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Bacteria	6/9/2000	39.22
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Nutrients	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Organic enrichment/Low DO	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Siltation	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Thermal modifications	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Unionized Ammonia	6/9/2000	
ID17060305CL003_03	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Bacteria	6/9/2000	0.39
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Nutrients	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Organic enrichment/Low DO	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Siltation	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Thermal modifications	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Unionized Ammonia	6/9/2000	
ID17060305CL003_04	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Bacteria	6/9/2000	7.54
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Nutrients	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Organic enrichment/Low DO	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Siltation	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Thermal modifications	6/9/2000	
	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0	Unionized Ammonia	6/9/2000	
ID17060305CL009_02	Long Haul Creek - source to mouth	Nutrients	6/9/2000	14.99
	Long Haul Creek - source to mouth	Organic enrichment/Low DO	6/9/2000	
	Long Haul Creek - source to mouth	Pathogens	6/9/2000	

Basin				SIZE (Miles)
ID17060305CL009_02	Long Haul Creek - source to mouth	Siltation	6/9/2000	14.99
	Long Haul Creek - source to mouth	Thermal modifications	6/9/2000	
ID17060305CL004_02	Red Rock Creek - Red Rock Creek waterfall (3.6 miles upstrea	Siltation	6/9/2000	2.13
ID17060305CL004_03	Red Rock Creek - Red Rock Creek waterfall (3.6 miles upstrea	Siltation	6/9/2000	3.34
ID17060305CL005_02	Red Rock Creek - source to Red Rock Creek waterfall (3.6 mil	Siltation	6/9/2000	49.9
ID17060305CL007_02	Shebang Creek - source to mouth	Nutrients	6/9/2000	34.33
	Shebang Creek - source to mouth	Organic enrichment/Low DO	6/9/2000	
	Shebang Creek - source to mouth	Pathogens	6/9/2000	
	Shebang Creek - source to mouth	Siltation	6/9/2000	
	Shebang Creek - source to mouth	Thermal modifications	6/9/2000	
ID17060305CL007_03	Shebang Creek - source to mouth	Nutrients	6/9/2000	7.72
	Shebang Creek - source to mouth	Organic enrichment/Low DO	6/9/2000	
	Shebang Creek - source to mouth	Pathogens	6/9/2000	
	Shebang Creek - source to mouth	Siltation	6/9/2000	
	Shebang Creek - source to mouth	Thermal modifications	6/9/2000	
ID17060305CL008_02	South Fork Cottonwood Creek - source to mouth	Nutrients	6/9/2000	24.98
	South Fork Cottonwood Creek - source to mouth	Organic enrichment/Low DO	6/9/2000	
	South Fork Cottonwood Creek - source to mouth	Pathogens	6/9/2000	
	South Fork Cottonwood Creek - source to mouth	Siltation	6/9/2000	
	South Fork Cottonwood Creek - source to mouth	Thermal modifications	6/9/2000	
ID17060305CL008_03	South Fork Cottonwood Creek - source to mouth	Nutrients	6/6/2000	5.02
	South Fork Cottonwood Creek - source to mouth	Organic enrichment/Low DO	6/6/2000	
	South Fork Cottonwood Creek - source to mouth	Pathogens	6/6/2000	
	South Fork Cottonwood Creek - source to mouth	Siltation	6/6/2000	
	South Fork Cottonwood Creek - source to mouth	Thermal modifications	6/6/2000	
ID17060305CL006_02	Stockney Creek - source to mouth	Bacteria	6/9/2000	45.36
	Stockney Creek - source to mouth	Nutrients	6/9/2000	

Basin				SIZE (Miles)
ID17060305CL006_02	Stockney Creek - source to mouth	Organic enrichment/Low DO	6/9/2000	45.36
	Stockney Creek - source to mouth	Siltation	6/9/2000	
	Stockney Creek - source to mouth	Thermal modifications	6/9/2000	
ID17060305CL006_03	Stockney Creek - source to mouth	Bacteria	6/9/2000	7.49
	Stockney Creek - source to mouth	Nutrients	6/9/2000	
	Stockney Creek - source to mouth	Organic enrichment/Low DO	6/9/2000	
	Stockney Creek - source to mouth	Siltation	6/9/2000	
	Stockney Creek - source to mouth	Thermal modifications	6/9/2000	
	Summary for 17060305 (68 detail records)			*1238.4*
				800152
HUC *17060306*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17060306CL036_02	Grasshopper Creek - source to mouth	Bacteria	6/6/2000	19.57
	Grasshopper Creek - source to mouth	Nutrients	6/6/2000	
	Grasshopper Creek - source to mouth	Organic enrichment/Low DO	6/6/2000	
	Grasshopper Creek - source to mouth	Siltation	6/6/2000	
	Grasshopper Creek - source to mouth	Thermal modifications	6/6/2000	
ID17060306CL036_03	Grasshopper Creek - source to mouth	Bacteria	6/6/2000	4.3
	Grasshopper Creek - source to mouth	Nutrients	6/6/2000	
	Grasshopper Creek - source to mouth	Organic enrichment/Low DO	6/6/2000	
	Grasshopper Creek - source to mouth	Thermal modifications	6/6/2000	
ID17060306CL034_04	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre	Bacteria	6/6/2000	12.21
	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre	Nutrients	6/6/2000	
	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre	Organic enrichment/Low DO	6/6/2000	
	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre	Thermal modifications	6/6/2000	
ID17060306CL035_02	Heywood, Wilson Creeks and tributaries	Bacteria	6/6/2000	48.63
	Heywood, Wilson Creeks and tributaries	Nutrients	6/6/2000	
	Heywood, Wilson Creeks and tributaries	Organic enrichment/Low DO	6/6/2000	
	Heywood, Wilson Creeks and tributaries	Siltation	6/6/2000	

Basin				SIZE (Miles)
ID17060306CL035_02	Heywood, Wilson Creeks and tributaries	Thermal modifications	6/6/2000	48.63
ID17060306CL035_03	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Bacteria	6/6/2000	6.39
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Nutrients	6/6/2000	
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Organic enrichment/Low DO	6/6/2000	
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Siltation	6/6/2000	
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Thermal modifications	6/6/2000	
ID17060306CL035_04	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Bacteria	6/6/2000	3.87
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Nutrients	6/6/2000	
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Organic enrichment/Low DO	6/6/2000	
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Siltation	6/6/2000	
	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi	Thermal modifications	6/6/2000	
ID17060306CL010_02	Lapwai Creek - source to Winchester Lake	Bacteria	3/22/1999	13.84
	Lapwai Creek - source to Winchester Lake	Nutrients	3/21/1999	
	Lapwai Creek - source to Winchester Lake	Organic enrichment/Low DO	3/21/1999	
	Lapwai Creek - source to Winchester Lake	Siltation	3/22/1999	
	Lapwai Creek - source to Winchester Lake	Thermal modifications	3/21/1999	
ID17060306CL010_03	Lapwai Creek - source to Winchester Lake	Bacteria	3/22/1999	1.31
	Lapwai Creek - source to Winchester Lake	Nutrients	3/22/1999	
	Lapwai Creek - source to Winchester Lake	Organic enrichment/Low DO	3/22/1999	
	Lapwai Creek - source to Winchester Lake	Siltation	3/22/1999	
	Lapwai Creek - source to Winchester Lake	Thermal modifications	3/22/1999	
ID17060306CL028_02	Lolo Creek - source to Yakus Creek	Siltation	6/6/2000	37.74
ID17060306CL038_02	Winter Creek - source to Winter Creek waterfall (3.4 miles u	Bacteria	6/6/2000	6.77
	Winter Creek - source to Winter Creek waterfall (3.4 miles u	Nutrients	6/6/2000	
	Winter Creek - source to Winter Creek waterfall (3.4 miles u	Organic enrichment/Low DO	6/6/2000	
	Winter Creek - source to Winter Creek waterfall (3.4 miles u	Siltation	6/6/2000	
	Winter Creek - source to Winter Creek waterfall (3.4 miles u	Thermal modifications	6/6/2000	

Basin				SIZE (Miles)
ID17060306CL037_03	Winter Creek - Winter Creek waterfall (3.4 miles upstream) t	Bacteria	6/6/200	2.41
	Winter Creek - Winter Creek waterfall (3.4 miles upstream) t	Nutrients	6/6/2000	
	Winter Creek - Winter Creek waterfall (3.4 miles upstream) t	Organic enrichment/Low DO	6/6/2000	
	Winter Creek - Winter Creek waterfall (3.4 miles upstream) t	Siltation	6/6/2000	
	Winter Creek - Winter Creek waterfall (3.4 miles upstream) t	Thermal modifications	6/6/2000	
	Summary for 17060306 (49 detail records)			*617.73*
				000597

HUC 17060307	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17060307CL040_02	Cold Springs Creek - source to mouth	Thermal modifications	12/9/2003	11.26
ID17060307CL045_02	Cougar Creek - source to mouth	Thermal modifications	12/9/2003	5.9
ID17060307CL007_02a	Sylvan Creek	Thermal modifications	12/9/2003	5.72
ID17060307CL021_02	Gravey Creek - source to mouth	Thermal modifications	12/9/2003	19.12
ID17060307CL021_02a	Marten Creek	Thermal modifications	12/9/2003	7.56
ID17060307CL021_02b	Grass Creek	Thermal modifications	12/9/2003	1.65
ID17060307CL021_03	Gravey Creek - roadless area.	Thermal modifications	12/9/2003	2.57
ID17060307CL021_03a	Gravey Creek - Serpent Creek to roadless boundary	Thermal modifications	12/9/2003	1.64
ID17060307CL012_02	Middle Creek - tributaries	Thermal modifications	12/9/2003	18.24
ID17060307CL012_02a	Middle Creek - headwater segment	Thermal modifications	12/9/2003	8.46
ID17060307CL012_03	Middle Creek - source to mouth	Thermal modifications	12/9/2003	2.04
ID17060307CL012_03a	Middle Creek	Thermal modifications	12/9/2003	5.55
ID17060307CL032_02a	Deception Gulch Creek	Siltation	12/9/2003	6.38
	Deception Gulch Creek	Thermal modifications	12/9/2003	
ID17060307CL001_02a	Sneak Creek	Thermal modifications	12/9/2003	5.38
ID17060307CL005_02a	Tamarack Creek	Thermal modifications	12/9/2003	5.66
ID17060307CL005_04	Orogrande Creek - French Creek to mouth	Thermal modifications	12/9/2003	12.59
ID17060307CL006_02	Orogrande Creek - source to French Creek	Thermal modifications	12/9/2003	36.82
ID17060307CL006_03	Orogrande Creek - source to French Creek	Thermal modifications	12/9/2003	4.04
ID17060307CL030_02	Osier Creek - source to mouth	Thermal modifications	12/9/2003	18.92

Basin				SIZE (Miles)
ID17060307CL030_02a	Sugar, Pollock Creeks	Thermal modifications	12/9/2003	13.75
ID17060307CL030_03	Osier Creek - source to mouth	Thermal modifications	12/9/2003	3.88
ID17060307CL044_02a	Grizzly Creek	Thermal modifications	12/9/2003	4.54
	Summary for 17060307 (23 detail records)			*208.05*
				000090
HUC *17060308*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17060308CL025_02	Breakfast Creek - source to Stony Creek	Siltation	1/15/2003	10.04
ID17060308CL029_02	Cranberry Creek - source to Dworshak Reservoir	Bacteria	1/15/2003	14.25
	Cranberry Creek - source to Dworshak Reservoir	Siltation	1/15/2003	
	Cranberry Creek - source to Dworshak Reservoir	Thermal modifications	1/15/2003	
ID17060308CL030_02b	Elk Creek	Thermal modifications	1/15/2003	16.51
ID17060308CL030_02d	Partridge Creek	Siltation	1/15/2003	6.88
ID17060308CL030_03	Elk Creek - north of Elk Creek Reservoir	Thermal modifications	1/15/2003	1.04
ID17060308CL030_03a	Elk Creek - Reservoir to Elk Creek Falls	Thermal modifications	1/15/2003	7.57
ID17060308CL030_03b	Elk Creek - Elk Creek Falls to conflence of Deep Creek	Thermal modifications	1/15/2003	4.5
ID17060308CL030_04	Elk Creek - confluence of Deep Creek to Cedar Creek	Thermal modifications	1/15/2003	3.66
ID17060308CL034_02	Three Bear, Round Meadow, Oviatt Creeks and tributaries	Bacteria	1/15/2003	58.48
	Three Bear, Round Meadow, Oviatt Creeks and tributaries	Siltation	1/15/2003	
	Three Bear, Round Meadow, Oviatt Creeks and tributaries	Thermal modifications	1/15/2003	
ID17060308CL034_02a	Long Meadow Creek	Bacteria	1/15/2003	1.2
	Long Meadow Creek	Siltation	1/15/2003	
	Long Meadow Creek	Thermal modifications	1/15/2003	
ID17060308CL034_03	Meadow Creek, McGary Creek to Three Bear Creek.	Bacteria	1/15/2003	7.7
	Meadow Creek, McGary Creek to Three Bear Creek.	Siltation	1/15/2003	
	Meadow Creek, McGary Creek to Three Bear Creek.	Thermal modifications	1/15/2003	
ID17060308CL034_04	Long Meadow Creek - Three Bear Creek to Dworshak Reservoir	Bacteria	1/15/2003	4.4
	Long Meadow Creek - Three Bear Creek to Dworshak Reservoir	Siltation	1/15/2003	
	Long Meadow Creek - Three Bear Creek to Dworshak Reservoir	Thermal modifications	1/15/2003	

Basin				SIZE (Miles)
ID17060308CL003_03	Reeds Creek - Alder Creek to Gold Creek	Siltation	1/15/2003	3.35
ID17060308CL003_04	Reeds Creek - Gold Creek to Dworshak Reservoir	Siltation	1/15/2003	1.85
ID17060308CL004_02	Reeds Creek - source to Deer Creek, inc. tribs	Siltation	1/15/2003	29.23
ID17060308CL004_03	Reeds Creek - Deer Creek to Alder Creek	Siltation	1/15/2003	8.05
ID17060308CL020_04a	Breakfast Creek - Stony Creek to Dworshak Reservoir	Siltation	1/15/2003	1.91
ID17060308CL028_02	Swamp Creek - source to Dworshak Reservoir	Siltation	1/16/2003	1.79
	Swamp Creek - source to Dworshak Reservoir	Thermal modifications	1/16/2003	
ID17060308CL028_03	Swamp Creek - source to Dworshak Reservoir	Siltation	1/16/2003	3
	Swamp Creek - source to Dworshak Reservoir	Thermal modifications	1/16/2003	
	Summary for 17060308 (31 detail records)			*362.25*
				999855
	Summary for Clearwater (186 detail records)			*2571.5*
				200201

Panhandle

HUC 17010214	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17010214PN045_02	Caribou Creek - source to mouth	Siltation	4/2/2001	16.97
ID17010214PN024_02	Chloride Creek - source to mouth	Siltation	4/2/2001	7.14
ID17010214PN012_02	Cocolalla Creek - Cocolalla Lake to mouth	Siltation	9/14/2001	13.3
ID17010214PN012_04	Cocolalla Creek - Cocolalla Lake to mouth	Siltation	9/14/2000	7.69
ID17010214PN014_02	Cocolalla Creek - source to Cocolalla Lake	Siltation	9/14/2001	40.66
ID17010214PN014_03	Cocolalla Creek - source to Cocolalla Lake	Siltation	9/14/2001	9.2
ID17010214PN014_04	Cocolalla Creek - source to Cocolalla Lake	Siltation	9/14/2001	0.2
ID17010214PN015_02	Fish Creek - source to mouth	Siltation	4/2/2001	15.27
ID17010214PN015_03	Fish Creek - source to mouth	Siltation	4/2/2001	2.37
ID17010214PN023_02	Gold Creek - source to West Gold Creek	Siltation	4/2/2001	6.92
ID17010214PN023_03	Gold Creek - source to West Gold Creek	Siltation	4/2/2001	1.16
ID17010214PN021_02	Gold Creek - West Gold Creek to mouth	Siltation	4/2/2001	4.63
ID17010214PN021_03	Gold Creek - West Gold Creek to mouth	Siltation	4/2/2001	1.67
ID17010214PN035_02	Grouse Creek - North Fork Grouse Creek to mouth	Siltation	4/2/2001	3.34

Basin				SIZE (Miles)
ID17010214PN035_03	Grouse Creek - North Fork Grouse Creek to mouth	Siltation	4/2/2001	9.4
ID17010214PN036_02	Grouse Creek - source to North Fork Grouse Creek	Siltation	4/2/2001	28.57
ID17010214PN036_03	Grouse Creek - source to North Fork Grouse Creek	Siltation	4/2/2001	6.81
ID17010214PN003_02	Hoodoo Creek - source to mouth	Siltation	9/14/2000	15.68
ID17010214PN003_02a	Hoodoo Creek	Siltation	9/14/2000	
ID17010214PN003_03	Hoodoo Creek - source to mouth	Siltation	9/14/2000	3.53
ID17010214PN031_04	Lower Pack River - Sand Creek to mouth	Siltation	9/14/2001	19.2
ID17010214PN037_02	North Fork Grouse Creek - source to mouth	Siltation	9/14/2001	17.43
ID17010214PN039_04	Upper Pack River - Lindsey Creek to Sand Creek	Siltation	4/2/2001	3.8
ID17010214PN022_02	West Gold Creek- source to mouth	Siltation	4/2/2001	9.62
Summary for 17010214 (24 detail records)				*260.24*
				000020
HUC *17010215*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17010215PN026_02	Binarch Creek - Idaho/Washington border to mouth	Siltation	6/23/2003	13.16
ID17010215PN024_03	Kalispell Creek - Idaho/Washington border to mouth	Siltation	3/27/2002	12.18
ID17010215PN001_05	Lower Priest River - Upper West Branch Priest River to mouth	Siltation	6/23/2003	35.96
ID17010215PN030_04	Lower West Branch Priest River - Idaho/Washington border to	Siltation	3/27/2002	10.81
ID17010215PN003_02	Middle Fork East River - source to mouth	Thermal modifications	6/23/2003	26.32
ID17010215PN003_03	Middle Fork East River - source to mouth	Thermal modifications	6/23/2003	6.58
ID17010215PN003_04	Middle Fork East River - source to mouth	Siltation	6/23/2003	2.51
	Middle Fork East River - source to mouth	Thermal modifications	6/23/2003	
ID17010215PN004_03	North Fork East River - source to mouth	Thermal modifications	6/23/2003	2.22
ID17010215PN023_02	Reeder Creek - source to mouth	Siltation	6/23/2003	22.63
ID17010215PN023_03	Reeder Creek - source to mouth	Siltation	6/23/2003	0.64
Summary for 17010215 (11 detail records)				*135.51*
				999843
HUC *17010301*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17010301PN020_02	Big Elk Creek - source to mouth	Siltation	2/22/2002	48.55
ID17010301PN020_03	Big Elk Creek - source to mouth	Siltation	2/22/2002	4.6

Basin				SIZE (Miles)
ID17010301PN036_02	Burnt Cabin Creek - source to mouth	Siltation	2/22/2002	12.99
ID17010301PN039_02	Copper Creek - source to mouth	Siltation	2/22/2002	18.88
ID17010301PN039_03	Copper Creek - source to mouth	Siltation	2/22/2002	2.75
ID17010301PN029_02	Cougar Gulch - source to mouth	Nutrients	2/22/2002	18.57
	Cougar Gulch - source to mouth	Siltation	2/22/2002	
ID17010301PN029_03	Cougar Gulch - source to mouth	Nutrients	2/22/2002	6.7
	Cougar Gulch - source to mouth	Nutrients	2/22/2002	
ID17010301PN007_02	Eagle Creek - source to mouth	Cadmium	2/22/2002	16.3
	Eagle Creek - source to mouth	Metals	2/22/2002	
	Eagle Creek - source to mouth	Siltation	2/22/2002	
	Eagle Creek - source to mouth	Zinc	2/22/2002	
ID17010301PN007_03	Eagle Creek - source to mouth	Siltation	2/22/2002	1.02
ID17010301PN011_02	Falls Creek - source to mouth	Siltation	2/22/2002	8.09
ID17010301PN014_02	Jordan Creek - source to mouth	Siltation	2/22/2002	20.6
ID17010301PN030_02	Little North Fork Coeur d'Alene River - source to mouth	Siltation	2/22/2002	86.49
ID17010301PN030_03	Little North Fork Coeur d'Alene River - source to mouth	Siltation	2/22/2002	11.26
ID17010301PN030_04	Little North Fork Coeur d'Alene River - source to mouth	Siltation	2/22/2002	23.85
ID17010301PN009_02	Lost Creek - source to mouth	Siltation	2/22/2002	19.16
ID17010301PN009_03	Lost Creek - source to mouth	Siltation	2/22/2002	1.28
ID17010301PN013_02	North Fork Coeur d'Alene River - Jordan Creek to Yellow Dog	Siltation	2/22/2002	41.51
ID17010301PN013_04	North Fork Coeur d'Alene River - Jordan Creek to Yellow Dog	Siltation	2/22/2002	6.83
ID17010301PN013_05	North Fork Coeur d'Alene River - Jordan Creek to Yellow Dog	Siltation	2/22/2002	11.87
ID17010301PN001_05	North Fork Coeur d'Alene River - Yellow Dog Creek to mouth	Siltation	2/22/2002	41.04
ID17010301PN004_02	Prichard Creek - Butte Creek to mouth	Siltation	2/22/2002	4.17
ID17010301PN004_03	Prichard Creek - Butte Creek to mouth	Siltation	2/22/2002	5.45
ID17010301PN004_04	Prichard Creek - Butte Creek to mouth	Siltation	2/22/2002	2.94
ID17010301PN005_02	Prichard Creek - source to Butte Creek	Siltation	2/22/2002	24.34

Basin				SIZE (Miles)
ID17010301PN005_03	Prichard Creek - source to Butte Creek	Siltation	2/22/2002	1.98
ID17010301PN010_03	Shoshone Creek - Falls Creek to mouth	Siltation	2/22/2002	6.76
ID17010301PN012_02	Shoshone Creek - source to Falls Creek	Siltation	2/22/2002	46.84
ID17010301PN012_03	Shoshone Creek - source to Falls Creek	Siltation	2/22/2002	7.07
ID17010301PN028_03	Steamboat Creek - source to mouth	Siltation	2/22/2002	6.86
ID17010301PN008_02	West Fork Eagle Creek - source to mouth	Metals	2/22/2002	14.68
	West Fork Eagle Creek - source to mouth	Siltation	2/22/2002	
ID17010301PN024_02	Yellow Dog Creek - source to mouth	Siltation	2/22/2002	12.2
	Summary for 17010301 (37 detail records)			*624.47*
				999310

HUC 17010302	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17010302PN014_02	Canyon Creek - from and including Gorge Gulch to mouth	Metals	8/18/2000	8.64
ID17010302PN004_02	East Fork Pine Creek - source to mouth	Metals	8/18/2000	22.55
ID17010302PN004_03	East Fork Pine Creek - source to mouth	Metals	8/18/2000	4
ID17010302PN006_02	Government Gulch - source to mouth	Metals	8/18/2000	3.54
ID17010302PN018_02	Moon Creek - source to mouth	Metals	8/18/2000	4.64
ID17010302PN018_03	Moon Creek - source to mouth	Metals	8/18/2000	1.76
ID17010302PN016_02	Ninemile Creek - from and including East Fork Ninemile Creek	Metals	8/18/2000	9.32
ID17010302PN017_02	Ninemile Creek - source to East Fork Ninemile Creek	Metals	8/18/2000	1.79
ID17010302PN002_04	Pine Creek - East Fork Pine Creek to mouth	Metals	8/18/2000	5.31
ID17010302PN001_02	South Fork Coeur d'Alene River - Canyon Creek to mouth	Metals	8/18/2000	62.8
ID17010302PN001_03	South Fork Coeur d'Alene River - Canyon Creek to mouth	Metals	8/18/2000	8.46
ID17010302PN001_04	South Fork Coeur d'Alene River - Canyon Creek to mouth	Metals	8/18/2000	10
ID17010302PN001_05	South Fork Coeur d'Alene River - Canyon Creek to mouth	Metals	8/18/2000	2.28
	Summary for 17010302 (13 detail records)			*145.08*
				999824

HUC 17010303	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17010303PN030_02	Cedar Creek - source to mouth	Siltation	7/14/2000	20.59
ID17010303PN030_03	Cedar Creek - source to mouth	Siltation	7/14/2000	1.46

Basin				SIZE (Miles)
ID17010303PN007_06	Coeur d'Alene River - Latour Creek to mouth	Metals	8/18/2000	29.41
ID17010303PN016_06	Coeur d'Alene River - South Fork Coeur d'Alene River to Lato	Metals	8/18/2000	8.28
ID17010303PN002_02	Cougar Creek - source to mouth	Siltation	7/14/2000	13.52
ID17010303PN003_02	Kid Creek - source to mouth	Siltation	7/14/2000	4.08
ID17010303PN015_02	Latour Creek - source to mouth	Siltation	7/14/2000	50.43
ID17010303PN031_02	Marie Creek - source to mouth	Siltation	7/14/2000	19.67
ID17010303PN004_02	Mica Creek - source to mouth	Bacteria	7/14/2000	20.29
	Mica Creek - source to mouth	Siltation	7/14/2000	
ID17010303PN004_03	Mica Creek - source to mouth	Bacteria	7/14/2000	0.78
	Mica Creek - source to mouth	Siltation	7/14/2000	
ID17010303PN029_02	Wolf Lodge Creek - source to mouth	Siltation	7/14/2000	30.13
ID17010303PN029_03	Wolf Lodge Creek - source to mouth	Siltation	7/14/2000	3.72
	Summary for 17010303 (14 detail records)			*223.43 000149*
HUC 17010305	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17010305PN004_02	Spokane River - Coeur d'Alene Lake to Post Falls Dam	Metals	8/18/2000	11.67
	Summary for 17010305 (1 detail record)			*11.670 000076*
	Summary for Panhandle (100 detail records)			*1400.4 299915*

Salmon

HUC 17060103	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17060103SL016_02	Tammany Creek - source to Unnamed Tributary (T34N, R05W, Sec	Siltation	2/14/2002	18.64
ID17060103SL014_02	Tammany Creek - WBID 015 to unnamed tributary	Siltation	2/14/2002	14.56
ID17060103SL014_03	Tammany Creek - Unnamed Tributary to mouth	Siltation	2/14/2002	4.27
	Summary for 17060103 (3 detail records)			*37.469 999790*
HUC 17060201	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17060201SL009_03	Challis Creek - Bear Creek to Darling Creek	Siltation	3/19/2003	4.94
ID17060201SL009_04	Challis Creek - Bear Creek to Darling Creek	Siltation	3/19/2003	1.5
ID17060201SL007_04	Challis Creek - Darling Creek to mouth	Siltation	3/19/2003	3.42

Basin				SIZE (Miles)
Summary for 17060201 (3 detail records)				*9.8600 001335*
HUC 17060202	***Segment Name***	***CAUSE NAME:***	***APROVAL DATE:***	
ID17060202SL008_04	Pahsimeroi River - Big Creek to Furley Road (T15S, R22E)	Siltation	12/6/2001	3.18
	Pahsimeroi River - Big Creek to Furley Road (T15S, R22E)	Thermal modifications	12/6/2001	
ID17060202SL002_02	Pahsimeroi River - Meadow Creek to Patterson Creek	Siltation	12/6/2001	50.12
	Pahsimeroi River - Meadow Creek to Patterson Creek	Thermal modifications	12/6/2001	
ID17060202SL002_04	Pahsimeroi River - Meadow Creek to Patterson Creek	Siltation	12/6/2001	3.04
	Pahsimeroi River - Meadow Creek to Patterson Creek	Thermal modifications	12/6/2001	
ID17060202SL002_05	Pahsimeroi River - Meadow Creek to Patterson Creek	Siltation	12/6/2001	10.21
	Pahsimeroi River - Meadow Creek to Patterson Creek	Thermal modifications	12/6/2001	
ID17060202SL001_05	Pahsimeroi River - Patterson Creek to mouth	Siltation	12/6/2001	14.22
	Pahsimeroi River - Patterson Creek to mouth	Thermal modifications	12/6/2001	
Summary for 17060202 (10 detail records)				*161.53 999853*
HUC 17060203	***Segment Name***	***CAUSE NAME:***	***APROVAL DATE:***	
ID17060203SL047_02	Salmon River - Iron Creek to Twelvemile Creek	Nutrients	7/2/2001	68.74
Summary for 17060203 (1 detail record)				*68.739 997863*
HUC 17060204	***Segment Name***	***CAUSE NAME:***	***APROVAL DATE:***	
ID17060204SL064a_02	Bohannon Creek - diversion (T21N, R23E, Sec. 22) to mouth	Siltation	3/14/2000	1.36
ID17060204SL023_02	East Fork Hayden Creek - source to mouth	Siltation	3/14/2000	11.34
ID17060204SL043_03	Eighteenmile Creek - Divide Creek to Hawley Creek	Siltation	3/14/2000	5.96
ID17060204SL045_02	Eighteenmile Creek - source to Divide Creek	Siltation	3/14/2000	29.68
ID17060204SL065b_02	Geertson Creek - source to diversion (T21N, R23E, Sec. 20)	Siltation	5/15/2000	14.71
ID17060204SL066b_02	Kirtley Creek	Siltation	5/15/2000	19.41
ID17060204SL025_05	Lemhi River - confluence of Big and Little Eightmile Creeks	Bacteria	3/14/2000	5.86
ID17060204SL030_04	Lemhi River - confluence of Eighteenmile Creek and Texas Cre	Bacteria	3/14/2000	6.56
ID17060204SL030_05	Lemhi River - confluence of Eighteenmile Creek and Texas Cre	Bacteria	3/14/2000	10.39
ID17060204SL005_06	Lemhi River - Hayden Creek to Kenney Creek	Bacteria	3/14/2000	12.77

Basin				SIZE (Miles)
ID17060204SL001_06	Lemhi River - Kenney Creek to mouth	Bacteria	3/14/2000	24.63
ID17060204SL024_05	Lemhi River - Peterson Creek to Hayden Creek	Bacteria	3/14/2000	9.6
ID17060204SL007a_03	McDevitt Creek - diversion (T19N, R23E, Sec. 36) to mouth	Siltation	3/14/2000	2.35
ID17060204SL007b_03	McDevitt Creek - source to diversion (T19N, R23E, Sec. 36)	Siltation	3/14/2000	4.44
ID17060204SL062a_02	Sandy Creek - diversion (T20N, R24E, Sec. 17) to mouth	Siltation	3/14/2000	2.1
ID17060204SL063_02	Wimpey Creek - source to mouth	Siltation	3/14/2000	19.66
	Summary for 17060204 (16 detail records)			*180.82* *000052*
HUC *17060207*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17060207SL067_05	Crooked Creek - Lake Creek to mouth	Thermal modifications	1/9/2003	8.27
ID17060207SL068_02	Crooked Creek - source to unnamed tributary	Thermal modifications	1/9/2003	41.74
ID17060207SL068_03	Crooked Creek - unnamed tributary to Big Creek	Thermal modifications	1/9/2003	2.5
ID17060207SL068_04	Crooked Creek - Big Creek to Lake Creek	Thermal modifications	1/9/2003	1.55
	Summary for 17060207 (4 detail records)			*54.060* *002088*
HUC *17060208*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17060208SL001_06	South Fork Salmon River - East Fork Salmon River to mouth	Siltation	1/31/1992	36.85
ID17060208SL010_02	South Fork Salmon River - 1st and 2nd order	Siltation	1/31/1992	135.11
ID17060208SL010_03	South Fork Salmon River - 3rd order	Siltation	1/31/1992	13.7
ID17060208SL010_04	South Fork Salmon River - 4th order	Siltation	1/31/1992	26.77
ID17060208SL010_05	South Fork Salmon River - 5th order	Siltation	1/31/1992	8.21
	Summary for 17060208 (5 detail records)			*220.63* *999938*
	Summary for Salmon (42 detail records)			*733.12* *999832*

Southwest

HUC *17050102*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050102SW009_06	Bruneau River - 6th order	Phosphorus	3/13/2001	16.92
ID17050102SW028_04	Clover Creek (East Fork Bruneau River) - 4th order	Bacteria	3/13/2001	29.63
ID17050102SW028_05	Clover Creek (East Fork Bruneau River) - 5th order	Bacteria	3/13/2001	24.74
ID17050102SW002_05	Jacks Creek - 5th order	Bacteria	3/13/2001	12.28

Basin				SIZE (Miles)
ID17050102SW002_05	Jacks Creek - 5th order	Organic enrichment/Low DO	3/13/2001	12.28
	Jacks Creek - 5th order	Phosphorus	3/13/2001	
	Jacks Creek - 5th order	Siltation	3/13/2001	
ID17050102SW008_04	Sugar Valley Creek - source to mouth	Bacteria	3/13/2001	13.75
	Sugar Valley Creek - source to mouth	Organic enrichment/Low DO	3/13/2001	
	Sugar Valley Creek - source to mouth	Phosphorus	3/13/2001	
	Sugar Valley Creek - source to mouth	Siltation	3/13/2001	
ID17050102SW031_03	Three Creek - 3rd order	Siltation	3/13/2001	7
	Summary for 17050102 (12 detail records)			*182.40*
				999794

HUC 17050104	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17050104SW013_03	Blue Creek - source to Blue Creek Reservoir Dam	Siltation	3/12/2003	15.45
ID17050104SW029_03	Camas Creek - 3rd order	Thermal modifications	3/12/2003	7.31
ID17050104SW032_03	Castle Creek - 3rd order	Siltation	3/12/2003	6.02
	Castle Creek - 3rd order	Thermal modifications	3/12/2003	
ID17050104SW026_04	Deep Creek - 4th order	Organic enrichment/Low DO	3/12/2003	15.54
	Deep Creek - 4th order	Siltation	3/12/2003	
	Deep Creek - 4th order	Thermal modifications	3/12/2003	
ID17050104SW026_05	Deep Creek - 5th order	Organic enrichment/Low DO	3/12/2003	24.9
	Deep Creek - 5th order	Siltation	3/12/2003	
	Deep Creek - 5th order	Thermal modifications	3/12/2003	
ID17050104SW031_02	Nickel Creek - source to mouth	Siltation	3/12/2003	77.01
ID17050104SW028_02	Pole Creek - 1st and 2nd order	Thermal modifications	3/12/2003	71.29
ID17050104SW028_03	Pole Creek - 3rd order	Thermal modifications	3/12/2003	6.4
ID17050104SW028_04	Pole Creek - 4th order	Thermal modifications	3/12/2003	12.13
ID17050104SW034_02	Red Canyon Creek - 1st and 2nd order	Thermal modifications	3/12/2003	77.67
ID17050104SW034_03	Red Canyon Creek - 3rd order	Thermal modifications	3/12/2003	10.09
ID17050104SW034_04	Red Canyon Creek - 4th order	Thermal modifications	3/12/2003	2.96

Basin				SIZE (Miles)
Summary for 17050104 (17 detail records)				*413.67 000007*
HUC 17050105	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050105SW001_06	South Fork Owyhee River - Idaho/Nevada border to mouth	Thermal modifications	3/2/2000	19.62
ID17050105SW001_07	South Fork Owyhee River - 7th order	Thermal modifications	3/2/2000	12.86
Summary for 17050105 (2 detail records)				*32.480 000495*
HUC 17050107	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050107SW011_02	Cabin Creek - source to mouth	Thermal modifications	2/23/2000	36.08
ID17050107SW012_02	Juniper Creek - source to mouth	Thermal modifications	2/23/2000	24.49
ID17050107SW012_03	Juniper Creek - source to mouth	Thermal modifications	2/23/2000	6.87
ID17050107SW004_02	Middle Fork Owyhee River - source to Idaho/Oregon border	Thermal modifications	2/22/2000	48.03
ID17050107SW004_03	Middle Fork Owyhee River - source to Idaho/Oregon border	Thermal modifications	2/22/2000	4.59
ID17050107SW010_02	Noon Creek - source to mouth	Thermal modifications	2/23/2000	23.96
ID17050107SW008_02	North Fork Owyhee River - 1st and 2nd	Thermal modifications	2/22/2000	39.83
ID17050107SW008_03	North Fork Owyhee River - 3rd order	Thermal modifications	2/22/2000	6.52
ID17050107SW008_04	North Fork Owyhee River - 4th order	Thermal modifications	2/22/2000	2.32
ID17050107SW008_05	North Fork Owyhee River - 5th order	Thermal modifications	2/22/2000	6.38
ID17050107SW009_02	Pleasant Valley Creek - source to mouth	Thermal modifications	2/23/2000	37.73
ID17050107SW009_03	Pleasant Valley Creek - source to mouth	Thermal modifications	2/23/2000	5.68
Summary for 17050107 (12 detail records)				*242.48 000073*
HUC 17050114	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050114SW011a_06	Boise River - Diversion Dam to river mile 50 (T04N, R02W, Se	Siltation	1/25/2000	32.15
ID17050114SW005_06	Boise River - river mile 50 (T04N, R02W, Sec. 32) to Indian	Bacteria	1/25/2000	44.1
	Boise River - river mile 50 (T04N, R02W, Sec. 32) to Indian	Siltation	1/25/2000	
ID17050114SW001_06	Boise River- Indian Creek to mouth	Bacteria	1/25/2000	45.43
	Boise River- Indian Creek to mouth	Siltation	1/25/2000	
Summary for 17050114 (5 detail records)				*211.20 999908*

Basin				SIZE (Miles)
HUC 17050121	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050121SW001_04	Middle Fork Payette River - 4th order	Siltation	7/20/2000	13.2
	Summary for 17050121 (1 detail record)			*13.199 999809*
HUC 17050122	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050122SW015_03	Bissel Creek - 3rd order	Bacteria	10/24/2003	9.64
	Bissel Creek - 3rd order	Siltation	10/24/2003	
ID17050122SW001_06	Payette River - Black Canyon Reservoir Dam to mouth	Bacteria	5/31/2000	66.75
	Summary for 17050122 (3 detail records)			*86.030 000686*
HUC 17050123	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17050123SW011_02	Boulder Creek - source to Cascade Reservoir	Phosphorus	5/13/1996	63.64
ID17050123SW011_03	Boulder Creek - source to Cascade Reservoir	Phosphorus	5/13/1996	11.55
ID17050123SW008_05	Gold Fork - 5th order	Phosphorus	5/13/1996	2.61
	Gold Fork - 5th order	Siltation	5/13/1996	
ID17050123SW012_03	Lake Fork - Little Payette Lake to Cascade Reservoir	Nutrients	4/19/1999	19.53
	Lake Fork - Little Payette Lake to Cascade Reservoir	Siltation	4/19/1999	
ID17050123SW015_03	Mud Creek - source to Cascade Reservoir	Phosphorus	5/13/1996	7.16
	Summary for 17050123 (7 detail records)			*126.63 000059*
	Summary for Southwest (59 detail records)			*1308.1 099994*

Upper Snake

HUC 17040104	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17040104SK002_02	Antelope Creek - source to mouth	Siltation	2/20/2001	70.51
ID17040104SK002_03	Antelope Creek - source to mouth	Siltation	2/20/2001	6.03
ID17040104SK013_02	Bear Creek - source to North Fork Bear Creek	Siltation	2/20/2001	54.72
ID17040104SK013_03	Bear Creek - source to North Fork Bear Creek	Siltation	2/20/2001	6.74
	Summary for 17040104 (4 detail records)			*138.00 000333*
HUC 17040204	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	

Basin				SIZE (Miles)
ID17040204SK058_03	Badger Creek - diversion (NW ¼, SW ¼, Sec. 9, T6N, R45E) to	Siltation	2/26/2003	6.06
ID17040204SK057_03	Badger Creek - spring (NW ¼, SW ¼, Sec. 26 T7N, R44E) to mou	Siltation	2/26/2003	4.69
ID17040204SK045_02	Darby Creek - Idaho/Wyoming border to SW ¼, SE ¼, Sec. 10, T	Siltation	2/26/2003	9.3
ID17040204SK044_02	Darby Creek - SW ¼, SE ¼, S10, T4N, R45E, to mouth, includin	Siltation	2/26/2003	4.14
ID17040204SK042_02	Fox Creek - Idaho/Wyoming border to North Fox Creek Canal (N	Siltation	9/15/2003	0.91
ID17040204SK041_02	Fox Creek - North Fox Creek Canal (NW ¼, Sec 29 T4N, R46E) t	Siltation	9/15/2003	7.99
ID17040204SK025_02	Mahogany Creek - source to pipeline diversion (NE ¼, Sec. 27	Siltation	2/26/2003	7.01
ID17040204SK002_05	North Fork Teton River - Teton River Forks to Henrys Fork	Nutrients	2/26/2003	17
	North Fork Teton River - Teton River Forks to Henrys Fork	Siltation	2/26/2003	
ID17040204SK018_03	Packsaddle Creek - diversion (NE ¼ Sec. 8, T5N, R44E) to mou	Siltation	2/26/2003	4.45
ID17040204SK019_02	Packsaddle Creek - source to diversion (NE ¼ Sec. 8, T5N, R4	Siltation	2/26/2003	14.79
ID17040204SK053_03	South Leigh Creek - Idaho/Wyoming border to SE ¼, NE ¼, Sec.	Siltation	2/26/2003	9.7
ID17040204SK052_03	South Leigh Creek - SE ¼, NE ¼, Sec. 1 T5N, R44E to mouth	Siltation	2/26/2003	1.8
ID17040204SK054_03	Spring Creek - North Leigh Creek to mouth	Siltation	2/26/2003	13.17
ID17040204SK056_02	Spring Creek - source to North Leigh Creek, including spring	Siltation	2/26/2003	24.2
ID17040204SK056_03	Spring Creek - source to North Leigh Creek, including spring	Siltation	2/26/2003	1.44
ID17040204SK017_04	Teton River - Cache Bridge (NW ¼, NE ¼, Sec. 1, T5N, R44E) t	Nutrients	2/26/2003	13.92
	Teton River - Cache Bridge (NW ¼, NE ¼, Sec. 1, T5N, R44E) t	Siltation	2/26/2003	
ID17040204SK014_04	Teton River - Felt Dam outlet to Milk Creek	Nutrients	2/26/2003	1.66
	Teton River - Felt Dam outlet to Milk Creek	Siltation	2/26/2003	
ID17040204SK015_04	Teton River - Felt Dam pool	Nutrients	2/26/2003	4.12
	Teton River - Felt Dam pool	Siltation	2/26/2003	
ID17040204SK020_04	Teton River - Teton Creek to Cache Bridge (NW ¼, NE ¼, Sec.	Siltation	2/26/2003	13.71
ID17040204SK026_02	Teton River - Trail Creek to Teton Creek	Siltation	2/26/2003	22.31
ID17040204SK026_04	Teton River - Trail Creek to Teton Creek	Siltation	2/26/2003	6.45
	Summary for 17040204 (25 detail records)			*225.51*
				999968

HUC 17040207	Segment Name	CAUSE NAME:	APROVAL DATE:

Basin				SIZE (Miles)
ID17040207SK023_02b	upper Angus Creek	Siltation	4/3/2002	7.78
ID17040207SK023_04	Angus Creek - source to mouth	Siltation	4/3/2002	3.46
ID17040207SK019_02b	Bacon Creek	Siltation	4/3/2002	3.5
ID17040207SK019_03	Bacon Creek	Siltation	4/3/2002	2.05
ID17040207SK019_04	Bacon Creek - source to mouth	Siltation	4/3/2002	4.62
ID17040207SK002_05	Blackfoot River - Blackfoot Reservoir Dam to Fort Hall Main	Nutrients	4/3/2002	65.53
	Blackfoot River - Blackfoot Reservoir Dam to Fort Hall Main	Siltation	4/3/2002	
ID17040207SK010_04	Blackfoot River - confluence of Lanes and Diamond Creeks to	Siltation	4/3/2002	13.82
ID17040207SK010_05	Blackfoot River - confluence of Lanes and Diamond Creeks to	Siltation	4/3/2002	20.67
ID17040207SK026_02	Brush Creek - source to mouth	Siltation	4/3/2002	54.54
ID17040207SK026_03	Brush Creek - source to mouth	Siltation	4/3/2002	13.35
ID17040207SK006_02	Corral Creek - source to mouth	Siltation	4/3/2002	40.65
ID17040207SK006_03	Corral Creek - source to mouth	Siltation	4/3/2002	9.22
ID17040207SK006_04	Corral Creek - source to mouth	Siltation	4/3/2002	6.59
ID17040207SK016_02e	upper Diamond Creek	Siltation	4/3/2002	4.43
ID17040207SK016_03	lower Diamond Creek	Siltation	4/3/2002	19.26
ID17040207SK016_03a	middle Diamond Creek	Siltation	4/3/2002	10.65
ID17040207SK013_02	Dry Valley Creek - source to mouth	Siltation	4/3/2002	21.3
ID17040207SK013_03	Dry Valley Creek - source to mouth	Siltation	4/3/2002	4.98
ID17040207SK007_02	Grizzly Creek - source to mouth	Siltation	4/3/2002	16.74
ID17040207SK007_03	Grizzly Creek - source to mouth	Siltation	4/3/2002	4.54
ID17040207SK031_02	Jones Creek - source to mouth	Nutrients	4/3/2002	
ID17040207SK018_02	Lanes Creek - source to mouth	Siltation	4/3/2002	22.28
ID17040207SK018_02a	upper Lanes Creek	Siltation	4/3/2002	3.61
ID17040207SK018_02b	upper Daves Creek	Siltation	4/3/2002	3.03
ID17040207SK018_02e	Lanes Creek	Siltation	4/3/2002	3.12
ID17040207SK018_03	Lanes Creek	Siltation	4/3/2002	3.65

Basin				SIZE (Miles)
ID17040207SK018_04	Lanes Creek - source to mouth	Siltation	4/3/2002	9.41
ID17040207SK014_02	Maybe Creek - source to mouth	Siltation	4/3/2002	5.23
ID17040207SK025_02	Meadow Creek - source to Blackfoot Reservoir	Siltation	4/3/2002	75.53
ID17040207SK025_02c	Wham Creek	Siltation	4/3/2002	12.31
ID17040207SK025_03	Meadow Creek - source to Blackfoot Reservoir	Siltation	4/3/2002	7.18
ID17040207SK025_04	Meadow Creek - source to Blackfoot Reservoir	Siltation	4/3/2002	9.71
ID17040207SK022_02	Sheep Creek - source to mouth	Siltation	4/3/2002	13.49
ID17040207SK022_03	lower Sheep Creek	Siltation	4/3/2002	1.32
ID17040207SK022_03a	middle Sheep Creek	Siltation	4/3/2002	3.53
ID17040207SK012_02	Slug Creek - source to mouth	Siltation	4/3/2002	101.64
ID17040207SK012_03	Slug Creek - source to mouth	Siltation	4/3/2002	4.79
ID17040207SK012_04	Slug Creek - source to mouth	Siltation	4/3/2002	18.15
ID17040207SK011_03	Trail Creek - source to mouth	Siltation	4/3/2002	5.54
ID17040207SK011_03a	upper Trail Creek	Siltation	4/3/2002	1.08
ID17040207SK030_02	Wolverine Creek - source to mouth	Nutrients	4/3/2002	32.88
	Wolverine Creek - source to mouth	Siltation	4/3/2002	
ID17040207SK030_03	Wolverine Creek - source to mouth	Nutrients	4/3/2002	2.54
	Wolverine Creek - source to mouth	Siltation	4/3/2002	
	Summary for 17040207 (45 detail records)			*773.18* *999958*
HUC *17040208*	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17040208SK015_03	Birch Creek - source to mouth	Nutrients	4/18/2001	3.96
	Birch Creek - source to mouth	Siltation	4/18/2001	
ID17040208SK014_02b	Cherry Creek	Nutrients	4/18/2001	5.85
	Cherry Creek	Siltation	4/18/2001	
ID17040208SK014_03	Cherry Creek - source to mouth	Nutrients	4/18/2001	1.58
	Cherry Creek - source to mouth	Siltation	4/18/2001	
ID17040208SK014_04	lower Cherry Creek	Nutrients	4/18/2001	2.73

Basin				SIZE (Miles)
ID17040208SK014_04	lower Cherry Creek	Siltation	4/18/2001	2.73
ID17040208SK017_02d	Dempsey Creek	Siltation	4/18/2001	18.45
ID17040208SK017_03	lower Dempsey Creek	Siltation	4/18/2001	3.58
ID17040208SK010_02b	lower Garden Creek	Nutrients	4/18/2001	7.65
	lower Garden Creek	Siltation	4/18/2001	
ID17040208SK003_02a	upper Gibson Jack Creek	Siltation	4/18/2001	14.66
ID17040208SK009_02	lower Goodenough Creek	Siltation	4/18/2001	7.65
ID17040208SK009_02a	upper Goodenough Creek	Siltation	4/18/2001	
ID17040208SK011_03	lower Hawkins Creek	Nutrients	4/18/2001	9.09
	lower Hawkins Creek	Siltation	4/18/2001	
ID17040208SK006_03	upper middle Marsh Creek	Nutrients	4/18/2001	11.09
	upper middle Marsh Creek	Siltation	4/18/2001	
ID17040208SK006_04	lower Marsh Creek	Nutrients	4/18/2001	17.68
	lower Marsh Creek	Siltation	4/18/2001	
ID17040208SK006_04a	lower middle Marsh Creek	Nutrients	4/18/2001	19.77
	lower middle Marsh Creek	Siltation	4/18/2001	
ID17040208SK004_04	lower Mink Creek	Nutrients	4/18/2001	3.8
	lower Mink Creek	Siltation	4/18/2001	
ID17040208SK004_04a	Mink Creek	Nutrients	4/18/2001	1.52
	Mink Creek	Siltation	4/18/2001	
ID17040208SK022_02a	upper Pebble Creek/Big Canyon	Siltation	4/18/2001	9.23
ID17040208SK022_03	lower Pebble Creek	Siltation	4/18/2001	6.06
ID17040208SK024_03	lower Pocatello Creek	Siltation	4/18/2001	2.02
ID17040208SK024_03a	middle Pocatello Creek	Siltation	4/18/2001	
ID17040208SK016_02	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Bacteria	4/18/2001	156.67
	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Nutrients	4/18/2001	
	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Siltation	4/18/2001	

Basin				SIZE (Miles)
ID17040208SK016_03	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Bacteria	4/18/2001	66.37
	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Nutrients	4/18/2001	
	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Siltation	4/18/2001	
ID17040208SK016_04	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Bacteria	4/18/2001	2.82
	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Nutrients	4/18/2001	
	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek	Siltation	4/18/2001	
ID17040208SK001_05	Portneuf River - Marsh Creek to American Falls Reservoir	Bacteria	4/18/2001	28.79
	Portneuf River - Marsh Creek to American Falls Reservoir	Nutrients	4/18/2001	
	Portneuf River - Marsh Creek to American Falls Reservoir	Oil and grease	4/18/2001	
	Portneuf River - Marsh Creek to American Falls Reservoir	Siltation	4/18/2001	
ID17040208SK023_03	lower Rapid Creek	Siltation	4/18/2001	5.62
ID17040208SK021_03	lower Toponce Creek	Siltation	4/18/2001	4.24
ID17040208SK018_02	Twentyfourmile Creek - source to mouth	Siltation	4/18/2001	59.25
ID17040208SK018_02a	Twentyfour Mile Creek	Siltation	4/18/2001	1.18
ID17040208SK018_03a	Twentyfour Mile Creek	Siltation	4/18/2001	6.09
ID17040208SK007_02	lower Walker Creek	Siltation	4/18/2001	2.89
ID17040208SK007_02a	upper Walker Creek	Siltation	4/18/2001	10.72
Summary for 17040208 (51 detail records)				*1123.4*
				900087

HUC 17040209	Segment Name	CAUSE NAME:	APROVAL DATE:	
ID17040209SK010_03	East Fork Rock Creek - source to mouth	Siltation	10/11/2000	9.24
ID17040209SK008_04	Rock Creek - confluence of South and East Fork Rock Creeks t	Siltation	10/11/2000	13.24
ID17040209SK001_07	Snake River - Heyburn/Burley Bridge (T10S, R23E, Sec.17) to	Nutrients	6/28/2000	15.58
ID17040209SK002_07	Snake River - Minidoka Dam to Heyburn/Burley Bridge (T10S, R	Nutrients	6/28/2000	20.63
ID17040209SK005_07	Snake River - Raft River to Lake Walcott	Siltation	10/10/2002	4.57
ID17040209SK006_07	Snake River - Rock Creek to Raft River	Siltation	10/10/2002	13.14
ID17040209SK009_02	South Fork Rock Creek - source to mouth	Siltation	10/11/2000	246.4
ID17040209SK009_03	South Fork Rock Creek - source to mouth	Siltation	10/11/2000	4.01

Basin				SIZE (Miles)
ID17040209SK009_04	South Fork Rock Creek - source to mouth	Siltation	10/11/2000	20.13
	Summary for 17040209 (9 detail records)			*346.93*
				999242
HUC 17040212	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17040212SK033_02	Billingsley Creek - source to mouth	Bacteria	8/25/2000	8.13
	Billingsley Creek - source to mouth	Other	8/23/1993	
	Billingsley Creek - source to mouth	Phosphorus	8/25/2000	
	Billingsley Creek - source to mouth	Siltation	8/25/2000	
	Billingsley Creek - source to mouth	Suspended solids	8/23/1993	
ID17040212SK012_02	Cedar Draw - source to mouth	Bacteria	8/25/2000	17.97
	Cedar Draw - source to mouth	Phosphorus	8/25/2000	
	Cedar Draw - source to mouth	Siltation	8/25/2000	
ID17040212SK012_03	Cedar Draw - source to mouth	Bacteria	8/25/2000	2.93
	Cedar Draw - source to mouth	Phosphorus	8/25/2000	
	Cedar Draw - source to mouth	Siltation	8/25/2000	
ID17040212SK034_04	Clover Creek - Pioneer Reservoir Dam to mouth	Bacteria	8/25/2000	9.96
	Clover Creek - Pioneer Reservoir Dam to mouth	Phosphorus	8/25/2000	
	Clover Creek - Pioneer Reservoir Dam to mouth	Siltation	8/25/2000	
ID17040212SK014_02	Cottonwood Creek - source to mouth	Bacteria	8/25/2000	37.64
	Cottonwood Creek - source to mouth	Phosphorus	8/25/2000	
	Cottonwood Creek - source to mouth	Siltation	8/25/2000	
ID17040212SK014_04	Cottonwood Creek - source to mouth	Bacteria	8/25/2000	6.9
	Cottonwood Creek - source to mouth	Phosphorus	8/25/2000	
	Cottonwood Creek - source to mouth	Siltation	8/25/2000	
ID17040212SK008_02	Deep Creek - High Line Canal to mouth	Bacteria	8/25/2000	15.81
	Deep Creek - High Line Canal to mouth	Phosphorus	8/25/2000	
	Deep Creek - High Line Canal to mouth	Siltation	8/25/2000	
ID17040212SK008_03	Deep Creek - High Line Canal to mouth	Bacteria	8/25/2000	9.69

Basin				SIZE (Miles)
ID17040212SK008_03	Deep Creek - High Line Canal to mouth	Phosphorus	8/25/2000	9.69
	Deep Creek - High Line Canal to mouth	Siltation	8/25/2000	
ID17040212SK022_02	Dry Creek - source to mouth	Bacteria	8/25/2000	45.86
	Dry Creek - source to mouth	Phosphorus	8/25/2000	
	Dry Creek - source to mouth	Siltation	8/25/2000	
ID17040212SK022_03	Dry Creek - source to mouth	Bacteria	8/25/2000	9.85
	Dry Creek - source to mouth	Phosphorus	8/25/2000	
	Dry Creek - source to mouth	Siltation	8/25/2000	
ID17040212SK015_02	McMullen Creek - source to mouth	Bacteria	8/25/2000	50.02
	McMullen Creek - source to mouth	Phosphorus	8/25/2000	
	McMullen Creek - source to mouth	Siltation	8/25/2000	
ID17040212SK015_03	McMullen Creek - source to mouth	Bacteria	8/25/2000	9.41
	McMullen Creek - source to mouth	Phosphorus	8/25/2000	
	McMullen Creek - source to mouth	Siltation	8/25/2000	
ID17040212SK010_02	Mud Creek - Deep Creek Road (T09S, R14E) to mouth	Bacteria	8/25/2000	7.39
	Mud Creek - Deep Creek Road (T09S, R14E) to mouth	Phosphorus	8/25/2000	
	Mud Creek - Deep Creek Road (T09S, R14E) to mouth	Siltation	8/25/2000	
ID17040212SK010_03	Mud Creek - Deep Creek Road (T09S, R14E) to mouth	Bacteria	8/25/2000	1.07
	Mud Creek - Deep Creek Road (T09S, R14E) to mouth	Phosphorus	8/25/2000	
	Mud Creek - Deep Creek Road (T09S, R14E) to mouth	Siltation	8/25/2000	
ID17040212SK011_02	Mud Creek - source to Deep Creek Road (T09S, R14E)	Bacteria	8/25/2000	5.4
	Mud Creek - source to Deep Creek Road (T09S, R14E)	Phosphorus	8/25/2000	
	Mud Creek - source to Deep Creek Road (T09S, R14E)	Siltation	8/25/2000	
ID17040212SK016_04	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R	Bacteria	8/25/2000	8.31
	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R	Phosphorus	8/25/2000	
	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R	Siltation	8/25/2000	
ID17040212SK013_04	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth	Bacteria	8/25/2000	4.63

Basin				SIZE (Miles)
ID17040212SK013_04	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth	Phosphorus	8/25/2000	4.63
	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth	Siltation	8/25/2000	
ID17040212SK013_05	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth	Bacteria	8/25/2000	20.11
	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth	Phosphorus	8/25/2000	
	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth	Siltation	8/25/2000	
ID17040212SK005_02	Snake River - Box Canyon Creek to Lower Salmon Falls	Bacteria	8/25/2000	17.39
	Snake River - Box Canyon Creek to Lower Salmon Falls	Phosphorus	8/25/2000	
	Snake River - Box Canyon Creek to Lower Salmon Falls	Siltation	8/25/2000	
ID17040212SK005_07	Snake River - Box Canyon Creek to Lower Salmon Falls	Phosphorus	8/25/2000	16.51
	Snake River - Box Canyon Creek to Lower Salmon Falls	Siltation	8/25/2000	
ID17040212SK001_04	Snake River - Lower Salmon Falls to Clover Creek	Bacteria	8/25/2000	0.19
	Snake River - Lower Salmon Falls to Clover Creek	Phosphorus	8/25/2000	
	Snake River - Lower Salmon Falls to Clover Creek	Siltation	8/25/2000	
ID17040212SK001_07	Snake River - Lower Salmon Falls to Clover Creek	Phosphorus	8/25/2000	26.62
	Snake River - Lower Salmon Falls to Clover Creek	Siltation	8/25/2000	
ID17040212SK020_07	Snake River - Milner Dam to Twin Falls	Phosphorus	8/25/2000	21.29
	Snake River - Milner Dam to Twin Falls	Siltation	8/25/2000	
ID17040212SK007_02	Snake River - Rock Creek to Box Canyon Creek	Bacteria	8/25/2000	15.68
	Snake River - Rock Creek to Box Canyon Creek	Phosphorus	8/25/2000	
	Snake River - Rock Creek to Box Canyon Creek	Siltation	8/25/2000	
ID17040212SK007_07	Snake River - Rock Creek to Box Canyon Creek	Phosphorus	8/25/2000	18.3
	Snake River - Rock Creek to Box Canyon Creek	Siltation	8/25/2000	
ID17040212SK019_07	Snake River - Twin Falls to Rock Creek	Phosphorus	8/25/2000	11.87
	Snake River - Twin Falls to Rock Creek	Siltation	8/25/2000	
ID17040212SK031_02	Thousand Springs	Phosphorus	8/25/2000	4.6
	Thousand Springs	Siltation	8/25/2000	
ID17040212SK000_02	Unclassified Waters in CU 17040212	Bacteria	8/25/2000	392.31

Basin				SIZE (Miles)
ID17040212SK000_02	Unclassified Waters in CU 17040212	Phosphorus	8/25/2000	392.31
	Unclassified Waters in CU 17040212	Siltation	8/25/2000	
ID17040212SK027_02	Vinyard Creek - Vinyard Lake to mouth	Phosphorus	8/25/2000	10.81
	Vinyard Creek - Vinyard Lake to mouth	Siltation	8/25/2000	
ID17040212SK023_02	West Fork Dry Creek - source to mouth	Bacteria	8/25/2000	10.72
	West Fork Dry Creek - source to mouth	Phosphorus	8/25/2000	
	West Fork Dry Creek - source to mouth	Siltation	8/25/2000	
	Summary for 17040212 (85 detail records)			*2358.3 700000*
HUC 17040217	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17040217SK007_04	Little Lost River - Badger Creek to Big Spring Creek	Siltation	9/29/2000	14.14
ID17040217SK002_05	Little Lost River - Big Spring Creek to canal (T06N, R28E)	Siltation	9/29/2000	5.77
ID17040217SK010_04	Little Lost River - confluence of Summit and Sawmill Creeks	Siltation	9/29/2000	8.56
ID17040217SK009_04	Little Lost River - Wet Creek to Badger Creek	Siltation	9/29/2000	8.89
ID17040217SK014_04	Sawmill Creek - confluence of Timber Creek and Main Fork to	Siltation	9/29/2000	7.65
ID17040217SK012_04	Sawmill Creek - Warm Creek to mouth	Siltation	9/29/2000	8.13
ID17040217SK024_02	Wet Creek - source to Squaw Creek	Siltation	9/29/2000	53.22
ID17040217SK024_03	Wet Creek - source to Squaw Creek	Siltation	9/29/2000	5.8
ID17040217SK022_03	Wet Creek - Squaw Creek to mouth	Siltation	9/29/2000	8.36
	Summary for 17040217 (9 detail records)			*120.52 000236*
HUC 17040219	**Segment Name**	**CAUSE NAME:**	**APROVAL DATE:**	
ID17040219SK002_06	Big Wood River - Magic Reservoir Dam to mouth	Bacteria	5/15/2002	62.47
	Big Wood River - Magic Reservoir Dam to mouth	Nutrients	5/15/2002	
	Big Wood River - Magic Reservoir Dam to mouth	Siltation	5/15/2002	
ID17040219SK004_05	Big Wood River - Seamans Creek to Magic Reservoir	Nutrients	5/15/2002	39.46
	Big Wood River - Seamans Creek to Magic Reservoir	Siltation	5/15/2002	
ID17040219SK018_04	Big Wood River - source to North Fork Big Wood River	Nutrients	5/15/2002	13.06
	Big Wood River - source to North Fork Big Wood River	Siltation	5/15/2002	

Basin				SIZE (Miles)
ID17040219SK027_02	Croy Creek - source to mouth	Nutrients	5/15/2002	37.34
	Croy Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK027_03	Croy Creek - source to mouth	Nutrients	5/15/2002	8.36
	Croy Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK016_02	Eagle Creek - source to mouth	Nutrients	5/15/2002	12.78
	Eagle Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK016_03	Eagle Creek - source to mouth	Nutrients	5/15/2002	1.56
	Eagle Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK011_02	East Fork Wood River - source to Hyndman Creek	Nutrients	5/15/2002	40.69
	East Fork Wood River - source to Hyndman Creek	Siltation	5/15/2002	
ID17040219SK011_03	East Fork Wood River - source to Hyndman Creek	Nutrients	5/15/2002	9.66
	East Fork Wood River - source to Hyndman Creek	Siltation	5/15/2002	
ID17040219SK025_02	Greenhorn Creek - source to mouth	Nutrients	5/15/2002	29.15
	Greenhorn Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK025_03	Greenhorn Creek - source to mouth	Nutrients	5/15/2002	4.48
	Greenhorn Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK015_03	Lake Creek - source to mouth	Nutrients	5/15/2002	6.98
ID17040219SK001_06	Malad River - confluence of Black Canyon Creek and Big Wood	Bacteria	5/15/2002	17.57
	Malad River - confluence of Black Canyon Creek and Big Wood	Nutrients	5/15/2002	
	Malad River - confluence of Black Canyon Creek and Big Wood	Siltation	5/15/2002	
ID17040219SK008_02	Quigley Creek - source to mouth	Nutrients	5/15/2002	15.9
	Quigley Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK028_02	Rock Creek - source to mouth	Nutrients	5/15/2002	39.41
	Rock Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK028_03	Rock Creek - source to mouth	Bacteria	5/15/2002	9.23
	Rock Creek - source to mouth	Nutrients	5/15/2002	
	Rock Creek - source to mouth	Siltation	5/15/2002	

Basin				SIZE (Miles)
ID17040219SK005_05	Seamans Creek - Slaughterhouse Creek to mouth	Nutrients	5/15/2002	5.62
	Seamans Creek - Slaughterhouse Creek to mouth	Siltation	5/15/2002	
ID17040219SK006_02	Seamans Creek - source to and including Slaughterhouse Creek	Nutrients	5/15/2002	40.3
	Seamans Creek - source to and including Slaughterhouse Creek	Siltation	5/15/2002	
ID17040219SK006_03	Seamans Creek - source to and including Slaughterhouse Creek	Nutrients	5/15/2002	4.47
	Seamans Creek - source to and including Slaughterhouse Creek	Siltation	5/15/2002	
ID17040219SK006_05	Seamans Creek - source to and including Slaughterhouse Creek	Nutrients	5/15/2002	0.21
	Seamans Creek - source to and including Slaughterhouse Creek	Siltation	5/15/2002	
ID17040219SK029_02	Thorn Creek - source to mouth	Nutrients	5/15/2002	59.24
	Thorn Creek - source to mouth	Siltation	5/15/2002	
ID17040219SK024_02	Warm Springs Creek - source to and including Thompson Creek	Nutrients	5/15/2002	73.72
ID17040219SK024_03	Warm Springs Creek - source to and including Thompson Creek	Nutrients	5/15/2002	7.74
	Summary for 17040219 (46 detail records)			*1079.6*
				299966
	Summary for Upper Snake (274 detail records)			*6165.6*
				600028
			Grand Total	*12178.85*

Section 4c: Lakes Impaired by Flow or Habitat Alteration

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
Bear																												
HUC	*16010201*																											
ID16010201BR001_0L	Alexander Reservoir (Bear River)							1											1		1							1013.13
ID16010201BR018_0La	Indian Creek												1						1		1							5.78
	Summary for 16010201 (2 detail records)																											*1018.9 10005*
HUC	*16010204*																											
ID16010204BR006_02	Susan Hollow												1								1							4.04
	Summary for 16010204 (1 detail record)																											*4.0399 99961*
	Summary for Bear (3 detail records)																											*1022.9 50005*
Clearwater																												
HUC	*17060306*																											
ID17060306CL009_03	Winchester Lake												1						1									86.49
	Summary for 17060306 (1 detail record)																											*86.489 99786*
HUC	*17060308*																											
ID17060308CL002_02	Dworshak Reservoir tributaries							1					1						1									259.66
	Summary for 17060308 (1 detail record)																											*259.66 00036*
	Summary for Clearwater (2 detail records)																											*346.15 00015*
Panhandle																												
HUC	*17010214*																											
ID17010214PN018L_0L	Pend Oreille Lake																		1									80827.85
	Summary for 17010214 (1 detail record)																											*80827. 85156*
HUC	*17010303*																											
ID17010303PN001_02	Coeur d'Alene Lake							1					1								1							95.46
ID17010303PN025_02	Thompson Lake												1								1							6.13

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17010303 (2 detail records)																											*101.58 99991*
	Summary for Panhandle (3 detail records)																											*80929. 44156*
Southwest																												
HUC	*17050124*																											
ID17050124SW004_04	Crane Creek Reservoir	1					1												1	1		1						0.4
	Summary for 17050124 (1 detail record)																											*0.4000 00005*
	Summary for Southwest (1 detail record)																											*0.4000 00005*
Upper Snake																												
HUC	*17040207*																											
ID17040207SK009_02a	Collett Creek												1								1							3.98
ID17040207SK009_03	Little Blackfoot River												1						1		1							7.67
	Summary for 17040207 (2 detail records)																											*11.650 00009*
HUC	*17040210*																											
ID17040210SK020_0L	Sublett Reservoir							1		1									1		1							79.07
	Summary for 17040210 (1 detail record)																											*79.069 99969*
HUC	*17040211*																											
ID17040211SK002L_0L	Lower Goose Creek Reservoir							1		1									1		1							1005.71
	Summary for 17040211 (1 detail record)																											*1005.7 10021*
HUC	*17040212*																											
ID17040212SK035_04	Pioneer Reservoir	1					1			1									1				1					229.81
	Summary for 17040212 (1 detail record)																											*229.80 99975*
HUC	*17040213*																											
ID17040213SK004_0L	Cedar Creek Reservoir	1					1			1									1		1							971.12
	Summary for 17040213 (1 detail record)																											*971.11 99951*
HUC	*17040220*																											
ID17040220SK023L_0L	Mormon Reservoir	1					1			1									1		1							1583.94

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17040220 (1 detail record)																											*1583.9 39941*
HUC	*17040221*																											
ID17040221SK007L_0L	Fish Creek Reservoir	1						1			1								1		1						349.65	
ID17040221SK012L_0L	Little Wood River Reservoir	1						1			1								1		1						600.46	
	Summary for 17040221 (2 detail records)																										*950.11 00158*	
	Summary for Upper Snake (9 detail records)																										*4831.4 09971*	
Grand Total																											*87130.35*	

Section 4c: Rivers Impaired by Flow or Habitat Alteration

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
Bear																												
HUC	*16010102*																											
ID16010102BR002_03	Pegram Creek - source to mouth												1								1							6.27
ID16010102BR006_02	Preuss Creek - source to mouth												1								1							6.07
ID16010102BR008_02	Sheep Creek - source to mouth																		1		1							22.65
	Summary for 16010102 (3 detail records)																											*34.989 99977*
HUC	*16010201*																											
ID16010201BR004_02a	South Wilson Creek												1								1							4.65
ID16010201BR004_03	Eightmile Creek												1								1							4.43
ID16010201BR022_02b	upper Georgetown Creek												1						1		1	1						10.87
ID16010201BR022_03a	lower Georgetown Creek												1	1							1							3.89
ID16010201BR020_02a	Little Beaver Creek												1								1							3.64
ID16010201BR020_02b	Whiskey Creek												1	1							1							5.24
ID16010201BR010_02c	Meadow Creek												1								1							3.15
ID16010201BR013_02b	upper Paris Creek												1						1		1							5.46
ID16010201BR023_02b	lower Soda Creek											1	1						1		1							1.01
	Summary for 16010201 (9 detail records)																											*42.339 99991*
HUC	*16010202*																											
ID16010202BR009_06	Bear River - Alexander Reservoir Dam to Oneida Narrows Reser																		1									15.57

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID16010202BR003_03	Cub River - from and including Sugar Creek to US Hwy 91 Brid							1											1		1							9.09
ID16010202BR002_04	Cub River - US Hwy 91 Bridge (T16S, R40E, Sec. 20) to Idaho/							1											1		1							3.94
ID16010202BR019_02a	Fivemile Creek																		1		1							5.7
ID16010202BR021_02	Jenkins Hollow												1								1							12.62
ID16010202BR021_02a	Steel Canyon												1								1							0.9
ID16010202BR018_02b	Swan Lake Creek													1					1		1							13.8
ID16010202BR020_02	Weston Creek - source to mouth							1											1		1							35.17
ID16010202BR020_02a	Black Canyon												1								1							15.11
ID16010202BR020_02c	upper Weston Creek												1								1							12.17
ID16010202BR020_02d	Trail Hollow												1								1							10.74
ID16010202BR020_03	Weston Creek - source to mouth							1											1		1							8.3
ID16010202BR020_04	Weston Creek - source to mouth							1											1		1							4.7
	Summary for 16010202 (13 detail records)																										*147.80 99974*	
HUC	*16010204*																											
ID16010204BR011_03	Dairy Creek - source to mouth												1	1					1		1							5.5
ID16010204BR002_02a	Campbell Creek												1	1							1							2.86
ID16010204BR002_02c	Evans Creek												1								1							2.63
ID16010204BR002_03	Devil Creek - Devil Creek Reservoir Dam to mouth												1	1					1		1							25.2
ID16010204BR008_04	Little Malad River - Daniels Reservoir Dam to mouth												1	1					1		1							24.55

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID16010204BR001_02b	Four Mile Canyon												1								1						7.59
ID16010204BR001_02c	West Cherry Creek												1								1						4.52
ID16010204BR001_02d	Henderson Creek												1								1						4.97
ID16010204BR001_04	Malad River - Little Malad River to Idaho/Utah border												1	1					1		1						21.48
ID16010204BR010_03	middle Wright Creek												1	1							1						2.72
	Summary for 16010204 (10 detail records)																										*102.01 99995*
HUC	*16020309*																											
ID16020309BR002_02a	Sheep Creek												1	1							1						13.37
ID16020309BR003_02a	Meadow Brook Creek												1								1						28.93
ID16020309BR003_03a	Rock Creek												1								1						3.72
	Summary for 16020309 (3 detail records)																										*46.020 00021*
	Summary for Bear (38 detail records)																										*373.17 99968*
Clearwater																												
HUC	*17060108*																											
ID17060108CL027a_02	Big Creek - source to T42N, R03W, Sec. 08	1						1					1						1		1		1					5.23
ID17060108CL027b_02	Big Creek - T42N, R03W, Sec. 08 to mouth	1						1					1						1		1		1					15.49
ID17060108CL001_02	Cow Creek - source to Idaho/Washington border							1					1										1					84.63
ID17060108CL001_03	Cow Creek - source to Idaho/Washington border							1					1										1					10.71
ID17060108CL032a_02	Deep Creek - source to T42, R05, Sec. 02	1						1					1						1		1		1					23.76
ID17060108CL032a_03	Deep Creek - source to T42, R05, Sec. 02	1						1					1						1		1		1					0.63

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060108CL032b_03	Deep Creek - T42, R05, Sec. 02 to mouth	1						1					1						1		1		1					6.18
ID17060108CL014a_02	East Fork Rock Creek - source to T41N, R 04W, Sec. 29	1						1					1						1		1		1					2.22
ID17060108CL014b_02	East Fork Rock Creek - T41N, R 04W, Sec. 29 to mouth	1						1					1						1		1		1					1.67
ID17060108CL011a_02	Flannigan Creek - source to T41N, R05W, Sec. 23	1						1					1						1		1		1					18.03
ID17060108CL011a_03	Flannigan Creek - source to T41N, R05W, Sec. 23	1						1					1						1		1		1					3.06
ID17060108CL011b_03	Flannigan Creek - T41N, R05W, Sec. 23 to mouth	1						1					1						1		1		1					3.71
ID17060108CL030_02	Gold Creek - source to T42N, R04W, Sec. 28	1						1					1						1		1		1					19.96
ID17060108CL029_03	Gold Creek - T42N, R04W, Sec. 28 to mouth	1						1					1						1		1		1					1.78
ID17060108CL015a_02	Hatter Creek - source to T40N, R04W, Sec. 3	1						1					1						1		1		1					17.3
ID17060108CL015b_03	Hatter Creek - T40N, R04W, Sec. 3 to mouth	1						1					1						1		1		1					5.23
ID17060108CL005_02	Paradise Creek - Urban boundary to Idaho/Washington border												1						1									1.17
ID17060108CL005_02a	Paradise Creek - forest habitat boundary to Urban boundary												1						1									22.34
ID17060108CL005_02b	Idlers Rest Creek - source to forest habitat boundary												1						1									5.49
ID17060108CL012_03	Rock Creek - confluence of West and East Fork Rock Creeks to	1						1					1						1		1		1					1.73
ID17060108CL002_03	South Fork Palouse River - Gnat Creek to Idaho/Washington bo	1						1					1						1		1		1					8.25

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060108CL003_02	South Fork Palouse River - source to Gnat Creek	1						1					1						1		1		1					14.51
ID17060108CL003_03	South Fork Palouse River - source to Gnat Creek	1						1					1						1		1		1					1.92
ID17060108CL013a_02	West Fork Rock Creek - source to T41N, R04W, Sec. 30	1						1					1						1		1		1					5.68
ID17060108CL013b_03	West Fork Rock Creek - T41N, R04W, Sec. 30 to mouth	1						1					1						1		1		1					1.4
	Summary for 17060108 (25 detail records)																											*282.07 99959*
HUC	*17060305*																											
ID17060305CL011_02	Butcher Creek - source to mouth	1									1		1						1		1		1					18.88
ID17060305CL002_02	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups												1															24.33
ID17060305CL002_04	Cottonwood Creek - Cottonwood Creek waterfall (9.0 miles ups												1															9.13
ID17060305CL003_02	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0												1															39.22
ID17060305CL003_03	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0												1															0.39
ID17060305CL003_04	Cottonwood Creek - source to Cottonwood Creek waterfall (9.0												1															7.54
ID17060305CL001_02	South Fork Clearwater River - Butcher Creek to mouth												1								1		1					25.7
ID17060305CL001_05	South Fork Clearwater River - Butcher Creek to mouth												1								1		1					12.6

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL036_02	South Fork Clearwater River - confluence of American River a												1								1		1					2.49
ID17060305CL036_05	South Fork Clearwater River - confluence of American River a												1								1		1					6.69
ID17060305CL030_02	South Fork Clearwater River - Crooked River to Tenmile Creek												1								1		1					28.39
ID17060305CL030_05	South Fork Clearwater River - Crooked River to Tenmile Creek												1								1		1					11.76
ID17060305CL012_02	South Fork Clearwater River - sidewall tributaries												1								1		1					46.75
ID17060305CL012_02a	Schwartz Creek												1								1		1					44.47
ID17060305CL012_05	South Fork Clearwater River - Johns Creek to Butcher Creek												1								1		1					23.17
ID17060305CL022_02	Huddleson Creek and tributaries												1								1		1					33.91
ID17060305CL022_05	South Fork Clearwater River - Tenmile Creek to Johns Creek												1								1		1					11.78
ID17060305CL008_02	South Fork Cottonwood Creek - source to mouth	1											1															24.98
ID17060305CL008_03	South Fork Cottonwood Creek - source to mouth	1											1															5.02
ID17060305CL010_02	Threemile Creek - source to unnamed tributary	1						1			1		1						1		1		1			1		47.67
ID17060305CL010_03	Threemile Creek - Unnamed tributary to mouth	1						1			1		1						1		1		1			1		2.18
	Summary for 17060305 (21 detail records)																											*427.04* *99998*
HUC	*17060306*																											
ID17060306CL041_02	Bedrock Creek - source to mouth	1						1	1		1		1						1		1		1			1		19.94

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060306CL046_04	Cedar Creek - source to mouth												1															5.18
ID17060306CL002_07	Clearwater River - Potlatch River to Lower Granite Dam pool	1						1		1	1		1						1	1	1					1		10.09
ID17060306CL051_04	East Fork Potlatch River - source to mouth	1						1					1						1	1	1							4.73
ID17060306CL036_02	Grasshopper Creek - source to mouth												1						1									19.57
ID17060306CL036_03	Grasshopper Creek - source to mouth												1						1	1								4.3
ID17060306CL067_02	Hatwai Creek - source to mouth	1						1					1										1					39.65
ID17060306CL019_02	Holes Creek - source to mouth	1					1	1	1	1	1		1		1				1	1						1		26.12
ID17060306CL019_03	Holes Creek - source to mouth	1					1	1	1	1	1		1		1				1	1						1		2.71
ID17060306CL031_02	Jim Brown Creek - source to mouth	1						1					1						1	1			1					44.63
ID17060306CL031_03	Jim Brown Creek - source to mouth	1						1					1						1	1			1					9.84
ID17060306CL034_04	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre												1						1	1								12.21
ID17060306CL035_02	Heywood, Wilson Creeks and tributaries												1						1									48.63
ID17060306CL035_03	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi												1						1									6.39
ID17060306CL035_04	Jim Ford Creek - source to Jim Ford Creek waterfall (12.5 mi												1						1									3.87
ID17060306CL010_02	Lapwai Creek - source to Winchester Lake												1						1									13.84

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060306CL010_03	Lapwai Creek - source to Winchester Lake												1						1									1.31
ID17060306CL008_04	Lapwai Creek - Winchester Lake to Sweetwater Creek	1						1			1		1						1		1		1					3.6
ID17060306CL024_02	Lawyer Creek - source to mouth	1						1	1		1		1						1		1		1			1		239.16
ID17060306CL024_03	Lawyer Creek - source to mouth	1						1	1		1		1						1		1		1			1		20.48
ID17060306CL003_02	Lindsay Creek - source to mouth	1						1			1		1						1		1		1					23.78
ID17060306CL003_03	Lindsay Creek - source to mouth	1						1			1		1						1		1		1					3.64
ID17060306CL020_03	Long Hollow Creek - source to mouth	1						1			1		1						1		1							4.04
ID17060306CL062_02	Middle Potlatch Creek - source to mouth	1						1					1						1		1		1					45.85
ID17060306CL062_03	Middle Potlatch Creek - source to mouth	1						1					1						1		1		1					14.47
ID17060306CL053_02	Moose Creek - source to mouth	1						1					1			1			1		1		1					15.72
ID17060306CL053_03	Moose Creek - source to mouth	1						1					1			1			1		1		1					3.7
ID17060306CL043_02	Pine Creek - source to mouth	1						1			1		1						1		1		1					25.2
ID17060306CL055_02	Pine Creek - source to mouth	1						1					1						1		1		1					35.97
ID17060306CL055_03	Pine Creek - source to mouth	1						1					1						1		1		1					3.87
ID17060306CL044_06	Potlatch River - Big Bear Creek to mouth	1						1	1	1	1		1		1				1		1		1			1		16.36
ID17060306CL045_05	Potlatch River - Corral Creek to Big Bear Creek	1						1					1						1		1		1					18.48
ID17060306CL048_04	Potlatch River - Moose Creek to Corral Creek	1						1					1						1		1		1					6.66

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060306CL048_05	Potlatch River - Moose Creek to Corral Creek	1						1					1						1	1		1						7.7
ID17060306CL049_02	Potlatch River - headwaters and tribs	1						1					1						1	1		1						61.71
ID17060306CL049_03	Potlatch River - source to Moose Creek	1						1					1						1	1		1						5.3
ID17060306CL049_04	Potlatch River - source to Moose Creek	1						1					1						1	1		1						3.71
ID17060306CL052_03	Ruby Creek - source to mouth	1						1					1						1	1		1						2.14
ID17060306CL025_02	Sevenmile Creek - source to mouth												1							1								23.59
ID17060306CL025_03	Sevenmile Creek - source to mouth												1							1								2.43
ID17060306CL023_02	Sixmile Creek - source to mouth	1						1	1	1	1		1		1				1	1		1				1		32.7
ID17060306CL023_03	Sixmile Creek - source to mouth	1						1	1	1	1		1		1				1	1		1				1		0.66
ID17060306CL006_02	Sweetwater Creek - source to Webb Creek	1						1			1		1		1				1	1		1						47.72
ID17060306CL006_03	Sweetwater Creek - source to Webb Creek	1						1		1	1		1		1				1	1		1						3.16
ID17060306CL006_04	Sweetwater Creek - source to Webb Creek	1						1		1	1		1		1				1	1		1						6.74
ID17060306CL007_02	Webb Creek - source to mouth	1						1			1		1						1	1		1						34.87
ID17060306CL038_02	Winter Creek - source to Winter Creek waterfall (3.4 miles u												1						1									6.77
	Summary for 17060306 (47 detail records)																											*993.19*
	Summary for Clearwater (93 detail records)																											*1702.3*
																												00100
																												20005

Panhandle

HUC *17010213*

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010213PN003_08	Clark Fork River - Cabinet Gorge Dam to Mosquito Creek																		1					1				9.8
ID17010213PN005_08	Clark Fork River - Idaho/Montana border to Cabinet Gorge Dam			1															1				1					0.55
ID17010213PN001_08	Clark Fork River Delta - Mosquito Creek to Pend Oreille Lake						1						1						1				1	1				11.27
ID17010213PN014_02	East Fork Creek - Idaho/Montana border to mouth												1						1		1		1					5.24
ID17010213PN014_03	East Fork Creek - Idaho/Montana border to mouth												1						1		1		1					0.92
ID17010213PN002_02	Johnson Creek - source to mouth												1						1		1		1					15.31
ID17010213PN002_03	Johnson Creek - source to mouth												1						1		1		1					2.12
	Summary for 17010213 (7 detail records)																										*45.210 00075*	
HUC	*17010214*																											
ID17010214PN002_02	Pend Oreille River - Pend Oreille Lake to Priest River																		1		1		1	1				34.05
ID17010214PN002_03	Pend Oreille River - Pend Oreille Lake to Priest River																		1		1		1	1				7.68
ID17010214PN002_08	Pend Oreille River - Pend Oreille Lake to Priest River																		1		1		1	1				22.73
ID17010214PN001_02	Pend Oreille River - Priest River to Albeni Falls Dam																		1		1		1	1				10.28
ID17010214PN001_08	Pend Oreille River - Priest River to Albeni Falls Dam																		1		1		1	1				3.36
	Summary for 17010214 (5 detail records)																										*78.099 99823*	
HUC	*17010301*																											

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010301PN020_02	Big Elk Creek - source to mouth												1															48.55
ID17010301PN020_03	Big Elk Creek - source to mouth												1										1					4.6
ID17010301PN030_02	Little North Fork Coeur d'Alene River - source to mouth												1						1				1					86.49
ID17010301PN030_03	Little North Fork Coeur d'Alene River - source to mouth												1						1									11.26
ID17010301PN030_04	Little North Fork Coeur d'Alene River - source to mouth												1						1									23.85
ID17010301PN001_05	North Fork Coeur d'Alene River - Yellow Dog Creek to mouth												1						1			1	1					41.04
ID17010301PN004_03	Prichard Creek - Butte Creek to mouth						1						1										1					5.45
ID17010301PN004_04	Prichard Creek - Butte Creek to mouth						1						1										1					2.94
ID17010301PN028_03	Steamboat Creek - source to mouth												1						1				1					6.86
	Summary for 17010301 (9 detail records)																											*231.03 99985*
HUC	*17010302*																											
ID17010302PN014_02	Canyon Creek - from and including Gorge Gulch to mouth												1								1		1					8.64
	Summary for 17010302 (1 detail record)																											*8.6400 00343*
HUC	*17010303*																											
ID17010303PN007_06	Coeur d'Alene River - Latour Creek to mouth												1								1		1					29.41
ID17010303PN002_02	Cougar Creek - source to mouth												1										1					13.52

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010303PN020_02	Fourth of July Creek - source to mouth												1								1							31.87
ID17010303PN020_03	Fourth of July Creek - source to mouth												1								1							5.12
ID17010303PN003_02	Kid Creek - source to mouth												1															4.08
ID17010303PN015_02	Latour Creek - source to mouth												1										1					50.43
ID17010303PN031_02	Marie Creek - source to mouth												1										1					19.67
ID17010303PN004_02	Mica Creek - source to mouth												1	1									1					20.29
ID17010303PN004_03	Mica Creek - source to mouth												1	1														0.78
ID17010303PN029_03	Wolf Lodge Creek - source to mouth												1										1					3.72
	Summary for 17010303 (10 detail records)																											*178.89 00022*
HUC	*17010304*																											
ID17010304PN014_02	Carpenter Creek - source to mouth												1								1		1					27.55
ID17010304PN014_03	Carpenter Creek - source to mouth												1								1		1					1.02
ID17010304PN011_02	Charlie Creek - source to mouth												1								1							32.72
ID17010304PN011_03	Charlie Creek - source to mouth												1								1		1					5.81
ID17010304PN016_03	Emerald Creek - source to mouth												1								1		1					8.68
ID17010304PN019_02	Gold Center Creek - source to mouth												1										1					19.68
ID17010304PN019_03	Gold Center Creek - source to mouth												1										1					2.16
ID17010304PN053_02	Gold Creek - source to mouth												1										1					25.86

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010304PN018_02	Middle Fork St. Maries River - source to mouth												1										1					34.26
ID17010304PN018_03	Middle Fork St. Maries River - source to mouth												1								1		1					1.54
ID17010304PN018_04	Middle Fork St. Maries River - source to mouth												1										1					4.71
ID17010304PN018_05	Middle Fork St. Maries River - source to mouth												1								1		1					1.39
ID17010304PN010_02	Santa Creek - source to mouth												1								1							34.22
ID17010304PN010_03	Santa Creek - source to mouth												1								1		1					4.18
ID17010304PN027_02	St. Joe River - North Fork St. Joe River to St. Maries River												1										1					159.92
ID17010304PN013_03	Tyson Creek - source to mouth												1								1		1					2.14
	Summary for 17010304 (16 detail records)																											*365.83* *99993*
	Summary for Panhandle (48 detail records)																											*907.71* *99994*

Salmon

HUC	17060201																											
ID17060201SL009_03	Challis Creek - Bear Creek to Darling Creek																		1									4.94
ID17060201SL009_04	Challis Creek - Bear Creek to Darling Creek						1												1									1.5
ID17060201SL007_04	Challis Creek - Darling Creek to mouth																		1									3.42
ID17060201SL015_02	Garden Creek - source to mouth												1						1									45.07
ID17060201SL124_04	Road Creek - Corral Basin Creek to mouth																		1									4.79
ID17060201SL125_02	Road Creek - source to Corral Basin Creek																		1									31.93

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060201SL034_04	Yankee Fork Creek - source to Jordan Creek												1								1							7.05
	Summary for 17060201 (7 detail records)																											*98.700 00028*
HUC	*17060202*																											
ID17060202SL009_02	Grouse Creek - source to mouth			1															1									35.96
ID17060202SL006_02	Meadow Creek - source to mouth			1										1					1									28.51
ID17060202SL039_03	Morgan Creek - source to mouth																		1									14.07
ID17060202SL037_03	Morse Creek - Irrigation junction to mouth																		1									4.58
ID17060202SL034_03	Patterson Creek - Inyo Creek to mouth																		1									14.97
ID17060202SL034_04	Patterson Creek - Inyo Creek to mouth																		1									12.05
	Summary for 17060202 (6 detail records)																											*110.13 99993*
HUC	*17060204*																											
ID17060204SL046_02	Clear Creek - source to mouth			1															1									17.23
ID17060204SL030_05	Lemhi River - confluence of Eighteenmile Creek and Texas Cre			1															1		1							10.39
ID17060204SL026a_02	Mill Creek - diversion (T16N, R24E, Sec. 22) to mouth							1											1		1							10.41
ID17060204SL047_02	Tenmile Creek - Powderhorn Gulch to mouth			1															1									2.81
ID17060204SL036_03	Texas Creek			1										1					1		1							14.93
ID17060204SL027_02	Walter Creek - source to mouth			1															1									7.84
	Summary for 17060204 (6 detail records)																											*63.610 00013*

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
HUC	*17060205*																											
ID17060205SL008_02	Elkhorn Creek - source to mouth																		1		1		1					29.01
	Summary for 17060205 (1 detail record)																											*29.010 00022*
HUC	*17060207*																											
ID17060207SL007_02	Warren Creek - tributaries												1															77.02
ID17060207SL007_03	Warren Creek - source to mouth												1															9.28
	Summary for 17060207 (2 detail records)																											*86.299 99637*
HUC	*17060209*																											
ID17060209SL060_02	Deep Creek - source to unnamed tributary							1					1	1					1		1		1					28.3
ID17060209SL061_02	Maloney Creek - source to WF Maloney and tributaries	1						1											1		1		1					30.04
	Summary for 17060209 (2 detail records)																											*58.340 00015*
	Summary for Salmon (24 detail records)																											*446.09 99965*
Southwest																												
HUC	*17050101*																											
ID17050101SW012_02	Little Canyon Creek - 1st and 2nd order																		1		1							31.02
	Summary for 17050101 (1 detail record)																											*31.020 00045*
HUC	*17050102*																											
ID17050102SW004_04	Big Jacks Creek - 4th order																		1		1							7.35
ID17050102SW010_02	Hot Creek - source to mouth	1																	1		1							37.19
ID17050102SW010_03	Hot Creek - source to mouth	1																	1		1							13
ID17050102SW007_02	Wickahoney Creek - 1st and 2nd order																		1		1							87.9

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050102SW007_03	Wickahoney Creek - 3rd order																		1		1							3.54
	Summary for 17050102 (5 detail records)																											*148.98 00000*
HUC	*17050103*																											
ID17050103SW012_04	Sinker Creek - source to mouth																		1		1		1					14.99
ID17050103SW014_02	Castle Creek - source to mouth																		1		1		1					165.85
ID17050103SW014_04	Castle Creek - source to mouth																		1		1		1					9.12
ID17050103SW014_05	Castle Creek - source to mouth																		1		1		1					3.82
ID17050103SW005_02	Jump Creek - 1st and 2nd order												1															84.64
ID17050103SW004_02	McBride Creek - 1st and 2nd order																		1		1		1					73.11
ID17050103SW004_03	McBride Creek - 3rd order																		1		1		1					6.89
ID17050103SW016_02	Pickett Creek - source to mouth																		1		1		1					27.53
ID17050103SW006_02	Snake River - C.J. Strike Dam to river mile 425 (T02N, R04W,																		1		1		1					182.24
ID17050103SW001_07	Snake River - 7th order							1			1								1		1							7.44
ID17050103SW003_02	Succor Creek - source to Idaho/Oregon border																		1		1		1					68.41
ID17050103SW003_03	Succor Creek - source to Idaho/Oregon border																		1		1		1					15.7
	Summary for 17050103 (12 detail records)																											*659.74 00152*
HUC	*17050104*																											
ID17050104SW028_02	Pole Creek - 1st and 2nd order																		1		1							71.29

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050104SW028_03	Pole Creek - 3rd order																		1									6.4
ID17050104SW034_02	Red Canyon Creek - 1st and 2nd order																		1		1							77.67
ID17050104SW034_04	Red Canyon Creek - 4th order																		1		1							2.96
	Summary for 17050104 (4 detail records)																											*158.31 99992*
HUC	*17050105*																											
ID17050105SW001_06	South Fork Owyhee River - Idaho/Nevada border to mouth																		1									19.62
	Summary for 17050105 (1 detail record)																											*19.620 00083*
HUC	*17050107*																											
ID17050107SW012_02	Juniper Creek - source to mouth																		1		1							24.49
ID17050107SW012_03	Juniper Creek - source to mouth																		1		1							6.87
ID17050107SW004_02	Middle Fork Owyhee River - source to Idaho/Oregon border																		1		1							48.03
ID17050107SW004_03	Middle Fork Owyhee River - source to Idaho/Oregon border																		1		1							4.59
ID17050107SW008_04	North Fork Owyhee River - 4th order																		1									2.32
ID17050107SW009_02	Pleasant Valley Creek - source to mouth																		1									37.73
ID17050107SW009_03	Pleasant Valley Creek - source to mouth																		1									5.68
ID17050107SW006_02	Squaw Creek - 1st and 2nd order																		1		1		1					51.72
	Summary for 17050107 (8 detail records)																											*181.42 99991*
HUC	*17050108*																											

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050108SW021_02	Cow Creek - 1st and 2nd order																		1		1		1					55.12
ID17050108SW021_03	Cow Creek - 3rd order																		1		1		1					3.42
ID17050108SW014_02	Louisa Creek - source to Triangle Reservoir																		1		1		1					13.81
ID17050108SW018_02	Louse Creek - 1st and 2nd order						1									1			1		1							20.55
ID17050108SW013_02	Rock Creek - 1st and 2nd order																		1		1		1					64.23
ID17050108SW015_02	Spring Creek - source to mouth																		1				1					48.83
ID17050108SW015_03	Spring Creek - source to mouth																		1				1					8.34
	Summary for 17050108 (7 detail records)																											*214.30 00040*
HUC	*17050114*																											
ID17050114SW011b_06	Boise River - Lucky Peak Dam to Diversion Dam																		1									2.31
	Summary for 17050114 (1 detail record)																											*2.3099 99942*
HUC	*17050123*																											
ID17050123SW011_03	Boulder Creek - source to Cascade Reservoir							1			1								1		1		1					11.55
ID17050123SW014_03	Lake Fork - source to Little Payette Lake												1															5.33
ID17050123SW001_06	North Fork Payette River - 6th order							1					1						1		1		1					42.3
	Summary for 17050123 (3 detail records)																											*59.179 99935*
HUC	*17050201*																											
ID17050201SW012_02	Dennett Creek - source to mouth																		1		1		1					16.39
ID17050201SW007_03	Warm Springs Creek - 3rd order			1															1									5.31

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17050201 (2 detail records)																											*21.699 99933*
	Summary for Southwest (44 detail records)																											*1496.6 00017*
Upper Snake																												
HUC	*17040104*																											
ID17040104SK001_06	Snake River - Black Canyon Creek to river mile 856 (T03N, R4																		1									27.91
ID17040104SK003_06	Snake River - Fall Creek to Black Canyon Creek																		1									32.74
ID17040104SK008_06	Snake River - Palisades Reservoir Dam to Fall Creek																		1									22.1
	Summary for 17040104 (3 detail records)																											*82.750 00190*
HUC	*17040105*																											
ID17040105SK008_02c	Beaver Dam Creek												1								1							5.09
ID17040105SK010_02a	South Fork Deer Creek												1								1							11.69
ID17040105SK010_02b	North Fork Deer Creek												1								1							3.18
ID17040105SK002_02c	Cabin Creek												1								1							3.01
ID17040105SK011_03	Rock Creek												1								1							3.46
ID17040105SK006_02f	White Canyon												1								1							3.2
ID17040105SK001_02b	Newswander Canyon												1								1							4.96
ID17040105SK007_02c	Smoky Creek												1								1							10.75
ID17040105SK007_02f	Draney Creek												1	1							1							6.85
	Summary for 17040105 (9 detail records)																											*52.189 99981*
HUC	*17040201*																											
ID17040201SK013_06	Snake River - river mile 856 (T03N, R41E, Sec. 16) to Dry Be																		1									7.24

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17040201 (1 detail record)																											*7.2399*
																												99771
HUC	*17040204*																											
ID17040204SK045_02	Darby Creek - Idaho/Wyoming border to SW ¼, SE ¼, Sec. 10, T																		1									9.3
ID17040204SK042_02	Fox Creek - Idaho/Wyoming border to North Fox Creek Canal (N																		1				1					0.91
ID17040204SK041_02	Fox Creek - North Fox Creek Canal (NW ¼, Sec 29 T4N, R46E) t																		1				1					7.99
ID17040204SK025_02	Mahogany Creek - source to pipeline diversion (NE ¼, Sec. 27																		1				1					7.01
ID17040204SK018_03	Packsaddle Creek - diversion (NE ¼ Sec. 8, T5N, R44E) to mou																		1									4.45
ID17040204SK019_02	Packsaddle Creek - source to diversion (NE ¼ Sec. 8, T5N, R4																		1									14.79
ID17040204SK054_03	Spring Creek - North Leigh Creek to mouth																		1				1					13.17
ID17040204SK056_02	Spring Creek - source to North Leigh Creek, including spring																		1				1					24.2
ID17040204SK056_03	Spring Creek - source to North Leigh Creek, including spring																		1				1					1.44
ID17040204SK014_04	Teton River - Felt Dam outlet to Milk Creek												1															1.66
ID17040204SK015_04	Teton River - Felt Dam pool												1															4.12
ID17040204SK016_04	Teton River - Highway 33 bridge to Felt Dam pool							1					1								1							3.26
ID17040204SK020_04	Teton River - Teton Creek to Cache Bridge (NW ¼, NE ¼, Sec.												1															13.71

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040204SK026_02	Teton River - Trail Creek to Teton Creek																		1				1					22.31
ID17040204SK026_04	Teton River - Trail Creek to Teton Creek												1															6.45
	Summary for 17040204 (15 detail records)																											*134.77 00000*
HUC	*17040205*																											
ID17040205SK010_03	Sellars Creek - source to mouth																		1		1		1					4.23
ID17040205SK011_02	Willow Creek - Crane Creek to Mud Creek																		1		1		1					23.25
	Summary for 17040205 (2 detail records)																											*27.480 00001*
HUC	*17040206*																											
ID17040206SK005_02	Sunbeam Creek - source to mouth												1								1							24.03
	Summary for 17040206 (1 detail record)																											*24.030 00068*
HUC	*17040207*																											
ID17040207SK023_02a	Rasmussen Creek												1								1							6.26
ID17040207SK023_02b	upper Angus Creek												1															7.78
ID17040207SK023_04	Angus Creek - source to mouth												1															3.46
ID17040207SK019_02b	Bacon Creek												1															3.5
ID17040207SK019_03	Bacon Creek												1															2.05
ID17040207SK019_04	Bacon Creek - source to mouth												1															4.62
ID17040207SK002_02b	Deadman Creek												1								1							5.16
ID17040207SK002_05	Blackfoot River - Blackfoot Reservoir Dam to Fort Hall Main																		1									65.53
ID17040207SK010_02a	State Land Creek												1								1							9.07

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040207SK021_03	lower Chippy Creek												1								1							0.94
ID17040207SK006_02a	Chicken Creek												1								1							6.59
ID17040207SK006_02b	Bear Creek												1								1							3.84
ID17040207SK006_03	Corral Creek - source to mouth												1															9.22
ID17040207SK006_04	Corral Creek - source to mouth												1															6.59
ID17040207SK005_02a	Warbonnet Creek												1								1							6.22
ID17040207SK005_03	Grave Creek - source to mouth												1								1							5.48
ID17040207SK007_02a	Sawmill Creek												1								1							7.44
ID17040207SK031_02	Jones Creek - source to mouth												1								1							4.54
ID17040207SK018_02e	Lanes Creek												1															3.12
ID17040207SK018_03	Lanes Creek												1															3.65
ID17040207SK018_04	Lanes Creek - source to mouth												1															9.41
ID17040207SK025_02	Meadow Creek - source to Blackfoot Reservoir												1															75.53
ID17040207SK025_02a	Clark's Cut												1						1		1							1.47
ID17040207SK025_02c	Wham Creek												1															12.31
ID17040207SK025_03	Meadow Creek - source to Blackfoot Reservoir												1															7.18
ID17040207SK025_03b	Crooked Creek												1								1							2.13
ID17040207SK025_04	Meadow Creek - source to Blackfoot Reservoir												1															9.71
ID17040207SK015_02a	upper Mill Canyon						1						1							1	1							
ID17040207SK022_03	lower Sheep Creek												1															1.32

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040207SK012_02b	Goodheart Creek												1								1							7.54
ID17040207SK012_03	Slug Creek - source to mouth												1															4.79
ID17040207SK012_04	Slug Creek - source to mouth												1															18.15
ID17040207SK008_02	Thompson Creek - source to mouth												1								1							10.71
ID17040207SK030_03	Wolverine Creek - source to mouth												1						1									2.54
	Summary for 17040207 (34 detail records)																											*330.28 99976*
HUC	*17040208*																											
ID17040208SK015_03	Birch Creek - source to mouth												1						1									3.96
ID17040208SK014_02	Cherry Creek - source to mouth	1						1					1						1		1							17.62
ID17040208SK014_02b	Cherry Creek												1						1									5.85
ID17040208SK017_02c	Beaverdam Creek												1								1							18.45
ID17040208SK006_02c	lower Yago Creek												1								1							3.59
ID17040208SK006_03a	Marsh Creek	1						1					1								1							3.79
ID17040208SK006_04	lower Marsh Creek												1	1					1									17.68
ID17040208SK006_04a	lower middle Marsh Creek												1	1					1									19.77
ID17040208SK004_02a	Kinney Creek												1								1							2.57
ID17040208SK024_03	lower Pocatello Creek												1															2.02
ID17040208SK016_02	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek												1						1									156.67
ID17040208SK016_03	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek												1						1									66.37

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040208SK016_04	Portneuf River - Chesterfield Reservoir Dam to Marsh Creek																		1									2.82
ID17040208SK001_05	Portneuf River - Marsh Creek to American Falls Reservoir			1									1															28.79
	Summary for 17040208 (14 detail records)																											*349.95 00038*
HUC	*17040210*																											
ID17040210SK003_04	Cassia Creek - Conner Creek to mouth												1								1							12.77
ID17040210SK007_05	Cassia Creek - source to Clyde Creek	1						1			1								1		1					1		4.82
ID17040210SK002_02	Raft River - Cassia Creek to Heglar Canyon Creek	1						1			1								1		1					1		167.19
ID17040210SK002_05	Raft River - Cassia Creek to Heglar Canyon Creek	1						1			1								1		1					1		21.42
ID17040210SK008_04	Raft River - Cottonwood Creek to Cassia Creek	1									1							1	1		1		1					22.91
ID17040210SK001_05	Raft River - Heglar Canyon Creek to mouth	1						1			1								1		1					1		12.42
ID17040210SK013_04	Raft River - Idaho/Utah border to Edwards Creek	1									1							1	1		1		1					8.97
ID17040210SK010_04	Raft River - Unnamed Tributary (T15S, R26E, Sec. 24) to Cott																		1									19.1
ID17040210SK019_02	Sublett Creek - Sublett Reservoir Dam to mouth	1						1			1								1		1							51.44
	Summary for 17040210 (9 detail records)																											*321.04 00023*
HUC	*17040211*																											
ID17040211SK003_04	Trapper Creek - from and including Squaw Creek to Lower Goos	1									1								1		1							7.3
ID17040211SK003_04a	Trapper Creek												1															0.34

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040211SK000_02A	Little Cottonwood Creek													1					1									63.19
ID17040211SK000_05	Unclassified Waters in CU 17040211	1						1			1								1		1		1					4.34
	Summary for 17040211 (4 detail records)																											*75.169 99897*
HUC	*17040212*																											
ID17040212SK033_02	Billingsley Creek - source to mouth										1								1							1		8.13
ID17040212SK040_03	Calf Creek - source to mouth							1						1					1		1		1					6.56
ID17040212SK012_03	Cedar Draw - source to mouth							1						1					1				1					2.93
ID17040212SK014_02	Cottonwood Creek - source to mouth							1						1					1				1					37.64
ID17040212SK014_04	Cottonwood Creek - source to mouth							1							1				1							1		6.9
ID17040212SK022_03	Dry Creek - source to mouth																		1				1					9.85
ID17040212SK015_03	McMullen Creek - source to mouth							1			1								1				1					9.41
ID17040212SK010_03	Mud Creek - Deep Creek Road (T09S, R14E) to mouth							1						1					1				1					1.07
ID17040212SK016_04	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R							1	1		1								1							1		8.31
ID17040212SK013_04	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth							1	1		1								1							1		4.63
ID17040212SK013_05	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth							1	1		1								1							1		20.11
ID17040212SK005_07	Snake River - Box Canyon Creek to Lower Salmon Falls										1								1									16.51

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040212SK001_07	Snake River - Lower Salmon Falls to Clover Creek										1								1									26.62
ID17040212SK020_07	Snake River - Milner Dam to Twin Falls	1									1								1				1					21.29
ID17040212SK007_02	Snake River - Rock Creek to Box Canyon Creek							1			1								1							1		15.68
ID17040212SK007_07	Snake River - Rock Creek to Box Canyon Creek										1								1									18.3
ID17040212SK019_07	Snake River - Twin Falls to Rock Creek										1								1									11.87
ID17040212SK031_02	Thousand Springs							1											1									4.6
ID17040212SK000_02	Unclassified Waters in CU 17040212										1								1									392.31
ID17040212SK023_02	West Fork Dry Creek - source to mouth							1			1								1									10.72
	Summary for 17040212 (20 detail records)																										*633.44 00001*	
HUC	*17040213*																											
ID17040213SK000_04	Unclassified Waters in CU 17040213	1						1			1								1		1							19.54
	Summary for 17040213 (1 detail record)																										*19.540 00091*	
HUC	*17040214*																											
ID17040214SK003_05	Beaver Creek - canal (T09N, R36E) to mouth							1					1						1		1		1					10.56
ID17040214SK014_05	Beaver Creek - Dry Creek to canal (T09N, R36E)							1					1						1		1		1					15.7
ID17040214SK018_02	Beaver Creek - Miners Creek to Rattlesnake Creek							1					1						1		1		1					40.25
ID17040214SK018_04	Beaver Creek - Miners Creek to Rattlesnake Creek							1					1						1		1		1					8.93
ID17040214SK015_05	Beaver Creek - Rattlesnake Creek to Dry Creek							1					1						1		1		1					2.9

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040214SK002_05	Camas Creek - Spring Creek to Beaver Creek							1					1						1		1		1					41.33
	Summary for 17040214 (6 detail records)																											*119.67 00024*
HUC	*17040215*																											
ID17040215SK010_02	Edie Creek - source to mouth												1								1							10.17
ID17040215SK012_03	Irving Creek - source to mouth												1								1							2.56
ID17040215SK006_04	Medicine Lodge Creek - Edie Creek to Indian Creek																		1		1		1					14.72
	Summary for 17040215 (3 detail records)																											*27.450 00028*
HUC	*17040216*																											
ID17040216SK001_04	Birch Creek - Reno Ditch to playas							1					1						1		1							24.7
	Summary for 17040216 (1 detail record)																											*24.700 00076*
HUC	*17040217*																											
ID17040217SK024_03	Wet Creek - source to Squaw Creek																		1				1					5.8
ID17040217SK022_03	Wet Creek - Squaw Creek to mouth																		1				1					8.36
	Summary for 17040217 (2 detail records)																											*14.159 99984*
HUC	*17040218*																											
ID17040218SK047_04	Antelope Creek - Dry Fork Creek to Spring Creek																		1		1		1					3.56
ID17040218SK046_02	Antelope Creek - Spring Creek to mouth																		1		1		1					49.58
ID17040218SK046_05	Antelope Creek - Spring Creek to mouth																		1		1		1					26.72
ID17040218SK004_06	Big Lost River - Antelope Creek to Spring Creek							1			1								1		1		1					38

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040218SK002_06	Big Lost River - Spring Creek to Big Lost River Sinks (playa							1			1								1		1		1					72.2
ID17040218SK003_06	Spring Creek - Lower Pass Creek to Big Lost River							1			1								1		1		1					17.12
	Summary for 17040218 (6 detail records)																											*207.17 99988*
HUC	*17040219*																											
ID17040219SK007_05	Big Wood River - North Fork Big Wood River to Seamans Creek																		1									28.95
ID17040219SK004_05	Big Wood River - Seamans Creek to Magic Reservoir																		1									39.46
ID17040219SK030_03	Black Canyon Creek - source to mouth							1											1			1						28.05
ID17040219SK027_03	Croy Creek - source to mouth																		1			1						8.36
ID17040219SK008_02	Quigley Creek - source to mouth																1		1			1	1					15.9
ID17040219SK028_02	Rock Creek - source to mouth	1											1										1					39.41
	Summary for 17040219 (6 detail records)																											*160.12 99982*
HUC	*17040220*																											
ID17040220SK011_02	Soldier Creek - Wardrop Creek to mouth	1						1			1								1		1							15.21
	Summary for 17040220 (1 detail record)																											*15.210 00003*
HUC	*17040221*																											
ID17040221SK022_02	Dry Creek - source to mouth	1						1			1								1		1							39.65
ID17040221SK022_03	Dry Creek - source to mouth	1						1			1								1		1							11.61
ID17040221SK006_03	Fish Creek - Fish Creek Reservoir Dam to mouth	1						1			1								1		1							2.67
ID17040221SK006_04	Fish Creek - Fish Creek Reservoir Dam to mouth	1						1			1								1		1							16.6

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Halt	Path	Pest	pH	P	Sa	Qalt	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040221SK008_02	Fish Creek - source to Fish Creek Reservoir	1						1			1								1		1							52.94
ID17040221SK008_03	Fish Creek - source to Fish Creek Reservoir	1						1			1								1		1							16.48
ID17040221SK008_04	Fish Creek - source to Fish Creek Reservoir	1						1			1								1		1							1.36
ID17040221SK010_05	Little Wood River - Little Wood River Reservoir Dam to Carey	1						1			1								1		1							14.08
ID17040221SK003_05	Little Wood River - West Canal (north) to West Canal (south)	1						1			1								1		1							14.52
ID17040221SK009_03	West Fork Fish Creek - source to Fish Creek Reservoir	1						1			1								1		1							3.33
	Summary for 17040221 (10 detail records)																										*173.24*	*00001*
	Summary for Upper Snake (148 detail records)																										*2799.6*	*30006*
Grand Total																											*7725.55*	

Section 5: Impaired Waters: Lakes

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
Bear																										
HUC	*16010201*																									
ID16010201BR001_0L	Alexander Reservoir (Bear River)							1											1							1013.13
ID16010201BR018_0La	Indian Creek																		1							5.78
	Summary for 16010201 (2 detail records)																									*1018.9* *10005*
HUC	*16010202*																									
ID16010202BR008_0L	Oneida Narrows Reservoir																		1							420.08
	Summary for 16010202 (1 detail record)																									*420.07* *99865*
HUC	*16010204*																									
ID16010204BR006L_0L	Deep Creek Reservoir			1																						63.51
ID16010204BR006_02	Susan Hollow																		1							4.04
ID16010204BR006_03	Deep Creek Reservoir			1																						0.34
	Summary for 16010204 (3 detail records)																									*67.889* *99828*
	Summary for Bear (6 detail records)																									*1506.8* *79989*
Clearwater																										
HUC	*17060308*																									
ID17060308CL002_02c	Middle Fork Robinson Creek																		1							25.57
ID17060308CL002_02d	Cedar Creek			1																						6.23
ID17060308CL002_04a	Long Meadow Creek	1																	1		1					1.45
ID17060308CL002_02b	Elkberry Creek			1																						32.24
ID17060308CL002_02	Dworshak Reservoir tributaries							1																		259.66
	Summary for 17060308 (5 detail records)																									*325.15* *00051*
	Summary for Clearwater (5 detail records)																									*325.15* *00051*
Panhandle																										
HUC	*17010214*																									
ID17010214PN018L_0L	Pend Oreille Lake																									80827.85

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17010214 (1 detail record)																									*80827.85156*
HUC	*17010303*																									
ID17010303PN009L_0L	Black Lake							1																		375.59
ID17010303PN001_02	Coeur d'Alene Lake							1											1							95.46
ID17010303PN025_02	Thompson Lake																		1							6.13
	Summary for 17010303 (3 detail records)																									*477.17 99955*
	Summary for Panhandle (4 detail records)																									*81305.03155*
Salmon																										
HUC	*17060210*																									
ID17060210SL011L_0L	Brundage Reservoir																				1					214.98
	Summary for 17060210 (1 detail record)																									*214.97 99957*
	Summary for Salmon (1 detail record)																									*214.97 99957*
Southwest																										
HUC	*17050113*																									
ID17050113SW005_02	Anderson Ranch Reservoir - 1st and 2nd order			1																						81.96
	Summary for 17050113 (1 detail record)																									*81.959 99908*
HUC	*17050114*																									
ID17050114SW004_06	Lake Lowell							1			1															6056.53
	Summary for 17050114 (1 detail record)																									*6056.5 29785*
HUC	*17050122*																									
ID17050122SW002_06	Black Canyon Reservoir							1	1										1							7.52
	Summary for 17050122 (1 detail record)																									*7.5199 99980*
HUC	*17050123*																									
ID17050123SW007_02	Cascade Reservoir							1			1				1											62.11
ID17050123SW017_03	Payette Lake																				1					2.5
ID17050123SW017_02	Payette Lake - 1st and 2nd order			1																	1					38.26
	Summary for 17050123 (3 detail records)																									*102.86 99989*
HUC	*17050124*																									

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050124SW004L_0L	Crane Creek Reservoir							1											1							2315.37
ID17050124SW004_04	Crane Creek Reservoir	1						1											1		1					0.4
	Summary for 17050124 (2 detail records)																									*2315.7*
	Summary for Southwest (8 detail records)																									*70117* *8564.6* *49900*

Upper Snake

HUC 17040205

ID17040205SK021_02	Grays Lake			1																						115.98
ID17040205SK002_05	Ririe Reservoir (Willow Creek)																		1							10.24
ID17040205SK002_03	Ririe Reservoir (Willow Creek)																		1							1.94
	Summary for 17040205 (3 detail records)																									*128.16* *00031*

HUC 17040206

ID17040206SK001L_0L	American Falls Reservoir (Snake River)							1			1								1							55519.2
ID17040206SK001_05	American Falls Reservoir (Snake River)							1			1								1							4.36
	Summary for 17040206 (2 detail records)																									*55523.* *55921*

HUC 17040207

ID17040207SK009_02a	Collett Creek																		1							3.98
ID17040207SK009_03	Little Blackfoot River																		1							7.67
	Summary for 17040207 (2 detail records)																									*11.650* *00009*

HUC 17040208

ID17040208SK012L_0L	Hawkins Reservoir							1			1															66.72
	Summary for 17040208 (1 detail record)																									*66.720* *00122*

HUC 17040210

ID17040210SK020_0L	Sublett Reservoir							1			1								1							79.07
	Summary for 17040210 (1 detail record)																									*79.069* *99969*

HUC 17040211

ID17040211SK002L_0L	Lower Goose Creek Reservoir							1			1								1							1005.71
	Summary for 17040211 (1 detail record)																									*1005.7* *10021*

HUC 17040212

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040212SK028_02	Clear Lakes	1						1			1													1		22.24
ID17040212SK035_04	Pioneer Reservoir	1						1			1										1			1		229.81
	Summary for 17040212 (2 detail records)																									*252.04 99973*
HUC	*17040213*																									
ID17040213SK004_0L	Cedar Creek Reservoir	1						1			1								1					1		971.12
	Summary for 17040213 (1 detail record)																									*971.11 99951*
HUC	*17040220*																									
ID17040220SK023L_0L	Mormon Reservoir	1						1			1								1							1583.94
	Summary for 17040220 (1 detail record)																									*1583.9 39941*
HUC	*17040221*																									
ID17040221SK007L_0L	Fish Creek Reservoir	1						1			1								1							349.65
ID17040221SK012L_0L	Little Wood River Reservoir	1						1			1								1							600.46
	Summary for 17040221 (2 detail records)																									*950.11 00158*
	Summary for Upper Snake (16 detail records)																									*60572. 08919*
Grand Total																										*152488.7*

Section 5: Impaired Waters: Rivers

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
Bear																										
HUC	*16010102*																									
ID16010102BR001_05	Bear River - Idaho/Wyoming border to railroad bridge (T14N,			1																						30.87
ID16010102BR005_02	Dry Creek - source to mouth							1											1							8.23
ID16010102BR002_03	Pegram Creek - source to mouth																		1							6.27
ID16010102BR006_02	Preuss Creek - source to mouth																		1							6.07
ID16010102BR008_02	Sheep Creek - source to mouth																		1							22.65
ID16010102BR003_04	Thomas Fork - Idaho/Wyoming border to mouth							1											1							30.09
	Summary for 16010102 (6 detail records)																									*104.18 00003*
HUC	*16010201*																									
ID16010201BR002_05	Bear River -railroad bridge (T14N, R45E, Sec. 21) to Alexand							1											1							54.43
ID16010201BR002_02	Bear River -railroad bridge (T14N, R45E, Sec. 21) to Alexand							1											1							187.79
ID16010201BR002_06	Bear River -railroad bridge (T14N, R45E, Sec. 21) to Alexand							1											1							44.35
ID16010201BR002_02a	Sulpher Canyon			1																						12.23
ID16010201BR008_02	Co-op Creek - source to mouth							1											1							3.36
ID16010201BR004_03	Eightmile Creek																		1							4.43
ID16010201BR004_02a	South Wilson Creek																		1							4.65
ID16010201BR022_03a	lower Georgetown Creek												1						1							3.89

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID16010201BR022_02b	upper Georgetown Creek																		1	1						10.87
ID16010201BR022_02a	Right Hand Fork Georgetown Creek			1																						5.42
ID16010201BR011_02a	Liberty Creek			1																						6.04
ID16010201BR011_03a	middle Mill Creek												1													1.99
ID16010201BR020_02b	Whiskey Creek												1						1							5.24
ID16010201BR020_02a	Little Beaver Creek																		1							3.64
ID16010201BR020_02	Montpelier Creek - source to mouth																		1							32.08
ID16010201BR010_02	North Creek - source to mouth			1																						18.01
ID16010201BR010_02c	Meadow Creek																		1							3.15
ID16010201BR009_04	Ovid Creek - confluence of North and Mill Creek to mouth																		1							16.03
ID16010201BR013_02b	upper Paris Creek																		1							5.46
ID16010201BR013_02a	Sleight Canyon			1																						11.29
ID16010201BR005_02	lower Pearl Creek							1											1							0.51
ID16010201BR007_02	Skinner Creek - source to mouth							1											1							9.56
ID16010201BR021_02	Snowslide Creek - source to mouth																		1							5.49
ID16010201BR023_02b	lower Soda Creek											1							1							1.01
ID16010201BR015_03	Spring Creek - source to mouth							1											1							2.69
	Summary for 16010201 (25 detail records)																									*453.60* *99944*
HUC	*16010202*																									
ID16010202BR015_04	Battle Creek - source to mouth							1											1							14.56
ID16010202BR015_03	Battle Creek - source to mouth							1											1							3.03

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID16010202BR015_02	Battle Creek - source to mouth							1											1							67.76
ID16010202BR009_02a	Smith Creek												1													9.05
ID16010202BR009_02b	Alder Creek												1													17.67
ID16010202BR006_06	Bear River - Oneida Narrows Reservoir Dam to Idaho/Utah bord			1																						36.08
ID16010202BR006_02	Bear River - Oneida Narrows Reservoir Dam to Idaho/Utah bord			1																						60.23
ID16010202BR014_04	Cottonwood Creek - source to Oneida Narrows																		1							14.01
ID16010202BR003_03	Cub River - from and including Sugar Creek to US Hwy 91 Brid							1											1							9.09
ID16010202BR003_02	Cub River - from and including Sugar Creek to US Hwy 91 Brid	1		1																						32.7
ID16010202BR002_04	Cub River - US Hwy 91 Bridge (T16S, R40E, Sec. 20) to Idaho/							1											1							3.94
ID16010202BR013_02	Densmore Creek - source to mouth							1											1							22.86
ID16010202BR019_02	Fivemile Creek - source to mouth			1																						9.51
ID16010202BR019_02a	Fivemile Creek																		1							5.7
ID16010202BR021_02a	Steel Canyon																		1							0.9
ID16010202BR021_02	Jenkins Hollow																		1							12.62
ID16010202BR007_02	Mink Creek - source to mouth			1																						56.5
ID16010202BR018_02b	Swan Lake Creek												1						1							13.8
ID16010202BR018_03a	Stockton Creek												1													6.07
ID16010202BR020_02c	upper Weston Creek																		1							12.17
ID16010202BR020_02d	Trail Hollow																		1							10.74

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID16010202BR020_03	Weston Creek - source to mouth							1											1							8.3
ID16010202BR020_02	Weston Creek - source to mouth							1											1							35.17
ID16010202BR020_02a	Black Canyon																		1							15.11
ID16010202BR020_04	Weston Creek - source to mouth							1											1							4.7
ID16010202BR012_02	Whiskey Creek - source to mouth							1											1							4.74
ID16010202BR010_02	Williams Creek - source to mouth							1											1							24.54
ID16010202BR005_02	Worm Creek - source to Idaho/Utah border			1																						46.85
	Summary for 16010202 (28 detail records)																									*558.40*
HUC	*16010204*																									*00030*
ID16010204BR011_03	Dairy Creek - source to mouth												1						1							5.5
ID16010204BR011_02	Dairy Creek - source to mouth			1																						39.8
ID16010204BR005_03	Deep Creek - Deep Creek Reservoir Dam to mouth			1																						10.02
ID16010204BR007_03	Deep Creek - source to Deep Creek Reservoir			1																						1.01
ID16010204BR007_02	Deep Creek - source to Deep Creek Reservoir			1																						5.05
ID16010204BR002_02	Devil Creek - Devil Creek Reservoir Dam to mouth							1											1							10.01
ID16010204BR002_03	Devil Creek - Devil Creek Reservoir Dam to mouth												1						1							25.2
ID16010204BR002_02a	Campbell Creek												1						1							2.86
ID16010204BR002_02c	Evans Creek																		1							2.63
ID16010204BR008_02	Little Malad River - Daniels Reservoir Dam to mouth			1																						122.64
ID16010204BR008_04	Little Malad River - Daniels Reservoir Dam to mouth												1						1							24.55

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID16010204BR001_04	Malad River - Little Malad River to Idaho/Utah border												1						1							21.48
ID16010204BR001_02d	Henderson Creek																		1							4.97
ID16010204BR001_02c	West Cherry Creek																		1							4.52
ID16010204BR001_02b	Four Mile Canyon																		1							7.59
ID16010204BR012_02	Malad River - source to Little Malad River																		1							47.32
ID16010204BR013_03	Samaria Creek - source to mouth							1											1							4.58
ID16010204BR013_02	Samaria Creek - source to mouth							1											1							29.73
ID16010204BR010_04	Wright Creek - source to Daniels Reservoir																		1							4.16
ID16010204BR010_03	middle Wright Creek												1						1							2.72
ID16010204BR010_02a	Indian Mill Creek			1																						4.56
	Summary for 16010204 (21 detail records)																									*380.89* *99979*
HUC	*16020309*																									
ID16020309BR002_02a	Sheep Creek												1						1							13.37
ID16020309BR003_02a	Meadow Brook Creek																		1							28.93
ID16020309BR003_03a	Rock Creek																		1							3.72
	Summary for 16020309 (3 detail records)																									*46.020* *00021*
	Summary for Bear (83 detail records)																									*1543.1* *09995*
Clearwater																										
HUC	*17060108*																									
ID17060108CL027a_02	Big Creek - source to T42N, R03W, Sec. 08	1						1											1		1					5.23
ID17060108CL027b_02	Big Creek - T42N, R03W, Sec. 08 to mouth	1						1											1		1					15.49
ID17060108CL001_02	Cow Creek - source to Idaho/Washington border							1													1					84.63
ID17060108CL001_03	Cow Creek - source to Idaho/Washington border							1													1					10.71

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060108CL032a_03	Deep Creek - source to T42, R05, Sec. 02	1						1											1		1					0.63
ID17060108CL032a_02	Deep Creek - source to T42, R05, Sec. 02	1						1											1		1					23.76
ID17060108CL032b_03	Deep Creek - T42, R05, Sec. 02 to mouth	1						1											1		1					6.18
ID17060108CL014a_02	East Fork Rock Creek - source to T41N, R 04W, Sec. 29	1						1											1		1					2.22
ID17060108CL014b_02	East Fork Rock Creek - T41N, R 04W, Sec. 29 to mouth	1						1											1		1					1.67
ID17060108CL011a_02	Flannigan Creek - source to T41N, R05W, Sec. 23	1						1											1		1					18.03
ID17060108CL011a_03	Flannigan Creek - source to T41N, R05W, Sec. 23	1						1											1		1					3.06
ID17060108CL011b_03	Flannigan Creek - T41N, R05W, Sec. 23 to mouth	1						1											1		1					3.71
ID17060108CL030_02	Gold Creek - source to T42N, R04W, Sec. 28	1						1											1		1					19.96
ID17060108CL029_03	Gold Creek - T42N, R04W, Sec. 28 to mouth	1						1											1		1					1.78
ID17060108CL015a_02	Hatter Creek - source to T40N, R04W, Sec. 3	1						1											1		1					17.3
ID17060108CL015b_03	Hatter Creek - T40N, R04W, Sec. 3 to mouth	1						1											1		1					5.23
ID17060108CL012_03	Rock Creek - confluence of West and East Fork Rock Creeks to	1						1											1		1					1.73
ID17060108CL002_03	South Fork Palouse River - Gnat Creek to Idaho/Washington bo	1						1											1		1					8.25
ID17060108CL003_03	South Fork Palouse River - source to Gnat Creek	1						1											1		1					1.92
ID17060108CL003_02	South Fork Palouse River - source to Gnat Creek	1						1											1		1					14.51

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060108CL013a_02	West Fork Rock Creek - source to T41N, R04W, Sec. 30	1						1											1		1					5.68
ID17060108CL013b_03	West Fork Rock Creek - T41N, R04W, Sec. 30 to mouth	1						1											1		1					1.4
	Summary for 17060108 (22 detail records)																									*253.07* *99961*
HUC	*17060303*																									
ID17060303CL010_02	Boulder Creek - source to mouth																				1					41.18
ID17060303CL010_04	Boulder Creek - source to mouth																				1					4
ID17060303CL062_03	Canyon Creek - source to mouth																				1					0.63
ID17060303CL062_02	Canyon Creek - source to mouth																				1					26.43
ID17060303CL059_03	Deadman Creek - East Fork Deadman Creek to mouth																				1					2.17
ID17060303CL061_02	Deadman Creek - source to East Fork Deadman Creek																				1					8.67
ID17060303CL052_03	Fish Creek - Hungery Creek to mouth																				1					0.09
ID17060303CL052_04	Fish Creek - Hungery Creek to mouth																				1					4.62
ID17060303CL057_03	Fish Creek - source to Hungery Creek																				1					8.41
ID17060303CL020_05	Lochsa River - confluence of Crooked Fork, White Sand Creek,																				1					13.11
ID17060303CL001_02	Lochsa River - Deadman Creek to mouth																				1					27.96
ID17060303CL001_05	Lochsa River - Deadman Creek to mouth																				1					10.14
ID17060303CL008_05	Lochsa River - Fish Creek to Old Man Creek																				1					6.93
ID17060303CL009_05	Lochsa River - Indian Grave Creek to Fish Creek																				1					19.53

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060303CL003_05	Lochsa River - Old Man Creek to Deadman Creek																				1					0.28
ID17060303CL003_03	Lochsa River - Old Man Creek to Deadman Creek																				1					6.66
ID17060303CL013_05	Lochsa River- Warm Springs Creek to Indian Grave Creek																				1					11.96
ID17060303CL063_03	Pete King Creek - Walde Creek to mouth																				1					5.5
ID17060303CL063_02	Pete King Creek - Walde Creek to mouth																				1					12.72
ID17060303CL032_02	Storm Creek - source to mouth																				1					42.03
ID17060303CL032_03	Storm Creek - source to mouth																				1					4.81
ID17060303CL064_02	Walde Creek - source to mouth																				1					12.46
	Summary for 17060303 (22 detail records)																									*270.28* *99990*
HUC	*17060305*																									
ID17060305CL052_04	American River - East Fork American River to mouth																				1					9.47
ID17060305CL052_02	American River - East Fork American River to mouth																				1					10.6
ID17060305CL055_02	American River - source to East Fork American River																				1					33.69
ID17060305CL055_03	American River - source to East Fork American River																				1					5.62
ID17060305CL070_02	Baldy Creek - source to mouth																				1					8.02
ID17060305CL063_02	Bear Creek - source to mouth																				1					8.01
ID17060305CL065_02	Beaver Creek - source to mouth																		1		1					6.66
ID17060305CL058_03	Big Elk Creek - source to mouth																				1					4.36
ID17060305CL058_02	Big Elk Creek - source to WF Big Elk Creek																				1					15.34

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL047_02	Bridge Creek - source to mouth																				1					7.18
ID17060305CL059_02	Buffalo Gulch - source to mouth																		1		1					6.49
ID17060305CL011_02	Butcher Creek - source to mouth	1									1								1		1					18.88
ID17060305CL079_02	Cougar Creek - source to mouth																		1		1					17.05
ID17060305CL032_02	Crooked River - confluence of West and East Fork Crooked Riv																				1					29.48
ID17060305CL032_03	Crooked River - confluence of WF and EF Crooked Riv																				1					4.21
ID17060305CL031_02	Crooked River - Relief Creek to mouth																				1					12.45
ID17060305CL031_03	Crooked River - Relief Creek to mouth																				1					4.72
ID17060305CL054_02	East Fork American River - source to mouth																				1					30.97
ID17060305CL054_03	East Fork American River - source to mouth																				1					2.13
ID17060305CL034_02	East Fork Crooked River - source to mouth																				1					12
ID17060305CL056_03	Elk Creek - confluence of Big Elk and Little Elk Creeks to m																				1					2.35
ID17060305CL056_02	Elk Creek - confluence of Big Elk and Little Elk Creeks to m																				1					2.04
ID17060305CL076_02	Fall Creek - source to mouth																				1					7.77
ID17060305CL015_03	Gospel Creek - source to mouth																				1					1.96
ID17060305CL069_02	Haysfork Creek - source to mouth																				1					9.5
ID17060305CL014_02	Johns Creek - tributaries																				1					42.62
ID17060305CL014_04	Johns Creek - Gospel Creek to mouth																				1					9.48

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL017_02	Johns Creek - Moores Creek to Gospel Creek																				1					15.01
ID17060305CL017_03	Johns Creek - Moores Creek to Gospel Creek																				1					3.84
ID17060305CL053_02	Kirks Fork - source to mouth																				1					15.75
ID17060305CL053_03	Kirks Fork - source to mouth																				1					1.3
ID17060305CL075_02	Leggett Creek - source to mouth																				1					11.86
ID17060305CL057_02	Little Elk Creek - source to mouth																				1					12.68
ID17060305CL009_02	Long Haul Creek - source to mouth			1																						14.99
ID17060305CL061_02	Maurice Creek - source to mouth																				1					2.64
ID17060305CL080_03	Meadow Creek - NF Meadow Cr to mouth																				1					6.76
ID17060305CL080_02	Meadow Creek - source to and inc. NF Meadow Cr.																				1					41.01
ID17060305CL013_02	Mill Creek - source to mouth																				1					36.23
ID17060305CL013_03	Mill Creek - Merton Creek to mouth																				1					8.45
ID17060305CL039_02	Moose Butte Creek - source to, and including Hays Cr.																				1					12.52
ID17060305CL039_03	Moose Butte Creek - source to mouth																				1					2.64
ID17060305CL067_02	Mule Creek - source to mouth																				1					13.2
ID17060305CL067_03	Mule Creek - source to mouth																				1					0.57
ID17060305CL062_02	Newsome Creek - Beaver Creek to mouth																		1		1					5.5
ID17060305CL062_04	Newsome Creek - Beaver Creek to mouth																		1		1					6.92
ID17060305CL066_04	Newsome Creek - Mule Creek to Beaver Creek																				1					2.26
ID17060305CL068_03	Newsome Creek - source to Mule Creek																				1					0.48

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL068_02	Newsome Creek - source to Mule Creek																				1					15.2
ID17060305CL064_02	Nugget Creek - source to mouth																		1		1					4.55
ID17060305CL048_02	Otterson Creek - source to mouth																				1					6.17
ID17060305CL078_02	Peasley Creek - source to mouth																				1					22.28
ID17060305CL071_03	Pilot Creek - unnamed tributary to mouth																				1					2.84
ID17060305CL071_02	Pilot Creek - source to mouth																				1					7.6
ID17060305CL082_02	Rabbit Creek - source to mouth																				1					11.17
ID17060305CL051_02	Red Horse Creek - source to mouth																				1					14.03
ID17060305CL045_02	Red River - source to South Fork Red River																				1					32.48
ID17060305CL045_03	Red River - Unnamed tributary to South Fork Red River																				1					10.89
ID17060305CL038_02	Red River - South Fork Red River to Siegel Creek																		1		1					27.12
ID17060305CL038_02a	Little Moose Creek - source to mouth																				1					8.88
ID17060305CL038_04	Red River - South Fork Red River to Siegel Creek																				1					7.62
ID17060305CL037_02	Red River- Siegel Creek to mouth																				1					17.13
ID17060305CL037_04	Red River- Siegel Creek to mouth																				1					7.82
ID17060305CL005_03	Red Rock Creek - source to Red Rock Creek waterfall (3.6 mil																		1							3.48
ID17060305CL035_02	Relief Creek - source to mouth																				1					13.46
ID17060305CL081_03	Sally Ann Creek - Wall Creek to mouth																				1					0.6

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL081_02	Sally Ann Creek - source to and inc. Wall Creek																				1					17.74
ID17060305CL072_02	Sawmill Creek - source to mouth																				1					6.02
ID17060305CL007_03	Shebang Creek - source to mouth			1																						7.72
ID17060305CL007_02	Shebang Creek - source to mouth			1																						34.33
ID17060305CL050_02	Siegel Creek - source to mouth																				1					13.61
ID17060305CL077_03	Silver Creek - unnamed tributary to mouth																				1					1.87
ID17060305CL077_02a	Silver Creek - headwaters and tributaries																				1					29.49
ID17060305CL077_02	Silver Creek - source to mouth																				1					9.6
ID17060305CL073_02	Sing Lee Creek - source to mouth																		1		1					4.51
ID17060305CL029_02	Sixmile Creek - source to mouth																				1					12.79
ID17060305CL029_03	Sixmile Creek - source to mouth																				1					1.03
ID17060305CL046_02	Soda Creek - source to mouth																				1					7.95
ID17060305CL001_05	South Fork Clearwater River - Butcher Creek to mouth																		1		1					12.6
ID17060305CL001_02	South Fork Clearwater River - Butcher Creek to mouth																		1		1					25.7
ID17060305CL036_05	South Fork Clearwater River - confluence of American River a																		1		1					6.69
ID17060305CL036_02	South Fork Clearwater River - confluence of American River a																		1		1					2.49

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL030_05	South Fork Clearwater River - Crooked River to Tenmile Creek																		1		1					11.76
ID17060305CL030_02	South Fork Clearwater River - Crooked River to Tenmile Creek																		1		1					28.39
ID17060305CL012_05	South Fork Clearwater River - Johns Creek to Butcher Creek																		1		1					23.17
ID17060305CL012_02a	Schwartz Creek																		1		1					44.47
ID17060305CL012_02	South Fork Clearwater River - sidewall tributaries																		1		1					46.75
ID17060305CL022_02a	Granite Creek																				1					4.08
ID17060305CL022_05	South Fork Clearwater River - Tenmile Creek to Johns Creek																		1		1					11.78
ID17060305CL022_02	Huddleson Creek and tributaries																		1		1					33.91
ID17060305CL008_02	South Fork Cottonwood Creek - source to mouth	1																								24.98
ID17060305CL008_03	South Fork Cottonwood Creek - source to mouth	1																								5.02
ID17060305CL043_02	South Fork Red River - source to West Fork Red River																				1					7.91
ID17060305CL040_02	South Fork Red River - Trapper Creek to mouth																				1					3.38
ID17060305CL040_03	South Fork Red River - Trapper Creek to mouth																				1					3.02
ID17060305CL041_02	South Fork Red River - West Fork Red River to Trapper Creek																				1					4.11
ID17060305CL041_03	South Fork Red River - West Fork Red River to Trapper Creek																				1					3.74
ID17060305CL025_04	Tenmile Creek - Sixmile Creek to mouth																				1					3.67

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060305CL025_02	Tenmile Creek - Sixmile Creek to mouth																				1					2.75
ID17060305CL027_02	Tenmile Creek - source to Williams Creek																				1					21.73
ID17060305CL026_02	Tenmile Creek - Williams Creek to Sixmile Creek																				1					12.5
ID17060305CL026_03	Tenmile Creek - Williams Creek to Sixmile Creek																				1					2.45
ID17060305CL010_03	Threemile Creek - Unnamed tributary to mouth	1						1			1								1		1			1		2.18
ID17060305CL010_02	Threemile Creek - source to unnamed tributary	1						1			1								1		1			1		47.67
ID17060305CL049_02	Trail Creek - source to mouth																				1					9.37
ID17060305CL044_02	Trapper Creek - source to mouth																				1					13.83
ID17060305CL024_03	Twentymile Creek - unnamed tributary to mouth																				1					3.17
ID17060305CL024_02	Twentymile Creek - source to mouth																				1					24.75
ID17060305CL033_02	West Fork Crooked River - source to mouth																				1					13.51
ID17060305CL074_02	West Fork Newsome Creek - source to mouth																				1					4.25
ID17060305CL074_02a	West Fork Newsome Creek																				1					2.95
ID17060305CL042_03	West Fork Red River - source to mouth																				1					0.74
ID17060305CL042_02	West Fork Red River - source to mouth																				1					14.14
ID17060305CL060_02	Whiskey Creek - source to mouth																				1					4.2
ID17060305CL028_02	Williams Creek - source to mouth																				1					11.67
ID17060305CL023_02	Wing Creek - source to Little Wing Creek																				1					9.58
ID17060305CL023_03	Wing Creek - Little Wing Creek to mouth																				1					1.41

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17060305 (116 detail records)																									*1408.1 09994*
HUC	*17060306*																									
ID17060306CL041_03	Bedrock Creek - source to mouth			1																						5.82
ID17060306CL041_02	Bedrock Creek - source to mouth	1						1	1		1								1		1			1		19.94
ID17060306CL056_05	Big Bear Creek - confluence of West and East Fork Big Bear C																				1					1.01
ID17060306CL056_04	Big Bear Creek - confluence of West and East Fork Big Bear C																				1					17.06
ID17060306CL047_03	Boulder Creek - source to mouth			1																						4.14
ID17060306CL066_02	Catholic Creek - source to mouth			1																						16.11
ID17060306CL013_07	Clearwater River - North Fork Clearwater River to mouth																					1				25.77
ID17060306CL013_03	Clearwater River - North Fork Clearwater River to mouth																					1				0.06
ID17060306CL002_07	Clearwater River - Potlatch River to Lower Granite Dam pool	1						1		1	1								1		1			1		10.09
ID17060306CL054_02	Corral Creek - source to mouth																		1							22.29
ID17060306CL054_03	Corral Creek - source to mouth																		1							7.57
ID17060306CL051_04	East Fork Potlatch River - source to mouth	1						1											1		1					4.73
ID17060306CL036_03	Grasshopper Creek - source to mouth																		1							4.3
ID17060306CL067_02	Hatwai Creek - source to mouth	1						1													1					39.65
ID17060306CL019_02	Holes Creek - source to mouth	1					1	1	1	1	1			1					1					1		26.12

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060306CL019_03	Holes Creek - source to mouth	1					1	1	1	1	1			1					1					1		2.71
ID17060306CL031_03	Jim Brown Creek - source to mouth	1						1											1		1					9.84
ID17060306CL031_02	Jim Brown Creek - source to mouth	1						1											1		1					44.63
ID17060306CL034_04	Jim Ford Creek - Jim Ford Creek waterfall (12.5 miles upstre																		1							12.21
ID17060306CL008_03	Lapwai Creek - Winchester Lake to Sweetwater Creek			1																						16.48
ID17060306CL008_04	Lapwai Creek - Winchester Lake to Sweetwater Creek	1						1			1								1		1					3.6
ID17060306CL024_03	Lawyer Creek - source to mouth	1						1	1		1								1		1			1		20.48
ID17060306CL024_02	Lawyer Creek - source to mouth	1						1	1		1								1		1			1		239.16
ID17060306CL003_03	Lindsay Creek - source to mouth	1						1			1								1		1					3.64
ID17060306CL003_02	Lindsay Creek - source to mouth	1						1			1								1		1					23.78
ID17060306CL028_04	Lolo Creek - source to Yakus Creek	1						1											1		1					14.04
ID17060306CL026_02	Lolo Creek - Yakus Creek to mouth	1		1				1	1			1							1		1					70.91
ID17060306CL020_03	Long Hollow Creek - source to mouth	1						1			1								1							4.04
ID17060306CL020_02	Long Hollow Creek - source to mouth			1																						32.61
ID17060306CL062_02	Middle Potlatch Creek - source to mouth	1						1											1		1					45.85
ID17060306CL062_03	Middle Potlatch Creek - source to mouth	1						1											1		1					14.47
ID17060306CL053_02	Moose Creek - source to mouth	1						1							1				1		1					15.72
ID17060306CL053_03	Moose Creek - source to mouth	1						1							1				1		1					3.7

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060306CL039_02	Shanghai Creek - and tributaries			1																						144.77
ID17060306CL039_03	Orofino Creek, including Rhodes, Cow Creek																				1					18.7
ID17060306CL043_03	Pine Creek - source to mouth							1	1										1					1		6.43
ID17060306CL043_02	Pine Creek - source to mouth	1						1			1								1		1					25.2
ID17060306CL055_03	Pine Creek - source to mouth	1						1											1		1					3.87
ID17060306CL055_02	Pine Creek - source to mouth	1						1											1		1					35.97
ID17060306CL044_06	Potlatch River - Big Bear Creek to mouth	1						1	1	1	1			1					1		1			1		16.36
ID17060306CL045_05	Potlatch River - Corral Creek to Big Bear Creek	1						1											1		1					18.48
ID17060306CL048_04	Potlatch River - Moose Creek to Corral Creek	1						1											1		1					6.66
ID17060306CL048_05	Potlatch River - Moose Creek to Corral Creek	1						1											1		1					7.7
ID17060306CL049_04	Potlatch River - source to Moose Creek	1						1											1		1					3.71
ID17060306CL049_03	Potlatch River - source to Moose Creek	1						1											1		1					5.3
ID17060306CL049_02	Potlatch River - headwaters and tribs	1						1											1		1					61.71
ID17060306CL052_03	Ruby Creek - source to mouth	1						1											1		1					2.14
ID17060306CL025_03	Sevenmile Creek - source to mouth																		1							2.43
ID17060306CL025_02	Sevenmile Creek - source to mouth																		1							23.59
ID17060306CL023_03	Sixmile Creek - source to mouth	1						1	1	1	1			1					1		1			1		0.66
ID17060306CL023_02	Sixmile Creek - source to mouth	1						1	1	1	1			1					1		1			1		32.7
ID17060306CL006_02	Sweetwater Creek - source to Webb Creek	1						1			1			1					1		1					47.72

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060306CL006_03	Sweetwater Creek - source to Webb Creek	1						1		1	1			1					1		1					3.16
ID17060306CL006_04	Sweetwater Creek - source to Webb Creek	1						1		1	1			1					1		1					6.74
ID17060306CL007_02	Webb Creek - source to mouth	1						1			1								1		1					34.87
ID17060306CL040_02a	Whiskey Creek			1																						20.81
ID17060306CL027_02	Yakus Creek - source to mouth																		1							20.63
	Summary for 17060306 (57 detail records)																									*1332.8 40018*
HUC	*17060307*																									
ID17060307CL048_03	Collins Creek - source to mouth																				1					5.83
ID17060307CL039_02	Elizabeth Creek - source to mouth																				1					8.85
ID17060307CL007_02b	Hem Creek																				1					9.96
ID17060307CL010_02	Hemlock Creek - source to mouth																				1					39.51
ID17060307CL033_03	Lake Creek - source to mouth																				1					4.85
ID17060307CL029_02	Little Moose Creek - source to mouth																				1					21.22
ID17060307CL044_03	Quartz Creek - source to mouth																				1					6.22
ID17060307CL043_02	Rock Creek - source to mouth																				1					15.88
ID17060307CL046_04	Skull Creek - Collins Creek to mouth																				1					3.91
ID17060307CL047_04	Skull Creek - source to Collins Creek																				1					5.06
ID17060307CL003_03	Washington Creek - source to mouth																				1					8.87
ID17060307CL011_04	Weitas Creek - Windy Creek to Hemlock Creek																				1					10.31
	Summary for 17060307 (12 detail records)																									*140.46 99981*

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
HUC	*17060308*																									
ID17060308CL005_02	Alder Creek - source to mouth																		1							30.89
ID17060308CL009_02c	Bingo Creek																				1					2.77
ID17060308CL009_02e	Beaver Creek - headwater																				1					4.73
ID17060308CL009_03	Beaver Creek - source to mouth																				1					5.65
ID17060308CL009_04	Beaver Creek - source to mouth																				1					7.7
ID17060308CL025_02	Breakfast Creek - source to Stony Creek																				1					10.04
ID17060308CL021_03a	Floodwood Creek - Pinchot Creek to Goat Creek																				1					1.66
ID17060308CL021_02a	Floodwood Creek - headwaters to Pinchot Creek																				1					8.23
ID17060308CL021_03	Floodwood Creek - Goat Creek to Breakfast Creek																				1					9.94
ID17060308CL010_02c	Fern Creek - and tributaries																				1					8.46
ID17060308CL010_03	Isabella Creek - Elmer/Jug Creek to mouth																				1					5.4
ID17060308CL034_03	Meadow Creek, McGary Creek to Three Bear Creek.												1													7.7
ID17060308CL001_06	N F Clearwater Segment (Dworshak Reservoir Dam to Mou																					1				1.96
ID17060308CL003_04	Reeds Creek - Gold Creek to Dworshak Reservoir																				1					1.85
ID17060308CL003_03	Reeds Creek - Alder Creek to Gold Creek																				1					3.35
ID17060308CL004_03	Reeds Creek - Deer Creek to Alder Creek																				1					8.05
ID17060308CL004_02	Reeds Creek - source to Deer Creek, inc. tribs																				1					29.23
ID17060308CL020_04	Stony Creek - Glover Creek to Breakfast Creek																				1					3.68

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060308CL020_04a	Breakfast Creek - Stony Creek to Dworshak																				1					1.91
ID17060308CL023_03	Stony Creek - unnamed trib to Glover Creek																				1					5.79
ID17060308CL023_02a	Stony Creek																				1					2.77
ID17060308CL023_02	Stony Creek - source to Glover; tributaries																				1					21.44
	Summary for 17060308 (22 detail records)																									*183.19*
	Summary for Clearwater (251 detail records)																									*99984* *3587.9* *90004*

Panhandle

HUC	17010104																									
ID17010104PN011_02	Ball Creek - source to mouth																				1					35.37
ID17010104PN004_02	Blue Joe Creek - source to Idaho/Canadian border						1								1				1		1					15.44
ID17010104PN032_03	Boulder Creek - East Fork Boulder Creek to mouth																		1		1					4.19
ID17010104PN032_02	Boulder Creek - East Fork Boulder Creek to mouth																				1					10.77
ID17010104PN033_02	Boulder Creek - source to East Fork Boulder Creek																		1							37.32
ID17010104PN033_03	Boulder Creek - source to East Fork Boulder Creek																		1							9.74
ID17010104PN002_03	Boundary Creek - Idaho/Canadian border to mouth			1			1														1					3.97
ID17010104PN002_02	Boundary Creek - Idaho/Canadian border to mouth						1																			20.6
ID17010104PN027_02	Brown Creek - source to mouth																				1					14.19
ID17010104PN027_03	Brown Creek - source to mouth																				1					2.37
ID17010104PN017_02	Caribou Creek - source to mouth																		1	1	1					10.88

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010104PN014_02	Cascade Creek - source to mouth																				1					3.58
ID17010104PN030_03	Cow Creek - source to mouth			1																						2.76
ID17010104PN006_02	Cow Creek - source to mouth																		1							16.85
ID17010104PN006_03	Cow Creek - source to mouth																		1	1	1					2.16
ID17010104PN035_03	Curley Creek - source to mouth																				1					8.6
ID17010104PN018_04	Deep Creek - Brown Creek to Snow Creek																		1		1					4.91
ID17010104PN022_03	Deep Creek - McArthur Lake to Trail Creek																		1		1					6.58
ID17010104PN015_04	Deep Creek - Snow Creek to mouth																		1	1	1					4.31
ID17010104PN025_02	Deep Creek - source to McArthur Lake																				1					9.38
ID17010104PN019_04	Deep Creek - Trail Creek to Brown Creek																		1	1	1					4.63
ID17010104PN024_04	Dodge Creek - source to mouth																				1					8.25
ID17010104PN024_02	Dodge Creek - source to mouth																				1					4.65
ID17010104PN021_03	Fall Creek - source to mouth			1																	1					8.07
ID17010104PN036_02	Flemming Creek - source to mouth																				1					27.65
ID17010104PN036_03	Flemming Creek - source to mouth																				1					3.49
ID17010104PN003_02	Grass Creek - source to Idaho/Canadian border																				1					27.34
ID17010104PN003_03	Grass Creek - source to Idaho/Canadian border																				1					7.73
ID17010104PN012_08	Kootenai River - Deep Creek to and including Shorty's Island																				1					5.74
ID17010104PN031_08	Kootenai River - Idaho/Montana to Moyie River																				1					10.26

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010104PN031_05	Kootenai River - Idaho/Montana to Moyie River																		1							0.55
ID17010104PN029_08	Kootenai River - Moyie River to Deep Creek																				1					13.16
ID17010104PN001_02	Kootenai River - Shorty's Island to the Idaho/Canadian borde																				1					70.78
ID17010104PN001_08	Kootenai River - Shorty's Island to the Idaho/Canadian borde																				1					36.89
ID17010104PN008_02	Long Canyon Creek - source to mouth																				1					29.81
ID17010104PN038_03	Mission Creek - Brush Creek to mouth																				1					2.87
ID17010104PN040_03	Mission Creek - Idaho/Canadian border to Brush Creek																				1					9.06
ID17010104PN040_02	Mission Creek - Idaho/Canadian border to Brush Creek																				1					9.95
ID17010104PN013_03	Myrtle Creek - source to mouth																				1					11.2
ID17010104PN009_03	Parker Creek - source to mouth																				1					0.65
ID17010104PN037_02	Rock Creek - source to mouth																				1					20.9
ID17010104PN037_03	Rock Creek - source to mouth																				1					1.33
ID17010104PN020_03	Ruby Creek - source to mouth																				1					1.6
ID17010104PN005_04	Smith Creek - Cow Creek to mouth																				1					7.87
ID17010104PN007_03	Smith Creek - source to Cow Creek																				1					4.99
ID17010104PN016_02	Snow Creek - source to mouth																				1					12.27

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010104PN016_03	Snow Creek - source to mouth																				1					7.57
ID17010104PN026_03	Trail Creek - source to mouth																				1					3.48
ID17010104PN010_03	Trout Creek - source to mouth																				1					5.86
ID17010104PN028_02	Twentymile Creek - source to mouth																				1					11.92
	Summary for 17010104 (50 detail records)																									*594.48* *99963*
HUC	*17010105*																									
ID17010105PN007_02	Canuck Creek - Idaho/Montana border to Idaho/Canadian border																				1					11.59
ID17010105PN004_02	Deer Creek - source to mouth																				1					30.94
ID17010105PN004_03	Deer Creek - source to mouth																				1					6.26
ID17010105PN009_02	Gillon Creek - Idaho/Canadian border to mouth																				1					7.34
ID17010105PN012_02	Meadow Creek - source to mouth																				1					22.65
ID17010105PN012_03	Meadow Creek - source to mouth																				1					2.63
ID17010105PN011_02	Miller Creek - source to mouth																				1					3.69
ID17010105PN006_02	Moyie River - Idaho/Canadian border to Round Prairie Creek			1																	1					22.86
ID17010105PN002_02	Moyie River - Meadow Creek to Moyie Falls Dam																				1					9.19
ID17010105PN001_05	Moyie River - Moyie Falls Dam to mouth																			1	1					1.88
ID17010105PN010_03	Round Prairie Creek - source to Gillon Creek																				1					2.96
ID17010105PN003_02	Skin Creek - Idaho/Montana border to mouth																				1					8.81
	Summary for 17010105 (12 detail records)																									*130.80* *00015*
HUC	*17010213*																									

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010213PN012_02	Cascade Creek - source to mouth																				1					7.39
ID17010213PN003_08	Clark Fork River - Cabinet Gorge Dam to Mosquito Creek																					1				9.8
ID17010213PN005_08	Clark Fork River - Idaho/Montana border to Cabinet Gorge Dam			1																	1					0.55
ID17010213PN001_08	Clark Fork River Delta - Mosquito Creek to Pend Oreille Lake						1														1	1				11.27
ID17010213PN004_02	Dry Creek - source to mouth																				1					23.54
ID17010213PN004_03	Dry Creek - source to mouth																				1					3.45
ID17010213PN014_02	East Fork Creek - Idaho/Montana border to mouth																		1		1					5.24
ID17010213PN014_03	East Fork Creek - Idaho/Montana border to mouth																		1		1					0.92
ID17010213PN002_02	Johnson Creek - source to mouth																		1		1					15.31
ID17010213PN002_03	Johnson Creek - source to mouth																		1		1					2.12
ID17010213PN011_02	Lightning Creek - Cascade Creek to Spring Creek			1																	1					0.22
ID17010213PN011_04	Lightning Creek - Cascade Creek to Spring Creek			1																	1					2.66
ID17010213PN013_02	Lightning Creek - East Fork Creek to Cascade Creek			1																	1					6.8
ID17010213PN013_04	Lightning Creek - East Fork Creek to Cascade Creek			1																	1					6.87
ID17010213PN017_03	Lightning Creek - Rattle Creek to Wellington Creek			1																	1					2.72
ID17010213PN017_02	Lightning Creek - Rattle Creek to Wellington Creek			1																	1					2.78
ID17010213PN019_03	Lightning Creek - source to Rattle Creek			1																	1					2.13

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010213PN019_02	Lightning Creek - source to Rattle Creek			1																	1					18.37
ID17010213PN010_04	Lightning Creek - Spring Creek to mouth			1																	1					1.51
ID17010213PN016_02	Lightning Creek - Wellington Creek to East Fork Creek			1																	1					15.18
ID17010213PN016_03	Lightning Creek - Wellington Creek to East Fork Creek			1																	1					4.78
ID17010213PN009_02	Mosquito Creek - source to mouth																				1					8.77
ID17010213PN018_02	Rattle Creek - source to mouth																				1					10.41
ID17010213PN015_02	Savage Creek - Idaho/Montana border to mouth																				1					2.85
ID17010213PN020_02	Wellington Creek - source to mouth																				1					7.91
	Summary for 17010213 (25 detail records)																									*173.55*
																										00032
HUC	*17010214*																									
ID17010214PN026_02	Cedar Creek - source to mouth																				1					9.48
ID17010214PN024_02	Chloride Creek - source to mouth																				1					7.14
ID17010214PN012_04	Cocolalla Creek - Cocolalla Lake to mouth																				1					7.69
ID17010214PN014_04	Cocolalla Creek - source to Cocolalla Lake																				1					0.2
ID17010214PN014_03	Cocolalla Creek - source to Cocolalla Lake																				1					9.2
ID17010214PN015_03	Fish Creek - source to mouth																				1					2.37
ID17010214PN034_02	Gold Creek - source to mouth			1																	1					17.8
ID17010214PN023_03	Gold Creek - source to West Gold Creek																				1					1.16
ID17010214PN023_02	Gold Creek - source to West Gold Creek																				1					6.92

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010214PN021_03	Gold Creek - West Gold Creek to mouth																				1					1.67
ID17010214PN021_02	Gold Creek - West Gold Creek to mouth																				1					4.63
ID17010214PN027_02	Granite Creek - source to mouth																				1					26.56
ID17010214PN027_03	Granite Creek - source to mouth																				1					4.68
ID17010214PN035_03	Grouse Creek - North Fork Grouse Creek to mouth																				1					9.4
ID17010214PN035_02	Grouse Creek - North Fork Grouse Creek to mouth																				1					3.34
ID17010214PN036_02	Grouse Creek - source to North Fork Grouse Creek																				1					28.57
ID17010214PN036_03	Grouse Creek - source to North Fork Grouse Creek																				1					6.81
ID17010214PN044_02	Hellroaring Creek - source to mouth			1																	1					10.93
ID17010214PN003_03	Hoodoo Creek - source to mouth																				1					3.53
ID17010214PN003_02	Hoodoo Creek - source to mouth																				1					15.68
ID17010214PN003_02a	Hoodoo Creek																				1					15.68
ID17010214PN043_02	Jeru Creek - source to mouth																				1					6.33
ID17010214PN042_02	McCormick Creek - source to mouth			1																	1					10.79
ID17010214PN037_02	North Fork Grouse Creek - source to mouth																				1					17.43
ID17010214PN025_03	North Gold Creek - source to mouth																		1							2.29
ID17010214PN025_02	North Gold Creek - source to mouth																		1							17.14
ID17010214PN002_02	Pend Oreille River - Pend Oreille Lake to Priest River																		1		1	1				34.05
ID17010214PN002_03	Pend Oreille River - Pend Oreille Lake to Priest River																		1		1	1				7.68

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010214PN002_08	Pend Oreille River - Pend Oreille Lake to Priest River																		1		1	1				22.73
ID17010214PN001_02	Pend Oreille River - Priest River to Albeni Falls Dam																		1		1	1				10.28
ID17010214PN001_08	Pend Oreille River - Priest River to Albeni Falls Dam																		1		1	1				3.36
ID17010214PN033_03	Rapid Lightning Creek - source to mouth			1																	1					7.8
ID17010214PN048_03	Sand Creek - Schweitzer Creek to mouth																				1					4.04
ID17010214PN049_03	Sand Creek - source to Schweitzer Creek			1																						3.54
ID17010214PN049_02	Sand Creek - source to Schweitzer Creek			1																						15.93
ID17010214PN052_02	Schweitzer Creek - source to mouth																		1							6.74
ID17010214PN030_02	Trestle Creek - source to mouth																				1					20.99
ID17010214PN032_02	Trout Creek - source to mouth																				1					10.13
ID17010214PN039_04	Upper Pack River - Lindsey Creek to Sand Creek																				1					3.8
ID17010214PN041_02	Upper Pack River - source to and including Lindsey Creek			1																	1					56.16
ID17010214PN022_02	West Gold Creek- source to mouth																				1					9.62
	Summary for 17010214 (41 detail records)																									*464.26* *99954*
HUC	*17010215*																									
ID17010215PN020_03	Beaver Creek - source to mouth																				1					1.66
ID17010215PN026_02	Binarch Creek - Idaho/Washington border to mouth																				1					13.16
ID17010215PN028_03	Goose Creek - Idaho/Washington border to mouth												1													5.23

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010215PN022_04	Granite Creek - Idaho/Washington border to mouth																				1					13.94
ID17010215PN019_02	Hughes Fork - source to mouth																				1					57.11
ID17010215PN019_03	Hughes Fork - source to mouth																				1					6.6
ID17010215PN010_02	Indian Creek - source to mouth																				1					21.62
ID17010215PN024_03	Kalispell Creek - Idaho/Washington border to mouth			1																	1					12.18
ID17010215PN025_02	Lamb Creek - Idaho/Washington border to mouth			1																	1					27.94
ID17010215PN013_02	Lion Creek - source to mouth																				1					32.42
ID17010215PN001_05	Lower Priest River - Upper West Branch Priest River to mouth			1																	1					35.96
ID17010215PN030_04	Lower West Branch Priest River - Idaho/Washington border to																				1					10.81
ID17010215PN023_02	Reeder Creek - source to mouth																				1					22.63
ID17010215PN023_03	Reeder Creek - source to mouth																				1					0.64
ID17010215PN008_03	Soldier Creek - source to mouth			1																	1					1.78
ID17010215PN017_02	Trapper Creek - source to mouth																				1					22.48
ID17010215PN017_03	Trapper Creek - source to mouth																				1					1.71
ID17010215PN012_02	Two Mouth Creek - source to mouth																				1					27.77
ID17010215PN018_02	Upper Priest River - Idaho/Canadian border to mouth																				1					47.34

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010215PN027_04	Upper West Branch Priest River - Idaho/Washington border to			1																	1					6.72
ID17010215PN027_03	Upper West Branch Priest River - Idaho/Washington border to			1																						5.06
	Summary for 17010215 (21 detail records)																									*374.75* *99983*
HUC	*17010216*																									
ID17010216PN002_08	Pend Oreille River - Albeni Falls Dam to Idaho/Washington bo																					1				3.89
	Summary for 17010216 (1 detail record)																									*3.8900* *00104*
HUC	*17010301*																									
ID17010301PN003_02	Beaver Creek - source to mouth		1				1																		1	44.54
ID17010301PN003_03	Beaver Creek - source to mouth																		1		1					3.7
ID17010301PN020_03	Big Elk Creek - source to mouth																				1					4.6
ID17010301PN034_02	Bootjack Creek - source to mouth																				1					5.14
ID17010301PN031_02	Bumblebee Creek - source to mouth																				1					7.93
ID17010301PN036_02	Burnt Cabin Creek - source to mouth																				1					12.99
ID17010301PN039_03	Copper Creek - source to mouth																				1					2.75
ID17010301PN029_03	Cougar Gulch - source to mouth																		1							6.7
ID17010301PN037_02	Deception Creek - source to mouth																				1					8.34
ID17010301PN007_03	Eagle Creek - source to mouth		1				1														1				1	1.02
ID17010301PN002_03	Graham Creek - source to mouth																				1					1.06
ID17010301PN018_03	Independence Creek - source to mouth																				1					5.07

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010301PN018_02	Independence Creek - source to mouth																				1					78.84
ID17010301PN032_02	Laverne Creek - source to mouth																				1					8.91
ID17010301PN033_02	Leiberg Creek - source to mouth																				1					12.96
ID17010301PN030_02	Little North Fork Coeur d'Alene River - source to mouth																				1					86.49
ID17010301PN009_03	Lost Creek - source to mouth																				1					1.28
ID17010301PN015_03	North Fork Coeur d'Alene River - source to Jordan Creek																				1					6.02
ID17010301PN015_02	North Fork Coeur d'Alene River - source to Jordan Creek																				1					70.14
ID17010301PN001_05	North Fork Coeur d'Alene River - Yellow Dog Creek to mouth																			1	1					41.04
ID17010301PN004_02	Prichard Creek - Butte Creek to mouth						1																			4.17
ID17010301PN004_03	Prichard Creek - Butte Creek to mouth						1														1					5.45
ID17010301PN004_04	Prichard Creek - Butte Creek to mouth						1														1					2.94
ID17010301PN005_02	Prichard Creek - source to Butte Creek						1														1					24.34
ID17010301PN005_03	Prichard Creek - source to Butte Creek		1				1														1				1	1.98
ID17010301PN012_03	Shoshone Creek - source to Falls Creek			1																						7.07
ID17010301PN038_03	Skookum Creek - source to mouth																				1					0.91
ID17010301PN028_03	Steamboat Creek - source to mouth																				1					6.86
ID17010301PN017_05	Tepee Creek - confluence of Trail Creek and Big Elk Creek to																				1					4.7

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010301PN019_03	Trail Creek - source to mouth																				1					6.29
ID17010301PN008_02	West Fork Eagle Creek - source to mouth																				1					14.68
	Summary for 17010301 (31 detail records)																									*488.90* *99952*
HUC	*17010302*																									
ID17010302PN020_02	Bear Creek - source to mouth																				1					13.64
ID17010302PN014_02	Canyon Creek - from and including Gorge Gulch to mouth																		1		1					8.64
ID17010302PN015_02	Canyon Creek - source to Gorge Gulch																				1					4.29
ID17010302PN004_03	East Fork Pine Creek - source to mouth																		1							4
ID17010302PN004_02	East Fork Pine Creek - source to mouth																		1							22.55
ID17010302PN006_02	Government Gulch - source to mouth																		1							3.54
ID17010302PN009b_02	Lake Creek - mining impact area to mouth						1																			1.54
ID17010302PN018_02	Moon Creek - source to mouth																		1							4.64
ID17010302PN018_03	Moon Creek - source to mouth																		1							1.76
ID17010302PN016_02	Ninemile Creek - from and including East Fork Ninemile Creek																		1		1					9.32
ID17010302PN017_02	Ninemile Creek - source to East Fork Ninemile Creek																		1							1.79
ID17010302PN002_04	Pine Creek - East Fork Pine Creek to mouth																		1							5.31
ID17010302PN010_02	Placer Creek - source to mouth																				1					17.61
ID17010302PN001_05	South Fork Coeur d'Alene River - Canyon Creek to mouth																		1		1					2.28

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010302PN001_04	South Fork Coeur d'Alene River - Canyon Creek to mouth																		1							10
ID17010302PN001_03	South Fork Coeur d'Alene River - Canyon Creek to mouth																		1							8.46
ID17010302PN001_02	South Fork Coeur d'Alene River - Canyon Creek to mouth																		1							62.8
ID17010302PN011_03	South Fork Coeur d'Alene River - from and including Daisy Gu						1																			9.48
ID17010302PN013_02	South Fork Coeur d'Alene River - source to Daisy																				1					10.26
	Summary for 17010302 (19 detail records)																									*201.90* *99988*
HUC	*17010303*																									
ID17010303PN028_03	Beauty Creek - source to mouth																				1					2.62
ID17010303PN007_06	Coeur d'Alene River - Latour Creek to mouth																		1		1					29.41
ID17010303PN016_06	Coeur d'Alene River - South Fork Coeur d'Alene River to Lato																				1					8.28
ID17010303PN002_02	Cougar Creek - source to mouth																				1					13.52
ID17010303PN034_03	Fernan Creek - source to Fernan Lake																				1					3.14
ID17010303PN034_02	Fernan Creek - source to Fernan Lake																				1					16.27
ID17010303PN020_02	Fourth of July Creek - source to mouth																		1							31.87
ID17010303PN020_03	Fourth of July Creek - source to mouth																		1							5.12
ID17010303PN015_02	Latour Creek - source to mouth																				1					50.43
ID17010303PN031_02	Marie Creek - source to mouth																				1					19.67
ID17010303PN004_02	Mica Creek - source to mouth												1								1					20.29

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010303PN004_03	Mica Creek - source to mouth												1													0.78
ID17010303PN027_02	Turner Creek - source to mouth						1																			5.12
ID17010303PN011_02	Willow Creek - source to mouth																		1							7.58
ID17010303PN029_03	Wolf Lodge Creek - source to mouth																				1					3.72
	Summary for 17010303 (15 detail records)																									*217.82*
																										00023
HUC	*17010304*																									
ID17010304PN008_02	Alder Creek - source to mouth																		1							29.53
ID17010304PN025_02	Beaver Creek - source to mouth																				1					11.98
ID17010304PN048_02	Beaver Creek - source to mouth																				1					10.79
ID17010304PN063_03	Big Creek - source to mouth																				1					11.62
ID17010304PN063_02	Big Creek - source to mouth																				1					46.31
ID17010304PN045_03	Bluff Creek - source to mouth																		1		1					1.83
ID17010304PN033_02	Bussel Creek - source to mouth																		1		1					24.77
ID17010304PN014_03	Carpenter Creek - source to mouth																		1		1					1.02
ID17010304PN014_02	Carpenter Creek - source to mouth																		1		1					27.55
ID17010304PN011_02	Charlie Creek - source to mouth																		1							32.72
ID17010304PN011_03	Charlie Creek - source to mouth																		1		1					5.81
ID17010304PN023_02	Crystal Creek - source to mouth																		1							8.89
ID17010304PN016_02	Emerald Creek - source to mouth																				1					40.14
ID17010304PN016_03	Emerald Creek - source to mouth																		1		1					8.68

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010304PN039_04	Fishhook Creek - source to mouth																		1		1					5.35
ID17010304PN039_02	Fishhook Creek - source to mouth																				1					51.28
ID17010304PN039_03	Fishhook Creek - source to mouth																				1					4.53
ID17010304PN047_02	Fly Creek - source to mouth																				1					6.01
ID17010304PN019_03	Gold Center Creek - source to mouth																				1					2.16
ID17010304PN019_02	Gold Center Creek - source to mouth																				1					19.68
ID17010304PN053_02	Gold Creek - source to mouth																				1					25.86
ID17010304PN009_02	John Creek - source to mouth																		1							28.37
ID17010304PN060_03	Loop Creek - source to mouth																				1					6.59
ID17010304PN060_02	Loop Creek - source to mouth																				1					39.84
ID17010304PN031_04	Marble Creek - Hobo Creek to mouth																				1					11.83
ID17010304PN020_03	Merry Creek - source to mouth																				1					5.13
ID17010304PN030_02	Mica Creek - source to mouth																		1							40.01
ID17010304PN030_03	Mica Creek - source to mouth																		1							10.68
ID17010304PN018_02	Middle Fork St. Maries River - source to mouth																				1					34.26
ID17010304PN018_03	Middle Fork St. Maries River - source to mouth																		1		1					1.54
ID17010304PN018_04	Middle Fork St. Maries River - source to mouth																				1					4.71
ID17010304PN018_05	Middle Fork St. Maries River - source to mouth																		1		1					1.39
ID17010304PN046_02	Mosquito Creek - source to mouth																				1					10.48

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010304PN061_03	North Fork St. Joe River - source to Loop Creek																				1					7.23
ID17010304PN022_02	Olson Creek - source to mouth																				1					12.76
ID17010304PN024_02	Renfro Creek - source to mouth																		1							21.98
ID17010304PN024_03	Renfro Creek - source to mouth																				1					1.22
ID17010304PN010_02	Santa Creek - source to mouth																		1							34.22
ID17010304PN010_03	Santa Creek - source to mouth																		1		1					4.18
ID17010304PN010_04	Santa Creek - source to mouth																				1					8.95
ID17010304PN052_03	Simmons Creek - source to mouth																				1					10.05
ID17010304PN052_02	Simmons Creek - source to mouth																				1					31.46
ID17010304PN062_03	Slate Creek - source to mouth																				1					14.49
ID17010304PN027_05	St. Joe River - North Fork St. Joe River to St. Maries River																				1					51.8
ID17010304PN027_02	St. Joe River - North Fork St. Joe River to St. Maries River																				1					159.92
ID17010304PN041_03	St. Joe River - source to North Fork St. Joe River																				1					5.75
ID17010304PN041_02	St. Joe River - source to North Fork St. Joe River																				1					144.33
ID17010304PN012_05	St. Maries River - Carpenter Creek to Santa Creek																				1					9.42
ID17010304PN015_05	St. Maries River - confluence of West Fork and Middle Fork S																		1		1					10.43
ID17010304PN026_02	Thorn Creek - source to mouth																		1		1					35.2
ID17010304PN026_03	Thorn Creek - source to mouth							1											1							1.91

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17010304PN013_03	Tyson Creek - source to mouth																		1		1					2.14
ID17010304PN017_04	West Fork St. Maries River - source to mouth																		1		1					3.66
ID17010304PN017_03	West Fork St. Maries River - source to mouth																		1		1					5.53
	Summary for 17010304 (54 detail records)																									*1147.9 70000*
HUC	*17010305*																									
ID17010305PN014_03	Fish Creek - Idaho/Washington border to Twin Lakes			1															1		1					4.53
ID17010305PN014_02	Fish Creek - Idaho/Washington border to Twin Lakes																				1					26.69
ID17010305PN004_02	Spokane River - Coeur d'Alene Lake to Post Falls Dam																				1					11.67
ID17010305PN003_04	Spokane River - Post Falls Dam to Idaho/Washington border						1	1													1					5.67
	Summary for 17010305 (4 detail records)																									*48.560 00089*
HUC	*17010306*																									
ID17010306PN001_03	Hangman Creek	1						1											1							18.76
ID17010306PN001_02	Hangman Creek - source to Idaho/Washington border																				1					115.6
ID17010306PN002_02	Little Hangman Creek - source to Idaho/Washington border							1																		68.26
ID17010306PN002_03	Moctileme Creek							1																		8.54
ID17010306PN002_04	Little Hangman Creek							1																		3.89
	Summary for 17010306 (5 detail records)																									*215.05 00009*
	Summary for Panhandle (278 detail records)																									*4061.9 79993*

Salmon

HUC	*17060101*

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060101SL004_03	Deep Creek - source to mouth						1								1				1							6.78
ID17060101SL028_03	Divide Creek - source to mouth																		1		1					11.04
ID17060101SL028_02	Divide Creek - source to mouth																		1							34.98
ID17060101SL003_08	Snake River - Hells Canyon Dam to Sheep Creek										1										1	1				17.93
ID17060101SL002_08	Snake River - Sheep Creek to Wolf Creek																				1	1				26.61
ID17060101SL001_08	Snake River - Wolf Creek to Salmon River																				1	1				14.68
ID17060101SL024_04	Wolf Creek - Basin Creek to mouth																		1		1					5.75
ID17060101SL025_04	Wolf Creek - source to Basin Creek																		1							0.87
ID17060101SL025_03	Wolf Creek - source to Basin Creek																		1							2.83
ID17060101SL025_02	Wolf Creek - source to Basin Creek																		1							22.37
	Summary for 17060101 (10 detail records)																									*143.84* *00017*
HUC	*17060103*																									
ID17060103SL001_08	Snake River - Asotin River (Idaho/Oregon border) to Lower Gr																				1					6.26
ID17060103SL004_08	Snake River - Salmon River to Cottonwood Creek																				1					7.12
ID17060103SL016_02	Tammany Creek - source to Unnamed Tributary (T34N, R05W, Sec	1						1																		18.64
ID17060103SL014_02	Tammany Creek - WBID 015 to unnamed tributary	1						1																		14.56
ID17060103SL014_03	Tammany Creek - Unnamed Tributary to mouth	1						1																		4.27
	Summary for 17060103 (5 detail records)																									*50.849* *99990*
HUC	*17060201*																									

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060201SL024_04	Aspen Creek - source to mouth																				1					2.46
ID17060201SL024_02	Aspen Creek - source to mouth																				1					51.69
ID17060201SL024_03	Aspen Creek - source to mouth																				1					6.01
ID17060201SL104_03	Big Lake Creek - source to mouth			1																						2.3
ID17060201SL133_03	Broken Wagon Creek - source to mouth							1											1							3.17
ID17060201SL133_02	Broken Wagon Creek - source to mouth							1											1							44.79
ID17060201SL026_02	Bruno Creek - source to mouth			1																						8.78
ID17060201SL009_04	Challis Creek - Bear Creek to Darling Creek							1																		1.5
ID17060201SL127_03	Corral Basin Creek - source to mouth			1																						1.57
ID17060201SL110_04	East Fork Salmon River - confluence of South and West Fork S			1																						4.46
ID17060201SL103_02	East Fork Salmon River - Germania Creek to Herd Creek			1																						59.92
ID17060201SL015_04	Garden Creek - source to mouth							1											1							8.82
ID17060201SL015_03	Garden Creek - source to mouth							1											1							3.92
ID17060201SL020_02	Kinnikinic Creek - source to mouth			1																						18.46
ID17060201SL056_02	Meadow Creek - source to mouth			1																						4.4
ID17060201SL126_02	Mosquito Creek - source to mouth			1																						12.42
ID17060201SL125_03	Road Creek - source to Corral Basin Creek			1																						2.9
ID17060201SL073_05	Salmon River - Alturas Lake Creek to Fisher Creek																		1							5.11

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060201SL072_05	Salmon River - Fisher Creek to Decker Creek																		1							8.39
ID17060201SL001_02	Salmon River - Pennal Gulch to Pashsimeroi River			1									1													94.67
ID17060201SL063_05	Salmon River - Redfish Lake Creek to Valley Creek																		1		1					5.39
ID17060201SL027_05	Salmon River - Thompson Creek to Squaw Creek																		1		1					4.4
ID17060201SL047_05	Salmon River - Valley Creek to Yankee Fork Creek																		1		1					12.64
ID17060201SL099_02	Slate Creek - source to mouth			1																						37.05
ID17060201SL021_04	Squaw Creek - Cash Creek to mouth																				1					7.79
ID17060201SL023_04	Squaw Creek - confluence of Aspen and Cinnabar Creeks to Cas																				1					0.49
ID17060201SL028_03	Thompson Creek - source to mouth						1												1							8.93
ID17060201SL051_02	Valley Creek - Trap Creek to mouth			1																						30.01
ID17060201SL131_04	Warm Spring Creek - Hole-in-Rock Creek to mouth							1											1							4.66
ID17060201SL132_02	Warm Spring Creek - source to Hole-in-Rock Creek							1											1							104.66
ID17060201SL132_04	Warm Spring Creek - source to Hole-in-Rock Creek							1											1							6.71
ID17060201SL132_03	Warm Spring Creek - source to Hole-in-Rock Creek							1											1							5.07
ID17060201SL034_04	Yankee Fork Creek - source to Jordan Creek																		1							7.05
	Summary for 17060201 (33 detail records)																									*580.58* *99995*
HUC	*17060202*																									
ID17060202SL031_03	Big Creek - confluence of North and South Fork Big Creeks to							1											1							13.56

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060202SL023_03	Burnt Creek - Long Creek to mouth			1																						5.06
ID17060202SL024_02	Burnt Creek - source to Long Creek			1																						23.24
ID17060202SL029_02	Donkey Creek -source to mouth			1																						13.56
ID17060202SL030_02	Goldburg Creek - source to Donkey Creek												1													37.62
ID17060202SL009_02	Grouse Creek - source to mouth			1																						35.96
ID17060202SL003_03	Lawson Creek - confluence of North and South Fork Lawson Cre			1																						1.82
ID17060202SL006_02	Meadow Creek - source to mouth			1									1													28.51
ID17060202SL004_02	North Fork Lawson Creek - source to mouth			1																						11.83
ID17060202SL008_04	Pahsimeroi River - Big Creek to Furley Road (T15S, R22E)							1																		3.18
ID17060202SL017_04	Pahsimeroi River - Burnt Creek to Unnamed Tributary (T12N, R							1											1							10.34
ID17060202SL007_04	Pahsimeroi River - Furley Road (T15S, R22E) to Meadow Creek							1											1							1.56
ID17060202SL010_03	Pahsimeroi River - Goldburg Creek to Big Creek							1											1							5.32
ID17060202SL010_04	Pahsimeroi River - Goldburg Creek to Big Creek							1											1							6.64
ID17060202SL010_05	Pahsimeroi River - Goldburg Creek to Big Creek							1											1							0.1
ID17060202SL018_04	Pahsimeroi River - Mahogany Creek to Burnt Creek							1											1							6.17
ID17060202SL002_05	Pahsimeroi River - Meadow Creek to Patterson Creek							1																		10.21
ID17060202SL002_04	Pahsimeroi River - Meadow Creek to Patterson Creek							1																		3.04

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060202SL002_02	Pahsimeroi River - Meadow Creek to Patterson Creek			1									1													50.12
ID17060202SL001_05	Pahsimeroi River - Patterson Creek to mouth							1																		14.22
ID17060202SL011_04	Pahsimeroi River - Unnamed Tributary (T12N, R23E, Sec. 22) t							1											1							2.54
ID17060202SL026_02	Short Creek - source to mouth			1																						5.83
ID17060202SL005_02	South Fork Lawson Creek - source to mouth			1																						11.91
	Summary for 17060202 (23 detail records)																									*302.33* *99979*
HUC	*17060203*																									
ID17060203SL005_03	Big Deer Creek - South Fork Big Deer Creek to mouth						1								1				1							2.98
ID17060203SL012b_02	Blackbird Creek - Blackbird Reservoir Dam to mouth						1								1				1							7.83
ID17060203SL009_02	Bucktail Creek - source to mouth						1																			1.82
ID17060203SL055_02	Cow Creek - source to mouth			1																						27.28
ID17060203SL038_03	Dump Creek - Moose Creek to mouth																		1							5.04
ID17060203SL011_02	Panther Creek - Blackbird Creek to Napias Creek						1																1			6.97
ID17060203SL011_04	Panther Creek - Blackbird Creek to Napias Creek						1																			5.5
ID17060203SL010_05	Panther Creek - Napias Creek to Big Deer Creek			1																						6.08
ID17060203SL039_02	Salmon River - Carmen Creek to North Fork Salmon River			1																						57.04
ID17060203SL039_07	Salmon River - Carmen Creek to North Fork Salmon River			1																						16.81
ID17060203SL047_06	Salmon River - Iron Creek to Twelvemile Creek			1																						12.6

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060203SL053_06	Salmon River - Pahsimeroi River to Iron Creek			1																						8.52
ID17060203SL053_07	Salmon River - Pahsimeroi River to Iron Creek			1																						9.73
ID17060203SL041_07	Salmon River - Pollard Creek to Carmen Creek			1																						5.95
ID17060203SL046_06	Salmon River - Twelvemile Creek to Williams Creek			1																						6.43
ID17060203SL042_07	Salmon River - Williams Creek to Pollard Creek			1																						8.81
ID17060203SL042_02	Salmon River - Williams Creek to Pollard Creek			1																						72.72
ID17060203SL027_02	Trail Creek - source to mouth			1																						9.49
	Summary for 17060203 (18 detail records)																									*271.60 00021*
HUC	*17060204*																									
ID17060204SL064a_02	Bohannon Creek - diversion (T21N, R23E, Sec. 22) to mouth																				1					1.36
ID17060204SL051b_03	Canyon Creek - source to diversion (T16N, R26E, Sec.22)			1																						8.81
ID17060204SL051b_02	Canyon Creek - source to diversion (T16N, R26E, Sec.22)			1																						70.11
ID17060204SL046_02	Clear Creek - source to mouth			1																						17.23
ID17060204SL042_03	Eighteenmile Creek - Clear Creek to Hawley Creek																				1					8.39
ID17060204SL043_03	Eighteenmile Creek - Divide Creek to Hawley Creek																				1					5.96
ID17060204SL041_04	Eighteenmile Creek - Hawley Creek to mouth																				1					2.21
ID17060204SL045_02	Eighteenmile Creek - source to Divide Creek			1																						29.68
ID17060204SL050a_03	Hawley Creek - diversion (T15N, R27E, Sec. 03) to mouth							1											1							2.2

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060204SL050b_03	Hawley Creek - source to diversion (T15N, R27E, Sec. 03)							1											1							11.46
ID17060204SL061_02	Kenney Creek - source to mouth	1																								20.7
ID17060204SL066a_03	Kirtley Creek - diversion (T21N, R22E, Sec. 02) to mouth																				1					2.28
ID17060204SL030_05	Lemhi River - confluence of Eighteenmile Creek and Texas Cre			1															1							10.39
ID17060204SL052a_02	Little Eightmile Creek - diversion (T16N, R25E, Sec. 02) to																				1					0.43
ID17060204SL052b_02	Little Eightmile Creek - source to diversion (T16N, R25E, Se																				1					25.33
ID17060204SL026a_02	Mill Creek - diversion (T16N, R24E, Sec. 22) to mouth							1											1							10.41
ID17060204SL062a_02	Sandy Creek - diversion (T20N, R24E, Sec. 17) to mouth																				1					2.1
ID17060204SL062b_02	Sandy Creek - source to diversion (T20N, R24E, Sec. 17)																				1					12.33
ID17060204SL047_02	Tenmile Creek - Powderhorn Gulch to mouth			1																						2.81
ID17060204SL036_03	Texas Creek			1									1						1							14.93
ID17060204SL027_02	Walter Creek - source to mouth			1																						7.84
ID17060204SL063_02	Wimpey Creek - source to mouth							1																		19.66
	Summary for 17060204 (22 detail records)																									*286.62* *00023*
HUC	*17060205*																									
ID17060205SL026_02	Asher Creek - source to mouth			1																						3.34
ID17060205SL012_04	Bear Valley Creek - 4th order																		1							7.36

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060205SL012_03	Bear Valley Creek - 3rd order																		1							2.08
ID17060205SL012_05	Bear Valley Creek - 5th order			1																						11.24
ID17060205SL028_02	Beaver Creek - Bear Creek to mouth			1																						14.13
ID17060205SL013_03	Elk Creek - 3rd order																		1							5.14
ID17060205SL008_02	Elkhorn Creek - source to mouth																		1		1					29.01
ID17060205SL024_02	Marsh Creek - source to Knapp Creek			1																						20.71
ID17060205SL027_02	Unnamed Tributary - source to mouth (T12N, R11E, Sec. 11)			1																						1.62
	Summary for 17060205 (9 detail records)																									*94.629* *99904*
HUC	*17060206*																									
ID17060206SL012_03	Monumental Creek - source to mouth																		1							8.05
ID17060206SL012_02	Monumental Creek - source to mouth																		1							82.57
	Summary for 17060206 (2 detail records)																									*90.619* *99988*
HUC	*17060209*																									
ID17060209SL028_03	Allison Creek - West Fork Allison Creek to mouth																		1							2.72
ID17060209SL064_02	China Creek - source to Banks Creek																		1							21.87
ID17060209SL012_03	China Creek- Little China Creek to mouth																		1							1.36
ID17060209SL003_02	Cottonwood Creek - source to un-named tributary																		1							22.65
ID17060209SL060_02	Deep Creek - source to unnamed tributary							1					1						1		1					28.3
ID17060209SL062_02	Deer Creek - tributaries																		1							20.87
ID17060209SL062_02a	Deer Creek - source to WF Deer Creek																		1							26.89
ID17060209SL058_03	Grave Creek - unnamed trib to Rock Creek																		1							3.38

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060209SL058_02	Grave Creek - headwaters to unnamed trib																		1							27.44
ID17060209SL037_02a	Little Boulder Creek - source to mouth																		1							7.6
ID17060209SL037_02	Little Slate Creek - headwaters and tributaries																		1							40.26
ID17060209SL061_02	Maloney Creek - source to WF Maloney and tributaries	1						1											1		1					30.04
ID17060209SL007_02	Rice Creek - tributaries																		1							55.28
ID17060209SL056_04	Rock Creek - Grave Creek to mouth																		1							3.73
ID17060209SL057_03	Rock Creek - source to Grave Creek																		1							6.56
ID17060209SL057_02	Rock Creek - source to Grave Creek																				1					78.93
ID17060209SL034_04	Slate Creek - from and including Hurley Creek to mouth																		1							5.29
ID17060209SL036_04	Slate Creek - Little Slate Creek to Hurley Creek																		1							7.36
ID17060209SL015_03	West Fork Race Creek - source to mouth																		1							1.37
ID17060209SL015_02	West Fork Race Creek - source to mouth																		1							10.31
	Summary for 17060209 (20 detail records)																									*402.20* *99993*
HUC	*17060210*																									
ID17060210SL009_02a	Big Creek - 1st and 2nd order range			1																						4.39
ID17060210SL016_03	Elk Creek - Little Elk Creek to mouth																		1							0.98
ID17060210SL001_02	Little Salmon River - Round Valley Creek to mouth																		1							98.51
ID17060210SL001_02a	Indian Creek - source to mouth																		1							2.45
ID17060210SL007_04	Little Salmon River - 4th order																				1					8.65

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17060210SL007_05	Little Salmon River - 5th order			1																						17.05
ID17060210SL002_02a	Shingle Creek																		1							6.09
	Summary for 17060210 (7 detail records)																									*138.12*
	Summary for Salmon (149 detail records)																									*00010* *2361.4* *20002*

Southwest

HUC 17050101

ID17050101SW013_02	Alkali Creek - source to mouth																		1							29.38
ID17050101SW013_03	Alkali Creek - source to mouth																		1							4.36
ID17050101SW016_03	Bennett Creek - 3rd order			1																						29.34
ID17050101SW016_02	Bennett Creek - 1st and 2nd order			1																						53.08
ID17050101SW003_02	Browns Creek - 1st and 2nd order																		1							31.67
ID17050101SW003_03	Browns Creek - 3rd order																		1							4.21
ID17050101SW014_03	Cold Springs Creek - 3rd order			1																						17.28
ID17050101SW008_02	Deadman Creek - 1st and 2nd order																		1							92.72
ID17050101SW012_03a	Little Canyon Creek - 3rd order			1																						10.91
ID17050101SW012_02	Little Canyon Creek - 1st and 2nd order																		1							31.02
ID17050101SW015_02	Ryegrass Creek - source to mouth																		1							28.28
ID17050101SW006_02	Sailor Creek - 1st and 2nd order																		1							265.97
ID17050101SW006_03	Sailor Creek - 3rd order																		1							33.38
ID17050101SW001_07	Snake River - Browns Creek to C.J. Strike Dam							1						1												30
ID17050101SW001_02	Snake River - Browns Creek to C.J. Strike Dam							1						1												126.22

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050101SW005_07	Snake River - Clover Creek to Browns Creek																		1							25
	Summary for 17050101 (16 detail records)																									*812.82*
HUC	*17050102*																									*00078*
ID17050102SW030_02	Big Flat Creek - 1st and 2nd order			1																						48.72
ID17050102SW004_04	Big Jacks Creek - 4th order																		1							7.35
ID17050102SW035_04	Buck Flat Draw - source to mouth																				1					10.21
ID17050102SW019_02	Cat Creek - 1st and 2nd order			1																						17.79
ID17050102SW028_05	Clover Creek (East Fork Bruneau River) - 5th order			1									1													24.74
ID17050102SW028_04	Clover Creek (East Fork Bruneau River) - 4th order												1													29.63
ID17050102SW022_02	Cougar Creek - source to mouth																		1							40.77
ID17050102SW022_03	Cougar Creek - source to mouth																		1							20.01
ID17050102SW034_02	Deadwood Creek - 1st and 2nd order			1																						28.12
ID17050102SW033_03	Deer Creek - 3rd order			1																						5.23
ID17050102SW010_02	Hot Creek - source to mouth	1																	1							37.19
ID17050102SW010_03	Hot Creek - source to mouth	1																	1							13
ID17050102SW016_02	Marys Creek - 1st and 2nd order			1																						134.81
ID17050102SW025_02	Poison Creek - Idaho/Nevada border to mouth																		1							60.67
ID17050102SW025_03	Poison Creek - Idaho/Nevada border to mouth																		1							16.66
ID17050102SW018_02	Pole Creek - 1st and 2nd order			1																						32.99
ID17050102SW014_04	Sheep Creek - 4th order			1																						25.5

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050102SW008_03	Sugar Valley Creek - source to mouth																		1							21.35
ID17050102SW008_02	Sugar Valley Creek - source to mouth																		1							122.13
ID17050102SW031_02	Three Creek - 1st and 2nd order			1																						34.9
ID17050102SW007_02	Wickahoney Creek - 1st and 2nd order																		1							87.9
ID17050102SW007_03	Wickahoney Creek - 3rd order																		1							3.54
	Summary for 17050102 (22 detail records)																									*823.20* *99990*
HUC	*17050103*																									
ID17050103SW012_04	Sinker Creek - source to mouth																		1		1					14.99
ID17050103SW021_04	Birch Creek - source to mouth																		1							2.7
ID17050103SW021_03	Birch Creek - source to mouth																		1							15.12
ID17050103SW021_02	Birch Creek - source to mouth																		1							65.99
ID17050103SW019_02	Brown Creek - source to mouth																		1							79.81
ID17050103SW019_03	Brown Creek - source to mouth																		1							7.64
ID17050103SW019_04	Brown Creek - source to mouth																		1							6.43
ID17050103SW014_04	Castle Creek - source to mouth																		1		1					9.12
ID17050103SW014_02	Castle Creek - source to mouth																		1		1					165.85
ID17050103SW014_05	Castle Creek - source to mouth																		1		1					3.82
ID17050103SW025_03	Corder Creek - 3rd order			1																						9.07
ID17050103SW025_02	Corder Creek - 1st and 2nd order																		1							67.39
ID17050103SW008_02	Hardtrigger Creek - 2nd order			1																						23.01

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050103SW005_03	Jump Creek - 3rd order			1																						18.39
ID17050103SW004_03	McBride Creek - 3rd order																		1		1					6.89
ID17050103SW004_02	McBride Creek - 1st and 2nd order																		1		1					73.11
ID17050103SW016_02	Pickett Creek - source to mouth																		1		1					27.53
ID17050103SW016_03	Pickett Creek - source to mouth																		1							6.43
ID17050103SW026_02	Rabbit Creek - 1st and 2nd order	1																								12.99
ID17050103SW024_03	Shoofly Creek - source to mouth																		1							28.47
ID17050103SW006_02	Snake River - C.J. Strike Dam to river mile 425 (T02N, R04W,																		1		1					182.24
ID17050103SW006_07	Snake River - C.J. Strike Dam to river mile 425 (T02N, R04W,										1								1			1				82.02
ID17050103SW006_03	Snake River - C.J. Strike Dam to river mile 425 (T02N, R04W,																		1							7.46
ID17050103SW001_07	Snake River - 7th order							1			1								1							7.44
ID17050103SW007_02	Squaw Creek - source to mouth																				1					67.62
ID17050103SW007_03	Squaw Creek - source to mouth																		1							12.09
ID17050103SW002_04	Succor Creek - 4th order			1									1													5.51
ID17050103SW003_03	Succor Creek - source to Idaho/Oregon border																		1		1					15.7
ID17050103SW003_02	Succor Creek - source to Idaho/Oregon border																		1		1					68.41
	Summary for 17050103 (29 detail records)																									*1093.2 40008*
HUC	*17050104*																									
ID17050104SW023_03	Battle Creek - source to mouth																				1					36.76

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050104SW023_02	Battle Creek - source to mouth																				1					259.54
ID17050104SW023_04	Battle Creek - source to mouth																				1					29.46
ID17050104SW033_02	Beaver Creek - 1st and 2nd order			1																						47.55
ID17050104SW030_02	Camel Creek - 1st and 2nd order			1																						28.58
ID17050104SW032_02	Castle Creek - 1st and 2nd order			1																						44.58
ID17050104SW026_04	Deep Creek - 4th order			1																						15.54
ID17050104SW031_02	Nickel Creek - source to mouth																				1					77.01
ID17050104SW028_04	Pole Creek - 4th order			1																						12.13
ID17050104SW028_02	Pole Creek - 1st and 2nd order																		1							71.29
ID17050104SW034_02	Red Canyon Creek - 1st and 2nd order																		1							77.67
ID17050104SW034_04	Red Canyon Creek - 4th order																		1							2.96
	Summary for 17050104 (12 detail records)																									*703.07* *00082*
HUC	*17050107*																									
ID17050107SW012_02	Juniper Creek - source to mouth																		1							24.49
ID17050107SW012_03	Juniper Creek - source to mouth																		1							6.87
ID17050107SW004_03	Middle Fork Owyhee River - source to Idaho/Oregon border																		1							4.59
ID17050107SW004_02	Middle Fork Owyhee River - source to Idaho/Oregon border																		1							48.03
ID17050107SW010_02	Noon Creek - source to mouth																		1							23.96
ID17050107SW006_02	Squaw Creek - 1st and 2nd order																		1		1					51.72

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
	Summary for 17050107 (6 detail records)																									*159.65 99988*
HUC	*17050108*																									
ID17050108SW021_03	Cow Creek - 3rd order																		1		1					3.42
ID17050108SW021_02	Cow Creek - 1st and 2nd order																		1		1					55.12
ID17050108SW004_05	Jordan Creek - 5th order	1				1			1					1					1							3.37
ID17050108SW004_02	Jordan Creek - 1st and 2nd order	1				1			1					1					1							102.44
ID17050108SW004_03	Jordan Creek - 3rd order	1				1			1					1					1							13.43
ID17050108SW001_02	Jordan Creek - 1st and 2nd order	1				1			1					1					1							34.37
ID17050108SW014_02	Louisa Creek - source to Triangle Reservoir																		1		1					13.81
ID17050108SW018_02	Louse Creek - 1st and 2nd order						1								1				1							20.55
ID17050108SW013_02	Rock Creek - 1st and 2nd order																		1		1					64.23
ID17050108SW022_03	Soda Creek - source to mouth																		1							3.08
ID17050108SW022_02	Soda Creek - source to mouth																		1							36.92
ID17050108SW015_03	Spring Creek - source to mouth																				1					8.34
ID17050108SW015_02	Spring Creek - source to mouth																				1					48.83
	Summary for 17050108 (13 detail records)																									*407.91 00036*
HUC	*17050111*																									
ID17050111SW009_02	Browns Creek - 1st and 2nd order																		1							11.48
	Summary for 17050111 (1 detail record)																									*11.479 99954*
HUC	*17050112*																									
ID17050112SW013_02	Grimes Creek - 1st and 2nd order			1																						153.46
ID17050112SW013_04	Grimes Creek - 4th order																				1					8.71

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050112SW013_05	Grimes Creek - 5th order			1																						14.65
ID17050112SW009_06	Mores Creek - 6th order																				1					9.36
ID17050112SW009_03	Mores Creek - 3rd order																				1					12.29
ID17050112SW009_02	Mores Creek - 1st and 2nd order			1																						133.17
	Summary for 17050112 (6 detail records)																									*331.64* *00041*
HUC	*17050113*																									
ID17050113SW031_02	Fall Creek - 1st and 2nd order			1																						84.25
ID17050113SW010_03a	Moores Creek			1																						4.63
ID17050113SW010_05	Lime Creek - 5th order																				1					4.07
ID17050113SW033_02	Rattlesnake Creek - 1st and 2nd order																		1							42.05
ID17050113SW032_03	Smith Creek - 3rd order			1																						16.45
ID17050113SW032_02	Smith Creek - 1st and 2nd order																				1					47.4
ID17050113SW004_03	South Fork Boise River - 3rd order			1																						9.85
ID17050113SW004_06	South Fork Boise River - 6th order																		1							31.58
ID17050113SW015_02	South Fork Boise River - 1st and 2nd order			1																						60.98
ID17050113SW002a_02	Willow Creek - 1st and 2nd order																		1							31.94
ID17050113SW002a_03	Willow Creek - 3rd order																		1							5.28
ID17050113SW002b_04	Willow Creek - 4th order			1																						0.93
ID17050113SW002b_03	Willow Creek - 3rd order			1																						7.43
	Summary for 17050113 (13 detail records)																									*346.84* *00022*
HUC	*17050114*																									
ID17050114SW009_02	Blacks Creek - 1st and 2nd order			1																						56.2

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050114SW009_03	Blacks Creek - 3rd order			1																						7.49
ID17050114SW011a_06	Boise River - Diversion Dam to river mile 50 (T04N, R02W, Se																				1					32.15
ID17050114SW005_06	Boise River - river mile 50 (T04N, R02W, Sec. 32) to Indian																				1					44.1
ID17050114SW001_06	Boise River- Indian Creek to mouth							1													1					45.43
ID17050114SW001_02	Boise River- Indian Creek to mouth																				1					4.14
ID17050114SW010_02	Fivemile Creek - 1st and 2nd order										1		1						1							65
ID17050114SW010_03	Fivemile Creek - 3rd order							1			1								1							22.64
ID17050114SW003_02	Indian Creek - 1st and 2nd order	1						1											1							280.3
ID17050114SW003_03	Indian Creek - 3rd order	1																	1		1					57.21
ID17050114SW003_04	Indian Creek - 4th order							1			1								1		1					27.26
ID17050114SW002_04	Indian Creek - 4th order	1																			1					10.93
ID17050114SW016_03	Langley/Graveyard Gulch complex							1			1								1							5.58
ID17050114SW006_02	Mason Creek - 1st and 2nd order							1			1								1							29.82
ID17050114SW017_03	Sand Hollow Creek - source to mouth	1									1								1							18.24
ID17050114SW017_06	Sand Hollow Creek - source to mouth							1			1								1							2.67
ID17050114SW012_03	Stewart Gulch, Cottonwood and Crane Creeks -source to mouth			1																						5.92
ID17050114SW012_02	Stewart Gulch, Cottonwood and Crane Creeks -source to mouth			1																						63.71
ID17050114SW008_03	Tenmile Creek - 3rd order							1					1						1							29.48

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050114SW015_02	Willow Creek - source to mouth			1																	1					77.72
ID17050114SW015_03	Willow Creek - source to mouth			1																	1					18.36
	Summary for 17050114 (21 detail records)																									*904.34* *99875*
HUC	*17050115*																									
ID17050115SW001_08	Snake River - Boise River to Weiser River							1			1								1		1					73.58
	Summary for 17050115 (1 detail record)																									*73.580* *00183*
HUC	*17050120*																									
ID17050120SW001_02	South Fork Payette River - 1st and 2nd order			1																						226.08
ID17050120SW001_05	South Fork Payette River - 5th order																		1							23.95
	Summary for 17050120 (2 detail records)																									*250.03* *00025*
HUC	*17050121*																									
ID17050121SW001_04	Middle Fork Payette River - 4th order			1																						13.2
ID17050121SW001_02	Middle Fork Payette River - 1st and 2nd order																		1							48.31
ID17050121SW005_04	Middle Fork Payette River - 4th order			1																						8.52
	Summary for 17050121 (3 detail records)																									*70.030* *00164*
HUC	*17050122*																									
ID17050122SW017_02	Big Willow Creek - 1st and 2nd order			1																						164.87
ID17050122SW017_04	Big Willow Creek - 4th order			1																						13.29
ID17050122SW017_06	Big Willow Creek - 6th order			1																						15.69
ID17050122SW001_06	Payette River - Black Canyon Reservoir Dam to mouth			1																						66.75
ID17050122SW003_06	Payette River - confluence of the North Fork and South Fork							1	1										1							38.17

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050122SW012_02	Soldier Creek - 1st and 2nd order																		1							20.5
ID17050122SW012_03	Soldier Creek - 3rd order			1																						2.02
	Summary for 17050122 (7 detail records)																									*321.28* *99928*
HUC	*17050123*																									
ID17050123SW006_02	Beaver Creek - 1st and 2nd order			1																						19.97
ID17050123SW004_06	Big Creek - source to mouth																		1							3.15
ID17050123SW004_03	Big Creek - source to mouth																		1							14.87
ID17050123SW011_03	Boulder Creek - source to Cascade Reservoir							1			1								1		1					11.55
ID17050123SW011_02	Boulder Creek - source to Cascade Reservoir			1																						63.64
ID17050123SW003_02	Clear Creek - source to mouth																		1							48.45
ID17050123SW003_03	Clear Creek - source to mouth																		1							13.26
ID17050123SW008_05	Gold Fork - 5th order							1																		2.61
ID17050123SW015_02	Mud Creek - 1st and 2nd order	1						1			1								1							25.59
ID17050123SW015_03	Mud Creek - source to Cascade Reservoir	1						1			1								1					1		7.16
ID17050123SW001_06	North Fork Payette River - 6th order							1											1		1					42.3
ID17050123SW018_02	North Fork Payette River - 1st and 2nd order			1																						37.62
ID17050123SW002_03	Round Valley Creek - source to mouth																		1							2.4
ID17050123SW002_02	Round Valley Creek - source to mouth																		1							30.33
	Summary for 17050123 (14 detail records)																									*322.89* *99979*
HUC	*17050124*																									
ID17050124SW002_02	Cove Creek - 1st and 2nd order							1											1							44.74

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050124SW003_05	Crane Creek - Crane Creek Reservoir Dam to mouth	1						1											1		1					17.17
ID17050124SW022_02	Johnson Creek - source to mouth			1																						16.52
ID17050124SW022_03	Johnson Creek - source to mouth			1																						6.21
ID17050124SW008_02	Little Weiser River - source to mouth																				1					79.79
ID17050124SW008_04	Little Weiser River - source to mouth							1											1							20.42
ID17050124SW008_03	Little Weiser River - source to mouth							1											1							23.73
ID17050124SW006_04	North Crane Creek - 4th order			1																						5.84
ID17050124SW006_02	North Crane Creek - 1st and 2nd order			1																						186.17
ID17050124SW006_03	North Crane Creek - 3rd order			1																						14.5
ID17050124SW005_02	South Fork Crane Creek - 1st and 2nd order			1																						53.24
ID17050124SW005_03	South Fork Crane Creek - 3rd order			1																						7.2
ID17050124SW005_04	South Fork Crane Creek - 4th order			1																						2.44
ID17050124SW001_06	Weiser River - Keithly Creek to mouth	1						1											1		1					21.64
ID17050124SW001_05	Weiser River - Keithly Creek to mouth	1						1											1		1					20.72
ID17050124SW007_05	Weiser River - source to Keithly Creek							1											1							31.74
ID17050124SW017_03	West Fork Weiser River - source to mouth			1																						12.76
ID17050124SW017_02	West Fork Weiser River - source to mouth			1																						37.38
	Summary for 17050124 (18 detail records)																									*602.21*
HUC	*17050201*																									*00024*

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17050201SW012_02	Dennett Creek - source to mouth																		1		1					16.39
ID17050201SW008_02	Hog Creek - source to mouth							1											1							34.42
ID17050201SW008_03	Hog Creek - source to mouth							1											1							2.89
ID17050201SW010_04	Rock Creek - 4th order			1																						4.82
ID17050201SW006_02	Scott Creek - 2nd order							1											1							15.56
ID17050201SW006_03	Scott Creek - 3rd order							1											1							14.35
ID17050201SW003_02	Tributaries to Snake River - 1st and 2nd order			1																						106.78
ID17050201SW003_08	Snake River (Brownlee Reservoir) - Scott Creek to Brownlee D					1		1			1								1		1					57.88
ID17050201SW001_08	Snake River - Hells Canyon Reservoir																				1	1				22.13
ID17050201SW002_08	Snake River - Oxbow Reservoir							1						1					1		1	1				14.46
ID17050201SW004_08	Snake River - Weiser River to Scott Creek							1			1								1		1					8.98
ID17050201SW007_03	Warm Springs Creek - 3rd order			1																						5.31
ID17050201SW015_04	Wildhorse River - 4th order																				1					13.67
	Summary for 17050201 (13 detail records)																									*317.63*
	Summary for Southwest (197 detail records)																									*99972 7551.9 00016*

Upper Snake

HUC *17040104*

ID17040104SK011_02	Bear Creek - North Fork Bear Creek to Palisades Reservoir			1																						35.62
ID17040104SK013_02	Bear Creek - source to North Fork Bear Creek			1																						54.72
ID17040104SK013_03	Bear Creek - source to North Fork Bear Creek			1																						6.74
ID17040104SK006_04	Fall Creek - source to South Fork Fall Creek																		1		1					7.23

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040104SK006_02	Fall Creek - source to South Fork Fall Creek																		1		1					72.67
ID17040104SK006_03	Fall Creek - source to South Fork Fall Creek																		1		1					5.01
ID17040104SK024_03	Indian Creek - Idaho/Wyoming border to Palisades Reservoir			1																						3.21
ID17040104SK024_04	Indian Creek - Idaho/Wyoming border to Palisades Reservoir			1																						2.21
ID17040104SK026_02	Little Elk Creek - source to Palisades Reservoir			1																						10
ID17040104SK028_04	Rainey Creek - source to mouth												1													12.46
ID17040104SK001_02	Snake River - Black Canyon Creek to river mile 856 (T03N, R4			1																						48.29
ID17040104SK008_02	Snake River - Palisades Reservoir Dam to Fall Creek			1																						77.78
	Summary for 17040104 (12 detail records)																									*335.93* *99981*
HUC	*17040105*																									
ID17040105SK008_02c	Beaver Dam Creek																		1							5.09
ID17040105SK010_02b	North Fork Deer Creek																		1							3.18
ID17040105SK010_02a	South Fork Deer Creek																		1							11.69
ID17040105SK002_02c	Cabin Creek																		1							3.01
ID17040105SK011_03	Rock Creek																		1							3.46
ID17040105SK009_02	Sage Creek - source to mouth						1											1								24
ID17040105SK006_02f	White Canyon																		1							3.2
ID17040105SK006_02	Stump Creek - source to Idaho/Wyoming border			1																						56.11
ID17040105SK003_02g	Chicken Creek			1																						1.59
ID17040105SK003_02i	Luthi Canyon			1																						4.3

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040105SK001_02b	Newswander Canyon																		1							4.96
ID17040105SK007_02c	Smoky Creek																		1							10.75
ID17040105SK007_02f	Draney Creek												1						1							6.85
	Summary for 17040105 (13 detail records)																									*138.19 00006*
HUC	*17040201*																									
ID17040201SK008_03	Birch Creek - source to mouth			1																						6.21
ID17040201SK008_02	Birch Creek - source to mouth			1																						29.33
ID17040201SK007_05	Crow Creek - source to Willow Creek																		1							9.46
ID17040201SK003_05	North Fork Willow Creek - source to mouth																		1							10.21
ID17040201SK001_05	Snake River - Dry Bed Creek to river mile 791 (T01N, R37E, S																		1							5.72
ID17040201SK013_02	Snake River - river mile 856 (T03N, R41E, Sec. 16) to Dry Be			1																						20.45
ID17040201SK002_05	South Fork Willow Creek - source to mouth																		1							6.87
	Summary for 17040201 (7 detail records)																									*88.250 00047*
HUC	*17040202*																									
ID17040202SK018_03	Buffalo River - source to Elk Creek			1																						9.11
ID17040202SK036_03	Duck Creek - source to mouth																				1					4.79
ID17040202SK033_02	Howard Creek - source to mouth																				1					15.24
ID17040202SK044_02	Icehouse Creek - source to Island Park Reservoir																		1							17.65
ID17040202SK007_02	Porcupine Creek - source to mouth																		1							16.34
ID17040202SK045_03	Sheridan Creek - Kilgore Road (T13N, R41E, Sec. 07) to mouth																		1							18.64

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040202SK034_02	Targhee Creek - source to mouth																				1					28.84
ID17040202SK034_03	Targhee Creek - source to mouth																				1					9.39
ID17040202SK035_03	Timber Creek - source to mouth																				1					3.37
ID17040202SK035_02	Timber Creek - source to mouth																				1					16.97
ID17040202SK005_04	Warm River - source to Warm River Spring																				1					7.49
ID17040202SK005_03	Warm River - source to Warm River Spring																				1					17.47
ID17040202SK005_02	Warm River - source to Warm River Spring																				1					70.29
ID17040202SK002_05	Warm River - Warm River Spring to mouth																				1					0.57
ID17040202SK046_04	Willow Creek - source to mouth																		1							9.98
	Summary for 17040202 (15 detail records)																									*246.13* *99977*
HUC	*17040203*																									
ID17040203SK007_03	Squirrel Creek - Idaho/Wyoming border to mouth			1																						19.41
ID17040203SK007_02	Squirrel Creek - Idaho/Wyoming border to mouth			1									1													45.26
	Summary for 17040203 (2 detail records)																									*64.669* *99816*
HUC	*17040204*																									
ID17040204SK044_02	Darby Creek - SW ¼, SE ¼, S10, T4N, R45E, to mouth, includin			1																						4.14
ID17040204SK046_02	Dick Creek spring complex - south to Darby Creek and north t			1																						3.59
ID17040204SK042_02	Fox Creek - Idaho/Wyoming border to North Fox Creek Canal (N																				1					0.91

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040204SK041_02	Fox Creek - North Fox Creek Canal (NW ¼, Sec 29 T4N, R46E) t																				1					7.99
ID17040204SK021_03	Horseshoe Creek - pipeline diversion (SE ¼, NW ¼, Sec. 27, T			1																						4.81
ID17040204SK025_02	Mahogany Creek - source to pipeline diversion (NE ¼, Sec. 27																				1					7.01
ID17040204SK005_04	Moody Creek - confluence of North and South Fork Moody Creek							1																		19.57
ID17040204SK007_02	North Fork Moody Creek - source to mouth												1													26.35
ID17040204SK055_02	North Leigh Creek - Idaho/Wyoming border to mouth			1																						4.99
ID17040204SK054_03	Spring Creek - North Leigh Creek to mouth																				1					13.17
ID17040204SK056_03	Spring Creek - source to North Leigh Creek, including spring																				1					1.44
ID17040204SK056_02	Spring Creek - source to North Leigh Creek, including spring																				1					24.2
ID17040204SK016_04	Teton River - Highway 33 bridge to Felt Dam pool							1											1							3.26
ID17040204SK003_05	Teton River - Teton Dam to Teton River Forks							1																		20.76
ID17040204SK026_02	Teton River - Trail Creek to Teton Creek																				1					22.31
ID17040204SK011_02	Warm Creek - source to mouth			1									1													5.78
ID17040204SK034_02	Warm Creek - source to mouth			1									1													17.6
	Summary for 17040204 (17 detail records)																									*187.88*
HUC	*17040205*																									*00007*
ID17040205SK006_03	Birch Creek - source to mouth																		1							1.01

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040205SK006_02	Birch Creek - source to mouth																		1							14.11
ID17040205SK024_02	Brockman Creek - Corral Creek to mouth												1													20.04
ID17040205SK024_03	Brockman Creek - Corral Creek to mouth							1											1							7.64
ID17040205SK025_02	Brockman Creek - source to Corral Creek							1											1							17.34
ID17040205SK025_03	Brockman Creek - source to Corral Creek							1											1							0.24
ID17040205SK030_02	Bulls Fork - source to mouth			1																						23.4
ID17040205SK026_02	Corral Creek - source to mouth																		1		1					7.21
ID17040205SK014_03	Crane Creek - source to mouth			1																						11.07
ID17040205SK014_02	Crane Creek - source to mouth																		1							44.98
ID17040205SK019_04	Grays Lake outlet - Brockman Creek to Homer Creek			1																						12.59
ID17040205SK020_04	Grays Lake outlet - Grays Lake to Brockman Creek							1											1							11.55
ID17040205SK020_02	Grays Lake outlet - Grays Lake to Brockman Creek							1											1							18.05
ID17040205SK016_04	Grays Lake outlet - Hell Creek to mouth																				1					4.7
ID17040205SK017_04	Grays Lake outlet - Homer Creek to Hell Creek																				1					8.61
ID17040205SK029_03	Hell Creek - source to mouth							1											1							10.82
ID17040205SK029_02	Hell Creek - source to mouth							1											1							38.36
ID17040205SK018_03	Homer Creek - source to mouth																		1							17.26
ID17040205SK018_02	Homer Creek - source to mouth																		1							60.51
ID17040205SK028_03	Lava Creek - source to mouth																		1		1					3.29

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040205SK028_02	Lava Creek - source to mouth																		1		1					14.67
ID17040205SK032_03	Meadow Creek - source to Ririe Reservoir																		1							1.24
ID17040205SK032_02	Meadow Creek - source to Ririe Reservoir												1													40.57
ID17040205SK012_02	Mill Creek - source to mouth																		1		1					13.64
ID17040205SK012_03	Mill Creek - source to mouth																		1		1					3.3
ID17040205SK009_02	Mud Creek - source to mouth			1																						9.77
ID17040205SK027_02	Sawmill Creek - source to mouth																		1		1					8.43
ID17040205SK010_03	Sellars Creek - source to mouth																		1		1					4.23
ID17040205SK031_03	Tex Creek - source to mouth																		1							8.85
ID17040205SK031_02	Tex Creek - source to mouth			1																						41.53
ID17040205SK005_04	Willow Creek - Birch Creek to Bulls Fork																				1					2.47
ID17040205SK005_05	Willow Creek - Birch Creek to Bulls Fork																		1							13.51
ID17040205SK005_02	Willow Creek - Birch Creek to Bulls Fork			1									1													57.41
ID17040205SK004_05	Willow Creek - Bulls Fork to Ririe Reservoir																		1							2.99
ID17040205SK011_02	Willow Creek - Crane Creek to Mud Creek																		1		1					23.25
ID17040205SK008_02	Willow Creek - Mud Creek to Birch Creek			1									1													27.76
ID17040205SK008_04	Willow Creek - Mud Creek to Birch Creek																				1					9.2
ID17040205SK001_05	Willow Creek - Ririe Reservoir Dam to Eagle Rock Canal																		1							5.47
ID17040205SK013_02	Willow Creek - source to Crane Creek			1																						37.35

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040205SK013_03	Willow Creek - source to Crane Creek																		1							3.7
	Summary for 17040205 (40 detail records)																									*662.11* *99958*
HUC	*17040206*																									
ID17040206SK002_03	Bannock Creek - source to American Falls Reservoir	1						1											1							14.3
ID17040206SK002_04	Bannock Creek - source to American Falls Reservoir	1						1											1							10.02
ID17040206SK002_05	Bannock Creek - source to American Falls Reservoir	1						1											1							21.34
ID17040206SK002_02	Bannock Creek - source to American Falls Reservoir	1						1											1							242.01
ID17040206SK009_02	Knox Creek - source to mouth			1																						23.84
ID17040206SK009_03	Knox Creek - source to mouth			1																						7.82
ID17040206SK025_02a	Lttle Hole Draw			1																						4.11
ID17040206SK024_02	McTucker Creek - source to American Falls Reservoir																		1							4.07
ID17040206SK006_02	Moonshine Creek - source to mouth																		1							39.52
ID17040206SK010_02	Rattlesnake Creek - source to mouth																		1							54.48
ID17040206SK010_03	Rattlesnake Creek - source to mouth																		1							9.97
ID17040206SK010_04	Rattlesnake Creek - source to mouth																		1							5.37
ID17040206SK022_02	Snake River - river mile 791 (T01N, R37E, Sec. 10) to Americ																		1							217.28
ID17040206SK005_02	Sunbeam Creek - source to mouth																		1							24.03
ID17040206SK000_02a	Danielson Creek			1																						4.4
ID17040206SK008_02	West Fork Bannock Creek - source to mouth																		1							23.78
	Summary for 17040206 (16 detail records)																									*706.33* *99963*

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
HUC	17040207																									
ID17040207SK023_02a	Rasmussen Creek																		1							6.26
ID17040207SK019_02	Bacon Creek - source to mouth																		1							18.92
ID17040207SK002_02b	Deadman Creek																		1							5.16
ID17040207SK010_04	Blackfoot River - confluence of Lanes and Diamond Creeks to						1											1								13.82
ID17040207SK010_03	Blackfoot River - confluence of Lanes and Diamond Creeks to																		1							2.68
ID17040207SK010_02a	State Land Creek																		1							9.07
ID17040207SK026_03	Brush Creek - source to mouth	1		1																	1					13.35
ID17040207SK026_02	Brush Creek - source to mouth			1																	1					54.54
ID17040207SK021_03	lower Chippy Creek																		1							0.94
ID17040207SK006_02a	Chicken Creek																		1							6.59
ID17040207SK006_02b	Bear Creek																		1							3.84
ID17040207SK016_03a	middle Diamond Creek	1																								10.65
ID17040207SK013_02a	Chicken Creek						1											1								2.86
ID17040207SK013_03	Dry Valley Creek - source to mouth						1											1								4.98
ID17040207SK005_03	Grave Creek - source to mouth																		1							5.48
ID17040207SK005_02a	Warbonnet Creek																		1							6.22
ID17040207SK007_02	Grizzly Creek - source to mouth			1																						16.74
ID17040207SK007_04	Grizzly Creek - source to mouth			1																						2.78
ID17040207SK007_02a	Sawmill Creek																		1							7.44

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040207SK007_03	Grizzly Creek - source to mouth			1																						4.54
ID17040207SK031_02	Jones Creek - source to mouth																		1							4.54
ID17040207SK014_02	Maybe Creek - source to mouth			1			1											1								5.23
ID17040207SK025_02a	Clark's Cut																		1							1.47
ID17040207SK025_03b	Crooked Creek																		1							2.13
ID17040207SK015_03	lower Spring Creek						1											1								1.5
ID17040207SK015_02b	lower Mill Canyon						1											1								1.03
ID17040207SK015_02a	upper Mill Canyon						1											1	1							2.44
ID17040207SK015_04	Mill Canyon - source to mouth									1									1							0.36
ID17040207SK015_02	Spring Creek						1											1								5.89
ID17040207SK027_03	Rawlins Creek - source to mouth												1													1.89
ID17040207SK012_02b	Goodheart Creek																		1							7.54
ID17040207SK008_02	Thompson Creek - source to mouth																		1							10.71
ID17040207SK000_05	Unclassified Waters in CU 17040207																		1							0.13
	Summary for 17040207 (33 detail records)																									*241.72 00000*

HUC 17040208

ID17040208SK014_04	lower Cherry Creek	1																								2.73
ID17040208SK014_02	Cherry Creek - source to mouth	1						1											1							17.62
ID17040208SK017_03	lower Dempsey Creek												1													3.58
ID17040208SK017_02c	Beaverdam Creek																		1							18.45
ID17040208SK010_02b	lower Garden Creek	1																								7.65
ID17040208SK005_02	Indian Creek - source to mouth			1																						8.13

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040208SK006_04a	lower middle Marsh Creek												1													19.77
ID17040208SK006_03a	Marsh Creek	1						1											1							3.79
ID17040208SK006_02	Marsh Creek - source to mouth			1																						216.62
ID17040208SK006_04	lower Marsh Creek												1													17.68
ID17040208SK006_02c	lower Yago Creek																		1							3.59
ID17040208SK004_02a	Kinney Creek																		1							2.57
ID17040208SK004_04	lower Mink Creek												1													3.8
ID17040208SK026_02a	North Fork Pocatello Creek																		1							10.52
ID17040208SK001_05	Portneuf River - Marsh Creek to American Falls Reservoir			1																						28.79
ID17040208SK020_02	Portneuf River - source to Chesterfield Reservoir																		1							91.91
ID17040208SK020_03	Portneuf River - source to Chesterfield Reservoir																		1							17.38
ID17040208SK023_02	Rapid Creek - source to mouth																		1							28.86
ID17040208SK025_02	South Fork Pocatello Creek - source to mouth																		1							5.02
	Summary for 17040208 (19 detail records)																									*508.46*
																										00021
HUC	*17040209*																									
ID17040209SK013_02	Craters of the Moon complex			1																						115.6
ID17040209SK013_03	Craters of the Moon complex			1																						13.37
ID17040209SK003_03	Marsh Creek - source to mouth			1																						10.71
ID17040209SK003_02	Marsh Creek - source to mouth			1																						171.12
ID17040209SK003_04	Marsh Creek - source to mouth			1																						17.81
ID17040209SK008_03	Rock Creek - confluence of South and East Fork Rock Creeks t			1																						7.64

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040209SK011_02	Snake River - American Falls Reservoir Dam to Rock Creek			1																						31.61
ID17040209SK005_07	Snake River - Raft River to Lake Walcott										1			1												4.57
ID17040209SK000_02A	Dayley Creek			1																						46.09
	Summary for 17040209 (9 detail records)																									*418.51 99937*
HUC	*17040210*																									
ID17040210SK005_04	Cassia Creek - Clyde Creek to Conner Creek												1													4.49
ID17040210SK003_04	Cassia Creek - Conner Creek to mouth																		1							12.77
ID17040210SK007_05	Cassia Creek - source to Clyde Creek	1						1			1								1					1		4.82
ID17040210SK007_02	Cassia Creek - source to Clyde Creek												1													38.98
ID17040210SK006_02	Clyde Creek - source to mouth												1													24.87
ID17040210SK022_02	Lake Fork - source to Sublett Reservoir			1																						17
ID17040210SK002_05	Raft River - Cassia Creek to Heglar Canyon Creek	1						1			1								1					1		21.42
ID17040210SK002_02	Raft River - Cassia Creek to Heglar Canyon Creek	1						1			1								1					1		167.19
ID17040210SK008_04	Raft River - Cottonwood Creek to Cassia Creek	1									1						1		1		1					22.91
ID17040210SK001_05	Raft River - Heglar Canyon Creek to mouth	1						1			1								1					1		12.42
ID17040210SK013_04	Raft River - Idaho/Utah border to Edwards Creek	1									1						1		1		1					8.97
ID17040210SK019_02	Sublett Creek - Sublett Reservoir Dam to mouth	1						1			1								1							51.44
	Summary for 17040210 (12 detail records)																									*387.28 00021*
HUC	*17040211*																									
ID17040211SK006_02	Beaverdam Creek - source to mouth							1					1			1			1							55.9

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040211SK006_03	Beaverdam Creek - source to mouth							1					1			1				1						6.32
ID17040211SK009_03	Birch Creek - Idaho/Utah border to mouth							1					1			1										2.28
ID17040211SK012_02	Birch Creek - source to mouth	1									1								1							66.91
ID17040211SK012_03	Birch Creek - source to mouth	1									1								1							6.67
ID17040211SK012_04	Birch Creek - source to mouth	1									1								1							10.82
ID17040211SK010_02	Blue Hill Creek - source to mouth			1																						17.95
ID17040211SK010_03	Blue Hill Creek - source to mouth			1																						2.96
ID17040211SK011_02	Cold Creek - source to mouth			1																						15.76
ID17040211SK005_05	Goose Creek - Beaverdam Creek to Lower Goose Creek Res ervoi																		1		1					18.76
ID17040211SK008_02	Goose Creek - source to Idaho/Utah border												1													63.16
ID17040211SK013_02	Mill Creek - source to mouth																				1					53.09
ID17040211SK003_04	Trapper Creek - from and including Squaw Creek to Lower Goos	1									1								1							7.3
ID17040211SK000_05	Unclassified Waters in CU 17040211	1						1			1								1		1					4.34
ID17040211SK000_02A	Little Cottonwood Creek												1													63.19
	Summary for 17040211 (15 detail records)																									*395.41 00053*
HUC	*17040212*																									
ID17040212SK033_02	Billingsley Creek - source to mouth										1													1		8.13
ID17040212SK040_03	Calf Creek - source to mouth							1					1						1		1					6.56
ID17040212SK040_02	Calf Creek - source to mouth																				1					35.87
ID17040212SK038_02	Catchall Creek - source to mouth			1																						15.85

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040212SK012_02	Cedar Draw - source to mouth			1																						17.97
ID17040212SK012_03	Cedar Draw - source to mouth							1					1								1					2.93
ID17040212SK036_02	Clover Creek - source to Pioneer Reservoir							1					1						1		1					55.67
ID17040212SK036_04	Clover Creek - source to Pioneer Reservoir							1					1						1		1					26.04
ID17040212SK014_04	Cottonwood Creek - source to mouth							1						1										1		6.9
ID17040212SK014_02	Cottonwood Creek - source to mouth							1					1								1					37.64
ID17040212SK008_02	Deep Creek - High Line Canal to mouth			1																						15.81
ID17040212SK008_03	Deep Creek - High Line Canal to mouth			1																						9.69
ID17040212SK022_03	Dry Creek - source to mouth																				1					9.85
ID17040212SK015_02	McMullen Creek - source to mouth							1					1								1					50.02
ID17040212SK015_03	McMullen Creek - source to mouth							1			1										1					9.41
ID17040212SK010_03	Mud Creek - Deep Creek Road (T09S, R14E) to mouth							1					1								1					1.07
ID17040212SK010_02	Mud Creek - Deep Creek Road (T09S, R14E) to mouth			1																						7.39
ID17040212SK011_02	Mud Creek - source to Deep Creek Road (T09S, R14E)			1																						5.4
ID17040212SK016_04	Rock Creek - Fifth Fork Rock Creek to river mile 25 (T11S, R							1	1		1													1		8.31
ID17040212SK013_04	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth							1	1		1													1		4.63
ID17040212SK013_05	Rock Creek -river mile 25 (T11S, R18E, Sec. 36) to mouth							1	1		1													1		20.11

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040212SK005_07	Snake River - Box Canyon Creek to Lower Salmon Falls										1															16.51
ID17040212SK005_02	Snake River - Box Canyon Creek to Lower Salmon Falls							1			1													1		17.39
ID17040212SK001_07	Snake River - Lower Salmon Falls to Clover Creek										1															26.62
ID17040212SK001_04	Snake River - Lower Salmon Falls to Clover Creek																				1					0.19
ID17040212SK020_07	Snake River - Milner Dam to Twin Falls	1									1										1					21.29
ID17040212SK007_02	Snake River - Rock Creek to Box Canyon Creek							1			1													1		15.68
ID17040212SK007_07	Snake River - Rock Creek to Box Canyon Creek										1															18.3
ID17040212SK019_07	Snake River - Twin Falls to Rock Creek										1															11.87
ID17040212SK031_02	Thousand Springs							1																		4.6
ID17040212SK004_03	Tuana Gulch - source to mouth																		1							14.11
ID17040212SK000_03A	Yahoo Creek												1						1							2.23
ID17040212SK000_02	Unclassified Waters in CU 17040212										1															392.31
ID17040212SK023_02	West Fork Dry Creek - source to mouth							1			1															10.72
	Summary for 17040212 (34 detail records)																									*907.06* *99973*

HUC 17040213

ID17040213SK014_03	Big Creek - source to mouth			1																						7.18
ID17040213SK014_02	Big Creek - source to mouth																				1					38.27
ID17040213SK008_03	China, Browns, Corral, Whiskey Slough, Player Creeks - sourc																		1							3.22
ID17040213SK015_02	Cottonwood Creek - source to mouth							1			1								1							36.62
ID17040213SK015_03	Cottonwood Creek - source to mouth							1			1								1							3.56

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040213SK012_02	Hot Creek - Idaho/Nevada border to mouth			1																						28.65
ID17040213SK012_03	Hot Creek - Idaho/Nevada border to mouth			1																						3.54
ID17040213SK012_03A	Hot Creek																		1		1					1.68
ID17040213SK005_02	House Creek - source to Cedar Creek Reservoir	1																								56.6
ID17040213SK001_06	Salmon Falls Creek - Devil Creek to mouth	1						1			1								1							21.93
ID17040213SK009_06	Salmon Falls Creek - Idaho/Nevada border to Salmon Falls Cre							1													1					8.67
ID17040213SK013_04	Shoshone Creek - Cottonwood Creek to Hot Creek																		1		1					9.28
ID17040213SK011_04	Shoshone Creek - Hot Creek to Idaho/Nevada border																		1		1					11.06
ID17040213SK016_02	Shoshone Creek - source to Cottonwood Creek	1																								55.9
ID17040213SK016_03	Shoshone Creek - source to Cottonwood Creek			1																						11.7
ID17040213SK000_04	Unclassified Waters in CU 17040213	1						1			1								1							19.54
	Summary for 17040213 (16 detail records)																									*317.39* *99999*
HUC	*17040214*																									
ID17040214SK003_05	Beaver Creek - canal (T09N, R36E) to mouth							1											1		1					10.56
ID17040214SK014_05	Beaver Creek - Dry Creek to canal (T09N, R36E)							1											1		1					15.7
ID17040214SK020_02	Beaver Creek - Idaho Creek to Miners Creek			1									1													12.83
ID17040214SK018_04	Beaver Creek - Miners Creek to Rattlesnake Creek							1											1		1					8.93
ID17040214SK018_02	Beaver Creek - Miners Creek to Rattlesnake Creek							1											1		1					40.25
ID17040214SK015_05	Beaver Creek - Rattlesnake Creek to Dry Creek							1											1		1					2.9

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040214SK021_02	Beaver Creek - source to Idaho Creek												1													14.74
ID17040214SK001_06	Camas Creek - Beaver Creek to Mud Lake							1											1							18.36
ID17040214SK002_05	Camas Creek - Spring Creek to Beaver Creek							1											1		1					41.33
ID17040214SK006_03	Ching Creek - source to mouth			1																						11.93
ID17040214SK026_02	Cottonwood Creek complex			1																						89.33
ID17040214SK008_02	Crooked/Crab Creek - source to mouth			1																						30.04
ID17040214SK008_03	Crooked/Crab Creek - source to mouth												1													11.01
ID17040214SK025_03	Dry Creek - source to mouth			1																						7.08
ID17040214SK019_02	Miners Creek - source to mouth			1																						21.06
ID17040214SK016_03	Rattlesnake Creek - source to mouth			1																						10.51
ID17040214SK016_02	Rattlesnake Creek - source to mouth			1																						56.85
ID17040214SK017_03	Threemile Creek - source to mouth												1													1.82
ID17040214SK017_02	Threemile Creek - source to mouth			1																						23.11
ID17040214SK009_02	Warm Creek - Cottonwood Creek to mouth and East Camas Creek			1									1													11.69
	Summary for 17040214 (20 detail records)																									*440.03*
																										00043
HUC	*17040215*																									
ID17040215SK021_02	Crooked Creek - source to mouth			1																						53.08
ID17040215SK018_02	Deep Creek - source to mouth			1																						77.1
ID17040215SK014_02	Divide Creek - source to mouth												1													13.86

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040215SK009_02	Dry Creek - source to mouth																		1							5.2
ID17040215SK010_02	Edie Creek - source to mouth																		1							10.17
ID17040215SK016_02	Fritz Creek - source to mouth																				1					15.27
ID17040215SK015_02	Horse Creek - source to mouth			1															1							8.42
ID17040215SK003_03	Indian Creek - confluence of West and East Fork Indian Creek			1																						6.04
ID17040215SK012_02	Irving Creek - source to mouth												1						1							13.69
ID17040215SK012_03	Irving Creek - source to mouth																		1							2.56
ID17040215SK006_04	Medicine Lodge Creek - Edie Creek to Indian Creek																		1		1					14.72
ID17040215SK007_03	Middle Creek - Dry Creek to mouth			1									1													5.61
ID17040215SK008_02	Middle Creek - source to Dry Creek																		1							12.12
ID17040215SK005_02	West Fork Indian Creek - source to mouth			1									1													24.45
	Summary for 17040215 (14 detail records)																									*262.29 00009*
HUC	*17040216*																									
ID17040216SK001_04	Birch Creek - Reno Ditch to playas							1											1							24.7
	Summary for 17040216 (1 detail record)																									*24.700 00076*
HUC	*17040217*																									
ID17040217SK008_03	Badger Creek - source to mouth																				1					6.55
ID17040217SK019_03	Summit Creek - source to mouth																				1					9
ID17040217SK019_02a	Moffett Creek			1																						44.96
ID17040217SK003_02	Big Spring Creek - source to mouth																				1					8.1
ID17040217SK003_03	Big Spring Creek - source to mouth																				1					7.1

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040217SK003_04	Big Spring Creek - source to mouth																				1					1.98
ID17040217SK025_02	Deer Creek - source to mouth																				1					17.21
ID17040217SK020_03	Dry Creek - Dry Creek Canal to mouth																				1					14.64
ID17040217SK021_02	Dry Creek - source to Dry Creek Canal																				1					46.67
ID17040217SK021_03	Dry Creek - source to Dry Creek Canal																				1					2.69
ID17040217SK007_04	Little Lost River - Badger Creek to Big Spring Creek			1																						14.14
ID17040217SK002_05	Little Lost River - Big Spring Creek to canal (T06N, R28E)			1																						5.77
ID17040217SK001_05	Little Lost River - canal (T06N, R28E) to playas																				1					18.62
ID17040217SK010_04	Little Lost River - confluence of Summit and Sawmill Creeks			1																						8.56
ID17040217SK009_02	Little Lost River - Wet Creek to Badger Creek																				1					54.26
ID17040217SK009_04	Little Lost River - Wet Creek to Badger Creek			1																						8.89
ID17040217SK014_02	Sawmill Creek - confluence of Timber Creek and Main Fork to			1																						33.78
ID17040217SK014_04	Sawmill Creek - confluence of Timber Creek and Main Fork to																				1					7.65
ID17040217SK012_04	Sawmill Creek - Warm Creek to mouth																				1					8.13
ID17040217SK015_02	Squaw Creek - source to mouth																				1					12.53
ID17040217SK023_02	Squaw Creek - source to mouth			1																						25.9
ID17040217SK024_02	Wet Creek - source to Squaw Creek			1									1													53.22

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040217SK024_03	Wet Creek - source to Squaw Creek																				1					5.8
ID17040217SK022_03	Wet Creek - Squaw Creek to mouth																				1					8.36
	Summary for 17040217 (24 detail records)																									*424.50* *99968*
HUC	*17040218*																									
ID17040218SK047_04	Antelope Creek - Dry Fork Creek to Spring Creek																		1		1					3.56
ID17040218SK046_02	Antelope Creek - Spring Creek to mouth																		1		1					49.58
ID17040218SK046_05	Antelope Creek - Spring Creek to mouth																		1		1					26.72
ID17040218SK004_06	Big Lost River - Antelope Creek to Spring Creek							1			1								1		1					38
ID17040218SK024_02	Big Lost River - Burnt Creek to Thousand Springs Creek			1																						98.61
ID17040218SK024_03	Big Lost River - Burnt Creek to Thousand Springs Creek			1																						1.4
ID17040218SK024_05	Big Lost River - Burnt Creek to Thousand Springs Creek							1											1							21.44
ID17040218SK013_05	Big Lost River - Jones Creek to McKay Reservoir							1											1							4.03
ID17040218SK002_06	Big Lost River - Spring Creek to Big Lost River Sinks (playa							1			1								1		1					72.2
ID17040218SK025_02	Big Lost River - Summit Creek to and including Burnt Creek			1																						30.42
ID17040218SK015_05	Big Lost River - Thousand Springs Creek to Jones Creek							1											1							4.77
ID17040218SK026_02	Bridge Creek - source to mouth							1											1							21.49
ID17040218SK026_03	Bridge Creek - source to mouth							1											1							3.94
ID17040218SK033_02	East Fork Big Lost River - Cabin Creek to mouth			1																						58.56

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040218SK033_03	East Fork Big Lost River - Cabin Creek to mouth																		1		1					1.9
ID17040218SK033_04	East Fork Big Lost River - Cabin Creek to mouth																		1		1					18.35
ID17040218SK039_02	East Fork Big Lost River - source to Cabin Creek																		1		1					37.58
ID17040218SK039_03	East Fork Big Lost River - source to Cabin Creek																		1		1					5.35
ID17040218SK009_02	Pass Creek - source to mouth			1																						50.16
ID17040218SK022_02	Sage Creek - source to mouth												1													35.64
ID17040218SK003_06	Spring Creek - Lower Pass Creek to Big Lost River							1			1								1		1					17.12
ID17040218SK043_02	Warm Springs Creek - source to mouth			1																						65.19
ID17040218SK043_03	Warm Springs Creek - source to mouth			1																						1.19
ID17040218SK020_03	Willow Creek - source to mouth			1																						4.05
	Summary for 17040218 (24 detail records)																									*671.25*
																										00054
HUC	*17040219*																									
ID17040219SK002_06	Big Wood River - Magic Reservoir Dam to mouth			1																						62.47
ID17040219SK030_02	Black Canyon Creek - source to mouth							1												1	1					121.58
ID17040219SK030_03	Black Canyon Creek - source to mouth							1												1						28.05
ID17040219SK027_03	Croy Creek - source to mouth																			1						8.36
ID17040219SK016_02	Eagle Creek - source to mouth			1																						12.78
ID17040219SK016_03	Eagle Creek - source to mouth			1																						1.56
ID17040219SK011_02	East Fork Wood River - source to Hyndman Creek	1		1																						40.69

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040219SK025_02	Greenhorn Creek - source to mouth			1																						29.15
ID17040219SK025_03	Greenhorn Creek - source to mouth			1																						4.48
ID17040219SK015_03	Lake Creek - source to mouth			1																						6.98
ID17040219SK001_06	Malad River - confluence of Black Canyon Creek and Big Wood			1																						17.57
ID17040219SK008_02	Quigley Creek - source to mouth															1				1	1					15.9
ID17040219SK028_02	Rock Creek - source to mouth	1																			1					39.41
ID17040219SK005_05	Seamans Creek - Slaughterhouse Creek to mouth			1																						5.62
ID17040219SK006_02	Seamans Creek - source to and including Slaughterhouse Creek			1																						40.3
ID17040219SK006_05	Seamans Creek - source to and including Slaughterhouse Creek			1																						0.21
ID17040219SK029_02	Thorn Creek - source to mouth			1																						59.24
ID17040219SK024_03	Warm Springs Creek - source to and including Thompson Creek	1														1			1							7.74
ID17040219SK024_02	Warm Springs Creek - source to and including Thompson Creek			1																						73.72
	Summary for 17040219 (19 detail records)																									*575.81 00008*
HUC	*17040220*																									
ID17040220SK013_05	Camas Creek - Corral Creek to Soldier Creek																		1							10.41
ID17040220SK001_05	Camas Creek - Elk Creek to Magic Reservoir																		1							14.11
ID17040220SK007_05	Camas Creek - Solider Creek to Elk Creek																		1							14.44

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040220SK018_03	Camas Creek - source to Corral Creek																		1							18.63
ID17040220SK018_04	Camas Creek - source to Corral Creek																		1							20.53
ID17040220SK018_02	Camas Creek - source to Corral Creek																		1							135.59
ID17040220SK002_03	Camp Creek - source to mouth			1																						4.79
ID17040220SK002_02	Camp Creek - source to mouth			1																						37.28
ID17040220SK015_03	Corral Creek - confluence of East Fork and West Fork Corral			1																						10.64
ID17040220SK006_02	Elk Creek - source to mouth			1																						18.45
ID17040220SK025_02	McKinney Creek - source to Mormon Reservoir			1																						17.48
ID17040220SK025_03	McKinney Creek - source to Mormon Reservoir			1																						2.26
ID17040220SK011_02	Soldier Creek - Wardrop Creek to mouth	1						1			1								1							15.21
ID17040220SK021_03	Wildhorse Creek - source to mouth			1																						6.97
ID17040220SK003_04	Willow Creek - Beaver Creek to mouth			1																						9.78
	Summary for 17040220 (15 detail records)																									*336.56* *99942*

HUC	17040221																									
ID17040221SK022_03	Dry Creek - source to mouth	1						1			1								1							11.61
ID17040221SK022_02	Dry Creek - source to mouth	1						1			1								1							39.65
ID17040221SK006_03	Fish Creek - Fish Creek Reservoir Dam to mouth	1						1			1								1							2.67
ID17040221SK006_04	Fish Creek - Fish Creek Reservoir Dam to mouth	1						1			1								1							16.6
ID17040221SK008_02	Fish Creek - source to Fish Creek Reservoir	1						1			1								1							52.94

Basin	Segment Name	Bac	Cd	Ukn	Pb	Hg	Met	Nut	O/G	Org	DO	IOrg	Path	Pest	pH	P	Sa	Se	Sed	TSS	Tem	TDG	Tox	NH3	Z	SIZE
ID17040221SK008_03	Fish Creek - source to Fish Creek Reservoir	1						1			1								1							16.48
ID17040221SK008_04	Fish Creek - source to Fish Creek Reservoir	1						1			1								1							1.36
ID17040221SK002_05	Little Wood River - Carey Lake outlet to Richfield (T04S, R1							1											1		1					25.77
ID17040221SK010_05	Little Wood River - Little Wood River Reservoir Dam to Carey	1						1			1								1							14.08
ID17040221SK020_02A	Cold Spring Creek			1																						16.79
ID17040221SK003_05	Little Wood River - West Canal (north) to West Canal (south)	1						1			1								1							14.52
ID17040221SK014_02	Muldoon Creek -source to mouth			1																						86.81
ID17040221SK014_03	Muldoon Creek -source to mouth																				1					24.29
ID17040221SK014_04	Muldoon Creek -source to mouth			1																						3.53
ID17040221SK023_02	Silver Creek - source to mouth			1																						71.4
ID17040221SK023_03	Silver Creek - source to mouth			1																						25.26
ID17040221SK009_03	West Fork Fish Creek - source to Fish Creek Reservoir	1						1			1								1							3.33
	Summary for 17040221 (17 detail records)																									*427.09*
	Summary for Upper Snake (394 detail records)																									*00017* *8767.6* *39994*
Grand Total																										*27874.04*

Response to Public Comments: 2002 Integrated Report

DEQ conducted a 60-day public comment period on the Policies and Procedures document and water body specific actions taken in Idaho's 2002 Integrated Report. 26-comment letters were received and DEQ most appreciates those that were provided online via DEQ's web based mapping project. Some comments came after the close of the comment period yet and all comments were considered and included.

The following 174-page table forms DEQ's response to comments regarding actions taken on the Draft 2002 Integrated Report and incorporated in the final 2002 Integrated Report. Comment 27 is DEQ internal comments reflecting updates/changes/ and/or corrections that occurred between the DRAFT and Final version of the 2002 Integrated Report. Any comments, which have no Assessment Unit identified, are comments relating to policy. In the table the reference to the "Temperature Package" directs the reader to DEQ's web site to view a collection of maps, spreadsheets and other supporting documents that prove to complex to contain in the format of this document. This package is in response to specific EPA comments in a letter dated August 14, 2003. Most of the information is contained here in Appendix A. Comments pertaining to two sets of Wilderness AUs have information supported by maps in Appendix B: Monumental Creek and Appendix C: Yellowjacket Creek.

DEQ found Comment Letter 20 from the Committee for the High Desert to be exceedingly burdensome. The Committee did not reference Assessment Units (AU). AUs are the key DEQ's geographically based reference system and are supported by an extensive online mapping project to facilitate clear and rapid comment and communication. The Committee referenced place names that lead to geographic uncertainty. DEQ spent over 3 months responding to this single comment letter. DEQ cannot exhaust these kinds of resources in the future. It is important, as DEQ noted, for comments to provide locational information, specifically AUs, so DEQ can appropriately respond to the comment. This level of effort for a single comment letter cannot be maintained. In future reporting cycles all correspondence needs to reference assessment units in order for DEQ to respond.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050121SW007_02	Silver Creek 1st & 2nd	DEQ	97SWIROA72 = FS	Tier I Data = FS (Section 2).
ID17040205SK020_04	Grays Lake Outlet	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree.
ID17060201SL015_02	Garden Creek - source to mouth	DEQ	This comment applies to the entire assessment unit. Garden Creek was determined, in the 2003 Upper Salmon River Subbasin Assessment, to fully support its aquatic life beneficial uses above the City of Challis. From the City of Challis to its confluence with the Salmon River it is impaired by habitat alteration and flow alteration. Over this segment it should be placed in category 4C. Above the boundary it is in full support and should not be 303(d) listed.	Agree.
ID17060201SL020_02	Kinnikinic Creek - source to mouth	DEQ	This comment applies to the entire assessment unit. Kinnikinic Creek has received Best Management Plan implementation in 2001. Streambank sloping, channel reconstruction, revegetation, erosion control, restoration of flow, are remedies for mass wasting, and windborn deposition of sediment from tailings piles that have resulted from historic mining. Monitoring has indicated that there has been much improvement in riparian and aquatic life conditions over the area of disturbance. Kinnikinic Creek was identified in the Upper Salmon River Subbasin Assessment and TMDL as being in post-implementation recovery and should appropriately be placed in category 4B. It is in full support of aquatic life beneficial uses above the Clayton Silver Mine, which has been the historic source of impairment.	Agree.
ID17060201SL028_02	Thompson Creek	DEQ	This comment applies to the entire assessment unit. Thompson Creek has received Best Management	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
			Plan implementation adjacent to the Scheelite Jim Mill prior to 303(d) listing. Streambank sloping, artificial wetland construction to remove contaminants, channel reconstruction, revegetation, and erosion control, are remedies for precipitation of iron oxide and manganese oxide from tailings piles that have resulted from historic mining and milling. Monitoring has indicated that there has been much improvement in riparian and aquatic life conditions over the area of disturbance. Thompson Creek was identified in the Upper Salmon River Subbasin Assessment and TMDL as being in post-implementation recovery and should appropriately be placed in category 4B. It is in full support of aquatic life beneficial uses above the Scheelite Jim Mill which has been the historic source of impairment to the stream. The Thompson Creek Mine is governed under a discrete Plan of Operation that provides for permitting of NPDES Permits and monitoring of mining operations and water quality. Thompson Creek should appropriately be placed in section 4B from the Scheelite Jim Millsite downstream and section 4C from Buckskin Creek to the Scheelite Jim Millsite. It is in Full Support of Aquatic Life Beneficial Uses above the confluence of Buckskin Creek, which is above the influence of the Thompson Creek Mine, and this segment should be removed from the 303(d) list.	
ID17060201SL028_03	Thompson Creek	DEQ	This comment applies to the entire assessment unit. Thompson Creek has received Best Management Plan implementation adjacent to the Scheelite Jim Mill prior to 303(d) listing. Streambank sloping, artificial wetland construction to remove contaminants, channel reconstruction, revegetation, and erosion control, are remedies for precipitation of	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
			iron oxide and manganese oxide from tailings piles that have resulted from historic mining and milling. Monitoring has indicated that there has been much improvement in riparian and aquatic life conditions over the area of disturbance. Thompson Creek was identified in the Upper Salmon River Subbasin Assessment and TMDL as being in post-implementation recovery and should appropriately be placed in category 4B. It is in full support of aquatic life beneficial uses above the Scheelite Jim Mill which has been the historic source of impairment to the stream. The Thompson Creek Mine is governed under a discrete Plan of Operation that provides for permitting of NPDES Permits and monitoring of mining operations and water quality. Thompson Creek should appropriately be placed in section 4B from the Scheelite Jim Millsite downstream and section 4C from Buckskin Creek to the Scheelite Jim Millsite. It is in Full Support of Aquatic Life Beneficial Uses above the confluence of Buckskin Creek, which is above the influence of the Thompson Creek Mine, and this segment should be removed from the 303(d) list.	

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060201SL051_02	Thompson Creek	DEQ	This comment applies to the entire assessment unit. Thompson Creek has received Best Management Plan implementation adjacent to the Scheelite Jim Mill prior to 303(d) listing. Streambank sloping, artificial wetland construction to remove contaminants, channel reconstruction, revegetation, and erosion control, are remedies for precipitation of iron oxide and manganese oxide from tailings piles that have resulted from historic mining and milling. Monitoring has indicated that there has been much improvement in riparian and aquatic life conditions over the area of disturbance. Thompson Creek was identified in the Upper Salmon River Subbasin Assessment and TMDL as being in post-implementation recovery and should appropriately be placed in category 4B. It is in full support of aquatic life beneficial uses above the Scheelite Jim Mill which has been the historic source of impairment to the stream. The Thompson Creek Mine is governed under a discrete Plan of Operation that provides for permitting of NPDES Permits and monitoring of mining operations and water quality. Thompson Creek should appropriately be placed in section 4B from the Scheelite Jim Millsite downstream and section 4C from Buckskin Creek to the Scheelite Jim Millsite. It is in Full Support of Aquatic Life Beneficial Uses above the confluence of Buckskin Creek, which is above the influence of the Thompson Creek Mine, and this segment should be removed from the 303(d) list.	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060201SL073_05	Salmon River - Alturas Lake Creek to Fisher Creek	DEQ	This comment applies to the entire assessment unit. The Salmon River was evaluated by USGS in October 1999 as part of the 2001 Middle Salmon River - Panther Creek and 2003 Upper Salmon River Subbasin Assessment and TMDL. Based on the fish community the Salmon River was determined to fully support its aquatic life beneficial uses. This issue was addressed in the 2001 Upper Salmon River Subbasin Assessment and TMDL. The Salmon River should be appropriately placed in Section 1.	Agree.
ID17060201SL075_02	Alturas Lake Creek - Alturas Lake to mouth	DEQ	This comment applies to the selected stream segment. Alturus Lake Creek is a lake outlet with no identifiable sediment sources or thermal loading sources other than Alturus Lake during July and August. As such it should not be listed as impaird. The map associated with this assessment unit does not correctly identify Alturus Lake Creek. Alturus Lake Creek above the Lake, and Alturus Lake are in full support of aquatic life beneficial uses. The listing of Alturus Lake Creek is in error and should be removed from the list of impaired waters.	Agree.
ID17060201SL125_03	Road Creek - source to Corral Basin Creek	DEQ	This comment applies to the selected stream segment. Road Creek has been under improved grazing management by the Bureau of Land Management-Challis Field Office since 1996. Riparian conditions are optimal and streambank stability is improving. Fish communities are intact and are full support over this segment. Road Creek was identified in the Upper Salmon River Subbasin Assessment and TMDL as being in post-implementation recovery, in full support of its aquatic life beneficial uses and should appropriately be placed in category 4B.	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060202SL034_03	Patterson Creek - Inyo Creek to mouth	DEQ	This comment applies to the selected stream segment. Patterson Creek is entirely diverted below the mouth of the canyon and there is not return flow to the natural channel. Patterson Creek is in full support of aquatic life beneficial uses above the confluence of Inyo Creek. It was identified in the 2001 Pahsimeroi River Subbasin Assessment and TMDL as impaired by flow alteration and should be moved to the appropriate category 4C.	Agree.
ID17060202SL034_04	Patterson Creek - Inyo Creek to mouth	DEQ	This comment applies to the entire assessment reach. Patterson Creek is entirely diverted below the mouth of the canyon and there is not return flow to the natural channel. Patterson Creek is in full support of aquatic life beneficial uses above the confluence of Inyo Creek. It was identified in the 2001 Pahsimeroi River Subbasin Assessment and TMDL as impaired by flow alteration and should be moved to the appropriate category 4C.	Agree.
ID17060202SL037_03	Morse Creek - Irrigation junction to mouth	DEQ	This comment applies to the selected stream segment. Morse Creek is entirely diverted at the mouth of the canyon and there is not return flow to the natural channel. Morse Creek is in full support of aquatic life beneficial uses above the diversion. It was identified in the 2001 Pahsimeroi River Subbasin Assessment and TMDL as impaired by flow alteration and should be moved to the appropriate category 4C.	Agree.

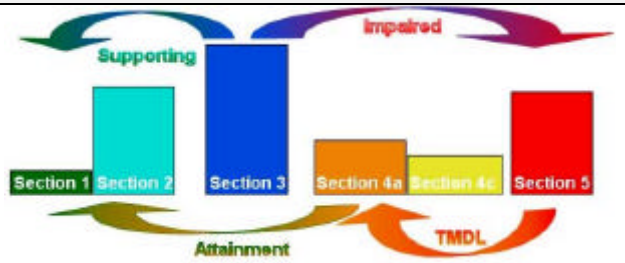
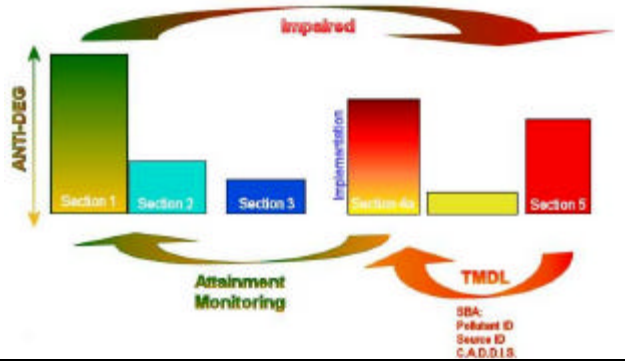
AUs	Waterbody Name	Commentor	Comments	Responses
ID17060202SL039_03	Morgan Creek - source to mouth	DEQ	This comment applies to the selected stream segment. Morgan Creek is entirely diverted at the mouth of the canyon and there is not return flow to the natural channel. Morgan Creek is in full support of aquatic life beneficial uses above the diversion. It was identified in the 2001 Pahsimeroi River Subbasin Assessment and TMDL as impaired by flow alteration and should be moved to the appropriate category 4C.	Agree.
ID17060203SL	Salmon River	DEQ	This comment applies to the selected stream segment. The Salmon River was evaluated by USGS in October 1999. Based on the fish community the Salmon River was determined to fully support its aquatic life beneficial uses. This issue was addressed in the 2001 Middle Salmon River - Panther Creek Subbasin Assessment and TMDL.	Agree.
ID17060203SL	Salmon River	DEQ	This comment applies to the selected stream segment. The Salmon River was evaluated by USGS in October 1999. Based on the fish community the Salmon River was determined to fully support its aquatic life beneficial uses. This issue was addressed in the 2001 Middle Salmon River - Panther Creek Subbasin Assessment and TMDL.	Agree.
ID17060203SL002_05	Panther Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree.
ID17060203SL009_02	Bucktail Creek - source to mouth	DEQ	Bucktail Creek has had a Use Attainability Assessment completed by the Department of Environmental Quality and should be placed in Category 4B.	Agree.
ID17060203SL010_05	Panther Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060203SL011_02	Panther Creek - Blackbird Creek to Napias Creek	DEQ	This comment applies to the selected stream segment. Panther Creek from the confluence of Blackbird Creek to Napias Creek is included under a CERCLA action that is in process to identify appropriate remediation actions, load reductions, implementation projects, implementation monitoring and fisheries restoration projects. A TMDL will not be developed until such Agree.ments are reached and implementation/monitoring shows a definitive need for additional load allocations based on aquatic life beneficial use support status. This stream should be placed in Category 4B.	Agree.
ID17060203SL012b_02	Blackbird Creek - Blackbird Reservoir Dam to mouth	DEQ	This comment applies to just the selected stream segment. Blackbird Creek has had a Use Attainability Assessment completed by the Department of Environmental Quality and should be placed in Category 4B.	Agree.
ID17060203SL038_03	Dump Creek – Moose Creek to mouth	DEQ	The following river segment description may be in error: This comment applies to the selected stream segment. Dump Creek has received Best Management Plan implementation prior to it's 303(d) listing. Streambank sloping, revegetation, erosion control, and diversion of peak flow into Moose Creek are remedies for mass wasting that has resulted from historic hydraulic mining. Monitoring has indicated that there has been much improvement in riparian and aquatic life conditions below the area of disturbance. Dump Creek was identified in the Middle Salmon River-Panther Creek TMDL as being in post-implementation recovery and should appropriately be placed in category 4B	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060203SL053_07	Salmon River - Pahsimeroi River to Iron Creek	DEQ	This comment applies to the entire assessment unit. The Salmon River was evaluated by USGS in October 1999 as part of the 2001 Middle Salmon River - Panther Creek Subbasin Assessment and TMDL. Based on the fish community the Salmon River was determined to fully support its aquatic life beneficial uses. This issue was addressed in the 2001 Middle Salmon River - Panther Creek Subbasin Assessment and TMDL.	Agree.
ID17060204SL001_06	Lemhi River	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Approved Bacteria TMDL; Move to section 4a.
ID17060204SL017_02	Short Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	AU should be listed as “not assessed.”
ID17060204SL024_05	Lemhi River	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Approved Bacteria TMDL; Move to section 4a.
ID17060205SL014_02	Sheep Trail Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree.
ID17060205SL015_02	Cub Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree.
ID17060205SL016_03	Cache Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree.
ID17040209SK009_02 HUC 17040209	South Fork Rock Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Previously on the 1998 303(d) list; The stream will be in Section 5 of the Integrated Report until Tier 1 data show that the stream is in full support of its beneficial uses and that no water quality criteria violations exist.
ID17040211SK010_03 HUC 17040211	Blue Hill Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Previously on the 1998 303(d) list; The stream will be in Section 5 of the Integrated Report until Tier 1 data show that the stream is in full support of its beneficial uses and that no water quality criteria violations exist.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040213SK016_02 HUC 17040213	Hopper Gulch	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	This AU is present in Section 5.
ID17060305CL006_03	Stockney Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Stockney Creek was evaluated in the Cottonwood Creek TMDL and approved by EPA 6-6-00. This AU will be listed in Section 4a.
ID17060306CL026_04	Lolo Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier 1 data indicate Full Support. 1997 tribal monitoring data indicate good habitat and a strong aquatic community.
ID17060306CL041_03	Bedrock Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Agree. This AU appears in Section 5.
ID17060306CL066_02	Catholic Creek	DEQ	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	This AU appears in Section 5.
		EPA	Waters Removed or not listed sole due to “a priori natural” (6 waters) Comment: While DEQ provided a brief reason for the water to be excluded in the table, there is not adequate information for EPA to determine and document whether the de-listing is appropriate. Suggestion: EPA requests additional information about DEQ’s rationale for not including specific waters in Section 5 (303(d) list). For each stream DEQ proposes to not list due to “a priori natural,” EPA requests DEQ provide a waterbody-specific summary of the factors DEQ considered in deciding the water should not be listed. This request is consistent with the implementation plan (Mebane and Essig, 2003) that accompanied the natural condition-related water quality standards revisions submitted to EPA.	Please see Temperature package.

AUs	Waterbody Name	Commentor	Comments	Responses
		EPA	Waters Removed or Not listed due to frequency of exceedance being less than assessment threshold (8 waters) Comment: The reason for not listing in this circumstance is very brief. EPA acknowledges that DEQ explains how DEQ determines temperature criteria exceedance in WBAG II and the list methodology. However, there is not adequate information for EPA to determine and document whether the de-listings are appropriate for these specific water bodies. Suggestion: EPA requests DEQ include a summary of how many samples there were and how many exceeded criteria. DEQ may do this in a table format (such as the one suggested in the comments below), using a "Supporting data," or similarly titled column.	Please see Temperature package.
		EPA	Tracking Changes from the 1998 List and the 2002 Integrated Report : Comment: The format of 303(d) listing has changed since 1998. In response to EPA guidance entitled, " 2002 Integrated Report Guidance (dated November 19, 2001)," DEQ developed a five part Integrated Report, began reporting Assessment Units (AUs) and began using National Hydrography Database (NHD) and Assessment Database (ADB) to submit Integrated Reports. With the many changes, it may be difficult to follow a waterbody from the 1998 to the 2002 303(d) list.	A crosswalk will be provided in the submittal package and will be posted on the Web upon EPA approval.
		EPA	Description of How Waters Move Between Categories Comment: On page 18 (Section 17. De-listed Waters) of its list methodology, DEQ explains how waters previously listed in 1998 may be moved to	Agree. EPA has viewed a draft of this flow chart similar to below:

AUs	Waterbody Name	Commentor	Comments	Responses
			Category 2 (meets Water Quality Standards for some uses and not threatened for any use) if newer data showed the WQS are met. However, DEQ does not mention whether there are other reasons for a water to be de-listed. One other reason for waters moving from one category to another is "TMDL approved." Suggestion: In its 2004 guidance, DEQ may consider adding a flow chart for how waters move between categories and adding a description for how waters move to other categories, such as to 4a and 4c or from category 3.	 Above represents how movement looks currently and below is the direction DEQ is going: 
		EPA	Waters Removed or Not listed due to not meeting minimums in Idaho's WBAG II (3 waters) Comment: EPA appreciates the detailed description of how DEQ determines temperature criteria exceedance in WBAG II and the list methodology. Previously, DEQ's practice regarding how to determine temperature exceedances was not clearly communicated. Thus, in 1998, EPA listed these three waters due to one grab sample exceeding criteria. Suggestion: EPA recommends DEQ include a column in the table to indicate to which category/section the waterbody will be placed for the 2002 Integrated Reporting Cycle	Please see Temperature package.

AUs	Waterbody Name	Commentor	Comments	Responses
		EPA	DEQ has experienced database programming errors, which have impacted the way the report displays the information. We understand that it is not a data problem, but a report display problem, and that DEQ is now working to reconcile this problem. EPA and DEQ discussed that, in the event that they are unable to fix this in a timely fashion, DEQ would provide Region 10 an alternate spreadsheet, such as TMDL tracking spreadsheet.	This programming error mainly affected Section 4a, especially with regard to Flow and Habitat Alteration, but has since been resolved. If this section is found to have errors, the "Region X TMDL Completed Spreadsheet" maintained by EPA and DEQ functionality replaces it by default.
		EPA	During the aforementioned July 31, 2003 meeting, DEQ reported 4 waters in the state do not have accurate representation in the NHD at the 1:24,000 scale. EPA acknowledges this is a problem experienced nationwide. DEQ is working with EPA to resolve this. Some options discussed were submitting a textual description of where these waters are located or manually recording the water into NHD. EPA requests DEQ briefly explain how these difficulties are resolved in its comment responsiveness summary.	This problem exists at the 1:100,000 scale and applies only to one small tributary to an AU listed in Section 5.
		EPA	Status of Previously listed waters: DEQ acknowledged an error occurred while using the assessment database to track previously listed waters. In the data base, waters are assigned a value: a very low negative number if it is impaired and a positive number (usually +1) if it is not impaired. Thus every water should have a value above or below 0. However, a few waters did not have positive or negative numbers (had 0s), which indicated that critical information was not provided by regional office staff. Mike Edmondson is working with regional staff to reconcile these errors and will provide a table to show how he did so.	This has been resolved and all segments are accounted for.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060206SL012_02	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	Section 5 (as in 1998 list).
ID17060206SL012_03	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	Section 5 (as in 1998 list).
ID17060206SL012_04	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	Section 5 (as in 1998 list).
ID17060206SL014_02	WF of Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	Section 1 Wilderness; Different watershed from the Dewey Mine.
ID17060206SL012_02	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	See Monumental Creek Map (attached) and/or ADB.
ID17060206SL012_03	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	See above.
ID17060206SL012_04	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	See above.
ID17060206SL014_02	WF of Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	See above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060206SL037_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	See Yellow Jacket Creek Map (attached) and/or ADB.
ID17060206SL038_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	See above.
ID17060206SL039_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	See above.
ID17060206SL041_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	See above.
ID17060206SL043_02	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	See above.
ID17060206SL043_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	See above.
ID17060206SL012_02	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	This AU is not supporting its uses and is in Section 5.
ID17060206SL012_03	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	This AU is not supporting its uses and is in Section 5.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060206SL012_04	Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	Lower Monumental Creek is supporting all of its uses.
ID17060206SL014_02	WF of Monumental Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Monumental Creek should be evaluated for impacts from the Dewey Mine	This AU is not downstream of current or historic mines. This AU is the headwaters and 2nd order tributaries to the West Fork of Monumental Creek. The small creeks that comprise the tributaries to the West Fork of Monumental Creek are wholly contained in the Wilderness and do not have any private inholdings or roads.
ID17060206SL037_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	This unit is fully supporting its beneficial uses, is wholly contained in the wilderness, and is not downstream of current or historic mines.
ID17060206SL038_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	This AU is not assessed.
ID17060206SL039_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	This AU is not assessed.
ID17060206SL041_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	This AU is not assessed.
ID17060206SL043_02	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	This AU has been assessed as Full Support.
ID17060206SL043_03	Yellowjacket Creek	1	Waterbodies that these are downstream from previous and/or current mining activity. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine	This AU has been assessed as Full Support.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060304CL002_04T	Clear Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060304CL011_03T	Maggie Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060305CL001_05T	South Fork of the Clearwater River	1	sediment impairment in the tributaries	The tributaries are not part of the ID17060305CL001_05T AU. Sediment is listed in ID17060305CL001_05 AU. This AU has been evaluated in the SF Clearwater SBA and TMDL (2002). The Fish TAG ID Spring Chinook as spawning in the lower main stem during temp critical times of year. Temperature exceeds criteria for SS and CWB.
ID17060305CL012_05T	South Fork of the Clearwater River	1	sediment impairment in the tributaries	The tributaries are not part of the ID17060305CL012_05 AU. Sediment is listed in ID17060305CL001_05 AU. This AU has been evaluated in the SF Clearwater SBA and TMDL (2002). The Fish TAG ID Spring Chinook as spawning in the lower main stem during temp critical times of year. Temperature exceeds criteria for SS and CWB.
ID17060306CL002_07T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL002_07T	Catholic Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL004_05T	Lapwai Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL005_04T	Sweetwater Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL005_04T	Sweetwater Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 3 as ID17060306CL005_04.
ID17060306CL006_04T	Sweetwater Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL006_04T	Sweetwater Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 3 as ID17060306CL006_04.
ID17060306CL007_02T	Webb Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL007_02T	Webb Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL007 and is carried forward from the 1994 303(d) list.
ID17060306CL008_03T	Lapwai Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL008_04T	Lapwai Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL009_03T	Lapwai Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL010_02T	Lapwai Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL010_03T	Lapwai Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL011_02T	Mission Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL011_02T	Mission Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 3 as ID17060306CL011_02.
ID17060306CL011_03T	Mission Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL011_03T	Mission Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 2 as ID17060306CL011_03.
ID17060306CL013_03T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL013_07T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL013_07T	Bedrock Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL013_07T	Bedrock Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL013_07 listed for Total Dissolved Gas.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL013_08T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL014_02T	Cottonwood Creek (Nez Perce County)	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	The 2nd Order of WBID CL014 did not appear on the 1998 303(d) list. This AU now appears in Section 3 as ID17060306CL014_02.
ID17060306CL014_02T	Cottonwood Creek (Nez Perce County	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority	This AU appears in Section 3. See policy response to comment in policy section for Commentor #1.
ID17060306CL014_02T	Cottonwood Creek (Nez Perce County)	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 3.
ID17060306CL014_03T	Cottonwood Creek (Nez Perce County)	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	The 3erd Order of WBID CL014 did not appear on the 1998 303(d) list. This AU now appears in Section 3.
ID17060306CL014_03T	Cottonwood Creek (Nez Perce County)	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL014_03T	Cottonwood Creek (Nez Perce County)	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 2 as ID17060306CL014_03.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL015_02T	Jacks Creek	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This AU now appears in Section 2 as ID17060306CL015_02.
ID17060306CL015_02T	Jacks Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL015_02T	Jacks Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU is supporting and now appears in Section 2 as ID17060306CL015_02.
ID17060306CL016_02T	Big Canyon Creek, and	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This appears in Section 5 as ID17060306CL016_02.
ID17060306CL016_02T	Big Canyon Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL016_02T	Big Canyon Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This appears in Section 5 as ID17060306CL016_02.
ID17060306CL016_03T	Big Canyon Creek, and	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This appears in Section 5 as ID17060306CL016_03.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL016_03T	Big Canyon Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL016_03T	Big Canyon Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This appears in Section 5 as ID17060306CL016_03.
ID17060306CL018_04T	Little Canyon Creek	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This appears in Section 2 as ID17060306CL018_04.
ID17060306CL018_04T	Little Canyon Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL018_04T	Little Canyon Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This unit was assessed as full support in 1998.
ID17060306CL021_06T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL022_02T	Fivemile Creek	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This unit appears in Section 2 as ID17060306CL022_02.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL022_02T	Fivemile Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL022_02T	Tom Taha Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL022_02T	Tom Taha Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This unit was assessed as full support in 1998.
ID17060306CL022_02T	Fivemile Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	See above.
ID17060306CL022_03T	Fivemile Creek	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This AU appears in Section 2 as ID17060306CL022_03.
ID17060306CL022_03T	Fivemile Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL022_03T	Tom Taha Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See above.
ID17060306CL022_03T	Tom Taha Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 2 as ID17060306CL022_03.
ID17060306CL022_03T	Fivemile Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 2 as ID17060306CL022_03.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL022_06T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL023_02T	Sixmile Creek	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This AU appears in Section 5 as ID17060306CL023_02.
ID17060306CL023_02T	Sixmile Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL023_02T	Sixmile Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL023_02.
ID17060306CL023_03T	Sixmile Creek	1	First, the 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	This AU appears in Section 5 as ID17060306CL023_03.
ID17060306CL023_03T	Sixmile Creek	1	Second, the Tribe requests that reference be removed to waterbodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps. Again, these waterbodies are outside the scope of IDEQ's Clean Water Act authority.	See policy response to comment in policy section for Commentor #1.
ID17060306CL023_03T	Sixmile Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL023_03.
ID17060306CL024_03T	Lawyer Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	This AU appears in Section 5 as ID17060306CL024_03. See policy response to comment in policy section for Commentor #1.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL024_04T	Lawyer Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	This AU appears in Section 2 as ID17060306CL024_04.
ID17060306CL025_02T	Sevenmile Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL025_02.
ID17060306CL025_03T	Sevenmile Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL023_02.
ID17060306CL026_04T	Portions of the Clearwater River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL026_04T	Lolo Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	This AU appears in Section 2 as ID17060306CL026_04.
ID17060306CL039_04T	Orofino Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL041_03T	Bedrock Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL041_03T	Bedrock Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL041_03.
ID17060306CL043_03T	Pine Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL043_03T	Pine Creek	1	The Tribe and EPA are currently working on the TMDL assessments for the listed waterbodies.	This AU appears in Section 5 as ID17060306CL043_03 and is correctly carried over from the 1998 303(d) list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL044_06T	Potlatch River	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
ID17060306CL066_02T	Catholic Creek	1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See policy response to comment in policy section for Commentor #1.
		1	First, the Tribe would like to remind IDEQ that EPA and the Tribe are responsible for implementation of the Clean Water Act for Reservation water bodies and the 1994 § 303(d) list is still in affect for these waters. The 2002/2003 Draft Integrated Report incorrectly states, "[T]he status of AU's within the Reservation boundary was maintained with respect to the 1998 § 303 (d) list unless there was an EPA approved TMDL".	Waters on the 1998 303(d) List and in the 2002/2003 Integrated Report may be partially or wholly within Indian reservations, on lands held by tribal members subject to a restriction on alienation, and/or held by the United States in trust for Indian Tribes. The draft Integrated Report was accompanied by a map that showed the Tribal reservation boundaries recognized by the EPA and other federal agencies. AUs were edited to end and/or begin at the federally-recognized reservation boundaries, and some waters were accordingly identified as tribal waters. DEQ has determined, however, that splitting AUs in this manner makes some of the beneficial use calls incorrect or inconsistent with the WBAGII method of assessment. For example, when some of the AUs were split, there was no longer a sampling or assessment site within the boundaries of the AU that would support the beneficial use determination. In order to remedy this situation, DEQ has removed the reservation boundaries from the map, and the AUs are now kept intact even where they may cross Tribal reservation boundaries. DEQ has instead included a new Appendix that identifies those waters that may be within the federally recognized Tribal reservations. DEQ's actions with respect to the integrated report and such waters, including the identification of tribal waters and the description of reservation boundaries,

AUs	Waterbody Name	Commentor	Comments	Responses
				do not constitute a determination, waiver, admission, or statement on the part of the State of Idaho with respect to jurisdiction over such waters or the boundaries of any tribal reservation. The status of the AUs within the federally-recognized reservation boundaries was maintained with respect to the 1998 303(d) unless there was an EPA approved TMDL.
		1	Second, the Tribe requests that reference be removed to water bodies wholly contained within the exterior boundaries of the Reservation from Sections 1 through 5 of the report in addition to the web site maps.	See answer to above.
		1	Third, the Tribe requests that reference be removed to other waters that are partly inside the Reservation boundaries from Sections 1 through 5 of the report in addition to the web site maps.	See answer to above.
		1	The Nez Perce Tribe questions this assertion as there have been many historic mining and grazing impacts in these watersheds. While these systems may often be recovering from historic impacts, they are not pristine in many cases. In addition, there are current mining claims in many of these areas which have potential to degrade wilderness streams with tailings containing heavy metals, sediment, and chemicals (i.e., the Golden Hand Project in the Frank Church – River of No Return Wilderness). These water bodies should be evaluated for historic and current activities including reclamation, which may impair beneficial uses.	DEQ concurs with the concept and carefully screened each AU proposed for Section 1 as outlined in DEQ's Principles and Policies for the Integrated Report. Many AUs in and around the Frank Church River of No Return Wilderness were rejected due to similar concerns. On page 21 of Principles and Policies for the 2002/2003 DRAFT INTEGRATED (303(d)/305(b)) REPORT (Principles and Policies Document hereafter) for the 2002 Integrated Report states: "Natural background condition does not necessarily equal pristine…." Of all the waters in Idaho, these waters stand out, and some waters that have monitored have been selected as part of the reference trend network.
		1	Examples of Section 1 listed water bodies that these are downstream from previous and/or current mining activity include: Monumental Creek, WF of Monumental Creek, and Yellowjacket Creek. Monumental Creek should be evaluated for impacts	There is some cause for concern here due to historic impacts within the Monumental Creek watershed. In the Monumental Creek drainage, there are 2 AUs in question. The first AU is ID17060206SL014_02 and contains second order tributaries to the West Fork of

AUs	Waterbody Name	Commentor	Comments	Responses
			from the Dewey Mine. Yellowjacket Creek should be evaluated for impacts from the extensive Yellowjacket Mine. The WF of Monumental Creek has mining activity identified in the stream corridor. In addition, Monumental Creek is not included in the wilderness boundary for a significant portion and a road parallels the stream in the riparian corridor for approximately 4 miles.	Monumental Creek, excluding Monumental Creek proper, and is not in proximity to any road. This AU will be retained in Section 1. The second AU, ID17060206SL012_04, meets the definitions of Wilderness but is in a location where the Wilderness boundary meanders and does not support the approach DEQ has taken. The 1994 listing of Monumental Creek was not based on data indicating a Water Quality Standards (WQSs) violation or impairment of the beneficial use; rather, it was promulgated by the EPA as a Stream Segment of Concern. Subsequently the bulk of Monumental Creek was delisted in 1998 based on monitoring data. The upper portion remained on the list and, when transferred to AUs, captured many of the 2nd order stream draining directly to Monumentals Creek. The AU will be moved to Section 2. Yellowjacket Creek: This is the 3rd order portion that drains to Camas Creek, a tributary of the Middle Fork of the Salmon River. This AU will be retained in Section 1.
		1	The Nez Perce Tribe would also like to comment on the IDEQ criteria to exclude or remove waters from Section 5 (§ 303 (d) list). The Tribe has concerns regarding the accuracy of sediment assessment in the state's beneficial use methodology used to make listing decisions. Recently, the Tribe identified the inability of WBAG II to discriminate for sediment impairment in the tributaries of the South Fork of the Clearwater River. The Tribe would like IDEQ to review relevant data from land management agencies as required by WBAG II prior to making listing decisions regarding sediment.	DEQ disagrees with the Tribe's assertion that WBAG2 is insensitive to sediment. WBAG2 is neither intended nor has it been promoted to identify pollutants or sources. This step is taken during the Sub BASIN Assessment process. DEQ reviewed and classified all outside data into the appropriate Tiers (1-3) prior to making decisions with WBAG2.

AUs	Waterbody Name	Commentor	Comments	Responses
		2	Idaho Department of Fish and Game staff have reviewed the draft 2002-2003 Integrated 303 (d)/305 (b) Report. While we did find it sometimes difficult to compare this report to the 1998 report, in general we found no obvious inconsistencies in the listings. We do not have, nor are we aware of, additional data to suggest that the waterbody designations and listed pollutants are inappropriately listed. If you have any questions or concerns, please contact me at 287-2715. Thank you for the opportunity to comment.	It is difficult to compare the two documents due to a change in the reporting units. In 1998 stream segments called "water quality limited segments" (WQLSEG) were used and were linear in nature. For the 2002 Integrated Report, DEQ has changes to an AU based approach as a result of EPA guidance to base water quality assessments on a waterbody indexing system based on the National Hydrography Data Set (NHD).
		3	6. Existing and Readily Available Data - How come the Tribes are not mentioned as a data source? The Coeur d' Alene Tribe was petitions for data and we submitted it to personnel in the Coeur d' Alene office.	This comment is unclear. The Principles and Policies document does not name any specific sources of data. All references are categorical: "The data used in the assessment process may be from other agencies, institutions, commercial interests, interest groups, or individuals and may relate to the existence, support status, or associated criteria for the beneficial uses in a waterbody."
		3	7. Data Quality - Once again under the Tier 1 data Tribes are not mentioned.	This seems to be a reference to WBAG2. WBAG2 had its own public comment period and those comments and responses are available here: http://www.deq.state.id.us/water/surface_water/wbag/WBAG2001_Response_Sec2-Sec3.pdf
		3	12. Tribal Waters - The report states "AU's were edited to end and begin at the reservation Boundary." This is not quite correct as many sections of reservation streams are listed in some of your sections. For instance Alder Creek is listed from its headwaters to its mouth.	While all the segments were edited to begin and end at the reservation boundaries, DEQ's display of support status does not constitute a claim or waiving of jurisdictional authority. Segment status was simply moved forward from the 1998 303(d) list. Alder Creek has 2 AUs: ID17010304PN008_02T ID17010304PN008_02
		3	Section 2 - Rivers Supporting some uses: The report lists Benewah Creek as supporting some uses. First we must take this opportunity to remind DEQ that	Waters on the 1998 303(d) List and in the 2002/2003 Integrated Report may be partially or wholly within Indian reservations, on lands held by Tribal members

AUs	Waterbody Name	Commentor	Comments	Responses
			this watershed is entirely within the Coeur d' Alene Reservation and that jurisdiction for assessing water quality and developing cleanup priorities lies solely within the jurisdiction of the Coeur d' Alene Tribe and EPA.	subject to a restriction on alienation, and/or held by the United States in trust for Indian Tribes. The draft Integrated Report was accompanied by a map that showed the Tribal reservation boundaries recognized by the EPA and other federal agencies. AUs were edited to end and/or begin at the federally-recognized reservation boundaries, and some waters were accordingly identified as Tribal waters. DEQ has determined, however, that splitting AUs in this manner makes some of the beneficial use calls incorrect or inconsistent with the WBAGII method of assessment. For example, when some of the AUs were split, there was no longer a sampling or assessment site within the boundaries of the AU that would support the beneficial use determination. In order to remedy this situation, DEQ has removed the reservation boundaries from the map and the AUs are now kept intact even where they may cross Tribal reservation boundaries. DEQ has instead included a new Appendix that identifies those waters that may be within the federally recognized Tribal reservations. DEQ's actions--with respect to the Integrated Report and such waters, including the identification of tribal waters and the description of reservation boundaries--do not constitute a determination, waiver, admission, or statement on the part of the state of Idaho with respect to jurisdiction over such waters or the boundaries of any tribal reservation. The status of the AUs within the federally-recognized reservation boundaries was maintained with respect to the 1998 303(d) unless there was an EPA approved TMDL.
		3	Section 2 - Rivers Supporting some uses: Secondly this stream is currently in the process of receiving a TMDL for sediments, nutrients and dissolved oxygen as it was put on the States 1996 303 (d) list.	See answer to above.

AUs	Waterbody Name	Commentor	Comments	Responses
		3	Section 2 - Rivers Supporting some uses: In this section DEQ does not state that uses are supported. This might be helpful to the general public.	This quantity of information is enormous, and DEQ is best able to display this information through Web-based interactive products at www.deq.state.id.us
		3	Section 3 - Lakes not assessed: Black Lake is listed in this section as not being assessed yet a nutrient TMDL is currently being developed for this Lake as it was listed on the 1996 (303 (d) list.	Black Lake is listed in Section 5 under lakes for Nutrients.
		3	Section 3 - Lakes not assessed: Lamb Creek is listed under the Lakes not assessed shouldn't it be in with the streams not assessed? Lamb Creek lies completely within the Coeur d' Alene Reservation.	Inaccuracies occurred in this section due to the structure of the National Hydrography Dataset (NHD). NHD has “streams” underneath the lakes for flow modeling purposes, and, due to this, some portions of streams will show in the lakes section. All assessment units bordering lakes are being edited to properly display the correct waterbody type for the 2004 Integrated Report.

AUs	Waterbody Name	Commentor	Comments	Responses
		3	Section 3 - Rivers not assessed: Bellgrove, Bozard, Evans, Fighting, Kruse, and Lake Creeks are listed as not being assessed; all but Bellgrove and Kruse have been assessed by the Coeur d' Alene Tribe. These streams are cross-jurisdictional. TMDL's are currently being drafted for Lake and Fighting Creeks	Waters on the 1998 303(d) List and in the 2002/2003 Integrated Report may be partially or wholly within Indian reservations, on lands held by tribal members subject to a restriction on alienation, and/or held by the United States in trust for Indian Tribes. The draft Integrated Report was accompanied by a map that showed the Tribal reservation boundaries recognized by the EPA and other federal agencies. AUs were edited to end and/or begin at the federally-recognized reservation boundaries, and some waters were accordingly identified as tribal waters. DEQ has determined, however, that splitting AUs in this manner makes some of the beneficial use calls incorrect or inconsistent with the WBAGII method of assessment. For example, when some of the AUs were split, there was no longer a sampling or assessment site within the boundaries of the AU that would support the beneficial use determination. In order to remedy this situation, DEQ has removed the reservation boundaries from the map and the AUs are now kept intact even where they may cross Tribal reservation boundaries. DEQ has instead included a new Appendix that identifies those waters that may be within the federally recognized Tribal reservations. DEQ's actions with respect to the Integrated Report and such waters, including the identification of tribal waters and the description of reservation boundaries, do not constitute a determination, waiver, admission, or statement on the part of the state of Idaho with respect to jurisdiction over such waters or the boundaries of any tribal reservation. The status of the AUs within the federally-recognized reservation boundaries was maintained with respect to the 1998 303(d) unless there was an EPA approved TMDL.

AUs	Waterbody Name	Commentor	Comments	Responses
		3	Section 3 - Rivers not assessed: Data was never requested for Bellgrove, Evans, Fighting, and Kruse Creeks.	During a call for data, the State of Idaho is seeking all readily available data pertaining to WQS violations and the beneficial use support status of a waterbody. DEQ does not target specific waters for which to seek data. Above the CDA Tribe states in another comment to DEQ asked, "How come the Tribes are not mentioned as a data source? The Coeur d' Alene Tribe was petitions for data and we submitted it to personnel in the Coeur d' Alene office."
		3	Section 3 - Rivers not assessed: Benewah, Cherry, Peedee, and Plummer, have all been assessed except for Peedee by the Coeur d' Alene Tribe. These four streams all lie within the Coeur d' Alene Reservation	Waters on the 1998 303(d) List and in the 2002/2003 Integrated Report may be partially or wholly within Indian reservations, on lands held by tribal members subject to a restriction on alienation, and/or held by the United States in trust for Indian Tribes. The draft Integrated Report was accompanied by a map that showed the Tribal reservation boundaries recognized by the EPA and other federal agencies. AUs were edited to end and/or begin at the federally-recognized reservation boundaries, and some waters were accordingly identified as tribal waters. DEQ has determined, however, that splitting AUs in this manner makes some of the beneficial use calls incorrect or inconsistent with the WBAGII method of assessment. For example, when some of the AUs were split, there was no longer a sampling or assessment site within the boundaries of the AU that would support the beneficial use determination. In order to remedy this situation, DEQ has removed the reservation boundaries from the map and the AUs are now kept intact even where they may cross Tribal reservation boundaries. DEQ has instead included a new Appendix that identifies those waters that may be within the federally recognized Tribal reservations. DEQ's actions with respect to the integrated report and such waters, including the identification of tribal

AUs	Waterbody Name	Commentor	Comments	Responses
				waters and the description of reservation boundaries, do not constitute a determination, waiver, admission, or statement on the part of the State of Idaho with respect to jurisdiction over such waters or the boundaries of any Tribal reservation. The status of the AUs within the federally-recognized reservation boundaries was maintained with respect to the 1998 303(d) unless there was an EPA approved TMDL. The tribe did not provide Tier 1 data or assessments to DEQ.
		3	Section 3 - Rivers not assessed: The Tribe would also like to know why Benewah is listed under Section 2 for supporting some uses and then is listed here. As stated above Benewah is currently receiving a TMDL.	See answer to above.
		3	Section 3 Rivers not assessed: Rock, Middle Fork Rock, North Fork Rock and Rose creeks are listed as not assessed. North Fork Rock Creek has been assessed by the Coeur d' Alene Tribe but more importantly these watersheds all lie within the Coeur d' Alene Reservation and flow into Washington State.	See answer to above.
		3	Section 5 Impaired Waters: Lakes - Why is Coeur d' Alene Lake not listed for metals? It is listed for sediment, nutrients and habitat alteration. With over a hundred years of mining in the Coeur d' Alene River and the lake being the receiving waterbody, one would believe that it should be listed for metals.	This has been rectified.
		3	Section 5 Impaired Waters: Rivers – The Coeur d' Alene Water Resource Program would also like to point out that Lake, Fighting and Benewah Creeks are also receiving TMDL's and they are not noted in this section as the were listed on the 1996 and 1998 303 (d) list.	EPA has not approved these TMDLs. At such time, these AUs could be moved to Section 4a with the understanding that the TMDLs were developed by EPA.

AUs	Waterbody Name	Commentor	Comments	Responses
		3	Interactive Map – On DEQ's web page there is an interactive map that lists streams that are in full support, not assessed, not supporting and wilderness. The Water Resource Program would like to point out that there are various stream segments within the Coeur d' Alene Reservation that are listed under the first three categories. Once again DEQ does not have the authority to make a call on which streams meet and do not meet supporting status within Reservations. An idea might be to make tribal waters a different color and specify that the Tribes are overseeing TMDL development of these waters.	Waters on the 1998 303(d) List and in the 2002/2003 Integrated Report may be partially or wholly within Indian reservations, on lands held by Tribal members subject to a restriction on alienation, and/or held by the United States in trust for Indian Tribes. The draft Integrated Report was accompanied by a map that showed the Tribal reservation boundaries recognized by the EPA and other federal agencies. AUs were edited to end and/or begin at the federally-recognized reservation boundaries, and some waters were accordingly identified as Tribal waters. DEQ has determined, however, that splitting AUs in this manner makes some of the beneficial use calls incorrect or inconsistent with the WBAGII method of assessment. For example, when some of the AUs were split, there was no longer a sampling or assessment site within the boundaries of the AU that would support the beneficial use determination. In order to remedy this situation, DEQ has removed the reservation boundaries from the map and the AUs are now kept intact even where they may cross Tribal reservation boundaries. DEQ has instead included a new Appendix that identifies those waters that may be within the federally recognized Tribal reservations. DEQ's actions with respect to the integrated report and such waters, including the identification of Tribal waters and the description of reservation boundaries, do not constitute a determination, waiver, admission, or statement on the part of the State of Idaho with respect to jurisdiction over such waters or the boundaries of any tribal reservation. The status of the AUs within the federally-recognized reservation boundaries was maintained with respect to the 1998 303(d) unless there was an EPA approved TMDL.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW001_06	Boise River: Indian Creek to Mouth	5	This AU should be removed from Section 3 because is has been assessed and two TMDLs have been completed and approved for this reach. This AU should be listed in Section 4a (TMDL Complete: Sediment and Bacteria TMDL; DEQ 2000); and temperature should be listed in Section 4c based on information included in the final lower Boise River TMDL (e.g. no temperature TMDL, diminimus anthropogenic heat; IDEQ, 2000) and subsequent changes to State Wate Quality Standards concerning natural background provision for temperature (IDAPA 58.01.02.200.09).	ID17050114SW001_06 will be listed in Section 4a for sediment and bacteria. DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in section 4c.
ID17050114SW001_06	Boise River: Indian Creek to Mouth	5	This AU should be listed in Section 4a (TMDL Complete) based on the approved LBR Sediment and Bacteria TMDLs (IDEQ 2000).	ID17050114SW001_06 will be moved to Section 4a.
ID17050114SW001_06	Boise River: Diversion Dam to Mouth	5	These AUs should be listed in Section 4c for Flow Alteration and Habitat modification based on the Final Approved Lower Boise River TMDL findings. The lower Boise River from Diversion Dam to the mouth is NOT listed for flow alteration or habitat despite listing of the reach immediately above for flow alteration (What occurs at diversion dam that causes flow modification to cease to be an impairment at Diversion Dam?) .	This AU still appears in Section 5 for Thermal Modification and continues to be listed for nutrients. No action was taken for flow and habitat.
ID17050114SW001_06	Boise River: Star to Notus	5	Same as above	See above.
ID17050114SW001_06	Boise River: Notus to Mouth	5	Same as above	See above.
ID17050114SW001_06 These comments should accompany ID17050114SW012_02, 03	Lower Boise River These comments should accompany	5	Listed based on biological data collected from Cottonwood Creek less than 2 miles below Aldape summit. USGS Flow records from Cottonwood Creek are collected about 3-4 miles below (downstream) from the biological monitoring site. USGS flow records show zero flow in Cottonwood Creek every year for a minimum of 1-2 months. The	DEQ will review the applicable flow and water quality data for Cottonwood Creek as part of the scheduled 2006 problem assessment. This assessment will include Crane Creek and Stuart Gulch. Unknown is a pollutant recognized by federal guidance. DEQ Policy is to list an AU for the

AUs	Waterbody Name	Commentor	Comments	Responses
	Stewart Gulch, Cottonwood and Crane Creeks: source to mouth		definition of an intermittent water in the State Water Quality Standards is zero flow for at least one week for most years for ungaged sites. The listing for Cottonwood, Crane, and Stuart Creeks does not identify a responsible pollutant. Federal Listing guidance to the states and IDEQs listing policies identify minimum requirements for waters on the section 5 list, including identification of a pollutant causing the impairment (p 4 of Principles and Policies for the 2002-2003 Report). The listing identifies the pollutant as unknown and therefore is not valid or consistent with minimum requirements for state or federal listing as a Category or Section 5 water. Additionally, both the Final WBAG II (Grafe et al. 2002) and Policy 9 of IDEQs listing document (IDEQ, 2003) indicate that aquatic community indexes cannot be applied to undesignated, intermittent surface waterbodies. Moreover, there are NO data, biological or otherwise, for Crane or Stuart creeks. Using IDEQs listing procedures and policies, it is apparent that all three intermittent foothills creeks should be listed as Section 3 waters.	pollutant of "Unknown" when our biological and habitat data indicate the aquatic life use is not supported. During the SBA/TMDL Process DEQ can the work with the WAG and BAG to identify the correct pollutant of concern. This is clearly stated in DEQ policy.
ID17050114SW001_06	Boise River: RM50 to Mouth	5	Nutrient listing should be removed to be consistent with Federal and State Listing Guidance and to avoid negative unanticipated impacts	Comment noted.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW005_06	Boise River: RM 50 to Indian Creek	5	This AU should be removed from Section 3 because it has been assessed and two TMDLs have been completed and approved for this reach. This AU should be listed in Section 4a (TMDL Complete; Sediment and Bacteria TMDL; DEQ 2000); and temperature should be listed in Section 4c based on information included in the final lower Boise River TMDL (e.g. no temperature TMDL, diminimus anthropogenic heat; IDEQ, 2000) and subsequent changes to State Wate Quality Standards concerning natural background provision for temperature (IDAPA 58.01.02.200.09).	ID17050114SW005_06 will be removed from Section 3 and listed in Section 4a for sediment and bacteria. DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW005_06	Boise River: RM50 to Indian Creek	5	This AU should be listed in Section 4a (TMDL Complete) based on the approved LBR Sediment and Bacteria TMDLs (IDEQ 2000).	ID17050114SW005_06 will be listed in Section 4a for sediment and bacteria.
ID17050114SW005_06	Boise River: RM50 to Mouth	5	Nutrient listing should be removed to be consistent with Federal and State Listing Guidance and to avoid negative unanticipated impacts	See footnote p. 89.
ID17050114SW005_06	Boise River: Diversion Dam to River Mile 50	5	These AUs should be listed in Section 5 for temperature based on EPA's additional of this segment to the 1998 303(d) list (EPA, 2001b). 1. Delist bacteria from the 2002-2003 303(d) list (Section 5) for the Snake River from River Mile 409 to 347; 2. Delist pH from the 2002-2003 303(d) list (Section 5) for the Snake River from river miles 409 to 347 and 335 to 285; 3. Adjust the priority/schedule for the SR-HC Mercury TMDL to 2006. EPA has already approved the change in Idaho's TMDL schedule for the Mercury TMDL to 2006; 4. Add pesticides as a pollutant (Section 5) for river miles 409 to 335 (the prior listing has pesticides listed only from river Mile 285 to 272.5, or Brownlee Dam to Oxbow Dam); and,	ID17050114SW005_06 will be added to Section 5 for temperature. The remaining comments do not apply to ID17050114SW005_06.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW011b_06	Boise River: Lucky Peak to Diversion Dam	5	This AU should be removed from Section 3 (Not assessed) because it is already listed in Section 4c (flow alteration).	ID17050114SW011a_06 will be removed from Section 3 and added to Section 4c.
ID17050114SW011a_06	Boise River: Diversion Dam to RM 50	5	This AU should be removed from Section 3, listed in Section 4a (TMDL Complete, Sediment TMDL; DEQ 2000) and listed in Section 4c (for temperature) based on information included in the final lower Boise River TMDL (e.g. no temperature TMDL, diminimus anthropogenic heat; IDEQ, 2000) and subsequent changes to State Wate Quality Standards concerning natural background provision for temperature (IDAPA 58.01.02.200.09).	ID17050114SW011a_06 will be listed in Section 4a for sediment. DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW011a_06	Boise River; Diversion Dam to RM 50	5	This AU should be listed in Section 4a (TMDL Complete) based on the approved LBR Sediment TMDL (IDEQ, 2000).	ID17050114SW011a_06 will be listed in Section 4a for sediment.
ID17050114SW011a_06	Boise River: Diversion Dam to RM 50	5	These AUs should be listed in Section 4c for Flow Alteration and Habitat modification based on the Final Approved Lower Boise River TMDL findings. The lower Boise River from Diversion Dam to the mouth is NOT listed for flow alteration or habitat despite listing of the reach immediately above for flow alteration (What occurs at diversion dam that causes flow modification to cease to be an impairment at Diversion Dam?).	This AU still appears in Section 5 for Thermal Modification. No action was taken for flow and habitat.
ID17050114SW011b_06	Boise River: Lucky Peak to Barber	5	Flow alteration, habitat modification (lack of cover, lack of gravels, channelization, embeddedness, and armored substrate)	Comment noted.
ID17050114SW011b_06	Boise River: Barber to Star	5	Same as above	Comment noted.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW011b_06	Lucky Peak to Diversion Dam	5	Incorrectly listed in 5 instead of 4c IDEQ has correctly identified this segment as being listed for flow alteration. Because flow alteration is not a pollutant but pollution, based on Policy 3 of IDEQs listing policies, the appropriate listing Section is 4c instead of Section 5 as contained in the Report.	ID17050114SW011a_06 will be listed in Section 4c.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW012_02	Cottonwood Creek	5	Listed based on biological data collected from Cottonwood Creek less than 2 miles below Aldape summit. USGS Flow records from Cottonwood Creek are collected about 3-4 miles below (downstream) from the biological monitoring site. USGS flow records show zero flow in Cottonwood Creek every year for a minimum of 1-2 months. The definition of an intermittent water in the State Water Quality Standards is zero flow for at least one week for most years for ungaged sites. The listing for Cottonwood, Crane, and Stuart Creeks does not identify a responsible pollutant. Federal Listing guidance to the states and IDEQs listing policies identify minimum requirements for waters on the section 5 list, including identification of a pollutant causing the impairment (p 4 of Principles and Policies for the 2002-2003 Report). The listing identifies the pollutant as unknown and therefore is not valid or consistent with minimum requirements for state or federal listing as a Category or Section 5 water. Additionally, both the Final WBAG II (Grafe et al. 2002) and Policy 9 of IDEQs listing document (IDEQ, 2003) indicate that aquatic community indexes cannot be applied to undesignated, intermittent surface waterbodies. Moreover, there are NO data, biological or otherwise, for Crane or Stuart creeks. Using IDEQs listing procedures and policies, it is apparent that all three intermittent foothills creeks should be listed as Section 3 waters.	DEQ will review the applicable flow and water quality data for Cottonwood Creek as part of the scheduled 2006 problem assessment. Unknown is a pollutant recognized by federal guidance. DEQ Policy is to list an AU for the pollutant of "Unknown" when our biological and habitat data indicate the aquatic life use is not supported. During the SBA/TMDL Process DEQ can the work with the WAG and BAG to identify the correct pollutant of concern. This is clearly stated in DEQ policy.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW012_02	Crane Creek	5	Listed based on biological data collected from Cottonwood Creek less than 2 miles below Aldape summit. USGS Flow records from Cottonwood Creek are collected about 3-4 miles below (downstream) from the biological monitoring site. USGS flow records show zero flow in Cottonwood Creek every year for a minimum of 1-2 months. The definition of an intermittent water in the State Water Quality Standards is zero flow for at least one week for most years for ungaged sites. The listing for Cottonwood, Crane, and Stuart Creeks does not identify a responsible pollutant. Federal Listing guidance to the states and IDEQs listing policies identify minimum requirements for waters on the section 5 list, including identification of a pollutant causing the impairment (p 4 of Principles and Policies for the 2002-2003 Report). The listing identifies the pollutant as unknown and therefore is not valid or consistent with minimum requirements for state or federal listing as a Category or Section 5 water. Additionally, both the Final WBAG II (Grafe et al. 2002) and Policy 9 of IDEQs listing document (IDEQ, 2003) indicate that aquatic community indexes cannot be applied to undesignated, intermittent surface waterbodies. Moreover, there are NO data, biological or otherwise, for Crane or Stuart creeks. Using IDEQs listing procedures and policies, it is apparent that all three intermittent foothills creeks should be listed as Section 3 waters.	DEQ will review the applicable flow and water quality data for Crane Creek as part of the scheduled 2006 problem assessment. Unknown is a pollutant recognized by federal guidance. DEQ Policy is to list an AU for the pollutant of "Unknown" when our biological and habitat data indicate the aquatic life use is not supported. During the SBA/TMDL Process DEQ can the work with the WAG and BAG to identify the correct pollutant of concern. This is clearly stated in DEQ policy.

AUs	Waterbody Name	Commentor	Comments	Responses
		5	The City recommends that DEQ make changes to the 2004 IDEQ Five Part listing policies based on the recently issued EPA 2004 303(d) listing guidance to states	DEQ is planning to adhere to the 2004 Integrated Report Guidance for the 2004 Integrated Report.
		5	The City recommends that The federal and state guidance for the 2002 303(d) lists identify segment priority and TMDL schedule as required elements. The draft Report does not include listing information for Section 5 (TMDLs required) information related to the individual AU for priority or schedule. Although, the Report does contain a narrative description of the priority and timing in general (i.e., associated with the settlement Agree.ment), we have not been able to find a specific list of priorities by segment or associated schedules in the Report.	There are no such schedules to be found outside of the Settlement Agreement (http://www.deq.state.id.us/water/tmdls/TMDLAgree.ment/SettlementAgree.ment.pdf). All other information pertaining to priority of TMDL development can be found in Section 13 (Prioritization for Subbasin Assessment and Total Maximum Daily Load Development) of the Principles and Policies document.
		5	The City recommends that that the final Report contain a priority ranking and TMDL scheduled data for each AU listed in Section 5.	Of all the parts of the Integrated Report, Section 5 is the most information rich. At this time DEQ will not add a priority ranking in Section 5, though it can be made available at www.deq.state.id.us.
		5	The City notes that reading of the plain language of policy 14 could result in the conclusion that TMDLs are required for all human caused impacts, including those related to habitat and flow alterations that adversely affect the beneficial use and those human caused effects must be diminimus. This interpretation of Policy 14 clearly would be in conflict with Policy 3. IDEQ should review these two policies at a minimum and see if there is a better way to characterize the discussion in Policy 14, so that there is no potential for interpretation of a conflict with Policy 3.	Clarifying language could be added to Section 14. However, it is clearly stated earlier in Section 3: "Flow and habitat alterations are considered pollution but not pollutants according to EPA (WQS §502(6), §502(19) CWA and Robert H. Wayland III, November 19, 2001 memo); hence, DEQ does not develop TMDLs in these two situations."

AUs	Waterbody Name	Commentor	Comments	Responses
		5	Given the significant strains on the states budgets, including water quality monitoring, it would seem appropriate for IDEQ to stick with the definition contained in the Section 5 minimum requirements section, use the unknown biological data results as indication of where follow-up monitoring is necessary prior to the next listing cycle, and not list waters in Section 5 for which pollutants are unknown. EPA's guidance to states is guidance not rule, so the state has that flexibility to make a call concerning unknown biological data that results in additional monitoring and confirmation of a pollutant prior to including waters in Section/Category 5	The state chooses to list the water in Section 5 when biological monitoring indicates the benefit is no longer supported. The state also chooses to list the pollutant as unknown unless the assessor made the impaired call based on a violation of WQS and, therefore, can name the pollutant as in the case of elevated bacteria or low dissolved oxygen.
		5	The City recommends that:IDEQ include in the 2002-2003 303(d)/305(b) Final List all lakes contained wholly within the wilderness/roadless areas as Section 1 waters; and,	DEQ will consider taking this action in 2004 after proposing the change in policy for public comment.
		5	The City recommends that: IDEQ revise the waterbody assessment units to conform to the wilderness/roadless area boundaries or to modify Policy 14 for the 2004 and future listings to provide for waters with the wilderness/roadless area boundaries to be included as Section 1 waters	This makes sense where other factors support the delineation of the AU at the wilderness roadless area boundary.

AUs	Waterbody Name	Commentor	Comments	Responses
		5	The following adjustments to the 303(d) list are warranted given the information contained in the Final SR-HC TMDL submitted to EPA on July 17, 2003: • Delist bacteria from the 2002-2003 303(d) list (Section 5) for the Snake River from River Mile 409 to 347; • Delist pH from the 2002-2003 303(d) list (Section 5) for the Snake River from river miles 409 to 347 and 335 to 285; • Adjust the priority/schedule for the SR-HC Mercury TMDL to 2006. EPA has already approved the change in Idaho's TMDL schedule for the Mercury TMDL to 2006; • Add pesticides as a pollutant (Section 5) for river miles 409 to 335 (the prior listing has pesticides listed only from river Mile 285 to 272.5, or Brownlee Dam to Oxbow Dam); and, Add Total Dissolved Gas as a pollutant to the 2002-2003 303(d) list (Section 5) for the Snake River from River Mile 285 (Brownlee Dam) to River Mile 188 (confluence with the Salmon).	DEQ has delisted the pollutants Bacteria and pH from river mile 409 to 347 in the AUs. DEQ has committed to do the Hg TMDL in 2006. Pesticides have not been added from river mile 439 to 335. The TMDL call for additional monitoring at this time. The segment was not listed due to the quality and age of the data found. The TMDL is already written but not yet approved. TDG has been added to the AUs that represent that reach and will be moved to Section 4a upon EPA approval of the TMDL.
ID17050114SW010_02	Fivemile Creek 1st & 2nd Order, Sec 2	6	The draft report divides Fivemile Creek into two distinct segments: 1st and 2nd Order (17050114SW010_02) and 3rd Order (17050114SW010_03). Recommended changes to the upper Fivemile Creek segment (1st and 2nd Order) are summarized below. Within the table, the following symbol is used: • "~~X~~" - Means this segment should be delisted for this pollutant	ID17050114SW010_02 will be listed in Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW010_02	Fivemile Creek 1st & 2nd Order, Sec 5	6	Report Section 2. Nutrients, DO, and sediment should be delisted from Section 5. Although DEQ has stated that "a large portion of [intermittent waers] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than those with limited or data (DEQ 2001, NMID and PID 2001). Thus, because this segment should be delisted, it should be placed in Section 2 (Waters Attaining Some Beneficial Uses).	ID17050114SW010_02 will be listed in Section 2.
ID17050114SW010_02	Fivemile Creek 1st & 2nd Order, Sec 5	6	~~Report Section 5~~. Nutrients, DO, and sediment should be removed from Section 5 because they are being delisted (DEQ 2001). Bacteria appears to have been erroneously added to Section 5 because it was not contained in the 1998 303(d) list and DEQ does not have any data to indicate impairment from bacteria in the upper intermittent segment (bacteria should be added only to the lower perennial segment [DEQ 2001]). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than those with limited or data. Thus, it should be placed in Section 2.	ID17050114SW010_02 will be listed in Section 2. Bacteria will be removed as a pollutant from this assessment unit.
		6	MTI supports delisting the upper segment of Fivemile Creek (Impaired Waters) and moving it to Section 2 (Waters Attaining Some Beneficial Uses) instead of Section 3.	Upper Fivemile Creek (ID17050114SW010_02) is listed for pathogens impairing secondary contact recreation. Fivemile Creek below the New York Canal is listed for bacteria.
ID17040212SK021_0L HUC 7040212	Murtaugh Lake	7	The Twin Falls Canal company has concerns on the listing of this waterbody, particularly since it is NOT a lake in the official "sense" of the word. As a privately owned storage facility, it is utilized for water delivery to water right stockholders of the Twin Falls Canal Company. Murtaugh Lake does not have an underlying stream channel.	This was corrected to reflect a freshwater reservoir instead of a freshwater lake. Murtaugh Lake is now off the impaired list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040213SK007L HUC 17040213	Salmon Falls Creek Reservoir	7	We concur with the listing, but would like to know how the listing came about, especially for nutrients and temperature.	This has been corrected to show that the AU has not been assessed and resides in Section 3 of the Integrated Report.
ID17040219SK003L HUC 17040219	Magic Reservoir	7	The Big Wood Canal Company has concerns on the listing of this waterbody, particularly since it is a privately owned storage reservoir.	This was corrected to reflect a freshwater reservoir instead of a freshwater lake. Murtaugh Lake is now off the impaired list.
ID17050102SW004_04	Big Jacks Creek	8	Sed. Why was this creek re-added to the list?	Section 4a.
ID17050102SW008_02	Sugar Valley Creek – Source to mouth	8	Sed.	Section 4a.
ID17050102SW008_03	Sugar Valley Creek – Source to mouth	8	Sed. This creek already has a TMDL on it for Nut, Bac, and Sed. This needs to be changed to reflect the listing by the Bruneau River TMDL.	Section 4a.
ID17050102SW014_04	Sheep Creek	8	Unknown. Why was this creek re-added to the list?	Section 5 (unknown).
ID17050102SW016_02	Marys Creek	8	Unknown. Why was this creek re-added to the list?	Tier I data = NFS. Section 5 (unknown).
ID17050102SW018_02	Pole Creek	8	Unknown. Why was this creek re-added to the list?	Tier I data = NFS. Section 5 (unknown).
ID17050102SW019_02	Cat Creek	8	Unknown. Why was this creek re-added to the list?	Tier I data = NFS. Section 5 (unknown).
ID17050102SW030_02	Big Flat Creek	8	Unknown. Why was this creek re-added to the list?	Tier I data = FS. Section 2.
ID17050102SW033_03	Deer Creek	8	Unknown. Why was this creek re-added to the list?	Tier I data = NFS. Section 5 (unknown).
ID17040220SK013_05	Camas Creek Subbasin – TMDL	8	Our BURP Coordinator states that none of these streams was assessed by the BURP crews for additions. The following segments have been moved out of the order shown in the integrated report for ease of reading:	This segment is a carry over from 1998.
ID17040209SK005_07 HUC 17040209	Snake River – Raft River to Lake Walcott –	8	DO, Pest, Sed.	A TMDL was developed for sediment. The other pollutants were delisted. DEQ is waiting on EPA to make a final determination on the delistings.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040209SK006_07 HUC 17040209	Snake River – Rock Creek to Raft River –	8	Unknown. These were assessed with Lake Walcott TMDL. These appear to have been added by someone doing the river assessment and not necessarily by the ADB process completed by our BURP Coordinator.	A TMDL was developed for sediment. The other pollutants were delisted. DEQ is waiting on EPA to make a final determination on the delistings.
ID17040209SK011_07 HUC 17040209	Snake River – American Falls Reservoir Dam to Rock Creek –	8	Do, Pest, Sed.	A TMDL was developed for sediment. The other pollutants were delisted. DEQ is waiting on EPA to make a final determination on the delistings.
ID17040212SK000_02 HUC 7040212	Yahoo Creek	8	No designation – Path, Sed. Please add a designation to Yahoo Creek. We suggest Source to Snake River. We concur with the pollutants listed.	This was corrected to reflect a designation from the source to the mouth.
ID17040212SK000_03a HUC 7040212	Yahoo Creek	8	No designation – Path, Sed. Please add a designation to Yahoo Creek. We suggest Source to Snake River. We concur with the pollutants listed.	This was corrected to reflect a designation from the source to the mouth.
ID17040212SK038_02 HUC 7040212	Catchall Creek – Source to mouth –	8	Unknown. One point of concern from our BURP Coordinator: Catchall Creek was not assessed because it is a dry creek. What assessment process was used on a dry creek to place it on the list?	The monitoring sites were assessed and the AU is impaired and appears in Section 5 of the Integrated Report. The East Fork of Clover Creek is part of this same AU and may have caused confusion surrounding this comment.
ID17040219SK004_05 HUC 17040219	Big Wood River – North Fork Big Wood River to Seamans Creek –	8	No pollutants. The Big Wood River TMDL was approved in 2002. A complete assessment of the Big Wood River from headwaters to the Snake River was conducted inclusive of monitoring. Under the SBA and TMDL, it was assessed that the stretch from the Headwaters to Trail Creek was meeting beneficial uses. This stretch includes segment from the North Fork Wood River to Trail Creek.	The designation was corrected so that Seamans Creek is not used as a designation. Seamans Creek no longer discharges to the Big Wood River. The AU ID17040219SK004_05 is the Big Wood River.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040219SK007_05 HUC 17040219	Big Wood River- Trail Creek to the Glendale Diversion. Seamans Creek	8	The next segment under the SBA/TMDL would normally discharge into this segment. It doesn't. It no longer discharges to the Big Wood River due to flow diversion and flow alteration. Therefore, using Seaman Creek as a segmentation point is not appropriate. We suggest that this new segment on the integrated report be removed since it complicates and falsely assumes segmentation where one doesn't exist.	Seamans Creek no longer discharges to the Big Wood River. This is explained fully in the TMDL.
ID17040220SK004_02 HUC 17040220	Little Beaver Creek – Headwaters to Beaver Creek –	8	Unknown.	This AU appears in Section 2 and is effectively a delisting of 1998 WQLSEG# 5301, 5209, & 5303.
ID17040220SK013_05 HUC 17040220	Camas Creek Subbasin – TMDL	8	Our BURP Coordinator states that none of these streams was assessed by the BURP crews for additions. The following segments have been moved out of the order shown in the integrated report for ease of reading:	This segment is a carry over from 1998 303(d) List. There was an overlap in with Water Quality Limited Segment 5304 which was listed by EPA in 1994.
ID17040220SK018_02 HUC 17040220	Cow Creek – Headwaters to Cow Creek Reservoir –	8	Unknown.	This segment is a carry over from 1998 303(d) List.
ID17040220SK024_02 HUC 17040220	Dairy Creek – Source to Mormon Reservoir	8	Bac, Nut, Iorg, Sed. The TMDL writer says that the data she has collected on Dairy Creek indicates that it meets water quality standards. However, the stream is only viable 3 months of any given year at the most. It's defined as an ephemeral stream. Our BURP Coordinator adds: This stream was not assessed by the BURP crew because it was dry. How did this stream and its pollutants get on the list?	This AU will not be in Section 5. The reason it was in Section 5 of the DRAFT IR was that the 1998 ArcView coverage contained a portion of the creek that under laid Mormon Reservoir, which is listed for bacteria, nutrients, inorganics, and sediment. This was an inaccurate "artifact" of GIS.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040221SK???_?? HUC 17040221	Little Wood River – West Canal (north) to West Canal (south) –	8	Bac, Nut, Iorg, Sed.	The designation consists of three assessment units: 003_05, 010_05, and 02_05. This unit is 003_??, which is different than the initial three. These are part of the 1998 303(d) listing.
ID17040221SK001_05 HUC 17040221	Richfield town to Big Wood River –	8	The third segment is really a redundancy because it lies from the East-West Canal Diversion to the re-emergence upstream of Silver Creek. The current designation does not account for the Little Wood River from Richfield town to the Big Wood River as previously listed in the 1998 listing.	This segment needs to stay on the 303(d) list as the large river assessment process found it impaired.
ID17040221SK002_05 HUC 17040221	Little Wood River – Carey Lake Outlet to Richfield	8	Nut, Sed.	Two 1998 listings now consist of three assessment units: 003_05, 010_05, and 02_05. Due to the way to previous listings overlay the 2002 Assessment Units the ID17040221SK002_05 has three pollutants: nutrients, sediment, and temperature.
ID17040221SK003_05 HUC 17040221	East Canal Diversion to Silver Creek –	8	Nut, Sed.	Listed in Section 5 for nutrients and sediment.
ID17040221SK007L_0L HUC 17040221	West Fork Fish Creek – Source to Fish Creek Reservoir –	8	Bac, Nut, Iorg, Sed. The TMDL writer asks, “How was this segment and pollutants added to the list?”	West Fork Fish Creek–Source to Fish Creek Reservoir: This is not classified currently in the GIS data. There is primary contact recreation impairment, which was carried forward from the 1998 303(d) list.
ID17040221SK009_02 HUC 17040221	West Fork Fish Creek – Source to Fish Creek Reservoir –	8	Bac, Nut, Iorg, Sed. The TMDL writer asks, “How was this segment and pollutants added to the list?”	Both designations are attached in ArcView to the Fish Creek Reservoir, and consequently the pollutants were carried through in the designations.
ID17040221SK009_03 HUC 17040221	West Fork Fish Creek – Source to Fish Creek Reservoir –	8	Bac, Nut, Iorg, Sed. The TMDL writer asks, “How was this segment and pollutants added to the list?”	Both designations are attached in ArcView to the Fish Creek Reservoir, and, consequently, the pollutants were carried through in the designations.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040221SK010_05 HUC 17040221	Little Wood River – Little Wood River Reservoir Dam to Carey –	8	Bac, Nut, Iorg, Sed.	This was added by EPA in 2000 from the 1998 List decision.
ID17040221SK014_04 HUC 17040221	Muldoon Creek – Source to mouth –	8	Unknown. The 1998 listing had the designation from South Fork Muldoon Creek to the Little Wood River for Unknown. The TMDL writer states that Muldoon Creek has been confused for Campbell Reservoir Creek and South Fork of Muldoon Creek. This needs to be changed to change the presumed listing. Our BURP Coordinator states that this needs to be pulled off the list because of the mistake in location. Why was the upper part (source to South Fork) added to the list when it is meeting beneficial uses?	This 1998 WQLSEG was #5288 and was added in 1998 by DEQ for an unknown pollutant. This appears to be an incorrect listing as no underlying data can be found to support this action. Because ID17040221SK014_04 overlays the previous listing, this AU will remain in Section 5 until the SBA/TMDL at the recommendation of the Regional Office. This AU was monitored in 2001 and the data will be available to assess for the 2004 Integrated Report.
ID17040221SK023_02 HUC 17040221	Silver Creek – Source to mouth –	8	Unknown. The TMDL writer asks, "Why was this listed?" This spring-fed system doesn't conform to the current WBAGII protocols for wadable streams. So why was it added to the list?	This AU was carried forward from the 1998 based on data from BURP site ID# 1996STWFA012. This is a BURP site that was placed on Loving Creek, which is a part of ID17040221SK023_02. This was a misapplication of state monitoring and assessment methods, yet EPA refuses to allow the state to delist these waters.
ID17040221SK023_03 HUC 17040221	Silver Creek – Source to mouth –	8	Unknown. The TMDL writer asks, "Why was this listed?" This spring-fed system doesn't conform to the current WBAGII protocols for wadable streams. So why was it added to the list?	This AU was carried forward from the 1998 based on data from BURP site ID#s 1996STWFB050, 1996STWFB051, and 1996STWFB052. These BURP sites were placed on Silver Creek, which is a part of Assessment Unit ID17040221SK023_03. This was a misapplication of state monitoring and assessment methods, yet EPA refuses to allow the state to delist these waters.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040202SK007_02	Porcupine Creek – source to mouth Porcupine Cr	9	Sediment “Site assessed with BURP and Upper Henrys SBA (DEQ, 1998) data” “Pre 1997 [sic] BURP data not used in assessment”	

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040202SK007_02	Porcupine Creek – source to mouth	9	a. The reported length of this segment (more than 16 miles) seems large, especially when compared to the segment of the Buffalo River that includes Chick Creek (less than 10 miles). Please review these measurements and explain how the lengths of these segments were determined. b. According to Table 1, BURP data collected by IDEQ on Porcupine Creek in 1997 were used to assess this segment as not supporting cold water aquatic life. Table 22 of the Upper Henry's Fork Subbasin Assessment lists the macroinvertebrate index (MBI) and habitat index (HI) scores that were calculated using the first version of the WBAG and the BURP data available at the time the assessment document was written. The MBI and HI scores indicated that the beneficial use of cold water biota (i.e., aquatic life) was supported at the site sampled on Little Robinson Creek. In fact the MBI score was relatively high (4.9), indicating a large and diverse macroinvertebrate community. This was consistent with the findings of Bressler and Gregory (2000), who found that the mean values for macroinvertebrate taxa richness, EPT (ephemeroptera, plecoptera, trichoptera) richness, and percentage EPT were higher in the Robinson Creek watershed in which Porcupine Creek is located than in any of the other nine watersheds in the Upper and Lower Henrys subbasins. Did IDEQ recalculate the MBI and HI scores using WBAG II and obtain a result that was not consistent with the Upper Henry's Fork Subbasin Assessment or the findings of Bressler and Gregory (2000)? If so, please explain.	The National Hydrography data set includes Rising Creek, four unnamed tributaries and Porcupine Creek in AU 07_02, which total 16.34 miles. Robinson Creek is not included in the Porcupine Creek assessment unit. According to the WBAG II, the average score for this AU was 1.33, which is less than a score of 2, the minimum threshold to be considered "full support." The Stream Fish Index score generated through WBAG II is based on BURP electrofishing information; snorkel data does not qualify as "Tier 1" or BURP compatible data to establish age classes for fish population

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040202SK018_03	Buffalo River – source to Elk Creek Chick Creek	9	Unknown "Based on BURP and Upper Henrys SBA (DEQ , 998) [sic] data" No assessment comments	
ID17040202SK018_03	Buffalo River – source to Elk Creek	9	a. This segment of the Buffalo River is not impaired and should be evaluated by IDEQ as a reference stream.	The Buffalo River AU will be spilt into two AUs: Buffalo River and Chick Creek. The Buffalo River AU (018_03) will be listed as "not assessed"; while the Chick Creek AU (018_03a) will be listed as impaired, as determined by information from the WBAG II and BURP. Data from 1996 was not incorporated into this assessment.
			b. According to Table 1, BURP data collected by IDEQ on Chick Creek in 1996 and 1997 were used to assess this segment of Buffalo River as not supporting cold water aquatic life.	The Stream Fish Index (SFI) score generated through WBAG II is based on BURP electrofishing information. The SFI for this AU was scored a 1, which indicates "impaired."
			c. This segment was assessed as not supporting the beneficial use of salmonid spawning. What information was used to make this assessment?	Data from 1996 was not incorporated into this assessment.
			d. d.According to Table 1, BURP data collected by IDEQ on Chick Creek in 1996 and 1997 were used to assess this segment of Buffalo River. But the assessment comments for Icehouse and Porcupine Creeks specifically state that BURP data collected prior to 1997 were not used to assess the beneficial uses of these streams. It is	

AUs	Waterbody Name	Commentor	Comments	Responses
			inconsistent of IDEQ to use data collected in 1996 to assess the beneficial uses of Chick Creek but to exclude data from 1996 from the assessments of Icehouse and Porcupine Creeks. e. The Buffalo River is an important spawning tributary of the Henry's Fork River for rainbow trout. In 1996, Buffalo Hydro, Inc., operators of the hydroelectric project on Buffalo River completed a fish ladder that would enhance upstream passage of spawning fish and retain young-of-the-year fish in the Buffalo River to enhance their overwintering survival and growth. f. Relative to many watersheds in eastern Idaho, the lakes, reservoirs and streams of the Henry's Fork basin have been extensively studied. Information regarding the hydrology of Buffalo River and Chick Creek, including characterization of recharge areas, flow paths, and residence times of their spring sources, has been published by Benjamin (2000). Information regarding the influence of stream habitat and land use on macroinvertebrate assemblages of the Henry's Fork watershed, including Buffalo River and Chick Creek, has been published by Bressler and Gregory (2000). Information regarding assemblages of salmonids throughout the Henry's Fork watershed, including Buffalo River and Chick Creek, has been published by Jaeger et al. (2000). All of these publications are contained in Aquatic Resources of the Henry's Fork Watershed, a special publication of the	

AUs	Waterbody Name	Commentor	Comments	Responses
			Intermountain Journal of Sciences, which was purchased by the Idaho Falls Regional Office of IDEQ in 2002.	
ID17040202SK044_02	Icehouse Creek – source to Island Park Reservoir Icehouse Cr	9	Sediment "Based on BURP and Upper Henrys SBA (DEQ, 1998)" "Older BURP data (pre-1997) not used in assessment"	
ID17040202SK044_02	Icehouse Creek – source to Island Park Reservoir	9	a. The Use Report accessed through the searchable database does not provide a map of this segment. b. Four macroinvertebrate index (MBI) scores, three calculated using IDEQ BURP data and one calculated using data obtained from the Henry's Fork Foundation, are reported for Icehouse Creek in Table 17 of the Upper Henry's Fork Subbasin Assessment. But according to IDEQ's Use Report, the only BURP sample used to assess beneficial uses for the 2002 integrated report was collected in 1997. The samples collected in 1996 on Icehouse Creek one mile above and one mile below the Yale-Kilgore Road produced relatively high MBI scores, indicating full support of cold water biota (i.e., aquatic life use – cold). The sample collected in 1997 approximately five miles below the Yale-Kilgore Road produced an MBI of 1.7, indicating that the stream at this location did not support cold water biota. However, using data collected by Gregory (1997), and MBI of 3.8 was calculated at a location six miles below Yale-Kilgore Road. The discussion of these	The AU must remain as impaired, based on the scores from WBAGII. The sources will be further identified in future Subbasin Assessment documentation. Regardless of the source (land use or flow alteration), the AU remains impaired.

AUs	Waterbody Name	Commentor	Comments	Responses
			results, beginning on page 89 of the Upper Henry's Fork Subbasin Assessment, is as follows: The low MBI and HI scores which were detected by DEQ in 1997 on lower Icehouse Creek, contrasted with the high macroinvertebrate diversity reported by Gregory (1997), indicate that further assessment of this stream is warranted. Both DEQ samplers and Gregory (1997) reported fine silt substrate and heavy livestock grazing on land surrounding the stream. Gregory (1997) did not assess the stream above this lower reach because "irrigation diversions…make it impossible for adfluvial fish from Island Park Reservoir to gain access…" c. In other words, the 1997 BURP site was in a location where the stream was so heavily diverted for irrigation that according to Gregory (1997), stream flow did not reach Island Park Reservoir. Even though qualitative reports indicate that sedimentation may have been occurring because of grazing, impairment could just as likely have been caused by flow alteration, which is not a pollutant for which a TMDL must be prepared. As stated in the assessment document, further assessment is warranted, but listing the stream as impaired for sediment is premature and unsubstantiated. Instead of listing Icehouse Creek, IDEQ should make it a priority to	The Stream Fish Index (SFI) score generated through WBAG II is based on BURP electrofishing information. The SFI for this AU was scored a 1, which indicates "impaired."

AUs	Waterbody Name	Commentor	Comments	Responses
			determine i) where stream flow is diverted, ii) when stream flow is diverted, and iii) whether any stream flow discharges directly to Island Park Reservoir. If it can be determined that Icehouse Creek discharges to Island Park Reservoir, additional BURP samples should be collected in the vicinity of site sampled in 1997. d. This segment was assessed as not supporting the beneficial use of salmonid spawning. What information was used to make this assessment? If fisheries survey data were used, the data should be cited in the Use Report.	
ID17040202SK045_03	Sheridan Creek - Kilgore Road…to mouth Sheridan Cr Sheridan Cr	9	Sediment No segment comments "Segment and all attributes carried forward from 1998 list"	
ID17040202SK045_03	Sheridan Creek - Kilgore Road … to mouth	9	a. The map of Sheridan Creek shown in the Use Report accessed through the searchable database is not accurate. Sheridan Creek is not a tributary of Willow Creek. Willow Creek is a tributary of Sheridan Creek, and Sheridan Creek is a tributary of Island Park reservoir. b. According to Table 1, this stream segment was carried forward from the 1998 § 303(d) list. This is consistent with the recommendation made in the Upper Henry's Fork Subbasin Assessment.	

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040202SK046_04	Willow Creek – source to mouth Sheridan Cr	9	Sediment No segment comments "Segment and all attributes carried forward from 1998 list"	
ID17040202SK046_04	Willow Creek – source to mouth	9	a. The map of Willow Creek shown in the Use Report accessed through the searchable database is not accurate. Sheridan Creek is not a tributary of Willow Creek. Willow Creek is a tributary of Sheridan Creek, and Sheridan Creek is a tributary of Island Park reservoir. b. According to Table 1, this stream segment was carried forward from the 1998 § 303(d) list. However, this segment is not shown on the 1998 § 303(d) and should be removed from the 2002 integrated report.	This AU will be removed from the Integrated Report and will be labeled as "not assessed."
ID17040203SK007_02	Squirrel Creek - Idaho/Wyoming border to mouth Granite Creek Dry Creek Dry Creek	9	Unknown Pathogens "Assessment was performed using BURP data only." "Dry Creek exceeded 5 sample e-coli threshold."	See below.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040203SK007_02	Squirrel Creek - Idaho/Wyoming border to mouth	9	a. The stream segment identification number is not consistent with the identification numbers of water body units listed in IDAPA 58.01.02.150.05. The data used by IDEQ to list this segment pertain to water body unit US-5, Conant Creek - Idaho/Wyoming border to Squirrel Creek, not to water body unit US-7, Squirrel Creek - Idaho/Wyoming border to mouth. According to IDEQ, this segment was listed as impaired based on BURP data collected from Granite Creek (1997SIDFL060) and Dry Creek (1997SIDFL062 and 1997SIDFZ128). However, Granite Creek and Dry Creek are tributaries of Conant Creek upstream of the point at which Squirrel Creek drains into Conant Creek. IDEQ incorrectly identified Conant Creek as a second-order tributary of Squirrel Creek when in fact Squirrel Creek is a second-order tributary of Conant Creek (refer to the Ashton and Rexburg 1:100,000-scale Surface Management Status maps published by the Bureau of Land Management). The impaired segment should be identified as "17040203SK005_02 Conant Creek – Squirrel Creek to mouth," in order to be consistent with IDAPA 58.01.02.150.05. b. When were the five samples collected from Granite Creek for analyses of E. coli? What actions were taken by IDEQ in response to the violation of water quality standards on Granite Creek, as indicated by the 5-sample exceedances of the numeric criteria for E. coli. c. Did IDEQ identify the source of E. coli in the Granite Creek watershed?	The Squirrel Creek AU does not contain Squirrel Creek. This is an artifact of the National Hydrography data set. Squirrel Creek is found in the Falls River AU (SK008_03). Both Dry Creek and Granite Creek are identified as tributaries to Conant Creek. Squirrel Creek enters Conant Creek outside of either of the AUs in question, forming the Conant Creek 04 AU (SK006_04). Bacteria violations for the AU were collected 7/13/99, 8/11/99, 8/16/99, 8/23/99,8/26/99, 9/1/99. Listing the AU on the 2002 Integrated Report as impaired by pathogens. No. This action will be taken when this AU is slated for Subbasin Assessment and TMDL development at a future date, likely late in 2008.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040203SK007_03	Squirrel Creek - Idaho/Wyoming border to mouth Conant Creek	9	Unknown "Assessment was performed using BURP data only." "Results of e-coli below threshold."	
ID17040203SK007_03	Squirrel Creek - Idaho/Wyoming border to mouth	9	a. The Use Report accessed through the searchable database does not provide a map of this segment. b. According to IDEQ, this segment was listed as impaired based on BURP data collected from four sites on Conant Creek (1997SIDFL061, 1997SIDFL068, 1996SIDFZ127, and 1993SIDFA025). These sites and the BURP sites on Granite and Dry Creeks (see previous comment) should been used to assess water body unit US-6, Conant Creek - Idaho/Wyoming border to Squirrel Creek, and/or US-5, Conant Creek – Squirrel Creek to mouth, not to assess water body unit US-7, Squirrel Creek - Idaho/Wyoming border to mouth.	BURP sites 1997SIDFL061 and 1997SIDFL068 are the sources of monitoring information used to assess this unit. SK007_03 only assess mainstem Conant Creek from its source to the confluence with Squirrel Creek.

AUs	Waterbody Name	Commentor	Comments	Responses
		9	Integration of the § 303(d) list and § 303(b) report improves and streamlines the reporting process under the Clean Water Act, and results in a document that provides much more specific and relevant information. Although the format is a departure from past § 303(d) lists, and therefore has initially confused some other reviewers with whom I have discussed the report, I believe the initial confusion will give way to increased understanding on the part of the public and representatives of local, state, and federal agencies. I believe that users outside of IDEQ will eventually find Sections 2-4 of the integrated report especially useful.	Agree. This is likely a national trend.
		9	The Department made excellent use of the Internet in order to inform the public about the integrated report. The searchable database is especially useful and I'm confident it will become even more so as IDEQ and the University of Idaho refine it.	Agree. DEQ has extensively revamped this tool for the 2004 Integrated Report.
		9	The database is easy to navigate and logical in its design. The links between maps showing basins and subbasins are excellent.	Agree.
		9	The summary tables generated from a subbasin search are well-organized and provide essential information in a concise format. The links to *Use Reports* for individual water bodies is an excellent feature. Please reduce the sizes of the tables and reformat the Internet page so the maximum amount of information can be printed on a single piece of paper.	There is an option at the bottom of each report for a printable version. Each report is two pages in length.

AUs	Waterbody Name	Commentor	Comments	Responses
		9	Make the *Use Reports* more concise and compact (i.e., reduce line spacing and the amount of white space), and eliminate the links at the bottom of the report. The current format discourages printing because so much paper is required. The maps are essential components of the report and are very useful.	The new tool adds more information to each report. Provisions for printing will need to be carefully worked through.
		9	Include more detailed BURP and assessment information such as indices calculated from macroinvertebrate, fish, habitat, and river data; analytical results of *E.coli* tests; analytical results for pollutants that exceed numeric criteria; complete references for documents cited; and locations of BURP sites on the maps. I realize it will be time-consuming to add this information to the database, but the investment of resources will be extremely beneficial in terms of providing information to the public.	These suggestions have been implemented with the exception of bacteria. Other individual pollutants will be displayed so long as the assessor enters the information.
		9	Provide maps that show the entire subbasin and all assessment units. It would great if the maps could link assessment units to *Use Reports.*	At a scale where an entire subbasin can viewed, all the AUs blur into meaningless background color. Even the waterbody ID maps that are printed on large format printers would be insufficient to fill this request.

AUs	Waterbody Name	Commentor	Comments	Responses
		9	The integrated report is given a variety of different titles. On IDEQ's Internet site it is the *Idaho's 2002-03 Integrated 303(d)/305(b) Report* and *2002/2003 Draft Integrated 303(d)/305(b) Report;* in the title of the document describing principles and policies, it's the *2002/2003 Draft Integrated (303(d)/305(b)) Report;* and in the first sentence of the principles and policies document, it's simply the *2002 Integrated Report*. Although these differences may seem minor to the authors of the web site and the documents, these discrepancies are confusing to the public and entirely unnecessary. Is the report actually the 2002 and 2003 report, or is it simply the 2002 report?	This is the 2002 Integrated Report.
		9	The integrated report, as viewed in PDF format on IDEQ's web page is actually a continuation of the document entitled, *Principles and Policies for the 2002/2003 Draft Integrated 303(d)/305(b) Report.* The document should be reorganized so that the description of principles and policies, and Sections 1 through 5 of the report, are organized as subsections of a single document. The report could be titled, *The Idaho 2002 Integrated 303(d) and 305(b) Report,* and the section describing principles and policies could then be titled, *Principles and Policies for Compiling the 2002 Integrated 303(d) and 305(b) Report.* It is appropriate that principles and policies used to compile the report preface the report.	Both options are available on the Web site. They appear in two ways (One complete document and each portion) in order to optimize the individual files for download based on the public's preference for downloading the document.

AUs	Waterbody Name	Commentor	Comments	Responses
		9	I was unable to find a definition of the term "assessment unit," or an explanation of how assessment units correspond to waterbody units listed in IDAPA 58.01.02 or the waterbody identification system described in the WBAG II document. When I asked for an explanation from IDEQ personnel, I received quick and helpful responses, though I did not receive any indication that IDEQ personnel recognized or acknowledged that the lack of definitions was a problem. This is an example of why it is important that this document be reviewed and edited by a technical editor, and not the original author. For preparers of the integrated report, "assessment unit" and "waterbody identification system" are virtually synonymous, but the public has no way of knowing this. Terminology must be defined and it must be consistent among all documents produced by IDEQ in order for IDEQ to clearly and unambiguously communicate with the public.	Page 10 of the Principles and Policies Document states that "Assessment Units (AUs) are groups of similar streams that have similar land use practices, ownership, or land management. AUs now define all the waters of the State of Idaho. These units and the methodology used to describe them can be found in the WBAG II." An example AU is ID17050123SW002_02a. The AU code breaks down to as follows: ID-17050123-SW-002_02. "ID" stands for Idaho; "17050123" is the HUC (NF Payette); "SW" stands for Southwest Basin; "002" is the three-digit number that corresponds to IDAPA 58.01.02; "_02" means second order; and "a" means the second order has been split into more than one unit. Occasionally, other designators are used: "L" is for "Lake" and "T" is for "Tribe." Successive letters beyond "a" indicate more subdivisions of the second order.
		9	Maps showing assessment units and the waterbody identification system should be incorporated into the integrated report, or at the very least, be made available to the public via IDEQ's Internet web site. In the interim, the web site should inform the public that these maps are available at regional offices, and the regional offices should provide copies of the maps to the public free of charge.	This is and was available to the public during the Comment period. An inspection of the legend described the colors represented different AUs.

AUs	Waterbody Name	Commentor	Comments	Responses
		9	IDEQ doesn't seriously consider the comments	Disagree. Note the 173 pages of responses. Based on input from the public through the comment process the following changes occurred between draft and final list: 1) 5,600 additional miles of impaired streams were identified. 2) 1,900 additional miles were found to meet WQS and support Beneficial uses 3) The number of miles of EPA approved TMDLs was correct to 12,000, down from 13,000. 4) 72 Assessment Units were added for temperature impairment. 5) An additional 3,300 miles of stream were found to be impaired by flow and/or habitat alteration.
		9	IDEQ has listed numerous intermittent and spring-fed streams, contradicting its own principles and policies, then expects the public and other agencies to identify such errors	Due to the nature of the NHD, some of these types of waterbodies are incorporated into the second order assessment units. Other listing of intermittent waters and spring-fed streams are due to the 1994 court ordered listings. At that time, EPA did not give apparent consideration to waterbody type. DEQ specifically does not place monitoring sites on intermittent streams, spring-fed streams, wetlands, or canals. When a TMDL is done, these other types of waterbody are considered in load allocations.
		9	IDEQ uses one set of standards to list a waterbody as impaired and another, much more rigorous set of standards to delist water bodies. These perceptions were reported by professionals working at State and Federal agencies, and are the primary reason the Water Quality Subcommittee did not meet to prepare comments for submission to IDEQ.	This is due to the nature of the 303(d) list. No water column data has to be compared to a WQS, and the data does not have to show that beneficial use is impaired in order to list a waterbody according to EPA guidance. Although not desirable, some waters have been listed on very little information. This very fact resulted in EPA listing wilderness waters, wild and scenic rivers, and reference streams in the 1994 action. DEQ has worked extremely hard to monitor the waters on the list and to retain those that are truly impaired while working to de list those that are not.

AUs	Waterbody Name	Commentor	Comments	Responses
		10	"…we respectfully submit that the Report represents flawed outcomes in that it uses a flawed document (Waterbody Assessment Guidance). We point to the comments received from the forest products sector during the comment period on WBAG prior to its finalization. We understand that DEQ is not accepting comments on WBAG again at this time."	Responses to your previous comments can be found in the Response to WBAG2 comments document (http://www.deq.state.id.us/water/surface_water/wbag/WBAG2001_Response_Sec2-Sec3.pdf). Those responses are hereby incorporated in answer to your request.
		10	Nor is DEQ accepting comment at this time on the use of the EPA Integrated Report format at this time or sections1 through 4 of the Report. It appears that DEQ is accepting comments only on whether we Agree. or disAgree. with the listed streams or segments in Section 5.	DEQ considered all comments made. DEQ was seeking comments on assessment results and on the Principles and Policies Document.
		10	Unfortunately, for forestland owners in Idaho, the DEQ maps are not sufficiently precise to match the landowner maps as to segments and location. This presents a huge difficulty in commenting on the Report.	DEQ recognizes this as a shortcoming and has produced a new tool to facilitate public comment that displays10-meter resolution satellite imagery. This should help with future comments.
		10	We reiterate our great concern that all streams, stream segments and water bodies must be realistically assessed prior to inclusion on the Impaired Waters list. Once on that list, an expensive and time consuming process is required to produce a Total Maximum Daily Load (TMDL) and implement it.	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
		11	Flow alteration (Qalt) and habitat alteration (Halt) are not pollutants. Nevertheless, Section 4(c) of the Report identifies water bodies "Impaired by Flow or Habitat Alteration". EPA and DEQ have no jurisdiction over water quantity, flows or habitat. In fact, DEQ is specifically prohibited from altering water rights for water quality purposes. Idaho Code Sec. 39-104. As a result, all references to Qalt and Halt should be removed from the Report, along with any waterbody listings that are based upon these references. We are encouraged that none of the listings in Section 5 ("Impaired Waters") appear to include Qalt or Halt, but this is not true for Section 4(c). In any event, TMDLs cannot, and should not, be required for flow or habitat alteration.	Section 4c was specifically created so that AUs impaired for flow and habitat alteration would no longer reside on the 303(d) list and, therefore, would not require a TMDL. DEQ has not added flow alteration of habitat alteration as pollutants on any AU in Idaho. All segments in this section are carried over from the 1994 303(d) list. Section 4c will remain in the Integrated Report as per EPA guidance.
		11	Irrigation facilities are not navigable waters and it would be absurd, and a tremendous waste of DEQ resources, in the face of the *SWANCC* decision, to conclude that they are waters that should be assessed for purposes of the Report. In addition, the cost to develop and meet TMDLs or, alternatively, to develop acceptable Use Attainability Analyses (UAAs), for the thousands of irrigation facilities in Idaho, would be enormous. Accordingly, water bodies identified in the Report that are irrigation conveyance facilities should be removed from all sections of the Report.	In the Integrated Report, no waterbodies are being assessed that are not identified in the WQS, and some of the man-made water bodies are identified as designated uses in our WQS. Further, SWANCC does not stand for the proposition that all irrigation conveyances are not waters of the Unites States for purposes of the Clean Water Act (CWA). It should also be noted that the WQS treats strictly man-made conveyances differently than natural channels that have been straightened and turned into a vehicle for irrigation.

AUs	Waterbody Name	Commentor	Comments	Responses
		11	Beneficial Use Designations and Water Quality Standards. We encourage DEQ, whenever possible, to reassess the beneficial uses that have been designated for water bodies in Idaho. This is critical to the formulation of any accurate 303(d) list. When beneficial use designations, and corresponding water quality standards, are incorrect, valuable time and resources are wasted on 303(d) designations, TMDL development and implementation, and UAAs.	DEQ agrees with this comment. Prior to any assessment being made, the existing and designated beneficial uses are reviewed. While no designated use can be ignored for assessment purposes, neither can existing uses, which must also be assessed. If existing uses are found to be not supporting, then a TMDL must be developed. The critical step to be completed, according to the CWA, is that all existing uses must be designated.
		12	We do not understand the reason for applying the same water quality data to all the sub reaches of a reach, when no data exists on those sub reaches. It seems that this strategy might unnecessarily create 303 (d) listings on sub reaches that, if data were available, would otherwise be listed.	AUs (a reach) are adjacent groups of similar streams that have similar land use practices, ownership, or land management. Additional factors can be similar hydrogrphy, size, or aspect. Pragmatically, AUs are reporting and monitoring units that allow the State of Idaho to collect data representative of a larger area. In terms of TMDLs, the load allocations have to take into account all the contributing waters to correctly determine what reductions are needed to restore the beneficial use in the receiving water.
		12	It is our understanding that the purpose of releasing this document for public comment is, in part, a desire to find and use additional information if it exists. Our agency does not have additional technical information	DEQ will begin a call for data in late 2003 or early 2004 in preparation for the 2004 Integrated Report.
		13	The draft Integrated Report does not accurately report the findings of total maximum daily loads (TMDLS).	This is true. The problem that occurred was that any AU that had a completed TMDL showed up in Section 4a as having all pollutants with approved TMDLs. This systematic error has been rectified so that the correct AU-Pollutant combinations are displayed.

AUs	Waterbody Name	Commentor	Comments	Responses
		13	IDEQ & Oregon DEQ proposed a temperature TMDL be performed for the Payette, Boise, and Weiser River tributaries. These waters are not listed for thermal modification (temperature) in the draft Integrated report.	DEQ is not proposing temperature listings for all the tributaries, though a load allocation may be written for these water bodies to meet the downstream TMDL. DEQ does not support allowing any increase in temperatures in the Snake River. DEQ did not do a temperature TMDL on the Payette River because water from Black Canyon Reservoir exceeds that standard. EPA did not act on DEQ's course of action. DEQ did not do a TMDL on the Lower Boise River based on analysis that showed the temperatures (28 degrees C) were not due to anthropogenic impacts. EPA did not act on DEQ's course of action. Rather EPA listed Barber to Star for violations of the spawning criteria in 2000. DEQ did a TMDL on the Weiser River for Galloway to the Snake River. We proposed listing of the river from Little Weiser to Galloway.
		13	The Snake River assessment unit below C.J. Strike Reservoir is now listed as affected by thermal modifications, which it previously was not, while it was not a recommendation of the Mid Snake River/Succor Creek Subbasin Assessment and Total Maximum Daily Load	Swan Falls to Boise river is now two AUs: ID17050103SW001_07 (approximately the last seven miles to the Oregon border); and ID17050103SW006_07 (the 80 mile long unit below CJ Strike) to comply with the WBID system in the WQS (WBIDs are the direct link to designated beneficial uses).

AUs	Waterbody Name	Commentor	Comments	Responses
		13	The draft Integrated Report should not list or delist pollutants without supporting technical information or Basin Advisory Groups and Watershed Advisory Group concurrence.	Pollutants can be added based on WQS violations or newer data. Pollutants can only be removed through TMDLs or "good cause." Good cause includes, but is not limited to, more recent and accurate data, more sophisticated water quality modeling, flaws in the original analysis that led to the waterbody being listed, or changes in conditions (e.g., new control equipment or elimination of discharges), hereafter known as "good cause." Changes in the list are subject to public participation and public comment process. During which time, presentations of this information were made to all six Basin Advisory Groups.
		13	The 1998 § 303 (d) list identifies the Snake River from river miles 614.7 (Shoshone Falls) to 591.4 (Deep Creek) as impaired by temperature. The draft Integrated Report appears not to list these similar waters as affected by thermal modifications	This omission has been corrected.
		13	Idaho Power Company (IPC) concurs with IDEQ's decision not to list the Snake River below Hells Canyon Dam for thermal modification in the draft Integrated Report. The EPA added the Snake River below Hells Canyon Dam to the 1998 § 303 (d) list. IPC has requested the data EPA used to add the Snake River below Hells Canyon Dam to the 1998 § 303(d) list. These data were analyzed with Idaho's assessment methodology. Data indicate the frequency of exceedance of the temperature criteria is less than ten percent during the salmonid spawning period. Further, IDEQ has no evidence of thermal impairment of fall chinook as stated in their comments to the *Draft New License Application: Hells Canyon Hydroelectric Complex*.	Temperature has been added to the AU. The State of Oregon does not recognize the 10% exceedence policy set forth by the EPA.

AUs	Waterbody Name	Commentor	Comments	Responses
		14	The Snake River downstream of C.J. Strike should be identified as "impaired" for additional pollutants above and beyond those identified by DEQ. Excerpts of referenced documents are attached hereto. In 1993, discharges fell below the 7-day mean minimum level of 4.7 mg/l for four days, while the 30-day mean of 6 mg/l was not met for 24 days. In 1994, the 7-day mean minimum level of 4.7 mg/l was not met for four days; however the 30-day mean of 6 mg/l was always maintained.	The Idaho Power data you reference in the FERC license application is greater than 5-years old and is therefore Tier 2 data. Tier 2 data is appropriate for listing and de-listing decisions only in the context of an SBA or TMDL. Further the reference to the violation is not clear enough to list on its own merit. The reference indicates the number of violations per year. These could be acted upon if a reference to timeframe was given. For example, between July 10 and July 20, 1993, discharges fell below the 7-day mean minimum level of 4.7 mg/l for four days rather than "In 1993…." A nutrient TMDL for CJ Strike is being developed and should contribute to higher DO levels in the discharge.
		14	The NMFS supports the State of Idaho and EPA's water quality standard of 110 percent. We note that TDG levels downstream of C.J. Strike at North Bridge are consistently higher than 110 percent when spill flows exceeded approximately 3,500 cfs. Similarly, the water quality standard is exceeded at the monitoring location at Grand View when spill flows are somewhere between 6,500 cfs and 10,900 cfs. We request that the Snake River downstream of C.J. Strike be listed as "impaired" for dissolved oxygen and total dissolved gas, and that DEQ prepare TMDLs for those pollutants.	Concur. DEQ is listing TDG as a pollutant.

AUs	Waterbody Name	Commentor	Comments	Responses
		15	The report continues to list mainstem Boise River as impaired for nutrients. However, the DEQ's analysis of the Boise River shows that the mainstem of Boise River is, in fact, not itself impaired for nutrients. The only reason that nutrient-load reductions are being sought at the mouth of the Boise is because of the impairment in Hells Canyon/Brownlee Reservoir. The very least, the Boise River should be delisted for nutrients, as the list gives rise to the false impression that the Boise River is impaired for nutrients.	AU ID17050114SW001_06 remains listed for Nutrients. This unit is the lower 24 miles terminating at the Snake River. The upper two AUs are only listed from sediment.
		15	The 303d list has a significant number of water segments listed for unknown pollutants, including, for example, Mores Creek a tributary to the Boise River. The DEQ's methodology does not explain how a segment is listed for an unknown pollutant when there are a number of other segments that are on a separate list for waters that have not yet been adequately monitored. The rivers listed solely as impaired for unknown pollutants, such as Mores Creek, ought to be moved to the listing in Section 3, if the reason the stream segment is listed as impaired is because there is inadequate assessment done to determine the cause of the impairment. If the stream segment is listed as impaired for a unknown pollutant is truly because of flow or habitat alteration, then the stream should be delisted. The DEQ should state whether "unknown" pollutants have been analyzed to determine if other non-water quality factors are the cause of the alleged impairment.	When DEQ lists an AU with the pollutant as "Unknown", this indicates that adequate monitoring has been completed and the WBAG2 process has found that at least one beneficial use is not supported. In most cases, it is the aquatic life beneficial use. The AUs in Section 3 are defined as not monitored or no data available as opposed to inadequately monitored as the comment indicates. WBAG2 is not identified to ascertain the pollutant or the source. These steps are taken in concert with the development of a TMDL in conjunction with a WAG. DEQ is unable to list impaired waters in Section 3. Impaired waters belong in Section 4 or 5. The EPA also listed Mores Creek for temperature in 2000.

AUs	Waterbody Name	Commentor	Comments	Responses
		15	Section 5 of the list of impaired waters lists the Boise River from Lucky Peak to Diversion Dam as an impaired waterbody segment, even though the listing does not reference any pollutant. That segment of the Boise River, and any other section where any other river segment which does not have specific pollutant as the cause of the alleged impairment, should not be listed.	This was a duplicate record. No pollutant was displayed because it is impaired for Flow Alteration and appears as ID17050114SW011b_06, which is the 2.31 mile section of the Boise River from Lucky Peak to Diversion Dam is listed in Section 4c for Flow Alteration.
		15	It is imperative that the Department establish a process for setting appropriate beneficial uses for intermittent streams and for monitoring whether or not those beneficial uses should be established. The Department should consider creating a separate beneficial use for intermittent streams.	We agree that guidance is needed in these areas. Due to limited resources, DEQ has prioritized the development of different guidance documents. Since most of Idaho surface water would be classified as perennial streams, DEQ sought to develop sound assessment methods for these water bodies first. As resources and administration priorities allow, DEQ will develop additional guidance to address other waterbody types.
		15	The Department indicates that over 200 river segments were added for temperature impairment, even though many of these are entirely the result of natural background. If that is the case, and natural events cause water temperature criteria to exceed water quality standards, then the Department should reevaluate the designated beneficial use, i.e., cold water or warm water biota established for those segments, and the Department should reevaluate the appropriate temperature numeric criteria.	We agree that water temperatures exceeding established temperature criteria in areas that are without human sources of heat or can be said to be natural provide *prima fascia* evidence that criteria are not the most appropriate and that either the criteria or use may need to be changed to something more appropriate. That said, it must be recognized that water temperatures vary on a continuum, while standards provide set categories. At present only three set categories exist: cold, seasonal cold, or warm. Therefore, the established criterion will rarely, if ever, be exact or perfect. It must also be recognized that the water quality standards allow for natural exceedance of set criteria, and, as such, is not a violation of the water quality standard. While the rules allow such a possibility, it takes some effort to demonstrate or document natural

AUs	Waterbody Name	Commentor	Comments	Responses
				exceedance to be the case. Typically, DEQ does not have the time or resources to make such a determination in advance of 303(d) listing, so the default is to list. We welcome any help you can offer in showing exceedance of criteria for a particular waterbody is natural. DEQ did participate in a regional effort to reevaluate appropriate numeric temperature criteria. This effort culminated in April 2003 with the publication of "EPA Region 10 Guidance For Pacific Northwest State and Tribal Temperature Water Quality Standards." Unfortunately, although Idaho argued strenuously for higher numeric criteria, the guidance, in deference to endangered salmon and steelhead, has recommended even colder criteria than Idaho presently has in its rules. Given this, it seems that our best bet for better aligning temperature criteria with environmental reality lies in better use designations. In order to change a use, the burden is on us to show that the existing use is unattainable and that an alternate use is more appropriate. To ultimately succeed in making the change, we must convince EPA, and then NOAA Fisheries and Fish and Wildlife Service, that the change is protective and appropriate. We welcome any information and help on specific waterbodies you can provide that may build the case for more appropriate use designations.

AUs	Waterbody Name	Commentor	Comments	Responses
		15	The report is unclear about what effect the development of Use Attainability Analyses (UAAs) have had on the listing of tributaries. In particular, in the Boise River, some tributaries were subject to Use Attainability Analyses. Yet, those tributaries appear to be still contained on the list of water quality-limited segments. The Department should clarify that stream segments meeting the goals of any revisions to the water quality standards as they apply to those particular segments through UAAs should be delisted as well.	The UAA you refer to has not been approved by EPA; therefore, DEQ cannot take action, and the AUs in question must remain in Section 5, just as AUs with complete, yet unapproved, TMDLs must remain in Section 5.
		15	The 303d List is unclear for the basis of listing one-half mile of Arrowrock Reservoir as impaired by sediment. Arrowrock Reservoir is, to the knowledge of the Boise Project which uses storage behind Arrowrock Reservoir, not impaired by sediment, and the reservoir itself acts as a sediment trap substantially reducing the amount of sediment delivered to the Boise River from below. It also seems inconsistent to list portions of Anderson Ranch and Arrowrock Reservoir as impaired, while listing other portions of the Reservoir as unassessed. Some explanation needs to be provided for the reason that a single reservoir can appear on both lists as impaired and as unassessed.	This is an error and has been rectified. Sediment was transferred from the one of the adjacent underlying stream AUs. It occurred due to the structure of the National Hydrography Dataset (NHD). NHD has "streams" underneath the lakes for flow modeling purposes and due to this some portions of streams will show in the lakes section. All AUs bordering lakes are being edited to properly display the correct waterbody type for the 2004 Integrated Report (IR). Sediment was the transferred from the one of the adjacent underlying stream AUs.
		15	The Boise Project also questions listing the drains, such as Five Mile Creek, Indian Creek, for particular designated beneficial uses over and above the agricultural designation, and also questions whether and how these drains can be impaired for nutrients when the River itself is not listed or should not be listed for nutrients because it meets the nutrient standard of the Idaho Water Quality Act.	These are legacy listings from the 1994 303(d) list. Unless good cause for delisting these waters can be demonstrated or until the designated uses are changed via a UAA or a TMDL is completed, these waterbodies must remain in Section 5 of the Integrated Report.

AUs	Waterbody Name	Commentor	Comments	Responses
HUC# 17040207	East Mill Creek, tributary to Spring Creek in the Diamond Creek watershed	16	One hundred percent of the samples collected from the listed creeks exceeded the criterion continuous concentration (CCC) of 5 µg/L selenium. All of the streams shown in Tables 1 and 2, with the exception of Montpelier and Bakers Creek, should be included in Section 5 with selenium listed as the pollutant. (See: Streams Listed from Tables 1 & 2 below.) Marti Bridges comments: "Regarding Marv Hoyt's comments about selenium I believe he is correct. We would be obligated to list regardless of if it is NPS or PS and prepare a TMDL unless we have a RCRA, CERCLA or consent decree for cleanup that accomplishes the same thing." Pocatello Regional Office concurs with Marti's comments and adds that this stream should be listed from headwaters to confluence with Spring Cr, listed for acute violations of selenium criteria.	East Mill Creek does not exist by this name at 1:100,000 or at 1:24,000 by USGS place names. USGS Upper Valley Quad names this creek Mill Canyon; local nomenclature is E. Mill Canyon Creek, a tributary in the Diamond Creek watershed. This is needed to differentiate from another Mill Canyon in the HUC General comment relating to DEQ evaluation of metals data in the Blackfoot, Salt, and Bear River drainages: For 303(d) listing purposes, DEQ evaluates water quality data in relation to the Criteria Continuous Concentration (CCC) and the Criteria Maximum Concentration (CMC). Under both criteria, a violation of water quality standards occurs if the criteria are exceeded two or more times in a three-year period. For the CCC, DEQ has determined that a minimum of three samples spaced over a 4-day period is required to meet a 4-day average value to be used to evaluate CCC exceedances. For the CMC, instantaneous grab samples are assumed to be reasonably representative of 1-hour average concentrations to be used to evaluate CMC exceedances.
	East Mill Creek (see comments above)	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	East Mill Creek does not exist by this name at 1:100,000 or at 1:24,000 by USGS place names.

AUs	Waterbody Name	Commentor	Comments	Responses
HUC# 17040207	No name Creek below mining (near Rasmussen Creek)	16	(Table 2) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number) Data are not sufficient to determine water quality violations. No listing warranted at this time.	Rasmussen Creek does not exist by this name at 1:100,000 or at 1:24,000 by USGS place names. No Name Creek is associated with Agrium's Rasmussen Ridge Mine and is generally considered a tributary to Angus Creek.
HUC# 17040207	State Land Creek	16	(Table 2) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number) Data are not sufficient to determine water quality violations. No listing warranted at this time.	State Land Creek is tributary to upper Blackfoot River and is east of Woodall Mountain and J.R. Simplot's Conda Phosphate Mine.
HUC# 17040207US-24	Wooley Valley Creek	16	(Table 2) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)) Data are not sufficient to determine water quality violations. No listing warranted at this time.	Wooley Valley Creek does not exist by this name at 1:100,000 or at 1:24,000 by USGS place names. Wooley Valley Creek by name does not exist, but the stream in Wooley Valley does and is tributary to upper Blackfoot River confluencing between Slug Creek and Trail Creek from the north.
HUC# 17040208	Bakers Creek	16	(Table 2) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)) Data are not sufficient to determine water quality violations. No listing warranted at this time.	Bakers Creek is associated with the Gay Mine and is in the headwater drainage of the Portneuf River, located within the Fort Hall Indian Reservation.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040105SK007_02 This Spring Cr is in the Salt River HUC and has not been evaluated for metals impacts.	Spring Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	This is not the Spring Creek referenced in GYC's comments for metals impacts.
ID17040105SK007_02	Pole Canyon Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comments for Pole Canyon above. These are one and the same.
ID17040105SK007_02b	Spring Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comments for Spring Creek above.
ID17040105SK007_03	Spring Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comments for Spring Creek above.
ID17040207SK006_02a	Chicken Creek, tributary to Dry Valley Creek	16	One hundred percent of the samples collected from the listed creeks exceeded the criterion continuous concentration (CCC) of 5 µg/L selenium. All of the streams shown in Tables 1 and 2, with the exception of Montpelier and Bakers Creek, should be included in Section 5 with selenium listed as the pollutant. (See: Streams Listed from Tables 1 & 2 below.) Marti Bridges comments: "Regarding Marv Hoyt's comments about selenium I believe he is correct. We would be obligated to list	Add to section 5; listed pollutant is selenium.

AUs	Waterbody Name	Commentor	Comments	Responses
			regardless of if it is NPS or PS and prepare a TMDL unless we have a RCRA, CERCLA or consent decree for cleanup that accomplishes the same thing." Pocatello Regional Office concurs with Marti's comments. Data suggest violations of water standards and warrant listing.	
ID17040207SK006_02a	Chicken Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comment above.
ID17040207SK010	Blackfoot River – confluence of Lanes and Diamond Creeks to Blackfoot Reservoir	16	Please add this segment to Section 5	Data are not sufficient to warrant a listing of the entire reach of the Blackfoot River above the Blackfoot Reservoir. Evaluation of data collected in May 2003 (which was collected after the initial data assessment for formulation of the 2002 303(d) list) would suggest that at this time it is appropriate to list the reach of the Blackfoot River from its confluence with Spring Creek to the Upper narrows near the confluence of Mill Canyon Creek. This reach should be listed in Section 5.
ID17040207SK010_05	Blackfoot River upstream of Blackfoot Reservoir	16	(Table 2) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comment of mainstem Blackfoot River above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040207SK013	Dry Valley Creek – source to mouth, which includes Chicken Creek, a tributary of Dry Valley Creek; this stream segment should be listed from confluence of Maybe Creek to mouth, excluding Chicken Creek which is listed separately.	16	add to Section 5	Add to Section 5. Data indicate violations of water quality standards; listed pollutant is selenium.
ID17040207SK013_02	Dry Valley Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comment above.
ID17040207SK013_03	Dry Valley Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comment above.
ID17040207SK014	Maybe Creek – source to mouth	16	add to Section 5	Add to section 5; listed pollutant is selenium.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040207SK014_02	Maybe	16	One hundred percent of the samples collected from the listed creeks exceeded the criterion continuous concentration (CCC) of 5 µg/L selenium. All of the streams shown in Tables 1 and 2, with the exception of Montpelier and Bakers Creek, should be included in Section 5 with selenium listed as the pollutant. (See: Streams Listed from Tables 1 & 2 below.) Marti Bridges comments: "Regarding Marv Hoyt's comments about selenium I believe he is correct. We would be obligated to list regardless of if it is NPS or PS and prepare a TMDL unless we have a RCRA, CERCLA or consent decree for cleanup that accomplishes the same thing." Pocatello Regional Office concurs with Marti's comments. Maybe Canyon Creek should be listed in section 5 for selenium.	See comment for Maybe Creek above.
ID17040207SK014_02	Maybe Creek	16	(Table 1.) Number of results = to the continuous or maximum criterion for selenium: Number of samples analyzed for selenium (Range of concentrations detected; all values rounded to next higher whole number)	See comment for Maybe Creek above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040207SK015_02a	Upper Mill Canyon	16	According to the IDEQ document entitled, Public Comment Draft, Area Wide Risk Management Plan: Remedial Action Goals and Objectives, and Risk-based Action Levels for Addressing Releases from Historic Phosphate Mining Operations in Southeast Idaho, May 2003, the following streams also have been documented as exceeding the continuous maximum criterion (CMC) of 18 µg/L selenium and/or criteria continuous concentration (CCC) of 5 µg/L selenium: Maybe Creek, Dry Valley Creek, and Chicken Creek in the Blackfoot subbasin; Pole Canyon Creek and Sage Creek in the Salt subbasin; and Georgetown Creek in the Bear Lake subbasin.	Not sure which Mill Canyon this AU is referring to.
ID17040207SK015_02b	Lower Mill Canyon	16	(cont)…. the following streams also have been documented as exceeding the continuous maximum criterion (CMC) of 18 µg/L selenium and/or criteria continuous concentration (CCC) of 5 µg/L selenium: Maybe Creek, Dry Valley Creek, and Chicken Creek in the Blackfoot subbasin; Pole Canyon Creek and Sage Creek in the Salt subbasin; and Georgetown Creek in the Bear Lake subbasin.	Not sure which Mill Canyon this AU is referring to.
ID17040207SK015_03	Lower Spring Creek, this AU should be defined as from the confluence with E. Mill Creek to mouth.	16	(cont) …the following streams also have been documented as exceeding the continuous maximum criterion (CMC) of 18 µg/L selenium and/or criteria continuous concentration (CCC) of 5 µg/L selenium: Maybe Creek, Dry Valley Creek, and Chicken Creek in the Blackfoot subbasin; Pole Canyon Creek and Sage Creek in the Salt subbasin; and Georgetown Creek in the Bear Lake subbasin.	Add to section 5. Water quality data indicate violations of standards; listed pollutant is selenium.
		16	The following stream segments are identified in the *2002-03 Integrated 303(d)/305(b) Report* as impaired because they have been documented to contain concentrations of selenium that exceed the numeric criteria for selenium specified in Idaho's water quality standards, *IDAPA 58.01.02*:	Concur.

AUs	Waterbody Name	Commentor	Comments	Responses
			~~ID17040207SK015_02a, "upper Mill Canyon"; ID17040207SK015_02b~~, "~~lower Mill Canyon"; and ID17040207SK015_03, "lower Spring Creek."~~ ~~According to the IDEQ document entitled,~~ *Public Comment Draft, Area Wide Risk Management Plan: Remedial Action Goals and Objectives, and Risk-based Action Levels for Addressing Releases from Historic Phosphate Mining Operations in Southeast Idaho, May 2003*, the following streams also have been documented as exceeding the continuous maximum criterion (CMC) of 18 µg/L selenium and/or criteria continuous concentration (CCC) of 5 µg/L selenium: Maybe Creek, Dry Valley Creek, and Chicken Creek in the Blackfoot subbasin; Pole Canyon Creek and Sage Creek in the Salt subbasin; and Georgetown Creek in the Bear Lake subbasin. Therefore, please add the following segments to Section 5 of the *2002-03 Integrated 303(d)/305(b) Report*: ID~~17040207SK013, "Dry Valley Creek – source to mouth," which includes Chicken Creek, a tributary of Dry Valley Creek;~~ ID~~17040207SK014, "Maybe Creek – source to mouth"; ID17040105SK08, "Crow Creek – source to Idaho/Wyoming border," which includes Pole Canyon Creek; ID17040105SK09, "Sage Creek – source to mouth"; and ID16010201BR022, "Georgetown Creek – source to mouth."~~	
		16	According to the *Final 2002 Supplement to 2001 Total Maximum Daily Load Baseline Monitoring Report*, prepared November 2002 by Tetra Tech EM for IDEQ, the average values for three samples collected during a four-day period between May 7 and May 11, 2002 at three sites on the Blackfoot River upstream of Blackfoot Reservoir were 7.0 µg/L, 7.0 µg/L, and 8.7 µg/L. These results	Concur

AUs	Waterbody Name	Commentor	Comments	Responses
			exceeded the criteria continuous concentration of 5 µg/L selenium, indicating that the Blackfoot River should be listed as impaired due to selenium contamination. Please add segment number ID17040207SK010, "Blackfoot River – confluence of Lanes and Diamond Creeks to Blackfoot Reservoir" to Section 5 of the *2002-03 Integrated 303(d)/305(b) Report*.	
		16	A summary of selenium data reported from 1997 to 2002 by Montgomery Watson and the Idaho Mining Association, and by Tetra Tech EM and IDEQ (see Attachment, Tables 1 and 2), indicates that IDEQ has neither thoroughly nor consistently reviewed the data available to it for the purpose of determining which streams should be § 303(d)-listed for impairment due to selenium contamination. In fact, the logic used by IDEQ for listing streams that contain concentrations of selenium in excess of water quality standards defies analysis. This is apparent when comparing analytical data for streams a) recommended by IDEQ in the *Area Wide Risk Management Plan* for § 303(d)-listing, or b) identified by IDEQ in the *Area Wide Risk Management Plan* as exceeding water quality criteria for selenium and other mining-related metals on an episodic basis (Table 1), with analytical data for streams in which concentrations of selenium have frequently been detected (Table 2). One hundred percent of the samples collected from East Mill, Maybe, Pole Canyon, and Chicken Creeks exceeded the criterion continuous concentration (CCC) of 5 µg/L selenium, and one hundred percent of the samples collected from Maybe and Pole Canyon Creeks exceeded the criterion maximum concentration of 18 µg/L selenium. But the only	Concur.

AUs	Waterbody Name	Commentor	Comments	Responses
			streams listed for selenium in the draft *2002-03 Integrated 303(d)/305(b) Report* are Upper Mill Creek and Lower Mill Creek (i.e., East Mill Creek) and Lower Spring Creek (i.e., Spring Creek). Maybe, Pole Canyon, and Chicken Creeks are not listed for selenium or other metals. Three streams were identified by IDEQ in the *Area Wide Risk Management Plan* as "exceeding water quality criteria for selenium and other mining-related metals on an episodic basis" on the basis of selenium criteria exceedances in zero percent of the samples from Montpelier Creek, 10 percent of the samples from Sage Creek, and 23 percent of the samples from Georgetown Creek (Table 1). But IDEQ did not identify an additional five streams as "exceeding water quality criteria for selenium and other mining-related metals on an episodic basis" despite exceedances of selenium criteria in 36 percent of the samples from the Blackfoot River above the reservoir, exceedances in 75 percent of the samples from Goodheart Creek, exceedances in 40 percent of the samples from No name Creek, exceedances in 40 percent of the samples from State Land Creek, and exceedances in 17 percent of the samples from Wooley Valley Creek (Table 2). Selenium occurred in both samples of water collected from Bakers Creek in 1998 and 1999, but Bakers Creek was not sampled again during any of the area wide studies. Regardless of these inconsistencies, all of the streams shown in Tables 1 and 2, with the exception of Montpelier and Bakers Creek, should be included in Section 5 of the draft *2002-03 Integrated 303(d)/305(b) Report* with selenium listed as the pollutant.	
		16	• In regard to development of total maximum	These AUs appear in Section 5 of the Integrated

AUs	Waterbody Name	Commentor	Comments	Responses
			daily loads (TMDLs) for streams impaired by selenium, the Soda Springs Office of IDEQ makes the following statement on page 7 of the *Area Wide Risk Management Plan:* > In the resource area, the observed selenium releases in the proposed 303(d) listed streams can be traced back to individual mine sites and are occurring from non-point source discharges that are not currently required to be permitted. Due to sole source contributions and lack of permitting requirements, the Agency believes a formal TMDL process for the proposed selenium 303(d) listed streams would be a poor use of limited resources. The preparer of the *Area Wide Risk Management Plan* clearly does not understand the implications of adding a stream to Idaho's § 303(d) list, and the Soda Springs Office does not appear to be exchanging information with the Pocatello Regional Office or the Water Quality Division of IDEQ. Section 303(d) of the Clean Water Act requires States to prepare lists of impaired water bodies that do not support beneficial uses and therefore require development of total maximum daily loads (TMDLs). It is the responsibility of IDEQ to prepare	Report, and TMDLs have been scheduled as per the Principles and Policies Document. The sole fact that a waterbody is in Section 5 does not always mean a TMDL will be developed. The State of Idaho can choose to remove an AU based on "good cause." In 1998, the State of Idaho removed over 300 waters from the previous 1996 303(d) list on these grounds, and EPA upheld our action. Likewise, the 2002 Integrated Report removes some waters from Section 5 based on "good cause." This could apply to these selenium-impaired waters if, in the intervening time between Section 5 listing and the scheduled TMDL, other clean up efforts result in no further violations of WQS and in full support of the existing and designated beneficial uses of the AUs in question. Without doubt, these selenium impaired AUs will be in Section 5 of the Integrated Report until a TMDLS is developed and approved by EPA or the water is no longer impaired.

AUs	Waterbody Name	Commentor	Comments	Responses
			TMDLs for § 303(d)-listed water bodies and to submit them to the U.S. Environmental Protection Agency for review and approval. As the results of numerous lawsuits have demonstrated during the past ten years, neither the State nor the U.S. Environmental Protection Agency has the discretion to decline to write a TMDL for a § 303(d)-listed waterbody that does not support its beneficial uses or that contains concentrations of contaminants that violate State numeric water quality criteria. Despite the belief on the part of IDEQ that "a formal TMDL process for the proposed selenium 303(d) listed [*sic*] streams would be a poor use of limited resources," IDEQ and the U.S. Environmental Protection are obligated to ensure that TMDLs are prepared for § 303(d)-listed water bodies. Furthermore, because selenium concentrations in § 303(d)-listed streams can be traced to individual mine sites, and because contributions of selenium are "sole-source," the TMDL-development process should be relatively simple.	
ID17050114SW001_ 06	Boise River-Indian Creek to Mouth	17	Should be removed from Section 3 and should be listed in Section 4a (sediment and bacteria TMDL; DEQ 2000); nutrients should be delisted in Section 5 (DEQ 2001a; DEQ 2001e), and temperature should be listed in Section 4c based on EPA's addition to 1998 303(d) list (EPA 2001)).	ID17050114SW001_ 02 will be listed in Section 4a for sediment and bacteria. Nutrient delisting-SO? DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW001_ 06	Boise River-Indian Creek to Mouth	17	Should be listed in Section 4a (sediment and bacteria TMDL; DEQ 2000).	ID17050114SW001_ 02 will be listed in Section 4a for sediment and bacteria.
ID17050114SW001_ 06	Boise River-Indian Creek to Mouth	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW001_ 06	Boise River-Indian Creek to Mouth	17	Nutrient TMDL was deferred in 2000 TMDL (DEQ 2000). The SBA for nutrients (DEQ 2001a) concluded that beneficial uses were being met and should be delisted in Section 5. However, downstream Snake River-Hells Canyon TMDL will assign allocations to lower Boise River watershed[1] (DEQ 2001e) within a TMDL framework. As part of this process, allocations will include tributaries to mainstem lower Boise River.	See footnote p. 89.
ID17050114SW001_ 06	Boise River-Indian Creek to Mouth	17	Bacteria and siltation information is correct. Temperature should have been included in Section 4c based on EPA's addition to 1998 303(d) list (EPA 2001), and was deferred for further analysis in TMDL (DEQ 2000). Nutrient TMDL was deferred in 2000 TMDL (DEQ 2000). The SBA for nutrients (DEQ 2001a) concluded that beneficial uses were being met and should be delisted in Section 5. However, downstream Snake River-Hells Canyon TMDL will assign allocations to lower Boise River watershed[1] (DEQ 2001e) within a TMDL framework. As part of this process, allocations will include tributaries to mainstem lower Boise River.	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c. See footnote p. 89.

[1] The SBA for nutrients (DEQ 2001a) concluded that beneficial uses were being met and should be delisted in Section 5. However, downstream SN/Ake River-Hells Canyon TMDL will assign allocations to lower Boise River watershed (DEQ 2001e) within a TMDL framework. Thus, even though DEQ does not consider these segments themselves to be impaired for nutrients, nutrient reductions are necessary and enforceable to address downstream impairments. As part of this process, allocations will include tributaries to mainstem lower Boise River.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW002_04	Indian Creek – 4th Order	17	Nutrients and oil/grease should be removed from Section 5 because being delisted DEQ 2001b). DO levels are currently being monitored but no TMDL is required (DEQ 2001b). Bacteria has been recommended for listing in Section 5 (DEQ 2001b). Sediment is being monitored as reductions in mainstem are implemented but no TMDL is required (DEQ 2001b)[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report. Temperature should be listed in Section 5 based on EPA's addition to 1998 303(d) list (EPA 2001).	ID17050114SW002_04 will be removed from Section 5 for nutrients and oil/grease. ID17050114SW002_04 will be added to Section 5 for temperature and bacteria.
ID17050114SW003_02	Indian Creek – 1st and 2nd Order	17	Nutrients and sediment should be removed from Section 5 because being delisted (DEQ 2001b). Should be listed in Section 5 (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001).	ID17050114SW003_02 will be removed from Section 5 for nutrients and sediment. ID17050114SW003_02 will be added to Section 5 for temperature.
ID17050114SW003_03	Indian Creek – 3rd Order	17	Correct.	Comment noted.
ID17050114SW003_03	Indian Creek – 3rd Order	17	Should be listed in Section 5 (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001).	ID17050114SW003_03 will be added to Section 5 for temperature.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW003_04	Indian Creek – 4th Order	17	Nutrients and oil/grease should be removed from Section 5 because being delisted (DEQ 2001b). DO levels are currently being monitored but no TMDL is required (DEQ 2001b). Bacteria has been recommended for listing in Section 5 (DEQ 2001b). Sediment is being monitored as reductions in mainstem are implemented but no TMDL is required (DEQ 2001b)[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report. Temperature should be listed in Section 5 based on EPA's addition to 1998 303(d) list (EPA 2001).	ID17050114SW003_04 will be removed from Section 5 for nutrients and oil/grease. ID17050114SW003_04 will be added to Section 5 for temperature
ID17050114SW004_ 06	Lake Lowell	17	Correct.	Comment noted.
ID17050114SW005_ 06	Boise River - RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Should be removed from Section 3 and should be listed in Section 4a (sediment and bacteria TMDL; DEQ 2000); nutrients should be delisted in Section 5 (DEQ 2001a; DEQ 2001e), and temperature should be listed in Section 4c based on EPA's addition to 1998 303(d) list (EPA 2001)).	ID17050114SW005_ 02 will be listed in Section 4a for sediment and bacteria. See footnote p. 89. DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW005_ 06	Boise River - RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Should listed in Section 4a (sediment and bacteria TMDL; DEQ 2000).	ID17050114SW005_ 02 will be listed in Section 4a for sediment and bacteria.
ID17050114SW005_ 06	Boise River - RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	ID17050114SW005_ 02 will be added to Section 5 for temperature.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW005_ 06	Boise River - RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Nutrient TMDL was deferred in 2000 TMDL (DEQ 2000). The SBA for nutrients (DEQ 2001a) concluded that beneficial uses were being met and should be delisted in Section 5. However, downstream Snake River-Hells Canyon TMDL will assign allocations to lower Boise River watershed[1] (DEQ 2001e) within a TMDL framework. As part of this process, allocations will include tributaries to mainstem lower Boise River.	See footnote p. 89.
ID17050114SW005_ 06	Boise River - RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Bacteria needs to be added as another 4a pollutant because a bacteria SBA and TMDL were also completed for this segment (DEQ 2000). The siltation information is correct.	ID17050114SW005_ 06 will be listed in Section 4a for bacteria.
ID17050114SW005_06	Boise River – RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW005_06	Boise River – RM 50 (T04N, R02W, Sec. 32) to Indian Creek	17	Nutrient TMDL was deferred in 2000 TMDL (DEQ 2000). The SBA for nutrients (DEQ 2001a) concluded that beneficial uses were being met and should be delisted in Section 5. However, downstream Snake River-Hells Canyon TMDL will assign allocations to lower Boise River watershed[1] (DEQ 2001e) within a TMDL framework. As part of this process, allocations will include tributaries to mainstem lower Boise River.	See footnote p. 89.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW006_02	Mason Creek – 1st and 2nd Order	17	Should be removed from Section 5 because being delisted (nutrients, DO; DEQ 2001c). Bacteria has been recommended for listing in Section 5 (DEQ 2001c). DEQ concluded delisting for sediment in the SBAs based on MOD aquatic life uses where applicable (DEQ 2001c). Because numeric targets associated with these uses are in negotiation, a TMDL is not anticipated to be required but sediment should be kept in Section 5 and will continue to be monitored as reductions in mainstem are implemented[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report.	ID17050114SW006_02 will be removed from Section 5 for nutrients. DO and sediment will remain on Section 5 because the Modified beneficial use has not been approved by EPA. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050114SW007_ 02	Fifteenmile Creek - Miller Canal to mouth	17	Correct.	Comment noted.
ID17050114SW007_ 04	Fifteenmile Creek - Miller Canal to mouth	17	Correct.	Comment noted.
ID17050114SW008_ 02	Tenmile Creek - 1st and 2nd Order	17	Nutrients, DO, and sediment should be delisted from Section 5 (DEQ 2001b). Although DEQ has stated that “a large portion of [intermittent waters] are unassessed and can be found in Section 3”, this waterbody has undergone more extensive study than limited or no BURP data. Thus, because this waterbody should be delisted, it should be placed in Section 2.	ID17050114SW008_ 02 will be listed in Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW008_02	Tenmile Creek – 1st and 2nd Order	17	Should be removed from Section 5 because being delisted (nutrients, DO, sediment; DEQ 2001b). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than limited or no BURP data. Thus, it should be placed in Section 2.	ID17050114SW008_02 will be listed in Section 2.
ID17050114SW008_03	Tenmile Creek – 3rd Order	17	Nutrients and DO should be removed from Section 5 because being delisted (DEQ 2001b). Bacteria has been recommended for listing in Section 5 (DEQ 2001b). DEQ concluded delisting for sediment in the SBAs based on MOD aquatic life uses where applicable (DEQ 2001b). Because numeric targets associated with these uses are in negotiation, a TMDL is not anticipated to be required but sediment should be kept in Section 5 and will continue to be monitored as reductions in mainstem are implemented[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report.	ID17050114SW008_03 will be removed from Section 5 for nutrients. DO and sediment will remain on Section 5 because the Modified beneficial use has not been approved by EPA. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050114SW009_ 02	Blacks Creek - 1st and 2nd Order	17	Nutrients, DO, and sediment should be delisted from Section 5 (DEQ 2001d). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than limited or no BURP data. Thus, because this waterbody should be delisted, it should be placed in Section 2.	Tier 1 data = NFS. Section 5 (unknown).

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW009_ 03	Blacks Creek - 3rd Order	17	Nutrients, DO, and sediment should be delisted from Section 5 (DEQ 2001d). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than others with limited or no BURP data. Thus, because this waterbody should be delisted, it should be placed in Section 2.	Tier 1 data = NFS. Section 5 (unknown).
ID17050114SW009_02	Blacks Creek – 1st and 2nd Order	17	Should be delisted from Section 5 (DEQ 2001d). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than others with limited or no BURP data. Thus, it should be placed in Section 2.	Tier 1 data = NFS. Section 5 (unknown)
ID17050114SW009_03	Blacks Creek – 3rd Order	17	Should be delisted from Section 5 (DEQ 2001d). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than limited or no BURP data. Thus, it should be placed in Section 2.	ID17050114SW009_ 03 will be listed in Section 2.
ID17050114SW010_ 02	Fivemile Creek - 1st and 2nd Order	17	Nutrients, DO, and sediment should be delisted from Section 5 (DEQ 2001b). Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than others with limited or no BURP data. Thus, because this waterbody should be delisted, it should be placed in Section 2.	ID17050114SW010_ 02 will be listed in Section 2.
ID17050114SW010_02	Fivemile Creek – 1st and 2nd Order	17	Should be removed from Section 5 because being delisted (nutrients, DO, sediment; DEQ 2001b). Bacteria appears to have been erroneously added to Section 5. (While bacteria has been added to the	ID17050114SW010_02 will be listed in Section 2. Bacteria will be removed as a pollutant from this assessment unit.

AUs	Waterbody Name	Commentor	Comments	Responses
			downstream segment [DEQ 2001b], these two segments are hydrologically disconnected and there are no data to indicate impairment from bacteria in the upstream reach.) Although DEQ has stated that "a large portion of [intermittent waters] are unassessed and can be found in Section 3", this waterbody has undergone more extensive study than others with limited or no BURP data. Thus, it should be placed in Section 2.	
ID17050114SW010_03	Fivemile Creek – 3rd Order	17	Should be removed from Section 5 because being delisted (nutrients, DO; DEQ 2001b). Bacteria has been recommended for listing in Section 5 (DEQ 2001b). DEQ concluded delisting for sediment in the SBAs based on MOD aquatic life uses where applicable (DEQ 2001b). Because numeric targets associated with these uses are in negotiation, a TMDL is not anticipated to be required but sediment should be kept in Section 5 and will continue to be monitored as reductions in mainstem are implemented[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report.	ID17050114SW010_03 will be removed from Section 5 for nutrients. DO and sediment will remain on Section 5 because the Modified beneficial use has not been approved by EPA. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050114SW011a_06	Boise River – Diversion Dam to RM 50	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.

[2] DEQ concluded delisting for sediment in the SBAs based on MOD or CWB aquatic life uses where applicable (DEQ 2001b, 2001c, and 2000d). A TMDL is not anticipated to be required but sediment should be kept in Section 5 and will continue to be monitored as reductions in mainstem are implemented.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW011a_06	Boise River – Diversion Dam to RM 50	17	Nutrient TMDL was deferred in 2000 TMDL (DEQ 2000). The SBA for nutrients (DEQ 2001a) concluded that beneficial uses were being met and should be delisted in Section 5. However, downstream Snake River-Hells Canyon TMDL will assign allocations to lower Boise River watershed[1] (DEQ 2001e) within a TMDL framework. As part of this process, allocations will include tributaries to mainstem lower Boise River.	See footnote p. 89.
ID17050114SW011a_ 02	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should be removed from Section 3 and should be listed in Section 4a (sediment TMDL; DEQ 2000) and Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)).	ID17050114SW011a_ 02 will be listed in Section 4a for sediment. DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW011a_ 02	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should be listed in Section 4a (sediment TMDL; DEQ 2000).	ID17050114SW011a_ 02 will be listed in Section 4a for sediment.
ID17050114SW011a_ 02	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW011a_ 03	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should be removed from Section 3 and should be listed in Section 4a (sediment TMDL; DEQ 2000) and Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)).	ID17050114SW011a_ 03 will be listed in Section 4a for sediment. DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW011a_ 03	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should be listed in Section 4a (sediment TMDL; DEQ 2000).	ID17050114SW011a_ 03 will be listed in Section 4a for sediment.
ID17050114SW011a_ 03	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW011a_ 06	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Correct.	Comment noted.
ID17050114SW011a_ 06	Boise River - Diversion Dam to RM 50 (T04N, R02W, Sec. 32)	17	Should added to Section 4c (temperature) based on EPA's addition to 1998 303(d) list (EPA 2001)) and DEQ's TMDL (DEQ 2000).	DEQ considers temperature (thermal modification) a pollutant. As such, it does not belong in Section 4c.
ID17050114SW011b_ 02	Boise River - Lucky Peak Dam to Diversion Dam	17	Should be removed from Section 3 because this segment is already listed in Section 4c (flow alteration).	ID17050114SW011b_ 02 will be removed from Section 3 and listed in Section 4c.
ID17050114SW011b_ 02	Boise River - Lucky Peak Dam to Diversion Dam	17	Correct.	Comment noted.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW012_02	Stewart Gulch, Cottonwood and Crane Creeks, source to mouth	17	Should be moved from Section 5 to Section 3 because data for Cottonwood Creek consist of three BURP reports obtained during June of 1996 and 1997. These BURP stations are located within the upper part of the watershed that is intermittent (USGS Gage 13204640). Low macroinvertebrates populations resulted in low metric scores (MBI and SBI both in "Not Full Support" category). However, during spring runoff periods the seasonal macroinvertebrate communities are not yet well established and robust macroinvertebrate scores would not be expected. Finally, the Final WBAG (Grafe et al. 2002) indicates that aquatic community indexes should not apply to undesignated intermittent waterbodies. According to the limited USGS gage data (13204640), the upper reaches of Cottonwood Creek go dry for at least two months each summer. Thus, the existing biological data appear to be insufficient to support an attainment determination and this waterbody should be placed in Section 3 (EPA 2002b). If future BURP data are collected in the lower (possibly perennial) reaches of this waterbody, then this creek should be divided into separate reaches and assessed independently. In addition, no data are available for Stewart Gulch and Crane Creek, so they should be split into a different Assessment Unit.	DEQ will further review the applicable flow and water quality data for Cottonwood Creek, Crane Creek, and Stewart Gulch as part of the scheduled 2006 problem assessment. The option of splitting the assessment unit to exclude Stewart Gulch and Crane Creek will be evaluated at that time.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW012_02	Stewart Gulch, Cottonwood and Crane Creeks, source to mouth	17	Should be moved from Section 5 to Section 3 because data for Cottonwood Creek consist of three BURP reports obtained during June of 1996 and 1997. These BURP stations are located within the upper part of the watershed that is intermittent (USGS Gage 13204640). Low macroinvertebrates populations resulted in low metric scores (MBI and SBI both in "Not Full Support" category). However, during spring runoff periods the seasonal macroinvertebrate communities are not yet well established and robust macroinvertebrate scores would not be expected. Finally, the Final WBAG (Grafe et al. 2002) indicates that aquatic community indexes should not apply to undesignated intermittent waterbodies. According to the limited USGS gage data (13204640), the upper reaches of Cottonwood Creek go dry for at least two months each summer. Thus, the existing biological data appear to be insufficient to support an attainment determination and this waterbody should be placed in Section 3 (EPA 2002b). If future BURP data are collected in the lower (possibly perennial) reaches of this waterbody, then this creek should be divided into separate reaches and assessed independently. In addition, no data are available for Stewart Gulch and Crane Creek, so they should be split into a different Assessment Unit.	DEQ will further review the applicable flow and water quality data for Cottonwood Creek, Crane Creek, and Stewart Gulch as part of the scheduled 2006 problem assessment. The option of splitting the assessment unit to exclude Stewart Gulch and Crane Creek will be evaluated at that time.
ID17050114SW012_03	Stewart Gulch, Cottonwood and Crane Creeks, source to mouth	17	Should be moved from Section 5 to Section 3 because data for Cottonwood Creek consist of three BURP reports obtained during June of 1996 and 1997. These BURP stations are located within the upper part of the watershed that is intermittent (USGS Gage 13204640). Low macroinvertebrates populations resulted in low metric scores (MBI and SBI both in "Not Full Support" category). However,	DEQ will further review the applicable flow and water quality data for Cottonwood Creek, Crane Creek, and Stewart Gulch as part of the scheduled 2006 problem assessment. The option of splitting the assessment unit to exclude Stewart Gulch and Crane Creek will be evaluated at that time.

AUs	Waterbody Name	Commentor	Comments	Responses
			during spring runoff periods the seasonal macroinvertebrate communities are not yet well established and robust macroinvertebrate scores would not be expected. Finally, the Final WBAG (Grafe et al. 2002) indicates that aquatic community indexes should not apply to undesignated intermittent waterbodies. According to the limited USGS gage data (13204640), the upper reaches of Cottonwood Creek go dry for at least two months each summer. Thus, the existing biological data appear to be insufficient to support an attainment determination and this waterbody should be placed in Section 3 (EPA 2002b). If future BURP data are collected in the lower (possibly perennial) reaches of this waterbody, then this creek should be divided into separate reaches and assessed independently. In addition, no data are available for Stewart Gulch and Crane Creek, so they should be split into a different Assessment Unit.	

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW012_03	Stewart Gulch, Cottonwood and Crane Creeks, source to mouth	17	Should be moved from Section 5 to Section 3 because data for Cottonwood Creek consist of three BURP reports obtained during June of 1996 and 1997. These BURP stations are located within the upper part of the watershed that is intermittent (USGS Gage 13204640). Low macroinvertebrates populations resulted in low metric scores (MBI and SBI both in "Not Full Support" category). However, during spring runoff periods the seasonal macroinvertebrate communities are not yet well established and robust macroinvertebrate scores would not be expected. Finally, the Final WBAG (Grafe et al. 2002) indicates that aquatic community indexes should not apply to undesignated intermittent waterbodies. According to the limited USGS gage data (13204640), the upper reaches of Cottonwood Creek go dry for at least two months each summer. Thus, the existing biological data appear to be insufficient to support an attainment determination and this waterbody should be placed in Section 3 (EPA 2002b). If future BURP data are collected in the lower (possibly perennial) reaches of this waterbody, then this creek should be divided into separate reaches and assessed independently. In addition, no data are available for Stewart Gulch and Crane Creek, so they should be split into a different Assessment Unit.	DEQ will further review the applicable flow and water quality data for Cottonwood Creek, Crane Creek, and Stewart Gulch as part of the scheduled 2006 problem assessment. The option of splitting the assessment unit to exclude Stewart Gulch and Crane Creek will be evaluated at that time.
ID17050114SW013_ 02	Dry Creek - source to mouth	17	Correct.	Comment noted. Not assessed – Section 3.
ID17050114SW013_ 03	Dry Creek - source to mouth	17	Correct.	Comment noted.
ID17050114SW013_ 04	Dry Creek - source to mouth	17	Correct.	Comment noted.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW014_ 02	Big/ Little Gulch Creek complex	17	Correct.	Comment noted. Not assessed – Section 3.
ID17050114SW015_02	Willow Creek – source to mouth	17	Should include unknown based on 1998 303(d) list and temperature should be listed in Section 5 based on EPA's addition to 1998 303(d) list (EPA 2001).	ID17050114SW015_02 will be added to Section 5 for temperature.
ID17050114SW015_03	Willow Creek – source to mouth	17	Should include unknown based on 1998 303(d) list and temperature should be listed in Section 5 based on EPA's addition to 1998 303(d) list (EPA 2001).	ID17050114SW015_03 will be added to Section 5 for temperature.
ID17050114SW016_ 02	Langley/ Graveyard Gulch complex	17	The Langley/ Graveyard Gulch complex is not in the 17050114 HUC; it belongs in the 17050122 HUC (Lower Payette).	ID17050114SW016_ 02 will be moved to 17050122.
ID17050114SW016_ 03	Langley/ Graveyard Gulch complex	17	The Langley/ Graveyard Gulch complex is not in the 17050114 HUC; it belongs in the 17050122 HUC (Lower Payette)	ID17050114SW016_ 03 will be moved to 17050122.
ID17050114SW017_ 02	Sand Hollow Creek – source to mouth	17	Should be removed from Section 3 because being delisted from Section 5 (nutrients, DO; DEQ 2001c). Bacteria has been recommended for listing in Section 5 (DEQ 2001c) and sediment should be listed in Section 5 based on 1998 303(d) list.	ID17050114SW017_ 02 will be removed from Sections 3 and 5 for nutrients. Sediment will remain on Section 5 because EPA has not approved the Modified beneficial use. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050114SW017_02	Sand Hollow Creek – source to mouth	17	Should be removed from Section 5 because being delisted (nutrients, DO; DEQ 2001c). Bacteria has been recommended for listing in Section 5 (DEQ 2001c). Sediment is being monitored as further reductions are implemented but no TMDL is required (DEQ 2001c)[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report.	ID17050114SW017_ 02 will be removed from Section 5 for nutrients. Sediment and DO will remain on Section 5 because EPA has not approved the Modified beneficial use. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050114SW017_03	Sand Hollow Creek – source to mouth	17	Should be removed from Section 5 because being delisted (nutrients, DO; DEQ 2001c). Bacteria has been recommended for listing in Section 5 (DEQ 2001c). Sediment is being monitored as further reductions are implemented but no TMDL is required (DEQ 2001c)[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report.	ID17050114SW017_03 will be removed from Section 5 for nutrients. Sediment and DO will remain on Section 5 because EPA has not approved the Modified beneficial use. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050114SW017_06	Sand Hollow Creek – source to mouth	17	Should be removed from Section 5 because being delisted (nutrients, DO; DEQ 2001c). Bacteria has been recommended for listing in Section 5 (DEQ 2001c). Sediment is being monitored as further reductions are implemented but no TMDL is required (DEQ 2001c)[2]. Depending on the outcome of the monitoring, this segment may be able to be moved to Section 4b for sediment in future updates to this report.	ID17050114SW017_06 will be removed from Section 5 for nutrients. Sediment and DO will remain on Section 5 because EPA has not approved the Modified beneficial use. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050114SW011a_06	Mainstem Boise River	18	Correction to above letter #17: An error was pointed out to me after I submitted the letter to you on August 4h. The correction is to delete the words “but rather to pollution” from the bullet on page 2 entitled “Temperature Listing for Mainstem Boise River.” This correction is needed because the final TMDL for the Boise River concluded that natural conditions are responsible for temperature exceedances while the integrated report makes it clear that “pollution” is a human-caused alteration. Please take this correction into account as you finalize the integrated report.	Comment noted.

AUs	Waterbody Name	Commentor	Comments	Responses
		18	We recommend that the mainstem be delisted for nutrients but that Section 5 of the integrated list should explicitly include a footnote that references the SR-HC TMDL requirements pertinent to the Boise River (as well as other tributaries that may be affected by the allocation in the SR-HC TMDL).	See AU-based replies.
		18	We also concur with the delisting of Indian Creek, Fivemile and Tenmile Creeks, Mason Creek, and Sand Hollow Creek for nutrients for similar reasons, and recommend that Section 5 also contain the same SR-HC TMDL footnote.	See AU-based replies.
		18	EPA Region 10 has listed the mainstem for temperature (EPA 2001). However, DEQ concluded in the Lower Boise TMDL (DEQ 2000) that temperature exceedances were due primarily to solar warming rather than to discharges and that a temperature TMDL is not warranted for the mainstem river. As a result, temperature impairment is not due to a "pollutant" but rather to "pollution" and therefore these segments should be identified in Section 4c as related to temperature.	Section 4c is not appropriate for temperature. The EPA listed the Boise River from Diversion Dam to Indian Creek for temperature due to exceedences of the salmonid spawning temperature standard.

AUs	Waterbody Name	Commentor	Comments	Responses
		18	Several tributaries to the Boise River meet the definition of an intermittent stream in the Water Quality Standards (WQS). According to Item 9 under "Relevant Policies" of the Integrated Report, DEQ has not yet developed standard assessment protocols applicable to intermittent streams and thus these streams are to be listed under Section 3. Thus, if BURP data were used to assess biological integrity on intermittent reaches, then these reaches should be listed in Section 3 and not in Section 5. In addition, the Final WBAG (Grafe et al. 2002) indicates that aquatic community indexes cannot be applied to undesignated, intermittent surface water bodies. This further supports the listing of intermittent creeks in Section 3 because the aquatic community indexes were the original basis for listing in the previous 303(d) list. If future BURP data are collected in lower (possibly perennial) reaches of such water bodies, then the water bodies should be divided into separate reaches and assessed independently	This is a very timely observation, and DEQ does need to do further work with intermittent streams. Numeric water quality standards only apply to intermittent waters during optimum flow periods sufficient to support the uses for which the waterbody is designated. For recreation, optimum flow is equal to or greater than five (5) cubic feet per second (cfs). For aquatic life uses, optimum flow is equal to or greater than one (1) cfs. Most low order assessment units (2^{nd} order and maybe some 3^{rd}) contain some intermittent waters; they are assessed as a unit, and the BURP site should be located in the perennial portion of the unit. Until such time data become available to delineate the intermittent portions of assessment units, DEQ can only make its best efforts to place monitoring sites in the perennial portions. When these intermittent units can be reliably delineated, then they must be monitored and assessed as WQS apply when they are live streams.

AUs	Waterbody Name	Commentor	Comments	Responses
		18	Based on the UAAs, DEQ promulgated designated use changes for a number of segments within these tributaries and site-specific criteria for modified uses. In addition, DEQ prepared the SBAs under the assumption that these designated use changes and criteria were applicable because these changes in WQS have been approved by the Board of Environmental Quality, the State Legislature, and were incorporated into IDAPA 58.01.02 in 2002. In addition, the SBAs recommended delisting for certain pollutants for some segments. We believe that the UAAs and SBAs are technically sound and provide a solid foundation for decision-making for the Integrated Report. Therefore, we recommend that the Indian Creek, Fivemile and Tenmile Creeks, Mason Creek, Sand Hollow Creek, and Blacks Creek should be delisted for pollutants as noted below in Section 5. Although several of the upper segments of these water bodies are intermittent (and thus could be included in Section 3 as discussed above), we believe that the UAAs and SBAs provided more substantive assessments of attainment status and thus these intermittent segments should be moved to Section 2 instead	DEQ also believes the UAAs and SBAs are technically sound and provide a solid foundation for decision-making, but neither one is approved by EPA at this time. Because the approval/disapproval of the Integrated Report is a federal action, delisting of these segments will be disapproved by EPA although the action would comply with state law.
		18	The draft Integrated Report is so different from the previous 303(d) list that the schedule and priorities specified in the settlement Agree.ment are unclear, particularly in the context of changing Assessment Unit Boundary delineations.	Concur. DEQ has put together a better version of the Water Body Comment Web Site found of the Integrated Report page on DEQ's Web site.

AUs	Waterbody Name	Commentor	Comments	Responses
		18	federal and state listing requirements specify that waters will be listed based on minimum data requirements. The EPA additions to the 303(d) list for temperature (EPA 2001) appear to have been based on data that do not meet the 10 percent criteria exceedance rule stipulated in the final WBAG (Grafe et al. 2002). For example, EPA's listing for temperature in Indian Creek was based on instantaneous BURP data collected in four site visits in 1996 and 1997.	Agree. DEQ made these same arguments with EPA, and EPA chose to list the segments regardless. No minimum data standard is spelled out for the CWA or the Code of Federal Regulations supporting it. EPA's 1998 305(b) guidance suggests the 10% criteria exceedance.
		18	In each of these sections, specific reach segments have been identified differently than in previous lists, where water bodies were identified by known RM or otherwise easily-identifiable marker (e.g., Mason Creek - New York Canal to mouth). The current draft list relies on identification by stream order (e.g., Mason Creek – 1st and 2nd Order). This change in segment delineations is more consistent with the boundaries used in the Idaho WQS for designated uses. While we understand the technical basis for new delineations, the old method was easier to understand for non-technical stakeholders.	Agreed. DEQ has worked hard to build and provide tools that simplify communication and interaction with the public about AUs. New tools that cross-reference each USGS named waterbody with its associated AU are available and the 2004 Call for Data will include the location of these Web-based tools. Using familiar USGS-named streams is impractical as there are over 9,200 in Idaho. Even a printed cross-referenced list from USGS stream name to AU would be cumbersome to use as many stream names reoccur in different subbasins throughout the state.

AUs	Waterbody Name	Commentor	Comments	Responses
		18	In addition, in some cases the new method of identification changes the segment boundaries upon which previous assessments were based. For example, the mainstem lower Boise River between Diversion Dam and the mouth was originally broken into four segments, with the causes of impairment different in the upper two segments compared to the lower two. The draft Integrated Report still has four segments, but the inter-segment boundaries are not common to any of the previous boundaries. This change in boundaries leads to confusion in future proceedings. We recommend that the old delineation should be referenced (for example, "Boise River-Lucky Peak Dam to Diversion Dam" was previously identified as "Boise River-Lucky Peak Dam to Barber Diversion").	Agreed. DEQ produced and distributed a cross-referenced list between the 1998 list and the Draft 2002 Integrated Report to attempt to clarify these issues.
		18	DEQ has specified that waters wholly within wilderness and roadless areas should be placed in Section 1 of the Integrated Report. Although there are no such water bodies in the lower Boise River HUC, this stipulation likely underrepresents the number of Assessment Units that are assessed as fully supporting. There are many waters that flow almost entirely through wilderness and roadless areas that are not included on this list because they are not 100 percent contained within these areas. Finally, it appears that many wilderness lakes that fully support their beneficial uses were not included in Section 1 or Section 2 of the Integrated Report. This results in the unintended consequence of underreporting the percent of state waters that meet WQS.	Agreed. DEQ is looking at this policy and with regard to this comment and those of the City of Boise.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050101SW012_03a	Little Canyon Creek 3rd	19	93SWIRO44 = NFS 93SWIRO45 = NFS 97SWIROC17 = FS 97SWIROC18 = NFS	Section 5 as in 1998 list.
ID17050101SW010_02	King Hill Creek 1st, 2nd, 3 rd	19	97SWIROC22 = FS	Tier I data = FS. Section 2.
ID17050101SW014_02	Cold Springs Creek 1st, 2nd, 3 rd	19	95SWIROA02 = NFS	Section 5 as in 1998 list.
ID17050101SW014_03	Cold Springs Creek 1st, 2nd, 3 rd	19	95SWIROA02 = NFS This stream was on the 1998 303(d) list, but has been omitted from this report.	Section 5 as in 1998 list.
ID17050101SW016_03	Bennett Creek 3rd	19	93SWIRO54 = NFS 97SWIROC16 = NFS	Section 5 as in 1998 list.
ID17050102SW002_02	Jacks Creek 1st thru 2th	19	TMDL completed	Section 4a.
ID17050102SW002_03	Jacks Creek 3erd	19	TMDL completed	Section 4a.
ID17050102SW002_04	Jacks Creek 4th	19	TMDL completed	Section 4a.
ID17050102SW003_02	Little Jacks Creek 2nd	19	TMDL completed	Section 4a.
ID17050102SW003_03	Little Jacks Creek 3rd	19	TMDL completed	Section 4a.
ID17050102SW004_02	Big Jacks Creek 1st, 2nd, 3 rd	19	TMDL completed	Section 4a.
ID17050102SW004_03	Big Jacks Creek 1st, 2nd, 3 rd	19	TMDL completed	Section 4a.
ID17050102SW009	Bruneau River all orders	19	TMDL completed	Section 4a.
ID17050102SW009_06	Bruneau River	19	I believe a TMDL was completed for some of the streams listed.	Section 4a.
ID17050102SW011	Bruneau River all orders	19	TMDL completed	Section 4a.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050102SW013	Bruneau River all orders	19	TMDL completed	Section 4a.
ID17050102SW014_02	Sheep Creek 1st, 2nd	19		Not assessed. Section 3.
ID17050102SW014_03	Sheep Creek 3rd	19	1998STWFA037 = FS	Tier 1 data = FS. Section 2.
ID17050102SW014_04	Sheep Creek 4th	19	94SWIROA09 = NFS 94SWIROA11 = NFS 97SWIROB06 = NFS 97SWIROB07 = NFS	Section 5 (unknown).
ID17050102SW014_05	Sheep Creek 5th	19		Not assessed. Section 3.
ID17050102SW020	Bruneau River all orders	19	TMDL completed	Section 4a
ID17050102SW028_02	Clover Creek all orders	19	TMDL completed	Section 4a.
ID17050102SW028_03	Clover Creek all orders	19	TMDL completed	Section 4a.
ID17050102SW030_04	Big Flat Creek 4th	19	95SCIROB38 = NFS 95SCIROB45 = FS	Tier I data = FS. Section 2.
ID17050102SW031_02	Three Creek 1st & 2nd	19	TMDL completed	Section 4a.
ID17050102SW034_02	Deadwood Creek 1st & 2nd	19	95SCIROA51 = NFS 95SCIROA53 = FS	1998 BURP site is Not Full Support. See Bruneau SBA.
ID17050103SW002	Succor Creek 1st, 2nd, 3rd	19	TMDL completed	Section 5 as in 1998 list.
ID17050103SW002_04	Succor Creek – 4th Order	19	Remove unknown from section 5, add sediment. Succor Creek was listed for sediment on the 1998 list.	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050103SW007_03	Squaw Creek – source to mouth	19	Temperature needs to be added to section 5. EPA added it in 1998. However, we are going to propose de-listing temperature from the 2004 list. Should it be added to this list if we are going to eventually remove in 2004?	Section 5 as in 1998 list.
ID17050103SW008_02	Hardtrigger Creek – 2nd Order	19	Remove unknown from section 5, add sediment. Hardtrigger was listed for sediment on the 1998 list. However, we are going to propose de-listing sediment from the 2004 list. Should it be added to this list if we are going to eventually remove in 2004?	Section 5 as in 1998 list.
ID17050103SW009_03	Reynolds Creek 3rd	19	98SBOIA24 = FS 98SBOIA25 = FS	Section 5 as in 1998 list.
ID17050103SW014_03	Castle Creek – source to mouth	19	Remove bacteria from section 5. Bacteria was not listed on the 1998 list, nor have we collected data to indicate that it is in excess.	Section 5 as in 1998 list.
ID17050103SW019_02	Brown Creek – source to mouth	19	Temperature needs to be added to section 5. EPA added it in 1998. However, we are going to propose de-listing temperature from the 2004 list. Should it be added to this list if we are going to eventually remove in 2004?	Section 5 as in 1998 list.
ID17050103SW019_03	Brown Creek – source to mouth	19	Temperature needs to be added to section 5. EPA added it in 1998. However, we are going to propose de-listing temperature from the 2004 list. Should it be added to this list if we are going to eventually remove in 2004?	Section 5 as in 1998 list.
ID17050103SW019_04	Brown Creek – source to mouth	19	Temperature needs to be added to section 5. EPA added it in 1998. However, we are going to propose de-listing temperature from the 2004 list. Should it be added to this list if we are going to eventually remove in 2004?	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050104SW001_05	Upper Owyhee River	19	TMDL completed	Tier I data = FS. Section 2.
ID17050104SW001_04	Upper Owyhee River	19	TMDL completed	Tier I data = FS. Section 2.
ID17050104SW001_03	Upper Owyhee River	19	TMDL completed	Tier I data = FS. Section 2.
ID17050104SW001_02	Upper Owyhee River	19	TMDL completed	Tier I data = FS. Section 2.
ID17050104SW013	Castle Creek 1st & 2nd	19	TMDL completed	Section 4a.
ID17050104SW013_02	Blue Creek source to reservoir dam	19	TMDL completed	Section 4a.
ID17050104SW025	Big Springs Creek 1st thru 3rd	19	99SBOIA016 = FS	Tier I data = FS. Section 2.
ID17050104SW028	Pole Creek 4th	19	TMDL completed	Section 4a.
ID17050104SW031_03	Nickel Creek source to mouth	19	TMDL completed	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_04	Nickel Creek source to mouth	19	TMDL completed	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW033_02	Beaver Creek 1st thru 4th	19	99SBOIA006 = NFS	Tier I data = NFS. Section 5 (unknown).
ID17050105SW	SF Owyhee River	19	TMDL completed	Section 4a.
ID17050107SW006_02	Squaw Creek 1st & 2nd	19		Section 4a.
ID17050107SW006_03	Squaw Creek 3rd	19	A TMDL has been completed for this stream. Also 97SWIROA36 = FS.	Tier I data = FS. Section 2
ID17050108SW013	Rock Creek 3rd	19	96SWIROA21 = FS 96SWIROA22 = NFS 98SBOIB11 = FS 98SBOIB12 = FS	Tier 1 data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050108SW015_02	Spring Creek source to mouth	19	This stream was not on the 1998 303(d) list, nor was it listed by the EPA. It is also not on the website.	Section 5 as in 1998 list. *Spring Creek* is a tributary to *Meadow Creek*, which was on the last list. *Meadow Creek* is in AU SW010 and is a tributary to *Rock Creek*, i.e., *Meadow Creek* has been put into the wrong AU. *Spring Creek* has never been monitored nor assessed.
ID17050108SW015_03	Spring Creek source to mouth	19	This stream was not on the 1998 303(d) list, nor was it listed by the EPA. It is also not on the website.	Section 5 as in 1998 list.
ID17050108SW021	Cow Creek 4th	19	98SBOIB13 = FS	Section 5 as in 1998 list.
ID17050111SW008_02	Black Warrior Creek 1st & 2nd	19	93SWIRO40 = NFS 98SBOIB53 = FS	Tier I data = FS. Section 2.
ID17050111SW012_02	Bear River 1st & 2nd	19	93SWIRO38 = NFS 98SBOIA70 = FS 98SBOIA71 = FS	Tier I data = FS. Section 2.
ID17050112SW009_02	Mores Creek 1st &2nd	19	Mores Creek was listed for temperature by the EPA in 2000.	Section 5 (Temperature).
ID17050112SW009_03	Mores Creek 1st &2nd	19	Mores Creek was listed for temperature by the EPA in 2000.	Section 5 (Temperature).
ID17050112SW009_04	Mores Creek 1st &2nd	19	Mores Creek was listed for temperature by the EPA in 2000.	Section 5 (Temperature).
ID17050112SW009_06	Mores Creek 1st &2nd	19	Mores Creek was listed for temperature by the EPA in 2000.	Section 5 (Temperature).
ID17050112SW013_04	Grimes Creek 4th	19	Listed by the EPA for temperature in 2000	Section 5 (Temperature).
ID17050112SW013_05	Grimes Creek 5th	19	93SWIRO34 = NFS 93SWIRO35 = FS 95SWIROA65 = FS 98SBOIA73 = FS 98SBOIA74 = NFS 98SBOIA75 = NFS	Section 5 (Unknown).
ID17050112SW015_02	Macks Creek	19	This stream was on the 1998 303(d) list, but has been omitted from this report.	Tier I data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050113SW001_06	Arrowrock Reservoir (Boise River)	19	There is no data in ADB for this listing. There is also nothing on the website to support this listing.	Not assessed. Section 3.
ID17050113SW002b_03	Willow Creek 3rd	19	97SWIROA17 = NFS	Section 5 (Unknown).
ID17050113SW002b_04	Willow Creek 4th	19		Section 5 (Unknown).
ID17050113SW003_02	Wood Creek 1st & 2nd	19	Stream is in SRB, 1260 m elevation, i.e., when put in proper ecoregion, = FS	Tier I data = FS. Section 2.
ID17050113SW003_03	Wood Creek 1st & 2nd	19	Stream is in SRB, 1260 m elevation, i.e., when put in proper ecoregion, = FS	Tier I data = FS. Section 2.
ID17050113SW003_03	Wood Creek 3rd	19	97SWIROA16 = NFS	Tier I data = FS. Section 2.
ID17050113SW005_02	Anderson Ranch Reservoir 1st & 2nd	19	This assessment unit consists of 4 tributaries to the reservoir. The reservoir itself is not listed.	Section 5 (unknown).
ID17050113SW010	Lime Creek	19	Added by EPA in 2000 for temperature.	Section 5 (Temperature).
ID17050113SW010_02a	Moores Creek	19	98SBOIA07 = NFS 98SBOIA08 = FS	Section 5 (Temperature).
ID17050113SW010_03a	Moores Creek	19		Section 5 (unknown)
ID17050113SW012_02	Deer Creek	19	This stream was on the 1998 303(d) list, but has been omitted from this report.	Tier I data = FS. Section 2.
ID17050113SW018_02	Little Smokey Creek 4th& 5th	19	95TWFA062 = FS 95TWFA063 = NFS 95TWFA064 = FS 95TWFA065 = FS	Tier I data = FS. Section 2.
ID17050113SW022_02	Johnson Creek source to mouth	19	96TWFA035 = FS	Tier I data = FS. Section 2.
ID17050113SW027_03	Elk Creek (Feather River AU)	19	This stream was on the 1998 303(d) list, but has been omitted from this report.	Tier I data = FS. Section 2.
ID17050113SW027_04	Feather Creek 4th	19	Should be Feather River. 96SWIROA63 = FS 96SWIROA64 = FS	Tier I data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050113SW029_02	Green Creek source to mouth	19	95SWIROB29 = FS	Tier I data = FS. Section 2.
ID17050113SW032_03	Smith Creek 3rd	19	99SBOIA038 = NFS	Section 5 (unknown).
ID17050114SW001_02	Dixie Drain	19	Added by EPA in 2000 for temperature.	Section 5 (Temperature).
ID17050114SW008_02	Tenmile Creek 1st & 2nd	19	97SWIROA03 = NFS 97SWIROA04 = NFS	Comment noted.
ID17050114SW011b_06	Boise River Lucky Peak Dam to Diversion Dam	19	Segment is listed for flow alteration. Move to Section 4c.	ID17050114SW011_6b will be listed in Section 4c.
ID17050114SW015_03	Willow Creek – source to mouth	19	There is no data for these intermittent streams. Move to Section 3.	ID17050114SW015_03 will be added to Section 5 for temperature.
ID17050115SW001_02	Snake River Boise River to Weiser River	19	TMDL completed	Section 5 as in 1998 list.
ID17050115SW001_06	Snake River Boise River to Weiser River	19	TMDL completed	Section 5 as in 1998 list.
ID17050120SW002_02	Rock Creek 2nd	19	97SWIROC39 = FS 97SWIROC40 = FS	Tier I data = FS. Section 2.
ID17050120SW005_04	SF Payette River source to & including Trail Creek	19	This segment is entirely in wilderness and was removed from the list in 1998 by the EPA.	Section 1.
ID17050121SW003_02	Lightning Creek 1st & 2nd	19	97SWIROA71 = FS 98SBOIA76 = FS 98SBOIA77 = FS	Tier I data = FS. Section 2.
ID17050121SW010_02	Scriver Creek 1st & 2nd	19	98SBOIA44 = FS	Tier I data = FS. Section 2.
ID17050122SW003_06	Payette River confluence of the North & South Forks	19	This segment is not listed for any pollutants. Black Canyon Reservoir is listed for these pollutants.	Black Canyon Reservoir should remain in Section 5 for 1998 listed pollutants.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050123SW007_02	Cascade Reservoir	19	A TMDL has been completed for this watershed. There is also nothing on the website to support this listing.	Section 4a.
ID17050123SW008_02	Gold Fork River 1st & 2nd	19	98SBOIA32 = FS 98SBOIA57 = FS	Tier I data = FS. Section 2.
ID17050123SW008_05	Gold Fork 5th	19	98SBOIA32 = FS 98SBOIA57 = FS	Section 4a.
ID17050123SW012_03	Lake Fork River - Little Payette Lake to Cascade Reservoir	19	TMDL completed	Section 4a.
ID17050123SW015_02	Mud Creek 1st & 2nd	19	97SWIROA12 = NFS 98SBOIA29 = NFS 98SBOIA30 = NFS 99SBOIA043 = NFS 99SBOIA044 = NFS	Section 4a.
ID17050123SW016_02	NF Payette River Payette Lake to Cascade Reservoir	19	TMDL completed	Section 4a.
ID17050123SW016_04	NF Payette River Payette Lake to Cascade Reservoir	19	TMDL completed	Section 4a.
ID17050123SW017_02	Payette Lake 1st & 2nd	19	This assessment unit consists of tributaries to the lake. The lake itself is not listed.	Section 5 as in 1998 list.
ID17050123SW017_02	Fall Creek (Payette Lake)	19	Added by EPA in 2000 for temperature.	Section 5 as in 1998 list.
ID17050123SW017_03	Fall Creek (Payette Lake)	19	Added by EPA in 2000 for temperature.	Section 5 as in 1998 list.
ID17050124SW002_02	Cove Creek 1st & 2nd	19	98SBOIB23 = NFS	Section 5 as in 1998 list.
ID17050124SW005_04	SF Crane Creek 4th	19	98SBOI24 = NFS	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050124SW027_02	Pine Creek 1st, 2nd, 4th	19	97SWIROA13 = FS 97SWIROA14 = FS	Tier I data = FS. Section 2.
ID17050124SW027_04	Pine Creek 1st, 2nd, 4th	19	97SWIROA13 = FS 97SWIROA14 = FS	Tier I data = FS. Section 2.
ID17050124SW032_02	Mann Creek source to reservoir	19	98SBOIB27 = FS 98SBOIB28 = FS	Tier I data = FS. Section 2.
ID17050124SW032_03	Mann Creek source to reservoir	19	98SBOIB27 = FS 98SBOIB28 = FS	Tier I data = FS. Section 2.
ID17050201SW015_04	Wildhorse River	19	Added by EPA in 2000 for temperature.	Section 5 (temperature).
ID17050201SW010_02	Rock Creek 1st, 2nd	19		Not assessed. Section 3.
ID17050201SW010_03	Rock Creek 3rd	19		Not assessed. Section 3.
ID17050201SW010_04	Rock Creek 4th	19	99SBOIA030 = NFS	Section 5 (unknown).
ID17050201SW011_02	Wolf Creek 1st & 2nd	19	99SBOIA024 = FS	Tier I data = FS. Section 2.
ID17050201SW014_02	Brownlee Creek 1st & 2nd	19		Tier I data = FS. Section 2.
ID17050201SW014_03	Brownlee Creek 3rd	19		Not assessed. Section 3.
ID17050201SW014_04	Brownlee Creek 4th	19	99SBOIA027 = FS	Tier I data = FS. Section 2.
ID17050201SW016_02	Bear Creek 1st& 2nd	19		Not assessed. Section 3.
ID17050201SW016_03	Bear Creek 3rd	19		Not assessed. Section 3.
ID17050201SW016_04	Bear Creek 4th	19	99SBOIA054 = FS	Tier I data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060206SL012_04	Monumental Creek source to mouth	19	This boundary is incorrect. Should be W.F. Monumental Creek to mouth, i.e., the stream is on Section 5 source to mouth 2nd and 3rd order. General comment: there are many more streams in the region that are attaining all uses. I will provide a list if you like.	Section 5 as in 1998 list.
ID17060208SL009_02	Lick Creek 1st & 2nd	19	99SBOIA036 = FS	Tier I data = FS. Section 2.
ID17060208SL011_02	Fitsum Creek 1st & 2nd	19	99SBOIA033 = FS	Tier I data = FS. Section 2.
ID17060208SL012_02	Buckhorn Creek 1st & 2nd	19		Not assessed. Section 3.
ID17060208SL012_04	Buckhorn Creek 4th	19	99SBOIA049 = FS	Tier I data = FS. Section 2.
ID17060208SL014_03	Blackmare Creek 3rd	19	99SBOIA048 = FS	Tier I data = FS. Section 2.
ID17060208SL017_03	Trail Creek 3rd	19	98SBOIA066 = FS 98SBOIA067 = FS	Tier I data = FS. Section 2.
ID17060208SL022_02	Camp Creek 1st & 2nd	19	99SBOIA032 = FS	Tier I data = FS. Section 2.
ID17060208SL023_02	EFSF Salmon River 1st & 2nd	19	The EPA has verbally Agree.d that this stream should be de-listed. Official confirmation may never be received.	Tier I data = FS. Section 2.
ID17060208SL023_03	EFSF Salmon River 3rd	19	The EPA has verbally Agree.d that this stream should be de-listed. Official confirmation may never be received.	Tier I data = FS. Section 2.
ID17060208SL025_04	Johnson Creek 4th	19	97SWIROB53 = FS 97SWIROB49 = FS 97SWIROB50 = FS 98SBOIA068 = FS	Tier I data = FS. Section 2.
ID17060208SL026_03	Burntlog Creek source to mouth	19	93SWIRO07 = FS	Tier I data = FS. Section 2.
ID17060208SL027_03	Trapper Creek 3rd	19	99SBOIA021 = FS	Tier I data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060208SL028_03	Riordan Creek source to mouth	19	93SWIRO17 = FS	Tier I data = FS. Section 2.
ID17060208SL032_03	Quartz Creek 3rd	19	99SBOIA022 = FS	Tier I data = FS. Section 2.
ID17060208SL034_02	Elk Creek 1st & 2nd	19	99SBOIA047 = FS	Not assessed. Section 3.
ID17060208SL034_04	Elk Creek 4th	19	99SBOIA047 = FS	Tier I data = FS. Section 2.
ID17060210SL008_02	Mud Creek 1st & 2nd	19	95SWIROB37 = FS	Tier I data = FS. Section 2.
ID17060210SL015_03	Hard Creek source to mouth	19	95SWIROC14 = FS	Tier I data = FS. Section 2.
ID17060206SL012_04	Monumental Creek source to mouth	19	This boundary is incorrect. Should be W.F. Monumental Creek to mouth, i.e., the stream is on Section 5 source to mouth 2nd and 3rd order. General comment: there are many more streams in the region that are attaining all uses. I will provide a list if you like.	AU applies only to mainstem Monumental Creek from West Fork Monumental Creek to confluence with Big Creek.
ID17050104SW034_02	Upper Owyhee River	19	TMDL completed	Is this all the Creeks in the Upper Owyhee TMDL?
ID17060206SL012_04	Monumental Creek source to mouth	19	This boundary is incorrect. Should be W.F. Monumental Creek to mouth, i.e., the stream is on Section 5 source to mouth 2nd and 3rd order. General comment: there are many more streams in the region that are attaining all uses. I will provide a list if you like.	The name is inaccurate.

AUs	Waterbody Name	Commentor	Comments	Responses
		20,21	DEQ must evaluate impairment of aesthetic values	WQS provide WQ criteria for aesthetics and wildlife beneficial uses and are met when the narrative WQ criteria are met. DEQ assesses waters of the state to determine whether fishable and swimable uses are supported and meet WQS, specifically including the narrative criteria. Therefore support of fishable and swimable uses indicates support of wildlife and aesthetics uses. DEQ has not, however, created guidance to determine the support status of wildlife and aesthetics, and for this reason has indicated these uses as not assessed. Addressing the wildlife and aesthetics uses in this manner is consistent with the mandates of the Clean Water Act and state law. DEQ is only obligated to place waters in Section 5 of the Integrated Report when data indicate the use is impaired. No data have been provided in the comment that indicates the wildlife or aesthetics uses as impaired for any AU.
ID17050101SW001_02	Snake River – Brown Creek to C.J. Strike Dam	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW001_07	Snake River – Brown Creek to C.J. Strike Dam	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW003_02	Browns Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW003_03	Browns Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW005_07	Snake River – Clover Creek to Browns Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW006_02	Saylor Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW006_03	Saylor Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW008_02	Deadman Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW012_02	Little Canyon Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW013_02	Alkali Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050101SW013_03	Alkali Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050101SW016_02	Bennett Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050102SW003_02	Little Jacks Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW003_04	Little Jacks Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW003_02	Rattlesnake Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW003_02	OX Prong Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW003_03	OX Prong Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW004_04	Big Jacks Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW004_05	Big Jacks Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW004_02	Willies Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW005_02	Cottonwood Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW007_02	Wickahoney Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW007_03	Wickahoney Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW008_02	Sugar Valley Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW008_03	Sugar Valley Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW009_06	Bruneau River	20, 21	Add to TMDL list	Section 4a.
ID17050102SW010_02	Hot Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW010_03	Hot Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW011_06	Bruneau River	20, 21	Add to TMDL list	Section 4a.
ID17050102SW013_05	Bruneau River	20, 21	Add to TMDL list	Section 4a.
ID17050102SW014_04	Sheep Creek	20, 21	Retain on 303d list	Section 5 (unknown).
ID17050102SW015_02	Louse Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW015_02	Nanny Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW015_02	China Creek	20, 21	Add to TMDL list	Not assessed. Section 3.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050102SW015_02	Nit Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW015_03	Louse Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW015_03	Crab Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW016_02	Mary's Creek	20, 21	Retain on 303d list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW016_02	Rattlesnake Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW016_02	Trout Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW017_02	Bull Creek an both Forks	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW017_03	Bull Creek an both Forks	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW018_02	Pole Creek	20, 21	Retain on 303d list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW018_02	Black Leg Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW018_02	Cottonwood Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW018_02	Alder Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW019_02	Cat Creek	20, 21	Retain on 303d list	Tier I data = NFS. Section 2 (unknown).
ID17050102SW020_05	Bruneau River	20, 21	Add to TMDL list	Section 4a.
ID17050102SW021_02	Columbet Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW021_04	Columbet Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW021_02	Rattlesnake Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050102SW021_04	West Fork Jarbidge River	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW022_02	Cougar Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW022_03	Cougar Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW023_02	Dorsey Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW023_03	Dorsey Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW024_03	East Fork Jarbidge River	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050102SW025_02	Poison Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW025_03	Poison Creek	20, 21	Retain on 303d list	Section 4a.
ID17050102SW030_02	Big Flat Creek	20, 21	Retain on 303d list	Tier I data = FS. Section 2.
ID17050102SW030_02	Spring Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW030_02	Pole Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5.
ID17050102SW030_02	Little Spring Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050102SW031_02	Three Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW031_03	Three Creek	20, 21	Add to TMDL list	Section 4a.
ID17050102SW032, 02	Cherry Creek	20, 21	Add to TMDL list	Two 95 BURP sites are NFS. ADB says FS?
ID17050102SW033_03	Deer Creek	20, 21	Retain on 303d list	Tier I data = NFS. Section 5 (unknown).
ID17050102SW034_02	Deadwood Creek	20, 21	Add to TMDL list	Two 95 BURP sites are NFS. ADB says FS?
ID17050102SW034_03	Deadwood Creek	20, 21	Add to TMDL list	Two 95 BURP sites are NFS. ADB says FS?
ID17050103SW001_07	Snake River - 7th Order	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW002_02	Succor Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW003_03	Succor Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW003_04	Succor Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW003_02	Coal Mine Basin Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050103SW003_02	Cottonwood Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW004_02	McBride Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW004_03	McBride Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW004_02	Dead Horse Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW004_02	Little McBride Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW004_02	Dry Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW005_02	Jump Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW005_03	Jump Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW006_02, (Not in Sec 5)	Sinker Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW007_02	Squaw Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW007_03	Squaw Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW008_02	Hardtrigger Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW009_02	Reynolds Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW009_03	Reynolds Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_04	Reynolds Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Wilson Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_03	Wilson Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Salmon Creek	20, 21	Add to TMDL list	Tier 1 data = FS. Section 2.
ID17050103SW009_03	Salmon Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Cottle Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Farrot Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Murphy Creek	20, 21	Add to TMDL list	Tier 1 data = FS. Section 2.
ID17050103SW009_02	Macks Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Alkali Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Babbington Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Dobson Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050103SW009_02	Peters Gulch	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW009_02	Sheep Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW010_02	West Rabbit Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW010_03	West Rabbit Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW011_02	Rabbit Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW011_03	Rabbit Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW011_04	Rabbit Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW011_02	Briar Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW011_03	Briar Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW012_02	Tiddie Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW012_02a	Horse Ranch Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW012_02a	Scotch Bob Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW012_02a, (Not in Sec 5)	Sinker Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW012_03 (Not in Sec 5)	Sinker Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW012_04 (Not in Sec 5)	Sinker Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW012_04	Birch Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW014_02	Castle Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW014_03	Castle Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW014_04	Castle Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW014_05	Castle Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW014_02a	Horsethief Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050103SW015_05	Catherine Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW016	Cloudburst Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW016_02	Pickett Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW016_03	Pickett Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW016_03	Catherine Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW018_02	Hart Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW018_03	Hart Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW019_02	Brown Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW019_03	Brown Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW019_04	Brown Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW020 _02	South Fork Castle Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW020 _03	South Fork Castle Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW020_02	Magpie Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW020_02	Clover Creek	20, 21	Add to TMDL list	Section 5 as in 1998 list.
ID17050103SW021_02	Birch Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW021_03	Birch Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050103SW024_02	Shoofly Creek	20, 21	Retain on 303d list (not on 1998 list)	Poison Creek (a tributary) = NFS.
ID17050103SW024_02	Snow Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050103SW024_03	Shoofly Creek	20, 21	Retain on 303d list (not on 1998 list)	Not assessed. Section 3.
ID17050103SW025_02	Corder Creek	20, 21	Retain on 303d list	Section 5 as in 1998 list.
ID17050104SW001_04	East Fork Owyhee River	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050104SW001_03	East Fork Owyhee River	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050104SW001_02	East Fork Owyhee River	20, 21	Add to TMDL list	Tier I data = FS. Section 2.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050104SW001_02	Red Basin Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW001_03	Red Basin Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW003_04	Piute Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW004_02	Juniper Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW004_04	Juniper Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW005_02	Juniper Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW005L_0L	Juniper Basin Reservoir	20, 21	Add to TMDL list	Section 4a.
ID17050104SW007_03	Blue Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW007_04	Blue Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW007_5T	Blue Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW010_02	Payne Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW010_03	Payne Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW011_02	Squaw Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW011_02	Indian Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW011_02T	Indian Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW011_02	Moorcastle Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW012_02	Little Blue Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW012_03	Little Blue Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW013_03	Blue Creek	20, 21	Add to TMDL list	Section 4a.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050104SW014_02	Shoofly Creek	20, 21	Retain on 303d list	Delist bacteria. Put in Section 3.
ID17050104SW014_03	Shoofly Creek	20, 21	Retain on 303d list	Delist bacteria. Put in Section 3.
ID17050104SW014_04	Shoofly Creek	20, 21	Retain on 303d list	Delist bacteria. Put in Section 3.
ID17050104SW015_02	Harris Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW015_03	Harris Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW022_02	Yatahoney Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW022_03	Yatahoney Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW023_02	Battle Creek	20, 21	Retain on 303d list	Section 5 (temperature).
ID17050104SW023_03	Battle Creek	20, 21	Retain on 303d list	Section 5 (temperature).
ID17050104SW023_04	Battle Creek	20, 21	Retain on 303d list	Section 5 (temperature).
ID17050104SW023_02	Rock Creek	20, 21	Add to TMDL list	Section 5 (temperature).
ID17050104SW023_02	Hutch Springs	20, 21	Add to TMDL list	Section 5 (temperature).
ID17050104SW024_02	Dry Creek	20, 21	Add to TMDL list	Section 5 (unknown).
ID17050104SW025_02	Big Springs Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050104SW025_03	Big Springs Creek	20, 21	Add to TMDL list	Tier I data = FS. Section 2.
ID17050104SW026_02a	Anne Valley Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_03	Anne Valley Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_03a	Anne Valley Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02a	Corral Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02	Cow Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02a	Current Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_03a	Current Creek	20, 21	Add to TMDL list	Section 4a.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050104SW026_02	Hurry Back Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_03	Hurry Back Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_04	Hurry Back Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02	Hurry Up Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02a	Nip and Tuck Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_03a	Nip and Tuck Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02	Pleasant Valley Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_02	Stoneman Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW026_05	Deep Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW027_03	Dickshooter Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW027_05	Dickshooter Creek	20, 21	Add to TMDL list	Not assessed. Section 3.
ID17050104SW028_02	Lightning Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW028_03	Pole Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW028_04	Pole Creek	20, 21	Add to TMDL list	Section 4a.
ID17050104SW029_02	Camas Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050104SW029_03	Camas Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050104SW030_02	Camel Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050104SW030_03	Camel Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050104SW030_02	Sunshine Valley Creek	20, 21	Add to TMDL list	Tier I data = NFS. Section 5 (unknown).
ID17050104SW031_02	Wilson Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050104SW031_02	Little Thomas Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_02	Smith Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_02	Little Smith Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_02	Nickel Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_03	Thomas Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_03	Smith Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17050104SW031_03	Nickel Creek	20, 21	Add to TMDL list	Section 4a (Sediment). Section 5 (Temperature).
ID17040104SK006_02	Fall Creek	22	Listed for Unknown - Should be listed for Sediment and Temperature. The forest has three years worth of data showing major exceedences. The size is listed as 72.67 miles. This is not correct.	Agree.; DRAFT TMDL in review.
ID17040104SK006_03	Fall Creek	22	Listed for Unknown - Should be listed for Sediment and Temperature. The forest has three years worth of data showing major exceedences.	Agree.; DRAFT TMDL in review.
ID17040104SK006_04	Fall Creek	22	Listed for Unknown –Should be listed for Sediment and Temperature. The forest has three years worth of data showing major exceedences.	Agree.; DRAFT TMDL in review.
ID17040104SK011_02	Bear Creek - TMDL Complete	22	Table 2. TMDL Complete – suggest moving to Section 4a	Agree.
ID17040204SK005_04	Moody Creek	22	Moody and its Forks should be listed for sediment.	DEQ has no Tier 1 data indicating this pollutant.
ID17040204SK042_02	Fox Creek	22	The Forest Service Submitted Thermograph data showing that even in warm, dry years water temperature at the state line is very cold. In 2000 the instantaneous high was 10.6 degrees Celsius.	Approved Temperature TMDL; move to Section 4a.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17040214SK018_02	Beaver Creek	22	Forest Service data shows that the instantaneous highs in 2000, 2001, and 2002 were 22.1, 20.2, and 23.9 degrees Celsius respectively. This equates to a 2%, 0%, and 15% exceedence frequency (5% cumulative). This meets the 10% threshold.	This AU should be listed as "not assessed."
ID17040214SK018_04	Beaver Creek	22	Forest Service data shows that the instantaneous highs in 2000, 2001, and 2002 were 22.1, 20.2, and 23.9 degrees Celsius respectively. This equates to a 2%, 0%, and 15% exceedence frequency (5% cumulative). This meets the 10% threshold.	This AU carried forward from 1998 List.
ID17040215SK010_02	Edie Creek –	22	Sediment TMDL Complete - suggest moving to Section 4a	Agree.
ID17040215SK010_02	Edie Creek	22	Medicine Lodge TMDL recommended delisting for Nutrients. Move to Section 4a with TMDL complete for Sediment.	Agree.
ID17040215SK012_02	Irving Creek	22	Sediment TMDL Complete - suggest moving to Section 4a	Agree.
ID17040215SK012_03	Irving Creek	22	Sediment TMDL Complete - suggest moving to Section 4a	Agree.
ID17040215SK012_03	Irving Creek	22	Medicine Lodge TMDL recommended delisting for Nutrients. Move to Section 4a with TMDL complete for Sediment.	Agree.
ID17040215SK016_02	Fritz Creek	22	Medicine Lodge TMDL recommended delisting for Nutrients. Move to Section 4a with TMDL complete for Temperature.	Agree.
ID17040215SK020_02	Warm Springs Creek	22	Medicine Lodge TMDL recommended delisting for Nutrients & Sediment. Delisting would move segment from Section 5 to Section 2.	Agree.
ID17040215SK020_03	Warm Springs Creek	22	Medicine Lodge TMDL recommended delisting for Nutrients & Sediment. Delisting would move segment from Section 5 to Section 2.	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060207SL001_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree.
ID17060207SL008_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree.
ID17060207SL018_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060207SL037_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree.
ID17060108CL027a_02	Big Creek – source to T42N R3W Sec 8	22	The following river segment description may be in error: listed as 5.23 miles, but is closer to 2.5 miles.	This is all of the 1st & 2nd order tributaries of Big Creek, WBID# 027a, in the Palouse. Please see DEQ's Web site for a graphical representation of the AU.
ID17060108CL027b_02	Big Creek – T42N R3W Sec 8 to mouth	22	The following river segment description may be in error: listed as 15.49 miles, but is 6.5.	See above; applies to WBID#027b and includes Last Chance Creek.
ID17060108CL030_02	Gold Creek – source to T42N R4W Sec 28	22	The following river segment description may be in error: listed as 19.96 miles, but is 5.1 miles.	This is all of the 1st & 2nd order tributaries of Gold Creek and Nelson Creek, WBID# 030, in the Palouse. Please see DEQ's Web site for a graphical representation of the AU. Further, the upper portion of this AU was delisted in 1998, but now the AU encompasses the section that remained on the list.
ID17060108CL032a_02	Deep Creek – source to T42NR5W Sec 2	22	The following river segment description may be in error: listed twice, with 23.76 and 0.63 miles. The legal description is where the East, Middle, and West Forks come together, and their combined length is approximately 18 miles.	This is all of the 1st & 2nd order tributaries of Deep Creek, including the East Fork of Deep Creek, WBID# 032a, in the Palouse. Please see DEQ's Web site for a graphical representation of the AU.
ID17060108CL032a_03	Deep Creek – source to T42NR5W Sec 2	22	The following river segment description may be in error: listed twice, with 23.76 and 0.63 miles. The legal description is where the East, Middle, and West Forks come together, and their combined length is approximately 18 miles	This is all of the 3rd order of Deep Creek, WBID# 032a, in the Palouse. Please see DEQ's Web site for a graphical representation of the AU.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060207SL001_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree. All pollutants were removed, but, in the assessment process, the support status of the Cold Water Aquatic Life Use was left as not supporting. This has been corrected and the segment now appears in Section 2 of the Integrated Report.
ID17060207SL008_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree. All pollutants were removed, but, in the assessment process, the support status of the Cold Water Aquatic Life Use was left as not supporting. This has been corrected and the segment now appears in Section 2 of the Integrated Report.
ID17060207SL018_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree. All pollutants were removed, but, in the assessment process, the support status of the Cold Water Aquatic Life Use was left as not supporting. This has been corrected and the segment now appears in Section 2 of the Integrated Report.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060207SL037_07	Salmon River	22	Four segments from Chamberlain Creek to River Mile 106. It was our understanding that this river group of segments was assessed in the Middle Salmon/Chamberlain Assessment and TMDL, and all were recommended for delisting. This is primarily a wilderness section of the Salmon River and segments up and downstream are not listed or recommended for listing. Delisting as wilderness would move segments from Section 5 to Section 1.	Agree. All pollutants were removed, but, in the assessment process, the support status of the Cold Water Aquatic Life Use was left as not supporting. This has been corrected and the segment now appears in Section 2 of the Integrated Report.
ID17060302CL006_02	Selway River – Meadow Creek to Ohara Creek	22	The following river segment description may be in error: We believe this stream may have been listed in error. The Selway River is noted in the table on Page 20 as not recommended for listing, with the reasons given as apriori natural and less than 10% exceedence. Also, the reaches of the Selway River just upstream and downstream are listed in Section 3 of the Report.	This AU contains the 2nd order tributaries to the Selway from Meadow Creek to Ohara Creek, not the Selway Proper, which is the 6th order and is listed in Section 3.
ID17060303CL009_02	Holly Creek – and tributaries	22	We believe this stream may have been listed in error. It may have been the intent of DEQ to list the Lochsa River instead. Holly Creek is a roadless stream, 22.8 miles in length, including its tributaries. The 303d list "size" for Holly Creek as 66.11 miles. This is the approximate length of the Lochsa River. We believe DEQ should remove Holly Creek from the 303d List and add the Lochsa River (If that was their original intent).	Holly Creek appeared in Section 5 due to a data-entry error. Holly Creek was found to be supporting beneficial uses and will be listed in Section 2.
ID17060305	South Fork Clearwater River and tributaries.	22	The South Fork Clearwater River Subbasin Assessment and TMDLs is currently in a public review draft phase. It is our understanding that once this TMDL is approved by EPA, the streams in this part of Section 5 would be moved to Section 4a of the Report.	Once EPA approves the SF Clearwater River SBA and TMDL, these segments will be placed in Section 4a.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL026_02	Lolo Creek – Yakus Creek to mouth	22	Listed for "Unknown." See comment 13 above. The above listed parameters should apply to Lolo Creek - Yakus Creek to mouth. The "Unknown" pollutant is not appropriate for this stream. Lolo Creek is one of the most studied streams in the State of Idaho, with past and current monitoring by the Nez Perce Tribe, Fish and Game, DEQ, BLM, and FS. In conclusion, DEQ should not list Lolo Creek above Yakus Creek and should list Lolo Creek - Yakus Creek to mouth for bacteria, nutrients, oil and grease, inorganics, sediment, and temperature.	Concur. Further DEQ monitoring confirms the impairment of the beneficial use. Pollutants were carried forward from the 1998 303(d) list. Unknown inadvertently replaced the previously listed pollutants.
ID17060306CL028_02	Lolo Creek – source to Yakus Creek	22	Listed for bacteria, nutrients, oil and grease, inorganics, sediment, and temperature. We believe DEQ has listed this portion of Lolo Creek in error. Lolo Creek (Headwaters to Eldorado Creek) was not listed on the 1998 List; however, Lolo Creek below Eldorado Creek was listed for the above parameters. We believe it is the intent of DEQ to list Lolo Creek below Yakus Creek and not above Yakus Creek. This correction would most approximate the 1998 303d List.	This is a carry-over AU from the 1998 303(d) list. Monitoring data at the time indicated impairment of the beneficial use. Sediment has been identified as the cause.
ID17060306CL028_04	Lolo Creek – source to Yakus Creek	22	Listed for bacteria, nutrients, oil and grease, inorganics, sediment, and temperature. We believe DEQ has listed this portion of Lolo Creek in error. Lolo Creek (Headwaters to Eldorado Creek) was not listed on the 1998 List; however, Lolo Creek below Eldorado Creek was listed for the above parameters. We believe it is the intent of DEQ to list Lolo Creek below Yakus Creek and not above Yakus Creek. This correction would most approximate the 1998 303d List.	This is a carry-over AU from the 1998 303(d) list. The likely cause of confusion over this listing is the boundaries of the previous segment vs. the new extent of the assessment unit.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL028_04	Lolo Creek – source to Yakus Creek.	22	Listed for habitat alteration and flow alteration. See comments 13 and 14 above for Section 5. Again, we believe DEQ has listed Lolo Creek source to Yakus Creek in error. Lolo Creek - Yakus Creek to mouth is the portion of stream that has historically been listed for habitat and flow alteration. DEQ should make this correction.	See above.
ID17060306CL049_02	Potlatch River – headwaters and tributaries	22	The following river segment description may be in error: listed as 61.71 miles. The distance of the mainstem upstream of Moose Cr is about 8 miles, and there are a number of named tributaries - West Fork Potlatch, Cougar Cr, Talapus, Feather Cr, Laguna Cr, nat Brown and Purdue - but they do not add up to 61 miles. If this is meant to include all waters above Moose Cr, then another description should be used.	See previous explanation of AU total mileages. Additionally, descriptions will be more accurate for the 2004 IR.
ID17060306CL049_03	Potlatch River – source to Moose Cr	22	The following river segment description may be in error: listed with 5.3 and 3.7 miles. It does total about 8.1 miles. The two listings give different pollutants: both are listed for nutrients, sediment and temperature; but 03 lists pathogens, while 04 lists bacteria.	See above. The differences likely arise from a difference in pollutants between previous listing that are now combined into one AU.
ID17060306CL049_04	Potlatch River – source to Moose Cr	22	The following river segment description may be in error: listed with 5.3 and 3.7 miles. It does total about 8.1 miles. The two listings give different pollutants: both are listed for nutrients, sediment and temperature; but 03 lists pathogens, while 04 lists bacteria.	See above.
ID17060306CL051_04	East Fork Potlatch River – source to mouth	22	The following river segment description may be in error: listed as 4.73 miles. That distance is more like 20.5 miles. The distance from Ruby Cr to the mouth is closer to the 4.73 miles.	See previous explanation of AU total mileage's. Additionally descriptions will be more accurate for the 2004 IR.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060306CL052_03	Ruby Creek – source to mouth	22	The following river segment description may be in error: was listed as 2.14 miles. The distance is 5.94 miles. The 1998 list was for Ruby Creek to an unnamed trib 3.4 km upstream of the East Fork, which would be 2.14 miles, but then the descriptor is incorrect.	See above.
ID17060306CL053_02	Moose Creek – source to mouth	22	The following river segment description may be in error: listed with different mileages, 3.7 and 15.72 miles. The length is more like 6.5 miles.	See above.
ID17060306CL053_03	Moose Creek – source to mouth	22	The following river segment description may be in error: listed with different mileages, 3.7 and 15.72 miles. The length is more like 6.5 miles.	See above.
ID17060306CL054_02	Corral Creek – source to mouth	22	The following river segment description may be in error: listed as 7.57 and 22.29 miles. The West Fork of Corral Cr is about 2.9 miles, East Fork Corral is 5.21 miles, and the main Corral Creek totals 11.44.	See above.
ID17060306CL054_03	Corral Creek – source to mouth	22	The following river segment description may be in error: listed as 7.57 and 22.29 miles. The West Fork of Corral Cr is about 2.9 miles, East Fork Corral is 5.21 miles, and the main Corral Creek totals 11.44.	See above.
ID17060307CL001_02a	Sneak Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	Forest Plans are not equivalent to State WQS, nor are Forest Plans enforceable. While this approach is sound in many ways, “good cause” as defined in the Principles and Policies document cannot be demonstrated in order to remove a waterbody from Section 5. These proposed criteria could be used as a basis to move waterbodies to Section 4b in the 2004 Integrated Report once DEQ has conducted a public comment on a Section 4b policy.
ID17060307CL005_02a	Tamarack Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL007_02a	Sylvan Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060307CL011_04	Weitas Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL012_02	Middle Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL021_02	Gravey Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL021_02a	Marten Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL021_03	Gravey Creek (Roadless)	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL021_03a	Gravey Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL029_02	Little Moose Creek (Roadless)	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL030_02	Osier Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL030_02a	Sugar and Pollock Creeks	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL030_03	Osier Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL032_02a	Deception Gulch Creek (Recommend leave listed for sediment)	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060307CL033_03	Lake Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL039_02	Elizabeth Creek (Roadless)	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL040_02	Cold Springs Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL040_02a	Middle Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL040_03a	Middle Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL043_02	Rock Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL044_02a	Grizzly Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL044_03	Quartz Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL045_02	Cougar Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL046_04	Skull Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060307CL047_04	Skull Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17060307CL048_03	Collins Creek (Roadless)	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID17060308CL010_03	Isabella Creek	22	Listed for Temperature yet protective measures or needed restoration work has been completed by the Forest Service	See above.
ID1706060306CL048_04	Potlatch River – Moose Cr to Corral Cr	22	The following river segment description may be in error: listed with different mileages, 6.66 and 7.7 miles. That distance is closer to 13.99 miles. Is there some other tributary that splits these two sections?	The East Fork of the Potlatch River (ID17060306CL051_04) splits this section of the Potlatch River and changes the stream order from 04 to 05 and, therefore, splits the Potlatch River from Moose Creek to Corral Creek into two distinct AUs.
ID1706060306CL048_05	Potlatch River – Moose Cr to Corral Cr	22	The following river segment description may be in error: listed with different mileages, 6.66 and 7.7 miles. That distance is closer to 13.99 miles. Is there some other tributary that splits these two sections?	The East Fork of the Potlatch River (ID17060306CL051_04) splits this section of the Potlatch River and changes the stream order from 04 to 05 and, therefore, splits the Potlatch River from Moose Creek to Corral Creek into two distinct AUs.
		22	River segments occurring entirely or mostly on National Forest System (NFS) lands that are listed for temperature and where protective measures have been applied or needed restoration work has been conducted should be removed from the State of Idaho list of Impaired Waters. Those waters where management actions are creating unnatural temperature increases above State approved standards should continue to be listed.	These waterbodies must be either EPA approved TMDLs or DEQ must demonstrate “good cause” for removing water bodies from Section 5 of the Integrated Report that were on previous 303(d) lists (pursuant to 40 CFR 130.7(b)(6)(iv)).

AUs	Waterbody Name	Commentor	Comments	Responses
		22	Riparian areas (riparian habitat conservation areas) are protected using measures applied to prevent adverse impacts on water and aquatic resources as per PACFISH/INFISH guidelines. Forests in Idaho have either amended their Forest Plans to reflect the PACFISH/INFISH guidelines or revised their Forest Plans with even more conservative goals, objectives, guidelines, and standards. Riparian Management Objectives (RMOs) defined by these amendments must be fully implemented. Consequently, Forest Plan direction constitutes an appropriate foundation for a temperature TMDL Implementation Plan. Therefore, we recommend that river segments listed for temperature that meet the following criteria be removed from the State of Idaho list of Impaired Waters: • The source area is dominated by NFS lands, i.e. >85% NFS in the watershed and in the riparian habitat conservation area (RHCA). • Management activities are limited to those associated with forest vegetation management. • Riparian management that follows the policies established by the PACFISH/INFISH amendments or more stringent direction as stated in the Forest Plans. • Active riparian restoration affecting water temperature is not needed or has been completed in the watershed. The waterbody is currently listed for temperature only.	Forest Plans are not equivalent to State WQS, nor are Forest Plans enforceable. While this approach is sound in many ways, “good cause” as defined in the Principles and Policies document cannot be demonstrated in order to remove a waterbody from Section 5. These proposed criteria could be used as a basis to move water bodies to Section 4b in the 2004 Integrated Report once DEQ has conducted a public comment on a Section 4b policy.

AUs	Waterbody Name	Commentor	Comments	Responses
		23	DEQ should have provided a map showing each of the streams segments and coding them for color. The back and forth with the charts is difficult and the document's readability is seriously compromised by the lack of a comprehensive map.	With well over 5000 AUs, this request is only possible to fulfill through DEQ's Web site, not on paper. DEQ provided tools to support the public's ability to comment on the Integrated Report. Based on public comment, DEQ has further developed and simplified these tools.
		23	Why are many of the streams listed as not having been assessed? These seem to include segments that include or are adjacent to stream segments that are impaired waterways. Some of the streams include Brushy Fork, Lolo Creek, Red River, South Fork Clearwater, North Fork Clearwater, Potlatch Creek, Skull Creek, Quartz Creek and the St. Joe River. This list is huge and contains many crucial water bodies known to exceed forest plan standards.	Names of individual AUs can be misleading. Streams appearing in Section 3 have not been monitored by DEQ and/or no outside information was available at the time of assessment. Forest Plan Standards are not State WQS, and Forest Plan Standards do not indicate any measure of beneficial use support status. As such, DEQ is not listing or delisting waters based on Forest Plan Standards.
		23	The habitat alternation/flow section is misleading. For example, upper Lolo Creek (above Yakus Creek) is entirely on the Clearwater National Forest and there are no irrigation dams on it. The reason for its impairment is the same as other streams that are listed as impaired and need TMDLs--Forest Service roads and logging. Putting the upper Lolo Creek in that category prevents it from being a 303(d) stream when it should be so listed.	The 2nd order portion of Lolo Creek (ID17060306CL028_02) is listed for sediment. The 4th order portion of Lolo Creek (ID17060306CL028_04) is listed for Bacteria, Organic enrichment/Low DO, Flow alteration, Other habitat alterations, Nutrients, Oil and grease, Siltation, & Thermal modifications. When this occurs, this AU will show up in multiple portions of the Integrated Report: Section 4c for flow and habitat alteration and Section 5 for the other pollutants.
		23	have all of the TMDLs listed in the charts been approved by EPA?	This was an error and has been rectified. In the draft version of the Integrated Report, the approval date was propagated to each pollutant of an AU inadvertently. The final Integrated Report correctly shows AUs with EPA approved TMDLs.

AUs	Waterbody Name	Commentor	Comments	Responses
		23	The methodology of the frequently-cited BURP, CWE and WBAG II processes are questionable. It certainly appears to us these processes were designed as a way to remove streams that had been listed. We are not aware that BURP has been peer-reviewed or accepted by the scientific community. How can we have confidence in its scientific validity?	This was addressed in the WBAG2 Response to Comments Document that can be found here: http://www.deq.state.id.us/water/surface_water/wbag/WBAG2001_Response_Sec2-Sec3.pdf
		23	This is important because many streams have been erroneously removed from the list in the past based on this methodology. For example, several streams in the Clearwater Basin that do not meet water quality standards established in the Clearwater or Nez Perce forest plans are not listed as 303(d) streams.	Disagree. Forest Plans are not state WQS.
		23	The process for delisting streams is far less rigorous than for listing streams. This inherent inconsistency needs to be corrected.	Disagree. The process for listing streams is far less rigorous than for delisting streams. This very fact resulted in EPA listing wilderness waters, wild and scenic rivers, and reference streams in the 1994 action. DEQ has worked extremely hard to monitor the waters on the list and to retain those that are truly impaired while working to de list those that are not.
		23	The removal of several of the streams for temperature is problematic. The Lochsa is affected by roads, including highway 12 and significant logging in much of its headwaters. The removal of Weir Creek, based upon a decision it is natural, is not supported by the facts. The Lolo Motorway (500 road) crosses its headwaters and the highway 12 cutbank is near its mouth. thus, its hydrology has been affected.	"Affected" does not mean impaired. Very little of Weir Creek's is affected by the Lolo Motorway. The Motorway is a maintained USFS road that runs along the subbasin boundary. Looking down from the motorway, one can observe that Weir Creek is one of the most intact watersheds left on the north side of the Lochsa.

AUs	Waterbody Name	Commentor	Comments	Responses
		23	The Selway River is in a similar situation to Weir Creek. While much of the Selway is in Wilderness, the Magruder road crosses its headwaters and follows along it for a few miles. The spur road to Paradise guard station leaves the Magruder road and, for several miles, follows the Selway. These dirt roads do affect the water quality in the Selway as the recent blowout on the Magruder road shows.	This mass failure/debris torrent originating on Snowwater Creek is extremely different from the Weir Creek above. In 2000, a large wildfire covering more than 76,000 acres burned in the Selway-Bitterroot. Most of the fire was of low to moderate severity, but 160 acres in the Snowwater Creek drainage was severe. On August 3, 2003, a big thunderstorm hit, causing a mass failure originating far above the Magruder road in the Snowater Creek drainage. It built into a debris torrent 2.5-miles long and 15-feet wide by 10-feet deep. This debris torrent took out lower Snowwater Creek, Magruder Creek, and then wiped out the Magruder road terminating in the Selway River. This natural event was neither caused nor exacerbated by the Magruder road (Personal communication with Mike Jacober, West Fork Ranger District, Bitteroot National Forest). As a natural event, a TDML will not be written nor will the waterbodies in question be listed in Section 5.
		24	Please add those waters that exceed EPA standards fo bacteria and nutrients based on the data provided.	The call for data closed some months back. Assessments were completed based on data that was readily available at that time. Further, a TMDL has been completed for this AU's referenced in comment letter 24. These AU's will be reevaluated for the 2004 reporting cycle. The data provided will be saved and incorporated in those assessments. Bacteria has been added to some AUs.
		25	Waters impaired by Habitat or Flow Alteration in sect must be included in section 5 (the 303(d) list)	DEQ disagrees that waters impaired by flow or habitat alteration should be in Section 5. 303(d) requires listing and TMDL development for pollutants. Habitat and flow alteration do not fit within the definition of pollution as used in the CWA.

AUs	Waterbody Name	Commentor	Comments	Responses
		25	As a matter of law then, waters listed in section 4C as impaired by "pollution" must be moved to section 5 (the 303(d) list) if any applicable water quality standard (including a use, a criterion, and/or the antidegradation policy) is not, or is not expected to be, met. This would include waters listed in the draft report as impaired by flow or habitat alteration if any standard is affected. So, if the aquatic life use is impaired due to habitat alterations, that water must be listed in section 5 (the 303(d) list) under the statute.	Most waters in Section 4c do indeed appear in Section 5. Careful examination of the list will show that all AUs except one have multiple pollutants and, therefore, appear in Section 5. Water listed for pollution now and in the future will remain in Section 4c.
		25	Even if the above was not established in law, the regulations do not separate "pollutants" from "pollution" for listing purposes.	The sole purpose for listing waterbodies in Section 5 is for the development of a TMDL. TMDLs are only developed for pollutants.
		25	The draft report admits it is woefully unable to address certain kinds of waters, specifically intermittent waters, wetlands, and, to a lesser extent, springs and lake outlets (see draft report, pages 15 and 16). While the existing protocols of WBAGII may not be completely appropriate for these situations, it does not follow that the waters and any data related to them can be ignored. This is not a minor issue in Idaho, where the U.S. Geological Survey identifies 33,000 miles of our streams as intermittent. The draft report states that most of these waters are in section 3 (un-assessed waters). Please explain whether there is any data at all on these waters and what that data suggests about water quality standards support. If the data suggests impairment, the waters should be placed in section 5.	No accurate or useful estimate of intermittent streams exists for Idaho. DEQ uses the 33,000 mile figure as a very lose estimate based on the USGS NHD product. The state's water quality standards IDAPA 158.01.02 070 (APPLICATION OF STANDARDS) state that numeric water quality standards (really criteria) only apply to intermittent waters during periods of optimum flow. The standards in this section go on to state that optimum flows are 5 cfs for recreation and 1cfs for aquatic life uses. Therefore, it is improper and not legally supported to consider impaired or to 303(d) list an intermittent stream that fails to meet numeric criteria at less than optimum flows. Additionally, DEQ does not place ambient monitoring sites on intermittent streams, wetlands, springs, or lake outlets. If data were available for intermittent streams, corresponding discharge measurements would need to be evaluated to determine if the data were collected during optimum flow conditions.

AUs	Waterbody Name	Commentor	Comments	Responses
		25	The draft report is based primarily on a data analysis process developed in the WBAG II. According to EPA comments dated September 28, 2001, WBAG II "….is not a tool to identify downward trends, threatened waters, change in condition, or areas of antidegradation." This means the draft report does not identify threatened waters or those with antidegradation problems (a part of the water quality standards package) for 303(d) listing. This omission is inconsistent with the statute, regulations, and U.S. EPA guidance. If WBAG II is not up to the job, the agency must use another method to identify threatened waters and those with antidegradation concerns and add them to section 5 (the 303(d) list).	WBAG2 and associated processes are designed to determine the support status of the most sensitive beneficial uses and is more than sufficient for listing and delisting purposes. Further, WBAG2 specifically states that WQS violations result in Section 5 listing when exceedences are greater than 10% even if the beneficial uses is fully supported. "Changes in condition" and "downward trends" do not in all cases warrant TMDLs. It is to each state's discretion to utilize the "Threatened" category. At this time, Idaho does not use this category. Idaho addresses anti-degradation requirements through WQS.
		25	According to the draft report, all wilderness waters and a subset of roadless area waters are assumed to be meeting all uses and so are placed into section 1. This assumption is not based on any kind of factual data. While it is true that many of these waters should be Idaho's finest, many uses are allowed in wilderness and roadless areas that can harm water quality. Cattle and sheep grazing is an obvious example in Idaho. Other more intense activities may come into play, for example the mining activity proposed in the Frank Church Wilderness. The agency must not place these waters into section 1 without evidence of non-degradation to back up the claim. Where no data exists, these waters should be placed in section 3 and scheduled for monitoring.	DEQ concurs with the concept and carefully screened each AU proposed for Section 1 as outlined in DEQ's Principles and Policies for the Integrated Report. Many AUs in and around the Frank Church River of No Return Wilderness were rejected due to similar concerns. Of all the water in Idaho, these waters stand out, and some that have been monitored have been selected as part of the reference trend network. DEQ does not have the resources to monitor all the waters of the state. The state has full discretion as to where to place AUs; EPA has the responsibility to approve the state's action. EPA will be approving the placement of AUs in to Section 5 and the failure to place an AU in to Section 5. EPA will not be reviewing whether an AU is placed in Section 1 vs. Section 2 vs. Section 3. Conversely, EPA supported the DEQ approach and rationale.

AUs	Waterbody Name	Commentor	Comments	Responses
		25	Section 1 should also contain those segments determined to be fully supporting their beneficial uses through the assessment process and include the basis for the determination. The *Non-303(d) listed Segments found to be Supporting their Beneficial Uses* section in the 1998 list provides a template for this addition to section 1.	DEQ used that "template" to carry forward those AUs from the 1998 assessments to Section 2 of the Integrated Report, just like the 1998 303(d) list was used to carry forward all those AUs that were found to be impaired and did not have "good cause" for delisting.
		25	The state is to be commended for holding a public call for data before developing the list, as required by 40 C.F.R. § 130.7(b)(5)(iii), but efforts to reach out to other agencies and the public are hard to judge since the draft report provides no information on data submissions and the process for deciding what data would be incorporated into the report.	The process for accepting or declining outside data was clearly defined in WBAG2. DEQ took public comment on the outside data policy and responses can be found here: http://www.deq.state.id.us/water/surface_water/wbag/WBAG2001_Response_Sec2-Sec3.pdf These criteria are reprinted verbatim in the Principles and Policies document. DEQ conducted a 45-day call for data from March 15 to April 30, 2002. During this time all six DEQ Regional Offices sent letters to agencies and institutions likely to have water quality data pertaining to WQS and/or beneficial use support status. Letters went to Idaho Department of Fish and Game, Bureau of Land Management, and the United States Forrest Service. Additionally, DEQ provided Internet-based tools that allowed users to provide electronic data 24/7 during the 45-day call for data. Much of the outside data that was Tier 1 was temperature data that resulted in adding AUs to Section 5.

AUs	Waterbody Name	Commentor	Comments	Responses
		25	However, the public is not aware of what data was submitted for listing consideration, what data was used, and what data was excluded (and why). This makes it impossible for us to comment on the listing decisions in an informed manner. Please share a breakdown of data submitted for consideration and the rationale for using or discarding the data. This is not an unreasonable request as the state is required to submit this information to U.S. EPA along with the 303(d) list.	DEQ provides the precise criteria by which decisions are made as to which tier outside data is categorized. Additionally, DEQ outlines the appropriate use for each data tier. These are not subjective decisions. The data submitted are hard to display as some data are on paper, some are electronic, and some data is even by reference. In many cases, the data are attached in the EPA database to the actual assessment.
		25	"Each AU should be placed in only one of the five unique assessment categories." 2002 Integrated Water Quality Monitoring and Assessment Report Guidance (November 19, 2001). In the draft report, the agency lists waters in multiple categories, creating confusion. We request that the agency adhere to guidance by placing each AU in just one section, and retaining "listed" waters in section 5.	Impaired waters are always treated on a pollutant-by-pollutant basis, and TMDLs are always written for a segment-pollutant combination (now an AU-pollutant combination). In other words, if an AU is listed for Nutrients and Sediment, two TMDLs are required. To keep an accurate accounting of AU-pollutant combinations, DEQ wishes to treat them individually. The only time AUs are listed in multiple categories is when they are impaired. This occurs when a TMDL is completed for some, but not all, pollutants or when pollutants and pollution impair a waterbody. This approach makes the process of reporting TMDL completed and tracking workloads much simpler.

AUs	Waterbody Name	Commentor	Comments	Responses
		25	The list does not tie to impaired uses, making it hard for the public to understand what the problem means. At minimum, the agency should list the use(s) impaired for section 5 (303(d) list) waters. This is important for public understanding and, in some cases, public health. Listing the supported/un-assessed uses in other categories would be helpful as well.	The Integrated Report is the fist time DEQ did, in fact, tie to the impaired beneficial use. No previous 303(d) list has ever tied the impairment to the beneficial use. DEQ's Web-based comment tool shows the much more than what is impaired. It displays designated uses, the existing uses, presumed uses, and if impaired, the impaired beneficial uses. If you did not have access to the Web, then generally, by looking at the listed pollutant, the impaired use can be determined. Bacteria or pathogens impair contact recreation. If the pollutant is temperature it will impair either the aquatic life or salmonid spawning beneficial use. Otherwise, when the pollutant is unknown, you are safe in assuming the cold water aquatic life use is impaired.
		25	While our 305(b) concerns are not as timely as our other comments here, we are obliged to point out to the agency that the draft report would not satisfy 305(b) report requirements. It is arguable if the draft report fulfills any of the requirements of 305(b), but it most certainly does not begin to address parts C (requiring an analysis of the extent to with the elimination of discharges and use support has been achieved and recommendations for how to move to full achievement), D (requiring estimates of the environmental impact, economic and social costs, and economic and social benefits of achieving full compliance as well as an estimated data of achievement), and E (requiring a description of the extent and nature of nonpoint sources of pollution with recommendations for programs to solve those problems and the costs of implementing such programs) of that section of the statute. The agency must address these shortfalls if the draft report is to meet 305(b) obligations.	DEQ is complying with EPA's 2002 Integrated Report Guidance.

AUs	Waterbody Name	Commentor	Comments	Responses
		25	Information must also be provided about priorities for developing TMDLs for newly listed water bodies. Simply saying all newly listed waters are slated for after 2008 does not fulfill the prioritization requirements. The statute states: "The State shall establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters." 33 U.S.C. § 1313(d)(1)(A).	DEQ is working under a settlement Agreement. This Agreement sets a schedule for the development of TMDLs based on Hydrologic Unit, segment, and pollutant through 2007. When DEQ developed and prioritized the schedule, they considered severity of pollution and the uses to be made of such waters. For purposes of TMDL priorities in Section 5 of the Integrated Report, those TMDLs due in 2003 and 2004 are high, 2005-2006 medium, and 2007 and beyond low. DEQ resources are allocated in accordance with this settlement schedule. AUs added to the 2002/2003 Report will be scheduled for TMDL development starting in 2008. This does not mean all the AUs added during this cycle would be done in 2008, merely, they will be scheduled for 2008 and beyond. However, the settlement Agree.ment contains a mechanism for DEQ to complete TMDLs sooner for newly listed waters. In determining whether to assign a higher priority to newly listed waters, DEQ may consider whether resources are available and the local Watershed Advisory Group and Basin Advisory Group for that TMDL are in Agreement. Modifications to the schedule will be done on a case by case basis.
		26	The Draft Report fails to disclose the basis for the 303 and changes from 1998 From our perspective one of the major shortcomings of the Draft Report is the lack of information regarding the basis for listings and delistings. Neither the draft report nor the additional information provided after the comment period (*AUs removed from 1998 303(d) list, 2002 adds*) give any indication of why streams were added or removed.	The basis for all listings and delisting can be found here in the Principles and Policies document. It was an extremely difficult task to create a crosswalk from the 1998 methodology to the 2002 Integrated Report. Neither EPA's Integrated Report Guidance nor the CFRs supporting Section 303(d) of the Clean Water Act require such an accounting. All AUs removed from the 1998 303(d) list were removed for "good cause" analysis and conducted pursuant to WBAGII.

AUs	Waterbody Name	Commentor	Comments	Responses
		26	While they do indicate the support status of beneficial uses, they do not give the results of the WBAG II assessments that, according to the reports, were accomplished. More information regarding the basis for DEQ's conclusions is essential for assessing the scientific integrity of the beneficial use support status and pollutant determinations. Including the scores for the various WBAG indices in the listings and delistings and indicating what other data played a role would be a good start.	WBAG score are now available via DEQ Web site. DEQ has plans to print and or publish these materials for the 2002 Integrated Report or for 2004. The volume and organization of this information dictates it be Web served.
		26	According to the draft report and agency personnel an assessment database (ADB) was created to display all the assessment data. Apparently there were problems with the first version due to the sheer volume of data. A second version (ADB II) is apparently in the process of being created. Will ADB II be available for public review when it is finished?	This understanding is not accurate. ADB2 has been developed for the 2004 Integrated Report. ADB2 will be available through an interactive Web-based mapping tool to display the support status an underlying assessment of every AU. In most cases SMI, SFI, and SHI score will be shown.
		26	We would be very interested in seeing the WBAG II results for streams such as Lightning Creek and its tributaries which were delisted on the basis of WBAG I but then apparently reassessed with WBAG II. The list indicates that all 9 AUs that now comprise Lightning Creek are impaired by temperature but no other pollutants. As we've pointed out in numerous comments on previous 303(d) lists and the WBAG protocols, the Forest Service has acknowledged that Lightning Creek and many other water bodies in the Panhandle Basin are severely impaired (functioning at risk or not functioning) in most cases due to sediment and channel instability. The fact that the WBAG II assessment led to the conclusion that sediment and channel instability are not impairing the beneficial uses in these watersheds is likely indicative of major	Those AUs not added by EPA for Temperature in 1998 were assessed for temperature violations based on outside temperature data provided to DEQ during the 2002 Call for Data, yet no sediment data was provided. WBAG2 assessments are not intended to determine the pollutant or source unless the data indicate a specific WQS violation. In this case there were temperature violations. Therefore, the AU is listed for temperature but not sediment. One cannot draw the conclusion that temperature is the only pollutant until the SBA, but it is the only pollutant DEQ had data to list Lightning Creek at present. See item 16 (Pollutants and Causes) in Principles and Policies Document.

AUs	Waterbody Name	Commentor	Comments	Responses
			deficiencies and that there is still a bias toward full support in the new WBAG.	
		26	Although we have been told repeatedly and the draft report clearly states that the agency is not accepting comments on the listing methodology, it is impossible to separate the list (and the draft report) from the process used to create it. The assessment protocol must, by necessity, be part of the discussion since it is the basis for listing or not listing. Therefore we hereby incorporate by reference our comments on WBAG II, dated May 31, 2002.	Responses to your previous comments can be found in the Response to WBAG2 comments document (http://www.deq.state.id.us/water/surface_water/wbag/WBAG2001_Response_Sec2-Sec3.pdf). Those responses are hereby incorporated in answer to your request.
		26	Looking back at the 1998 list, we find the section titled *Non-303(d) listed Segments found to be Supporting their Beneficial Uses*, which are stream segments for which BURP data was collected between 1993 and 1996 and assessed using WBAGI. The information presented indicates that the segments were determined to fully support their beneficial uses based solely on MBI scores. We would like to request a re-assessment of these stream segments using WBAG II. This would be a good test of WBAG II's ability to discern impairment since some of them (for example, Smith, Callahan (17010104)) are known to be impaired by sediment and/or channel instability. We are concerned that the Non 303(d) listed Segments listed in 1998 have fallen through the cracks in regard to pollutants other than temperature.	This is not a correct understanding of the WBAG1 assessment process. MBI scores were not the sole determining factor of an assessment. Those concerns were answered in the 1998 303(d) package. 1998 assessment calls will not be revisited based on this request. Some 1998 assessment calls are subject to the Settlement Agreement. DEQ is complying with the Settlement Agreement. From the Settlement Agreement, Attachment 2 waters were reevaluated and were present in the draft report. Attachment 3 waters are those that were to be remonitored and then reassessed and are due in the 2004 Integrated Report. Otherwise, all future monitoring and assessments are based on Idaho's Ambient Monitoring Plan (AMP).
		26	Lake Pend Oreille was listed on the 1998 list for total dissolved gas (TDG) and "Unknown." The TDG listing was likely based on data collected by Avista during the Clark Fork dam re-licensing process. The data collected included saturated gas levels that exceeded the Idaho water quality numeric	Concur.

AUs	Waterbody Name	Commentor	Comments	Responses
			standard for TDG below the Cabinet Gorge dam in the Clark Fork River and Lake Pend Oreille. Monitoring of TDG levels continues and TDG levels still exceed the numeric standard (DEQ personnel, pers. conv.). Lake Pend Oreille should be included in Section 5 - *Impaired Waters: Lakes* for TDG.	
		26	There is no information presented in the draft report regarding the Unknown pollutants for which the Lake was listed in 1998. The Tri State Implementation Council has been working on a TMDL for the Lake to address near-shore excessive nutrient levels. Shouldn't the Lake be listed for nutrients?	Concur.
		26	We note that the Clark Fork River is still listed in section 5 for TDG in the AU from Mosquito Creek to the Lake, but not in the AU from the dam to Mosquito Creek. This can't be correct.	This is an NHD related artifact that has been rectified.
		26	Looking back at the 1998 list we find that some segm that were listed for sediment may still be on the list, but no longer are listed for sediment. Examples:17010213: Wellington Creek, East Fork Cr and 17010214: Granite Creek are only listed for Temperature in section 5.	Concur.
		26	On the other hand, some are not in section 5 but are al on the *AUs removed from 1998 303(d)* list recently pr by DEQ. Examples: 17010214: HooDoo Creek was listed for SED and TEMP; Cocolalla Creek was listed for SED and TEMP; Pack River (Lower-Hwy 95 to Lake PO) was listed for BAC, DO, HALT, NUT, PST, SED and Caribou Creek was listed for SED.	HooDoo Creek is in Section 5, listed for sediment and temperature, and is split into to AUs: ID17010214PN003_02 and ID17010214PN003_02a. Cocolalla Creek is in Section 5, listed for sediment and temperature, and is split into to 3 AUs: ID17010214PN014_02, ID17010214PN014_03, and ID17010214PN014_04. Pack River was not listed in 1998 by DEQ but later listed by EPA. Pack River is now split between 3 waterbody Ids (WBID): 031, 039, and 041. Among this unfortunate WBID spilt, the AUs are appropriately segmented as follows:

AUs	Waterbody Name	Commentor	Comments	Responses
				ID17010214PN031_02 (zero miles) (possibly a lake issue) ID17010214PN031_04 ID17010214PN039_02 ID17010214PN039_03 ID17010214PN039_04 ID17010214PN041_02 ID17010214PN041_03 Both the Pend Oreille and Clark Fork TMDLs address these Pack River AUs and propose removing the most of the listed pollutants with TMDLs now only being developed for temperature and sediment. ID17010214PN039_04 incorrectly showed approved Temp TMDL: 04/02/2001 and this has been removed. Caribou Creek ID17010214PN045_02 has an EPA approved sediment TMDL.
		26	please note that HUC 17010213 waters do not appear to be included in section 4A	Corrected.
		26	In any case, waters with approved TMDLs are still impaired and should remain on the 303(d) list until the TMDL has been implemented and monitoring data indicates that they are no longer impaired. We ask that they remain on the list in section 5, with a notation that a TMDL has been approved and indicating the pollutant addressed in the TMDL.	This is one of the positive aspects of tracking by the AU-pollutant combination rather than just the AU. An AU will continue to be listed in Section 5 until all the pollutants have been addressed. Once all the pollutants have been addressed, the AU will be found in Section 4a. The AU will remain in Section 4a (not Section 5) until "the TMDL has been implemented and monitoring data indicates that they are no longer impaired." In the ADB, beneficial uses remain listed as impaired. This is part of the reason that DEQ does not opt to implement the Integrated Report Guidance point for point.

AUs	Waterbody Name	Commentor	Comments	Responses
		26	Also, section 4A indicates that many TMDLs for thermal modification have been completed and approved for many streams, which is not the case. According to DEQ personnel, this is apparently the result of a computer glitch that DEQ will fix.	Correct see above.
		26	According to section 4A the Lower Pack River has an approved sediment TMDL. It should still be listed for the other pollutants BAC, DO, HALT, NUT, PST, as well as SED in section 5.	Both the Pend Oreille and Clark Fork TMDLs address the Pack River and propose removing the most of the listed pollutants with TMDLs now only being developed for temperature and sediment.
		26	We're confident that this is just the "tip of the iceberg" in terms of segments that are wrongly categorized or missing from the 303(d) list, not just in the Panhandle, but state-wide. We assume that mistakes and inconsistencies will have to be corrected before the draft report can be approved by EPA.	DEQ pointed out all of these shortcomings to the commentor and EPA during the public comment process. These issues have been resolved, and, if future issues surface, all parties should now have confidence that any error is truly an oversight and will be addressed properly.
		26	We find that most, if not all, of the newly listed waters are listed for Temp and/or Unknown ("Ukn") pollutants. We assume that the ones listed for Ukn were listed as a result of the BURP/WBAGII protocol. We are dismayed and disappointed that the pollutants were not determined for these streams, for a variety of reasons.	Determining the cause of beneficial use impairment is done in the SBA process. It is useless to guess or infer pollutants. Identifying incorrect pollutants is a monumental waste of state resources. Adding a laundry list of pollutants does not "protect" a waterbody from degradation any more than listing a single pollutant as unknown. DEQ would prefer to involve the WAG and BAG in pollutant and source identification. It is not possible to achieve that prior to a listing at this time; therefore, DEQ takes a conservative route striving to use the best data and science available.

AUs	Waterbody Name	Commentor	Comments	Responses
		26	Our understanding is that new streams on the list will be scheduled for TMDLs after the current schedule is completed in 2008 as required by the consent decree. The Pend Oreille sub-basin was a high priority for TMDL development on the schedule for the1998 list. According to DEQ personnel, the newly listed streams in the Pend Oreille are not high priority. There is no indication what the procedure and timeline will be to assess newly listed waters that are located in sub-basins that have already been assessed. How long will they wait?	Possibly as long as 2008. Not every subbasin can be a high priority all the time. Pend Oreille subbasin was a high priority for TMDL development on the schedule for the1998 list. In that effort, none of the involved parties brought these impaired streams or additional pollutants to the attention of DEQ. Now that the Pend Oreille TMDL has been approved and is being implemented, DEQ must focus on other subbasin that also suffer impairments and were not addressed as resources were focused on the Pend Oreille. Possibly if the pollutants in the Pend Oreille had been listed as unknown and the SBA-TMDL process was not hamstrung by laundry lists of potential pollutants, the TMDL would have addressed the new streams you are now concerned about.
		26	In the meanwhile these streams, even though officially impaired, will have no protection under the Clean Water Act or state water quality standards (WQS). Because no pollutants have been identified, the regulations that disallow further pollution in 303(d) listed waters are rendered moot.	DEQ disagrees. All activities should be screened and some activities such as 401/404 applications are flagged for a higher level of scrutiny before approval or disapproval.
		26	Why is it that DEQ is no longer able to discern the cause of impairment (pollutant(s)) through the assessment process? Now that the WBAG has purportedly been improved, DEQ claims that it is no longer feasible to determine that a stream is choked with sediment or its channel unstable.	This is untrue. The WBAG process was never designed or intended to identify a cause or a pollutant. WBAG is one of the most sensitive and encompassing approaches possible because unlike strict chemical monitoring done in other states, Idaho makes a direct assessment of the aquatic life uses. This is in stark contrast to simply dipping water and not listing streams because a particular constituent did not happen to exceed a given WQS. The small amount of money allocated to the BURP-WBAG2 monitoring and assessment process goes many times farther and is far better at detecting impairment than any chemical monitoring could be.

AUs	Waterbody Name	Commentor	Comments	Responses
		26	Is DEQ reviewing all existing or readily available data in an effort to identify pollutants?	Yes. See WBAG2.
		26	Sand Creek is a prime example of a stream for which there is ample evidence that at least one pollutant of concern has been identified: sediment. Section 5 lists Sand Creek for temperature in the AU below Schweitzer Creek and temperature and Unknown in the AU above Schweitzer Creek.	See next comment. Schweitzer Creek is currently listed for sediment.
		26	The DEQ enforcement file for (lower) Sand Creek indicates there were violations of the suspended sediment standard and that beneficial uses (cold water biota, salmonid spawning, drinking water) were impaired by sediment in Schweitzer Creek and Sand Creek, as a result of a massive road failure on the Schweitzer road in 1991. Lower Sand Creek was later heavily impacted by erosion and stream channel disturbance during the reconstruction of Highway 95 north of Sandpoint. This was documented by both DEQ and the Army Corps of Engineers. According to DEQ personnel, complaints about erosion in Sand Creek and Schweitzer Creek stemming from ongoing construction at Schweitzer Resort have continued over the years. Based on this information, ID17010214PN048_03 Sand Creek from Schweitzer Creek to mouth should be listed for sediment. Also, Schweitzer Creek, ID17010214PN052_02 should be put back on the list for sediment.	DEQ's intention is to monitor Sand Creek further and determine what action to take as the Sediment TMDL is developed for Schweitzer Creek (ID17010214PN052_02) upstream. As Sand Creek is the receiving waterbody, sediment loads from Schweitzer Creek must not impair the beneficial uses of Sand Creek. In order to determine the load allocation and load reductions needed on Schweitzer Creek, the sediment carrying capacity of Sand Creek will be determined. If, in these activities, it is determined that Sand Creek is sediment impaired, the TMDL will be developed concurrently with the Schweitzer Creek work.
ID17050101SW003_04	Browns Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050101SW006_04	Sailor Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050101SW008_03	Deadman Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050101SW012_03a	Little Canyon Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050101SW014_03	Cold Springs Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050101SW016_03	Bennett Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050102SW031_02	Three Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 4a.
ID17050103SW025_03	Corder Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050103SW026_02	Rabbit Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050104SW028_04	Pole Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 4a.
ID17050104SW032_02	Castle Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 4a.
ID17050108SW001_05	Jordan Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050108SW004_04	Jordan Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050108SW014_03	Louisa Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050108SW021_04	Cow Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier I data = FS. Section 2.
ID17050114SW009_02	Tenmile Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	ID17050114SW009_02 will be listed in Section 2.
ID17050114SW009_03	Tenmile Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	ID17050114SW009_03 will be removed from Section 5 for nutrients. DO and sediment will remain on Section 5 because the Modified beneficial use has not been approved by EPA. These pollutants are linked to the Modified beneficial use. Bacteria will be added to Section 5.
ID17050122SW015_03	Bissel Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 4a.
ID17050123SW015_02	Mud Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 4a.
ID17050124SW002_02	Cove Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050124SW005_04	South Crane Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050124SW006_02	North Crane Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17050124SW006_03	North Crane Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17050124SW006_04	North Crane Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Section 5 as in 1998 list.
ID17060205SL014_02	Sheep Trail Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier I data = FS. Section 2.
ID17060205SL015_02	Cub Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier I data = FS. Section 2.
ID17060205SL016_03	Cache Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier I data = FS. Section 2.
ID17060208SL023_05	East Fork South Fork Salmon	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier I data = FS. Section 2.
ID17060208SL025_04	Johnson Creek	27	Was on 1998 303(d) List. Must be moved to Section 5 unless Tier 1 data show full support of Beneficial Uses and no Water Quality Criteria violations.	Tier I data = FS. Section 2.
ID17010301PN005_02	Prichard Creek – source to Butte Creek	27	Should be in Section 5 as impaired by thermal modification and metals. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010301PN005_03	Prichard Creek – source to Butte Creek	27	Should be in Section 5 as impaired by metals	This AU appears in Section 5 for Thermal Modification.
ID17010301PN007_02	Eagle Creek – source to mouth	27	Should be in Section 5 as impaired by metals	This AU appears in Section 5 for Thermal Modification.
ID17010301PN007_03	Eagle Creek – source to mouth	27	Should be in Section 5 as impaired by metals	This AU appears in Section 5 for Thermal Modification.
ID17010301PN008_02	West Fork Eagle Creek – source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010301PN009_03	Lost Creek – source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010301PN020_03	Big Elk Creek – source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010301PN028_03	Steamboat Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010301PN030_02	Little North Fork Coeur d'Alene River - source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010301PN036_02	Burnt Cabin Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification	This AU appears in Section 5 for Thermal Modification.
ID17010301PN039_03	Copper Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification	This AU appears in Section 5 for Thermal Modification.
ID17010302PN001_05	South Fork Coeur d'Alene River- Canyon Creek to mouth	27	Should be in Section 5 as impaired by thermal modification.	This AU appears in Section 5 for Thermal Modification.
ID17010302PN014_02	Canyon Creek – from and including Gorge Gulch to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010302PN016_02	Ninemile Creek – from and including East Fork Ninemile Creek to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010302PN011_03	South Fork Coeur d'Alene River – from and including Daisy Gulch to Canyon Creek	27	Should be in Section 5 as impaired by metals	This AU appears in Section 5 for Thermal Modification.
ID17010303PN002_02	Cougar Creek – source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010303PN004_02	Mica Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010303PN007_06	Coeur d'Alene River – Latour Creek to mouth	27	Should be in Section 5 as impaired by metals. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010303PN015_02	Latour Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010303PN016_06	Coeur d'Alene River – South Fork Coeur d'Alene River to Latour Creek	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010303PN029_03	Wolf Lodge Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.
ID17010303PN031_02	Marie Creek - source to mouth	27	Should be in Section 5 as impaired by thermal modification. Thermal modification was not linked to uses that were being impaired. This has been corrected.	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010104PN004_02	Blue Joe Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN006_03	Cow Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN012_08	Kootenai River	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN015_04	Deep Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN016_03	Snow Creek	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN017_02	Caribou Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN018_04	Deep Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN019_04	Deep Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN022_03	Deep Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN024_04	Dodge Creek	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN027_02	Brown Creek	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN027_03	Brown/Twenty mile Creek	27	3rd order segment is actually Twentymile Creek, 17010104PN028_03; Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN029_08	Kootenai River	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN031_05	Kootenai/Moyie River	27	5th order segment is actually Moyie River, ID17010105PN001_05; Moyie River is listed for sediment, Kootenai River should not be listed for sediment.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN031_08	Kootenai River	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010104PN032_03	Boulder Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN036_03	Flemming Creek	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010104PN040_03	Mission Creek	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010214PN018_02a	Falls Creek	27	Stream site, should not be listed in Section 2 for Lakes	Insure that the reports reflect the changes.
ID17010214PN018L	Pend Oreille Lake	27	Should be in Section 5; with TDG listing carried forward from 1998	Insure that the reports reflect the changes.
ID17010214PN034_02	Gold Creek	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010214PN039_04	Upper Pack River	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010214PN041_02	Upper Pack River	27	Should also be listed in Section 5 for Temperature; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010214PN046_02	Berry Creek	27	Should be in Section 4c; Impaired by flow alteration	Insure that the reports reflect the changes.
ID17010214PN046_03	Berry/Colburn Creek	27	3rd order segment is actually Colburn Creek, ID17010214PN047_03	Insure that the reports reflect the changes.
ID17010214PN052_02	Schweitzer Creek	27	Should be in Section 5; Has turbidity data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010216PN002_08	Pend Oreille River	27	Should be in Section 5; Has TDG and temperature data with exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010302PN015_02	Canyon Creek	27	Should be in Section 5; Has temperature data and exceedances.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN003_08	Clark Fork River- Dam to Mosquito Ck	27	Cause needs to be changed from total toxics to TDG and linked to uses	This AU appears in Section 5 for Thermal Modification.
ID17010213PN005_08	Clark Fork River- Border to Dam	27	Cause needs to be changed from total toxics to TDG and Thermal Modification needs to be added as a cause and both linked to uses	This AU appears in Section 5 for Thermal Modification.
ID17010213PN001_08	Clark Fork River- Mosquito Ck to Delta	27	Add thermal mod as cause and link to uses	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010213PN014_02	East Fork Ck	27	Add Sediment, Qalt, Halt as causes from 1998 list	This AU appears in Section 5 for Thermal Modification.
ID17010213PN014_03	East Fork Ck	27	Add Sediment, Qalt, Halt as causes from 1998 list	This AU appears in Section 5 for Thermal Modification.
ID17010213PN011_02	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN011_04	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN013_02	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN013_04	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN017_02	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN017_03	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN019_02	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN019_03	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN010_04	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN016_02	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010213PN013_03	Lightning Ck	27	Add unknown as cause and link to uses due to excessive streambank destabilization.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN010_02	Santa Ck	27	Add DO as a cause and link to uses (carry fwd from 98)	This AU appears in Section 5 for Thermal Modification.
ID17010304PN010_03	Santa Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN011_03	Charlie Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN012_05	St. Maries River	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010304PN013_03	Tyson Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN014_03	Carpenter Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN018_03	Middle Fork St. Maries River	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN018_04	Middle Fork St. Maries River	27	Add sed (from 1998) and temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN024_03	Renfro Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN025_02	Beaver Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN026_02	Thorn Ck	27	Add temp, sediment and nutrients as causes and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN026_03	Thorn Ck	27	Add sediment and nutrients (from 1998 list) as causes and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN039_02	Fishhook Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN039_03	Fishhook Ck	27	Add temp as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN039_04	Fishhook Ck	27	Added method 200 and comment stating listed for temp in 1998.	Done.
ID17010304PN041_02	St. Joe River	27	Added method 200 and checked habitat and biological categories (4)	Done.
ID17010304PN045_02	Bluff Creek	27	Added method 200 and checked habitat and biological categories (4)	Done.
ID17010304PN045_03	Bluff Creek	27	Added comment stating 98 add for temp and changed cold water ALU to not supporting	This AU appears in Section 5 for Thermal Modification.
ID17010304PN046_02	Mosquito Ck	27	Added comment stating 98 add for temp. Also needs temperature added as a cause and link to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN047_02	Fly Ck	27	Added comment stating 98 add for temperature. Changed cold water ALU to not supporting. Needs temperature added as cause and link to uses.	This AU appears in Section 5 for Thermal Modification.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010304PN048_02	Beaver Ck	27	Added Method 200, added comment stating 98 add for temp	This AU appears in Section 5 for Thermal Modification.
ID17010304PN052_02	Simmons Ck	27	Added comment stating 98 add for temperature, added cold water ALU, not supporting. Needs temperature added as a cause.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN052_03	Simmons Ck	27	Added comment stating 98 add for temperature, added cold water ALU, not supporting. Needs temperature added as a cause.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN053_02	Gold Ck	27	Added method 200	Done.
ID17010304PN060_02	Loop Ck	27	Needs to have sediment and unknown (carried forward from 1998) and temp (98 EPA add) added as causes and linked to uses.	This AU appears in Section 5 for Thermal Modification.
ID17010304PN061_03	N.F. St. Joe River	27	Added method 200	Done.
ID17010304PN062_03	Slate Ck	27	Added method 200 and marked Habitat and Biological categories (4)	Done.
ID17010304PN063_02	Big Ck	27	Added method 200	Done.
ID17010304PN063_03	Big Ck	27	Added method 200	Done.
ID17010104PN0023_0L change to ID17010104PN0023L_0L	McArthur Lake	27		Change ID number of AU to be consistent with Lake convention.
ID17010214PN004_02	Kelso Lake and outlet	27	These are 1st & 2nd order tributaries to Kelso Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN004L_0L (does not exist)	Kelso Lake	27	This would be a new segment.	Create a new Lake segment, 54 acres, and place in Lakes Section 3.
ID17010214PN005_02	Granite Lake	27	These are 1st & 2nd order tributaries to Granite Lake	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN006_02??	Beaver Lake	27	9.78 units. I think these are 1st & 2nd order tributaries to Beaver Lake.	If tributaries, change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN006L_0L (does not exist)	Beaver Lake	27	This would be a new segment.	Create a new Lake segment, 15 acres, and place in Lakes Section 3.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010214PN008_02 & ID17010214PN008_04	Blanchard Lake	27	These are 1st , 2nd & 4th order tributaries to Blanchard Lake.	If tributaries, change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN008L_0L (does not exist)	Blanchard Lake	27	This would be a new segment.	Create a new Lake segment, 136 acres, and place in Lakes Section 3.
ID17010214PN009_02	Spirit Lake	27	These are 1st & 2nd order tributaries to Spirit Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN009L_0L	Spirit Lake	27	Changed to Fully Supporting. Should be in Lakes Section 2.	
ID17010214PN0011_02 & ID17010214PN0011_03	Jewel Lake	27	These are 1st, 2nd & 3rd order tributaries to Jewel Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN0011L_0L (does not exist)	Jewel Lake	27	This would be a new segment.	Create a new Lake segment, 34 acres, and place in Lakes Section 3.
ID17010214PN0012_02	Cocolalla Creek – Cocolalla Lake to mouth	27	Changed Causes to only Siltation	
ID17010214PN0012_04	Cocolalla Creek – Cocolalla Lake to mouth	27		Need to add Siltation as a cause.
ID17010214PN0013_02	Cocolalla Lake	27	These are 1st & 2nd order tributaries to Cocolalla Lake.	Change Type from Lakes to Rivers, and Units to miles. Delete Causes and change Support to Not Assessed. Move to Rivers Section 3.
ID17010214PN0014_03	Cocolalla Creek – source to mouth	27		Need to add Siltation as a cause.
ID17010214PN0015_03	Fish Creek	27		Need to add Siltation and Pathogens as causes.
ID17010214PN0018_02 ID17010214PN0018_02a ID17010214PN0018_02a	Unnamed Falls Creek Boyer Slough	27	1st & 2nd order tributaries to Pend Oreille. Rivers S. 3 1st & 2nd order tributaries to Pend Oreille. Rivers S. 2 1st & 2nd order tributaries to Pend Oreille. Rivers S. 3	Change Type from Lakes to Rivers, and Units to miles. Should be in Rivers Sections to left.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010214PN0019_02 ??	Gamble Lake	27	101.31 units. I think these are 1st & 2nd order tributaries to Gamble Lake.	If tributaries, change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN0019L_0 L (does not exist)	Gamble Lake	27	This would be a new segment.	Create a new Lake segment, 130 acres, and place in Lakes Section 3.
ID17010214PN0020_02 ??	Mirror Lake	27	84.02 units. I think these are 1st & 2nd order tributaries to Mirror Lake.	If tributaries, change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN0020L_0 L (does not exist)	Mirror Lake	27	This would be a new segment.	Create a new Lake segment, 90 acres, and place in Lakes Section 3.
ID17010214PN0040_02 ??	Walsh Lake	27	37.07 units. I think these are 1st & 2nd order tributaries to Walsh Lake.	If tributaries, change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010214PN0040L_0 L (does not exist)	Walsh Lake	27	This would be a new segment.	Create a new Lake segment, 33 acres, and place in Lakes Section 3.
ID17010215PN0001_05	Lower Priest River – Upper West Branch Priest River to mouth	27	Added approved TMDL: should go to Rivers Section 4.	Unknown and Thermal Modification still appear as pollutants.
ID17010215PN0002_03	Big Creek	27	Full Support	Absent in draft Rivers Section 2. Should be there.
ID17010215PN0003_02 ID17010215PN0003_03 ID17010215PN0003_04	Middle Fork East River – source to mouth	27	Added approved TMDLs: should go to Rivers Section 4.	Correct.
ID17010215PN0004_03	North Fork East River – source to mouth	27	Added approved TMDLs: should go to Rivers Section 4.	Correct.
ID17010215PN0006_02	Priest Lake	27	These are 1st & 2nd order tributaries to Priest Lake. Changed to Full Support (Bottle Creek) with justification.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 2.
ID17010215PN0007_02	Chase Lake	27	These are 1st & 2nd order tributaries to Chase Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010215PN0009_02	Hunt Creek	27	Full Support	Absent in draft Rivers Section 2. Should be there.
ID17010215PN0014_04	Priest Lake Thorofare	27	This is a 4th order river to Priest Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010215PN0016_02	Upper Priest Lake	27	These are 1st & 2nd order tributaries to Upper Priest Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010215PN0018_03	Upper Priest River	27	Full Support	Absent in draft Rivers Section 2. Should be there.
ID17010215PN0019_04	Hughes Fork	27	Full Support	Absent in draft Rivers Section 2. Should be there.
ID17010215PN0021_02	Tango Creek	27	Full Support	Absent in draft Rivers Section 2. Should be there.
ID17010215PN0026_02	Binarch Creek	27	Added approved TMDLs: should go to Rivers Section 4.	
ID17010303PN0001_02 ID17010303PN0001_02T	Coeur d'Alene Lake	27	These are 1st & 2nd order tributaries to Coeur d'Alene Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Sections.
ID17010303PN0008_02	Anderson Lake	27	These are 1st & 2nd order tributaries to Anderson Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0009_02	Black Lake	27	These are 1st & 2nd order tributaries to Black Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0009_03	Black Lake	27	Units show zero (0)	Delete segment from data base.
ID17010303PN0009_02T	Lamb Creek within Black Lake	27	Lamb Creek 2nd order is a tributary to Black Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0009_03T	Lamb Creek within Black Lake	27	Lamb Creek 3rd order tributary to Black Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0009L_0L	Black Lake	27	This is OK; this is Black Lake.	OK.
ID17010303PN0010_02 ID17010303PN0010_03 ID17010303PN0010_02T	Medicine Lake	27	These are 1st, 2nd, and 3rd order tributaries to Medicine Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0010_0L create: ID17010303PN0010L_0L	Medicine Lake	27	Medicine Lake itself (988.42 acres) is embedded within the above group of 17010303PN0010_ tributaries.	Pull out of tributary section and create new segment with an ID to the far left.
ID17010303PN0014_02	Bull Run Lake	27	79.07 units. Are these are 1st & 2nd order tributaries to Bull Run Lake?	If tributaries, change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010303PN0014L_0 L (does not exist)	Bull Run Lake	27	Create or renumber ID.	Create ID number of AU to be consistent with Lake convention.
ID17010303PN0021_02	Rose Lake	27	These are 1st & 2nd order tributaries to Rose Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0022_02 ID17010303PN0022_03	Killarney Lake	27	These are 1st, 2nd, and 3rd order tributaries to Killarney Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0023_02	Swan Lake	27	These are 1st & 2nd order tributaries to Swan Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0024_02	Blue Lake	27	These are 1st & 2nd order tributaries to Blue Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010303PN0032_03	Fernan Creek – Fernan Lake to mouth	27	Changed support to Full Support with justification. Should end up in Rivers Section 2.	Appears in Section 2.
ID17010303PN0033_03 change to ID17010303PN0033L_0 L	Fernan Lake	27	Changed support to Full Support with justification. Should end up in Lakes Section 2.	Change ID number of AU to be consistent with Lake convention.
ID17010303PN0034_03	Fernan Creek – source to Fernan Lake	27	Changed support to Full Support with justification. Should end up in Rivers Section 2.	Appears in Section 2.
ID17010304PN0001_02 ID17010304PN0001_02 T	Chatcolet Lake	27	Zero (0) units, Lake tributaries. 4.77 units. 1st & 2nd order tributaries to Chatcolet.	Delete segment. Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010304PN0001L_0 L ID17010304PN0001L_0 LT	Chatcolet Lake	27	0.01 (0) units. OK, keep this segment as is.	Delete segment.
ID17010305PN0005_02	Hayden Lake	27	These are 1st & 2nd order tributaries to Hayden Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010305PN0005L_0 L	Hayden Lake	27	Changed causes to only Nutrients.	
ID17010305PN0010_03	Hayden Creek	27	Changed from Not Full Support to Not Assessed. Should end up in Rivers Section 3.	

AUs	Waterbody Name	Commentor	Comments	Responses
ID17010305PN0012_03	Rathdrum Creek	27	Changed to Full Support with justification. Should end up in Rivers Section 2.	
ID17010305PN0013_02	Twin Lakes	27	These are 1st & 2nd order tributaries to Twin Lakes.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010305PN0013L_0L	Twin Lakes	27	Changed causes to only Nutrients.	
ID17010305PN0014_02	Fish Creek	27	Changed causes to only Thermal.	
ID17010305PN0016_02	Hauser Lake	27	These are 1st & 2nd order tributaries to Hauser Lake.	Change Type from Lakes to Rivers, and Units to miles. Move to Rivers Section 3.
ID17010305PN0016L_0L	Hauser Lake	27	Changed causes to only Nutrients.	

Appendix A.

Summary of DEQ's Proposed 303(d) Action's Regarding Water Temperature

Summary of DEQ's Proposed 303(d) Action's Regarding Water Temperature

Listed below are selected waters in Idaho that the Department of Environmental Quality (DEQ) has determined should be removed from the current 303(d) list, or not listed, for temperature as a pollutant. Reason's for delisting or not listing include:

1) Data quality did not meet minimums in Idaho's Waterbody Assessment Guidance II, i.e. more than a single grab sample temperature measurement is needed to judge impairment;

2) Frequency of exceedance less than assessment threshold, Idaho's WBAGII allows up to 10% exceedance of certain numeric criteria, including temperature, if the bio-assessment indicators are good;

3) Idaho WQS natural background provisions, and allowable de-minimus T increase of 0.3°C are met;

DEQ's proposed action varies depending on whether a water is currently listed or not, and whether there are other causes of impairment, which would cause a water to be listed, though not for temperature. The following three tables organize the selected waters by the type of action taken, and list the applicable reasons enumerated above.

Table 1. Waters in Idaho currently listed for temperature for which that Idaho proposes temperature be dropped as a pollutant either because; 1) the temperature data used for listing was insufficient, or 2) the human caused impairment is below allowable temperature increase. Since these waters are only listed for temperature they should be removed from the 303(d) list.

Stream name	WBID	On 1998 303(d) List (Yes/No)	Listing Data Source	Reason for Removing Temperature from listing
Worm Creek	16010202BR005	Yes	DEQ	Data quality, single temperature measurement
Santa Creek	17010304PN010	Yes	DEQ	Data quality, single temperature measurement
Hot Creek	17040213SK012	Yes	DEQ	Data quality, single temperature measurement
Lochsa River	17060303CL001,003,008,008,013,020	Yes	USFS	Less than de-minimus increase, HDR Modeling Report

Table 2. Waters in Idaho currently 303(d) listed which Idaho proposes be removed from the list because there are no human causes of impairment.

Stream name	WBID	On 1998 303(d) List (Yes/No)	Listing Data Source(s)	Reason for Delisting
Boulder Creek	17060303CL010	Yes	USFS	apriori natural
Fish Creek	17060303CL052…057	Yes	USFS	apriori natural
Holly Creek	17060303CL009	Yes	USFS	apriori natural

Stream name	WBID	On 1998 303(d) List (Yes/No)	Listing Data Source(s)	Reason for Delisting
Storm Creek	17060303CL032	Yes	USFS	apriori natural
Smithie Fork	17040217SK017	Yes	USFS, DEQ	apriori natural

Table 3. Waters in Idaho that were considered for 303(d) listing but were not listed.

Stream name	WBID	On 1998 303(d) List (Yes/No)	Data Source(s)	Reason for Not Listing
Running Creek	17060301CL008 … 012	No	DEQ	apriori natural, less than 10% exceedance
Bear Creek	17060301CL047 … 055	No	DEQ, USGS	apriori natural
Moose Creek	17060302CL026 ... 047	No	DEQ, USGS	apriori natural
Selway River	17060301CL001,004,014,022 & 17060302CL001, 006,022	No	DEQ, USFS	apriori natural, less than 10% exceedance
Indian Cr	17060205SL006	No	DEQ	apriori natural, less than 10% exceedance
Big Creek	17060206SL003 … 016	No	DEQ	apriori natural, less than 10% exceedance
MF Salmon	17060205SL001 17060206SL001	No	DEQ, USFS	apriori natural, less than 10% exceedance

The above three lists are not comprehensive. They are a selection of waters that have been chosen because they qualify for one or more reason as not known to be impaired for temperature. Idaho reserve's the right to propose additional waters be removed from the 303(d) list, or not listed, for these reasons in the future.

Attached are several support documents:

A) Report by HDR on modeling of water temperatures in the Lochsa River.

B) Spreadsheet summarizing information on the limited extent of human activity in watersheds identified as a priori natural.

C) Maps of watersheds identified as a priori natural.

D) Summaries of temperature data showing less than 10% exceedance of Idaho's cold water aquatic life criteria.

State of Idaho
Department of Environmental Quality
Contract # C046

Final Report

Water Temperature of The Lochsa River and Selected Tributaries

Prepared by: HDR Engineering, Inc.
418 South 9th Street, Suite 301
Boise, Idaho 83702
(208) 342-3779

July 23, 2002

Mr. Don Essig
Idaho Department of Environmental Quality
1410 N. Hilton
Boise, Idaho 83706

Subject: Water Temperature Model for the Lochsa River and Selected Tributaries (QRP00023) – Final Report

Dear Mr. Essig:

Enclosed is the Water Temperature Model for the Lochsa River and Selected Tributaries Report. It was a pleasure to work with you on this project. We believe the results of the modeling effort and subsequent analysis contribute much to the understanding of the Lochsa River watershed.

We sincerely appreciate your input and support during all phases of this project. We look forward to working with you again in the near future. Please feel free to call us if you have any questions at (208) 342-3779.

Sincerely,

HDR Engineering, Inc.

Jason Kent

Jason Kent, PE
Project Manager

Enclosures

Cc: David L. Clark, HDR Engineering, Inc.

Lochsa River Temperature Model

Prepared for

Idaho Department of Environmental Quality

Prepared by

HDR Engineering, Inc.

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Boise, Idaho 83702

July 23, 2002

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Cover Photo: J. Fellos, HDR Engineering - 2000. Lochsa River.

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Acknowledgements

This study was made possible by the collaborative effort of several engineers, researchers and scientists throughout Idaho and the west. Don Essig, project manager for the Idaho Department of Environmental Quality, provided insightful technical review commentary and guidance throughout the project. Thanks to Matt Boyd, Oregon Department of Environmental Quality, and Stillwater Sciences for their assistance during the model selection process. We extend gratitude to the Clearwater National Forest staff, including Dick Jones, Bill Wulf, Dave Schoen, Pat Murphy, and Ed Lozar, who were indispensable during the data acquisition process. Also helpful in data acquisition were Don Essig, Tad Fickel of IRZ Consulting, and Clearwater BioStudies, Inc. Thanks to Bill Wulf and Don Essig for their reviews of the methods and analysis.

Executive Summary

The Lochsa River is located in the Clearwater National Forest in north central Idaho. It is formed by the confluence of the Crooked Fork and White Sand Creek. The river flows east-northeast to west-southwest through approximately 70 river miles of forested mountain and canyon terrain. Water temperatures at the mouth of the Lochsa River (near its confluence with the Selway River) at times exceeds Idaho cold water biota (CWB) maximum daily temperature criteria of 19°C average and 22°C instantaneous, or maximum daily high. For this reason, the Lochsa River was placed on Idaho's 303(d) list of water quality-impaired waters.

An assessment of water quality in the Lochsa watershed by Idaho Department of Environmental Quality (IDEQ) (Bugosh 1999) concluded that current summer temperatures in the Lochsa were not different from historic temperatures observed in the late 1950's prior to substantial anthropogenic, or human-caused, disturbance. Thus, the above-criteria temperatures were deemed a "natural condition" and not an impairment of water quality. This led DEQ to propose the removal of the Lochsa River from the 303(d) list. This conclusion was not accepted by the U.S. Environmental Protection Agency (EPA) in their oversight role. It is for this reason that a water temperature modeling study was initiated on the Lochsa River.

The objectives of the Lochsa River Modeling Project were as follows:

- Develop a model that simulates historic daily average and maximum water temperatures in the Lochsa River and select tributaries during the summer months based on measured data.
- Apply the model to simulate the system under a range of scenarios for the purpose of understanding heat loading in the Lochsa River.

Water temperatures were to be modeled for the summer months of July and August for 1994, 1997, and 1998. These years were selected because of their range in hydrologic conditions: 1997 registered the second highest flow on record, while 1994 registered the sixth lowest flow on record. The year 1998 was an average flow year. The year 1998 was also selected because copious water temperature and flow data were collected during the summer months.

Model simulated temperature output was sought throughout the length of the Lochsa River, but specifically at Lowell, Idaho, Split Creek Packbridge, Wilderness Gateway, Eagle Mountain Packbridge, Mocus Point Packbridge, Jerry Johnson Packbridge, and Powell Ranger Station. In addition, temperature output was requested at the mouths of the modeled tributaries: Crooked Fork, White Sand Creek, Deadman Creek, and Canyon Creek.

Existing peer-reviewed temperature and water quality modeling programs were evaluated for their application to the Lochsa River Temperature Modeling Project. The candidate models were evaluated considering capabilities, limitations, input data requirements, minimum and maximum temperature predictions, applicability to the modeling project, and acceptance in the modeling community. Based on the characteristics of the candidate models and the selection criteria, the SNTEMP program was selected.

Two system models were developed: a model for 1997-1998 (high flow and average flow, respectively) and one for 1994 (low flow). The model was first calibrated to mean daily water temperatures, and then calibrated to maximum daily water temperatures through adjustment of appropriate process variables.

After the temperature models were calibrated and validated, a single-parameter sensitivity analysis (Chapra 1997) was performed to identify key input variables in the model. It was found that air temperature, inflow temperature, and incoming solar radiation, respectively, were the three variables to which the average temperature model was most

sensitive. Incoming solar radiation, air temperature, and inflow temperature were the three variables that most influenced maximum temperature, respectively. In the SNTEMP model, inflow temperature and air temperature can be directly changed by the user, while solar radiation is an internal parameter affected by several input variables.

Several model runs were performed to simulate alternate scenarios. As a result of these simulations, it was found that water temperatures did not meet Idaho CWB temperature criteria throughout the Lochsa River on the 90th percentile air temperature day. Increasing riparian vegetative shading to full potential would decrease Lochsa River daily average water temperature by as much as 1.35°C, not enough to meet Idaho CWB temperature criteria at Lowell, near the mouth of the river. Alternately, the water temperature of all tributaries to the Lochsa River would have to be reduced by more than 8°C to meet Idaho CWB temperature criteria. This scenario is not particularly reasonable, as many of the tributaries to the Lochsa River drain wilderness areas or unmanaged watersheds, and an 8°C decrease in water temperature is likely not physically possible in these areas.

Since the Lochsa River is an unregulated stream with little disturbance other than State Highway 12 and modest timber harvest over the past 45 years, the reduction in shade provided by riparian canopy cover is the primary disturbance likely to increase water temperature. Thus, the question to be answered was "what fraction of the departure between current canopy conditions and full potential canopy in the riparian zone is due to natural disturbances, and what fraction is due to human disturbances?" The question was investigated by quantifying the difference in riparian canopy conditions for stands of trees that are undisturbed or have natural changes and those that have human-caused changes. The SNTEMP model was used to determine the difference in stream temperatures that may then be attributed to human activity.

It was found that between 75% and 97% of the difference in water temperature between the existing and full potential canopy cover conditions in the Lochsa River basin is due to natural disturbances. While human-caused disturbances increase water temperatures in the basin, natural disturbances are a more dominant factor in the difference between existing condition and full potential canopy cover water temperatures.

Introduction

The Lochsa River is located in the Clearwater National Forest in north central Idaho (Figure 1). It is formed by the confluence of the Crooked Fork and White Sand Creek (aka Colt Killed Creek). The river flows east-northeast to west-southwest through approximately 70 river miles of forested mountain and canyon terrain (Figure 2). Several small tributaries flow into the Lochsa River, including Canyon Creek and Deadman Creek. At the River's mouth near the town of Lowell, Idaho, the Lochsa River merges with the Selway River to create the Middle Fork of the Clearwater River.

Data collected by federal and state resource agencies and private companies were used to build a historical temperature model for the Lochsa River. The data used include meteorological data, stream geometry, stream and watershed hydrology, local topography, and vegetation data. The model was built to predict average and maximum daily water temperature throughout the Lochsa River and four tributaries, Crooked Fork, White Sand Creek, Deadman Creek, and Canyon Creek, for the mid-summer months of July and August of 1994, 1997, and 1998.

The years to be modeled were selected because of their range in hydrologic extremes: 1997 registered the second highest flow on record, while 1994 registered the sixth lowest flow on record. 1998 was considered an average flow year. 1998 was also selected because copious water temperature and flow data were collected during the summer months.

Model Selection

Evaluation of Existing Programs
Existing peer-reviewed temperature and water quality models were evaluated for their application to the Lochsa River Temperature Modeling Project. Each model's capabilities and limitations, along with an assessment of each, are shown in Table 1.

The candidate models were evaluated considering capabilities, limitations, input data requirements, minimum and maximum temperature predictions, applicability to the modeling project, and acceptance in the modeling community. A brief description of each of the candidate models follows.

SNTEMP

SNTEMP and its companion program, SSTEMP, model temperatures in a stream as a function of hydrologic conditions, riparian and topographic shading, and meteorological conditions. The one-dimensional model assumes steady flow, complete mixing, and requires daily means for input variables. SNTEMP is a stream network model with a spatial grid as fine as 100 meters, while SSTEMP is a simplistic version of SNTEMP that can assess conditions for a single stream reach in a single time period. Both models call upon output from companion programs, SSSOLAR and SSSHADE, to provide data on short-wave radiation and shading percentages. Both SNTEMP and SSTEMP have text interfaces and are public domain models.

SNTEMP and its associated models were developed by the U. S. Fish and Wildlife Service's Instream Flow Group. This group subsequently became the U.S. Geological Survey—Mid-Continent Ecological Science Center (USGS-MESC). The USGS-MESC website (www.mesc.usgs.gov) provides the models for free download and also provides technical support.

Heat Source

Heat Source was developed as part of a Masters thesis at Oregon State University, and is currently supported by the Oregon Department of Environmental Quality (ODEQ). It is an energy-based finite difference temperature model with heavy reliance on geographic information system (GIS)-based input. Heat Source has fine internal spatial and temporal scales (100 ft, 1 minute) and is suitable for a reach scale of analysis. The model involves a wide variety of atmospheric, solar, and stream reach parameters. It has a spreadsheet-based user interface and is public domain, available on CD from ODEQ.

Figure 1. Project Vicinity Map

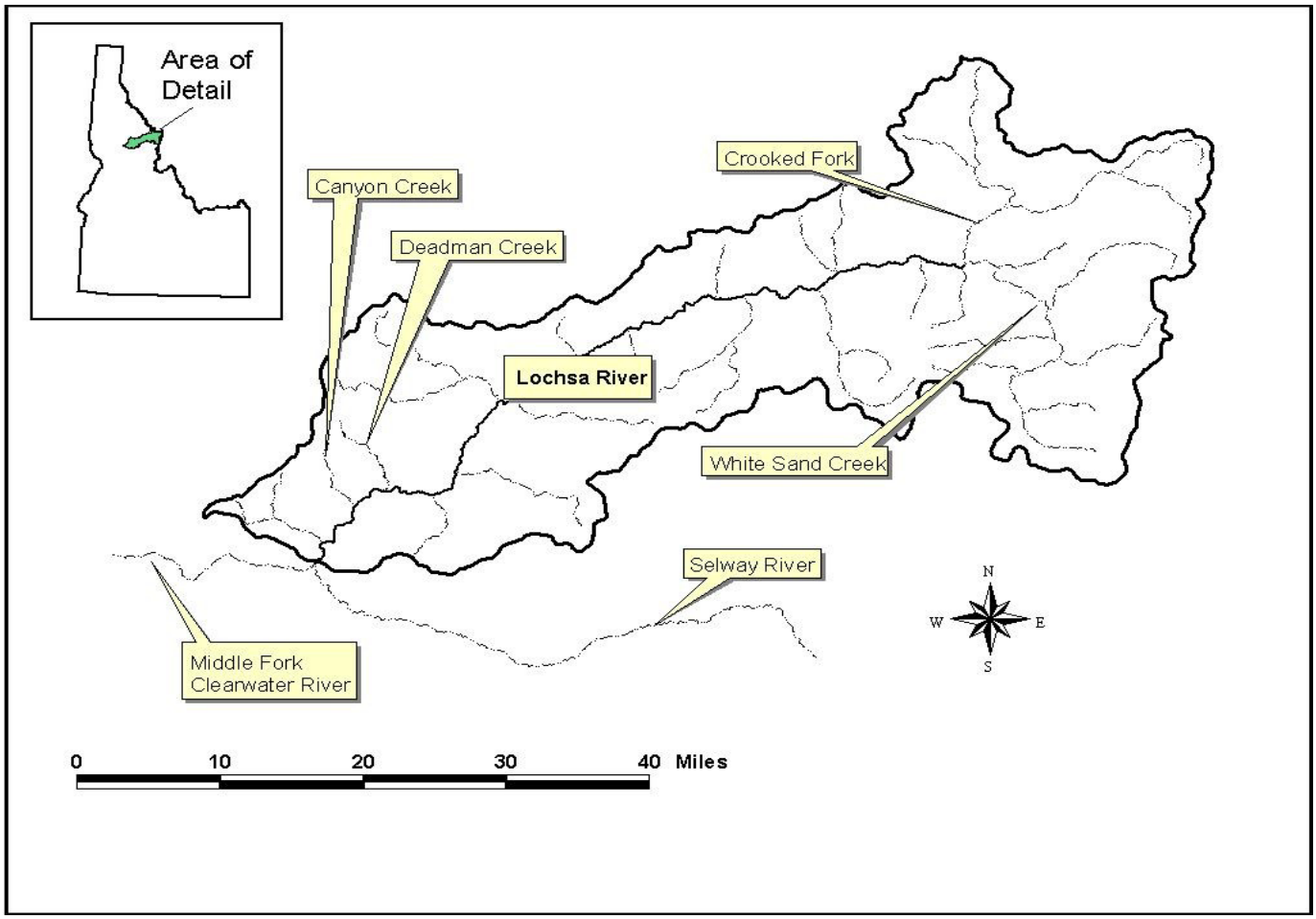


Figure 2. Photograph of Lochsa River

Model	Strengths	Weaknesses	Timestep	Applicability to Lochsa River Project	Criteria					
Process-Based Temperature Models					Mean/Max T	Network capability	Input parameters	Shading	Ease of use	Accepted
SNTEMP	Stream network model. Considers latitude and time of year, predicts topographic and riparian shading, and corrects climate data as function of elevation.	Uses algorithm to predict daily max. temps based on daily average temps. Cannot handle rapidly varying flows	daily	Applicable to project. Model known to Idaho DEQ and EPA, Public domain model. Good support network in place.	Only mean is directly calculated	Yes	Data-driven	Yes	Users manual, self-directed study, technical support	Peer-reviewed, widely used
Heat Source	Flexible time step model. Relies on Arc View for topographic input. Very fine temporal and spatial scale.	Not suited for a stream network application. Data-intensive model. Limitations in groundwater mixing and canopy density. Limited model support.	flexible	New technology, generally getting good reviews. Model familiar to Oregon DEQ but has limited project application outside of Oregon. Possibly applicable to project. Decribed by developer as a very data-intensive model. Public domain.	Calculates instantaneous temperatures for timestep	No	Heavily data-driven	Yes	Requires large amounts of data, little support	Minimally peer-reviewed, not used outside of Oregon
BasinTemp	Steady state, 1-D, GIS-linked model. Requires little collected data.	Assumes no cloud cover and does not use relative humidity data. Assumes linear relationship between mean and max. temps. Not suited for stream networks. Simplest model.	daily	New technology with limited feedback on use. May be too simplistic for this project due to its non-reliance on collected data. Proprietary model, work must be done by vendor (with associated cost).	Only mean is directly calculated	Yes	GIS-driven, requires minimum of field data	Yes	Model must be operated by Stillwater Sciences	Not peer-reviewed, new technology
Hybrid Combination Model Approaches										
SNTEMP / Heat Source	Advantages of modeling mean temperatures for July/August, and investigating maximum temperatures and diurnal changes during a period of interest.	Each node to describe multiplies the effort for setting up the Heat Source model. Requires that two distinct models be developed.	daily / flexible	Advantages of mean daily averages in the stream network, as well as maximum temps and diurnal changes in chosen segments.	See above	See above	See above	Yes	See above	See above
SNTEMP / SSTEMP	Can re-calculate maximum water temperature in a segment of interest using maximum values for air temperature	Does not directly calculate maximum temperature and cannot describe diurnal fluctuations.	daily	Each model can be calibrated to better represent maximum daily temperatures by adjustment of 3 or 4 empirical coefficients.	See above	See above	See above	Yes	See above	See above
2 calibrated SNTEMP models	Same as SNTEMP, with added value of a model calibrated to observed daily maximum temperatures.	While it is both feasible and acceptable, calibrating to maximum temperatures is not a typical operating procedure.	daily	Having two calibrated models increases the level of accuracy of the analysis. How well the maximum temperature model will calibrate is an unknown factor at this point. This option satisfies all project criteria.	See above	See above	See above	Yes	See above	See above
Multi-Constituent Water Quality Models										
CE-QUAL-W2	Flexible time step, 2-dimensional model that includes water quality parameters.	Simple shading function included in model. Extensive data requirements.	flexible	Powerful water quality model. Version 3.0 applicable to river systems. May be too sophisticated for economical application to project. Public domain model.	Calculates instantaneous temperatures for timestep	Yes	Data-driven	Simple short-wave solar radiation algorithm	Complicated model, little support	Peer-reviewed, widely used
CE-QUAL-RIV1	Flexible time step, 1-dimensional, steady and unsteady flow model with water quality parameters.	Hydrodynamics not linked with temperature.	flexible	May be applicable to project. Public domain model.	Calculates instantaneous temperatures for timestep	Yes	Data-driven	No	Complicated model, little support	Peer-reviewed
RMA-11	Inclusion of water quality parameters, 1-, 2- and 3-dimensional simulation, steady or unsteady flow, short timesteps	No shading included in model. Extensive data requirements. A 30-minute timestep is considered "relatively long".	flexible	Complex hydrodynamic and water quality model, may be too sophisticated for project. Proprietary model with prohibitative cost.	Calculates instantaneous temperatures for timestep	Yes	Data-driven	No	Complicated model, little support	Peer-reviewed
MIKE-11	Flexible time step, option of simplified or complete heat calculations, GIS-capable, stream network capable	Extensive data requirements.	flexible	Powerful hydrodynamic and water quality model. May be too sophisticated for economical application to project. Proprietary model with prohibitative cost.	Calculates instantaneous temperatures for timestep	Yes	Data-driven	Yes	Complicated model, e-mail support	Peer-reviewed

Table 1. Lochsa River Temperature Model Selection Matrix

BasinTemp

BasinTemp, developed by Stillwater Sciences, is a simple, one-dimensional, steady-state, network scale mechanistic temperature model, whose strength lies in its non-reliance on field-based data. As such, it is heavily reliant on GIS-based input data. It utilizes daily average input data to produce estimates of daily average water temperature and uses linear relationships to estimate daily maximum temperatures. It requires a minimum of atmospheric, flow, and water temperature data. It has a variable spatial network scale, allowing a network as fine as 30 meters. BasinTemp is a proprietary model that is not available to the general public at this time. All input data must be sent to Stillwater Sciences for model operation.

CE-QUAL-W2

CE-QUAL-W2 is a two-dimensional, laterally-averaged, hydrodynamic and water quality model that has been used to model over 200 waterbodies, including rivers, lakes, reservoirs, and estuaries. The model simulates temperature, dissolved oxygen (DO), the nitrogen, phosphorus, and organic carbon cycles, and up to three types of algae. It predicts instantaneous temperatures in a variable spatial scale within a user-defined temporal scale, which must be converted to average and maximum temperatures using post-modeling analysis techniques. CE-QUAL-W2 is modular in nature, such that water temperature can be modeled with or without the interactions of other constituents. CE-QUAL-W2, developed by the U.S. Army Corps of Engineers—Waterways Experiment Station (USACE—WES), is a network-scale, public domain program and has both text and Windows input user interfaces. Output is currently text files with a Windows interface scheduled for release later this year.

CE-QUAL-RIV1

The Hydrodynamic and Water Quality Model for Streams (CE-QUAL-RIV1) is a one-dimensional, network-scale, unsteady flow model capable of dynamic simulations. CE-QUAL-RIV1 was developed by USACE—WES to simulate transient water quality conditions associated with highly unsteady flow conditions that occur in regulated rivers. CE-QUAL-RIV1 allows simulation of rivers with multiple hydraulic control structures, such as run-of-the-river dams, waterway locks and dams, and regulation dams. The hydraulic model component requires that river geometry and boundary conditions are defined in order to perform hydraulic computations. CE-QUAL-RIV1 can simulate temperature, salinity, biological oxygen demand (BOD)-DO, the nitrogen and phosphorus cycles, phytoplankton in the water column, benthic algae, macrophytes, and bacteria. It predicts instantaneous temperatures in a variable spatial scale within a user-defined temporal scale, which must be converted to average and maximum temperatures using post-modeling analysis techniques. CE-QUAL-RIV1 has a text user interface and is a public domain program.

RMA-11

RMA-11, developed by Resource Management Associates, is a stream network scale finite element model for the one-, two-, or three-dimensional simulation of water quality in rivers, estuaries, and groundwater systems. This proprietary software was originally developed as the public domain model RMA-4 for the USACE. Its constituents include temperature, DO, the nitrogen and phosphorus cycles, algal growth and decay, and suspended sediments. RMA-11 is modular in nature, such that water temperature can be modeled with or without the interactions of other constituents. The user interface is DOS-based, and incorporates ASCII text files for data input. RMA-11 is a sophisticated proprietary model that is relatively expensive compared to the public domain models.

MIKE-11

The MIKE-11 model is proprietary software commercially available from DHI, Inc., formerly known as the Danish Hydraulic Institute. MIKE-11 allows dynamic water quality simulations and has a Windows user interface. It is a one-dimensional stream

network model capable of simulating water temperature and the nitrogen and phosphorus cycles, and is modular in nature, such that water temperature can be modeled with or without the interactions of other constituents. It predicts instantaneous temperatures in a variable spatial scale within a user-defined temporal scale, which must be converted to average and maximum temperatures using post-modeling analysis techniques. This is also a sophisticated model that is relatively expensive compared to the public domain models.

Hybrid Model Combinations

The use of combined models was considered in order to meet multiple project objectives. These objectives include analysis of both average and peak water temperatures. Also desired was the ability to model a stream network, as well as individual reaches. Evaluation of the candidate models indicated that no single model was capable of meeting all of these objectives. The use of two models provided the potential to combine the strengths of two tools to provide the capabilities required.

Three hybrid combination model options are summarized in Table 1. Combining SNTEMP with other models was considered, since SNTEMP appears to best meet most project objectives, including simulation of average temperatures in a stream network model, direct simulation of the effect of shade on water temperature, being peer-reviewed and in the public domain, utilizing field data-driven input parameters, and having good documentation and technical support. Combining Heat Source with SNTEMP adds an ability to simulate diurnal variations in temperature. The drawback to this approach is the added complexity involved in developing two distinct models, both Heat Source and SNTEMP. Combining SSTEMP with SNTEMP links two companion models with similar input data. The stream segment model SSTEMP provides the ability to simulate maximum temperatures in a given stream reach but not diurnal variations. Alternately, a pair of SNTEMP network models calibrated first to average water temperatures, and then to maximum temperatures, may provide a better approach. The potential drawback to this approach is that calibration of maximum daily water temperatures is empirical and its suitability is unknown.

Summary of Model Features Required for Lochsa River Modeling Project

The candidate models were assessed for the Lochsa River Modeling Project based on the following criteria:

- Prediction of mean and maximum water temperatures
- River network capability
- Availability and requirements of input parameters
- Ease of use
- Peer reviewed and utilized within the scientific community

Each of these criteria is described in the following paragraphs.

Prediction of Mean and Maximum Water Temperatures

The selected model should simulate mean and maximum water temperatures at a minimum of a daily temporal scale, with a diurnal range, if possible. The selected model should simulate temperatures at several locations in the stream network.

River Network Capability

The selected model should simulate the entire Lochsa River from its headwaters to its mouth on a network scale. The stream network includes several tributaries that must be modeled as well, and the output from those tributaries is to be modeled as input to the Lochsa River at the same temporal scale.

Availability and Requirements of Input Parameters

Idaho Department of Environmental Quality (IDEQ) and the U.S. Forest Service (USFS) have collected data for several input parameters for use in the selected water

temperature model. The selected model should take advantage of these data, as one of the purposes of the project is to utilize a peer-reviewed model to produce a calibrated process-based water temperature model based on collected data from the Lochsa River basin.

Ease of Use

The selected model should be suitable for operation by HDR Engineering, Inc. and IDEQ and should not require an inordinate amount of time for data collection or data entry. The output from the model should be exportable to a spreadsheet or database program for easy processing and reporting. In addition, documentation for the selected model should be easy to follow and technical support should be reasonably accessible.

Peer Review and Utilization of Model Within the Scientific Community

The selected model should be peer-reviewed and utilized within the scientific community.

Model Selection and Recommendation

Based on the characteristics of the candidate models and the selection criteria described above, the HDR-IDEQ team selected SNTEMP for the Lochsa River Modeling Project. The SNTEMP model was calibrated to mean daily water temperatures, and then calibrated to maximum daily water temperatures through adjustment of appropriate process variables. Based on calibration and validation performance, two models were developed: one for 1997-1998 and one for 1994. This is discussed in greater depth in the Calibration and Validation section of this report.

SNTEMP was selected based on several characteristics, including its technical capabilities, applicability to the project, the stream network component of the program, existing support network, and availability as a public domain program. SNTEMP's main shortcoming is its use of an algorithm to determine maximum water temperatures instead of calculating them directly. The equation used in SNTEMP to determine maximum water temperatures is as follows:

$$T_{\max} = T_e - \left[\left(T_e - T_{avg}\right)^{\left[-(k_x t_x)/(\rho c_p d)\right]}\right]$$

Where:

T_{max} = Average maximum daytime water temperature (at sunset) at point of interest

T_e = equilibrium water temperature for average daytime conditions

T_{avg} = average daily water temperature at travel time distance upstream from point of interest

k_x = first order thermal exchange coefficient for daytime conditions

t_x = travel time from noon to sunset

ρ = density of water

c_p = specific heat of water

d = average flow depth

Other algorithms are used to determine equilibrium water temperature, average daily water temperature, travel time, and average depth. The maximum daily temperature model was calibrated to better predict the estimated maximum water temperature by re-estimation of appropriate empirical coefficients.

Model Structure

The SNTEMP model utilizes six input files that include measured data and two system control files, as described below:

Study File

The study file includes the locations and types of nodes that define the stream network system, as well as locations in the network where output is required.

Geometry File

The geometry file provides a network definition of the modeled streams, the site location and the stream geometry (e.g. channel width, depth, and gradient).

Shade File
The shade file includes data for parameters that contribute to the shading of the stream due to topographic and vegetative conditions.

Time Period Data File
This file is primarily used by SNTEMP as a system file but includes two parameters that are used in the determination of incoming solar radiation: the dust coefficient and ground reflectivity.

Meteorology Data File
The meteorology data file includes all remaining meteorological data for the study reach for each day in the study period.

Hydrology Data File
The hydrology data file provides the mean daily stream flows and temperatures for the modeled streams and all tributaries to the stream network for each day in the study period.

Hydrology Node File
The hydrology node file contains information needed by the program on where hydrology data are required. No input data are included in this file.

Job Control File
The job control file contains information required by the program that defines the size of the network, the extent of output desired, years of data simulated, node counts, calibration factors, and file names. No input data are included in this file.

Input Data

The sources of the data that were acquired vary. Much of the measured data were furnished by the Clearwater National Forest. Most of these data came in electronic formats. Additional data used in the model were obtained from IDEQ, the USGS, Clearwater BioStudies, Inc., and the Tennessee Valley Authority (TVA).

The acquisition of the required measured data is described in Table 2. In addition, data reduction for collected data of key parameters are described in more detail in the sections that follow.

Study File—Segmentation
The SNTEMP model requires segmentation of the river network based on the following features and requirements:

- Required temperature output locations
- Confluences with certain tributaries with measured temperature data
- Locations of measured temperature data in the mainstem of the River
- Major changes in gradient
- Major changes in stream orientation
- Major changes in stream width

The Lochsa River temperature model segmentation is shown in Figure 3.

Shade File—Vegetation Parameters

East/West Crown Measurement

Used for determining vegetative shading, this parameter is defined as the average maximum diameter of the shade-producing strata of vegetation along the stream.

A crown diameter of 10 meters was assumed for all segments in the SNTEMP model. No data are available that are specific to the study area.

East/West Vegetation Height

Used for determining vegetative shading, this parameter is the average height of the shade-producing strata of vegetation, measured from the water surface. Average height of trees data were taken from a GIS database provided by Clearwater National Forest. The GIS data recorded average values of stand height and stand crown closure, a measure of density, for each distinct stand in the Clearwater National Forest. Data for the stands that were directly adjacent to the streams of interest were collected, along with a weighting factor based on the relative length the stream. An average

Table 2. Data Collection Sources

Data File	Parameter	Data Source	Adjusted in calibration?
Study File	Segmentation	GIS software and USGS 7.5-minute maps—see text	No
Geometry File	Latitude, Elevation, Azimuth	GIS software and USGS 7.5-minute maps	No
	Manning's n	Clearwater BioStudies reports (Rosgen 1994)	No
	Width	Clearwater BioStudies reports	Yes
	Ground temperature	System default to mean annual air temperature	No
	Streambed thermal gradient	System default	No
Shade File	Latitude, Azimuth	See above	No
	Width	See above	Yes
	East/west topographic altitude	GIS software	No
	East/west crown measurement	Data not available specific to study area—see text	No
	East/west vegetation height	Clearwater National Forest's Timber Stand Management Record System—see text	No
	East/west vegetation offset	Aerial photography and digital aerial infrared imagery—see text	No
	East/west vegetation density	Clearwater National Forest's Timber Stand Management Record System—see text	No
Time Period File	Dust coefficient	Suggested values in User's Manual (Theurer et al. 1984)—TVA (1972)	No
	Ground reflectivity	Suggested values in User's Manual (Theurer et al. 1984)—TVA (1972)	No
Meteorology File	Meteorology station latitude and elevation	Remote Automated Weather Stations (RAWS) located at Powell and Lowell—see text	No
	Annual air temperature	Meteorological station located at Fenn Ranger Station	No
	Time period mean air temperature	RAWS located at Powell and Lowell	Yes
	Time period mean wind speed	RAWS located at Powell and Lowell	Yes
	Time period relative humidity	RAWS located at Powell and Lowell	Yes
	Time period percent sunshine	Meteorological station located at Missoula, Montana airport	No
	Observed ground level solar radiation	Not used	N/A
Hydrology Data File	Time period discharge and water temperature	USGS gage data, USFS gages and temperature monitors. See text	Yes
	Lateral inflow water temperature	System default to mean annual air temperature	Yes
	Reservoir inflow temperature	Not used	N/A
Hydrology Node File	None	N/A	N/A
Job Control File	None	N/A	N/A

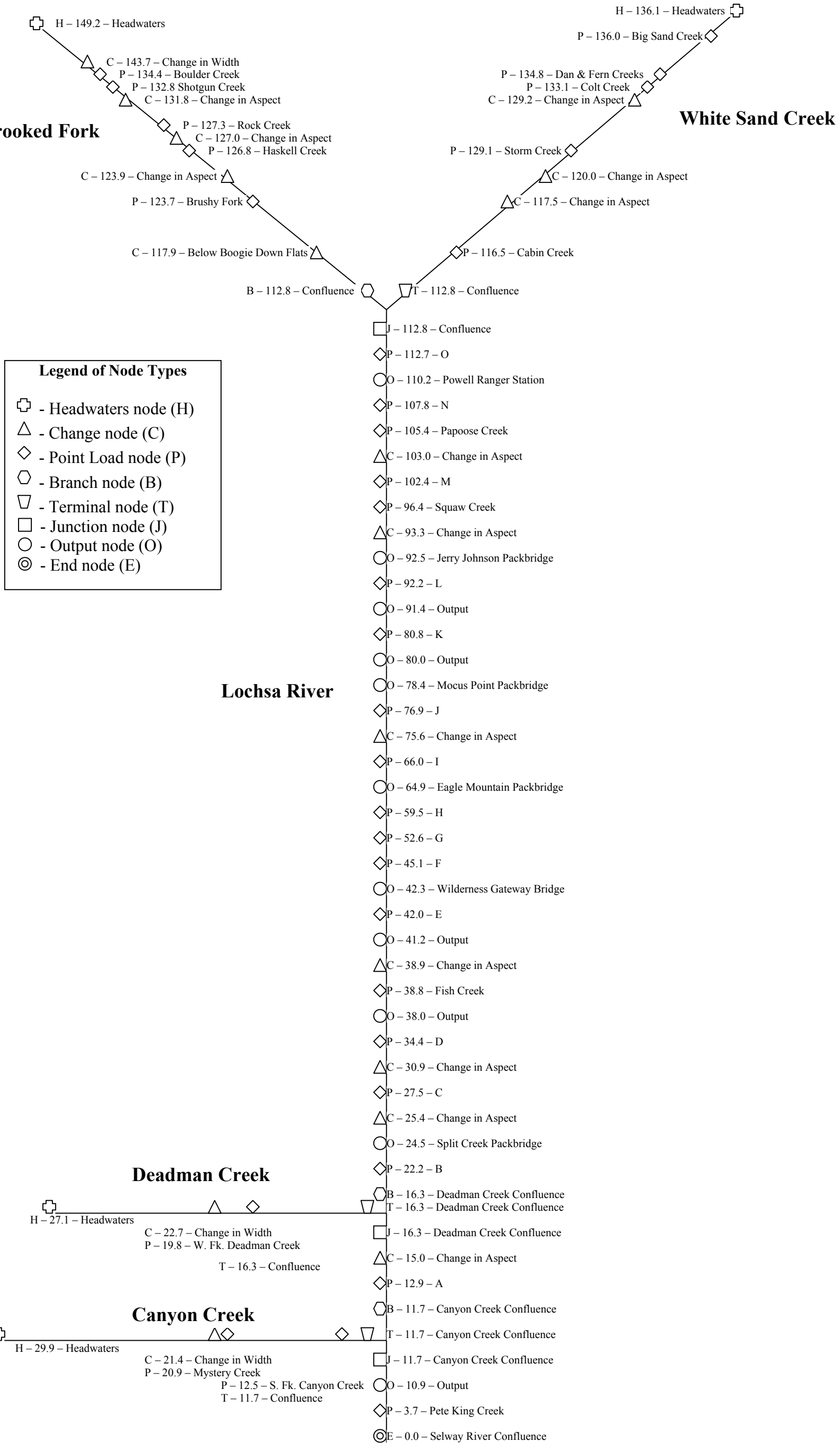


Figure 3. Schematic of Model Segmentation.

tree height was developed for each stream segment using the weighting factor for each of the stands.

East/West Vegetation Offset

This parameter is the average offset of the trunks of the shade-producing strata of vegetation from the edge of the stream.

Offset of the trunks of the riparian trees to the edge of stream was determined using aerial photography. For the Lochsa River, digital color infrared imagery was examined. An example of this imagery, photographed by IRZ Consulting (2001), is shown in Figure 4. For the four tributaries, black and white aerial photography stereo pairs were examined. The offsets used for each segment in SNTEMP reflect an average offset for the corresponding reaches.

Figure 4. Color Infrared (CIR) Imagery of Lochsa-Selway Confluence

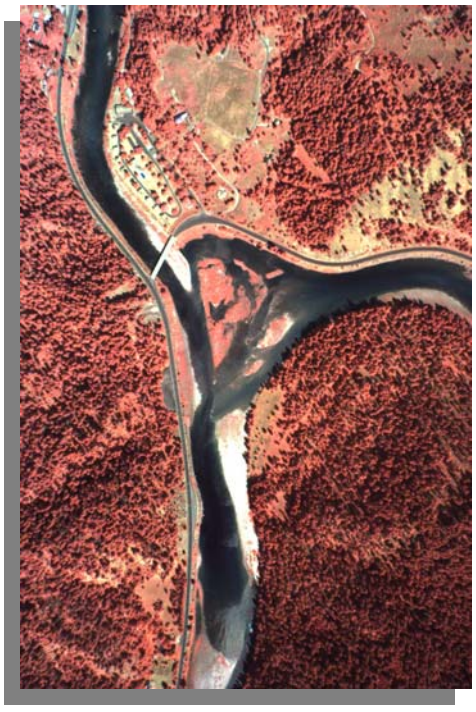


Photo: IRZ Consulting, 2001

East/West Vegetation Density

This parameter is the average screening factor, on a 0 to100 percent scale, of the shade-producing strata of vegetation along the stream.

Vegetation density data were taken from the crown closure data for each stand from the Clearwater National Forest database, as described above. The vegetation densities used for reach segment in SNTEMP reflect an average density for the corresponding examined reaches.

Meteorology Data File—Meteorology Station Latitude and Elevation

These data represent the location at which meteorology input data represent measured conditions. Because SNTEMP only accommodates one set of meteorology data, only one set of station information can be entered into the model. SNTEMP automatically applies adiabatic correction factors to air temperatures based on elevation and adjusts incoming solar radiation based on latitude.

SNTEMP requires a set of meteorology data be provided from only one station. Ideally, this station would be located at the mid-point of the river network being studied. Most meteorology data for this project were collected from Remote Automated Weather Stations (RAWS) located near the river at two separate locations: 1) near Lowell, the downstream end of the Lochsa River, at about River Kilometer (RKM) 0.0, and 2) near Powell, Idaho, the upstream end of the Lochsa River, at about RKM 112.8. The air temperature, wind speed, and relative humidity data used in the SNTEMP meteorology data file are weighted average values of the data from the Lowell and Powell RAWS. The weighted average corresponds with a meteorology station located at approximately RKM 101.5.

Hydrology Data File—Time Period Discharge and Water Temperature

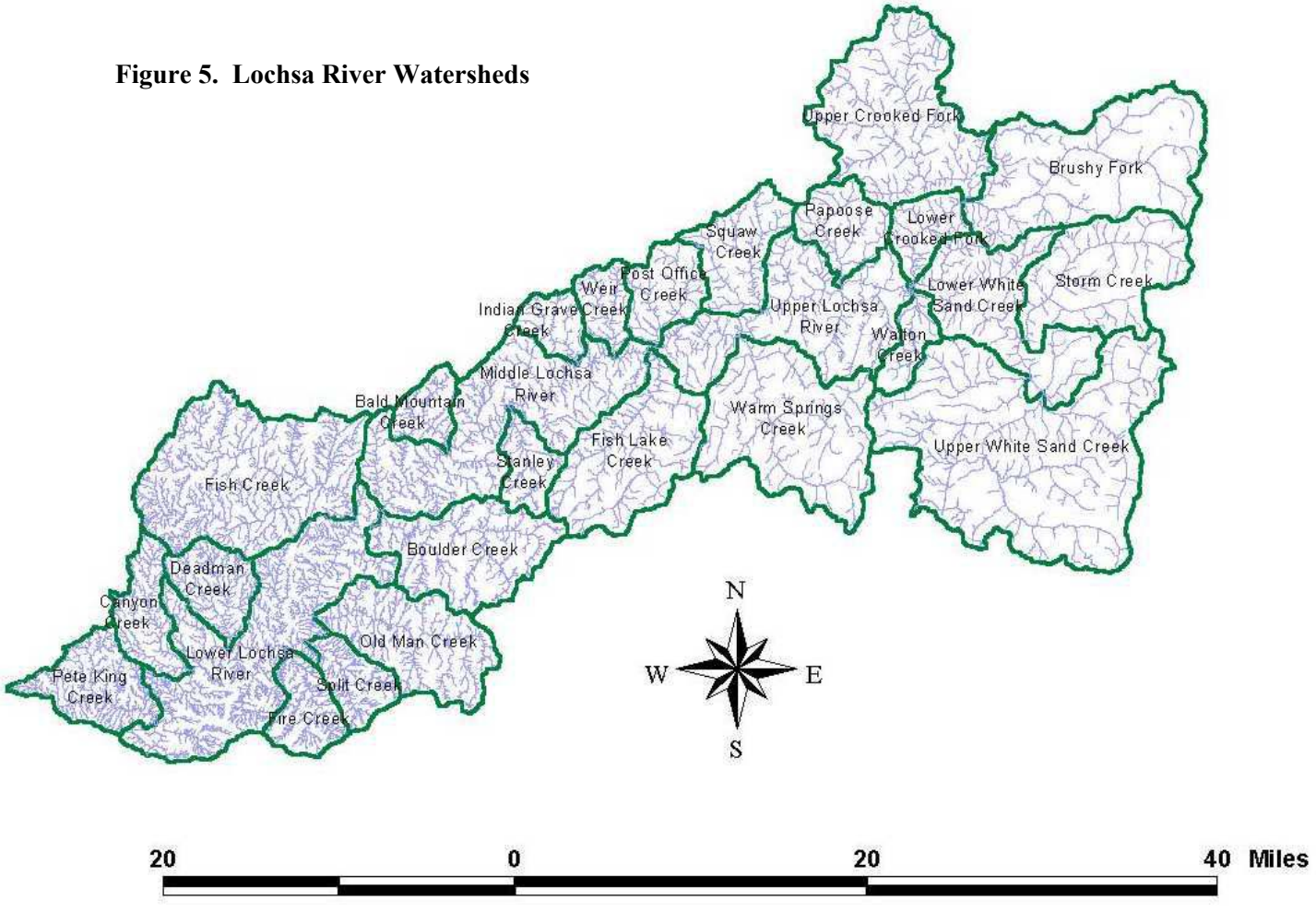
These parameters describe the mean daily flow and mean daily water temperature for each day in the modeling period for each point of inflow into the system. Known discharges and water temperatures in the modeled streams, if available, are included in this data file.

Discharge data were provided for all study years for the downstream end of the Lochsa River at the USGS Lowell gage. In addition, Clearwater National Forest staff collected discharge data for Pete King Creek, Canyon Creek, Deadman Creek, Fish Creek, Squaw Creek, Papoose Creek, Crooked Fork, and White Sand Creek for a portion of the study years. In some cases, discharge data were missing for large portions of the study period. These missing data were too large to be reproduced using the methods provided in the SNTEMP model for synthesizing data. Therefore, linear interpolation was used to produce input to substitute for the missing data. In the few cases where extrapolation was necessary, the last known discharge was used to fill in the missing points.

Many of the tributary streams that were to be modeled in SNTEMP as point source discharges had measured water temperature data but no associated flow rate. Estimated discharges were created using a normalization to area method that determined the discharge of a stream based on the area of the tributary subbasin in relation to a discharge and subbasin area of a similar gaged stream. This method was also used to create discharges on the gaged streams for years in which field data were not collected. Subbasin areas were determined from the watershed delineation map developed by Don Essig of IDEQ, shown in Figure 5.

This normalization to area method did not result in a total discharge equal to the observed Lochsa River discharge at Lowell. There are a number of potential explanations for this discrepancy. Two of the most important explanations are that minor laterals and groundwater recharge were not considered. The remainder of the unaccounted for flow was redistributed geographically throughout the system by adjusting the flows of each of the streams by an equivalent percentage, such that the total estimated flow at Lowell matched the observed flows.

Figure 5. Lochsa River Watersheds



After the redistribution of the remaining discharge, the stream discharges were grouped and summed based on the model segmentation and converted to metric units for entry into SNTEMP.

Measured temperature data were not collected in all streams for all study years. Therefore, measured data for each stream were used when they were available. When measured data were not available, measured temperature data for the most similar stream were used. Stream temperatures were then grouped and averaged based on the model segmentation for entry into SNTEMP.

Data were not available for approximately the first two weeks of July 1998 for many upstream tributaries (the upstream-most stream with measured water temperatures for the first two weeks of July was Skookum Creek, which enters Lochsa River at RKM 63.1). For these streams without measured temperatures, the water temperature on July 1, 1997, was used as a surrogate, and water temperatures were linearly interpolated between the July 1 value and the first measured value. The 1997 (high flow) data were used instead of the 1994 (low flow) data because the hydrology in 1997 was more similar to 1998 than was 1994 hydrology.

Model Calibration and Validation

Average Temperature

Calibration

The model was calibrated by adjusting input parameters for the modeled tributaries and global calibration coefficients for July 1 to August 31 in 1994, 1997, and 1998. Headwater flows, headwater temperatures, and groundwater temperatures were adjusted in calibration of the tributaries. In addition, stream widths were adjusted in Crooked Fork, Canyon Creek, and Deadman Creek during model calibration. Table 3 shows the default, starting, and final calibration values for the 1997-1998 and 1994 models

Daily mean water temperatures in the Lochsa River were calibrated to measured temperatures by adjusting the global calibration coefficients for daily average air temperature, daily average wind speed, and daily average relative humidity. For entry into the model, these measured meteorological values were averaged between the Lowell and Powell meteorological stations. Adjusting these values using the global coefficients returns the meteorological parameters to values that better describe daily mean water temperatures. Daily average relative humidity values were increased by 20 percent to account for the increased humidity at the air-water interface. This practice is recommended in Bartholow (1989).

All four modeled tributaries were calibrated based on measured water temperature at the mouths of each stream. None of the four tributaries were gaged at or near the headwaters; thus, headwaters flows were used for tributary calibration in the model. Similarly, headwater temperatures were not known, so headwater temperatures were also used for calibration of tributaries. Groundwater temperatures were not measured at any point in the stream network; therefore, the groundwater temperature parameter was used for calibration of tributaries. Mean annual air temperature was used as the default groundwater temperature and as a starting point for calibration. Finally, for Canyon Creek, Deadman Creek, and Crooked Fork, stream widths were adjusted to calibrate the water temperature of modeled tributaries to the measured water temperature at the mouth of each stream.

Table 4 shows the results of the model calibration for 1998 (average flow). Absolute Mean Error (AME), median error (median), and percentage of error, or percent of difference from the measured value, (%) were calculated for each calibration node. All AME values were below 1°C, and the overall error was held below 5 percent.

The criterion for model validation was that the AME value for average temperatures each year was to be below 1°C. This criterion was

Table 3. Default, Starting, and Final Values for Calibration Parameters

			Default Values	1997-1998 Model Values	1994 Model Values
Global Calibration Coefficients					
		Air temperature	1	0.9	0.9
		Wind speed	1	1.1	1.1
		Relative humidity	1	1.2	1.2
		% sunshine	1	1	1
		Solar radiation	1	1	1
Groundwater Temperature					
River	**Description**	**River KM**			
Crooked Fork	Headwaters to Boulder Creek	149.2 to 134.4	10.03	4.0	4.0
	Boulder Creek to Shotgun Creek	134.4 to 132.8	10.03	5.5	5.5
	Shotgun Creek to Mouth	132.8 to 112.8	10.03	7.0	7.0
White Sand Creek	Wilderness Boundary to Dan & Fern Creeks	136.1 to 134.8	10.03	5.5	5.5
	Dan & Fern Creeks to Mouth	134.8 to 112.8	10.03	7.0	7.0
Deadman Creek	Headwaters to Mouth	27.1 to 16.3	10.03	12.0	3.0
Canyon Creek	Headwaters to Mystery Creek	29.9 to 20.9	10.03	6.9	2.0
	Mystery Creek to Mouth	20.9 to 11.9	10.03	6.9	6.9
Stream Width					
Crooked Fork	Headwaters to Hopeful Creek	149.2 to 143.7	3.4	1.7	1.7
	Hopeful Creek to Haskell Creek	143.7 to 131.8	9.6	4.8	4.8
	Haskell Creek to Brushy Fork	131.8 to 127.0	16.6	8.3	8.3
	Brushy Fork to change in aspect	127.0 to 123.9	20.8	10.4	10.4
	Change in aspect to change in aspect	123.9 to 117.9	26.4	13.2	13.2
	Change in aspect to mouth	117.9 to 112.8	26.3	13.1	13.1
White Sand Creek	Big Sand Creek to Storm Creek	136.1 to 129.2	21	21.0	21.0
	Storm Creek to change in aspect	129.2 to 120.0	19.3	19.3	19.3
	change in aspect to change in aspect	120.0 to 117.5	26.7	26.7	26.7
	change in aspect to mouth	117.5 to 112.8	30	30.0	30.0
Lochsa River	Confluence to change in aspect	112.8 to 103.0	50.2	50.2	50.2
	Change in aspect to change in aspect	103.0 to 93.3	38.1	38.1	38.1
	Change in aspect to change in aspect	93.3 to 75.6	29.1	29.1	29.1
	Change in aspect to Fish Creek	75.6 to 38.8	35.1	35.1	35.1
	Fish Creek to change in aspect	38.8 to 30.9	37.1	37.1	37.1
	Change in aspect to change in aspect	30.9 to 25.4	44.3	44.3	44.3
	Change in aspect to Deadman Creek	25.4 to 16.3	48.7	48.7	48.7

Table 3. Default, Starting, and Final Values for Calibration Parameters (continued)

			Default Values	1997-1998 Model Values	1994 Model Values
Stream Width					
River	**Description**	**River KM**			
Lochsa River (continued)	Deadman Creek to change in aspect	16.3 to 15.0	36.9	36.9	36.9
	Change in aspect to Canyon Creek	15.0 to 11.7	32.1	32.1	32.1
	Canyon Creek to mouth	11.7 to 0.0	41.7	41.7	41.7
Deadman Creek	Headwaters to West Fork Deadman Creek	27.1 to 22.7	5	3.2	3.2
	West Fork Deadman Creek to mouth	22.7 to 16.3	6.7	4.2	4.2
Canyon Creek	Headwaters to Mystery Creek	29.9 to 21.4	4.1	1.6	1.6
	Mystery Creek to mouth	21.4 to 11.7	6.2	2.5	2.5

Table 4. 1998 (Average Flow) Average Temperature Model Calibration Results

River	River KM	AME (°C)	Median Error (°C)	Range (°C)	
				Min	Max
Lochsa River	0.0	0.84	0.14	-4.00	1.40
Deadman Creek	16.3	0.81	0.09	-2.77	1.77
Lochsa River	42.3	0.70	-0.30	-2.73	1.05
Lochsa River	64.9	0.79	-0.63	-2.86	0.97
Lochsa River	78.4	0.69	-0.47	-2.08	1.13
Crooked Fork	112.8	0.81	0.24	-1.69	3.25
White Sand	117.9	0.76	0.36	-1.48	3.43
Average AME % Difference from Measured			0.77 4.69%		

met for 1998 (average flow) and 1997 (high flow), but 1994 (low flow) validation statistics indicated that re-calibration for 1994 was necessary. As a result, 1994 was separated from the model and was calibrated as a separate model using similar parameters as the original model: headwater discharge, head-water temperature, groundwater temperature, and global calibration coefficients. Stream widths were not changed in the 1994 model calibration. In addition, Canyon Creek was not calibrated in the 1994 model because it was already calibrated to 1994 measured data in the original model due to the lack of 1998 measured data. Results of 1994 average temperature model calibration are shown in Table 5.

Table 5. 1994 (Low Flow) Average Temperature Model Calibration Results

River	River KM	AME (°C)	Median Error (°C)	Range (°C)	
				Min	Max
Lochsa River	0.0	0.54	0.04	-1.52	1.78
Canyon Creek	11.7	0.49	-0.32	-1.41	0.84
Deadman Creek	16.3	1.11	0.21	-3.00	3.49
Average AME % Difference from Measured			0.71 4.55%		

Validation

Table 6 shows the results of average temperature model validation for 1997 (high flow). The AME for each node was below 0.9°C, and overall difference from measured temperatures was slightly above 4 percent.

Table 6. 1997 (High Flow) Average Temperature Model Validation Results

River	River KM	AME (°C)	Median Error (°C)	Range (°C)	
				Min	Max
Lochsa River	0.0	0.54	-0.09	-2.02	0.87
Canyon Creek	11.7	0.50	-0.04	-1.64	1.06
Deadman Creek	16.3	0.53	0.35	-0.82	1.36
Lochsa River	42.0	0.59	-0.34	-1.99	1.30
White Sand	117.9	0.86	0.29	-1.03	2.61
Average AME % Difference from Measured			0.60 4.08%		

Maximum Temperature

Calibration

Maximum water temperature calibration was accomplished by adjustment of four regression coefficients in the job control file (Theurer et al. 1984). The regression coefficients relate measured average daily air temperature to estimated maximum daily air temperature using the following model:

$$T_{ax} = T_a + \left[a_o + a_1 H_{sg} + a_2 R_h + a_3 (S / S_o)\right]$$

Where:

T_{ax} = maximum daytime air temperature (° C)

T_a = average daily air temperature (° C)

H_{sg} = ground level solar radiation ($J/m^2/sec$)

R_h = relative humidity (decimal)

S/S_o = percent possible sunshine (decimal)

a_0, a_1, a_2, a_3 = regression coefficients

The maximum daily air temperature is used by SNTEMP to find the maximum daily water temperature for a given day at all model nodes. This maximum air temperature regression model is the only method SNTEMP uses to calculate maximum water temperatures.

Maximum temperatures calculated using the above equation are not reported in SNTEMP output. Thus, a hand calculation was performed to compare the result of the equation, maximum air temperature, to the measured maximum air temperature on a random day – July 28, 1998. Final calibration regression coefficients and measured values were entered into the equation. The solar radiation value was obtained by entering the complete set of input parameters into the SSTEMP model. Values of the coefficients and variables were as follows:

T_a = 20.87°C
H_{sg} = 216.13 $J/m^2/s$
R_h = 80.2%
S/S_o = 67.3%
a_0 = -9.89
a_1 = 0.0082
a_2 = 2.79
a_3 = 0.5

The result of the equation was a maximum air temperature of 15.33°C, several degrees below the measured maximum air temperature of 23.48°C. While the difference between the two values is substantial, this is not surprising, as maximum air temperature is not treated as a state variable, rather as the only means of calibrating the SNTEMP daily average temperature model to maximum temperatures.

The maximum air temperature regression coefficients were modified from the program default values and values given in Theurer et al. (1984) using trial and error. The coefficients for the 1997-1998 (high flow-average flow) model were different than those used in the 1994 (low flow) model. Tables 7 and 8 show maximum temperature model calibration results for 1998 and 1994, respectively.

Table 7. 1998 (Average Flow) Maximum Temperature Model Calibration Results

River	River KM	AME (°C)	Median Error (°C)	Range (°C)	
				Min	Max
Lochsa River	0.0	1.14	-1.01	-3.07	0.97
Deadman Creek	16.3	0.97	0.25	-3.89	2.53
Lochsa River	42.3	1.93	-1.97	-3.47	0.43
Lochsa River	64.9	0.86	-0.16	-2.81	2.59
Lochsa River	78.4	1.03	-0.42	-2.59	1.53
Crooked Fork	112.8	2.76	-2.93	-5.23	1.23
White Sand	117.9	1.40	1.36	-1.14	6.18
Average AME % Difference from Measured			1.40 7.17%		

Table 8. 1994 (Low Flow) Maximum Temperature Model Calibration Results

River	River KM	AME (°C)	Median Error (°C)	Range (°C)	
				Min	Max
Lochsa River	0.0	0.81	-0.60	-2.74	1.19
Canyon Creek	11.7	0.46	0.17	-1.48	1.17
Deadman Creek	16.3	1.47	0.97	-3.09	3.99
Average AME % Difference from Measured			0.91 5.05%		

Validation

Table 9 shows the results of maximum temperature model validation for 1997 (high flow). The AME for the validation nodes averaged 1.31°C, with overall difference from measured values below 8 percent. The errors for the maximum temperature models are higher than those for the average temperature models and can be attributed to SNTEMP's lack of a robust maximum temperature model.

The results of the maximum temperature model validation illustrate a key limitation of the SNTEMP model, that which constrains the ability to develop a more elaborate calibration to maximum daily temperatures. An alternative model selection would be necessary to expand the analysis of maximum daily temperatures.

Table 9. 1997 (High Flow) Maximum Temperature Model Validation Results

River	River KM	AME (°C)	Median Error (°C)	Range (°C)	
				Min	Max
Lochsa River	0.0	0.72	-0.22	-2.69	1.62
Canyon Creek	11.7	1.26	0.86	-2.52	5.14
Deadman Creek	16.3	1.15	1.01	-0.49	3.18
Lochsa River	42.0	1.63	0.50	-0.79	2.56
White Sand	117.9	1.76	0.63	-3.11	5.67
Average AME % Difference from Measured			1.15 7.05%		

Model Simulations

Following model calibration and validation, the models were used to simulate scenarios to answer the following six questions posed by IDEQ:

1. What are predicted water temperatures under current canopy conditions?
2. What are predicted water temperatures with full potential canopy cover?
3. What input variable most explains predicted water temperatures?
4. How much decrease in thermal load would be necessary to meet Idaho's CWB criteria on a day that air temperature reaches the 90th percentile of the annual peaks in seven-day average of daily maximum air temperature?
5. How much of this decrease in thermal load could be provided by increased stream shading?
6. How much cooling in tributary inflow temperatures would be needed for the Lochsa River to meet CWB criteria at Lowell on the 90th percentile air temperature day?

Simulation 1—What are predicted water temperatures under current canopy conditions?

An "existing conditions" water temperature model was calibrated and validated (see

previous section) to current canopy conditions. The current canopy conditions are summarized in Table 10. Modeled temperature values under existing canopy conditions are summarized as the Baseline Condition in Table 11.

Simulation 2—What are predicted water temperatures with full potential canopy cover?

"Full potential canopy cover" was simulated by changing the vegetative shade parameters of crown width, crown height, offset, and percent (%) density for each segment of the modeled system. The changes were attained by assuming a "passive restoration" strategy, where the dominant species and habitat type would be allowed to grow to its full potential with no anthropogenic changes, nor changes due to fire or disease. The full potential was determined by observing the 80th percentile value for the tree height and canopy density variables from nearby stands with similar habitat types. Table 10 shows the habitat type groups for each of the stream segments, and the canopy densities for the existing and full potential canopy scenarios.

The theoretical maximum potential for a wilderness, unmanaged, untouched stand of trees is the 50th percentile of that stand; average values of the stand that are already at maximum potential. However, stands in the Lochsa River basin are subject to human management. Even under wilderness conditions, these stands are susceptible to fire and disease. Based on discussion with Clearwater National Forest silviculturist Bill Wulf (2001), the 80th percentile of the tree height and canopy density parameters was used for this simulation. The 80th percentile of these variables represent the natural disturbances that are an integral part of the forest landscape.

Two full potential canopy cover scenario were simulated: Scenario 1 reflects passive restoration strategy for all tributaries and the south/east bank of the Lochsa River only, and Scenario 2 reflects passive restoration strategy for all tributaries and both banks of the Lochsa River. Scenario 1 was simulated to acknowledge the continued presence of U.S. Route 12. In this scenario, the south/east bank of the Lochsa River was modeled with full potential canopy cover, while the north/west bank of the Lochsa River exhibited existing canopy cover. Scenario 2 simulates the abandonment of U.S. Route 12 to allow full potential canopy cover to generate on both banks as a result of passive restoration.

The average changes in temperature for the July-August modeling period are shown in Table 11 for the full canopy simulations. The daily average and daily maximum water temperatures under full potential canopy conditions, averaged over the modeling period, are compared to baseline conditions throughout the Lochsa River in Figures 6 and 7, respectively.

Under full potential canopy conditions, daily average water temperatures of the Lochsa River at the USGS gage would be approximately 1.0 to 1.5°C cooler than under existing canopy conditions in the modeled years. Maximum water temperatures would be decreased approximately 1.4 to 2.1°C for the same period. These changes in water temperature are not enough to meet either Idaho CWB daily average or daily maximum temperature criteria.

An additional model was run using tree height and canopy density values based on the 98th percentile of nearby stands. Average decreases in temperature were 1.3° and 2.0°C greater than those seen in the 80th percentile simulation, respectively. Water temperatures would be reduced sufficiently to meet the Idaho CWB criterion of 22.0°C for maximum temperature; however, daily average stream temperatures in the Lochsa River still would not meet Idaho CWB average temperature criterion of 19.0°C under this scenario. An average stand of trees growing to sizes

				Existing conditions					Potential full canopy - 80th percentile, Scenario 1					Potential full canopy - 80th percentile, Scenario 2				
River	Reach	River KM	Habitat type group (Clearwater NF TSMRS)	Crown width (m)	Height (m)	East Offset (m)	West Offset (m)	Density (%)	Crown width (m)	Height (m)	East Offset (m)	West Offset (m)	Density (%)	Crown width (m)	Height (m)	East Offset (m)	West Offset (m)	Density (%)
Crooked Fork	Headwaters to Hopeful Creek	149.2 to 143.7	Moist - S/SAF/MH	10	22.6	2	2	37.1	18	23.3	1	1	63	18	23.3	1	1	63
	Hopeful Creek to Haskell Creek	143.7 to 131.8	Moist - S/SAF/MH	10	22.6	2	2	37.1	18	23.3	1	1	63	18	23.3	1	1	63
	Haskell Creek to Brushy Fork	131.8 to 127.0	Moist - S/SAF/MH	10	26.1	2	2	32.3	18	23.3	1	1	63	18	23.3	1	1	63
	Brushy Fork to change in aspect	127.0 to 123.9	Moist - S/SAF/MH	10	24.7	2	2	32.1	18	27.3	1	1	54	18	27.3	1	1	54
	Change in aspect to change in aspect	123.9 to 117.9	Wet - WRC	10	30	2	2	11.2	18	32.9	1	1	74	18	32.9	1	1	74
	Change in aspect to mouth	117.9 to 112.8	Wet - WRC	10	30.7	4	4	15.8	18	32.9	1	1	74	18	32.9	1	1	74
White Sand Creek	Big Sand Creek to Storm Creek	136.1 to 129.2	Moist - S/SAF/MH	10	26.9	2	2	37.2	18	29.3	1	1	71	18	29.3	1	1	71
	Storm Creek to change in aspect	129.2 to 120.0	Moist - WRC/WH	10	26.3	2	2	41.4	18	26.9	1	1	55	18	26.9	1	1	55
	change in aspect to change in aspect	120.0 to 117.5	Moist - WRC/WH	10	27.8	2	2	47.9	18	28.1	1	1	54	18	28.1	1	1	54
	change in aspect to mouth	117.5 to 112.8	Moist - WRC/WH	10	29.9	4	4	47.8	18	28.1	1	1	54	18	28.1	1	1	54
Lochsa River	Confluence to change in aspect	112.8 to 103.0	Moist - WRC/WH	10	27.8	9	20.9	45.6	18	30.7	8.6	20.9	75	18	30.7	8.6	8.6	75
	Change in aspect to change in aspect	103.0 to 93.3	Moist - WRC/WH	10	29.4	7	40.9	51.8	18	30.7	8.6	40.9	75	18	30.7	8.6	8.6	75
	Change in aspect to change in aspect	93.3 to 75.6	Moist - WRC/WH	10	25.3	9.6	30.6	49.1	18	30.7	8.6	30.6	75	18	30.7	8.6	8.6	75
	Change in aspect to Fish Creek	75.6 to 38.8	Moist - WRC/WH	10	23.2	9.3	22.4	33.4	18	27	8.6	22.4	67	18	27	8.6	8.6	67
	Fish Creek to change in aspect	38.8 to 30.9	Moist - WRC/WH	10	20.7	12.9	27.3	32.1	18	27	8.6	27.3	67	18	27	8.6	8.6	67
	Change in aspect to change in aspect	30.9 to 25.4	Moist - WRC/WH	10	19.7	6.5	16.1	28.4	18	27	8.6	16.1	67	18	27	8.6	8.6	67
	Change in aspect to Deadman Creek	25.4 to 16.3	Moist - WRC/WH	10	22.8	10.9	44.2	28.2	18	27	8.6	44.2	67	18	27	8.6	8.6	67
	Deadman Creek to change in aspect	16.3 to 15.0	Moist - WRC/WH	10	25.1	14.9	59.8	35.5	18	26.8	8.6	59.8	67	18	26.8	8.6	8.6	67
	Change in aspect to Canyon Creek	15.0 to 11.7	Moist - WRC/WH	10	24.7	11.4	13.8	42.1	18	26.8	8.6	13.8	67	18	26.8	8.6	8.6	67
	Canyon Creek to mouth	11.7 to 0.0	Moist - WRC/WH	10	27.6	16.5	25.6	32.0	18	26.8	8.6	25.6	67	18	26.8	8.6	8.6	67
Deadman Creek	Headwaters to West Fork Deadman Creek	27.1 to 22.7	Moist - WRC/WH	10	25.4	2	2	35.3	18	31	2	2	68	18	31	2	2	68
	West Fork Deadman Creek to mouth	22.7 to 16.3	Moist - WRC/WH	10	27.2	2	2	37.4	18	31	2	2	68	18	31	2	2	68
Canyon Creek	Headwaters to Mystery Creek	29.9 to 21.4	Moist - WRC/WH	10	25.5	2	2	39.3	18	31	2	2	68	18	31	2	2	68
	Mystery Creek to mouth	21.4 to 11.7	Moist - WRC/WH	10	31.7	2	2	47.0	18	31	2	2	68	18	31	2	2	68

Note: Baseline—Existing canopy conditions
Scenario 1—Full potential canopy cover assuming the continued presence of U.S. Route 12
Scenario 2—Full potential canopy cover assuming passive restoration in place of U.S. Route 12

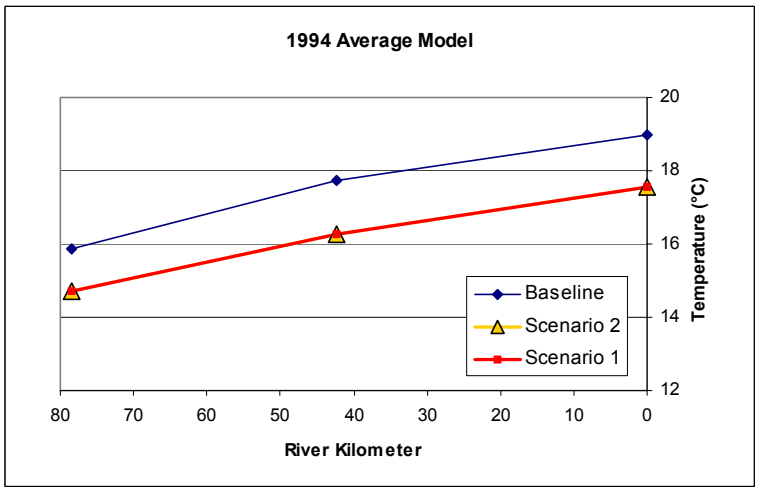
Table 10. Current and Full Potential Canopy Cover Conditions

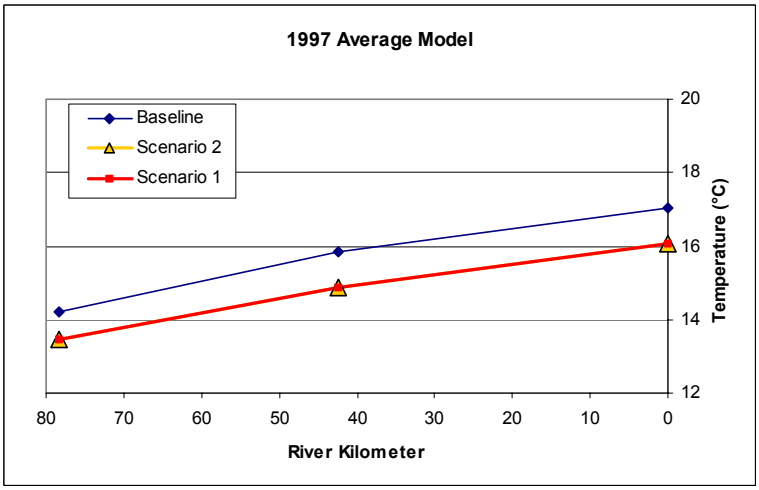
Table 11. Output from Full Potential Canopy Cover Models, Average for Modeling Period

RKM	Average Temperature Model			Maximum Temperature Model		
	Baseline	Δ Temp Scenario 1	Δ Temp Scenario 2	Baseline	Δ Temp Scenario 1	Δ Temp Scenario 2
1994 (low flow)						
0.0	18.99	-1.42	-1.45	20.87	-2.05	-2.08
42.3	17.73	-1.49	-1.49	20.23	-2.31	-2.31
78.4	15.88	-1.18	-1.18	18.15	-2.12	-2.12
1997 (high flow)						
0.0	17.02	-0.94	-0.95	18.51	-1.39	-1.41
42.3	15.86	-0.98	-0.98	17.96	-1.63	-1.63
78.4	14.21	-0.76	-0.76	16.15	-1.51	-1.51
1998 (average flow)						
0.0	19.38	-1.08	-1.09	21.07	-1.59	-1.60
42.3	18.28	-1.15	-1.15	20.59	-1.85	-1.85
78.4	16.39	-0.91	-0.91	18.54	-1.73	-1.73

Note: Baseline—Existing canopy conditions
Scenario 1—Full potential canopy cover assuming the continued presence of U.S. Route 12
Scenario 2—Full potential canopy cover assuming passive restoration in place of U.S. Route 12

Figure 6. Full Potential Canopy Cover Models vs. Baseline Model: Average Temperature, Averaged Over Modeling Period





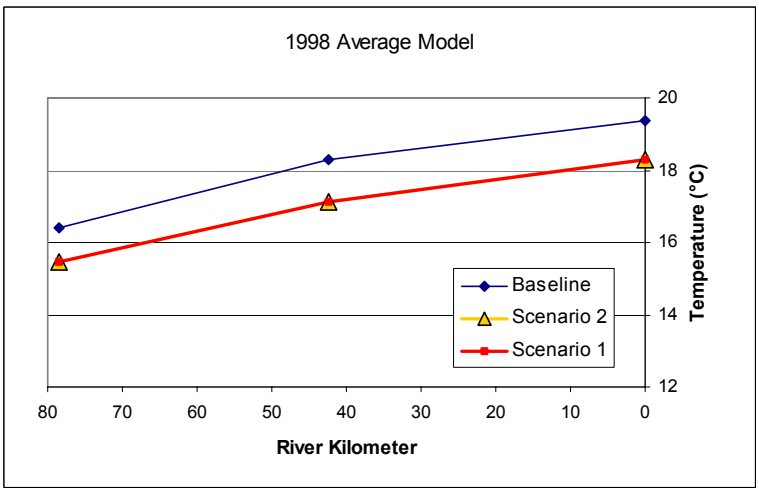
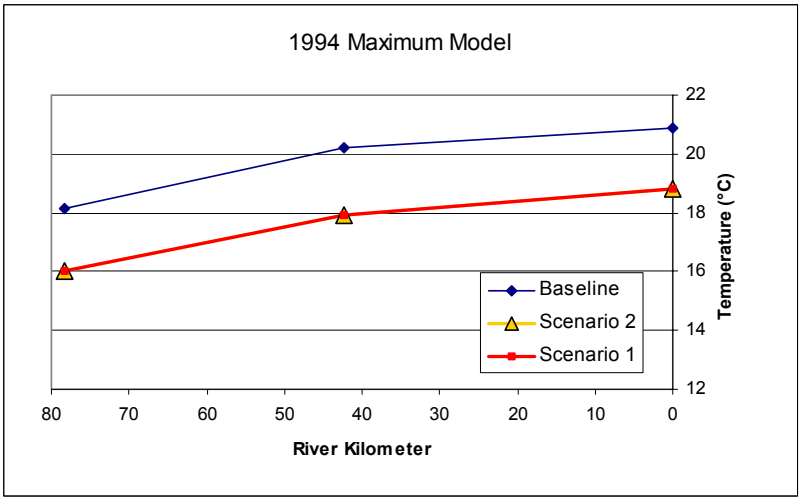
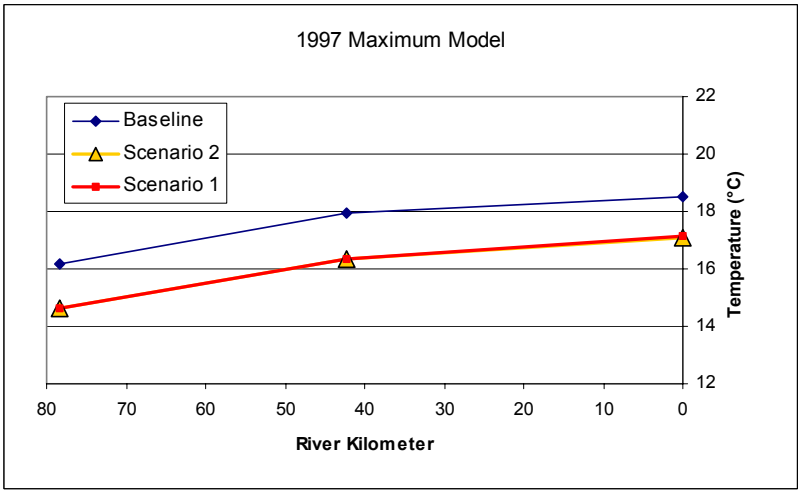
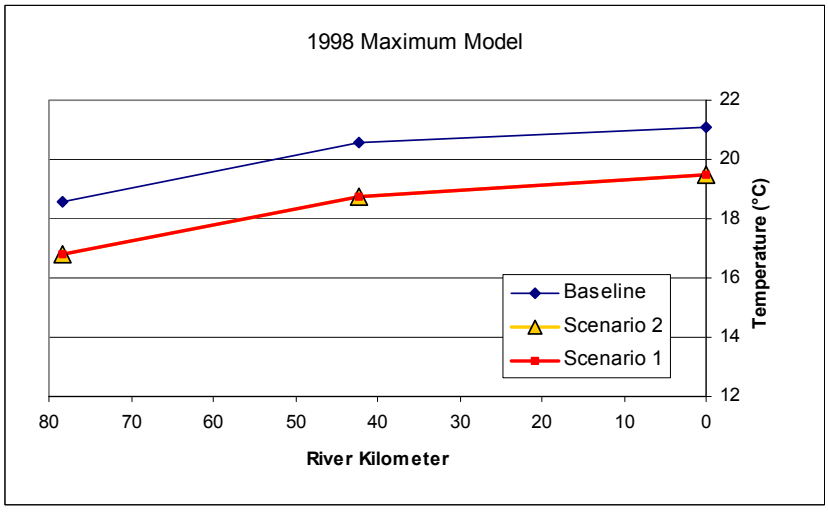


Figure 7. Full Potential Canopy Cover Models vs. Baseline Model: Maximum Temperature, Averaged Over Modeling Period







indicated by the 98th percentile for these two variables is not considered attainable in the Lochsa River basin, even with a full passive restoration effort (Wulf 2001). Therefore, the 80th percentile for the variables was used to attain a more plausible simulation.

Simulation 3—What input variable most explains predicted stream temperatures? This question can easily and accurately be answered, in the context of the SNTEMP models, using a sensitivity analysis. A sensitivity analysis is a method of identifying the important parameters and understanding the general behavior of a model by systematically changing the value of one or more input parameters (Chapra 1997). A sensitivity analysis is useful because of its role in model validation and evaluating model results when input has been changed. Other features of a sensitivity analysis include: 1) It assists in identifying the input parameters that contribute only marginally to the functional relationships of the model; 2) It quantitatively measures the change in output due to variations in the input; and 3) It describes the degree to which input parameter values can be altered without significantly affecting the model output (Hendrickson 1984).

The sensitivity of SNTEMP to various input parameters was tested by parameter perturbation of one baseline parameter per analysis (Chapra 1997). The percentage of the change of each parameter was based on what can realistically be seen in the physical system.

A parameter perturbation sensitivity analysis is performed by varying each of the model parameters while holding the other terms constant (Chapra 1997). One method of varying the parameters is raising and lowering the value of the parameter being tested a fixed percent. This is how the sensitivity analysis was performed in this study.

Sensitivity analyses involving perturbation of 12 parameters were performed and compared to quantify the sensitivity of the output to the input. The 1998 (average flow) model of the Lochsa River was selected as the model to be tested. The 62-day time series for a single parameter was increased by 10 percent from the baseline, and the model was run with the modification to the single parameter. This model was then run with a reduction of 10 percent from the baseline. This process was repeated for all 12 parameters. For each treatment, the change in output water temperature at the downstream-most node was compared to the baseline. The value that each treatment differed from the baseline was plotted in Figures 8 and 9 for average temperature and maximum temperature models, respectively. The total °C each parameter varied from the baseline is given in Table 12.

As shown in Figures 8 and 9, the parameters that the 1998 (average flow) model were most sensitive to were air temperature, inflow temperature, solar radiation, stream width, relative humidity, and stream flow. Five of these six parameters were also recognized as the top six most sensitive parameters in a sensitivity analysis described in Bartholow (1989). Note that the relative "importance" of an input parameter to ultimate downstream water temperature predictions varies between the average and maximum water temperature models, as shown in Table 12.

Figure 10 plots the full range of values for each of the input parameters. Comparing the full range of input to the change in output based on parameter perturbation, given in Figures 8 and 9, gives a good indication of the sensitivity of the system to each parameter. For example, in Figure 8, 10 percent increases and decreases of the relative humidity and stream flow input parameters result in an approximately equal change in output temperature. However, values of stream flow vary more in the 1998 data set than do values of relative humidity, as shown in Figure 10. Because of the great range of stream flows over the course of the two month data set, the stream flow variable can be considered more important than relative humidity in explaining stream temperatures.

Figure 8. Sensitivity of the Output Water Temperature Predictions of the 1998 Average Temperature Model to the 10% Increase and Decrease of Selected Input Parameters

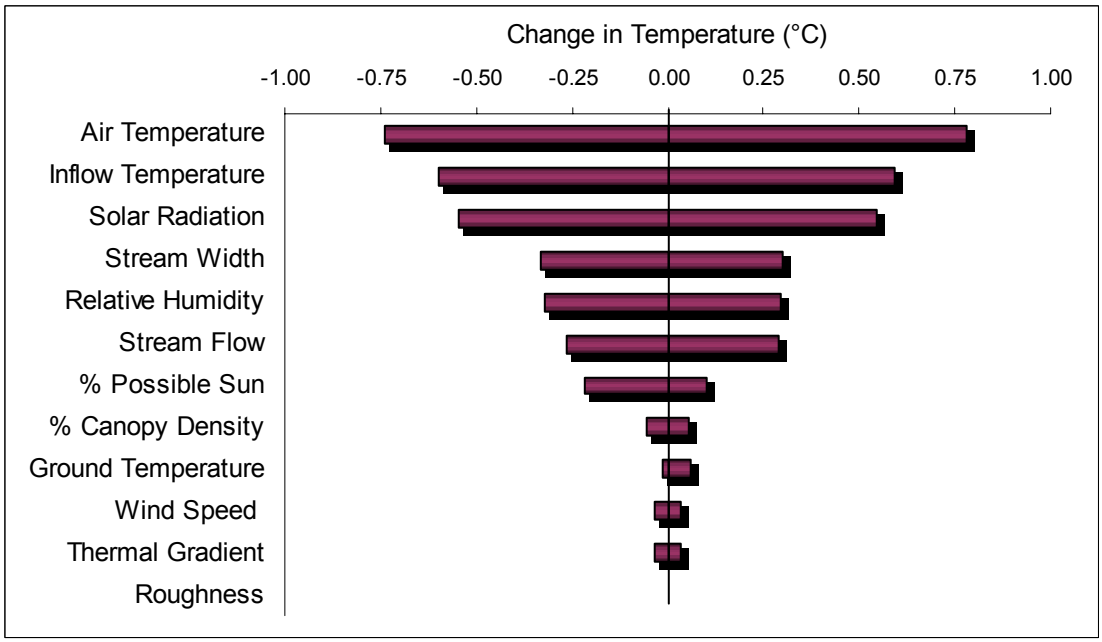


Figure 9. Sensitivity of the Output Water Temperature Predictions of the 1998 Maximum Temperature Model to the 10% Increase and Decrease of Selected Input Parameters

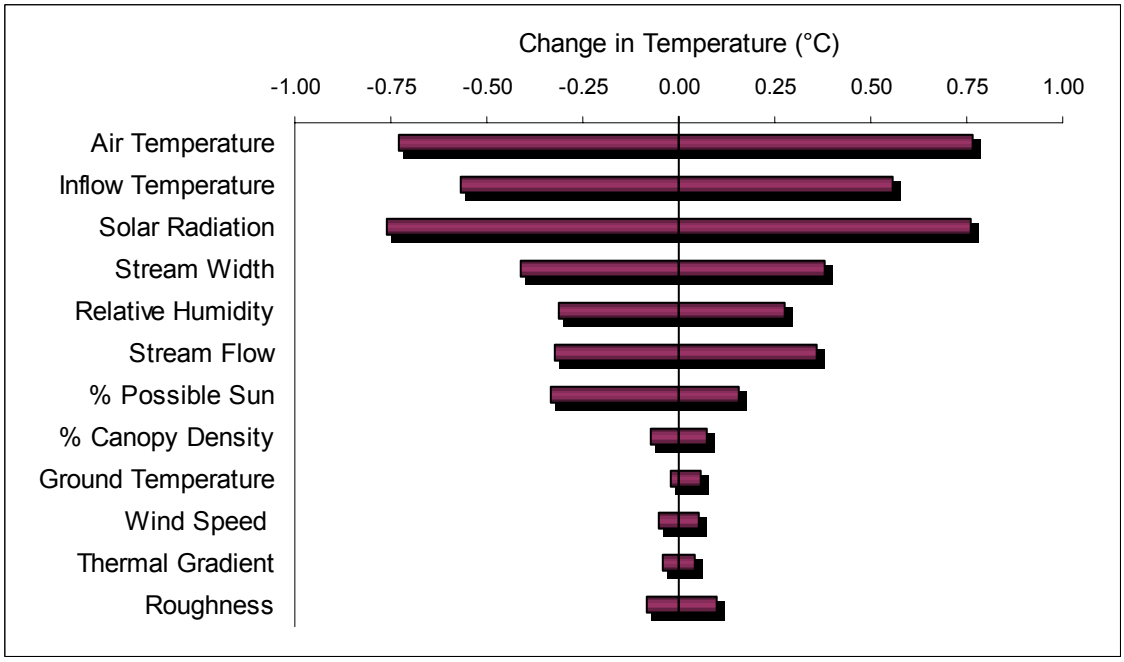


Figure 10. Temporal Range of Input Parameters at Lochsa River RM 42.3, 1998 Model

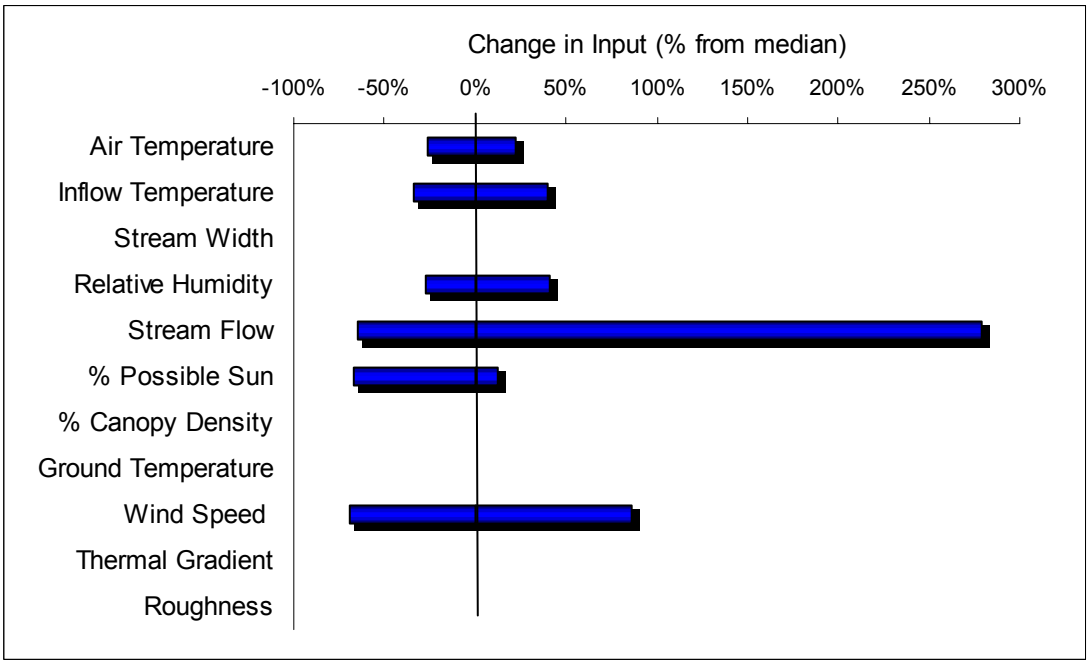


Table 12. Sensitivity of the Temporal Scale Input Parameter Values and Output Water Temperature Predictions of the 1998 Models Based on ±10% Parameter Perturbation[1]

Parameter	Scale	Input Range		Average T Model (°C)	Maximum T Model (°C)
		Min %	Max %		
Air Temperature	Temporal	-26.3%	21.9%	1.52	1.50
Inflow Temperature	Temporal & Spatial	-33.9%	40.3%	1.19	1.12
Solar Radiation	Temporal	[2]	[2]	1.09	1.52
Stream Width	Spatial	--	--	0.63	0.79
Relative Humidity	Temporal	-27.0%	41.0%	0.62	0.59
Stream Flow	Temporal & Spatial	-64.5%	278.9%	0.55	0.68
% Possible Sun	Temporal	-66.9%	11.9%	0.32	0.49
% Canopy Density	Spatial	--	--	0.11	0.15
Ground Temperature	Spatial	--	--	0.07	0.08
Wind Speed	Temporal	-69.6%	86.6%	0.07	0.10
Thermal Gradient	Constant	--	--	0.07	0.08
Roughness	Spatial	--	--	0.00	0.18

[1] – Input ranges are measured in percentage difference from the median, and output ranges are measured in total °C change from baseline temperature.

[2] – Ranges of incoming solar radiation cannot be obtained easily from SNTEMP output. See text for further explanation.

(Note: A sensitivity analysis was performed on the solar radiation parameter by adjusting the global calibration coefficient for solar radiation in the job control file. The range of solar radiation in the input set is determined internally by the model and is not recorded in the model output. Therefore, the range of input values could not be determined. However, the results of the sensitivity analysis for solar radiation are included in Figures 8 and 9 and Table 12.)

Based on the above analysis, it can be inferred that air temperature is the input variable that most explains stream temperatures in the Lochsa River. Inflow water temperature is another important input variable. However, the great variability of the stream flow input underscores its significance to Lochsa River water temperatures, as the Lochsa River is not flow regulated.

Simulation 4—How much decrease in thermal load would be necessary to meet Idaho's CWB criteria on a day that air temperature reaches the 90th percentile of the annual peaks in seven-day average of daily maximum air temperature?

The Lochsa River falls within National Climatic Data Center—Idaho Climate Division 4, in which there are three official weather stations. The study site lies closest to the McCall, Idaho, weather station (Coop Station ID # 105708). Analysis of maximum temperature data recorded at the McCall station indicates that 7-day average maximum air temperature exceeded the 90th percentile (32.78°C) during the period of July 23 through August 1, 1994. The 90th percentile was not exceeded in 1997 (high flow) or 1998 (average flow).

Of the July 23 through August 1, 1994, period, the 7-day average maximum temperature on August 1 most closely matched the 90th percentile (32.94°C). The 1994 (low flow) maximum temperature model was run for August 1 (Julian Day 213) to answer this question.

The average flow at the Lochsa River gage near Lowell on August 1, 1994, was 18.21 m^3/s. Measured temperatures indicate the average daily water temperature on this date was 22.3°C; 3.3°C above the average daily temperature criterion. The maximum measured water temperature on this date was 25.2° C; 3.2°C above the instantaneous temperature criterion.

For the water temperature at this section of the Lochsa River to decrease to the instantaneous criterion on this date, approximately $2.432x10^8$ joules (J) ($2.305x10^5$ BTU, $5.813x10^4$ C) would have to be removed from the river.

The average temperature of 22.3°C reflects an average value of water temperature throughout a 24-hour period. A daily thermal load contributes to this temperature. To decrease the water temperature at this location to the average water temperature criterion, a thermal load of approximately $2.167x10^{13}$ J/day ($2.054x10^{10}$ BTU/day, $5.179x10^9$ C/day) would have to be removed from the river.

Simulation 5—How much of this decrease in thermal load could be provided by increased stream shading?

Energy, in units of joules (J), British Thermal Units (BTU), or kilocalories (C), cannot be extracted from the SNTEMP model output without significant changes to the source code. However, increasing vegetative shade in the reach can simulate a reduction of thermal load. The increased shading prevents energy, in the form of solar radiation, from entering the river. The decreased temperature as a result of increased vegetative shading reflects the reduction in thermal load input to the Lochsa River.

The full potential canopy cover simulation, as described above, simulates reduced thermal conditions due to increased stream shading. Table 13 compares output from the two full potential canopy cover scenarios with the baseline simulation on the 90th percentile air temperature day, August 1, 1994.

As shown in Table 13, full potential canopy cover can decrease the average stream temperature on August 1, 1994, at RKM 0.0 by as much as 1.35°C. However, since the target decrease is 2.76°C, increasing stream shading to full potential canopy cover will not decrease water temperatures below the average temperature criterion. Maximum temperatures at the same location can be reduced by as much as 1.88°C under the 80th percentile full potential canopy cover scenario. The target reduction in maximum water temperature to meet the instantaneous criterion is 1.32°C. Thus, on the 90th percentile air temperature day represented by August 1, 1994, the maximum water temperature criterion can be met if stream shading is increased to full potential canopy cover conditions.

Simulation 6—How much cooling in tributary inflow temperatures would be needed for the Lochsa River to meet CWB criteria at Lowell on 90th percentile air temperature day?

Model inflow water temperatures on August 1, 1994, were adjusted to answer this question. The inflow temperatures were reduced using a trial-and-error process until the Idaho CWB temperature criteria were met for both daily average temperature (19.0°C) and maximum temperature (22.0°C). A total tributary reduction of 8.53°C would be needed to meet Idaho CWB temperature criteria at Lowell on August 1, 1994. The average temperature criterion is the limiting factor, as the maximum temperature criterion is met with an approximately 4.6°C reduction in inflow temperature. This conclusion is consistent with the results of Simulations 2 and 5, in which a change in vegetative shading resulted in a greater decrease in maximum water temperature than average water temperature.

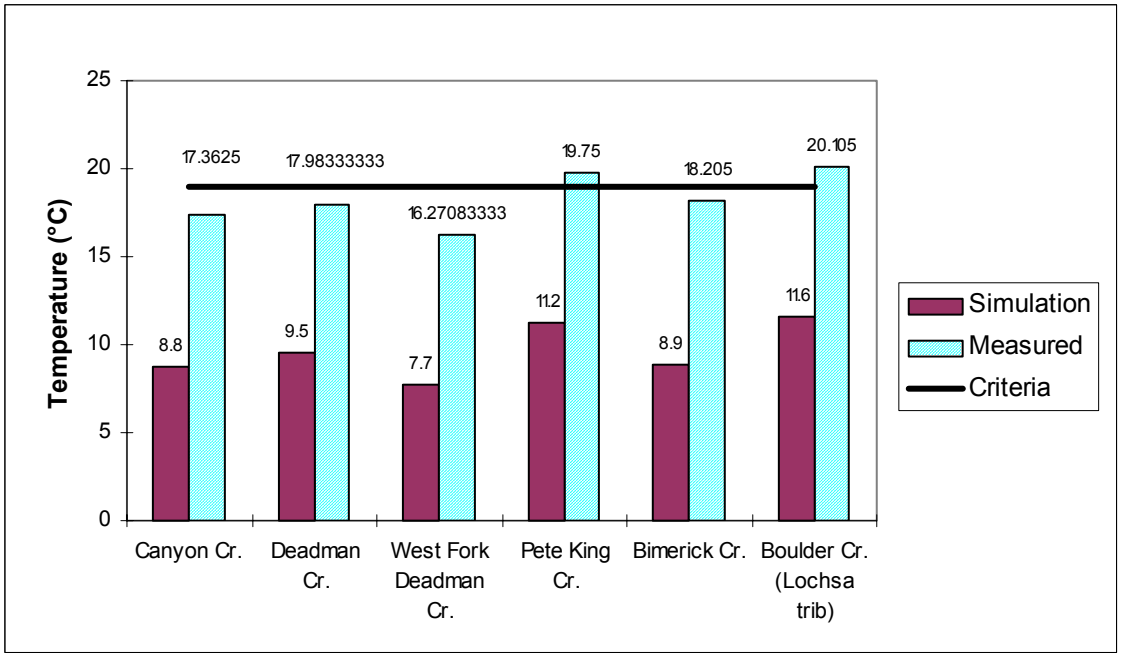
Decreasing all tributaries by an average of 8.53°C in the mid-summer is not a physically attainable goal. Figure 11 compares the measured average water temperature for August 1, 1994 with the simulated water temperature an the same date and the CWB criterion. Many of these tributaries are in unmanaged (i.e. Bimerick Creek) or wilderness (i.e. Boulder Creek) areas, and riparian cover is at or near maximum potential throughout the creeks. The simulated temperatures are represented at the mouths of each of the creeks, implying that temperatures would be even colder upstream. Two of the tributaries, Boulder Creek and Pete King Creek, have average measured water temperatures at the mouths of the creeks higher than the 19°C CWB criterion on August 1, 1994. As stated earlier, Boulder Creek drains a mostly un-managed area. Inducing a reduction of approximately 8.5°C on this day is very unlikely.

Table 13. Full Potential Canopy Cover Simulation Results for August 1, 1994

	Average Temperature Model			Maximum Temperature Model		
RKM	Baseline (°C)	Δ Temp Scenario 1 (°C)	Δ Temp Scenario 2 (°C)	Baseline (°C)	Δ Temp Scenario 1 (°C)	Δ Temp Scenario 2 (°C)
0.0	21.76	-1.33	-1.35	23.32	-1.86	-1.88
Target Δ Temp (°C)		2.76			1.32	

Note: Baseline—Existing canopy conditions
Scenario 1—Full potential canopy cover assuming the continued presence of U.S. Route 12
Scenario 2—Full potential canopy cover assuming passive restoration in place of U.S. Route 12

Figure 11. 1994 July-August Simulated vs. Measured Tributary Water Temperatures, Simulation 6



Discussion

Results of the model simulations indicate the following:

- Water temperatures in the Lochsa River exceed Idaho CWB temperature criteria on a 90th percentile air temperature day.
- The reduction in thermal load to meet Idaho CWB temperature criteria on a 90th percentile air temperature day would be approximately 2.167x10^{13} J/day (2.054x10^{10} BTU/day, 5.179x10^{9} C/day).
- Allowing passive restoration strategies to generate full potential canopy cover in riparian areas throughout the watershed would decrease average and maximum water temperatures but not enough to satisfy Idaho CWB temperature criteria.
- To satisfy Idaho daily average temperature criteria on a 90th percentile air temperature day without adjusting canopy cover, inflow temperatures for all tributaries in the Lochsa River watershed would have to be reduced by more than 8°C. This is unrealistic as the water temperatures at the mouths of many tributaries would be as low as 7.7° C or lower in the months of July and August.
- Air temperature, inflow temperature, and stream flow are the input variables that are most important in determining water temperature in the Lochsa River.

Conclusions

A water temperature model of the Lochsa River and four of its tributaries, Crooked Fork, White Sand Creek, Deadman Creek, and Canyon Creek, was developed based on measured meteorological and hydrologic data in 1994, 1997, and 1998. Other measured data used in the model included stream geometry, stream and watershed hydrology, local topography, and vegetation data. After a comprehensive evaluation process of several temperature models and hybrid model combinations, the model selected to simulate water temperatures was SNTEMP, developed by the U.S. Fish and Wildlife Service (Theurer et al. 1984).

Two models were developed: a 1994 model and a 1997-1998 model. These years were selected due to their range in hydrologic extremes: 1997 registered the second highest flow on record, while 1994 registered the sixth lowest flow on record. The year 1998 was considered an average flow year. The year 1998 was also selected because copious water temperature and flow data were collected during the summer months.

The models predicted average daily water temperatures throughout the modeled system with an average calibration error of less than 0.8°C and a validation error of 0.6°C. Maximum temperatures were also predicted using the maximum air temperature regression method within SNTEMP.

After the temperature models were calibrated and validated, a single-parameter sensitivity analysis (Chapra 1997) was performed to identify key input variables in the model. It was found that air temperature, inflow temperature, and incoming solar radiation, respectively, were the three variables to which the average temperature model was most sensitive. Incoming solar radiation, air temperature, and inflow temperature were the three variables that most influenced maximum temperature, respectively.

Several model runs were performed to simulate alternate scenarios. As a result of these simulations, it was found that water temperatures exceeded Idaho CWB temperature criteria throughout the Lochsa River on the 90th percentile air temperature day. Increasing riparian vegetative shading to full potential would decrease Lochsa River water temperature but not enough to meet Idaho CWB temperature criteria. Alternately, the water temperature of all tributaries to the Lochsa River would have to be reduced by more than 8°C in order for the Lochsa River to meet Idaho CWB temperature criteria. This latter step does not seem feasible, as it would require unrealistically low temperatures (e.g. 7.7°C or lower) in some tributaries during the hottest months of the year.

Canopy Cover Refinement

Introduction

Water temperature modeling of the Lochsa River and its tributaries Crooked Fork, White Sand Creek, Canyon Creek, and Deadman Creek, explored the effects of riparian canopy on water temperature (see discussion in the previous sections of this report). The original modeling study indicated that water temperatures in the Lochsa River exceeded the Idaho maximum daily temperature criteria for cold water biota (CWB) under existing canopy conditions. In addition, modeling of full potential canopy cover conditions (defined as the 80th percentile of tree height and crown closure for a large sample of measured stands in the vicinity of the study reach) showed that increased canopy cover would reduce stream temperatures, but that the Idaho CWB temperature criteria would still be exceeded.

The analysis showed the departure between existing and full potential canopy conditions for riparian canopy cover and the associated change in water temperature. However, this analysis did not distinguish between the differences in cover and resulting water temperature due to natural disturbances, such as lightning-caused fires, disease, and wind, and those due to human-caused disturbances, such as timber harvest and human-caused fires.

Since the Lochsa River is an unregulated stream with little disturbance other than State Highway 12 and modest timber harvest over the past 45 years, the reduction in shade provided by riparian canopy cover is the primary disturbance likely to increase water temperature. Thus, the question to be answered is "what fraction of the departure between current canopy conditions and full potential canopy in the riparian zone is due to natural disturbances, and what fraction is due to human disturbances?" This question is investigated in the present study by quantifying the difference in riparian canopy conditions for stands of trees that are undisturbed or have natural changes and those that have human-caused changes for the same modeling period as the previous study (July and August of 1994, 1997, and 1998). The SNTEMP model was used to determine the difference in stream temperatures that may then be attributed to human activity. Thus, the objective of this study is to assess the difference in water temperatures in the Lochsa River and four tributaries based on changes in riparian vegetation. Differences between natural and human-caused disturbances in vegetation are evaluated.

Methods

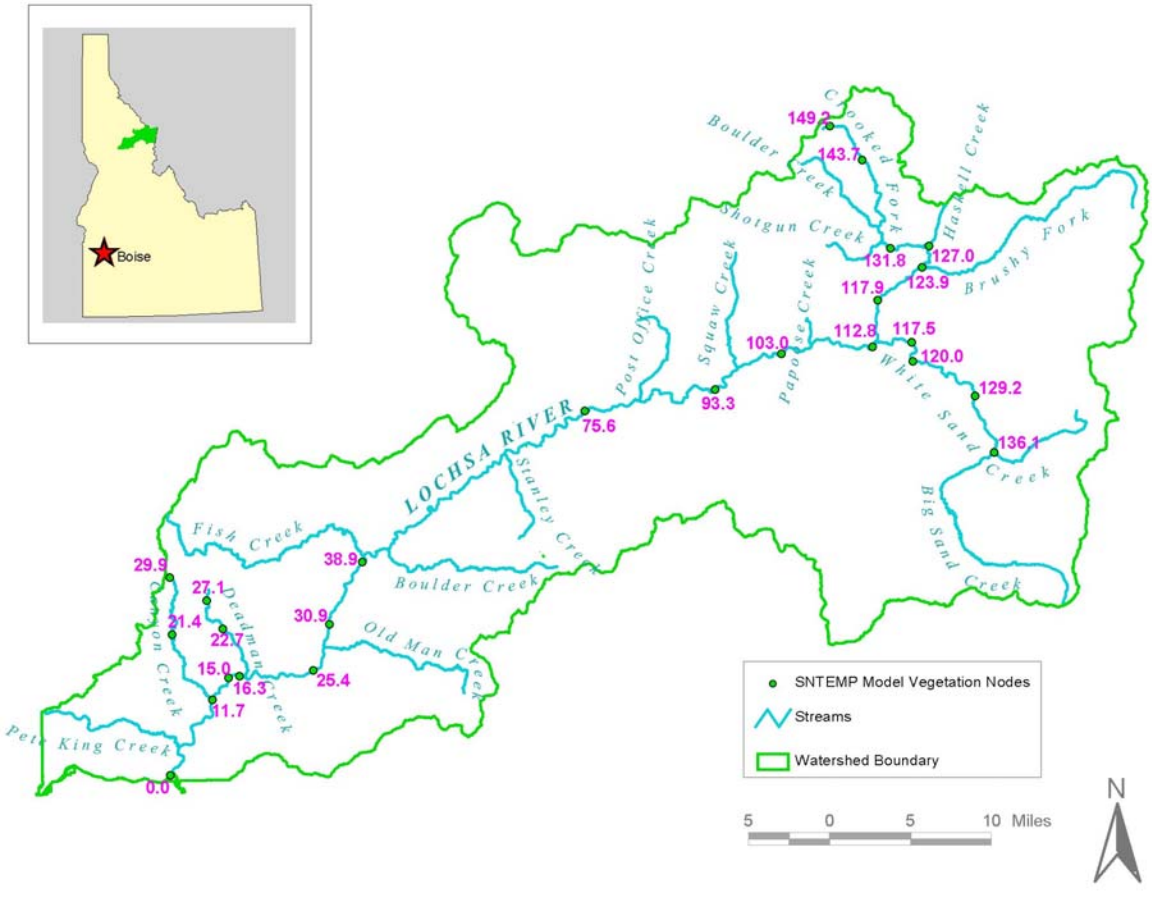
Clearwater National Forest 2001 Forest Inventory Vegetation Data, known as the "cstands database," were used for this study. The data were stratified based on location, defined in Table 10, and change activities, defined as natural or human-caused disturbances that affect the trees in a stand. Change activities were recorded in the cstands database by USFS personnel during on-site field visits. The stands were identified as having human-caused disturbances, natural disturbances, or no disturbances by using codes that identified the cause of the disturbance. The codes were linked to the change activities (either having human-caused, natural, or no disturbances) as shown in Table 14. Codes that begin with the numbers "49" are typically burning activities that follow a harvest. However, the cstands database does not indicate when the harvest was or to what extent the stand was harvested. In these cases, the change activities were considered to be fire-caused.

The stands were then organized into the riparian vegetation reaches defined in the shade file of the original SNTEMP model (Figure 12).

Table 14. Clearwater National Forest Vegetation Change Codes

Field Code	Description	Was Cause Of Disturbance Fire, Harvest, Or Natural?	Change Activity
4113	Human Caused	Harvest	Stand
4230	Human Caused	Harvest	Sanitation/Salvage
4250	Natural	Natural	Natural Changes
4260	Human Caused	Fire	Man Caused Fire Damage
4270	Human Caused	Harvest	Permanent Land Clearing
4471	Human Caused	Fire	Burning
4976	Human Caused	Fire	Burn Hand Piles
4978	Human Caused	Fire	Broadcast Burn
4985	Human Caused	Fire	Wildlife Burn
4986	Human Caused	Fire	Hand Piling
4987	Human Caused	Fire	Fireline Construction
4994	Human Caused	Fire	Fuelbreak
4996	Human Caused	Fire	Natural Abatement
4997	Human Caused	Fire	Burn Landings

Figure 12. Map of Lochsa River Basin and Locations of Vegetation Reaches



As was done for the full potential canopy cover simulation, only the crown closure and tree height parameters from the database were used in the study. The crown diameter and distance from bank parameters were not changed because new information for these parameters was not available. Average crown closure and tree height were calculated for each activity grouping of stands in each vegetation reach. The activity grouping of stands were "human-caused disturbances," "no human-caused disturbances," and "existing conditions." These are not the same as the vegetation codes. Stands that were identified as possessing human-caused disturbances were considered in the "human-caused disturbances" grouping. Stands that were identified as possessing natural disturbances were considered in the "no human-caused disturbances" grouping along with those stands that were not identified as possessing any disturbances. The "existing conditions" grouping included all measured stands.

Also as in the original study, the crown closure parameter in the cstands database was used to represent the canopy density parameter in the SNTEMP shade input file. From this point forward, the crown closure parameter shall be referred to as canopy density. See the Input Data section of this report for details on the data reduction procedure for the canopy density and tree height parameters.

The new canopy density and tree height data were entered into a new set of shade files in the SNTEMP model for the existing conditions and no human-caused disturbances scenarios. Model output of the two scenarios were tabulated and graphed with the full potential canopy cover scenario from the original study.

Three model scenarios were run. The existing conditions scenario represented the existing condition of the riparian canopy at the time of data collection, 2001 in this case, and used the "existing conditions" shade file. The no human-caused disturbances scenario represented the riparian canopy if human-caused disturbances had not occurred, and used the "no human-caused disturbances" shade file. The full potential canopy cover scenario was the 80th percentile of tree height and canopy cover for the dominant habitat type of a large local sample of stands. This scenario was unchanged from the original study.

The new shade files were run with the input files of the original models (1994 and 1997-1998) to predict water temperatures. The predicted water temperatures for the existing conditions and no human-caused disturbances scenarios were tabulated and graphed with the water temperatures of the full potential canopy cover scenario.

Results

Vegetation Data

Based on two single factor ANOVAS, the full potential canopy cover grouping had significantly higher values of average canopy density and average height ($\alpha = 0.05$, $P<0.0001$) than the no human-caused disturbances and existing conditions groupings (Table 15). The existing conditions grouping, representing the existing conditions of the riparian canopy at the time of data collection had lower values of average height and significantly lower values of average canopy density ($\alpha = 0.05$, $P<0.0007$) than the no human-caused disturbances grouping. However, there were instances where average canopy density and height values were higher than those for the no human-caused disturbances grouping when the stands with human-caused disturbances possessed average parameter values greater than those of the existing conditions grouping (the vegetation reach average). This situation was rare, but happened with one reach in the Crooked Fork subbasin for average canopy density, two reaches in the Lochsa River basin for average canopy density, and one reach in the Lochsa River basin for both average canopy density and average tree height (Table 15).

Table 15. Lochsa River Basin Measured Vegetation Values

Reach	Average Canopy Density (%)					Average Tree Height (m)				
	Existing conditions	Human-caused fire damage stands only	Harvested stands only	Stands with no disturbances	Full potential canopy cover	Existing conditions	Human-caused fire damage stands only	Harvested stands only	Stands with no disturbances	Full potential canopy cover
Crooked Fork										
149.2 to 143.7	50.5 (n=20)	--	--	50.5 (n=20)	63	24.2 (n=20)	--	--	24.2 (n=20)	23.3
143.7 to 131.8	58.8 (40)	--	--	58.8 (40)	63	24.7 (40)	--	--	24.7 (40)	23.3
131.8 to 127.0*	45.0 (2)	--	--	--	63	29.0 (2)	--	--	--	23.3
127.0 to 123.9	45.4 (11)	0.0 (n=1)	47.6 (n=7)	55.3 (3)	54	21.9 (11)	0.0 (1)	22.3 (7)	28.5 (3)	27.3
123.9 to 117.9	58.6 (24)	--	50.2 (6)	61.3 (18)	74	28.7 (24)	--	26.5 (6)	29.4 (18)	32.9
117.9 to 112.8	61.2 (9)	--	66.5 (2)	59.7 (7)	74	32.0 (9)	--	27.6 (2)	33.3 (7)	32.9
White Sand Creek										
136.1 to 129.2	49.9 (33)	--	--	49.9 (33)	71	24.5 (33)	--	--	24.5 (33)	29.3
129.2 to 120.0	46.6 (21)	--	--	46.6 (21)	55	20.8 (21)	--	--	20.8 (21)	26.9
120.0 to 117.5	59.2 (19)	--	--	59.2 (19)	54	22.6 (19)	--	--	22.6 (19)	28.1
117.5 to 112.8	75.5 (4)	--	73.0 (1)	76.3 (3)	54	28.7 (4)	--	21.9 (1)	30.9 (3)	28.1
Lochsa River										
112.8 to 103.0	65.4 (21)	--	43.5 (5)	72.0 (16)	75	27.4 (21)	--	23.3 (5)	28.7 (16)	30.7
103.0 to 93.3	49.9 (72)	52.8 (4)	51.9 (5)	49.5 (63)	75	23.0 (71)	31.6 (4)	19.6 (5)	22.8 (63)	30.7
93.3 to 75.6	55.3 (73)	66.0 (2)	29.8 (3)	57.9 (66)	75	22.0 (73)	29.3 (2)	13.9 (3)	22.8 (66)	30.7
75.6 to 38.8	49.1 (193)	29.4 (18)	--	48.2 (175)	67	20.5 (193)	15.7 (18)	--	21.1 (175)	27.0
38.8 to 30.9	39.8 (53)	0.0 (1)	--	42.1 (50)	67	18.2 (53)	0.0 (1)	--	19.2 (50)	27.0
30.9 to 25.4	37.2 (41)	12.0 (1)	--	41.4 (36)	67	17.2 (41)	6.7 (1)	--	19.2 (36)	27.0
25.4 to 16.3	40.0 (52)	17.7 (5)	--	39.8 (42)	67	19.0 (52)	15.4 (5)	--	21.5 (42)	27.0
16.3 to 15.0	33.8 (4)	0.0 (1)	--	45.0 (3)	67	17.9 (4)	0.0 (1)	--	23.8 (3)	26.8
11.7 to 15.0	47.8 (18)	13.7 (2)	--	53.8 (16)	67	24.2 (18)	12.3 (2)	--	26.3 (16)	26.8
0.0 to 11.7	44.1 (45)	--	--	44.1 (45)	67	21.9 (45)	--	--	21.9 (45)	26.8
Deadman Creek										
27.1 to 22.7	43.7 (17)	--	29.0 (7)	51.5 (10)	68	22.1 (17)	--	5.3 (7)	31.1 (10)	31.0
22.7 to 16.3	47.7 (32)	38.7 (3)	0.0 (1)	51.2 (28)	68	25.6 (32)	27.9 (3)	0.0 (1)	26.8 (28)	31.0
Canyon Creek										
29.9 to 21.4	53.5 (34)	36.0 (1)	48.6 (14)	59.1 (17)	68	22.2 (34)	5.6 (1)	11.1 (14)	31.4 (17)	31.0
21.4 to 11.7	57.2 (38)	24.0 (1)	28.7 (3)	59.2 (35)	68	32.6 (38)	2.0 (1)	10.5 (3)	34.4 (35)	31.0

* - This stand was burned in the 2000 Crooked Fire. Vegetation data collected prior to 2000 were used for this analysis.

In addition, the no human-caused disturbances grouping was broken down to "human-caused fire disturbances" and "harvest activities." Some vegetation reaches contained both fire and harvest disturbances, several reaches had only one of the two human-caused disturbances, and some reaches had no human-caused disturbances. For example, of the four vegetation reaches that represent White Sand Creek, the three upstream reaches did not possess human-caused disturbances. For these vegetation reaches, the existing conditions data were equal to the no human-caused disturbances data.

Model Output

Generally, average water temperatures in the Lochsa River and its tributaries were lowest in the full potential canopy cover scenario and highest in the existing conditions scenario. For White Sand Creek, the existing conditions and no human-caused disturbances output were close to identical, as were the input data for the two scenarios (see discussion above). The output data are given in Table 16 and displayed in Figures 13, 14, and 15.

Discussion

Vegetation Data

The purpose of this study was to assess water temperature differences due to naturally occurring and human-caused disturbances of the riparian vegetation of the Lochsa River and four of its tributaries. The key to the study is the accuracy and level of detail of the collected vegetation data. These data were collected by the Clearwater National Forest and entered into the Forest Inventory database.

Historically, large fires have consumed much of the Lochsa River basin. Fires prior to 1910 are not well documented, and only the largest fires in the 20th Century are delineated by their boundaries (Figure 16). Pre- and post-fire stand data are not available for these fires. As such, there is no way of knowing which stands within the fire boundaries were burned, and at what intensity (Wulf 2002). Therefore, current parameters describing forest stands that have not been disturbed by humans are categorized as "having no historical disturbances or natural disturbances only." This assumes, as is generally believed, that the largest fires in the 20th Century were started by lightning strikes and not by human activities (Wulf 2002).

A paired t-test of the new vegetation data (Table 15) with the vegetation data from the previous study (Table 10) shows that the average canopy density parameter has significantly increased since the original data were collected ($\alpha = 0.05$, $P<0.0001$). This is ostensibly due to tree growth. However, data collection and data management may play a part in the changes in average values for an entire stand.

A sizeable fire occurred in the Crooked Fork basin in the summer of 2000, known as the Crooked Fire. The fire engulfed portions of the Haskell Creek, Rock Creek, and Crooked Fork drainages (Figure 17) and completely burned nearly every stand within its boundaries. On the Crooked Fork, the fire was contained entirely within one vegetation reach, RKM 131.8-127.0. For this reach, the vegetation data for the previous study was used for the existing conditions scenario because the previous vegetation data better describes the forest conditions for this reach during the modeling periods, July and August of 1994, 1997 and 1998. The no human-caused disturbances scenario was not run for the affected reach.

Figure 18 shows typical vegetation data, used as input for the shade files, in this case for the downstream vegetation reach of Canyon Creek, RKM 21.4 to 11.7. In this reach, the average canopy density is less than that of the full potential canopy cover and stands that have no human-caused disturbances. The average value is decreased by the low canopy density values in the harvested stands and the stands disturbed by human-caused fires. This is also the case for average tree height, except that the value for the no human-caused disturbances average is higher than that of the full potential. There are several possible explanations for this. First, the "full potential" value is actually the 80th percentile for the

Table 16. Predicted Water Temperatures at Selected Locations in Lochsa River Basin

Model	Stream	River KM	Average Temperature Model (°C)			Maximum Temperature Model (°C)		
			Existing Conditions	No Human-Caused Disturbances	Full potential canopy cover	Existing Conditions	No Human-Caused Disturbances	Full potential canopy cover
1994 (low flow)	Crooked Fork	117.9	10.99	10.91	10.44	12.42	12.20	10.88
	White Sand Creek	112.8	14.04	14.00	13.66	16.37	16.16	15.95
	Deadman Creek	16.3	14.38	14.06	12.84	16.83	16.26	13.75
	Canyon Creek	11.7	13.57	13.42	12.98	14.80	14.55	13.62
	Lochsa River	78.4	15.70	15.64	14.70	18.06	17.94	16.03
	Lochsa River	42.3	17.53	17.49	16.25	19.96	19.90	17.92
	Lochsa River	0.0	18.88	18.83	17.54	20.81	20.75	18.79
1997 (high flow)	Crooked Fork	112.8	10.46	10.43	10.25	11.79	11.66	10.87
	White Sand Creek	112.8	13.10	13.08	12.88	15.33	15.17	15.09
	Deadman Creek	16.3	14.35	14.19	13.64	16.72	16.36	14.86
	Canyon Creek	11.7	13.09	12.98	12.67	14.63	14.43	13.70
	Lochsa River	78.4	14.07	14.03	13.45	16.05	15.97	14.64
	Lochsa River	42.3	15.71	15.67	14.88	17.73	17.69	16.33
	Lochsa River	0.0	16.92	16.88	16.07	18.43	18.39	17.11
1998 (average flow)	Crooked Fork	112.8	11.78	11.74	11.51	13.22	13.07	12.18
	White Sand Creek	112.8	14.91	14.88	14.58	17.53	17.33	17.17
	Deadman Creek	16.3	15.04	14.86	14.24	17.39	17.01	15.43
	Canyon Creek	11.7	13.59	13.51	13.28	14.85	14.69	14.11
	Lochsa River	78.4	16.24	16.19	15.48	18.44	18.35	16.82
	Lochsa River	42.3	18.12	18.08	17.13	20.34	20.30	18.74
	Lochsa River	0.0	19.28	19.24	18.28	20.99	20.95	19.47

Figure 13. 1994 Average Predicted Water Temperatures in the Lochsa River

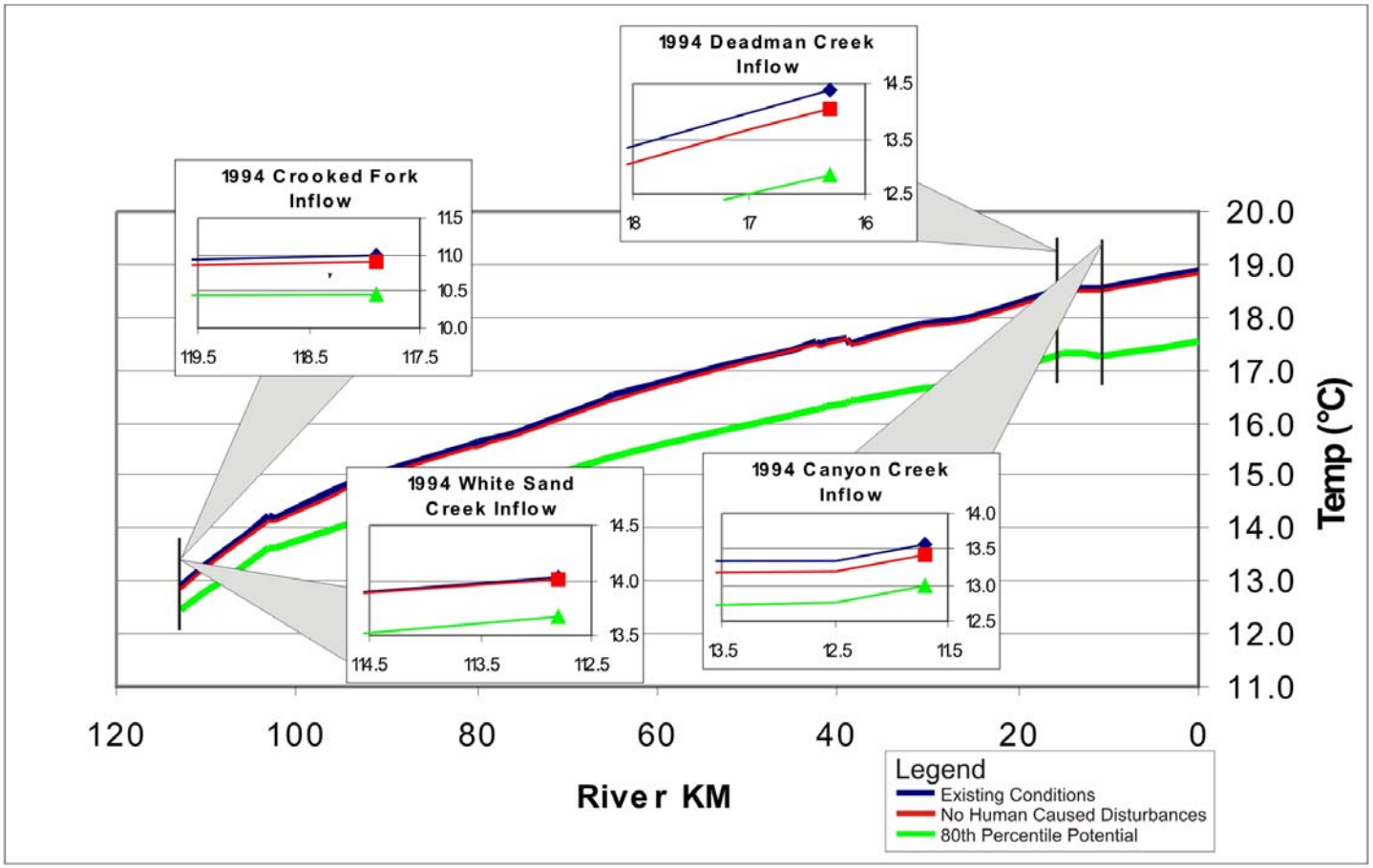


Figure 14. 1997 Average Predicted Water Temperatures in the Lochsa River

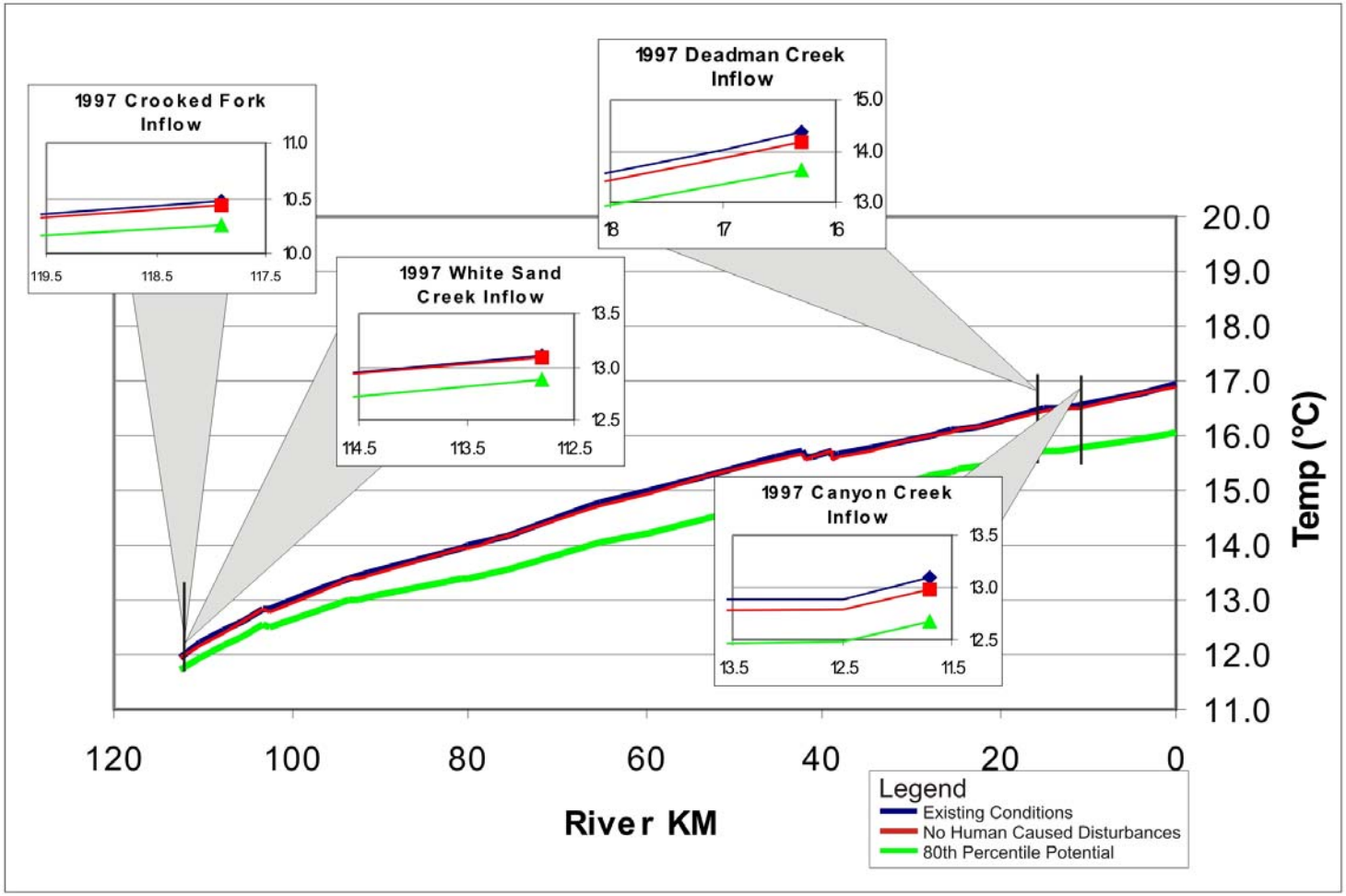


Figure 15. 1998 Average Predicted Water Temperatures in the Lochsa River

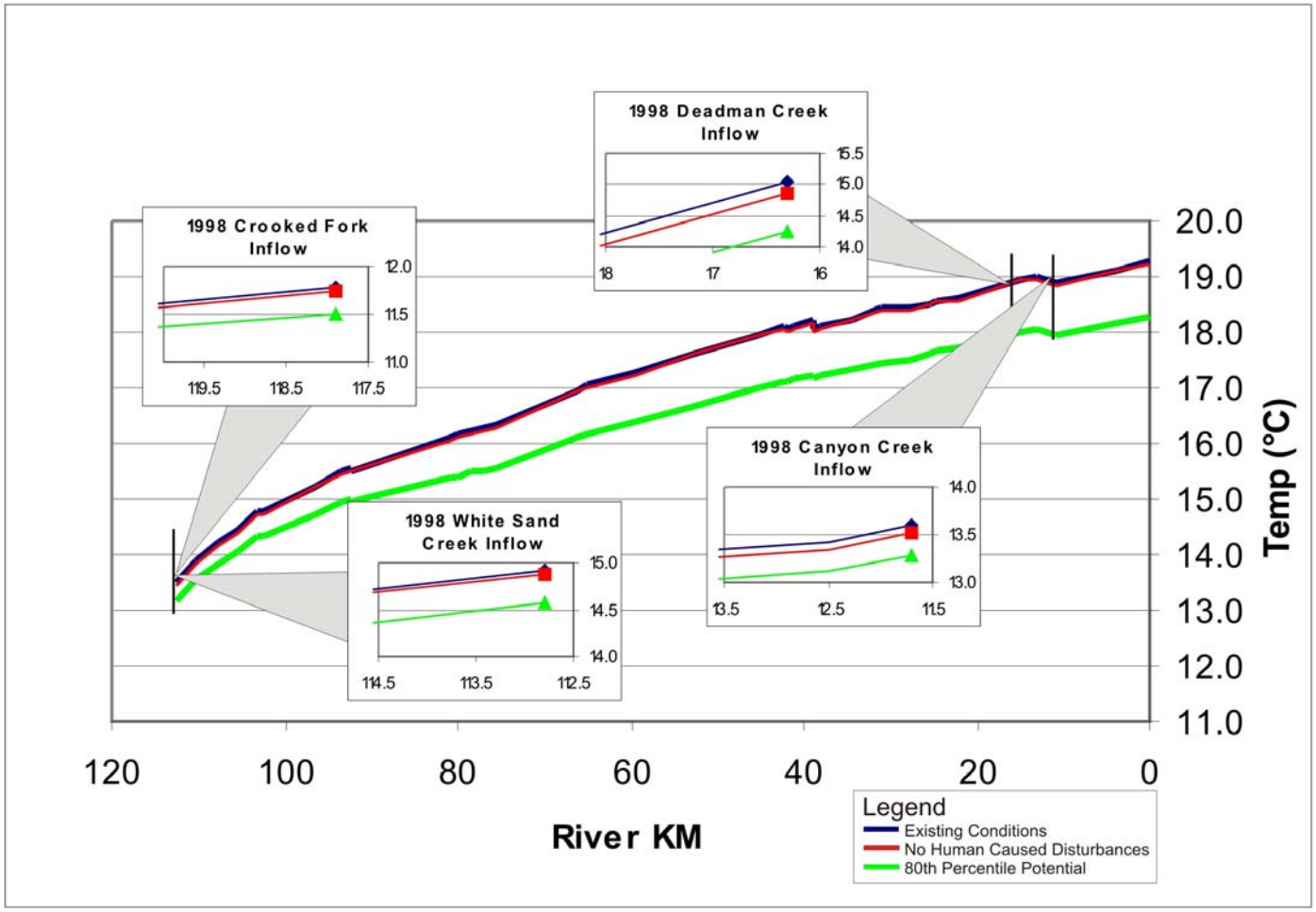


Figure 16. Boundaries of Historical Fires in the Lochsa River Basin

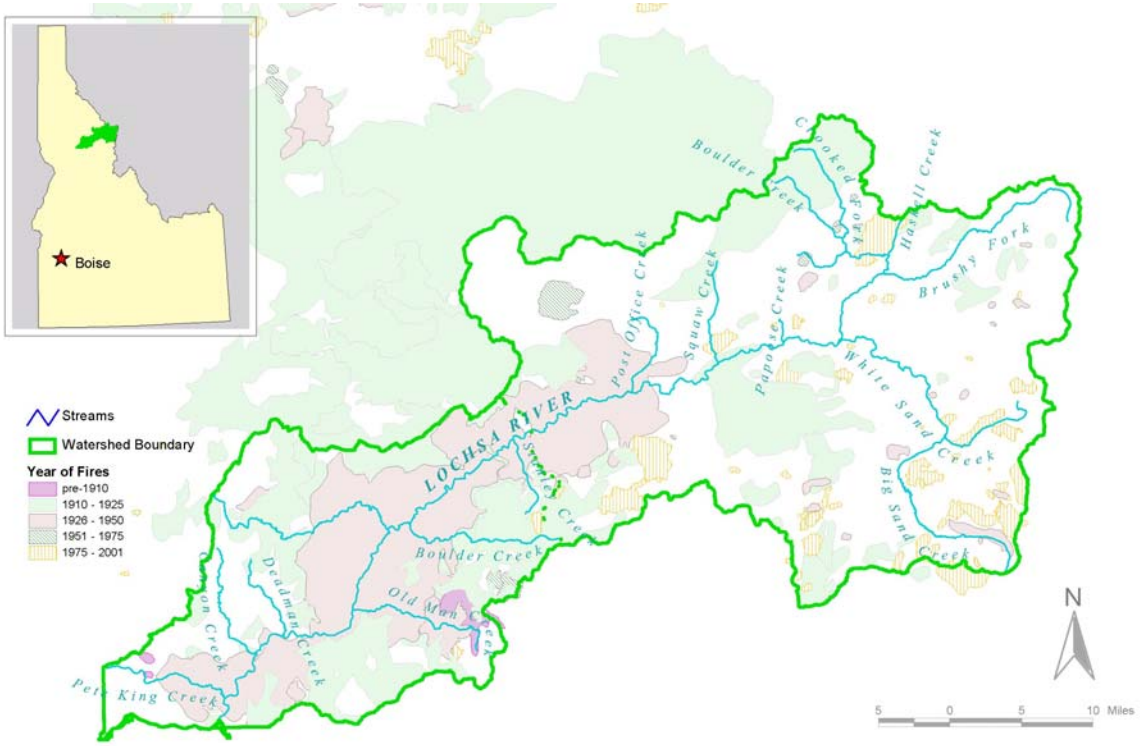
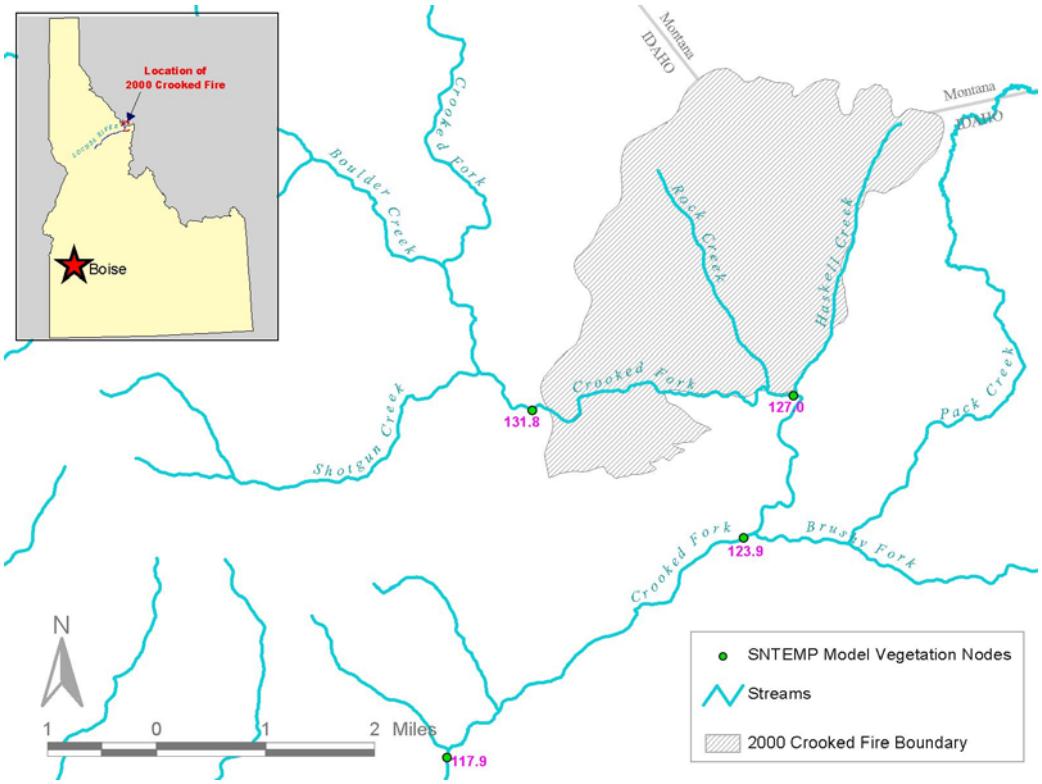


Figure 17. Boundaries of the 2000 Crooked Fire



dominant habitat type of a large local sample of stands. The tree heights in this vegetation reach may exist in the 85th percentile, for example, of the same sample. Another explanation could be that the full potential value represents the dominant habitat type (and the corresponding range of species) for that area, while the reach values include all habitat types. The different habitat types present in the reach can increase or decrease the average reach values of canopy density and tree height relative to the full potential values of the dominant habitat type.

Undisturbed stands generally possessed much higher values of canopy density and tree height than stands with human-caused disturbances (Figure 19). However, the difference in average canopy density and average tree height between undisturbed stands and the existing condition was much less distinct for most vegetation segments. For the Lochsa River, differences in these parameters varied significantly from upstream to downstream based on t-tests ($\alpha = 0.05$, $P < 0.03$ for both parameters). There were a few segments with existing conditions values slightly greater than those with no human-caused disturbances for average canopy density (Figure 19, three of 10 reaches) and average tree height (Figure 20, one of 10 reaches). The values of these parameters for both scenarios never reached those of the full potential canopy cover scenario for the Lochsa River. Average values for both parameters generally decreased in the downstream direction, then trended upwards again near the vicinity of the confluence with Deadman Creek.

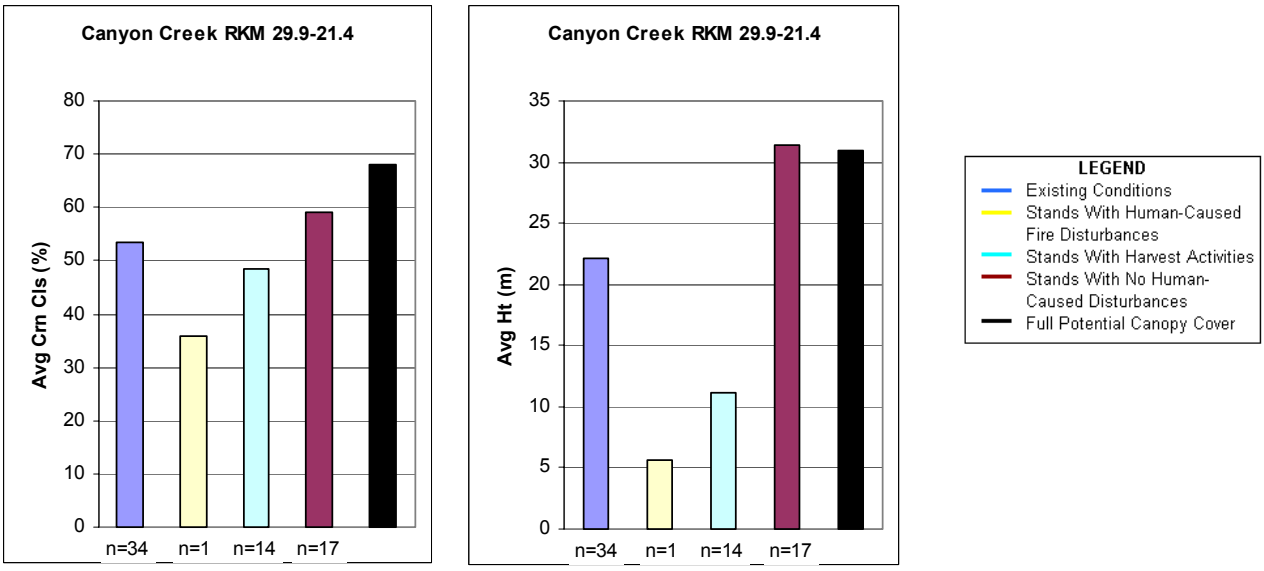
Model Output

Riparian canopy conditions play a major role in water temperatures in the Lochsa River basin, as shown in the original study. In most vegetation reaches, full potential canopy cover possessed higher values of average density and average tree height than both the existing conditions and the conditions with no human-caused disturbances. There were a few exceptions to this, located in the uppermost reaches of Crooked Fork and White Sand Creek and the lower reach of Canyon Creek, but none on the Lochsa mainstem. The result was that water temperatures throughout the Lochsa River basin were lower for the full potential canopy cover model than for the existing conditions and the no human-caused disturbances models. The departure was greater at the mouth of the Lochsa River, where there was an average temperature difference of 1.34°C between the existing conditions and the full potential canopy cover models in July and August of the low flow year of 1994, than upstream in the system, where average temperature differences were 1.00°C, 0.55°C, and 0.37°C at the Mocus Point Packbridge on the Lochsa River, the mouth of Crooked Fork, and the mouth of White Sand Creek, respectively, for the same modeling period (Table 16 and Figure 21).

The difference in water temperatures between the existing conditions and no human-caused disturbances models was much less than between the existing conditions and full potential canopy cover models. The temperature difference was almost zero at the mouth of White Sand Creek because there are very few human-caused disturbances in the White Sand Creek subbasin. There were more disturbances elsewhere in the Lochsa River basin, and predicted temperature differences were more apparent in these locations. In July and August of the low flow year of 1994, for example, the average temperature differences were 0.32°C, 0.08°C, and 0.06°C at the mouth of Deadman Creek, the mouth of Crooked Fork, and at both the Mocus Point Packbridge and the mouth of the Lochsa River, respectively (Table 16 and Figure 21).

Based on the above analysis, natural disturbances accounted for 96.3%, 95.3%, and 96.0% of the departure of existing water temperatures from the full potential canopy cover at the mouth of the Lochsa River, and human-caused disturbances accounted for the remainder during the low flow year of 1994, the high flow year of 1997, and the average flow year of 1998, respectively (Table 17). The percentages of maximum temperature

Figure 18. Measured Vegetation Parameters in Canyon Creek, RKM 29.9-21.4



departure due to human-caused disturbances for White Sand Creek are relatively high because the maximum temperature difference between the existing conditions and the full potential conditions for White Sand Creek are relatively small. As such, the small departure in temperature as a result of the few human-caused disturbances in the basin calculate as a large percentage.

Based on t-tests of the 1994, 1997, and 1998 models, human-caused disturbances factored more upstream in the system and in the modeled tributaries ($\alpha = 0.05$, $P<0.010$, $P<0.021$, $P<0.017$). Under existing conditions, the mouth of White Sand Creek exhibits maximum water temperatures near that of the full potential canopy cover scenario (Table 16). Although maximum water temperatures as a result of human-caused disturbances contributes a relatively large percentage of the deviation from full potential canopy cover temperature conditions, the overall deviation in water temperature is small, ranging from 0.16°C to 0.21°C.

A reason that the water temperatures of the existing conditions of the Lochsa subbasin were so much greater than those of the full potential canopy cover scenario, and relatively close to those of the no human-caused disturbances scenario, is that there are relatively few stands in riparian zone of the Lochsa River (and its tributaries) that have been disturbed by human causes. Of the 876 riparian stands used in this analysis, 94 were disturbed by human causes. The remaining 782 stands were subject to natural conditions. Only three of these 782 stands exhibited obvious disturbances due to natural causes. However, this does not take into account possibility that the undisturbed riparian stands were subject to unseen natural stresses that were not apparent in the collected data.

While the water temperatures of the existing condition and no human-caused disturbance models differ greatly than those of the full potential canopy cover model, there is little difference in water temperatures between the existing condition and the no human-caused disturbance models. However, the mechanism for the differences is exactly the same. Increased canopy cover, in the form of

Figure 19. Average Canopy Density in Riparian Vegetation Reaches of Lochsa River

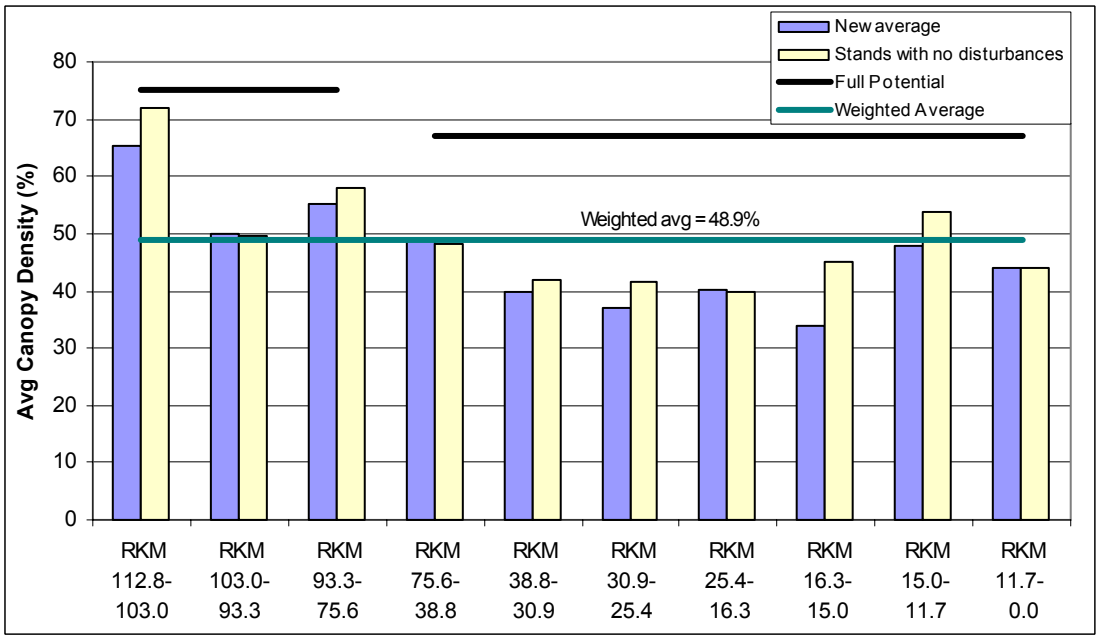


Figure 20. Average Tree Height in Vegetation Reaches of Lochsa River

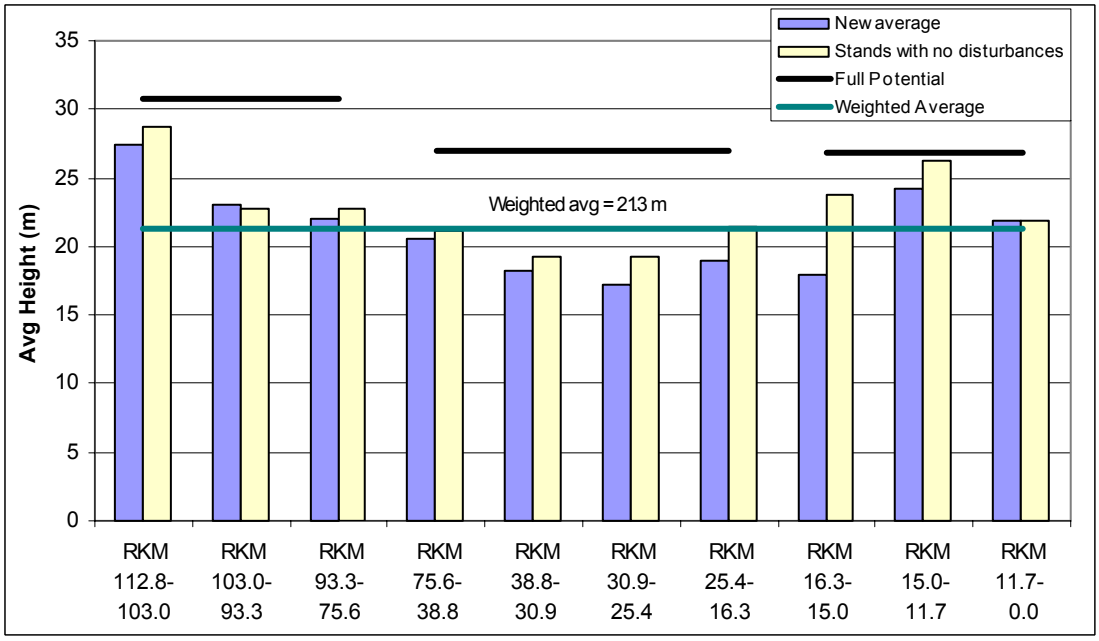


Figure 21. Predicted Water Temperatures at Selected Locations in Lochsa River Basin

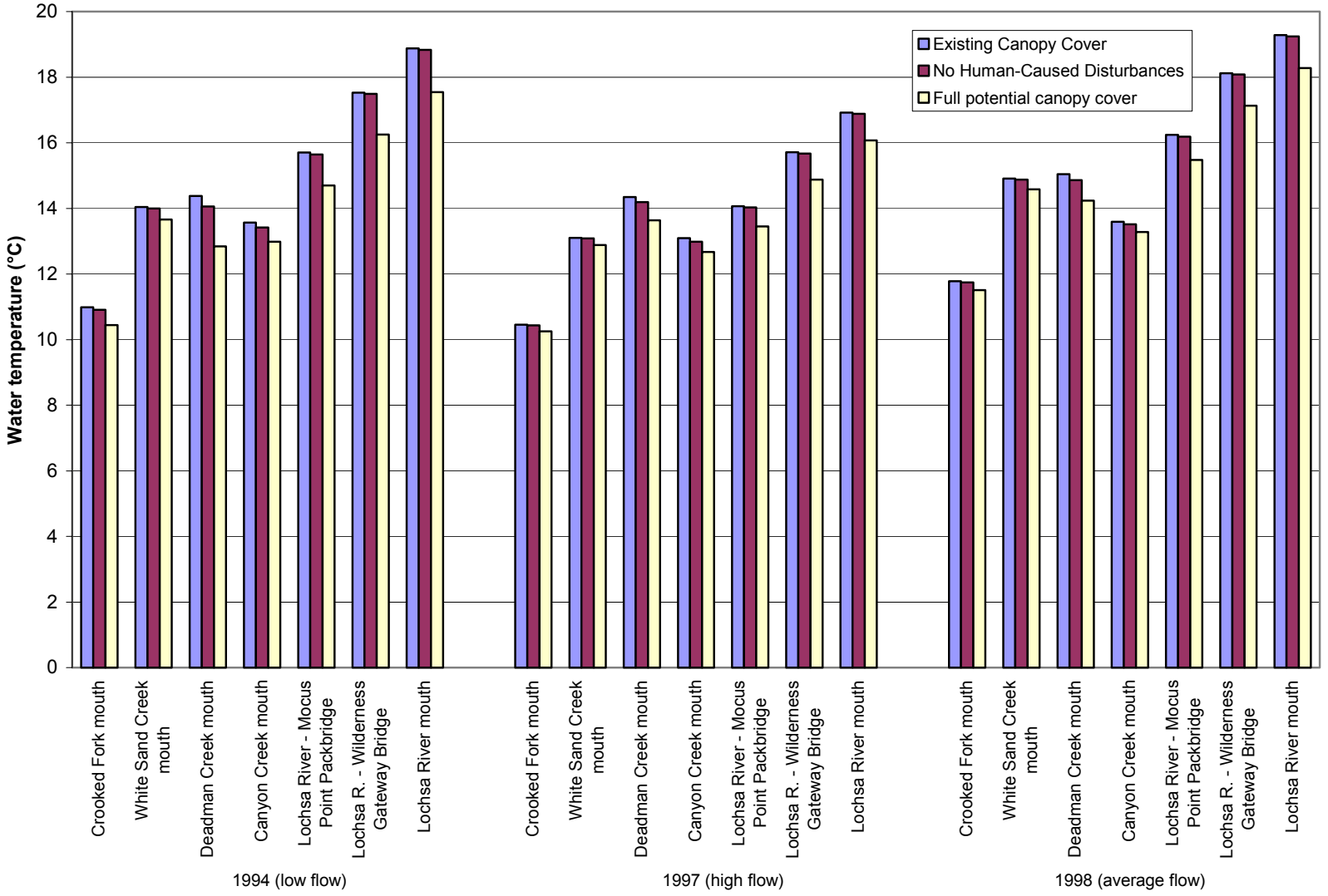


Table 17. Fraction of Temperature Departure From Full Potential Canopy Cover Model Due To Natural or Human-Caused Disturbances

Model	Stream	River KM	Average Temperature Model (°C)		Maximum Temperature Model (°C)	
			Due to natural disturbances	Due to human-caused disturbances	Due to natural disturbances	Due to human-caused disturbances
1994 (low flow)	Crooked Fork	117.9	85.5%	14.5%	85.7%	14.3%
	White Sand Creek	112.8	89.5%	10.5%	50.0%	50.0%
	Deadman Creek	16.3	79.2%	20.8%	81.5%	18.5%
	Canyon Creek	11.7	74.6%	25.4%	78.8%	21.2%
	Lochsa River	78.4	94.0%	6.0%	94.1%	5.9%
	Lochsa River	42.3	96.9%	3.1%	97.1%	2.9%
	Lochsa River	0.0	96.3%	3.7%	97.0%	3.0%
1997 (high flow)	Crooked Fork	112.8	85.7%	14.3%	85.9%	14.1%
	White Sand Creek	112.8	90.9%	9.1%	33.3%	66.7%
	Deadman Creek	16.3	77.5%	22.5%	80.6%	19.4%
	Canyon Creek	11.7	73.8%	26.2%	78.5%	21.5%
	Lochsa River	78.4	93.5%	6.5%	94.3%	5.7%
	Lochsa River	42.3	95.2%	4.8%	97.1%	2.9%
	Lochsa River	0.0	95.3%	4.7%	97.0%	3.0%
1998 (average flow)	Crooked Fork	112.8	85.2%	14.8%	85.6%	14.4%
	White Sand Creek	112.8	90.9%	9.1%	44.4%	55.6%
	Deadman Creek	16.3	77.5%	22.5%	80.6%	19.4%
	Canyon Creek	11.7	74.2%	25.8%	78.4%	21.6%
	Lochsa River	78.4	93.4%	6.6%	94.4%	5.6%
	Lochsa River	42.3	96.0%	4.0%	97.5%	2.5%
	Lochsa River	0.0	96.0%	4.0%	97.4%	2.6%

increased tree height and canopy density, blocks a fraction of incoming solar radiation to the water surface that would otherwise convert its energy to heat and contribute to increased water temperatures. Predicted maximum temperatures responded similarly to predicted average temperatures. Maximum water temperature model output is given in Table 16.

One aspect of this study that may have contributed to possible inaccuracies is that 2001 vegetation data was used with 1994, 1997 and 1998 meteorological and water temperature data in the models. While the stands remained relatively unchanged between 1994 and 2001, save for the vegetation reach burned in the 2000 Crooked Fire, undoubtedly some growth was measured as increases in average tree height and average canopy density (crown closure) between the old and new data. This growth may account for slightly lower predicted water temperatures in the modeled streams. The new models were not recalibrated to account for the new vegetation data. As tree growth is likely to be relatively uniform throughout the Lochsa River basin, the growth would not affect the conclusions of the study.

Conclusion

This goal of this study was to find what fraction of the departure between current canopy conditions and full potential canopy cover in the riparian zone was due to natural disturbances, and what fraction was due to human disturbances. It was found that between 75% and 97% of the difference in water temperature between the existing and full potential canopy cover conditions in the Lochsa River basin is due to natural disturbances. While human-caused disturbances increase water temperatures in the basin, natural disturbances are a more dominant factor in the difference between existing condition and full potential canopy cover water temperatures.

The influence of human-caused disturbances on average temperatures is most apparent in Deadman and Canyon Creeks, and least apparent in the mainstem Lochsa River. In White Sand Creek, existing condition average and maximum water temperatures were close to those for the full potential condition because there were few stands with observed human-caused disturbances and no stands with observed natural disturbances.

The disparity in the departures of water temperature values between the existing conditions and the maximum potential canopy cover scenarios, and the existing conditions and the no human-caused disturbances scenarios, provides a glimpse into the mechanism of the riparian zone in the Lochsa River basin. While human-caused disturbances decrease the average canopy densities and tree heights of the stands they affect, and thereby increase the water temperature of the stream they are adjacent to, only 10.7% of the stands in the Lochsa basin had been subject to human-caused disturbances. In contrast, all of the stands were subject to naturally occurring physical and biological processes, including snow, wind, rain, fire, disease, insects, extreme heat and cold, temperature fluctuations, over- and under-exposure to sunlight. These natural factors, as well as undocumented fires prior to 1910 and the poorly documented fires in the early 20th Century, have served to keep average stand values of canopy density and tree height below the maximum potential values. These factors, in turn, led to the majority of the departures in water temperature between existing conditions and the full potential canopy cover scenario. While the departure in average water temperature due to human-caused disturbances is discernable in all but the White Sand Creek subbasin, the reduction in canopy cover due to natural factors is apparently the driving force in higher water temperatures in the Lochsa River basin.

References

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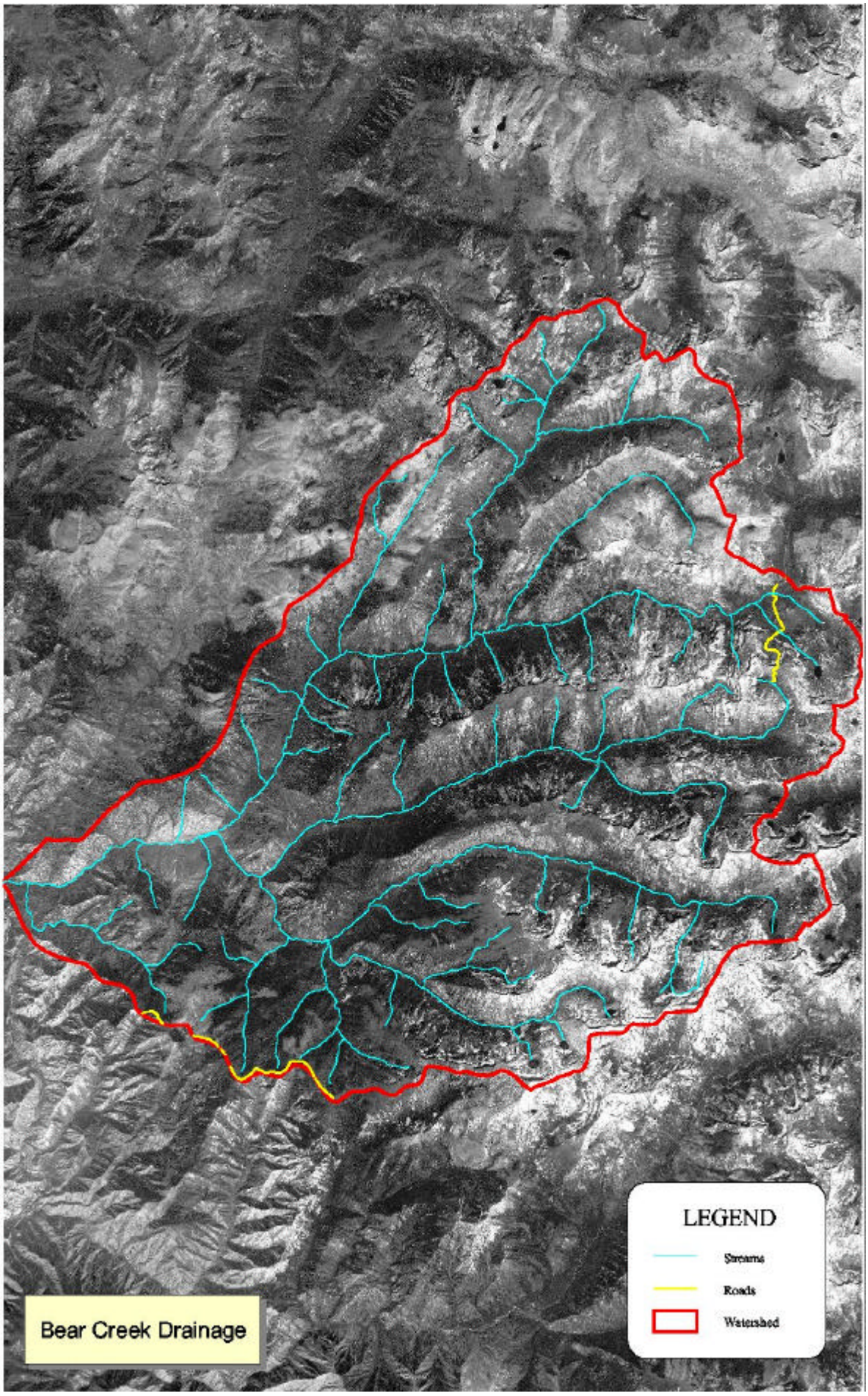
Summary of Charateristics for Watersheds Identified as *a priori* Natural

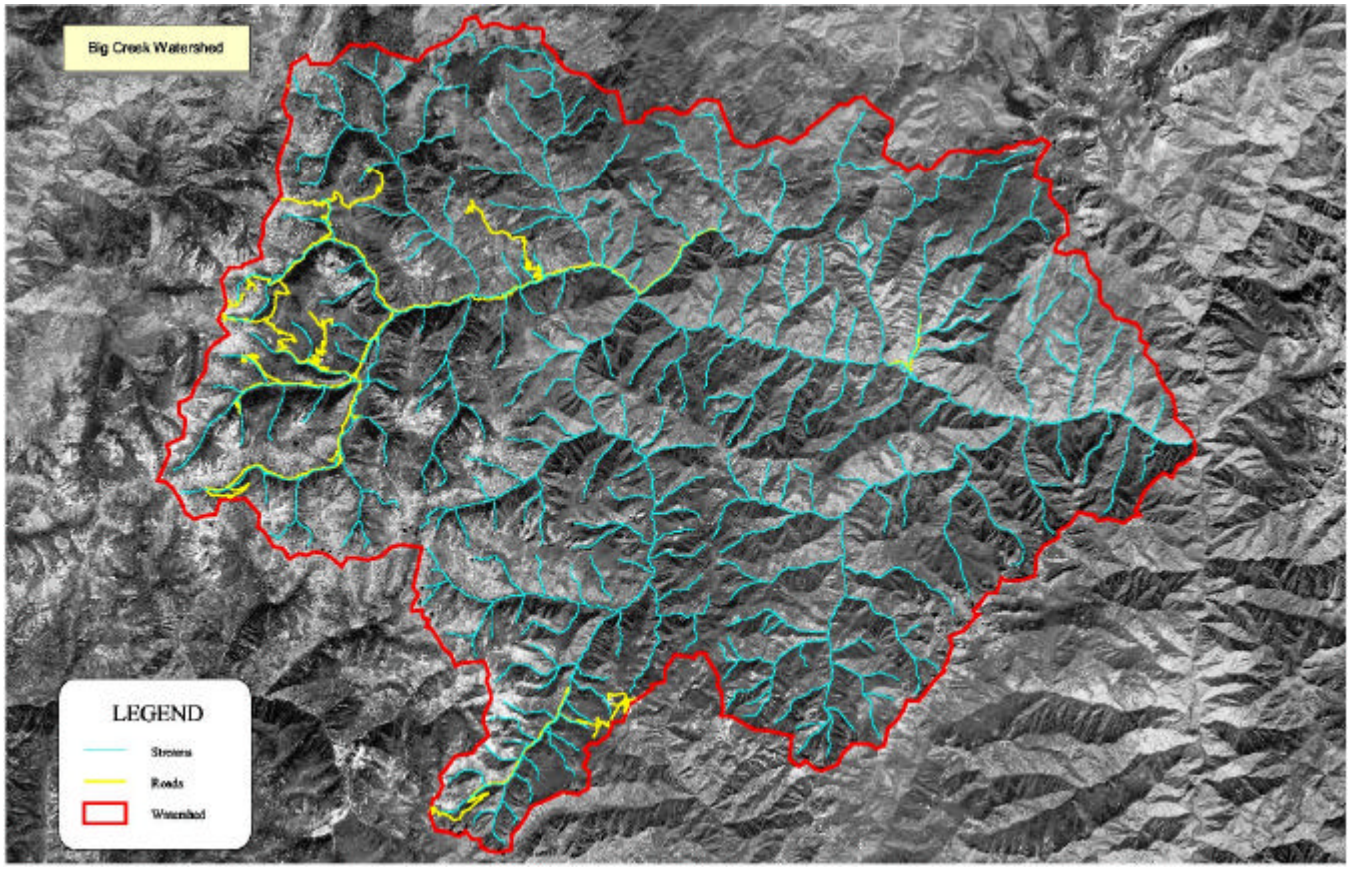
Stream Name	Total Watershed Acreage	Wilderness Acres	Wilderness % of watershed	Roadless Acres	Roadless % of watershed	Roadless + Wild % of watershed		Timber Harvest Acres	% of watershed harvested	Ag Use Acres		Road miles
Boulder Creek	29,999	27,441	91.5	2,518	8.4	99.9		0	0.0%	0		0
Fish Creek	56,303	0	0.0	54,183	96.2	96.2		0	0.0%	0		32
Holly Creek	58,674	217	0.4	54,840	93.5	93.8		99	0.2%	0		36
Storm Creek	32,602	27,938	85.7	4,428	13.6	99.3		0	0.0%	0		3
Lochsa River*	755,738	235,879	31.2	331,880	43.9	75.1		17985	2.4%	0		786
Bear Creek	115,097	115,034	99.9	0	0.0	99.9		0	0.0%	0		0
Moose Creek	232,959	232,819	99.9	77	0.0	100.0		0	0.0%	0		0
Running Creek	58,082	28,460	49.0	29,582	51.0	100.0		0	0.0%	0		11
Selway River**	1,285,598	976,749	76.0	251,000	19.5	95.5		8913	0.7%	0		362
Selway R II***	1,147,721	964,440	84.0	176,281	15.4	99.4		1085	0.1%	0		146
Big Creek	381,134	340,418	89.3	27,398	7.2	96.5		0	0.0%	0		104
Indian Creek	53,229	53,135	99.8	3	0.0	99.8		0	0.0%	0		5
MF Salmon River #	1,838,789	1,450,368	78.9	261,472	14.2	93.1		1630	0.1%	727		628
Smithie Fork	28,268	0	0.0	15,747	55.7	55.7		65	0.2%	99		37

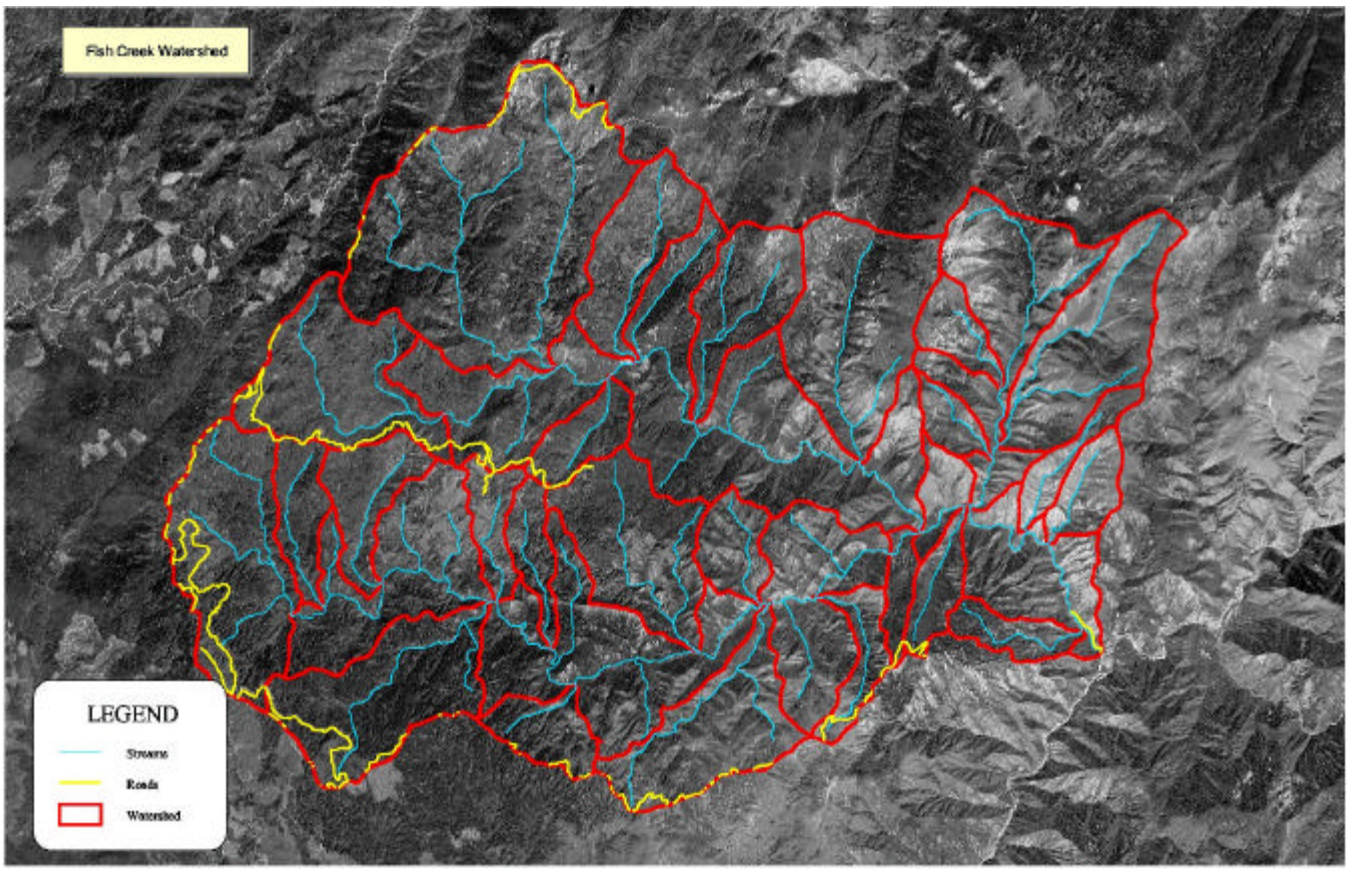
* all of 4th Field HUC 17060303
** all of 4th field HUCs 17060301 & 17060302
*** Everything draining to the confluence of Meadow Creek (all of 17060301 & most of 17060302)
# all of 4th field HUCs 17060205 & 17060206

NOTES:
Timber harvest acres is total by USFS since harvest began over 50 years ago.
In the Lochsa this does not include harvest on intemingled private land, which brings the precent acres harvested to about 8%
Forest Service reports no timber harvest in Riparian Habitat Conservation Areas (300ft stream buffer) in the MF Salmon and Selway drainages
Ag use is primarily hay meadows on private inholdings
Calculation of RHCA acres in roads uses a 30' roadbed width and assumes entire road is within buffer

Road density mi/sq mi	Miles of 1:100K stream	Stream crossings	Stream xings per stream mi	Riparian Roads Miles (300ft)	% of RHCA in roads	Riparian Roads Miles (150ft)	% of RHCA in roads		# of Hot Springs	# of Dams
0.0	50	0	0.00	0	0.0%	0.0	0.0%		1	0
0.4	131	2	0.02	1	0.1%	0.6	0.0%		0	0
0.4	86	13	0.15	15	0.9%	1.0	0.1%		0	0
0.1	47	0	0.00	0	0.0%	0.0	0.0%		0	0
0.7	1377	229	0.17	169	0.6%	48.3	0.4%		7	0
0.0	183	0	0.00	0	0.0%	0.0	0.0%		0	0
0.0	434	0	0.00	1	0.0%	0.2	0.0%		1	0
0.1	120	6	0.05	2	0.1%	0.7	0.1%		1	0
0.2	2542	118	0.05	69	0.1%	23.2	0.1%		4	0
0.1	2270	73	0.03	45	0.1%	16.0	0.1%		4	0
0.2	650	55	0.08	41	0.3%	15.2	0.2%		0	0
0.1	106	0	0.00	0	0.0%	0.0	0.0%		2	0
0.2	3554	340	0.10	213	0.3%	77.7	0.2%		18	0
0.8	18	6	0.33	5	1.3%	0.8	0.4%		0	0


LEGEND
Streams
Roads
Watershed
Bear Creek Drainage


Big Creek Watershed
LEGEND
Streams
Roads
Watershed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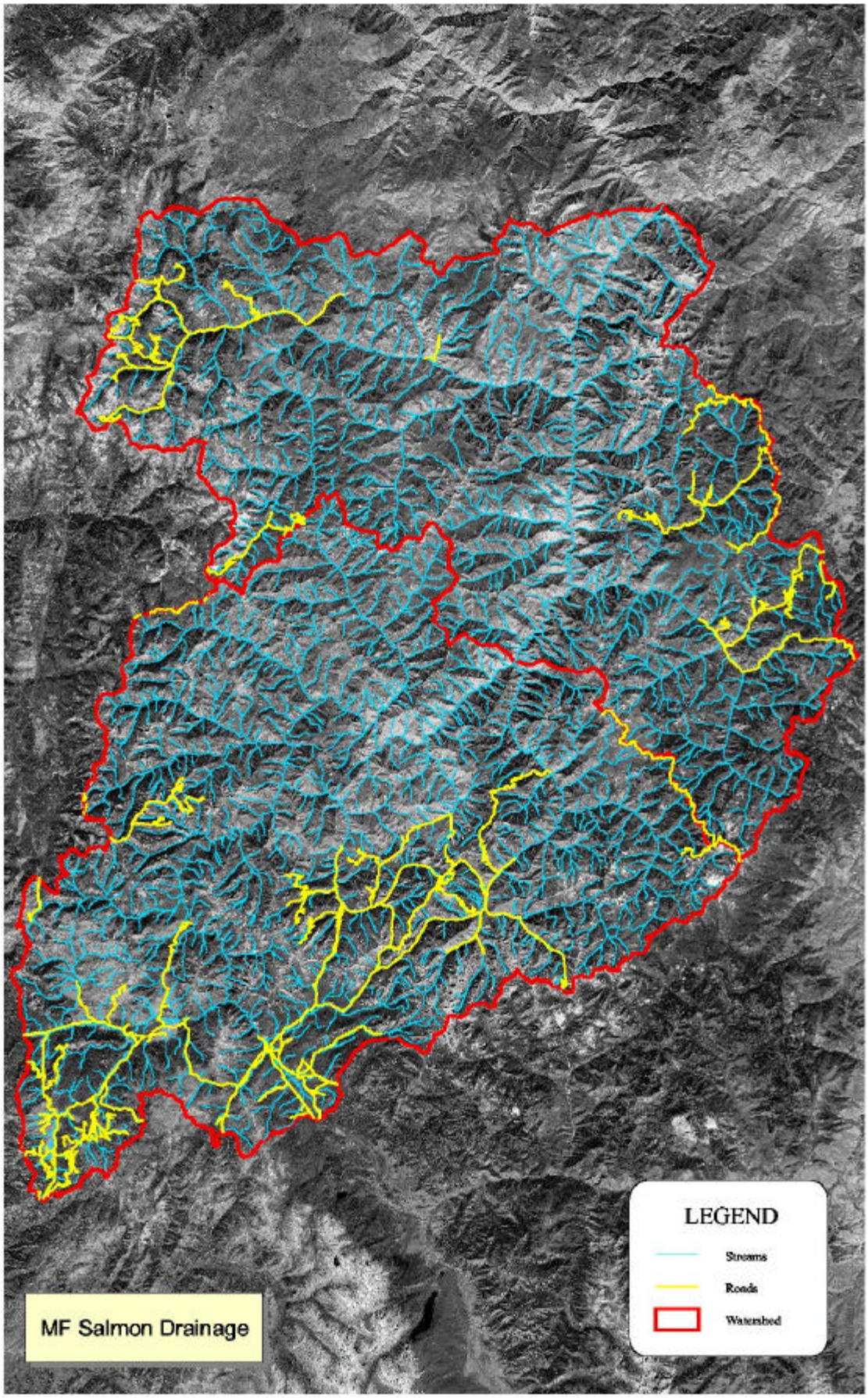
Streams
Roads
Watershed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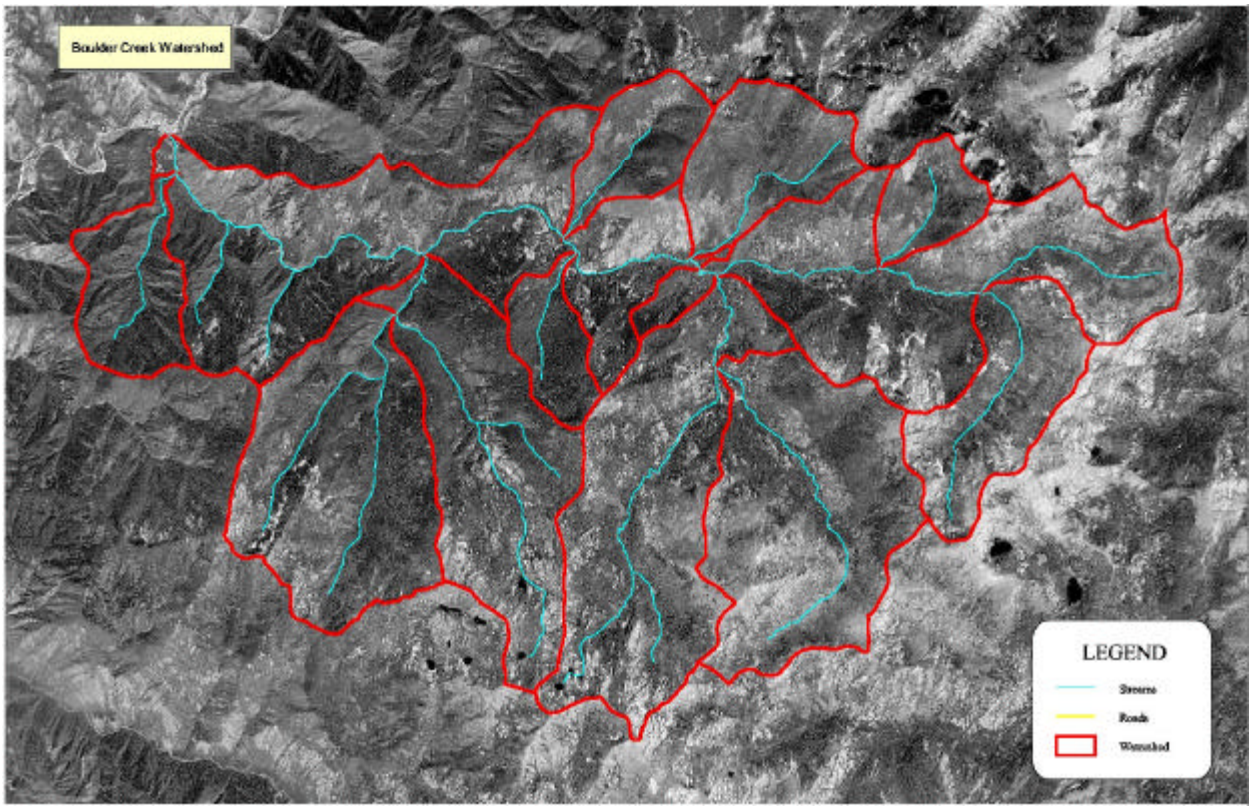
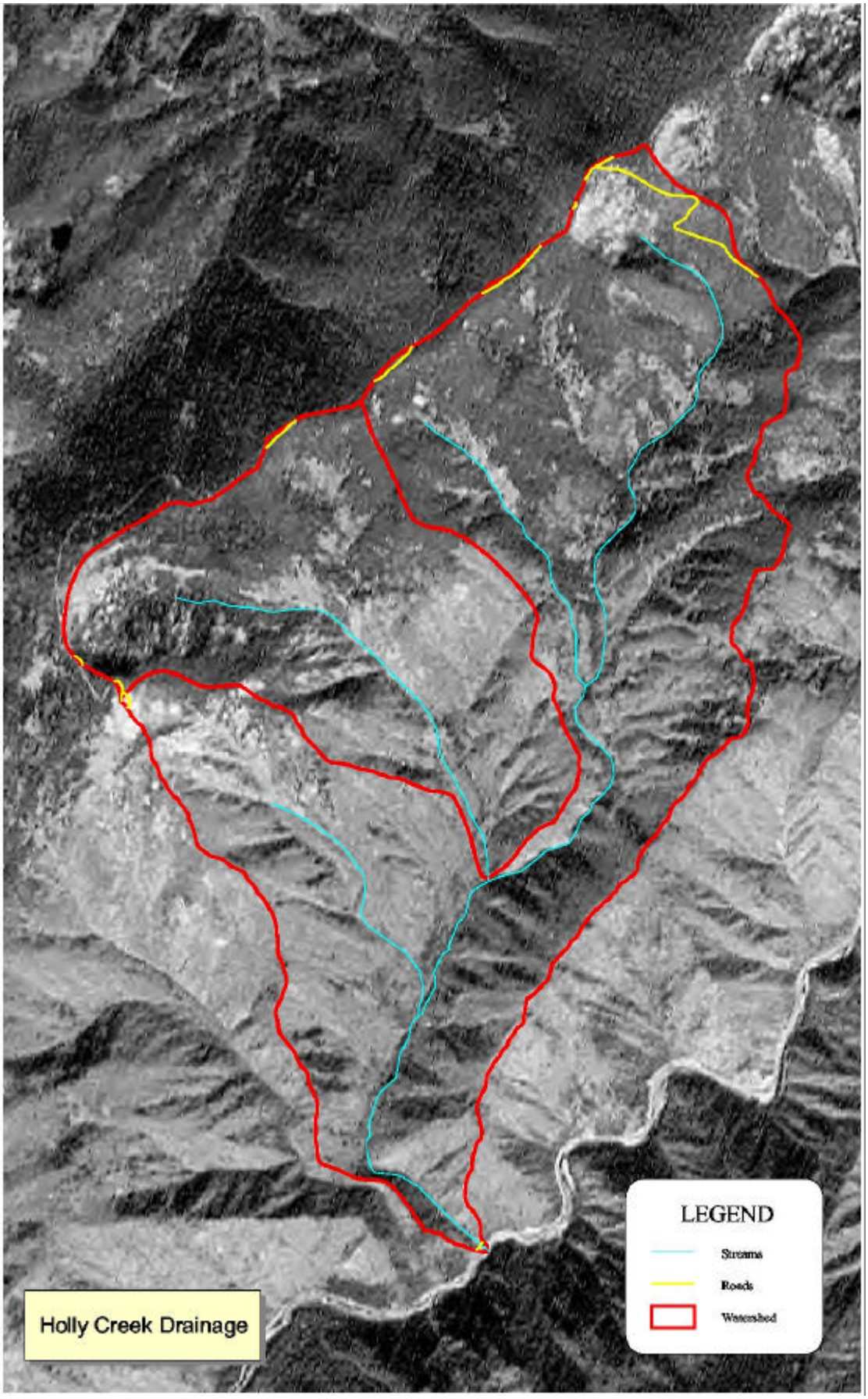
Streams
Roads
Watershed
MF Salmon Drainage


Boulder Creek Watershed
LEGEND
Streams
Roads
Watershed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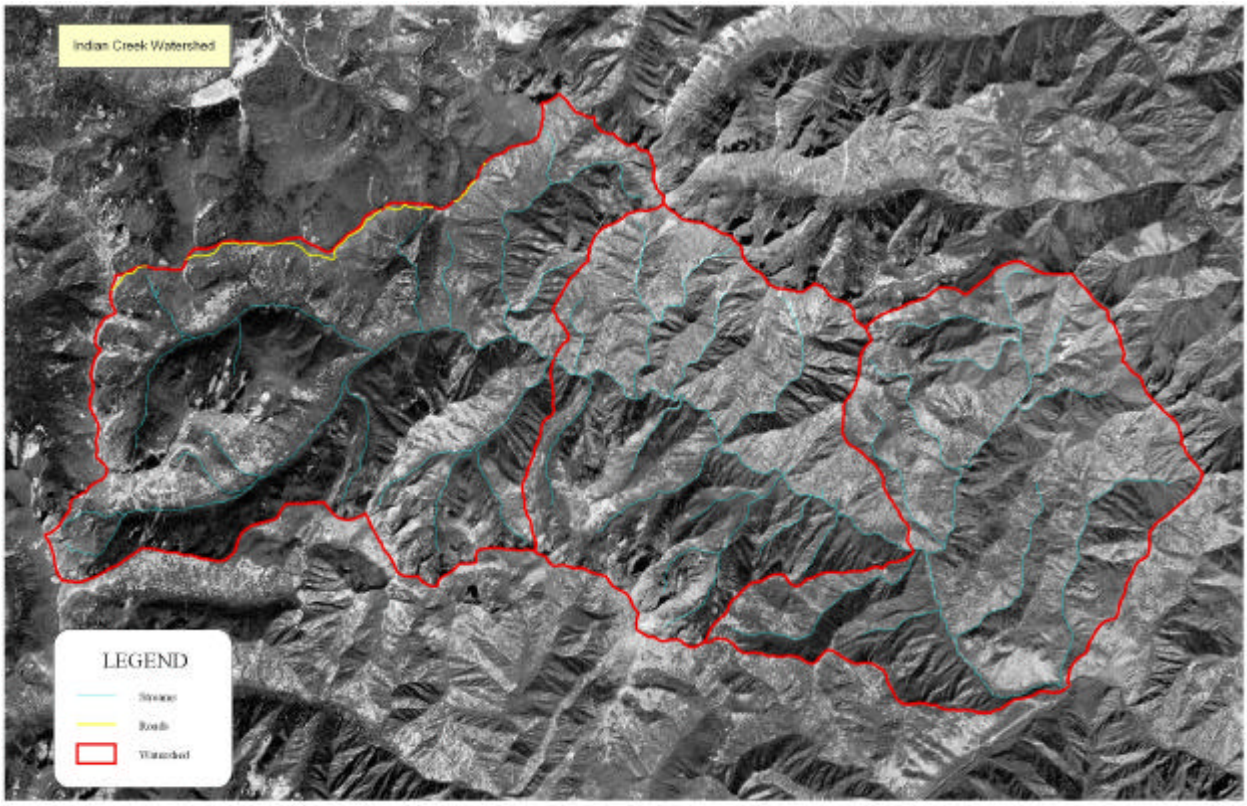
Streams
Roads
Watershed
Holly Creek Drainage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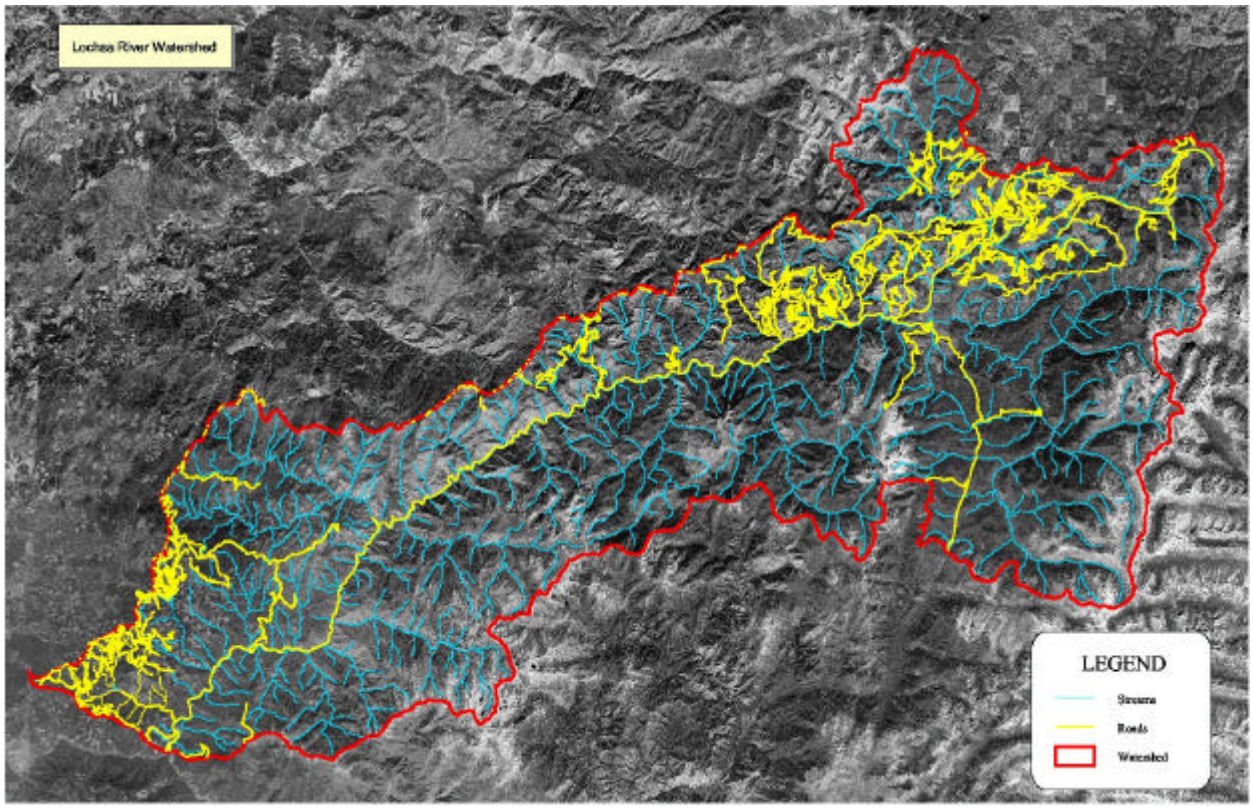
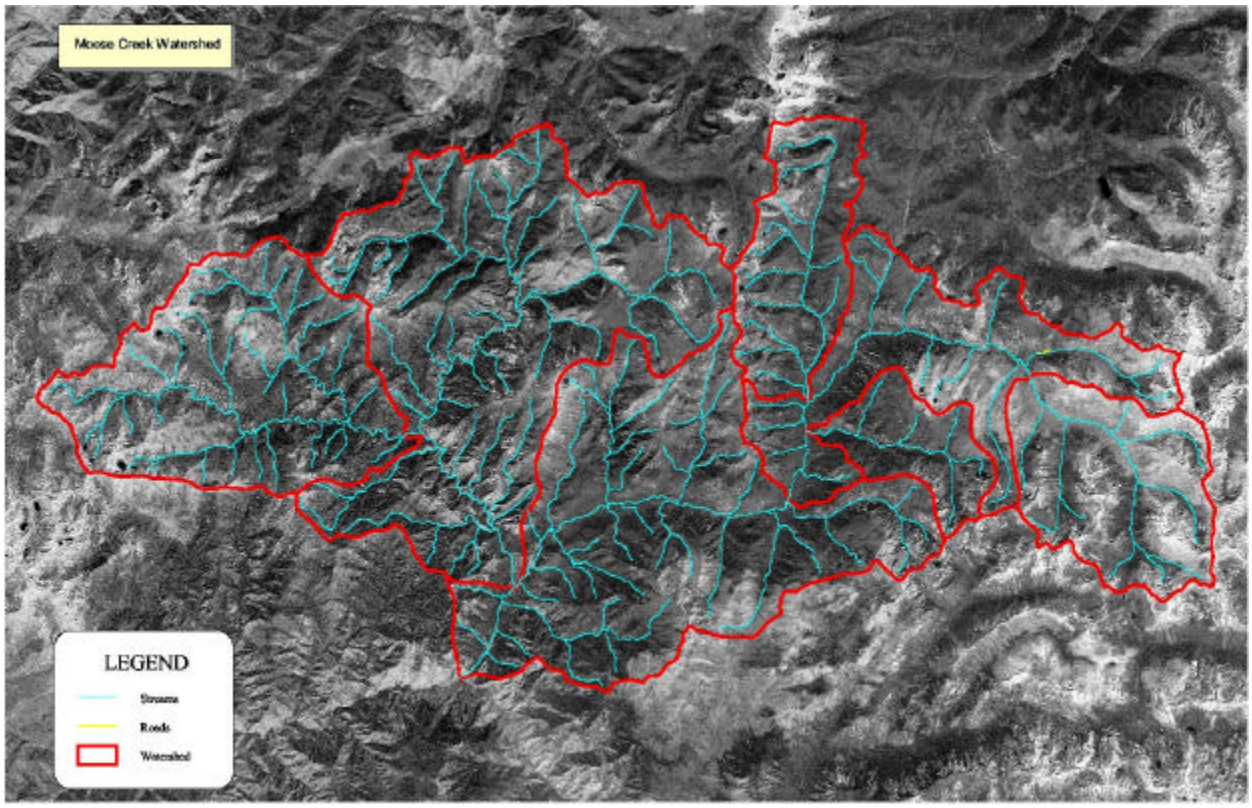
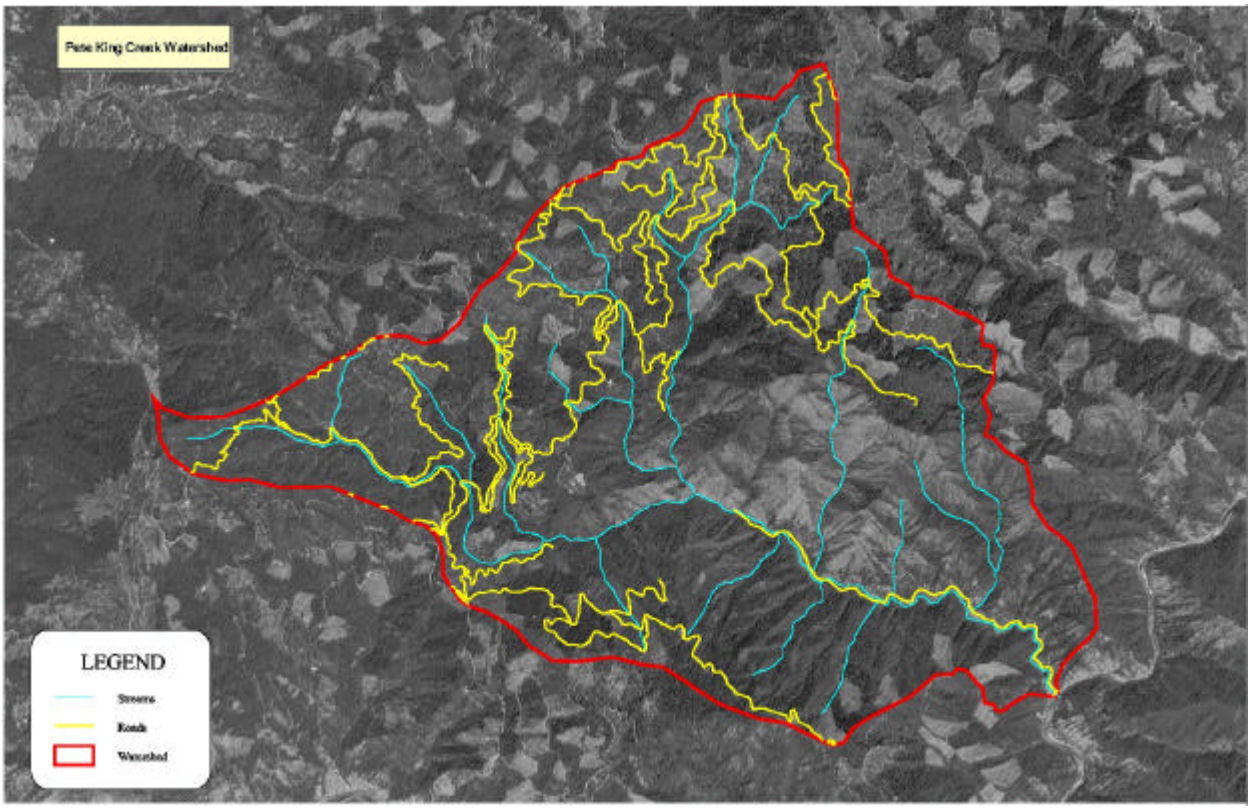
LEGEND
Streams
Roads
Watershed


Lochsa River Watershed
LEGEND
Streams
Roads
Watershed


Moose Creek Watershed
LEGEND
Streams
Roads
Watershed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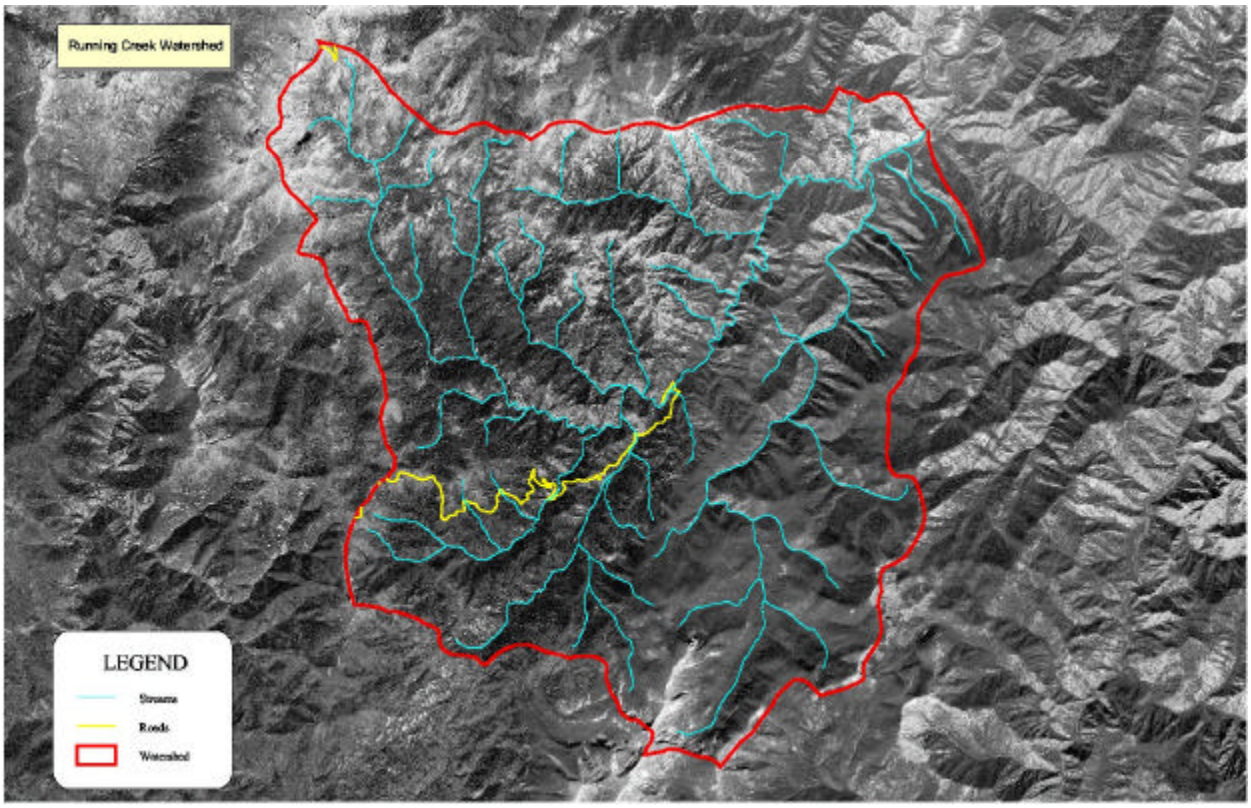
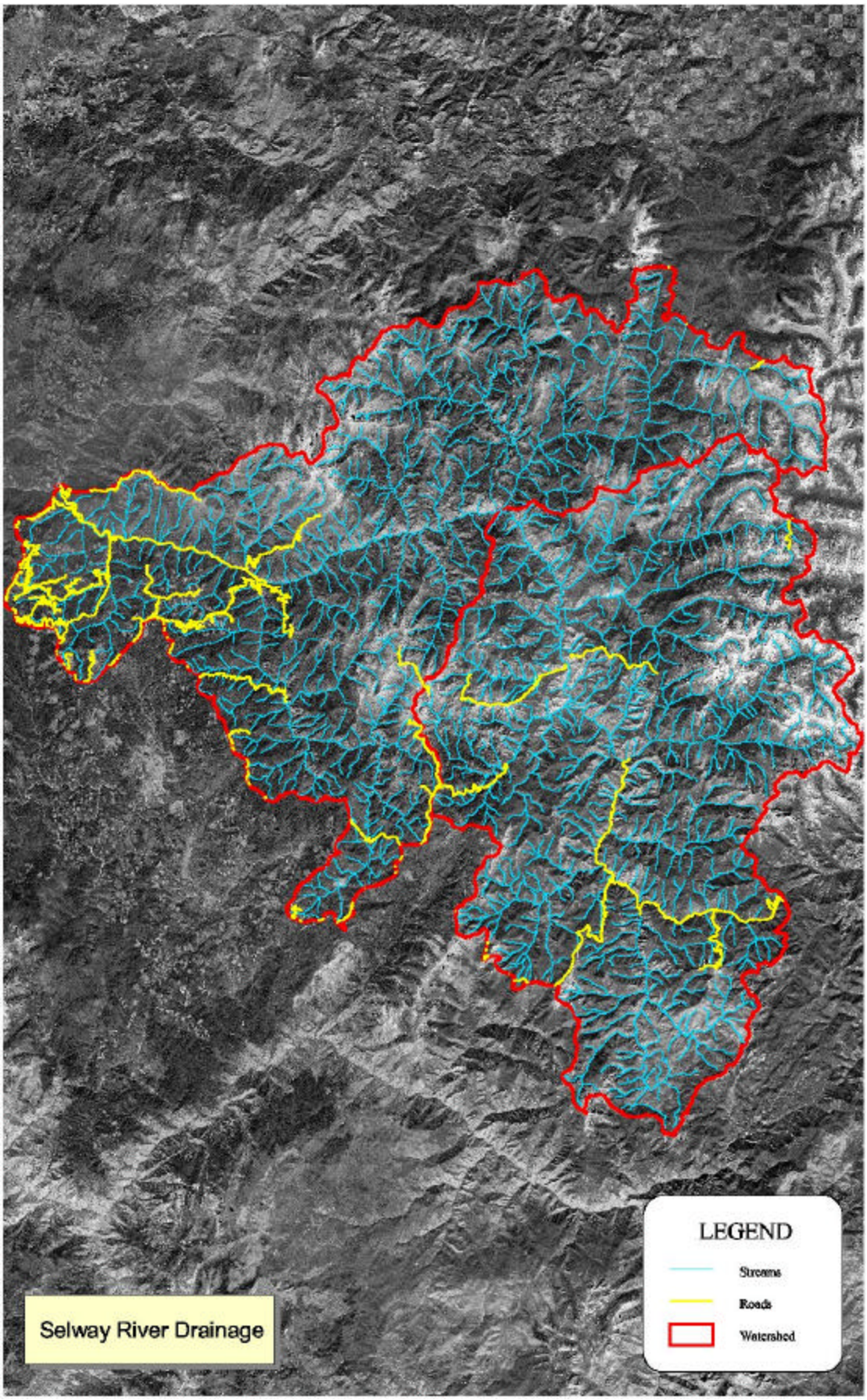
LEGEND
Streams
Roads
Watershed


Running Creek Watershed
LEGEND
Streams
Roads
Watershed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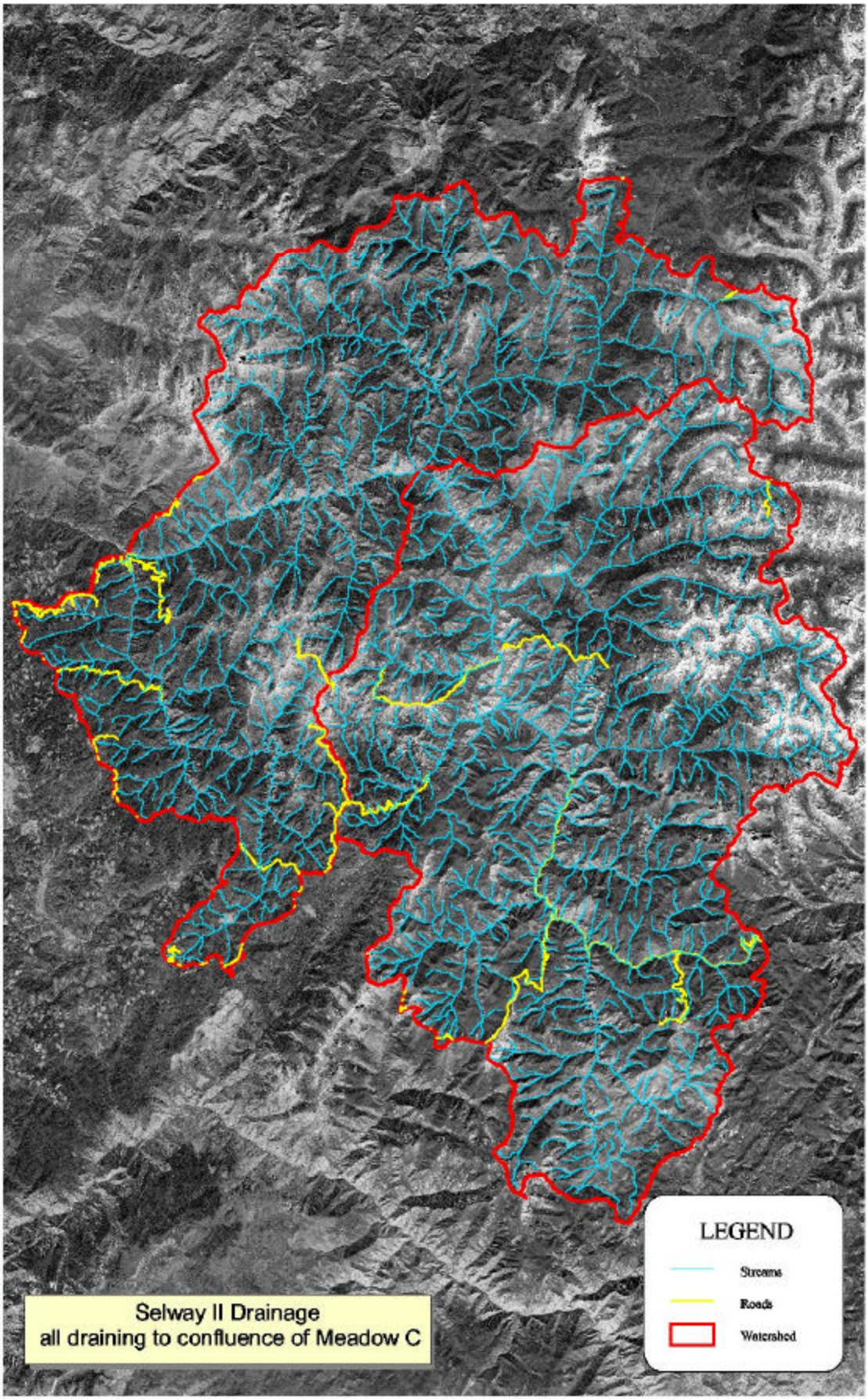
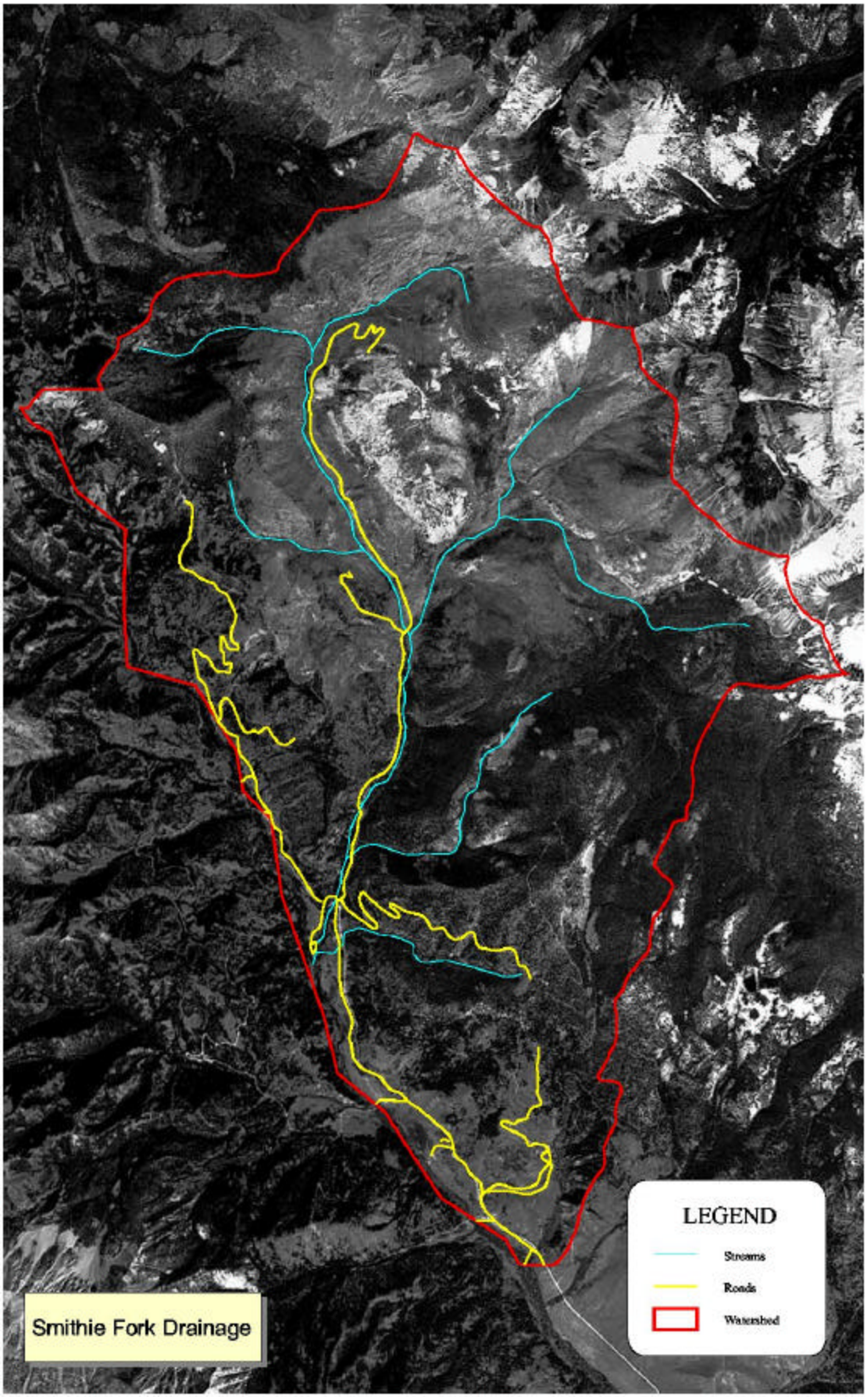
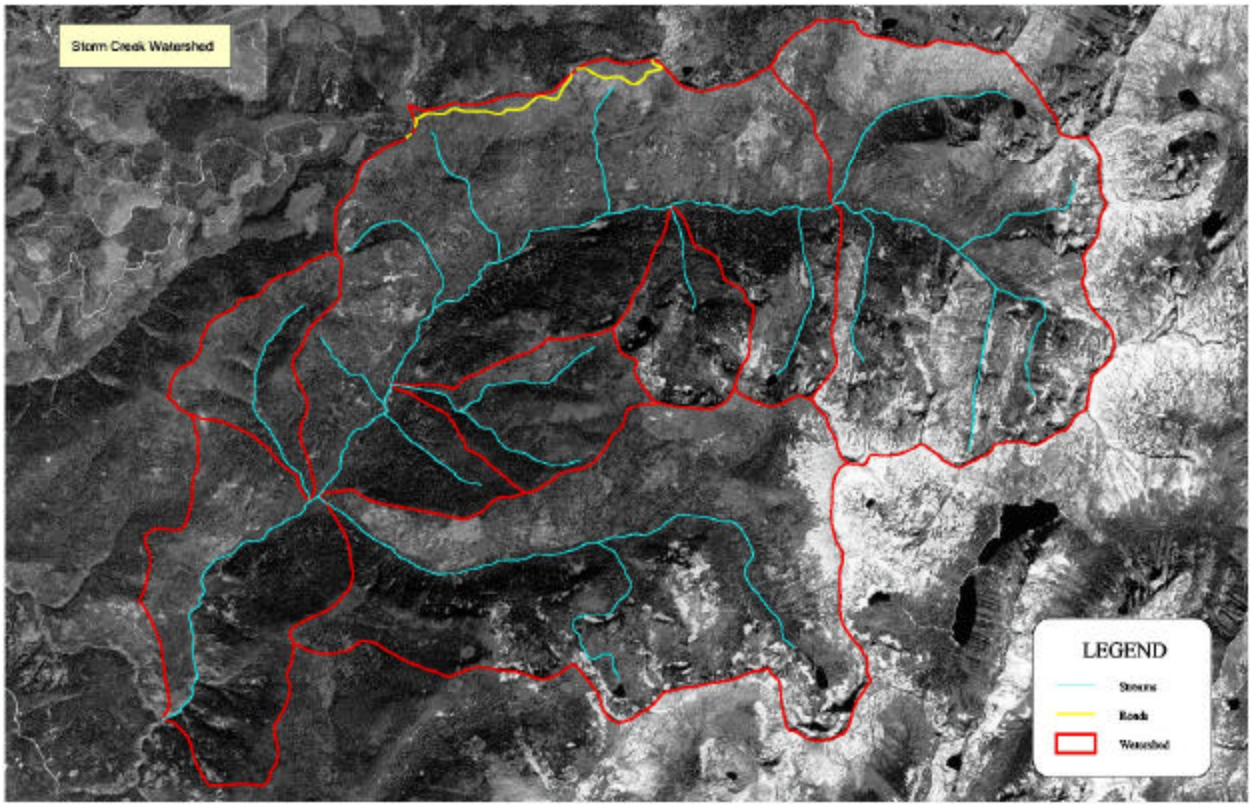
Streams
Roads
Watershed
Selway River Drainage


LEGEND
Streams
Roads
Watershed
Selway II Drainage
all draining to confluence of Meadow C


Smithie Fork Drainage
LEGEND
Streams
Roads
Watershed


Storm Creek Watershed
LEGEND
Streams
Roads
Watershed

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	1.12	0.48	0.92			20	
2	2-Jan-01	0.32	0.00	0.02			20	
3	3-Jan-01	0.16	0.00	0.01			20	
4	4-Jan-01	0.64	0.00	0.22			20	
5	5-Jan-01	0.80	0.32	0.58			20	
6	6-Jan-01	0.64	0.00	0.26			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.53
8	8-Jan-01	0.00	0.00	0.00			20	0.37
9	9-Jan-01	0.00	0.00	0.00			20	0.32
10	10-Jan-01	0.00	0.00	0.00			20	0.30
11	11-Jan-01	0.00	0.00	0.00			20	0.21
12	12-Jan-01	0.00	0.00	0.00			20	0.09
13	13-Jan-01	0.00	0.00	0.00			20	0.00
14	14-Jan-01	0.00	0.00	0.00			20	0.00
15	15-Jan-01	0.00	0.00	0.00			20	0.00
16	16-Jan-01	0.00	0.00	0.00			20	0.00
17	17-Jan-01	0.00	0.00	0.00			20	0.00
18	18-Jan-01	0.00	0.00	0.00			20	0.00
19	19-Jan-01	0.00	0.00	0.00			20	0.00
20	20-Jan-01	0.00	0.00	0.00			20	0.00
21	21-Jan-01	0.00	0.00	0.00			20	0.00
22	22-Jan-01	0.80	0.00	0.26			20	0.11
23	23-Jan-01	0.80	0.16	0.62			20	0.23
24	24-Jan-01	0.16	0.00	0.01			20	0.25
25	25-Jan-01	0.48	0.00	0.09			20	0.32
26	26-Jan-01	0.80	0.16	0.53			20	0.43
27	27-Jan-01	0.16	0.00	0.01			20	0.46
28	28-Jan-01	0.00	0.00	0.00			20	0.46
29	29-Jan-01	0.00	0.00	0.00			20	0.34
30	30-Jan-01	0.00	0.00	0.00			20	0.23
31	31-Jan-01	0.00	0.00	0.00			20	0.21
32	1-Feb-01	0.00	0.00	0.00			20	0.14
33	2-Feb-01	0.00	0.00	0.00			20	0.02
34	3-Feb-01	0.00	0.00	0.00			20	0.00
35	4-Feb-01	0.64	0.00	0.22			20	0.09
36	5-Feb-01	0.96	0.00	0.46			20	0.23
37	6-Feb-01	1.28	0.48	0.89			20	0.41
38	7-Feb-01	1.12	0.16	0.40			20	0.57
39	8-Feb-01	0.16	0.00	0.01			20	0.59
40	9-Feb-01	0.00	0.00	0.00			20	0.59
41	10-Feb-01	0.00	0.00	0.00			20	0.59
42	11-Feb-01	0.00	0.00	0.00			20	0.50
43	12-Feb-01	0.00	0.00	0.00			20	0.37
44	13-Feb-01	0.00	0.00	0.00			20	0.18
45	14-Feb-01	0.00	0.00	0.00			20	0.02
46	15-Feb-01	0.32	0.00	0.09			20	0.05
47	16-Feb-01	1.28	0.16	0.65			20	0.23

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	3	4%	
19 °C Average	8	10%	
Days Evaluated & Date Range	80	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	26	28%	
9 °C Average Spring	34	37%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	25	31%	
9 °C Average Fall	29	36%	
Fall Days Eval'd w/in Dates	81	15-Aug	15-Nov
13 °C Instantaneous Total *	51	29%	
9 °C Average Total *	63	36%	
Tot Days Eval'd w/in Both Dates *	173		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	68	76%	
Juvenile Days Eval'd w/in Dates	89	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	15	29%	
Spawning Days Eval'd w/in Dates	52	1-Sep	31-Oct

NOTES

Comments: Data from one deployment wrapped so that fall 2000 data follows summer 2001 data. Data gap from 8-29 thru 9-9. This stream is *a priori* natural, watershed is entirely in Wilderness. Monitored as state Outstanding Resource Water nominee. temperature exceeds Idaho's cold water aquatic life daily maximum criterion less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	1.76	0.96	1.37			20	0.48
49	18-Feb-01	2.08	1.12	1.62			20	0.78
50	19-Feb-01	2.08	1.28	1.70			20	1.07
51	20-Feb-01	2.08	0.48	1.16			20	1.37
52	21-Feb-01	2.08	1.28	1.74			20	1.67
53	22-Feb-01	2.55	1.28	1.90			20	1.99
54	23-Feb-01	2.24	1.44	1.98			20	2.12
55	24-Feb-01	2.24	1.12	1.78			20	2.19
56	25-Feb-01	1.92	0.16	1.07			20	2.17
57	26-Feb-01	2.40	0.48	1.25			20	2.22
58	27-Feb-01	2.24	0.00	0.71			20	2.24
59	28-Feb-01	0.96	0.00	0.11			20	2.08
60	1-Mar-01	0.00	0.00	0.00			20	1.71
61	2-Mar-01	1.60	0.00	0.73			20	1.62
62	3-Mar-01	2.24	0.16	1.07			20	1.62
63	4-Mar-01	2.40	0.32	1.30			20	1.69
64	5-Mar-01	2.87	1.28	2.08			20	1.76
65	6-Mar-01	3.34	0.64	1.95			20	1.92
66	7-Mar-01	3.19	0.48	1.91			20	2.23
67	8-Mar-01	3.34	0.32	1.79			20	2.71
68	9-Mar-01	2.71	1.28	1.93			20	2.87
69	10-Mar-01	3.34	1.44	2.25			20	3.03
70	11-Mar-01	2.55	1.60	2.14			20	3.05
71	12-Mar-01	3.50	1.76	2.47			20	3.14
72	13-Mar-01	4.12	2.08	3.03			20	3.25
73	14-Mar-01	3.34	1.92	2.59			20	3.27
74	15-Mar-01	3.97	1.28	2.45			20	3.36
75	16-Mar-01	3.81	1.76	2.71			20	3.52
76	17-Mar-01	3.97	1.60	2.71			20	3.61
77	18-Mar-01	5.07	2.40	3.55			20	3.97
78	19-Mar-01	3.97	2.87	3.41			20	4.04
79	20-Mar-01	5.69	2.08	3.43			20	4.26
80	21-Mar-01	5.54	1.28	3.06			20	4.57
81	22-Mar-01	5.38	0.96	2.90			20	4.78
82	23-Mar-01	5.85	1.44	3.25			20	5.07
83	24-Mar-01	5.54	2.40	3.71			20	5.29
84	25-Mar-01	3.34	2.24	2.85			20	5.04
85	26-Mar-01	3.97	2.40	3.10			20	5.04
86	27-Mar-01	5.07	2.55	3.55			20	4.96
87	28-Mar-01	4.91	3.34	4.04			20	4.87
88	29-Mar-01	5.69	3.50	4.47			20	4.91
89	30-Mar-01	5.54	3.66	4.40			20	4.87
90	31-Mar-01	4.12	2.55	3.45			20	4.66
91	1-Apr-01	6.16	3.34	4.48			19	5.07
92	2-Apr-01	4.60	3.50	3.95			20	5.16
93	3-Apr-01	5.69	2.40	3.64			20	5.24
94	4-Apr-01	5.69	3.03	4.06			20	5.36
95	5-Apr-01	6.16	1.92	3.70			20	5.42
96	6-Apr-01	4.91	2.71	3.78			20	5.33
97	7-Apr-01	5.54	3.66	4.38			20	5.54

STATISTICS	
Maximum Daily Maximum (MDM)	23.0 ºC
Maximum 7-Day Maximum (MWM)	22.1 ºC
Maximum Daily Average (MDA)	20.0 ºC
Maximum 7-Day Average (MWA)	19.2 ºC
Mean Daily Maximum	7.4 ºC
Mean Daily Average	6.2 ºC
Mean Daily Minimum	5.2 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	6.2 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	88	80%	
Nmbr of 7-Day Avg's w/in Dates	110	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	80	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	5.07	2.71	3.62			20	5.38
99	9-Apr-01	4.75	2.71	3.61			20	5.40
100	10-Apr-01	5.38	2.71	3.88			20	5.36
101	11-Apr-01	5.38	3.03	4.02			20	5.31
102	12-Apr-01	5.22	3.50	4.27			20	5.18
103	13-Apr-01	5.54	3.19	4.13			20	5.27
104	14-Apr-01	6.47	2.87	4.22			20	5.40
105	15-Apr-01	7.40	2.24	4.50			20	5.73
106	16-Apr-01	7.71	2.87	5.10			20	6.16
107	17-Apr-01	8.32	3.97	6.00			20	6.58
108	18-Apr-01	7.55	5.07	6.23			20	6.89
109	19-Apr-01	7.24	4.75	5.88			20	7.18
110	20-Apr-01	5.38	3.66	4.57			20	7.15
111	21-Apr-01	6.16	3.97	4.96			20	7.11
112	22-Apr-01	7.24	3.81	5.25			20	7.09
113	23-Apr-01	7.09	4.91	5.86			20	7.00
114	24-Apr-01	9.41	5.22	6.85			20	7.15
115	25-Apr-01	8.79	4.60	6.61			20	7.33
116	26-Apr-01	7.55	3.97	5.93			20	7.37
117	27-Apr-01	6.31	3.66	5.01			20	7.51
118	28-Apr-01	5.22	3.34	4.37			20	7.37
119	29-Apr-01	5.38	3.34	4.37			20	7.11
120	30-Apr-01	4.91	4.28	4.64			20	6.80
121	1-May-01	4.60	3.34	3.98			20	6.11
122	2-May-01	5.22	3.03	4.03			20	5.60
123	3-May-01	6.62	2.87	4.64			20	5.47
124	4-May-01	7.86	3.81	5.67			20	5.69
125	5-May-01	6.94	5.07	5.74			20	5.93
126	6-May-01	6.78	3.19	4.90			20	6.13
127	7-May-01	7.71	3.50	5.48			20	6.53
128	8-May-01	7.55	4.44	6.11			20	6.95
129	9-May-01	7.40	4.60	6.07			20	7.27
130	10-May-01	7.86	4.28	6.07			20	7.44
131	11-May-01	8.02	3.97	6.00			20	7.47
132	12-May-01	8.02	4.44	6.18			20	7.62
133	13-May-01	6.94	4.91	5.92			20	7.64
134	14-May-01	6.31	4.60	5.50			20	7.44
135	15-May-01	6.00	4.60	5.38			20	7.22
136	16-May-01	6.00	5.22	5.56			20	7.02
137	17-May-01	6.94	3.81	5.32			20	6.89
138	18-May-01	6.78	5.54	6.11			20	6.71
139	19-May-01	7.71	4.60	6.09			20	6.67
140	20-May-01	7.55	5.69	6.62			20	6.76
141	21-May-01	8.02	4.28	6.08			20	7.00
142	22-May-01	9.25	5.38	7.15			20	7.46
143	23-May-01	9.56	5.85	7.64			20	7.97
144	24-May-01	9.25	6.00	7.61			20	8.30
145	25-May-01	9.72	6.78	8.02			20	8.72
146	26-May-01	9.41	6.78	8.08			20	8.97
147	27-May-01	9.10	7.09	8.16			20	9.19
148	28-May-01	9.72	7.09	8.47			20	9.43

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	9.56	7.24	8.19			20	9.47
150	30-May-01	8.48	5.85	7.13			20	9.32
151	31-May-01	10.35	7.71	8.82			20	9.48
152	1-Jun-01	10.35	8.02	9.16			20	9.57
153	2-Jun-01	10.35	8.64	9.22			20	9.70
154	3-Jun-01	8.48	6.47	7.40			20	9.61
155	4-Jun-01	6.47	3.81	4.91			20	9.15
156	5-Jun-01	6.78	4.60	5.62			20	8.75
157	6-Jun-01	8.79	6.00	7.20			20	8.80
158	7-Jun-01	8.02	6.16	7.14			20	8.46
159	8-Jun-01	10.19	6.47	8.20			20	8.44
160	9-Jun-01	10.96	8.48	9.76			20	8.53
161	10-Jun-01	10.35	8.64	9.43			20	8.79
162	11-Jun-01	9.87	8.02	8.99			20	9.28
163	12-Jun-01	9.25	6.47	7.87			20	9.63
164	13-Jun-01	6.31	4.91	5.59			20	9.28
165	14-Jun-01	8.17	5.69	6.79			20	9.30
166	15-Jun-01	10.96	7.24	8.77			20	9.41
167	16-Jun-01	11.74	7.09	9.25			20	9.52
168	17-Jun-01	11.58	8.94	10.15			20	9.70
169	18-Jun-01	11.74	8.17	9.82			20	9.96
170	19-Jun-01	12.04	7.71	9.79			20	10.36
171	20-Jun-01	13.44	8.79	10.88			20	11.38
172	21-Jun-01	14.84	10.19	12.28			20	12.33
173	22-Jun-01	15.80	11.42	13.43	J		20	13.03
174	23-Jun-01	15.48	12.20	13.87	J		20	13.56
175	24-Jun-01	15.00	12.20	13.58	J		20	14.05
176	25-Jun-01	14.37	11.27	12.80	J		20	14.42
177	26-Jun-01	15.64	11.58	13.43	J		20	14.94
178	27-Jun-01	15.32	12.36	13.83	J		20	15.21
179	28-Jun-01	16.43	12.67	14.37	J		20	15.43
180	29-Jun-01	17.39	12.51	14.76	J		20	15.66
181	30-Jun-01	16.91	13.29	15.08	J		20	15.87
182	1-Jul-01	18.67	13.60	15.98	J		20	16.39
183	2-Jul-01	19.00	13.90	16.37	J		20	17.05
184	3-Jul-01	19.49	14.06	16.70	J		20	17.60
185	4-Jul-01	18.51	15.16	16.53	J		20	18.06
186	5-Jul-01	16.91	15.64	16.02	J		20	18.13
187	6-Jul-01	19.16	13.60	16.02	J		20	18.38
188	7-Jul-01	18.03	13.29	15.72	J		20	18.54
189	8-Jul-01	19.16	14.69	16.67	J		20	18.61
190	9-Jul-01	19.00	15.48	17.11	J		20	18.61
191	10-Jul-01	21.45	15.32	18.13	J		20	18.89
192	11-Jul-01	19.32	15.32	17.47	J		20	19.00
193	12-Jul-01	19.49	15.48	17.32	J		20	19.37
194	13-Jul-01	17.87	14.52	16.24	J		20	19.19
195	14-Jul-01	20.62	13.44	16.72	J		20	19.56
196	15-Jul-01	18.35	15.48	16.79	J		20	19.44
197	16-Jul-01	15.96	13.90	14.77	J		20	19.01

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	16.11	12.20	14.01	J		20	18.25
199	18-Jul-01	16.91	12.51	14.50	J		20	17.90
200	19-Jul-01	19.97	13.14	16.09	J		20	17.97
201	20-Jul-01	19.49	14.21	16.65	J		20	18.20
202	21-Jul-01	20.30	14.84	17.18	J		20	18.16
203	22-Jul-01	21.12	14.69	17.67	J		20	18.55
204	23-Jul-01	20.79	13.90	17.41	J		20	19.24
205	24-Jul-01	21.12	14.06	17.60	J		20	19.96
206	25-Jul-01	21.62	14.69	18.07	J		20	20.63
207	26-Jul-01	21.45	14.52	18.00	J		20	20.84
208	27-Jul-01	21.62	14.37	18.08	J		20	21.15
209	28-Jul-01	19.97	15.32	17.83	J		20	21.10
210	29-Jul-01	17.71	13.60	15.86	J		20	20.61
211	30-Jul-01	15.48	13.29	14.24	J		20	19.85
212	31-Jul-01	14.52	12.51	13.43	J		20	18.91
213	1-Aug-01	17.55	10.81	13.76	J		20	18.33
214	2-Aug-01	20.30	12.82	16.12	J		20	18.16
215	3-Aug-01	19.81	14.21	17.08	J		20	17.91
216	4-Aug-01	19.16	14.84	17.06	J		20	17.79
217	5-Aug-01	21.29	14.06	17.40	J		20	18.30
218	6-Aug-01	22.29	15.00	18.59	J		20	19.27
219	7-Aug-01	22.96	16.11	19.61	J		20	20.48
220	8-Aug-01	22.79	16.91	20.01	J		20	21.23
221	9-Aug-01	21.79	16.11	19.14	J		20	21.44
222	10-Aug-01	21.79	15.48	18.80	J		20	21.72
223	11-Aug-01	21.12	15.16	18.40	J		20	22.00
224	12-Aug-01	21.95	15.32	18.71	J		20	22.10
225	13-Aug-01	21.45	17.55	19.94	J		20	21.98
226	14-Aug-01	21.95	16.75	19.49	J		20	21.83
227	15-Aug-01	21.79	16.43	19.37	J		20	21.69
228	16-Aug-01	21.62	16.27	19.17	J		20	21.67
229	17-Aug-01	20.79	15.80	18.69	J		20	21.52
230	18-Aug-01	21.12	16.59	19.22	J		20	21.52
231	19-Aug-01	19.97	15.48	18.17	J		20	21.24
232	20-Aug-01	19.49	14.21	17.18	J		20	20.96
233	21-Aug-01	19.32	14.37	17.20	J		20	20.59
234	22-Aug-01	18.35	14.69	17.03	J		20	20.09
235	23-Aug-01	18.51	14.69	16.87	J		20	19.65
236	24-Aug-01	19.65	16.27	17.93	J		20	19.49
237	25-Aug-01	19.16	14.37	17.02	J		20	19.21
238	26-Aug-01	19.65	14.37	17.22	J		20	19.16
239	27-Aug-01	19.97	15.48	17.85	J		20	19.23
240	28-Aug-01	19.49	15.80	17.75	J		20	19.25
241	10-Sep-01	13.14	10.04	10.93		S	20	18.51
242	11-Sep-01	12.98	10.19	11.34		S	20	17.72
243	12-Sep-01	14.37	9.87	11.88		S	20	16.97
244	13-Sep-01	15.80	10.96	13.17		S	20	16.49
245	14-Sep-01	15.96	11.58	13.92		S	20	15.96
246	15-Sep-01	16.43	12.20	14.48		S	20	15.45

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
247	16-Sep-01	17.07	13.60	15.65		S	20	15.11
248	17-Sep-01	17.07	14.06	15.75		S	20	15.67
249	18-Sep-01	16.59	13.44	14.74		S	20	16.18
250	19-Sep-01	15.48	13.90	14.69		S	20	16.34
251	20-Sep-01	14.84	11.58	13.09		S	20	16.21
252	21-Sep-01	13.29	11.27	12.08		S	20	15.82
253	22-Sep-01	10.96	8.02	9.02		S	20	15.04
254	23-Sep-01	8.94	5.07	6.95			20	13.88
255	24-Sep-01	8.32	4.44	6.50			20	12.63
256	25-Sep-01	8.79	4.91	6.95			20	11.52
257	26-Sep-01	8.94	5.38	7.34			20	10.58
258	27-Sep-01	9.10	5.54	7.52			20	9.76
259	28-Sep-01	9.10	6.16	7.85			20	9.16
260	29-Sep-01	9.10	7.09	8.24			20	8.90
261	30-Sep-01	9.41	8.48	8.85			20	8.97
262	1-Oct-01	9.87	9.10	9.42		S	20	9.19
263	2-Oct-01	9.72	8.48	9.05		S	20	9.32
264	3-Oct-01	8.79	7.09	7.85			20	9.30
265	4-Oct-01	8.48	5.38	6.65			20	9.21
266	5-Oct-01	7.55	4.75	5.99			20	8.99
267	6-Oct-01	6.62	3.50	4.86			20	8.63
268	7-Oct-01	6.62	3.19	4.64			20	8.24
269	8-Oct-01	7.09	3.50	5.01			20	7.84
270	9-Oct-01	7.55	3.97	5.48			20	7.53
271	10-Oct-01	7.55	5.54	6.50			20	7.35
272	11-Oct-01	8.79	6.78	7.52			20	7.40
273	12-Oct-01	8.02	7.40	7.61			20	7.46
274	13-Oct-01	7.55	6.78	7.15			20	7.60
275	14-Oct-01	7.24	6.16	6.66			20	7.68
276	15-Oct-01	8.17	6.31	6.89			20	7.84
277	16-Oct-01	7.40	5.38	6.32			20	7.82
278	17-Oct-01	7.40	5.07	6.07			20	7.80
279	18-Oct-01	7.24	5.07	5.99			20	7.57
280	19-Oct-01	8.17	6.62	7.14			20	7.60
281	20-Oct-01	6.78	5.85	6.42			20	7.49
282	21-Oct-01	7.09	5.85	6.66			20	7.46
283	22-Oct-01	5.69	4.28	5.04			20	7.11
284	23-Oct-01	3.97	2.40	3.26			20	6.62
285	24-Oct-01	4.44	2.40	3.15			20	6.20
286	25-Oct-01	4.28	2.55	3.29			20	5.77
287	26-Oct-01	4.60	2.71	3.54			20	5.26
288	27-Oct-01	6.16	4.12	5.05			20	5.18
289	28-Oct-01	5.38	3.81	4.64			20	4.93
290	29-Oct-01	6.16	4.91	5.48			21	5.00
291	30-Oct-01	6.16	5.38	5.67			20	5.31
292	31-Oct-01	5.69	4.60	5.20			20	5.49
293	1-Nov-01	5.07	3.81	4.49			20	5.60
294	2-Nov-01	3.66	2.24	3.12			20	5.47
295	3-Nov-01	2.87	1.28	1.94			20	5.00
296	4-Nov-01	2.55	1.12	1.81			20	4.59

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
297	5-Nov-01	2.24	1.92	2.17			20	4.03
298	6-Nov-01	3.03	2.08	2.45			20	3.59
299	7-Nov-01	2.40	1.28	1.95			20	3.12
300	8-Nov-01	1.12	0.16	0.59			20	2.55
301	9-Nov-01	1.60	0.48	0.96			20	2.26
302	10-Nov-01	0.16	0.00	0.01			20	1.87
303	11-Nov-01	0.00	0.00	0.00			20	1.51
304	12-Nov-01	0.00	0.00	0.00			20	1.19
305	13-Nov-01	0.00	0.00	0.00			20	0.75
306	14-Nov-01	0.00	0.00	0.00			20	0.41
307	15-Nov-01	0.00	0.00	0.00			20	0.25
308	16-Nov-01	0.00	0.00	0.00			20	0.02
309	17-Nov-01	0.00	0.00	0.00			20	0.00
310	18-Nov-01	0.00	0.00	0.00			20	0.00
311	19-Nov-01	0.00	0.00	0.00			20	0.00
312	20-Nov-01	0.00	0.00	0.00			20	0.00
313	21-Nov-01	0.00	0.00	0.00			20	0.00
314	22-Nov-01	0.00	0.00	0.00			20	0.00
315	23-Nov-01	0.00	0.00	0.00			20	0.00
316	24-Nov-01	0.00	0.00	0.00			20	0.00
317	25-Nov-01	0.00	0.00	0.00			20	0.00
318	26-Nov-01	0.00	0.00	0.00			20	0.00
319	27-Nov-01	0.00	0.00	0.00			20	0.00
320	28-Nov-01	0.00	0.00	0.00			20	0.00
321	29-Nov-01	0.00	0.00	0.00			20	0.00
322	30-Nov-01	0.00	0.00	0.00			20	0.00
323	1-Dec-01	0.00	0.00	0.00			20	0.00
324	2-Dec-01	0.00	0.00	0.00			20	0.00
325	3-Dec-01	0.00	0.00	0.00			20	0.00
326	4-Dec-01	0.48	0.00	0.06			20	0.07
327	5-Dec-01	1.44	0.48	0.95			20	0.27
328	6-Dec-01	1.28	0.00	0.78			20	0.46
329	7-Dec-01	0.00	0.00	0.00			20	0.46
330	8-Dec-01	0.00	0.00	0.00			20	0.46
331	9-Dec-01	0.00	0.00	0.00			20	0.46
332	10-Dec-01	0.00	0.00	0.00			20	0.46
333	11-Dec-01	0.00	0.00	0.00			20	0.39
334	12-Dec-01	0.00	0.00	0.00			20	0.18
335	13-Dec-01	0.00	0.00	0.00			20	0.00
336	14-Dec-01	0.00	0.00	0.00			20	0.00
337	15-Dec-01	0.00	0.00	0.00			20	0.00
338	16-Dec-01	0.00	0.00	0.00			20	0.00
339	17-Dec-01	0.00	0.00	0.00			20	0.00
340	18-Dec-01	0.00	0.00	0.00			20	0.00
341	19-Dec-01	0.00	0.00	0.00			20	0.00
342	20-Dec-01	0.00	0.00	0.00			20	0.00
343	21-Dec-01	0.00	0.00	0.00			20	0.00
344	22-Dec-01	0.00	0.00	0.00			20	0.00
345	23-Dec-01	0.00	0.00	0.00			20	0.00
346	24-Dec-01	0.00	0.00	0.00			20	0.00
347	25-Dec-01	0.00	0.00	0.00			20	0.00

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Bear Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 767 M
Waterbody ID Number: 47

Import File : ... wAway\Selway 2001\Bear Creek 2001-00ed.txt
Calibration Factor : 0.07

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
348	26-Dec-01	0.00	0.00	0.00			20	0.00
349	27-Dec-01	0.00	0.00	0.00			20	0.00
350	28-Dec-01	0.16	0.00	0.05			20	0.02
351	29-Dec-01	0.16	0.00	0.01			20	0.05
352	30-Dec-01	0.80	0.00	0.24			20	0.16
353	31-Dec-01	1.12	0.64	0.91			20	0.32

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.00	0.00	0.00			20	
2	2-Jan-01	0.00	0.00	0.00			20	
3	3-Jan-01	0.00	0.00	0.00			20	
4	4-Jan-01	0.00	0.00	0.00			20	
5	5-Jan-01	0.00	0.00	0.00			20	
6	6-Jan-01	0.00	0.00	0.00			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.00
8	8-Jan-01	0.00	0.00	0.00			20	0.00
9	9-Jan-01	0.00	0.00	0.00			20	0.00
10	10-Jan-01	0.00	0.00	0.00			20	0.00
11	11-Jan-01	0.00	0.00	0.00			20	0.00
12	12-Jan-01	0.00	0.00	0.00			20	0.00
13	13-Jan-01	0.00	0.00	0.00			20	0.00
14	14-Jan-01	0.00	0.00	0.00			20	0.00
15	15-Jan-01	0.00	0.00	0.00			20	0.00
16	16-Jan-01	0.00	0.00	0.00			20	0.00
17	17-Jan-01	0.00	0.00	0.00			20	0.00
18	18-Jan-01	0.00	0.00	0.00			20	0.00
19	19-Jan-01	0.00	0.00	0.00			20	0.00
20	20-Jan-01	0.00	0.00	0.00			20	0.00
21	21-Jan-01	0.00	0.00	0.00			20	0.00
22	22-Jan-01	0.16	0.00	0.03			20	0.02
23	23-Jan-01	0.16	0.00	0.04			20	0.05
24	24-Jan-01	0.16	0.00	0.06			20	0.07
25	25-Jan-01	0.16	0.00	0.05			20	0.09
26	26-Jan-01	0.00	0.00	0.00			20	0.09
27	27-Jan-01	0.00	0.00	0.00			20	0.09
28	28-Jan-01	0.16	0.00	0.01			20	0.11
29	29-Jan-01	0.16	0.16	0.16			20	0.11
30	30-Jan-01	0.32	0.16	0.31			20	0.14
31	31-Jan-01	0.32	0.16	0.26			20	0.16
32	1-Feb-01	0.16	0.00	0.10			20	0.16
33	2-Feb-01	0.48	0.16	0.23			20	0.23
34	3-Feb-01	0.32	0.00	0.20			20	0.27
35	4-Feb-01	0.48	0.00	0.22			20	0.32
36	5-Feb-01	0.48	0.16	0.30			20	0.37
37	6-Feb-01	0.64	0.00	0.32			20	0.41
38	7-Feb-01	0.32	0.00	0.14			20	0.41
39	8-Feb-01	0.00	0.00	0.00			20	0.39
40	9-Feb-01	0.00	0.00	0.00			20	0.32
41	10-Feb-01	0.00	0.00	0.00			20	0.27
42	11-Feb-01	0.00	0.00	0.00			20	0.21
43	12-Feb-01	0.00	0.00	0.00			20	0.14
44	13-Feb-01	0.32	0.00	0.05			20	0.09
45	14-Feb-01	0.00	0.00	0.00			20	0.05
46	15-Feb-01	0.32	0.00	0.12			20	0.09
47	16-Feb-01	0.48	0.16	0.28			20	0.16

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	0	0%	
19 °C Average	1	1%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	35	38%	
9 °C Average Spring	53	58%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	36	39%	
9 °C Average Fall	41	44%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	71	38%	
9 °C Average Total *	94	51%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	0	0%	
Juvenile Days Eval'd w/in Dates	0	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	0	0%	
Spawning Days Eval'd w/in Dates	0	1-Sep	31-Oct

NOTES

Comments: Data from one deployment wrapped so that fall 2000 data follows summer 2001. Stream is *a priori* natural. Monitored as state Outstanding Resource Water nominee. Temperature exceeds Idaho's cold water aquatic life criteria less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	0.64	0.00	0.32			20	0.25
49	18-Feb-01	0.81	0.00	0.38			20	0.37
50	19-Feb-01	0.64	0.00	0.31			20	0.46
51	20-Feb-01	0.48	0.16	0.35			20	0.48
52	21-Feb-01	1.12	0.32	0.61			20	0.64
53	22-Feb-01	0.96	0.32	0.58			20	0.73
54	23-Feb-01	0.96	0.16	0.48			20	0.80
55	24-Feb-01	0.96	0.16	0.49			20	0.85
56	25-Feb-01	0.32	0.00	0.10			20	0.78
57	26-Feb-01	0.32	0.00	0.10			20	0.73
58	27-Feb-01	0.16	0.00	0.02			20	0.69
59	28-Feb-01	0.00	0.00	0.00			20	0.53
60	1-Mar-01	0.00	0.00	0.00			20	0.39
61	2-Mar-01	0.00	0.00	0.00			20	0.25
62	3-Mar-01	0.81	0.00	0.31			20	0.23
63	4-Mar-01	0.96	0.00	0.45			20	0.32
64	5-Mar-01	1.44	0.48	0.79			20	0.48
65	6-Mar-01	1.76	0.16	0.76			20	0.71
66	7-Mar-01	1.91	0.16	0.77			20	0.98
67	8-Mar-01	1.91	0.16	0.82			20	1.26
68	9-Mar-01	1.44	0.81	1.01			20	1.46
69	10-Mar-01	1.91	0.64	1.11			20	1.62
70	11-Mar-01	1.44	0.64	0.99			20	1.69
71	12-Mar-01	2.38	0.81	1.31			20	1.82
72	13-Mar-01	2.54	0.32	1.19			20	1.93
73	14-Mar-01	1.76	0.48	1.16			20	1.91
74	15-Mar-01	1.91	0.00	0.85			20	1.91
75	16-Mar-01	1.91	0.48	1.15			20	1.98
76	17-Mar-01	2.86	0.32	1.27			20	2.11
77	18-Mar-01	3.02	0.96	1.72			20	2.34
78	19-Mar-01	2.23	1.12	1.60			20	2.32
79	20-Mar-01	5.52	1.91	3.32			20	2.74
80	21-Mar-01	5.98	2.86	4.15			20	3.35
81	22-Mar-01	6.14	2.70	4.16			20	3.95
82	23-Mar-01	6.45	3.02	4.56			20	4.60
83	24-Mar-01	6.76	4.11	5.39			20	5.16
84	25-Mar-01	6.14	4.42	5.03			20	5.60
85	26-Mar-01	4.89	3.80	4.46			20	5.98
86	27-Mar-01	5.83	3.02	4.23			20	6.03
87	28-Mar-01	7.07	4.27	5.38			20	6.18
88	29-Mar-01	7.99	5.21	6.39			20	6.45
89	30-Mar-01	7.99	5.52	6.63			20	6.67
90	31-Mar-01	7.22	4.42	5.42			20	6.73
91	1-Apr-01	7.69	4.58	5.73			19	6.95
92	2-Apr-01	7.38	4.27	5.42			20	7.31
93	3-Apr-01	5.52	2.38	3.82			20	7.27
94	4-Apr-01	6.29	3.64	4.62			20	7.15
95	5-Apr-01	7.07	3.17	4.85			20	7.02
96	6-Apr-01	7.07	4.58	5.38			20	6.89
97	7-Apr-01	5.52	3.80	4.61			20	6.65

STATISTICS	
Maximum Daily Maximum (MDM)	21.2 ºC
Maximum 7-Day Maximum (MWM)	20.4 ºC
Maximum Daily Average (MDA)	19.1 ºC
Maximum 7-Day Average (MWA)	18.7 ºC
Mean Daily Maximum	8.1 ºC
Mean Daily Average	7.0 ºC
Mean Daily Minimum	6.1 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	-0.2 ºC
Mean of all Data	7.0 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	119	98%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	4.89	3.33	4.17			20	6.25
99	9-Apr-01	4.89	2.86	3.74			20	5.89
100	10-Apr-01	6.14	2.70	4.09			20	5.98
101	11-Apr-01	5.83	3.96	4.78			20	5.92
102	12-Apr-01	5.98	4.11	5.00			20	5.76
103	13-Apr-01	5.83	3.96	4.82			20	5.58
104	14-Apr-01	7.84	3.64	5.34			20	5.91
105	15-Apr-01	8.61	4.89	6.64			20	6.45
106	16-Apr-01	9.07	5.67	7.26			20	7.04
107	17-Apr-01	10.47	6.61	8.47			20	7.66
108	18-Apr-01	10.32	7.22	8.78			20	8.30
109	19-Apr-01	9.69	7.07	8.20			20	8.83
110	20-Apr-01	8.31	5.98	6.83			20	9.19
111	21-Apr-01	7.53	5.36	6.36			20	9.14
112	22-Apr-01	8.46	4.89	6.44			20	9.12
113	23-Apr-01	8.61	6.61	7.49			20	9.06
114	24-Apr-01	11.71	6.92	8.83			20	9.23
115	25-Apr-01	12.63	8.31	10.41			20	9.56
116	26-Apr-01	12.17	8.61	10.30			20	9.92
117	27-Apr-01	10.47	8.31	9.48			20	10.23
118	28-Apr-01	9.84	7.38	8.17			20	10.56
119	29-Apr-01	7.53	5.52	6.44			20	10.42
120	30-Apr-01	7.53	5.98	6.47			20	10.27
121	1-May-01	7.53	5.36	6.51			20	9.67
122	2-May-01	6.61	4.27	5.27			20	8.81
123	3-May-01	8.46	3.80	5.64			20	8.28
124	4-May-01	9.84	5.67	7.51			20	8.19
125	5-May-01	10.16	7.69	9.00			20	8.24
126	6-May-01	9.07	5.52	7.42			20	8.46
127	7-May-01	9.84	5.83	7.71			20	8.79
128	8-May-01	9.53	7.22	8.49			20	9.07
129	9-May-01	9.23	7.07	8.18			20	9.45
130	10-May-01	9.53	6.45	7.90			20	9.60
131	11-May-01	9.53	6.45	8.03			20	9.56
132	12-May-01	9.69	7.07	8.30			20	9.49
133	13-May-01	9.69	7.38	8.47			20	9.58
134	14-May-01	8.46	6.76	7.62			20	9.38
135	15-May-01	7.84	6.45	7.06			20	9.14
136	16-May-01	7.53	6.29	6.95			20	8.90
137	17-May-01	7.69	5.52	6.65			20	8.63
138	18-May-01	9.53	6.76	7.88			20	8.63
139	19-May-01	9.23	6.92	8.03			20	8.57
140	20-May-01	9.53	7.07	8.27			20	8.54
141	21-May-01	9.84	5.98	7.82			20	8.74
142	22-May-01	11.39	7.38	9.25			20	9.25
143	23-May-01	12.01	8.31	10.17			20	9.89
144	24-May-01	11.39	8.61	10.25			20	10.42
145	25-May-01	10.78	8.61	9.86			20	10.60
146	26-May-01	10.93	8.31	9.71			20	10.84
147	27-May-01	10.63	8.92	9.68			20	11.00
148	28-May-01	11.09	7.99	9.47			20	11.17

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	11.24	8.31	9.91			20	11.15
150	30-May-01	10.93	7.53	9.32			20	11.00
151	31-May-01	13.41	9.07	10.92			20	11.29
152	1-Jun-01	12.94	9.84	11.60			20	11.60
153	2-Jun-01	13.25	10.63	11.83			20	11.93
154	3-Jun-01	12.01	8.61	9.55			20	12.12
155	4-Jun-01	8.31	6.29	7.15			20	11.73
156	5-Jun-01	8.15	6.29	7.18			20	11.29
157	6-Jun-01	10.63	7.53	8.65			20	11.24
158	7-Jun-01	10.47	7.99	9.39			20	10.82
159	8-Jun-01	12.63	8.61	10.42			20	10.78
160	9-Jun-01	13.25	10.01	11.72			20	10.78
161	10-Jun-01	13.25	10.01	11.66			20	10.96
162	11-Jun-01	12.48	10.32	11.53			20	11.55
163	12-Jun-01	11.09	8.77	9.53			20	11.97
164	13-Jun-01	9.23	6.61	7.87			20	11.77
165	14-Jun-01	9.84	6.76	8.41			20	11.68
166	15-Jun-01	13.25	7.84	10.08			20	11.77
167	16-Jun-01	14.33	9.38	11.79			20	11.92
168	17-Jun-01	14.81	11.24	12.93			20	12.15
169	18-Jun-01	14.33	10.16	12.32			20	12.41
170	19-Jun-01	14.97	10.01	12.37			20	12.97
171	20-Jun-01	16.08	10.78	13.30			20	13.94
172	21-Jun-01	16.87	12.32	14.61			20	14.95
173	22-Jun-01	18.15	13.25	15.64			20	15.65
174	23-Jun-01	18.15	13.71	15.91			20	16.19
175	24-Jun-01	17.67	13.41	15.64			20	16.60
176	25-Jun-01	16.23	12.32	14.41			20	16.87
177	26-Jun-01	17.18	12.94	14.93			20	17.19
178	27-Jun-01	16.71	13.56	15.10			20	17.28
179	28-Jun-01	18.31	12.94	15.19			20	17.49
180	29-Jun-01	18.96	13.56	16.08			20	17.60
181	30-Jun-01	18.15	14.65	16.51			20	17.60
182	1-Jul-01	19.93	14.02	16.82			20	17.92
183	2-Jul-01	20.74	15.44	18.06			20	18.57
184	3-Jul-01	21.24	16.23	18.67			20	19.15
185	4-Jul-01	20.41	17.02	18.52			20	19.68
186	5-Jul-01	19.28	16.71	17.68			20	19.82
187	6-Jul-01	18.96	14.49	16.51			20	19.82
188	7-Jul-01	18.47	15.76	17.25			20	19.86
189	8-Jul-01	18.63	15.13	16.62			20	19.68
190	9-Jul-01	18.47	15.92	17.23			20	19.35
191	10-Jul-01	19.93	14.97	17.13			20	19.16
192	11-Jul-01	19.44	16.71	18.14			20	19.03
193	12-Jul-01	19.93	16.08	17.93			20	19.12
194	13-Jul-01	19.28	16.08	17.86			20	19.16
195	14-Jul-01	19.12	15.60	17.55			20	19.26
196	15-Jul-01	18.31	16.08	16.99			20	19.21
197	16-Jul-01	16.71	14.49	15.63			20	18.96

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	16.08	13.71	14.85			20	18.41
199	18-Jul-01	15.92	13.25	14.52			20	17.91
200	19-Jul-01	18.15	13.09	15.30			20	17.65
201	20-Jul-01	17.99	14.97	16.51			20	17.47
202	21-Jul-01	18.63	14.65	16.64			20	17.40
203	22-Jul-01	19.44	15.28	17.28			20	17.56
204	23-Jul-01	19.61	15.44	17.55			20	17.97
205	24-Jul-01	20.09	15.60	17.84			20	18.55
206	25-Jul-01	20.58	16.55	18.53			20	19.21
207	26-Jul-01	20.41	16.71	18.78			20	19.54
208	27-Jul-01	20.09	16.71	18.57			20	19.84
209	28-Jul-01	19.93	16.55	17.87			20	20.02
210	29-Jul-01	17.99	14.97	16.59			20	19.81
211	30-Jul-01	17.34	14.97	15.78			20	19.49
212	31-Jul-01	16.23	13.25	14.48			20	18.94
213	1-Aug-01	17.51	13.25	15.08			20	18.50
214	2-Aug-01	18.96	14.81	16.71			20	18.29
215	3-Aug-01	18.96	16.23	17.67			20	18.13
216	4-Aug-01	18.96	16.87	17.97			20	17.99
217	5-Aug-01	19.61	15.92	17.65			20	18.22
218	6-Aug-01	20.41	16.87	18.52			20	18.66
219	7-Aug-01	20.25	17.51	18.83			20	19.24
220	8-Aug-01	20.91	17.34	18.90			20	19.72
221	9-Aug-01	20.74	17.51	19.06			20	19.98
222	10-Aug-01	20.25	17.02	18.76			20	20.16
223	11-Aug-01	20.25	17.34	18.53			20	20.35
224	12-Aug-01	19.28	16.55	18.03			20	20.30
225	13-Aug-01	19.12	17.18	18.16			20	20.11
226	14-Aug-01	18.63	16.08	17.32			20	19.88
227	15-Aug-01	19.44	16.55	17.91			20	19.67
228	16-Aug-01	19.77	16.71	18.19			20	19.53
229	17-Aug-01	19.61	16.71	18.24			20	19.44
230	18-Aug-01	19.44	16.55	18.06			20	19.33
231	19-Aug-01	19.28	16.23	17.76			20	19.33
232	20-Aug-01	19.12	15.76	17.27			20	19.33
233	21-Aug-01	18.31	15.28	16.81			20	19.28
234	22-Aug-01	17.99	15.13	16.68			20	19.07
235	23-Aug-01	17.83	15.13	16.50			20	18.80
236	24-Aug-01	18.31	15.28	16.68			20	18.61
237	25-Aug-01	18.80	15.28	16.95			20	18.52
238	26-Aug-01	19.12	15.92	17.54			20	18.50
239	27-Aug-01	19.61	16.39	17.94			20	18.57
240	28-Aug-01	19.61	16.55	18.11			20	18.75
241	29-Aug-01	19.12	15.76	17.45			20	18.91
242	30-Aug-01	18.96	15.92	17.46			20	19.08
243	31-Aug-01	18.31	16.08	17.14			20	19.08
244	1-Sep-01	17.83	15.60	16.88			20	18.94
245	2-Sep-01	18.15	15.28	16.72			20	18.80
246	3-Sep-01	18.15	15.28	16.74			20	18.59

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	18.15	15.28	16.48			20	18.38
248	5-Sep-01	16.87	14.97	15.93			20	18.06
249	6-Sep-01	15.76	12.17	13.17			20	17.60
250	7-Sep-01	12.94	11.39	12.11			20	16.84
251	8-Sep-01	13.56	10.32	11.71			20	16.23
252	9-Sep-01	14.18	10.93	12.38			20	15.66
253	10-Sep-01	14.97	11.55	13.06			20	15.20
254	11-Sep-01	15.44	12.63	13.94			20	14.82
255	12-Sep-01	15.76	13.25	14.39			20	14.66
256	13-Sep-01	17.18	14.65	15.63			20	14.86
257	14-Sep-01	17.34	14.97	16.07			20	15.49
258	15-Sep-01	17.18	14.33	15.62			20	16.01
259	16-Sep-01	16.55	14.18	15.38			20	16.35
260	17-Sep-01	16.08	13.56	14.80			20	16.50
261	18-Sep-01	15.60	12.94	14.05			20	16.53
262	19-Sep-01	15.13	12.48	13.66			20	16.44
263	20-Sep-01	14.33	11.39	12.70			11	16.03
264	21-Sep-01	12.32	10.93	11.56			20	15.31
265	22-Sep-01	10.78	7.69	8.91			20	14.40
266	23-Sep-01	8.92	5.52	7.14			20	13.31
267	24-Sep-01	8.77	5.05	6.72			20	12.26
268	25-Sep-01	9.53	5.52	7.11			20	11.40
269	26-Sep-01	10.16	6.45	8.01			20	10.69
270	27-Sep-01	10.16	6.76	8.28			20	10.09
271	28-Sep-01	10.01	7.07	8.47			20	9.76
272	29-Sep-01	10.01	7.84	8.90			20	9.65
273	30-Sep-01	10.47	8.77	9.48			20	9.87
274	1-Oct-01	12.01	10.16	10.92			20	10.34
275	2-Oct-01	11.71	9.07	10.24			20	10.65
276	3-Oct-01	9.84	7.53	8.72			20	10.60
277	4-Oct-01	9.23	6.45	7.73			20	10.47
278	5-Oct-01	8.15	5.52	6.66			20	10.20
279	6-Oct-01	6.92	4.27	5.51			20	9.76
280	7-Oct-01	6.76	3.80	5.07			20	9.23
281	8-Oct-01	7.07	4.11	5.27			20	8.53
282	9-Oct-01	7.53	4.42	5.67			20	7.93
283	10-Oct-01	8.46	6.14	6.98			20	7.73
284	11-Oct-01	8.61	7.22	7.92			20	7.64
285	12-Oct-01	8.31	7.38	7.72			20	7.67
286	13-Oct-01	7.22	6.29	6.68			20	7.71
287	14-Oct-01	8.15	6.14	6.85			20	7.91
288	15-Oct-01	8.15	6.45	7.05			20	8.06
289	16-Oct-01	7.22	5.21	6.23			20	8.02
290	17-Oct-01	7.07	5.05	5.91			20	7.82
291	18-Oct-01	6.92	4.89	5.74			20	7.58
292	19-Oct-01	7.84	6.14	6.77			20	7.51
293	20-Oct-01	7.84	5.98	6.78			20	7.60
294	21-Oct-01	7.84	6.45	7.28			20	7.55
295	22-Oct-01	6.14	3.80	4.66			20	7.27
296	23-Oct-01	3.96	2.38	3.14			20	6.80

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
297	24-Oct-01	3.48	1.76	2.52			20	6.29
298	25-Oct-01	3.64	1.91	2.64			20	5.82
299	26-Oct-01	4.74	2.54	3.39			20	5.38
300	27-Oct-01	6.14	4.42	5.05			20	5.13
301	28-Oct-01	6.14	4.58	5.34			20	4.89
302	29-Oct-01	6.45	5.67	5.99			21	4.94
303	30-Oct-01	5.98	5.36	5.74			20	5.22
304	31-Oct-01	5.83	5.21	5.50			20	5.56
305	1-Nov-01	5.21	3.80	4.58			20	5.78
306	2-Nov-01	3.48	1.76	2.36			20	5.60
307	3-Nov-01	1.60	0.48	1.02			20	4.96
308	4-Nov-01	1.91	0.16	0.95			20	4.35
309	5-Nov-01	2.70	1.60	2.05			20	3.82
310	6-Nov-01	2.54	1.91	2.23			20	3.32
311	7-Nov-01	2.23	0.96	1.50			20	2.81
312	8-Nov-01	0.81	0.00	0.46			20	2.18
313	9-Nov-01	1.28	0.00	0.56			20	1.87
314	10-Nov-01	0.32	0.00	0.04			20	1.68
315	11-Nov-01	0.32	0.00	0.09			20	1.46
316	12-Nov-01	0.48	0.00	0.12			20	1.14
317	13-Nov-01	0.00	0.00	0.00			20	0.78
318	14-Nov-01	0.00	-0.16	-0.05			20	0.46
319	15-Nov-01	0.00	0.00	0.00			20	0.34
320	16-Nov-01	0.00	0.00	0.00			20	0.16
321	17-Nov-01	0.00	0.00	0.00			20	0.11
322	18-Nov-01	0.00	0.00	0.00			20	0.07
323	19-Nov-01	0.00	0.00	0.00			20	0.00
324	20-Nov-01	0.00	0.00	0.00			20	0.00
325	21-Nov-01	0.00	0.00	0.00			20	0.00
326	22-Nov-01	0.00	0.00	0.00			20	0.00
327	23-Nov-01	0.16	0.00	0.01			20	0.02
328	24-Nov-01	0.16	0.00	0.07			20	0.05
329	25-Nov-01	0.00	0.00	0.00			20	0.05
330	26-Nov-01	0.00	0.00	0.00			20	0.05
331	27-Nov-01	0.16	0.00	0.01			20	0.07
332	28-Nov-01	0.00	0.00	0.00			20	0.07
333	29-Nov-01	0.16	0.00	0.07			20	0.09
334	30-Nov-01	0.00	0.00	0.00			20	0.07
335	1-Dec-01	0.00	0.00	0.00			20	0.05
336	2-Dec-01	0.16	0.00	0.04			20	0.07
337	3-Dec-01	0.16	0.00	0.09			20	0.09
338	4-Dec-01	0.16	0.00	0.05			20	0.09
339	5-Dec-01	0.00	0.00	0.00			20	0.09
340	6-Dec-01	0.00	0.00	0.00			20	0.07
341	7-Dec-01	0.00	0.00	0.00			20	0.07
342	8-Dec-01	0.00	0.00	0.00			20	0.07
343	9-Dec-01	0.00	0.00	0.00			20	0.05
344	10-Dec-01	0.00	0.00	0.00			20	0.02
345	11-Dec-01	0.00	0.00	0.00			20	0.00
346	12-Dec-01	0.00	0.00	0.00			20	0.00
347	13-Dec-01	0.16	0.00	0.01			20	0.02

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Big Creek
Data Collection Site: ~1km above mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1050 M
Waterbody ID Number: 3

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : 0.1

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
348	14-Dec-01	0.00	0.00	0.00			20	0.02
349	15-Dec-01	0.00	0.00	0.00			20	0.02
350	16-Dec-01	0.00	0.00	0.00			20	0.02
351	17-Dec-01	0.00	0.00	0.00			20	0.02
352	18-Dec-01	0.00	0.00	0.00			20	0.02
353	19-Dec-01	0.00	0.00	0.00			20	0.02
354	20-Dec-01	0.00	0.00	0.00			20	0.00
355	21-Dec-01	0.00	0.00	0.00			20	0.00
356	22-Dec-01	0.00	0.00	0.00			20	0.00
357	23-Dec-01	0.00	0.00	0.00			20	0.00
358	24-Dec-01	0.00	0.00	0.00			20	0.00
359	25-Dec-01	0.16	0.00	0.05			20	0.02
360	26-Dec-01	0.00	0.00	0.00			20	0.02
361	27-Dec-01	0.00	0.00	0.00			20	0.02
362	28-Dec-01	0.00	0.00	0.00			20	0.02
363	29-Dec-01	0.00	0.00	0.00			20	0.02
364	30-Dec-01	0.00	0.00	0.00			20	0.02
365	31-Dec-01	0.00	0.00	0.00			20	0.02

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.00	0.00	0.00			20	
2	2-Jan-01	0.00	0.00	0.00			20	
3	3-Jan-01	0.00	0.00	0.00			20	
4	4-Jan-01	0.00	0.00	0.00			20	
5	5-Jan-01	0.00	0.00	0.00			20	
6	6-Jan-01	0.00	0.00	0.00			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.00
8	8-Jan-01	0.00	0.00	0.00			20	0.00
9	9-Jan-01	0.00	0.00	0.00			20	0.00
10	10-Jan-01	0.00	0.00	0.00			20	0.00
11	11-Jan-01	0.00	0.00	0.00			20	0.00
12	12-Jan-01	0.16	0.00	0.06			20	0.02
13	13-Jan-01	0.16	0.00	0.03			20	0.05
14	14-Jan-01	0.16	0.00	0.05			20	0.07
15	15-Jan-01	0.16	0.00	0.01			20	0.09
16	16-Jan-01	0.00	0.00	0.00			20	0.09
17	17-Jan-01	0.00	0.00	0.00			20	0.09
18	18-Jan-01	0.00	0.00	0.00			20	0.09
19	19-Jan-01	0.16	0.00	0.02			20	0.09
20	20-Jan-01	0.00	0.00	0.00			20	0.07
21	21-Jan-01	0.16	0.00	0.02			20	0.07
22	22-Jan-01	0.16	0.00	0.06			20	0.07
23	23-Jan-01	0.16	0.00	0.07			20	0.09
24	24-Jan-01	0.16	0.00	0.06			20	0.11
25	25-Jan-01	0.16	0.00	0.09			20	0.14
26	26-Jan-01	0.48	0.00	0.22			20	0.18
27	27-Jan-01	0.00	0.00	0.00			20	0.18
28	28-Jan-01	0.00	0.00	0.00			20	0.16
29	29-Jan-01	0.00	0.00	0.00			20	0.14
30	30-Jan-01	0.00	0.00	0.00			20	0.11
31	31-Jan-01	0.00	0.00	0.00			20	0.09
32	1-Feb-01	0.16	0.00	0.04			20	0.09
33	2-Feb-01	0.16	0.00	0.06			20	0.05
34	3-Feb-01	0.48	0.00	0.19			20	0.11
35	4-Feb-01	1.28	0.32	0.73			20	0.30
36	5-Feb-01	1.59	0.80	1.11			20	0.52
37	6-Feb-01	1.28	0.32	0.75			20	0.71
38	7-Feb-01	0.64	0.00	0.29			20	0.80
39	8-Feb-01	0.00	0.00	0.00			20	0.78
40	9-Feb-01	0.00	0.00	0.00			20	0.75
41	10-Feb-01	0.00	0.00	0.00			20	0.68
42	11-Feb-01	0.16	0.00	0.01			20	0.52
43	12-Feb-01	0.16	0.00	0.02			20	0.32
44	13-Feb-01	0.00	0.00	0.00			20	0.14
45	14-Feb-01	0.00	0.00	0.00			20	0.05
46	15-Feb-01	0.16	0.00	0.06			20	0.07
47	16-Feb-01	0.32	0.00	0.12			20	0.11

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	9	10%	
19 °C Average	0	0%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	45	49%	
9 °C Average Spring	47	51%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	50	54%	
9 °C Average Fall	49	53%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	95	51%	
9 °C Average Total *	96	52%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	85	92%	
Juvenile Days Eval'd w/in Dates	92	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	32	52%	
Spawning Days Eval'd w/in Dates	61	1-Sep	31-Oct

NOTES

Comments: Combined data from two deployments. Stream is *a priori* natural. Monitored as state Outstanding Resource Water nominee. Temperature exceeds Idaho's cold water aquatic life criteria less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	1.76	0.32	0.87			20	0.37
49	18-Feb-01	1.76	0.48	0.96			20	0.59
50	19-Feb-01	2.07	0.64	1.21			20	0.87
51	20-Feb-01	1.43	0.80	1.16			20	1.07
52	21-Feb-01	2.23	1.12	1.57			20	1.39
53	22-Feb-01	2.39	1.12	1.56			20	1.71
54	23-Feb-01	1.76	0.32	0.96			20	1.91
55	24-Feb-01	1.76	0.00	0.59			20	1.91
56	25-Feb-01	1.28	0.00	0.32			20	1.85
57	26-Feb-01	0.96	0.00	0.18			20	1.69
58	27-Feb-01	0.00	0.00	0.00			20	1.48
59	28-Feb-01	0.00	0.00	0.00			20	1.16
60	1-Mar-01	0.00	0.00	0.00			20	0.82
61	2-Mar-01	0.16	0.00	0.08			20	0.59
62	3-Mar-01	2.07	0.00	0.73			20	0.64
63	4-Mar-01	2.39	0.32	1.20			20	0.80
64	5-Mar-01	2.86	1.28	1.76			20	1.07
65	6-Mar-01	3.49	0.48	1.66			20	1.57
66	7-Mar-01	3.33	0.32	1.40			20	2.04
67	8-Mar-01	3.18	0.16	1.38			20	2.50
68	9-Mar-01	3.18	0.96	1.88			20	2.93
69	10-Mar-01	4.58	1.59	2.57			20	3.29
70	11-Mar-01	4.43	1.43	2.53			20	3.58
71	12-Mar-01	5.05	1.91	3.00			20	3.89
72	13-Mar-01	4.58	0.96	2.50			20	4.05
73	14-Mar-01	4.27	1.28	2.40			20	4.18
74	15-Mar-01	3.02	0.00	1.35			20	4.16
75	16-Mar-01	4.12	1.12	2.35			20	4.29
76	17-Mar-01	4.12	0.96	2.36			20	4.23
77	18-Mar-01	5.05	1.76	3.20			20	4.32
78	19-Mar-01	5.36	2.71	3.76			20	4.36
79	20-Mar-01	7.07	2.23	4.03			20	4.72
80	21-Mar-01	7.22	1.59	3.64			20	5.14
81	22-Mar-01	7.22	0.96	3.42			20	5.74
82	23-Mar-01	6.92	1.59	3.78			20	6.14
83	24-Mar-01	7.22	2.23	4.47			20	6.58
84	25-Mar-01	5.83	3.18	4.21			20	6.69
85	26-Mar-01	5.52	2.54	3.89			20	6.71
86	27-Mar-01	6.61	0.64	3.26			20	6.65
87	28-Mar-01	7.99	2.54	4.69			20	6.76
88	29-Mar-01	9.23	3.18	5.44			20	7.05
89	30-Mar-01	8.46	3.33	4.93			20	7.27
90	31-Mar-01	5.36	1.43	3.54			20	7.00
91	1-Apr-01	8.46	2.71	5.13			19	7.38
92	2-Apr-01	5.67	2.07	3.78			20	7.40
93	3-Apr-01	7.38	0.48	3.15			20	7.51
94	4-Apr-01	9.38	1.12	3.96			20	7.71
95	5-Apr-01	9.23	0.48	3.83			20	7.71
96	6-Apr-01	5.05	1.76	3.33			20	7.22
97	7-Apr-01	4.89	1.91	3.30			20	7.15

STATISTICS	
Maximum Daily Maximum (MDM)	23.6 ºC
Maximum 7-Day Maximum (MWM)	22.1 ºC
Maximum Daily Average (MDA)	17.3 ºC
Maximum 7-Day Average (MWA)	16.5 ºC
Mean Daily Maximum	9.3 ºC
Mean Daily Average	6.6 ºC
Mean Daily Minimum	4.7 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	6.6 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	122	100%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	3.81	2.07	3.00			20	6.49
99	9-Apr-01	6.61	0.32	2.90			20	6.62
100	10-Apr-01	6.76	0.16	3.16			20	6.53
101	11-Apr-01	5.98	1.76	3.36			20	6.05
102	12-Apr-01	6.61	2.54	3.99			20	5.67
103	13-Apr-01	5.67	2.07	3.60			20	5.76
104	14-Apr-01	9.38	1.12	4.54			20	6.40
105	15-Apr-01	8.30	1.43	4.68			20	7.04
106	16-Apr-01	10.47	2.07	5.70			20	7.60
107	17-Apr-01	11.70	3.18	6.76			20	8.30
108	18-Apr-01	10.77	3.33	6.63			20	8.99
109	19-Apr-01	7.84	3.96	5.70			20	9.16
110	20-Apr-01	6.92	3.81	5.15			20	9.34
111	21-Apr-01	7.22	3.02	4.90			20	9.03
112	22-Apr-01	8.30	2.39	5.20			20	9.03
113	23-Apr-01	7.53	3.96	5.54			20	8.61
114	24-Apr-01	12.63	3.49	7.34			20	8.74
115	25-Apr-01	12.94	4.12	7.86			20	9.05
116	26-Apr-01	10.31	4.58	7.30			20	9.41
117	27-Apr-01	10.31	5.05	7.54			20	9.89
118	28-Apr-01	8.14	4.43	6.14			20	10.02
119	29-Apr-01	8.30	3.33	5.71			20	10.02
120	30-Apr-01	7.22	4.74	5.86			20	9.98
121	1-May-01	7.84	3.49	5.14			20	9.29
122	2-May-01	6.45	2.54	4.26			20	8.37
123	3-May-01	10.77	2.07	5.62			20	8.43
124	4-May-01	12.01	3.33	7.08			20	8.68
125	5-May-01	12.01	5.36	7.92			20	9.23
126	6-May-01	10.62	3.02	6.26			20	9.56
127	7-May-01	11.86	3.33	6.99			20	10.22
128	8-May-01	10.47	4.58	7.37			20	10.60
129	9-May-01	10.00	5.05	7.35			20	11.11
130	10-May-01	11.54	3.96	7.18			20	11.22
131	11-May-01	11.70	4.12	7.55			20	11.17
132	12-May-01	12.16	5.05	8.21			20	11.19
133	13-May-01	11.70	6.14	8.33			20	11.35
134	14-May-01	9.69	5.67	7.47			20	11.04
135	15-May-01	7.53	5.52	6.61			20	10.62
136	16-May-01	9.84	5.67	7.10			20	10.59
137	17-May-01	9.53	3.81	6.53			20	10.31
138	18-May-01	11.39	5.67	7.88			20	10.26
139	19-May-01	10.31	4.89	7.43			20	10.00
140	20-May-01	11.08	5.36	7.72			20	9.91
141	21-May-01	11.86	3.81	7.39			20	10.22
142	22-May-01	13.56	5.36	8.93			20	11.08
143	23-May-01	13.40	6.29	9.66			20	11.59
144	24-May-01	13.24	7.07	9.87			20	12.12
145	25-May-01	12.47	7.38	9.85			20	12.27
146	26-May-01	12.78	7.38	9.88			20	12.63
147	27-May-01	12.16	7.68	9.58			20	12.78
148	28-May-01	13.56	7.07	9.84			20	13.02

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	13.24	7.07	9.67			20	12.98
150	30-May-01	13.40	5.67	9.14			20	12.98
151	31-May-01	15.27	7.07	10.66			20	13.27
152	1-Jun-01	14.96	7.53	10.94	J		20	13.62
153	2-Jun-01	14.64	9.23	11.36	J		20	13.89
154	3-Jun-01	9.69	7.22	7.95	J		20	13.54
155	4-Jun-01	7.53	5.36	6.40			20	12.68
156	5-Jun-01	8.92	4.89	6.72			20	12.06
157	6-Jun-01	11.54	6.14	8.46			20	11.79
158	7-Jun-01	13.24	6.29	9.28			20	11.50
159	8-Jun-01	15.27	7.07	10.82			20	11.55
160	9-Jun-01	15.59	8.14	11.38			20	11.68
161	10-Jun-01	16.06	7.99	11.29			20	12.59
162	11-Jun-01	13.40	8.92	10.94	J		20	13.43
163	12-Jun-01	9.53	7.38	8.47	J		20	13.52
164	13-Jun-01	11.54	5.52	7.81	J		20	13.52
165	14-Jun-01	12.78	5.21	8.51	J		20	13.45
166	15-Jun-01	15.27	6.45	10.32	J		20	13.45
167	16-Jun-01	16.38	6.61	10.90	J		20	13.57
168	17-Jun-01	16.22	8.30	11.81	J		20	13.59
169	18-Jun-01	15.11	7.53	11.07	J		20	13.83
170	19-Jun-01	16.38	7.07	11.26	J		20	14.81
171	20-Jun-01	17.97	8.14	12.48	J		20	15.73
172	21-Jun-01	19.26	9.69	13.84	J		20	16.66
173	22-Jun-01	19.75	10.31	14.48	J		20	17.30
174	23-Jun-01	18.13	10.77	14.25	J		20	17.55
175	24-Jun-01	19.10	10.47	14.26	J		20	17.96
176	25-Jun-01	16.85	9.38	12.76	J		20	18.21
177	26-Jun-01	19.91	10.47	14.33	J		20	18.71
178	27-Jun-01	14.96	10.93	13.29	J		20	18.28
179	28-Jun-01	19.75	11.54	14.79	J		20	18.35
180	29-Jun-01	20.07	10.62	14.90	J		20	18.40
181	30-Jun-01	18.94	11.24	14.73	J		20	18.51
182	1-Jul-01	21.38	11.24	15.75	J		20	18.84
183	2-Jul-01	21.71	12.01	16.41	J		20	19.53
184	3-Jul-01	21.88	12.16	16.62	J		20	19.81
185	4-Jul-01	19.59	13.86	16.48	J		20	20.47
186	5-Jul-01	19.59	14.48	16.72	J		20	20.45
187	6-Jul-01	20.56	12.94	16.42	J		20	20.52
188	7-Jul-01	17.17	12.63	15.13	J		20	20.27
189	8-Jul-01	18.29	13.40	15.50	J		20	19.83
190	9-Jul-01	18.45	12.94	15.03	J		20	19.36
191	10-Jul-01	21.05	12.63	16.12	J		20	19.24
192	11-Jul-01	20.07	13.86	16.51	J		20	19.31
193	12-Jul-01	21.54	12.94	16.88	J		20	19.59
194	13-Jul-01	20.23	12.78	16.39	J		20	19.54
195	14-Jul-01	19.75	12.32	16.17	J		20	19.91
196	15-Jul-01	17.64	12.94	15.33	J		20	19.82
197	16-Jul-01	17.33	12.16	14.52	J		20	19.66

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	16.38	10.16	13.22	J		20	18.99
199	18-Jul-01	17.17	10.00	13.08	J		20	18.58
200	19-Jul-01	20.39	9.38	14.23	J		20	18.41
201	20-Jul-01	18.77	11.39	15.10	J		20	18.20
202	21-Jul-01	20.88	10.77	15.26	J		20	18.37
203	22-Jul-01	21.38	10.31	15.08	J		20	18.90
204	23-Jul-01	20.72	11.24	15.42	J		20	19.38
205	24-Jul-01	22.38	11.08	16.11	J		20	20.24
206	25-Jul-01	22.71	11.39	16.40	J		20	21.03
207	26-Jul-01	22.54	11.70	16.47	J		20	21.34
208	27-Jul-01	21.54	10.93	15.84	J		20	21.74
209	28-Jul-01	20.23	11.08	15.25	J		20	21.64
210	29-Jul-01	20.23	10.16	14.59	J		20	21.48
211	30-Jul-01	14.96	12.78	13.52	J		20	20.66
212	31-Jul-01	18.29	10.62	13.46	J		20	20.07
213	1-Aug-01	19.75	9.07	13.85	J		20	19.65
214	2-Aug-01	22.21	10.62	15.70	J		20	19.60
215	3-Aug-01	20.23	11.54	15.54	J		20	19.41
216	4-Aug-01	21.21	12.78	16.22	J		20	19.55
217	5-Aug-01	22.21	10.93	15.80	J		20	19.84
218	6-Aug-01	23.21	11.54	16.61	J		20	21.02
219	7-Aug-01	21.21	12.32	16.43	J		20	21.43
220	8-Aug-01	23.55	12.63	17.33	J		20	21.98
221	9-Aug-01	20.72	12.01	16.03	J		20	21.76
222	10-Aug-01	22.38	12.16	16.62	J		20	22.07
223	11-Aug-01	21.54	12.78	16.57	J		20	22.12
224	12-Aug-01	21.05	12.01	16.08	J		20	21.95
225	13-Aug-01	20.39	12.47	15.89	J		20	21.55
226	14-Aug-01	19.10	12.16	15.53	J		20	21.25
227	15-Aug-01	19.75	12.94	16.09	J		20	20.70
228	16-Aug-01	21.54	11.70	15.95	J		20	20.82
229	17-Aug-01	22.38	11.70	16.34	J		20	20.82
230	18-Aug-01	21.88	11.54	16.14	J		20	20.87
231	19-Aug-01	21.38	11.24	15.63	J		20	20.92
232	20-Aug-01	20.07	9.69	14.35	J		20	20.87
233	21-Aug-01	20.07	10.16	14.53	J		20	21.01
234	22-Aug-01	19.59	10.00	14.38	J		20	20.99
235	23-Aug-01	20.07	10.16	14.55	J		20	20.78
236	24-Aug-01	20.56	10.00	14.48	J		20	20.52
237	25-Aug-01	20.88	9.69	14.51	J		20	20.37
238	26-Aug-01	20.56	10.47	14.87	J		20	20.26
239	27-Aug-01	19.42	11.54	14.93	J		20	20.16
240	28-Aug-01	17.81	10.93	14.30	J		20	19.84
241	29-Aug-01	19.91	10.47	14.73	J		20	19.89
242	30-Aug-01	16.38	10.16	13.37	J		20	19.36
243	31-Aug-01	17.49	10.77	13.98	J		20	18.92
244	1-Sep-01	17.81	10.62	14.12		S	20	18.48
245	2-Sep-01	18.45	10.47	14.09		S	20	18.18
246	3-Sep-01	17.81	10.00	13.81		S	20	17.95

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	16.69	10.00	13.42		S	20	17.79
248	5-Sep-01	17.17	10.62	13.54		S	20	17.40
249	6-Sep-01	14.17	9.69	11.37		S	20	17.08
250	7-Sep-01	14.33	7.38	10.19		S	20	16.63
251	8-Sep-01	15.43	6.29	9.98		S	20	16.29
252	9-Sep-01	16.53	6.61	10.70		S	20	16.02
253	10-Sep-01	17.17	7.38	11.45		S	20	15.93
254	11-Sep-01	17.97	8.46	12.30		S	20	16.11
255	12-Sep-01	17.97	10.00	13.28		S	20	16.22
256	13-Sep-01	19.10	11.70	14.45		S	20	16.93
257	14-Sep-01	18.61	11.70	13.90		S	17	17.54
258	15-Sep-01	18.25	9.79	13.15		S	20	17.94
259	16-Sep-01	15.86	11.19	13.00		S	20	17.85
260	17-Sep-01	16.49	10.57	12.66		S	20	17.75
261	18-Sep-01	17.28	9.33	12.21		S	20	17.65
262	19-Sep-01	15.54	8.41	11.29		S	20	17.30
263	20-Sep-01	15.23	6.86	10.20		S	20	16.75
264	21-Sep-01	15.23	6.86	10.19		S	20	16.27
265	22-Sep-01	15.38	6.86	10.24		S	20	15.86
266	23-Sep-01	15.86	7.32	10.74		S	20	15.86
267	24-Sep-01	16.33	7.94	11.22		S	20	15.84
268	25-Sep-01	14.75	7.79	10.75		S	20	15.47
269	26-Sep-01	15.23	9.48	11.21		S	20	15.43
270	27-Sep-01	15.07	7.02	10.28		S	20	15.41
271	28-Sep-01	14.28	9.18	11.18		S	20	15.27
272	29-Sep-01	14.59	7.17	10.18		S	20	15.16
273	30-Sep-01	13.82	5.93	9.02		S	20	14.87
274	1-Oct-01	14.13	6.24	9.26		S	20	14.55
275	2-Oct-01	13.67	6.09	9.17		S	20	14.40
276	3-Oct-01	13.20	5.93	8.87			20	14.11
277	4-Oct-01	12.43	5.62	8.24			20	13.73
278	5-Oct-01	11.19	4.06	6.86			20	13.29
279	6-Oct-01	11.19	3.91	6.74			20	12.80
280	7-Oct-01	10.42	4.69	7.44			20	12.32
281	8-Oct-01	11.19	7.48	8.69			20	11.90
282	9-Oct-01	8.10	5.47	6.81			20	11.10
283	10-Oct-01	8.10	2.17	4.93			20	10.37
284	11-Oct-01	8.25	5.31	6.36			20	9.78
285	12-Oct-01	6.86	2.81	4.68			20	9.16
286	13-Oct-01	9.48	4.84	6.39			20	8.91
287	14-Oct-01	10.42	5.93	7.35			20	8.91
288	15-Oct-01	9.02	4.84	6.22			20	8.60
289	16-Oct-01	9.18	3.28	5.68			20	8.76
290	17-Oct-01	9.33	5.16	7.15			20	8.93
291	18-Oct-01	7.32	2.33	4.53			20	8.80
292	19-Oct-01	9.64	5.00	6.66			20	9.20
293	20-Oct-01	9.02	4.69	6.48			20	9.13
294	21-Oct-01	7.94	2.33	4.73			20	8.78
295	22-Oct-01	7.63	4.37	5.92			20	8.58
296	23-Oct-01	6.55	3.59	5.12			20	8.20

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
297	24-Oct-01	5.93	2.17	3.34			20	7.72
298	25-Oct-01	5.78	2.17	3.51			20	7.50
299	26-Oct-01	6.24	1.70	3.35			20	7.01
300	27-Oct-01	6.86	1.54	3.84			20	6.70
301	28-Oct-01	8.10	5.78	6.59			21	6.73
302	29-Oct-01	8.41	5.93	6.98			20	6.84
303	30-Oct-01	8.10	6.24	7.07			20	7.06
304	31-Oct-01	7.48	6.09	6.75			20	7.28
305	1-Nov-01	6.71	5.31	6.06			20	7.41
306	2-Nov-01	7.17	5.31	6.09			20	7.55
307	3-Nov-01	5.93	3.91	5.07			20	7.41
308	4-Nov-01	5.16	2.96	3.66			20	6.99
309	5-Nov-01	5.47	2.17	3.46			20	6.57
310	6-Nov-01	5.62	2.02	3.64			20	6.22
311	7-Nov-01	4.22	1.54	2.78			20	5.75
312	8-Nov-01	2.81	0.10	1.05			20	5.20
313	9-Nov-01	2.49	0.10	0.76			20	4.53
314	10-Nov-01	2.81	0.10	0.85			20	4.08
315	11-Nov-01	2.96	0.10	1.12			20	3.77
316	12-Nov-01	4.37	1.22	2.38			20	3.61
317	13-Nov-01	5.00	1.86	3.19			20	3.52
318	14-Nov-01	5.78	3.12	4.15			20	3.75
319	15-Nov-01	5.16	2.49	3.67			20	4.08
320	16-Nov-01	4.69	2.02	3.09			20	4.40
321	17-Nov-01	4.69	2.49	3.52			20	4.66
322	18-Nov-01	5.47	3.28	4.41			20	5.02
323	19-Nov-01	4.53	2.33	3.32			20	5.05
324	20-Nov-01	5.62	2.81	4.04			20	5.13
325	21-Nov-01	5.31	3.91	4.55			20	5.07
326	22-Nov-01	4.22	1.70	3.19			20	4.93
327	23-Nov-01	3.75	2.02	3.02			20	4.80
328	24-Nov-01	1.70	0.74	1.26			20	4.37
329	25-Nov-01	3.12	0.74	1.59			20	4.04
330	26-Nov-01	2.17	0.10	0.84			20	3.70
331	27-Nov-01	0.58	0.10	0.16			20	2.98
332	28-Nov-01	0.26	0.10	0.12			20	2.26
333	29-Nov-01	0.26	0.10	0.12			20	1.69
334	30-Nov-01	0.26	0.10	0.14			20	1.19
335	1-Dec-01	0.26	0.10	0.14			20	0.99
336	2-Dec-01	0.26	0.10	0.14			20	0.58
337	3-Dec-01	1.22	0.10	0.44			20	0.44
338	4-Dec-01	0.74	0.10	0.18			20	0.47
339	5-Dec-01	0.10	0.10	0.10			20	0.44
340	6-Dec-01	0.10	0.10	0.10			20	0.42
341	7-Dec-01	0.10	0.10	0.10			20	0.40
342	8-Dec-01	0.10	0.10	0.10			20	0.37
343	9-Dec-01	0.26	0.10	0.14			20	0.37
344	10-Dec-01	0.10	0.10	0.10			20	0.21
345	11-Dec-01	0.26	0.10	0.13			20	0.15
346	12-Dec-01	0.26	0.10	0.11			20	0.17
347	13-Dec-01	0.26	0.10	0.14			20	0.19

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Indian Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1403 M
Waterbody ID Number: 6

Import File : ... way\Selway 2001\Temp\Indian Creek 2001.txt
Calibration Factor : 0

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msr mts per day	7-Day Average of High
348	14-Dec-01	0.26	0.10	0.24			20	0.21
349	15-Dec-01	0.10	0.10	0.10			20	0.21
350	16-Dec-01	0.26	0.10	0.16			20	0.21
351	17-Dec-01	0.26	0.10	0.24			20	0.24
352	18-Dec-01	0.26	0.10	0.11			20	0.24
353	19-Dec-01	0.26	0.10	0.20			20	0.24
354	20-Dec-01	0.26	0.10	0.22			20	0.24
355	21-Dec-01	0.26	0.10	0.16			20	0.24
356	22-Dec-01	0.10	0.10	0.10			20	0.24
357	23-Dec-01	0.26	0.10	0.23			20	0.24
358	24-Dec-01	0.26	0.10	0.20			20	0.24
359	25-Dec-01	0.26	0.10	0.12			20	0.24
360	26-Dec-01	0.26	0.10	0.20			20	0.24
361	27-Dec-01	0.10	0.10	0.10			20	0.21
362	28-Dec-01	0.10	0.10	0.10			20	0.19
363	29-Dec-01	0.10	0.10	0.10			20	0.19
364	30-Dec-01	0.10	0.10	0.10			20	0.17
365	31-Dec-01	0.10	0.10	0.10			20	0.15

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.00	0.00	0.00			20	
2	2-Jan-01	0.00	0.00	0.00			20	
3	3-Jan-01	0.00	0.00	0.00			20	
4	4-Jan-01	0.00	0.00	0.00			20	
5	5-Jan-01	0.00	0.00	0.00			20	
6	6-Jan-01	0.00	0.00	0.00			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.00
8	8-Jan-01	0.00	0.00	0.00			20	0.00
9	9-Jan-01	0.00	0.00	0.00			20	0.00
10	10-Jan-01	0.00	0.00	0.00			20	0.00
11	11-Jan-01	0.00	0.00	0.00			20	0.00
12	12-Jan-01	0.00	0.00	0.00			20	0.00
13	13-Jan-01	0.00	0.00	0.00			20	0.00
14	14-Jan-01	0.00	0.00	0.00			20	0.00
15	15-Jan-01	0.00	0.00	0.00			20	0.00
16	16-Jan-01	0.00	0.00	0.00			20	0.00
17	17-Jan-01	0.00	0.00	0.00			20	0.00
18	18-Jan-01	0.00	0.00	0.00			20	0.00
19	19-Jan-01	0.00	0.00	0.00			20	0.00
20	20-Jan-01	0.00	0.00	0.00			20	0.00
21	21-Jan-01	0.00	0.00	0.00			20	0.00
22	22-Jan-01	0.00	0.00	0.00			20	0.00
23	23-Jan-01	0.00	0.00	0.00			20	0.00
24	24-Jan-01	0.00	0.00	0.00			20	0.00
25	25-Jan-01	0.00	0.00	0.00			20	0.00
26	26-Jan-01	0.00	0.00	0.00			20	0.00
27	27-Jan-01	0.00	0.00	0.00			20	0.00
28	28-Jan-01	0.00	0.00	0.00			20	0.00
29	29-Jan-01	0.00	0.00	0.00			20	0.00
30	30-Jan-01	0.00	0.00	0.00			20	0.00
31	31-Jan-01	0.00	0.00	0.00			20	0.00
32	1-Feb-01	0.00	0.00	0.00			20	0.00
33	2-Feb-01	0.00	0.00	0.00			20	0.00
34	3-Feb-01	0.00	0.00	0.00			20	0.00
35	4-Feb-01	0.00	0.00	0.00			20	0.00
36	5-Feb-01	0.00	0.00	0.00			20	0.00
37	6-Feb-01	0.00	0.00	0.00			20	0.00
38	7-Feb-01	0.00	0.00	0.00			20	0.00
39	8-Feb-01	0.00	0.00	0.00			20	0.00
40	9-Feb-01	0.00	0.00	0.00			20	0.00
41	10-Feb-01	0.00	0.00	0.00			20	0.00
42	11-Feb-01	0.00	0.00	0.00			20	0.00
43	12-Feb-01	0.00	0.00	0.00			20	0.00
44	13-Feb-01	0.00	0.00	0.00			20	0.00
45	14-Feb-01	0.00	0.00	0.00			20	0.00
46	15-Feb-01	0.00	0.00	0.00			20	0.00
47	16-Feb-01	0.00	0.00	0.00			20	0.00

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	7	8%	
19 °C Average	28	30%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	50	54%	
9 °C Average Spring	76	83%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	47	51%	
9 °C Average Fall	55	59%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	97	52%	
9 °C Average Total *	131	71%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	0	0%	
Juvenile Days Eval'd w/in Dates	0	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	0	0%	
Spawning Days Eval'd w/in Dates	0	1-Sep	31-Oct

NOTES

Comments: Combined data from two deployments. Stream is *a priori* natural. Monitored as state Outstanding Resource Water nominee. Temperature exceeds Idaho's cold water aquatic life daily maximum criterion less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	0.00	0.00	0.00			20	0.00
49	18-Feb-01	0.00	0.00	0.00			20	0.00
50	19-Feb-01	0.00	0.00	0.00			20	0.00
51	20-Feb-01	0.00	0.00	0.00			20	0.00
52	21-Feb-01	0.00	0.00	0.00			20	0.00
53	22-Feb-01	0.00	0.00	0.00			20	0.00
54	23-Feb-01	0.00	0.00	0.00			20	0.00
55	24-Feb-01	0.00	0.00	0.00			20	0.00
56	25-Feb-01	0.00	0.00	0.00			20	0.00
57	26-Feb-01	0.00	0.00	0.00			20	0.00
58	27-Feb-01	0.00	0.00	0.00			20	0.00
59	28-Feb-01	0.00	0.00	0.00			20	0.00
60	1-Mar-01	0.00	0.00	0.00			20	0.00
61	2-Mar-01	0.00	0.00	0.00			20	0.00
62	3-Mar-01	0.17	0.00	0.07			20	0.02
63	4-Mar-01	0.33	0.00	0.13			20	0.07
64	5-Mar-01	0.97	0.17	0.47			20	0.21
65	6-Mar-01	1.92	0.17	0.93			20	0.48
66	7-Mar-01	2.24	0.17	1.13			20	0.80
67	8-Mar-01	2.71	0.65	1.67			20	1.19
68	9-Mar-01	3.34	2.55	2.91			20	1.67
69	10-Mar-01	5.05	3.03	3.75			20	2.37
70	11-Mar-01	4.28	3.34	3.77			20	2.93
71	12-Mar-01	4.74	3.34	3.98			20	3.47
72	13-Mar-01	5.05	3.34	4.27			20	3.92
73	14-Mar-01	4.90	3.65	4.12			20	4.30
74	15-Mar-01	3.65	2.08	2.95			20	4.43
75	16-Mar-01	4.12	2.39	3.21			20	4.54
76	17-Mar-01	4.59	2.24	3.45			20	4.48
77	18-Mar-01	5.21	3.49	4.38			20	4.61
78	19-Mar-01	6.45	4.90	5.59			20	4.85
79	20-Mar-01	7.85	5.52	6.59			20	5.25
80	21-Mar-01	7.85	5.05	6.55			20	5.67
81	22-Mar-01	7.54	4.74	6.32			20	6.23
82	23-Mar-01	7.69	5.05	6.46			20	6.74
83	24-Mar-01	8.00	5.68	6.94			20	7.23
84	25-Mar-01	7.38	6.30	6.89			20	7.54
85	26-Mar-01	6.92	5.83	6.39			20	7.60
86	27-Mar-01	6.30	3.97	5.31			20	7.38
87	28-Mar-01	7.85	5.05	6.22			20	7.38
88	29-Mar-01	9.23	6.14	7.54			20	7.62
89	30-Mar-01	9.08	6.77	7.81			20	7.82
90	31-Mar-01	7.85	5.68	6.68			20	7.80
91	1-Apr-01	8.15	5.52	6.79			19	7.91
92	2-Apr-01	7.54	5.83	6.52			20	8.00
93	3-Apr-01	6.14	3.34	4.92			20	7.98
94	4-Apr-01	7.69	4.28	5.81			20	7.95
95	5-Apr-01	7.85	4.12	5.92			20	7.76
96	6-Apr-01	7.08	5.52	6.28			20	7.47
97	7-Apr-01	6.30	4.90	5.45			20	7.25

STATISTICS	
Maximum Daily Maximum (MDM)	22.7 ºC
Maximum 7-Day Maximum (MWM)	21.7 ºC
Maximum Daily Average (MDA)	20.6 ºC
Maximum 7-Day Average (MWA)	20.0 ºC
Mean Daily Maximum	9.2 ºC
Mean Daily Average	8.3 ºC
Mean Daily Minimum	7.4 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	8.3 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	122	100%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	5.05	3.97	4.48			20	6.81
99	9-Apr-01	5.99	3.34	4.56			20	6.59
100	10-Apr-01	6.45	3.97	5.25			20	6.63
101	11-Apr-01	5.83	4.74	5.30			20	6.36
102	12-Apr-01	5.83	4.74	5.26			20	6.08
103	13-Apr-01	5.99	4.59	5.33			20	5.92
104	14-Apr-01	8.00	4.43	5.97			20	6.16
105	15-Apr-01	8.92	5.37	7.13			20	6.72
106	16-Apr-01	10.17	6.45	8.22			20	7.31
107	17-Apr-01	11.40	7.38	9.34			20	8.02
108	18-Apr-01	11.25	8.46	9.98			20	8.79
109	19-Apr-01	10.17	8.15	9.11			20	9.41
110	20-Apr-01	8.77	7.38	8.00			20	9.81
111	21-Apr-01	8.46	6.30	7.38			20	9.88
112	22-Apr-01	8.62	5.83	7.22			20	9.83
113	23-Apr-01	9.08	7.08	7.92			20	9.68
114	24-Apr-01	11.55	6.92	9.00			20	9.70
115	25-Apr-01	13.26	8.92	10.92			20	9.99
116	26-Apr-01	12.95	10.17	11.64			20	10.38
117	27-Apr-01	12.18	10.32	11.21			20	10.87
118	28-Apr-01	10.48	8.62	9.34			20	11.16
119	29-Apr-01	8.46	6.14	7.46			20	11.14
120	30-Apr-01	7.85	7.38	7.60			20	10.96
121	1-May-01	7.85	6.30	7.05			20	10.43
122	2-May-01	7.08	5.05	6.24			20	9.55
123	3-May-01	8.77	5.05	6.67			20	8.95
124	4-May-01	10.94	7.23	8.82			20	8.78
125	5-May-01	12.02	9.85	10.68			20	9.00
126	6-May-01	10.63	8.31	9.50			20	9.31
127	7-May-01	10.63	7.85	9.24			20	9.70
128	8-May-01	10.79	9.38	10.19			20	10.12
129	9-May-01	10.63	9.23	10.11			20	10.63
130	10-May-01	10.79	8.15	9.58			20	10.92
131	11-May-01	11.25	8.77	10.11			20	10.96
132	12-May-01	11.87	9.54	10.71			20	10.94
133	13-May-01	12.02	10.63	11.51			20	11.14
134	14-May-01	11.71	9.23	10.44			20	11.29
135	15-May-01	10.32	8.31	9.09			20	11.23
136	16-May-01	9.54	7.38	8.37			20	11.07
137	17-May-01	9.38	6.92	8.39			20	10.87
138	18-May-01	11.25	8.46	9.73			20	10.87
139	19-May-01	10.79	8.92	10.04			20	10.72
140	20-May-01	10.94	8.77	10.02			20	10.56
141	21-May-01	10.94	8.00	9.66			20	10.45
142	22-May-01	12.80	9.54	11.11			20	10.81
143	23-May-01	13.87	10.94	12.48			20	11.42
144	24-May-01	13.87	11.55	12.96			20	12.07
145	25-May-01	13.72	11.87	12.98			20	12.42
146	26-May-01	13.57	11.71	12.78			20	12.82

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
147	27-May-01	13.10	11.55	12.57			20	13.12
148	28-May-01	13.57	10.94	12.43			20	13.50
149	29-May-01	13.57	11.09	12.58			20	13.61
150	30-May-01	13.10	10.63	12.05			20	13.50
151	31-May-01	14.81	11.87	13.20			20	13.63
152	1-Jun-01	15.13	12.95	14.16			20	13.84
153	2-Jun-01	15.29	13.72	14.39			20	14.08
154	3-Jun-01	14.03	10.32	12.16			20	14.21
155	4-Jun-01	10.17	8.62	9.12			20	13.73
156	5-Jun-01	8.62	7.54	8.14			20	13.02
157	6-Jun-01	12.02	8.62	9.85			20	12.87
158	7-Jun-01	13.26	10.32	11.57			20	12.65
159	8-Jun-01	15.45	11.71	13.33			20	12.69
160	9-Jun-01	16.55	13.57	14.75			20	12.87
161	10-Jun-01	16.24	13.26	14.73			20	13.19
162	11-Jun-01	15.29	13.57	14.43			20	13.92
163	12-Jun-01	13.87	10.63	12.18			20	14.67
164	13-Jun-01	11.09	8.92	9.90			20	14.54
165	14-Jun-01	12.02	9.23	10.56			20	14.36
166	15-Jun-01	14.81	10.32	12.28			20	14.27
167	16-Jun-01	16.08	12.02	13.89			20	14.20
168	17-Jun-01	16.87	13.26	14.95			20	14.29
169	18-Jun-01	16.55	12.80	14.56			20	14.47
170	19-Jun-01	16.71	12.49	14.54			20	14.88
171	20-Jun-01	18.31	13.57	15.68			20	15.91
172	21-Jun-01	19.60	15.13	17.23			20	16.99
173	22-Jun-01	20.25	16.08	18.13			20	17.77
174	23-Jun-01	19.44	16.71	18.16			20	18.25
175	24-Jun-01	19.60	15.92	17.61			20	18.64
176	25-Jun-01	17.99	15.13	16.63			20	18.84
177	26-Jun-01	19.44	15.29	17.05			20	19.23
178	27-Jun-01	17.83	16.08	17.02			20	19.16
179	28-Jun-01	19.77	15.77	17.50			20	19.19
180	29-Jun-01	20.74	16.39	18.43			20	19.26
181	30-Jun-01	19.93	16.87	18.43			20	19.33
182	1-Jul-01	21.24	16.71	18.82			20	19.56
183	2-Jul-01	22.24	17.67	19.83			20	20.17
184	3-Jul-01	22.74	18.31	20.51			20	20.64
185	4-Jul-01	21.74	19.28	20.54			20	21.20
186	5-Jul-01	21.57	19.28	20.59			20	21.46
187	6-Jul-01	21.90	18.80	20.43			20	21.62
188	7-Jul-01	20.58	18.47	19.32			20	21.72
189	8-Jul-01	19.60	17.67	18.64			20	21.48
190	9-Jul-01	19.12	17.99	18.69			20	21.04
191	10-Jul-01	20.25	16.87	18.48			20	20.68
192	11-Jul-01	21.40	17.99	19.55			20	20.63
193	12-Jul-01	22.24	18.63	20.30			20	20.73
194	13-Jul-01	21.40	18.80	20.22			20	20.66
195	14-Jul-01	21.57	18.31	20.04			20	20.80

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
196	15-Jul-01	20.25	17.83	18.68			20	20.89
197	16-Jul-01	18.63	16.87	17.75			20	20.82
198	17-Jul-01	17.19	15.77	16.57			20	20.38
199	18-Jul-01	17.67	14.81	16.06			20	19.85
200	19-Jul-01	19.12	14.81	16.86			20	19.40
201	20-Jul-01	18.96	15.92	17.55			20	19.06
202	21-Jul-01	20.41	16.24	18.25			20	18.89
203	22-Jul-01	20.58	16.55	18.63			20	18.94
204	23-Jul-01	21.40	17.50	19.37			20	19.33
205	24-Jul-01	21.90	17.99	19.94			20	20.01
206	25-Jul-01	22.24	18.15	20.10			20	20.66
207	26-Jul-01	22.24	18.31	20.22			20	21.10
208	27-Jul-01	21.24	17.67	19.59			20	21.43
209	28-Jul-01	20.41	17.34	18.92			20	21.43
210	29-Jul-01	19.28	16.08	17.66			20	21.24
211	30-Jul-01	18.31	16.08	17.12			20	20.80
212	31-Jul-01	17.83	14.49	16.05			20	20.22
213	1-Aug-01	18.96	14.49	16.66			20	19.75
214	2-Aug-01	20.74	15.92	18.12			20	19.54
215	3-Aug-01	20.09	17.34	18.79			20	19.37
216	4-Aug-01	20.74	17.67	19.10			20	19.42
217	5-Aug-01	21.40	16.87	18.89			20	19.72
218	6-Aug-01	22.07	17.50	19.80			20	20.26
219	7-Aug-01	21.40	18.63	20.22			20	20.77
220	8-Aug-01	22.57	18.15	20.10			20	21.29
221	9-Aug-01	21.07	18.47	20.00			20	21.33
222	10-Aug-01	21.57	17.83	19.61			20	21.55
223	11-Aug-01	21.40	18.31	20.00			20	21.64
224	12-Aug-01	20.74	17.67	19.42			20	21.55
225	13-Aug-01	20.58	17.83	19.34			20	21.33
226	14-Aug-01	20.41	17.50	18.99			20	21.19
227	15-Aug-01	20.58	17.83	19.26			20	20.91
228	16-Aug-01	21.24	17.67	19.53			20	20.93
229	17-Aug-01	21.57	17.83	19.67			20	20.93
230	18-Aug-01	21.07	17.83	19.56			20	20.88
231	19-Aug-01	20.74	17.34	18.97			20	20.88
232	20-Aug-01	19.93	16.24	18.15			20	20.79
233	21-Aug-01	19.93	16.08	17.93			20	20.72
234	22-Aug-01	18.96	16.08	17.79			20	20.49
235	23-Aug-01	19.28	15.77	17.53			20	20.21
236	24-Aug-01	19.60	15.45	17.36			20	19.93
237	25-Aug-01	19.93	15.92	17.96			20	19.77
238	26-Aug-01	20.25	16.39	18.37			20	19.70
239	27-Aug-01	20.25	17.19	18.86			20	19.74
240	28-Aug-01	19.60	16.87	18.23			20	19.70
241	29-Aug-01	19.93	16.24	17.94			20	19.83
242	30-Aug-01	19.12	16.39	17.97			20	19.81
243	31-Aug-01	18.63	16.39	17.67			20	19.67
244	1-Sep-01	18.31	16.08	17.24			20	19.44

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
245	2-Sep-01	18.63	15.45	17.01			20	19.21
246	3-Sep-01	18.63	15.45	17.18			20	18.98
247	4-Sep-01	17.83	15.77	16.94			20	18.73
248	5-Sep-01	17.99	15.45	16.69			20	18.45
249	6-Sep-01	16.55	13.57	14.53			20	18.08
250	7-Sep-01	13.72	11.55	12.61			20	17.38
251	8-Sep-01	14.18	10.79	12.42			20	16.79
252	9-Sep-01	14.81	11.25	13.06			20	16.24
253	10-Sep-01	15.77	12.33	14.04			20	15.84
254	11-Sep-01	16.55	13.42	15.01			20	15.65
255	12-Sep-01	16.39	14.49	15.49			20	15.42
256	13-Sep-01	18.47	15.29	16.53			20	15.70
257	14-Sep-01	18.47	15.77	17.06			20	16.38
258	15-Sep-01	17.99	15.29	16.84			20	16.92
259	16-Sep-01	17.03	14.97	16.00			20	17.24
260	17-Sep-01	16.24	14.03	15.06			20	17.31
261	18-Sep-01	16.38	13.57	14.99			20	17.28
262	19-Sep-01	15.43	13.24	14.48			20	17.14
263	20-Sep-01	14.48	12.00	13.40			20	16.57
264	21-Sep-01	14.02	11.54	12.99			20	15.94
265	22-Sep-01	14.02	11.39	12.89			20	15.37
266	23-Sep-01	14.48	11.85	13.29			20	15.01
267	24-Sep-01	14.95	12.47	13.77			20	14.82
268	25-Sep-01	14.64	12.63	13.64			20	14.57
269	26-Sep-01	14.33	12.16	13.30			20	14.42
270	27-Sep-01	14.02	11.70	13.11			20	14.35
271	28-Sep-01	14.17	12.47	13.38			20	14.37
272	29-Sep-01	14.17	12.00	13.23			20	14.39
273	30-Sep-01	13.24	10.77	12.19			20	14.22
274	1-Oct-01	12.78	10.62	11.92			20	13.91
275	2-Oct-01	12.63	10.62	11.81			20	13.62
276	3-Oct-01	12.16	10.30	11.42			20	13.31
277	4-Oct-01	11.85	9.99	11.04			20	13.00
278	5-Oct-01	10.93	8.60	9.71			20	12.54
279	6-Oct-01	9.83	7.99	9.05			20	11.92
280	7-Oct-01	9.68	8.60	9.21			20	11.41
281	8-Oct-01	10.15	9.21	9.65			20	11.03
282	9-Oct-01	10.15	8.29	8.97			20	10.68
283	10-Oct-01	8.14	6.28	7.18			20	10.10
284	11-Oct-01	7.99	6.90	7.45			20	9.55
285	12-Oct-01	7.68	5.97	6.56			20	9.09
286	13-Oct-01	8.29	6.43	7.19			20	8.87
287	14-Oct-01	8.90	7.68	8.25			20	8.76
288	15-Oct-01	8.60	7.05	7.86			20	8.54
289	16-Oct-01	8.14	6.59	7.47			20	8.25
290	17-Oct-01	8.60	7.68	8.06			20	8.31
291	18-Oct-01	7.99	5.97	6.88			20	8.31
292	19-Oct-01	7.99	6.59	7.16			20	8.36
293	20-Oct-01	8.29	7.21	7.68			20	8.36

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
294	21-Oct-01	7.99	5.97	6.85			20	8.23
295	22-Oct-01	7.21	6.59	6.84			20	8.03
296	23-Oct-01	7.21	6.28	6.71			20	7.90
297	24-Oct-01	5.97	4.09	4.84			20	7.52
298	25-Oct-01	4.72	3.63	4.20			20	7.05
299	26-Oct-01	4.57	3.31	4.10			20	6.57
300	27-Oct-01	5.34	3.31	4.19			20	6.14
301	28-Oct-01	7.05	5.50	6.22			21	6.01
302	29-Oct-01	8.14	7.05	7.57			20	6.14
303	30-Oct-01	8.45	7.68	8.07			20	6.32
304	31-Oct-01	8.29	7.52	7.83			20	6.65
305	1-Nov-01	7.52	6.74	6.93			20	7.05
306	2-Nov-01	6.90	6.43	6.67			20	7.38
307	3-Nov-01	6.59	5.81	6.18			20	7.56
308	4-Nov-01	5.97	4.57	5.13			20	7.41
309	5-Nov-01	4.88	3.63	4.23			20	6.94
310	6-Nov-01	4.25	3.15	3.74			20	6.34
311	7-Nov-01	4.09	3.31	3.68			20	5.74
312	8-Nov-01	3.31	1.58	2.21			20	5.14
313	9-Nov-01	1.73	0.45	0.98			20	4.40
314	10-Nov-01	0.78	-0.03	0.39			20	3.57
315	11-Nov-01	0.78	-0.03	0.41			20	2.83
316	12-Nov-01	1.89	0.78	1.19			20	2.40
317	13-Nov-01	3.15	1.73	2.25			20	2.25
318	14-Nov-01	4.40	3.00	3.73			20	2.29
319	15-Nov-01	4.25	3.47	3.91			20	2.43
320	16-Nov-01	3.94	3.31	3.71			20	2.74
321	17-Nov-01	3.78	3.31	3.56			20	3.17
322	18-Nov-01	4.88	3.78	4.31			20	3.76
323	19-Nov-01	4.72	4.25	4.42			20	4.16
324	20-Nov-01	4.25	3.47	3.82			20	4.32
325	21-Nov-01	5.19	4.40	4.79			20	4.43
326	22-Nov-01	5.03	4.57	4.80			20	4.54
327	23-Nov-01	4.57	3.31	3.86			20	4.63
328	24-Nov-01	3.15	1.73	2.24			20	4.54
329	25-Nov-01	1.58	0.94	1.23			20	4.07
330	26-Nov-01	1.25	0.78	1.04			20	3.57
331	27-Nov-01	0.94	-0.03	0.58			20	3.10
332	28-Nov-01	-0.03	-0.03	-0.03			20	2.36
333	29-Nov-01	-0.03	-0.03	-0.03			20	1.63
334	30-Nov-01	0.13	-0.03	-0.02			20	1.00
335	1-Dec-01	0.29	-0.03	0.02			20	0.59
336	2-Dec-01	-0.03	-0.03	-0.03			20	0.36
337	3-Dec-01	0.13	-0.03	0.02			20	0.20
338	4-Dec-01	-0.03	-0.03	-0.03			20	0.06
339	5-Dec-01	-0.03	-0.03	-0.03			20	0.06
340	6-Dec-01	-0.03	-0.03	-0.03			20	0.06
341	7-Dec-01	-0.03	-0.03	-0.03			20	0.04
342	8-Dec-01	-0.03	-0.03	-0.03			20	-0.01
343	9-Dec-01	-0.03	-0.03	-0.03			20	-0.01
344	10-Dec-01	-0.03	-0.03	-0.03			20	-0.03

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon River abv Camas Cr.
Data Collection Site: right bank
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060206
HUC4 Name: Lower Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1163 M
Waterbody ID Number: 1

Import File : ... 2001\Temp\MF Salmon abv Camas Cr 2001.txt
Calibration Factor : 0.09

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
345	11-Dec-01	-0.03	-0.03	-0.03			20	-0.03
346	12-Dec-01	-0.03	-0.03	-0.03			20	-0.03
347	13-Dec-01	-0.03	-0.03	-0.03			20	-0.03
348	14-Dec-01	-0.03	-0.03	-0.03			20	-0.03
349	15-Dec-01	-0.03	-0.03	-0.03			20	-0.03
350	16-Dec-01	-0.03	-0.03	-0.03			20	-0.03
351	17-Dec-01	-0.03	-0.03	-0.03			20	-0.03
352	18-Dec-01	-0.03	-0.03	-0.03			20	-0.03
353	19-Dec-01	-0.03	-0.03	-0.03			20	-0.03
354	20-Dec-01	-0.03	-0.03	-0.03			20	-0.03
355	21-Dec-01	-0.03	-0.03	-0.03			20	-0.03
356	22-Dec-01	-0.03	-0.03	-0.03			20	-0.03
357	23-Dec-01	-0.03	-0.03	-0.03			20	-0.03
358	24-Dec-01	-0.03	-0.03	-0.03			20	-0.03
359	25-Dec-01	-0.03	-0.03	-0.03			20	-0.03
360	26-Dec-01	-0.03	-0.03	-0.03			20	-0.03
361	27-Dec-01	-0.03	-0.03	-0.03			20	-0.03
362	28-Dec-01	-0.03	-0.03	-0.03			20	-0.03
363	29-Dec-01	-0.03	-0.03	-0.03			20	-0.03
364	30-Dec-01	-0.03	-0.03	-0.03			20	-0.03
365	31-Dec-01	-0.03	-0.03	-0.03			20	-0.03

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-02	0.02	0.00	0.00			20	
2	2-Jan-02	0.02	0.00	0.00			20	
3	3-Jan-02	0.02	0.00	0.00			20	
4	4-Jan-02	0.02	0.00	0.00			20	
5	5-Jan-02	0.16	0.00	0.10			20	
6	6-Jan-02	0.02	0.00	0.00			20	
7	7-Jan-02	0.02	0.00	0.00			20	0.04
8	8-Jan-02	0.16	0.00	0.03			20	0.06
9	9-Jan-02	0.16	0.00	0.02			20	0.08
10	10-Jan-02	0.02	0.00	0.00			20	0.08
11	11-Jan-02	0.02	0.00	0.00			20	0.08
12	12-Jan-02	0.02	0.00	0.00			20	0.06
13	13-Jan-02	0.16	0.00	0.02			20	0.08
14	14-Jan-02	0.02	0.00	0.00			20	0.08
15	15-Jan-02	0.02	0.00	0.00			20	0.06
16	16-Jan-02	0.02	0.00	0.00			20	0.04
17	17-Jan-02	0.02	0.00	0.00			20	0.04
18	18-Jan-02	0.02	0.00	0.00			20	0.04
19	19-Jan-02	0.02	0.00	0.00			20	0.04
20	20-Jan-02	0.02	0.00	0.00			20	0.02
21	21-Jan-02	0.02	0.00	0.00			20	0.02
22	22-Jan-02	0.02	0.00	0.00			20	0.02
23	23-Jan-02	0.02	0.00	0.00			20	0.02
24	24-Jan-02	0.02	0.00	0.00			20	0.02
25	25-Jan-02	0.02	0.00	0.00			20	0.02
26	26-Jan-02	0.02	0.00	0.00			20	0.02
27	27-Jan-02	0.02	0.00	0.00			20	0.02
28	28-Jan-02	0.02	0.00	0.00			20	0.02
29	29-Jan-02	0.02	0.00	0.00			20	0.02
30	30-Jan-02	0.02	0.00	0.00			20	0.02
31	31-Jan-02	0.02	0.00	0.00			20	0.02
32	1-Feb-02	0.02	0.00	0.00			20	0.02
33	2-Feb-02	0.02	0.00	0.00			20	0.02
34	3-Feb-02	0.02	0.00	0.00			20	0.02
35	4-Feb-02	0.02	0.00	0.00			20	0.02
36	5-Feb-02	0.02	0.00	0.00			20	0.02
37	6-Feb-02	0.02	0.00	0.00			20	0.02
38	7-Feb-02	0.02	0.00	0.00			20	0.02
39	8-Feb-02	0.02	0.00	0.00			20	0.02
40	9-Feb-02	0.02	0.00	0.00			20	0.02
41	10-Feb-02	0.02	0.00	0.00			20	0.02
42	11-Feb-02	0.02	0.00	0.00			20	0.02
43	12-Feb-02	0.02	0.00	0.00			20	0.02
44	13-Feb-02	0.02	0.00	0.00			20	0.02
45	14-Feb-02	0.02	0.00	0.00			20	0.02
46	15-Feb-02	0.02	0.00	0.00			20	0.02
47	16-Feb-02	0.02	0.00	0.00			20	0.02

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	0	0%	
19 °C Average	4	4%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	24	26%	
9 °C Average Spring	48	52%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	50	54%	
9 °C Average Fall	53	57%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	74	40%	
9 °C Average Total *	101	55%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	0	0%	
Juvenile Days Eval'd w/in Dates	0	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	0	0%	
Spawning Days Eval'd w/in Dates	0	1-Sep	31-Oct

NOTES

Comments: Data from one deployment wrapped so that fall 2001 data follows summer 2002 data. Stream is *a priori* natural. Monitored as state Outstanding Resource Water nominee. Temperature exceeds Idaho' cold water aquatic life criteria less than 10% of c

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-02	0.02	0.00	0.00			20	0.02
49	18-Feb-02	0.02	0.00	0.00			20	0.02
50	19-Feb-02	0.02	0.00	0.00			20	0.02
51	20-Feb-02	0.16	0.00	0.02			20	0.04
52	21-Feb-02	0.02	0.00	0.00			20	0.04
53	22-Feb-02	0.16	0.00	0.02			20	0.06
54	23-Feb-02	0.02	0.00	0.00			20	0.06
55	24-Feb-02	0.16	0.00	0.01			20	0.08
56	25-Feb-02	0.16	0.00	0.03			20	0.10
57	26-Feb-02	0.16	0.00	0.02			20	0.12
58	27-Feb-02	0.16	0.00	0.04			20	0.12
59	28-Feb-02	0.16	0.00	0.01			20	0.14
60	1-Mar-02	0.16	0.00	0.02			20	0.14
61	2-Mar-02	0.16	0.00	0.02			20	0.16
62	3-Mar-02	0.16	0.00	0.02			20	0.16
63	4-Mar-02	0.16	0.00	0.01			20	0.16
64	5-Mar-02	0.16	0.00	0.04			20	0.16
65	6-Mar-02	0.16	0.00	0.04			20	0.16
66	7-Mar-02	0.16	0.00	0.05			20	0.16
67	8-Mar-02	0.16	0.00	0.03			20	0.16
68	9-Mar-02	0.16	0.00	0.05			20	0.16
69	10-Mar-02	0.16	0.00	0.05			20	0.16
70	11-Mar-02	0.16	0.00	0.03			20	0.16
71	12-Mar-02	0.16	0.00	0.04			20	0.16
72	13-Mar-02	0.32	0.00	0.10			20	0.18
73	14-Mar-02	0.80	0.16	0.32			20	0.27
74	15-Mar-02	1.44	0.16	0.81			20	0.46
75	16-Mar-02	1.91	0.48	1.05			20	0.71
76	17-Mar-02	0.96	0.00	0.44			20	0.82
77	18-Mar-02	1.59	0.00	0.76			20	1.03
78	19-Mar-02	2.38	0.48	1.51			20	1.34
79	20-Mar-02	3.96	1.75	2.79			20	1.86
80	21-Mar-02	5.99	2.38	4.09			20	2.60
81	22-Mar-02	6.30	3.33	4.88			20	3.30
82	23-Mar-02	6.30	3.80	4.99			20	3.93
83	24-Mar-02	5.99	3.96	4.99			20	4.64
84	25-Mar-02	8.00	4.27	5.88			20	5.56
85	26-Mar-02	6.45	4.43	5.49			20	6.14
86	27-Mar-02	7.54	4.11	5.62			20	6.65
87	28-Mar-02	7.69	4.43	5.77			20	6.90
88	29-Mar-02	7.08	3.49	5.16			20	7.01
89	30-Mar-02	9.08	4.43	6.59			20	7.40
90	31-Mar-02	8.76	5.36	6.96			20	7.80
91	1-Apr-02	8.61	4.90	6.66			20	7.89
92	2-Apr-02	7.23	4.74	6.08			20	8.00
93	3-Apr-02	8.46	4.58	6.35			20	8.13
94	4-Apr-02	8.15	4.74	6.38			20	8.20
95	5-Apr-02	6.92	5.05	6.19			20	8.17
96	6-Apr-02	8.30	5.83	6.97			20	8.06
97	7-Apr-02	7.23	5.21	5.90			19	7.84

STATISTICS	
Maximum Daily Maximum (MDM)	21.7 ºC
Maximum 7-Day Maximum (MWM)	20.5 ºC
Maximum Daily Average (MDA)	20.1 ºC
Maximum 7-Day Average (MWA)	19.2 ºC
Mean Daily Maximum	8.0 ºC
Mean Daily Average	7.1 ºC
Mean Daily Minimum	6.4 ºC
Minimum 7-Day Minimum	-0.1 ºC
Minimum Daily Minimum	-0.7 ºC
Mean of all Data	7.1 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	115	94%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-02	6.92	4.11	5.50			20	7.60
99	9-Apr-02	6.76	5.68	6.07			20	7.53
100	10-Apr-02	6.76	5.52	6.03			20	7.29
101	11-Apr-02	6.30	5.05	5.57			20	7.03
102	12-Apr-02	7.84	5.36	6.35			20	7.16
103	13-Apr-02	7.69	6.45	6.97			20	7.07
104	14-Apr-02	7.54	6.30	6.88			20	7.12
105	15-Apr-02	6.45	3.65	4.44			20	7.05
106	16-Apr-02	5.05	3.18	4.11			20	6.80
107	17-Apr-02	4.90	3.18	3.89			20	6.54
108	18-Apr-02	5.36	3.49	4.27			20	6.40
109	19-Apr-02	7.08	4.11	5.41			20	6.30
110	20-Apr-02	7.23	4.58	6.02			20	6.23
111	21-Apr-02	6.92	5.21	6.27			20	6.14
112	22-Apr-02	8.92	5.68	7.08			20	6.49
113	23-Apr-02	8.61	6.76	7.70			20	7.00
114	24-Apr-02	7.08	4.27	5.94			20	7.31
115	25-Apr-02	8.00	4.90	6.57			20	7.69
116	26-Apr-02	8.00	6.30	7.32			20	7.82
117	27-Apr-02	8.76	6.30	7.47			20	8.04
118	28-Apr-02	8.15	5.68	6.99			20	8.22
119	29-Apr-02	8.92	5.36	7.26			20	8.22
120	30-Apr-02	8.92	7.08	8.19			20	8.26
121	1-May-02	9.23	6.45	7.91			20	8.57
122	2-May-02	8.92	6.14	7.83			20	8.70
123	3-May-02	8.92	6.61	7.82			20	8.83
124	4-May-02	8.46	5.21	7.02			20	8.79
125	5-May-02	8.15	5.99	6.73			20	8.79
126	6-May-02	7.84	4.90	6.27			20	8.63
127	7-May-02	7.69	4.90	6.13			20	8.46
128	8-May-02	5.83	3.18	4.49			20	7.97
129	9-May-02	5.68	3.49	4.65			20	7.51
130	10-May-02	7.08	4.58	5.77			20	7.25
131	11-May-02	9.23	5.52	7.35			20	7.36
132	12-May-02	10.63	6.76	8.83			20	7.71
133	13-May-02	10.47	7.69	9.34			20	8.09
134	14-May-02	11.09	8.15	9.75			20	8.57
135	15-May-02	10.16	6.92	8.02			20	9.19
136	16-May-02	9.08	5.83	7.35			20	9.68
137	17-May-02	9.54	6.92	8.14			20	10.03
138	18-May-02	10.63	7.23	8.87			20	10.23
139	19-May-02	10.47	8.30	9.34			20	10.21
140	20-May-02	9.85	7.54	8.24			20	10.12
141	21-May-02	7.54	6.14	6.64			20	9.61
142	22-May-02	5.99	5.21	5.62			20	9.01
143	23-May-02	6.45	5.52	5.90			20	8.64
144	24-May-02	8.46	5.52	6.61			20	8.48
145	25-May-02	9.08	7.23	8.13			20	8.26
146	26-May-02	9.85	8.46	9.13			20	8.17
147	27-May-02	10.00	8.30	9.12			20	8.20
148	28-May-02	10.47	8.76	9.63			20	8.61

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	Bull juvnl	Excd S-spawn	J	Nbr of Msrmts per day	7-Day Average of High
149	29-May-02	10.94	8.92	9.87				20	9.32
150	30-May-02	10.94	8.76	9.41				20	9.96
151	31-May-02	10.31	8.30	9.09				20	10.23
152	1-Jun-02	10.31	9.08	9.45				20	10.40
153	2-Jun-02	8.92	8.15	8.54				20	10.27
154	3-Jun-02	9.69	7.84	8.59				20	10.23
155	4-Jun-02	9.39	8.76	9.11				20	10.07
156	5-Jun-02	10.31	8.46	9.18				20	9.98
157	6-Jun-02	10.94	9.08	10.01				20	9.98
158	7-Jun-02	10.78	9.23	9.96				20	10.05
159	8-Jun-02	10.16	8.15	8.94				20	10.03
160	9-Jun-02	8.00	6.45	7.20				20	9.90
161	10-Jun-02	7.84	6.14	6.78				20	9.63
162	11-Jun-02	9.69	7.08	8.12				20	9.67
163	12-Jun-02	10.78	8.30	9.43				20	9.74
164	13-Jun-02	12.02	9.23	10.46				20	9.90
165	14-Jun-02	12.64	10.63	11.69				20	10.16
166	15-Jun-02	12.64	11.24	12.05				20	10.52
167	16-Jun-02	13.25	11.24	12.22				20	11.27
168	17-Jun-02	13.25	11.55	12.31				20	12.04
169	18-Jun-02	12.48	11.09	11.54				20	12.44
170	19-Jun-02	11.40	8.61	10.00				20	12.53
171	20-Jun-02	12.64	9.69	11.09				20	12.61
172	21-Jun-02	12.64	11.24	12.13				20	12.61
173	22-Jun-02	12.48	11.24	11.90				20	12.59
174	23-Jun-02	12.95	11.24	12.15				20	12.55
175	24-Jun-02	14.64	11.86	13.05				20	12.75
176	25-Jun-02	15.59	13.10	14.28				20	13.19
177	26-Jun-02	15.75	14.02	14.88				20	13.81
178	27-Jun-02	15.91	13.71	14.85				20	14.28
179	28-Jun-02	16.06	14.49	15.39				20	14.77
180	29-Jun-02	16.06	14.18	15.05				20	15.28
181	30-Jun-02	15.43	13.10	14.35				20	15.63
182	1-Jul-02	15.59	13.71	14.78				20	15.77
183	2-Jul-02	15.75	13.56	14.74				20	15.79
184	3-Jul-02	16.38	14.33	15.34				20	15.88
185	4-Jul-02	17.18	15.28	16.21				20	16.06
186	5-Jul-02	16.86	14.80	16.00				20	16.18
187	6-Jul-02	17.02	15.59	16.38				20	16.32
188	7-Jul-02	17.81	16.54	17.10				20	16.66
189	8-Jul-02	17.98	16.23	17.10				20	17.00
190	9-Jul-02	17.65	15.28	16.63				20	17.27
191	10-Jul-02	18.78	16.23	17.37				20	17.61
192	11-Jul-02	20.08	17.34	18.58				20	18.03
193	12-Jul-02	21.05	18.14	19.41				20	18.62
194	13-Jul-02	20.73	18.62	19.63				20	19.15
195	14-Jul-02	21.71	18.94	20.08				20	19.71
196	15-Jul-02	20.40	18.78	19.67				20	20.06
197	16-Jul-02	19.26	17.65	18.39				20	20.29

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-02	19.91	17.02	18.36			20	20.45
199	18-Jul-02	19.59	18.14	18.75			20	20.38
200	19-Jul-02	18.62	17.34	17.99			20	20.03
201	20-Jul-02	19.26	16.54	17.79			20	19.82
202	21-Jul-02	19.59	17.34	18.40			20	19.52
203	22-Jul-02	18.94	17.34	18.00			20	19.31
204	23-Jul-02	19.26	16.54	17.74			20	19.31
205	24-Jul-02	19.43	17.50	18.56			20	19.24
206	25-Jul-02	18.94	17.18	18.11			20	19.15
207	26-Jul-02	19.10	16.86	17.98			20	19.22
208	27-Jul-02	18.62	17.02	17.91			20	19.13
209	28-Jul-02	18.78	16.06	17.39			20	19.01
210	29-Jul-02	19.26	16.70	17.88			20	19.06
211	30-Jul-02	18.94	17.02	17.99			20	19.01
212	31-Jul-02	18.78	16.70	17.81			20	18.92
213	1-Aug-02	18.30	15.75	17.13			20	18.83
214	2-Aug-02	18.14	16.06	17.08			20	18.69
215	3-Aug-02	17.50	15.59	16.69			20	18.53
216	4-Aug-02	17.81	15.91	16.92			20	18.39
217	5-Aug-02	18.30	16.38	17.28			20	18.25
218	6-Aug-02	18.14	15.91	17.07			20	18.14
219	7-Aug-02	17.18	15.75	16.46			20	17.91
220	8-Aug-02	16.23	14.18	15.28			20	17.61
221	9-Aug-02	16.86	13.41	15.11			20	17.43
222	10-Aug-02	17.65	14.49	15.93			20	17.45
223	11-Aug-02	17.98	15.28	16.57			20	17.48
224	12-Aug-02	18.30	15.28	16.71			20	17.48
225	13-Aug-02	18.78	15.43	16.99			20	17.57
226	14-Aug-02	18.78	15.75	17.25			20	17.80
227	15-Aug-02	18.94	15.91	17.43			20	18.18
228	16-Aug-02	18.94	16.06	17.51			20	18.48
229	17-Aug-02	17.98	15.28	16.73			20	18.53
230	18-Aug-02	17.81	14.64	16.23			20	18.50
231	19-Aug-02	17.50	14.64	16.17			20	18.39
232	20-Aug-02	16.70	15.11	15.83			20	18.09
233	21-Aug-02	15.75	14.64	15.24			20	17.66
234	22-Aug-02	15.91	12.95	14.37			20	17.23
235	23-Aug-02	15.59	13.10	14.38			20	16.75
236	24-Aug-02	15.28	13.10	14.25			20	16.36
237	25-Aug-02	16.38	13.10	14.56			20	16.16
238	26-Aug-02	15.43	13.56	14.41			20	15.86
239	27-Aug-02	14.96	13.10	13.96			20	15.61
240	28-Aug-02	15.75	13.56	14.64			20	15.61
241	29-Aug-02	14.96	13.41	14.27			20	15.48
242	30-Aug-02	14.80	13.10	13.98			20	15.37
243	31-Aug-02	16.70	13.56	14.83			20	15.57
244	1-Sep-02	16.38	14.18	15.30			20	15.57
245	2-Sep-02	17.50	14.18	15.67			20	15.86
246	3-Sep-02	16.86	14.96	16.08			20	16.14

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-02	16.86	14.64	15.88			20	16.29
248	5-Sep-02	16.70	14.49	15.66			20	16.54
249	6-Sep-02	15.91	14.33	14.86			20	16.70
250	7-Sep-02	14.64	12.95	13.53			20	16.41
251	8-Sep-02	14.33	11.09	12.57			20	16.11
252	9-Sep-02	14.18	10.63	12.45			20	15.64
253	10-Sep-02	14.80	10.94	12.80			20	15.35
254	11-Sep-02	15.59	11.86	13.60			20	15.16
255	12-Sep-02	16.06	12.64	14.32			20	15.07
256	13-Sep-02	16.06	12.79	14.44			20	15.09
257	14-Sep-02	15.59	12.48	14.19			20	15.23
258	15-Sep-02	15.28	13.10	14.27			20	15.37
259	16-Sep-02	14.96	12.79	13.97			20	15.48
260	17-Sep-02	16.86	13.25	14.90			20	15.77
261	18-Sep-02	16.70	13.10	14.86			20	15.93
262	19-Sep-02	15.75	12.48	14.14			20	15.89
263	20-Sep-02	15.11	11.09	13.15			20	15.75
264	21-Sep-02	14.49	10.78	12.74			20	15.59
265	22-Sep-02	15.11	10.63	12.74			20	15.57
266	23-Sep-02	15.59	10.94	13.17			20	15.66
267	24-Sep-02	16.06	11.55	13.64			20	15.54
268	25-Sep-02	15.11	11.71	13.41			20	15.32
269	26-Sep-02	15.11	11.24	13.11			20	15.23
270	27-Sep-02	14.96	10.94	12.92			20	15.20
271	28-Sep-02	14.64	11.71	13.13			20	15.23
272	29-Sep-02	14.96	11.09	12.93			20	15.20
273	30-Sep-02	13.87	9.85	11.92			20	14.96
274	1-Oct-02	13.87	9.69	11.76			20	14.65
275	2-Oct-02	13.25	9.69	11.50			20	14.38
276	3-Oct-02	13.10	9.39	11.22			20	14.09
277	4-Oct-02	12.48	9.08	10.79			20	13.74
278	5-Oct-02	11.09	7.84	9.54			20	13.23
279	6-Oct-02	10.78	6.92	8.87			20	12.63
280	7-Oct-02	9.85	7.69	8.96			20	12.06
281	8-Oct-02	10.94	8.61	9.55			20	11.64
282	9-Oct-02	9.39	7.69	8.48			20	11.09
283	10-Oct-02	7.84	5.36	6.73			20	10.34
284	11-Oct-02	8.61	6.45	7.20			20	9.79
285	12-Oct-02	6.76	5.21	6.09			20	9.17
286	13-Oct-02	8.76	5.68	6.92			20	8.88
287	14-Oct-02	8.76	7.08	7.86			20	8.72
288	15-Oct-02	9.08	6.76	7.71			20	8.46
289	16-Oct-02	8.46	5.83	7.23			20	8.32
290	17-Oct-02	9.23	7.38	8.04			20	8.52
291	18-Oct-02	7.54	5.36	6.45			20	8.37
292	19-Oct-02	7.54	5.83	6.75			20	8.48
293	20-Oct-02	8.92	6.45	7.62			20	8.50
294	21-Oct-02	7.38	5.05	6.37			20	8.31
295	22-Oct-02	7.08	5.99	6.58			20	8.02

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
296	23-Oct-02	7.08	5.36	6.40			20	7.82
297	24-Oct-02	5.05	3.49	4.19			20	7.23
298	25-Oct-02	5.05	3.18	3.95			20	6.87
299	26-Oct-02	5.05	2.86	3.85			20	6.52
300	27-Oct-02	5.36	2.70	4.03			20	6.01
301	28-Oct-02	7.08	5.21	6.11			21	5.96
302	29-Oct-02	8.15	6.92	7.44			20	6.12
303	30-Oct-02	8.30	7.38	7.77			20	6.29
304	31-Oct-02	7.84	7.23	7.47			20	6.69
305	1-Nov-02	7.08	6.14	6.51			20	6.98
306	2-Nov-02	6.92	5.99	6.35			20	7.25
307	3-Nov-02	6.61	5.21	5.93			20	7.43
308	4-Nov-02	5.36	4.27	4.84			20	7.18
309	5-Nov-02	4.74	3.49	3.98			20	6.69
310	6-Nov-02	4.27	2.86	3.58			20	6.12
311	7-Nov-02	3.80	2.70	3.32			20	5.54
312	8-Nov-02	2.54	1.28	1.73			20	4.89
313	9-Nov-02	1.12	0.00	0.62			20	4.06
314	10-Nov-02	0.64	0.00	0.22			20	3.21
315	11-Nov-02	0.80	0.00	0.29			20	2.56
316	12-Nov-02	1.91	0.48	1.12			20	2.15
317	13-Nov-02	3.18	1.44	2.26			20	2.00
318	14-Nov-02	4.74	3.01	3.74			20	2.13
319	15-Nov-02	4.43	3.18	3.79			20	2.40
320	16-Nov-02	3.96	3.01	3.53			20	2.81
321	17-Nov-02	3.65	2.70	3.28			20	3.24
322	18-Nov-02	5.21	3.65	4.30			20	3.87
323	19-Nov-02	4.43	3.49	4.12			20	4.23
324	20-Nov-02	4.27	3.01	3.56			20	4.38
325	21-Nov-02	5.05	4.27	4.64			20	4.43
326	22-Nov-02	4.90	4.11	4.43			20	4.50
327	23-Nov-02	3.96	2.86	3.42			20	4.50
328	24-Nov-02	2.70	1.12	1.71			20	4.36
329	25-Nov-02	1.28	0.32	0.80			20	3.80
330	26-Nov-02	1.28	0.48	0.78			20	3.35
331	27-Nov-02	0.64	0.00	0.18			20	2.83
332	28-Nov-02	0.16	-0.65	-0.05			20	2.13
333	29-Nov-02	0.16	0.00	0.15			20	1.45
334	30-Nov-02	0.02	0.00	0.00			20	0.89
335	1-Dec-02	0.16	0.00	0.04			20	0.53
336	2-Dec-02	0.16	0.00	0.09			20	0.37
337	3-Dec-02	0.16	0.16	0.16			20	0.21
338	4-Dec-02	0.16	0.00	0.14			20	0.14
339	5-Dec-02	0.16	0.16	0.16			20	0.14
340	6-Dec-02	0.16	0.16	0.16			20	0.14
341	7-Dec-02	0.32	0.16	0.17			20	0.18
342	8-Dec-02	0.32	0.16	0.21			20	0.21
343	9-Dec-02	0.16	0.16	0.16			20	0.21
344	10-Dec-02	0.16	0.16	0.16			20	0.21
345	11-Dec-02	0.32	0.16	0.21			20	0.23
346	12-Dec-02	0.32	0.16	0.23			20	0.25

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: MF Salmon R. abv Loon Creek
Data Collection Site: right bank
Data Period: 1/1/02 - 12/31/02

HUC4 Number: 17060205
HUC4 Name: Upper Middle Fork Salmon
South of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 1228 M
Waterbody ID Number: 1

Import File : ... way\Selway 2001\Temp\Big Creek 2001-00.txt
Calibration Factor : -0.02

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
347	13-Dec-02	0.32	0.16	0.21			20	0.27
348	14-Dec-02	0.32	0.16	0.18			20	0.27
349	15-Dec-02	0.32	0.16	0.22			20	0.27
350	16-Dec-02	0.48	0.16	0.32			20	0.32
351	17-Dec-02	0.32	0.16	0.20			20	0.34
352	18-Dec-02	0.32	0.16	0.18			20	0.34
353	19-Dec-02	0.16	0.16	0.16			20	0.32
354	20-Dec-02	0.16	0.16	0.16			20	0.30
355	21-Dec-02	0.16	0.16	0.16			20	0.27
356	22-Dec-02	0.32	0.00	0.15			20	0.27
357	23-Dec-02	0.32	0.00	0.21			20	0.25
358	24-Dec-02	0.32	-0.16	0.15			20	0.25
359	25-Dec-02	0.32	0.00	0.14			20	0.25
360	26-Dec-02	0.02	0.00	0.00			20	0.23
361	27-Dec-02	0.02	0.00	0.00			20	0.21
362	28-Dec-02	0.02	0.00	0.00			20	0.19
363	29-Dec-02	0.02	0.00	0.00			20	0.15
364	30-Dec-02	0.02	0.00	0.00			20	0.11
365	31-Dec-02	0.02	0.00	0.00			20	0.06

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	2.08	0.80	1.18			20	
2	2-Jan-01	1.60	0.48	1.02			20	
3	3-Jan-01	1.12	0.00	0.41			20	
4	4-Jan-01	1.28	0.16	0.63			20	
5	5-Jan-01	2.08	0.48	1.01			20	
6	6-Jan-01	1.75	0.48	1.02			20	
7	7-Jan-01	0.32	0.00	0.03			20	1.46
8	8-Jan-01	0.16	0.00	0.10			20	1.19
9	9-Jan-01	0.16	0.16	0.16			20	0.98
10	10-Jan-01	0.32	0.16	0.22			20	0.87
11	11-Jan-01	0.48	0.16	0.25			20	0.75
12	12-Jan-01	0.32	0.16	0.22			20	0.50
13	13-Jan-01	0.80	0.16	0.36			20	0.37
14	14-Jan-01	1.12	0.16	0.53			20	0.48
15	15-Jan-01	1.75	0.32	0.70			20	0.71
16	16-Jan-01	1.12	0.16	0.55			20	0.84
17	17-Jan-01	1.28	0.00	0.40			20	0.98
18	18-Jan-01	0.32	0.00	0.15			20	0.96
19	19-Jan-01	0.80	0.16	0.38			20	1.03
20	20-Jan-01	1.92	0.48	0.86			20	1.19
21	21-Jan-01	1.75	0.16	0.78			20	1.28
22	22-Jan-01	2.55	0.80	1.34			20	1.39
23	23-Jan-01	2.39	0.48	1.31			20	1.57
24	24-Jan-01	0.64	0.00	0.29			20	1.48
25	25-Jan-01	1.28	0.16	0.58			20	1.62
26	26-Jan-01	2.39	0.48	1.09			20	1.85
27	27-Jan-01	1.75	0.00	0.60			20	1.82
28	28-Jan-01	0.96	0.00	0.22			20	1.71
29	29-Jan-01	0.16	0.00	0.09			20	1.37
30	30-Jan-01	0.32	0.16	0.19			20	1.07
31	31-Jan-01	0.48	0.16	0.29			20	1.05
32	1-Feb-01	1.44	0.32	0.65			20	1.07
33	2-Feb-01	0.64	0.00	0.29			20	0.82
34	3-Feb-01	2.23	0.32	0.93			20	0.89
35	4-Feb-01	0.80	0.00	0.58			20	0.87
36	5-Feb-01	1.92	0.00	0.81			20	1.12
37	6-Feb-01	2.23	0.48	1.15			20	1.39
38	7-Feb-01	1.28	0.16	0.54			20	1.51
39	8-Feb-01	0.48	0.00	0.14			20	1.37
40	9-Feb-01	0.48	0.00	0.15			20	1.35
41	10-Feb-01	0.64	0.16	0.31			20	1.12
42	11-Feb-01	1.92	0.16	0.62			20	1.28
43	12-Feb-01	2.08	0.16	0.66			20	1.30
44	13-Feb-01	2.39	0.32	1.09			20	1.32
45	14-Feb-01	1.44	0.16	0.69			20	1.35
46	15-Feb-01	1.28	0.00	0.50			20	1.46
47	16-Feb-01	2.39	0.16	1.15			20	1.73

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	28	30%	
19 °C Average	15	16%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	27	29%	
9 °C Average Spring	38	41%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	50	54%	
9 °C Average Fall	52	56%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	77	42%	
9 °C Average Total *	90	49%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	72	78%	
Juvenile Days Eval'd w/in Dates	92	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	35	57%	
Spawning Days Eval'd w/in Dates	61	1-Sep	31-Oct

NOTES

Comments: Combined data from two deployments. Stream is a priori natural. Monitored as state Outstanding Resource Water nominee.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	3.81	1.28	2.14			20	2.19
49	18-Feb-01	3.65	1.44	2.28			20	2.43
50	19-Feb-01	4.74	1.60	2.54			20	2.81
51	20-Feb-01	3.81	0.16	1.72			20	3.02
52	21-Feb-01	3.18	1.75	2.33			20	3.27
53	22-Feb-01	4.28	1.92	2.74			20	3.69
54	23-Feb-01	3.34	1.75	2.38			20	3.83
55	24-Feb-01	4.12	1.44	2.52			20	3.87
56	25-Feb-01	4.28	0.48	2.07			20	3.96
57	26-Feb-01	4.28	0.16	1.94			20	3.90
58	27-Feb-01	3.50	0.00	1.21			20	3.85
59	28-Feb-01	2.71	0.00	0.60			20	3.79
60	1-Mar-01	1.60	0.00	0.42			20	3.40
61	2-Mar-01	2.71	0.16	1.13			20	3.31
62	3-Mar-01	4.90	0.32	1.96			20	3.43
63	4-Mar-01	3.97	0.48	2.09			20	3.38
64	5-Mar-01	3.97	1.60	2.57			20	3.34
65	6-Mar-01	5.68	0.48	2.56			20	3.65
66	7-Mar-01	5.37	0.16	2.28			20	4.03
67	8-Mar-01	4.74	0.16	2.19			20	4.48
68	9-Mar-01	3.03	1.92	2.41			20	4.52
69	10-Mar-01	4.12	1.92	2.83			20	4.41
70	11-Mar-01	3.03	1.92	2.50			20	4.28
71	12-Mar-01	4.12	2.08	2.83			20	4.30
72	13-Mar-01	5.52	2.23	3.54			20	4.28
73	14-Mar-01	3.97	2.08	2.99			20	4.08
74	15-Mar-01	5.05	1.75	3.14			20	4.12
75	16-Mar-01	5.83	2.39	3.72			20	4.52
76	17-Mar-01	4.90	1.92	3.33			20	4.63
77	18-Mar-01	6.14	2.87	4.24			20	5.08
78	19-Mar-01	4.28	2.39	3.57			20	5.10
79	20-Mar-01	6.30	1.75	3.27			20	5.21
80	21-Mar-01	6.14	1.12	3.12			20	5.52
81	22-Mar-01	6.30	0.96	3.14			20	5.70
82	23-Mar-01	6.46	1.28	3.46			20	5.79
83	24-Mar-01	5.83	2.08	3.87			20	5.92
84	25-Mar-01	3.65	2.39	3.01			20	5.57
85	26-Mar-01	4.28	2.71	3.43			20	5.57
86	27-Mar-01	6.14	2.55	3.92			20	5.54
87	28-Mar-01	5.37	3.34	4.28			20	5.43
88	29-Mar-01	6.30	3.50	4.64			20	5.43
89	30-Mar-01	5.99	3.65	4.66			20	5.37
90	31-Mar-01	4.28	2.71	3.63			20	5.14
91	1-Apr-01	6.62	2.87	4.45			19	5.57
92	2-Apr-01	5.05	3.65	4.21			20	5.68
93	3-Apr-01	7.39	2.71	4.53			20	5.86
94	4-Apr-01	7.54	3.34	4.96			20	6.17
95	5-Apr-01	7.70	2.23	4.52			20	6.37
96	6-Apr-01	5.83	3.03	4.44			20	6.34
97	7-Apr-01	5.99	3.97	4.83			20	6.59

STATISTICS	
Maximum Daily Maximum (MDM)	25.0 ºC
Maximum 7-Day Maximum (MWM)	24.2 ºC
Maximum Daily Average (MDA)	21.2 ºC
Maximum 7-Day Average (MWA)	20.4 ºC
Mean Daily Maximum	9.4 ºC
Mean Daily Average	7.5 ºC
Mean Daily Minimum	6.0 ºC
Minimum 7-Day Minimum	-0.1 ºC
Minimum Daily Minimum	-0.1 ºC
Mean of all Data	7.5 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	115	94%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	5.52	3.03	4.16			20	6.43
99	9-Apr-01	4.90	2.87	3.96			20	6.41
100	10-Apr-01	5.83	3.03	4.33			20	6.19
101	11-Apr-01	6.30	3.34	4.60			20	6.01
102	12-Apr-01	6.46	3.97	4.85			20	5.83
103	13-Apr-01	6.30	3.50	4.75			20	5.90
104	14-Apr-01	6.93	3.03	4.72			20	6.03
105	15-Apr-01	8.77	2.55	5.30			20	6.50
106	16-Apr-01	9.24	3.18	5.95			20	7.12
107	17-Apr-01	8.77	4.43	6.67			20	7.54
108	18-Apr-01	8.47	5.37	6.91			20	7.85
109	19-Apr-01	7.39	5.05	6.22			20	7.98
110	20-Apr-01	6.30	3.65	4.98			20	7.98
111	21-Apr-01	6.77	4.12	5.42			20	7.96
112	22-Apr-01	8.32	4.12	5.86			20	7.89
113	23-Apr-01	7.54	5.37	6.37			20	7.65
114	24-Apr-01	10.48	5.52	7.44			20	7.90
115	25-Apr-01	9.85	4.59	7.10			20	8.09
116	26-Apr-01	8.47	4.59	6.50			20	8.25
117	27-Apr-01	6.77	4.28	5.71			20	8.31
118	28-Apr-01	5.68	3.97	4.94			20	8.16
119	29-Apr-01	5.83	3.81	4.93			20	7.80
120	30-Apr-01	5.52	4.74	5.01			20	7.51
121	1-May-01	4.74	3.65	4.18			20	6.69
122	2-May-01	5.52	3.18	4.25			20	6.08
123	3-May-01	7.24	3.18	5.11			20	5.90
124	4-May-01	8.47	4.28	6.28			20	6.14
125	5-May-01	7.54	5.52	6.33			20	6.41
126	6-May-01	7.39	3.18	5.26			20	6.63
127	7-May-01	8.16	3.65	5.91			20	7.01
128	8-May-01	8.00	4.74	6.57			20	7.47
129	9-May-01	8.32	5.05	6.68			20	7.87
130	10-May-01	8.47	4.74	6.61			20	8.05
131	11-May-01	8.32	4.43	6.42			20	8.03
132	12-May-01	8.32	4.74	6.52			20	8.14
133	13-May-01	7.39	5.37	6.09			20	8.14
134	14-May-01	7.08	4.90	5.95			20	7.99
135	15-May-01	6.62	4.74	5.66			20	7.79
136	16-May-01	6.46	5.21	5.77			20	7.52
137	17-May-01	7.54	3.65	5.55			20	7.39
138	18-May-01	7.08	5.52	6.18			20	7.21
139	19-May-01	8.62	4.43	6.44			20	7.26
140	20-May-01	8.00	5.52	6.78			20	7.34
141	21-May-01	8.77	4.12	6.42			20	7.58
142	22-May-01	10.17	5.21	7.57			20	8.09
143	23-May-01	10.64	5.68	8.01			20	8.69
144	24-May-01	10.94	6.14	8.25			20	9.17
145	25-May-01	10.94	6.77	8.57			20	9.73
146	26-May-01	10.64	6.62	8.47			20	10.01
147	27-May-01	10.48	6.77	8.59			20	10.37
148	28-May-01	10.94	7.39	9.07			20	10.68

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
149	29-May-01	10.02	6.93	8.41			20	10.66
150	30-May-01	9.39	5.05	7.25			20	10.48
151	31-May-01	11.56	7.54	9.31			20	10.57
152	1-Jun-01	11.87	7.85	9.82			20	10.70
153	2-Jun-01	11.56	8.62	9.63			20	10.83
154	3-Jun-01	8.32	6.62	7.39			20	10.52
155	4-Jun-01	6.62	3.50	4.83			20	9.91
156	5-Jun-01	7.24	4.90	5.97			20	9.51
157	6-Jun-01	9.24	6.30	7.65			20	9.49
158	7-Jun-01	8.62	6.46	7.61			20	9.07
159	8-Jun-01	10.94	7.08	8.89			20	8.93
160	9-Jun-01	12.03	9.54	10.88			20	9.00
161	10-Jun-01	11.25	9.54	10.15			20	9.42
162	11-Jun-01	10.94	8.16	9.52			20	10.04
163	12-Jun-01	9.70	6.62	8.14			20	10.39
164	13-Jun-01	6.62	5.52	6.08			20	10.01
165	14-Jun-01	9.24	6.30	7.62			20	10.10
166	15-Jun-01	11.40	7.85	9.51			20	10.17
167	16-Jun-01	12.18	7.54	9.88			20	10.19
168	17-Jun-01	12.18	9.24	10.77			20	10.32
169	18-Jun-01	12.49	8.77	10.49			20	10.54
170	19-Jun-01	13.12	8.00	10.42			20	11.03
171	20-Jun-01	14.50	9.54	11.84			20	12.16
172	21-Jun-01	16.24	10.94	13.37	J		20	13.16
173	22-Jun-01	17.35	12.34	14.65	J		20	14.01
174	23-Jun-01	17.52	13.27	15.21	J		20	14.77
175	24-Jun-01	16.88	13.27	14.73	J		20	15.44
176	25-Jun-01	16.40	11.87	13.86	J		20	16.00
177	26-Jun-01	16.56	12.49	14.43	J		20	16.49
178	27-Jun-01	16.72	13.42	14.95	J		20	16.81
179	28-Jun-01	18.32	13.42	15.48	J		20	17.11
180	29-Jun-01	19.45	13.42	15.98	J		20	17.41
181	30-Jun-01	18.32	14.04	16.14	J		20	17.52
182	1-Jul-01	20.75	14.35	17.17	J		20	18.07
183	2-Jul-01	21.08	14.66	17.67	J		20	18.74
184	3-Jul-01	21.58	14.66	17.87	J		20	19.46
185	4-Jul-01	20.10	15.93	17.89	J		20	19.94
186	5-Jul-01	18.64	16.88	17.50	J		20	19.99
187	6-Jul-01	21.42	14.82	17.57	J		20	20.27
188	7-Jul-01	20.42	14.19	17.30	J		20	20.57
189	8-Jul-01	21.75	15.61	18.40	J		20	20.71
190	9-Jul-01	21.92	17.19	19.36	J		20	20.83
191	10-Jul-01	23.43	17.03	19.95	J		20	21.10
192	11-Jul-01	21.25	16.40	18.94	J		20	21.26
193	12-Jul-01	22.08	16.56	18.98	J		20	21.75
194	13-Jul-01	19.78	15.77	17.76	J		20	21.52
195	14-Jul-01	22.75	14.82	18.31	J		20	21.85
196	15-Jul-01	19.94	16.56	18.33	J		20	21.59
197	16-Jul-01	17.68	15.29	16.04	J		20	20.99

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	17.35	12.96	14.98	J		20	20.12
199	18-Jul-01	17.68	12.96	15.10	J		20	19.61
200	19-Jul-01	21.25	13.73	16.75	J		20	19.49
201	20-Jul-01	19.13	14.82	16.96	J		20	19.40
202	21-Jul-01	20.59	15.14	17.40	J		20	19.09
203	22-Jul-01	21.42	14.82	17.86	J		20	19.30
204	23-Jul-01	22.08	14.35	17.89	J		20	19.93
205	24-Jul-01	22.42	14.66	18.35	J		20	20.65
206	25-Jul-01	22.92	15.14	18.73	J		20	21.40
207	26-Jul-01	22.75	14.98	18.68	J		20	21.62
208	27-Jul-01	23.08	14.66	18.82	J		20	22.18
209	28-Jul-01	20.42	15.93	18.26	J		20	22.16
210	29-Jul-01	17.84	14.19	16.20	J		20	21.64
211	30-Jul-01	15.93	13.88	14.94	J		20	20.77
212	31-Jul-01	17.03	13.27	14.62	J		20	20.00
213	1-Aug-01	19.62	11.72	15.25	J		20	19.52
214	2-Aug-01	22.25	13.88	17.74	J		20	19.45
215	3-Aug-01	22.42	15.45	18.87	J		20	19.36
216	4-Aug-01	19.94	16.24	18.20	J		20	19.29
217	5-Aug-01	23.25	14.50	18.41	J		20	20.06
218	6-Aug-01	24.46	15.77	19.87	J		20	21.28
219	7-Aug-01	24.98	17.35	20.93	J		20	22.42
220	8-Aug-01	24.80	17.84	21.19	J		20	23.16
221	9-Aug-01	24.29	16.72	20.42	J		20	23.45
222	10-Aug-01	23.59	16.40	19.95	J		20	23.62
223	11-Aug-01	22.92	15.61	19.28	J		20	24.04
224	12-Aug-01	24.12	15.61	19.61	J		20	24.17
225	13-Aug-01	24.12	18.16	21.08	J		20	24.12
226	14-Aug-01	24.29	17.19	20.67	J		20	24.02
227	15-Aug-01	24.12	16.56	20.17	J		20	23.92
228	16-Aug-01	23.94	16.24	19.90	J		20	23.87
229	17-Aug-01	23.77	15.77	19.66	J		20	23.90
230	18-Aug-01	23.08	16.72	20.00	J		20	23.92
231	19-Aug-01	22.08	15.29	18.66	J		20	23.63
232	20-Aug-01	21.75	13.73	17.70	J		20	23.29
233	21-Aug-01	21.58	13.88	17.71	J		20	22.90
234	22-Aug-01	19.78	14.19	17.37	J		20	22.28
235	23-Aug-01	20.92	14.50	17.41	J		20	21.85
236	24-Aug-01	21.75	16.24	18.48	J		20	21.56
237	25-Aug-01	21.75	13.27	17.43	J		20	21.37
238	26-Aug-01	22.58	13.58	17.86	J		20	21.44
239	27-Aug-01	22.42	14.50	18.32	J		20	21.54
240	28-Aug-01	21.08	14.98	18.25	J		20	21.47
241	29-Aug-01	22.08	13.58	17.59	J		20	21.80
242	30-Aug-01	21.92	13.88	17.72	J		20	21.94
243	31-Aug-01	20.26	14.35	17.39	J		20	21.73
244	1-Sep-01	21.08	14.04	17.36		S	20	21.63
245	2-Sep-01	21.28	11.60	16.99		S	21	21.45
246	3-Sep-01	21.45	14.23	17.70		S	20	21.31

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	20.30	13.92	17.28		S	20	21.20
248	5-Sep-01	18.84	15.02	16.58		S	20	20.73
249	6-Sep-01	18.03	13.15	15.32		S	20	20.18
250	7-Sep-01	15.33	12.53	13.82		S	20	19.47
251	8-Sep-01	16.59	9.12	12.57		S	20	18.83
252	9-Sep-01	17.23	9.12	12.86		S	20	18.25
253	10-Sep-01	18.03	10.05	13.80		S	20	17.76
254	11-Sep-01	18.68	10.98	14.64		S	20	17.53
255	12-Sep-01	18.68	11.75	15.00		S	20	17.51
256	13-Sep-01	18.84	13.46	15.97		S	20	17.63
257	14-Sep-01	20.63	13.77	16.77		S	20	18.38
258	15-Sep-01	19.49	12.53	15.95		S	20	18.80
259	16-Sep-01	18.68	12.07	15.32		S	20	19.00
260	17-Sep-01	18.19	12.84	15.45		S	20	19.03
261	18-Sep-01	18.68	12.07	14.98		S	20	19.03
262	19-Sep-01	16.44	10.98	13.83		S	20	18.71
263	20-Sep-01	16.28	9.28	12.62		S	20	18.34
264	21-Sep-01	14.85	9.43	12.21		S	20	17.52
265	22-Sep-01	16.28	8.97	12.26		S	20	17.06
266	23-Sep-01	16.75	9.74	13.02		S	20	16.78
267	24-Sep-01	17.07	10.52	13.46		S	20	16.62
268	25-Sep-01	14.70	10.37	12.92		S	20	16.05
269	26-Sep-01	16.28	12.07	13.79		S	20	16.03
270	27-Sep-01	14.54	10.83	13.00		S	20	15.78
271	28-Sep-01	14.85	11.60	13.16		S	20	15.78
272	29-Sep-01	16.13	10.37	12.88		S	20	15.76
273	30-Sep-01	14.85	8.82	11.82		S	20	15.49
274	1-Oct-01	14.70	8.66	11.55		S	20	15.15
275	2-Oct-01	13.61	8.82	11.27		S	20	14.99
276	3-Oct-01	13.30	8.04	10.59		S	20	14.57
277	4-Oct-01	12.07	6.97	9.48		S	20	14.22
278	5-Oct-01	10.98	5.41	8.11			20	13.66
279	6-Oct-01	10.21	4.79	7.44			20	12.82
280	7-Oct-01	9.28	6.03	7.94			20	12.02
281	8-Oct-01	10.83	8.50	9.39		S	20	11.47
282	9-Oct-01	9.58	8.04	8.91			20	10.89
283	10-Oct-01	10.52	6.81	8.49			20	10.50
284	11-Oct-01	9.58	7.74	8.42			20	10.14
285	12-Oct-01	7.43	6.50	7.06			20	9.63
286	13-Oct-01	8.50	6.34	7.19			20	9.39
287	14-Oct-01	8.04	6.81	7.36			20	9.21
288	15-Oct-01	9.89	6.50	7.72			20	9.08
289	16-Oct-01	8.97	4.79	6.70			20	8.99
290	17-Oct-01	10.05	6.65	7.90			20	8.92
291	18-Oct-01	7.58	5.25	6.50			20	8.64
292	19-Oct-01	7.12	6.19	6.67			20	8.59
293	20-Oct-01	9.58	6.81	7.63			20	8.75
294	21-Oct-01	7.43	4.79	6.20			20	8.66
295	22-Oct-01	7.74	6.65	7.05			20	8.35

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
296	23-Oct-01	7.12	5.25	6.09			20	8.09
297	24-Oct-01	7.27	4.47	5.32			20	7.69
298	25-Oct-01	5.57	3.69	4.56			20	7.40
299	26-Oct-01	6.81	3.85	4.86			20	7.36
300	27-Oct-01	5.25	3.38	4.23			20	6.74
301	28-Oct-01	5.72	4.94	5.32			21	6.50
302	29-Oct-01	6.65	5.25	5.90			20	6.34
303	30-Oct-01	6.97	6.34	6.61			20	6.32
304	31-Oct-01	6.97	6.50	6.71			20	6.28
305	1-Nov-01	6.81	5.88	6.30			20	6.45
306	2-Nov-01	6.97	5.88	6.39			20	6.48
307	3-Nov-01	7.89	5.88	6.71			20	6.85
308	4-Nov-01	6.50	4.63	5.36			20	6.97
309	5-Nov-01	5.57	3.69	4.52			20	6.81
310	6-Nov-01	5.72	4.47	5.09			20	6.63
311	7-Nov-01	5.72	3.07	4.63			20	6.45
312	8-Nov-01	3.53	1.33	2.23			20	5.99
313	9-Nov-01	2.75	0.53	1.31			20	5.38
314	10-Nov-01	2.43	0.04	0.97			20	4.60
315	11-Nov-01	2.43	0.20	1.01			20	4.02
316	12-Nov-01	3.38	0.85	1.78			20	3.71
317	13-Nov-01	3.07	1.64	2.30			20	3.33
318	14-Nov-01	4.63	2.75	3.60			20	3.17
319	15-Nov-01	5.10	3.69	4.17			20	3.40
320	16-Nov-01	4.94	3.22	4.02			20	3.71
321	17-Nov-01	5.57	4.63	4.93			20	4.16
322	18-Nov-01	6.19	4.00	4.87			20	4.70
323	19-Nov-01	4.16	2.43	3.28			20	4.81
324	20-Nov-01	4.79	3.07	3.76			20	5.05
325	21-Nov-01	5.88	4.32	4.88			20	5.23
326	22-Nov-01	4.94	4.32	4.69			20	5.21
327	23-Nov-01	4.94	4.00	4.47			20	5.21
328	24-Nov-01	4.00	2.59	3.15			20	4.99
329	25-Nov-01	2.90	2.12	2.50			20	4.52
330	26-Nov-01	3.07	1.96	2.46			20	4.36
331	27-Nov-01	2.90	1.48	2.20			20	4.09
332	28-Nov-01	1.33	-0.11	0.39			20	3.44
333	29-Nov-01	0.53	0.04	0.19			20	2.81
334	30-Nov-01	1.48	0.37	0.81			20	2.32
335	1-Dec-01	1.33	0.85	1.06			20	1.93
336	2-Dec-01	1.80	1.00	1.34			20	1.78
337	3-Dec-01	1.96	1.33	1.62			20	1.62
338	4-Dec-01	1.48	0.37	0.82			20	1.42
339	5-Dec-01	0.69	0.04	0.34			20	1.32
340	6-Dec-01	0.37	-0.11	0.13			20	1.30
341	7-Dec-01	1.48	0.37	0.77			20	1.30
342	8-Dec-01	1.64	0.53	0.92			20	1.35
343	9-Dec-01	1.33	0.20	0.66			20	1.28
344	10-Dec-01	1.33	0.53	0.85			20	1.19
345	11-Dec-01	0.85	0.04	0.38			20	1.10
346	12-Dec-01	0.69	0.04	0.23			20	1.10

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Moose Creek
Data Collection Site: near mouth
Data Period: 1/1/01 - 12/30/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 680 M
Waterbody ID Number: 27

Import File : ... \StowAway\Selway 2001\Moose Creek 2001.txt
Calibration Factor : 0.04

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msr mts per day	7-Day Average of High
347	13-Dec-01	0.04	-0.11	0.02			20	1.05
348	14-Dec-01	0.20	0.04	0.06			20	0.87
349	15-Dec-01	0.37	0.04	0.11			20	0.69
350	16-Dec-01	0.04	-0.11	0.02			20	0.50
351	17-Dec-01	0.53	0.04	0.18			20	0.39
352	18-Dec-01	0.20	-0.11	0.07			20	0.30
353	19-Dec-01	0.53	0.04	0.12			20	0.27
354	20-Dec-01	0.53	-0.11	0.16			20	0.34
355	21-Dec-01	0.69	0.04	0.31			20	0.41
356	22-Dec-01	1.00	0.20	0.42			20	0.50
357	23-Dec-01	0.69	-0.11	0.12			20	0.60
358	24-Dec-01	0.04	0.04	0.04			20	0.53
359	25-Dec-01	0.04	0.04	0.04			20	0.50
360	26-Dec-01	0.04	-0.11	0.02			20	0.43
361	27-Dec-01	0.04	-0.11	0.03			20	0.36
362	28-Dec-01	0.04	-0.11	0.02			20	0.27
363	29-Dec-01	0.04	0.04	0.04			20	0.13
364	30-Dec-01	0.20	0.04	0.06			20	0.06

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.96	0.00	0.52			20	
2	2-Jan-01	0.00	0.00	0.00			20	
3	3-Jan-01	0.48	0.00	0.10			20	
4	4-Jan-01	1.12	0.00	0.44			20	
5	5-Jan-01	1.12	0.16	0.51			20	
6	6-Jan-01	0.48	0.00	0.10			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.59
8	8-Jan-01	0.16	0.00	0.01			20	0.48
9	9-Jan-01	0.00	0.00	0.00			20	0.48
10	10-Jan-01	0.00	0.00	0.00			20	0.41
11	11-Jan-01	0.00	0.00	0.00			20	0.25
12	12-Jan-01	0.00	0.00	0.00			20	0.09
13	13-Jan-01	0.48	0.00	0.11			20	0.09
14	14-Jan-01	0.80	0.00	0.30			20	0.21
15	15-Jan-01	0.80	0.16	0.32			20	0.30
16	16-Jan-01	0.64	0.00	0.18			20	0.39
17	17-Jan-01	0.64	0.00	0.10			20	0.48
18	18-Jan-01	0.00	0.00	0.00			20	0.48
19	19-Jan-01	0.16	0.00	0.04			20	0.50
20	20-Jan-01	0.64	0.00	0.23			20	0.53
21	21-Jan-01	0.80	0.00	0.25			20	0.53
22	22-Jan-01	1.28	0.48	0.67			20	0.59
23	23-Jan-01	1.28	0.00	0.65			20	0.69
24	24-Jan-01	0.48	0.00	0.10			20	0.66
25	25-Jan-01	1.12	0.32	0.58			20	0.82
26	26-Jan-01	1.28	0.00	0.47			20	0.98
27	27-Jan-01	0.80	0.00	0.12			20	1.01
28	28-Jan-01	0.00	0.00	0.00			20	0.89
29	29-Jan-01	0.00	0.00	0.00			20	0.71
30	30-Jan-01	0.00	0.00	0.00			20	0.53
31	31-Jan-01	0.00	0.00	0.00			20	0.46
32	1-Feb-01	0.16	0.00	0.01			20	0.32
33	2-Feb-01	0.64	0.00	0.38			20	0.23
34	3-Feb-01	1.28	0.32	0.65			20	0.30
35	4-Feb-01	0.64	0.00	0.31			20	0.39
36	5-Feb-01	0.64	0.00	0.24			20	0.48
37	6-Feb-01	1.60	0.32	0.73			20	0.71
38	7-Feb-01	1.12	0.00	0.43			20	0.87
39	8-Feb-01	0.00	0.00	0.00			20	0.85
40	9-Feb-01	0.00	0.00	0.00			20	0.75
41	10-Feb-01	0.00	0.00	0.00			20	0.57
42	11-Feb-01	0.48	0.00	0.08			20	0.55
43	12-Feb-01	0.48	0.00	0.07			20	0.53
44	13-Feb-01	0.96	0.00	0.31			20	0.43
45	14-Feb-01	0.80	0.00	0.23			20	0.39
46	15-Feb-01	0.96	0.00	0.38			20	0.53
47	16-Feb-01	1.75	0.16	0.72			20	0.78

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	1	1%	
19 °C Average	0	0%	
Days Evaluated & Date Range	80	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	26	28%	
9 °C Average Spring	36	39%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	24	30%	
9 °C Average Fall	27	33%	
Fall Days Eval'd w/in Dates	81	15-Aug	15-Nov
13 °C Instantaneous Total *	50	29%	
9 °C Average Total *	63	36%	
Tot Days Eval'd w/in Both Dates *	173		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	68	76%	
Juvenile Days Eval'd w/in Dates	89	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	13	25%	
Spawning Days Eval'd w/in Dates	52	1-Sep	31-Oct

NOTES

Comments: Data from two deployments combined. Data wrapped so that fall 2000 data follows summer 2001 data. Data gap from 8-29 thru 9-9. Candidate stream for *a priori* natural. Monitored as state Outstanding Resource Water nominee. Temperature exceeds Idaho's cold water aquatic life criteria less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	2.23	0.64	1.05			20	1.09
49	18-Feb-01	1.75	0.80	1.13			20	1.28
50	19-Feb-01	2.55	0.48	1.20			20	1.57
51	20-Feb-01	2.23	0.32	1.03			20	1.75
52	21-Feb-01	1.91	0.96	1.29			20	1.91
53	22-Feb-01	2.39	0.96	1.46			20	2.12
54	23-Feb-01	2.55	1.28	1.64			20	2.23
55	24-Feb-01	2.55	0.80	1.50			20	2.28
56	25-Feb-01	2.71	0.00	1.03			20	2.41
57	26-Feb-01	3.02	0.16	1.14			20	2.48
58	27-Feb-01	2.71	0.00	0.64			20	2.55
59	28-Feb-01	1.12	0.00	0.15			20	2.44
60	1-Mar-01	0.64	0.00	0.13			20	2.19
61	2-Mar-01	1.75	0.16	0.74			20	2.07
62	3-Mar-01	3.02	0.00	0.96			20	2.14
63	4-Mar-01	2.39	0.00	1.04			20	2.09
64	5-Mar-01	3.65	0.96	1.87			20	2.18
65	6-Mar-01	4.27	0.32	1.71			20	2.41
66	7-Mar-01	3.81	0.32	1.47			20	2.79
67	8-Mar-01	3.34	0.32	1.48			20	3.18
68	9-Mar-01	2.07	0.80	1.34			20	3.22
69	10-Mar-01	3.50	1.28	2.15			20	3.29
70	11-Mar-01	2.86	1.75	2.21			20	3.36
71	12-Mar-01	3.65	1.91	2.49			20	3.36
72	13-Mar-01	5.06	2.07	2.97			20	3.47
73	14-Mar-01	3.34	1.43	2.30			20	3.40
74	15-Mar-01	3.50	0.48	1.94			20	3.43
75	16-Mar-01	3.34	1.60	2.40			20	3.61
76	17-Mar-01	3.81	1.28	2.45			20	3.65
77	18-Mar-01	4.59	2.07	3.19			20	3.90
78	19-Mar-01	3.81	2.39	2.94			20	3.92
79	20-Mar-01	5.21	1.60	2.95			20	3.94
80	21-Mar-01	5.21	1.43	2.91			20	4.21
81	22-Mar-01	5.21	1.12	2.76			20	4.45
82	23-Mar-01	5.68	1.43	3.17			20	4.79
83	24-Mar-01	5.21	2.55	3.64			20	4.99
84	25-Mar-01	3.50	2.39	2.88			20	4.83
85	26-Mar-01	3.81	2.23	2.97			20	4.83
86	27-Mar-01	4.75	2.07	3.22			20	4.77
87	28-Mar-01	5.21	2.86	3.77			20	4.77
88	29-Mar-01	5.68	3.02	4.15			20	4.83
89	30-Mar-01	4.12	3.34	3.71			20	4.61
90	31-Mar-01	3.96	2.07	3.15			20	4.43
91	1-Apr-01	5.37	2.71	3.95			19	4.70
92	2-Apr-01	4.27	3.34	3.71			20	4.77
93	3-Apr-01	4.59	1.91	3.02			20	4.74
94	4-Apr-01	5.52	2.55	3.79			20	4.79
95	5-Apr-01	5.68	1.43	3.30			20	4.79
96	6-Apr-01	4.43	2.07	3.18			20	4.83
97	7-Apr-01	4.75	3.02	3.72			20	4.94

STATISTICS	
Maximum Daily Maximum (MDM)	22.1 ºC
Maximum 7-Day Maximum (MWM)	21.1 ºC
Maximum Daily Average (MDA)	18.5 ºC
Maximum 7-Day Average (MWA)	17.7 ºC
Mean Daily Maximum	7.4 ºC
Mean Daily Average	5.9 ºC
Mean Daily Minimum	4.8 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	5.9 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	96	87%	
Nmbr of 7-Day Avg's w/in Dates	110	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	80	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	4.27	2.55	3.28			20	4.79
99	9-Apr-01	3.81	2.07	2.93			20	4.72
100	10-Apr-01	5.21	2.23	3.47			20	4.81
101	11-Apr-01	3.96	2.39	3.30			20	4.59
102	12-Apr-01	4.43	2.39	3.27			20	4.41
103	13-Apr-01	4.75	2.39	3.48			20	4.45
104	14-Apr-01	5.68	2.23	3.67			20	4.59
105	15-Apr-01	6.92	1.75	3.94			20	4.97
106	16-Apr-01	7.08	2.23	4.40			20	5.43
107	17-Apr-01	7.85	3.34	5.42			20	5.81
108	18-Apr-01	6.77	4.12	5.51			20	6.21
109	19-Apr-01	5.83	4.27	5.12			20	6.41
110	20-Apr-01	4.90	3.02	4.06			20	6.43
111	21-Apr-01	5.52	3.18	4.33			20	6.41
112	22-Apr-01	5.83	2.86	4.44			20	6.25
113	23-Apr-01	6.77	4.12	5.30			20	6.21
114	24-Apr-01	9.40	4.59	6.54			20	6.43
115	25-Apr-01	8.93	3.96	6.26			20	6.74
116	26-Apr-01	7.54	4.12	5.82			20	6.98
117	27-Apr-01	6.61	4.43	5.43			20	7.23
118	28-Apr-01	5.68	3.81	4.78			20	7.25
119	29-Apr-01	5.52	3.50	4.54			20	7.21
120	30-Apr-01	5.21	4.27	4.75			20	6.98
121	1-May-01	4.43	3.34	3.91			20	6.27
122	2-May-01	5.21	2.86	3.84			20	5.74
123	3-May-01	6.30	2.55	4.22			20	5.57
124	4-May-01	7.38	3.50	5.19			20	5.68
125	5-May-01	6.46	4.90	5.55			20	5.79
126	6-May-01	6.61	3.18	4.72			20	5.94
127	7-May-01	7.38	3.34	5.15			20	6.25
128	8-May-01	7.38	4.27	5.86			20	6.67
129	9-May-01	7.54	4.59	5.94			20	7.01
130	10-May-01	8.01	4.27	5.99			20	7.25
131	11-May-01	8.01	4.12	5.96			20	7.34
132	12-May-01	8.16	4.59	6.26			20	7.58
133	13-May-01	8.01	5.37	6.52			20	7.78
134	14-May-01	6.92	5.21	6.07			20	7.72
135	15-May-01	6.30	5.06	5.73			20	7.56
136	16-May-01	6.61	5.06	5.73			20	7.43
137	17-May-01	7.08	3.50	5.30			20	7.30
138	18-May-01	6.77	5.21	5.87			20	7.12
139	19-May-01	8.31	4.12	6.06			20	7.14
140	20-May-01	7.23	5.37	6.35			20	7.03
141	21-May-01	8.47	3.65	5.93			20	7.25
142	22-May-01	10.17	4.90	7.22			20	7.81
143	23-May-01	10.80	5.68	8.05			20	8.40
144	24-May-01	9.86	6.30	8.20			20	8.80
145	25-May-01	10.64	7.08	8.68			20	9.35
146	26-May-01	10.17	6.77	8.40			20	9.62
147	27-May-01	9.55	7.08	8.41			20	9.95
148	28-May-01	10.33	7.08	8.62			20	10.22

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	9.24	6.92	8.19			20	10.08
150	30-May-01	9.08	4.90	6.93			20	9.84
151	31-May-01	11.56	7.38	9.10			20	10.08
152	1-Jun-01	11.41	7.70	9.57			20	10.19
153	2-Jun-01	10.80	8.31	9.15			20	10.28
154	3-Jun-01	8.16	6.77	7.23			20	10.08
155	4-Jun-01	6.61	4.75	5.41			20	9.55
156	5-Jun-01	6.77	4.59	5.63			20	9.20
157	6-Jun-01	9.08	5.83	7.19			20	9.20
158	7-Jun-01	8.16	6.15	7.11			20	8.71
159	8-Jun-01	10.64	6.46	8.31			20	8.60
160	9-Jun-01	11.41	8.62	9.89			20	8.69
161	10-Jun-01	10.17	8.47	9.46			20	8.98
162	11-Jun-01	10.17	8.16	9.09			20	9.49
163	12-Jun-01	8.93	6.61	7.73			20	9.79
164	13-Jun-01	6.92	5.37	6.12			20	9.49
165	14-Jun-01	7.85	5.83	6.81			20	9.44
166	15-Jun-01	11.41	6.92	8.63			20	9.55
167	16-Jun-01	12.18	7.08	9.36			20	9.66
168	17-Jun-01	12.03	8.62	10.23			20	9.93
169	18-Jun-01	12.18	8.16	9.98			20	10.21
170	19-Jun-01	12.34	7.54	9.75			20	10.70
171	20-Jun-01	13.73	8.47	10.75			20	11.67
172	21-Jun-01	14.98	9.71	12.05			20	12.69
173	22-Jun-01	16.26	11.10	13.32	J		20	13.39
174	23-Jun-01	16.10	12.03	13.89	J		20	13.95
175	24-Jun-01	14.82	12.03	13.43	J		20	14.34
176	25-Jun-01	14.98	10.95	12.91	J		20	14.74
177	26-Jun-01	15.46	11.72	13.47	J		20	15.19
178	27-Jun-01	15.15	12.18	13.59	J		20	15.39
179	28-Jun-01	17.37	12.50	14.58	J		20	15.73
180	29-Jun-01	17.68	12.50	14.83	J		20	15.94
181	30-Jun-01	17.05	12.96	15.01	J		20	16.07
182	1-Jul-01	18.98	13.58	15.90	J		20	16.67
183	2-Jul-01	18.98	13.73	16.17	J		20	17.24
184	3-Jul-01	19.47	13.88	16.45	J		20	17.81
185	4-Jul-01	18.01	14.82	16.24	J		20	18.22
186	5-Jul-01	16.41	15.15	15.68	J		20	18.08
187	6-Jul-01	17.85	13.27	15.43	J		20	18.11
188	7-Jul-01	17.85	12.96	15.37	J		20	18.22
189	8-Jul-01	18.01	14.51	16.14	J		20	18.08
190	9-Jul-01	18.33	14.98	16.47	J		20	17.99
191	10-Jul-01	19.95	14.98	17.27	J		20	18.06
192	11-Jul-01	18.65	14.67	16.62	J		20	18.15
193	12-Jul-01	18.65	14.98	16.66	J		20	18.47
194	13-Jul-01	16.89	14.35	15.68	J		20	18.33
195	14-Jul-01	19.14	13.42	15.98	J		20	18.52
196	15-Jul-01	17.05	14.98	16.08	J		20	18.38
197	16-Jul-01	15.15	13.73	14.38	J		20	17.93

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	15.62	12.03	13.66	J		20	17.31
199	18-Jul-01	15.46	12.18	13.67	J		20	16.85
200	19-Jul-01	17.68	12.18	14.51	J		20	16.71
201	20-Jul-01	17.68	13.27	15.30	J		20	16.83
202	21-Jul-01	18.82	13.73	15.78	J		20	16.78
203	22-Jul-01	18.82	13.73	15.95	J		20	17.03
204	23-Jul-01	18.49	13.12	15.64	J		20	17.51
205	24-Jul-01	18.65	13.27	15.83	J		20	17.94
206	25-Jul-01	19.79	13.73	16.38	J		20	18.56
207	26-Jul-01	19.79	13.73	16.52	J		20	18.86
208	27-Jul-01	20.11	13.73	16.65	J		20	19.21
209	28-Jul-01	17.68	14.35	16.14	J		20	19.05
210	29-Jul-01	16.73	12.96	14.95	J		20	18.75
211	30-Jul-01	14.67	12.96	13.67	J		20	18.20
212	31-Jul-01	15.31	12.34	13.31	J		20	17.73
213	1-Aug-01	16.89	10.95	13.67	J		20	17.31
214	2-Aug-01	19.14	12.65	15.46	J		20	17.22
215	3-Aug-01	18.49	13.58	16.04	J		20	16.99
216	4-Aug-01	18.65	14.35	16.30	J		20	17.13
217	5-Aug-01	20.27	13.58	16.53	J		20	17.63
218	6-Aug-01	21.26	14.20	17.32	J		20	18.57
219	7-Aug-01	21.76	15.15	18.10	J		20	19.49
220	8-Aug-01	22.10	15.78	18.53	J		20	20.24
221	9-Aug-01	20.43	14.82	17.48	J		20	20.42
222	10-Aug-01	21.10	14.35	17.34	J		20	20.80
223	11-Aug-01	19.79	14.20	16.94	J		20	20.96
224	12-Aug-01	20.93	14.20	17.22	J		20	21.05
225	13-Aug-01	20.60	15.94	18.13	J		20	20.96
226	14-Aug-01	19.95	15.46	17.66	J		20	20.70
227	15-Aug-01	20.93	14.67	17.43	J		20	20.53
228	16-Aug-01	21.10	14.51	17.45	J		20	20.63
229	17-Aug-01	21.10	14.20	17.29	J		20	20.63
230	18-Aug-01	21.10	14.98	17.68	J		20	20.82
231	19-Aug-01	20.11	14.04	16.85	J		20	20.70
232	20-Aug-01	19.30	12.81	15.85	J		20	20.51
233	21-Aug-01	19.30	12.65	15.73	J		20	20.42
234	22-Aug-01	18.49	12.96	15.64	J		20	20.07
235	23-Aug-01	18.65	13.12	15.72	J		20	19.72
236	24-Aug-01	19.79	14.20	16.47	J		20	19.53
237	25-Aug-01	19.47	12.50	15.69	J		20	19.30
238	26-Aug-01	19.79	12.65	15.85	J		20	19.26
239	27-Aug-01	20.11	13.42	16.36	J		20	19.37
240	28-Aug-01	17.37	13.58	15.17	J		13	19.10
241	10-Sep-01	10.64	8.62	9.51		S	20	17.97
242	11-Sep-01	13.27	9.55	10.85		S	20	17.21
243	12-Sep-01	15.15	8.77	11.46		S	20	16.54
244	13-Sep-01	17.05	9.71	12.63		S	20	16.20
245	14-Sep-01	17.52	10.33	13.18		S	20	15.87
246	15-Sep-01	17.68	10.64	13.66		S	20	15.53

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	16-Sep-01	18.98	12.03	14.71		S	20	15.76
248	17-Sep-01	18.98	12.65	14.89		S	20	16.95
249	18-Sep-01	14.82	11.41	13.18		S	20	17.17
250	19-Sep-01	15.62	12.81	13.93		S	20	17.24
251	20-Sep-01	14.20	9.71	11.83		S	20	16.83
252	21-Sep-01	12.65	10.02	11.33		S	20	16.13
253	22-Sep-01	10.33	7.38	8.73			20	15.08
254	23-Sep-01	10.64	4.27	6.87			20	13.89
255	24-Sep-01	10.33	3.34	6.10			20	12.66
256	25-Sep-01	10.80	3.65	6.53			20	12.08
257	26-Sep-01	11.25	4.12	6.89			20	11.46
258	27-Sep-01	11.56	4.27	7.06			20	11.08
259	28-Sep-01	10.33	4.75	7.28			20	10.75
260	29-Sep-01	10.02	5.83	7.75			20	10.70
261	30-Sep-01	9.86	7.54	8.59			20	10.59
262	1-Oct-01	10.02	9.08	9.48		S	20	10.55
263	2-Oct-01	9.40	7.54	8.45			20	10.35
264	3-Oct-01	9.08	6.77	7.64			20	10.04
265	4-Oct-01	7.08	4.90	6.07			20	9.40
266	5-Oct-01	7.08	3.81	5.27			20	8.93
267	6-Oct-01	6.30	2.86	4.34			20	8.40
268	7-Oct-01	6.46	2.55	4.17			20	7.92
269	8-Oct-01	6.92	2.86	4.59			20	7.47
270	9-Oct-01	7.23	3.50	5.06			20	7.16
271	10-Oct-01	7.70	5.21	6.25			20	6.97
272	11-Oct-01	8.31	6.77	7.45			20	7.14
273	12-Oct-01	7.54	7.08	7.32			20	7.21
274	13-Oct-01	7.08	6.30	6.64			20	7.32
275	14-Oct-01	7.23	6.15	6.67			20	7.43
276	15-Oct-01	7.70	5.83	6.74			20	7.54
277	16-Oct-01	7.38	5.06	6.14			20	7.56
278	17-Oct-01	7.38	4.90	5.93			20	7.52
279	18-Oct-01	7.08	4.75	5.95			20	7.34
280	19-Oct-01	9.08	6.61	7.32			20	7.56
281	20-Oct-01	7.23	5.52	6.35			20	7.58
282	21-Oct-01	7.23	5.99	6.80			20	7.58
283	22-Oct-01	6.30	3.96	5.18			20	7.38
284	23-Oct-01	4.27	2.07	3.09			20	6.94
285	24-Oct-01	4.27	1.91	2.84			20	6.49
286	25-Oct-01	4.27	1.91	2.88			20	6.09
287	26-Oct-01	4.59	2.23	3.32			20	5.45
288	27-Oct-01	5.83	4.12	4.74			20	5.25
289	28-Oct-01	4.75	3.02	4.05			20	4.90
290	29-Oct-01	6.15	4.59	5.29			21	4.88
291	30-Oct-01	6.15	4.90	5.41			20	5.14
292	31-Oct-01	5.99	4.75	5.17			20	5.39
293	1-Nov-01	4.90	3.18	4.21			20	5.48
294	2-Nov-01	3.65	1.43	2.45			20	5.35
295	3-Nov-01	3.02	0.96	1.59			20	4.94
296	4-Nov-01	1.91	0.48	1.32			20	4.54

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
297	5-Nov-01	2.23	1.43	1.82			20	3.98
298	6-Nov-01	3.02	1.43	2.01			20	3.53
299	7-Nov-01	3.02	0.64	1.77			20	3.11
300	8-Nov-01	0.64	0.00	0.18			20	2.50
301	9-Nov-01	1.43	0.00	0.54			20	2.18
302	10-Nov-01	0.16	0.00	0.06			20	1.77
303	11-Nov-01	0.00	0.00	0.00			20	1.50
304	12-Nov-01	0.16	0.00	0.01			20	1.20
305	13-Nov-01	0.16	0.00	0.01			20	0.80
306	14-Nov-01	0.00	0.00	0.00			20	0.36
307	15-Nov-01	0.00	0.00	0.00			20	0.27
308	16-Nov-01	0.16	0.00	0.04			20	0.09
309	17-Nov-01	0.16	0.00	0.03			20	0.09
310	18-Nov-01	0.00	0.00	0.00			20	0.09
311	19-Nov-01	0.16	0.00	0.01			20	0.09
312	20-Nov-01	0.00	0.00	0.00			20	0.07
313	21-Nov-01	0.00	0.00	0.00			20	0.07
314	22-Nov-01	0.00	0.00	0.00			20	0.07
315	23-Nov-01	0.00	0.00	0.00			20	0.05
316	24-Nov-01	0.00	0.00	0.00			20	0.02
317	25-Nov-01	0.16	0.00	0.02			20	0.05
318	26-Nov-01	0.16	0.00	0.02			20	0.05
319	27-Nov-01	0.16	0.00	0.06			20	0.07
320	28-Nov-01	0.32	0.00	0.05			20	0.11
321	29-Nov-01	0.00	0.00	0.00			20	0.11
322	30-Nov-01	0.48	0.00	0.17			20	0.18
323	1-Dec-01	0.64	0.00	0.33			20	0.27
324	2-Dec-01	0.00	0.00	0.00			20	0.25
325	3-Dec-01	0.48	0.00	0.14			20	0.30
326	4-Dec-01	0.96	0.32	0.58			20	0.41
327	5-Dec-01	1.12	0.16	0.54			20	0.53
328	6-Dec-01	0.64	0.00	0.34			20	0.62
329	7-Dec-01	0.00	0.00	0.00			20	0.55
330	8-Dec-01	0.00	0.00	0.00			20	0.46
331	9-Dec-01	0.16	0.00	0.02			20	0.48
332	10-Dec-01	0.80	0.00	0.34			20	0.53
333	11-Dec-01	0.00	0.00	0.00			20	0.39
334	12-Dec-01	0.00	0.00	0.00			20	0.23
335	13-Dec-01	0.00	0.00	0.00			20	0.14
336	14-Dec-01	0.00	0.00	0.00			20	0.14
337	15-Dec-01	0.00	0.00	0.00			20	0.14
338	16-Dec-01	0.00	0.00	0.00			20	0.11
339	17-Dec-01	0.00	0.00	0.00			20	0.00
340	18-Dec-01	0.00	0.00	0.00			20	0.00
341	19-Dec-01	0.00	0.00	0.00			20	0.00
342	20-Dec-01	0.00	0.00	0.00			20	0.00
343	21-Dec-01	0.00	0.00	0.00			20	0.00
344	22-Dec-01	0.00	0.00	0.00			20	0.00
345	23-Dec-01	0.00	0.00	0.00			20	0.00
346	24-Dec-01	0.48	0.00	0.16			20	0.07
347	25-Dec-01	0.96	0.48	0.57			20	0.21

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Running Creek
Data Collection Site: near airstrip
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 877 M
Waterbody ID Number: 8

Import File : ... ay\Selway 2001\Running Creek 2001-00ed.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
348	26-Dec-01	0.64	0.00	0.28			20	0.30
349	27-Dec-01	0.80	0.00	0.33			20	0.41
350	28-Dec-01	1.12	0.16	0.61			20	0.57
351	29-Dec-01	0.16	0.00	0.02			20	0.59
352	30-Dec-01	0.80	0.16	0.45			20	0.71
353	31-Dec-01	0.96	0.32	0.67			20	0.78

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.00	0.00	0.00			20	
2	2-Jan-01	0.00	0.00	0.00			20	
3	3-Jan-01	0.00	0.00	0.00			20	
4	4-Jan-01	0.00	0.00	0.00			20	
5	5-Jan-01	0.00	0.00	0.00			20	
6	6-Jan-01	0.00	0.00	0.00			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.00
8	8-Jan-01	0.00	0.00	0.00			20	0.00
9	9-Jan-01	0.00	0.00	0.00			20	0.00
10	10-Jan-01	0.00	0.00	0.00			20	0.00
11	11-Jan-01	0.00	0.00	0.00			20	0.00
12	12-Jan-01	0.00	0.00	0.00			20	0.00
13	13-Jan-01	0.00	0.00	0.00			20	0.00
14	14-Jan-01	0.00	0.00	0.00			20	0.00
15	15-Jan-01	0.00	0.00	0.00			20	0.00
16	16-Jan-01	0.00	0.00	0.00			20	0.00
17	17-Jan-01	0.00	0.00	0.00			20	0.00
18	18-Jan-01	0.00	0.00	0.00			20	0.00
19	19-Jan-01	0.00	0.00	0.00			20	0.00
20	20-Jan-01	0.00	0.00	0.00			20	0.00
21	21-Jan-01	0.00	0.00	0.00			20	0.00
22	22-Jan-01	0.00	0.00	0.00			20	0.00
23	23-Jan-01	0.00	0.00	0.00			20	0.00
24	24-Jan-01	0.00	0.00	0.00			20	0.00
25	25-Jan-01	0.00	0.00	0.00			20	0.00
26	26-Jan-01	0.00	0.00	0.00			20	0.00
27	27-Jan-01	0.00	0.00	0.00			20	0.00
28	28-Jan-01	0.00	0.00	0.00			20	0.00
29	29-Jan-01	0.00	0.00	0.00			20	0.00
30	30-Jan-01	0.00	0.00	0.00			20	0.00
31	31-Jan-01	0.00	0.00	0.00			20	0.00
32	1-Feb-01	0.00	0.00	0.00			20	0.00
33	2-Feb-01	0.00	0.00	0.00			20	0.00
34	3-Feb-01	0.00	0.00	0.00			20	0.00
35	4-Feb-01	0.00	0.00	0.00			20	0.00
36	5-Feb-01	0.00	0.00	0.00			20	0.00
37	6-Feb-01	0.00	0.00	0.00			20	0.00
38	7-Feb-01	0.00	0.00	0.00			20	0.00
39	8-Feb-01	0.00	0.00	0.00			20	0.00
40	9-Feb-01	0.00	0.00	0.00			20	0.00
41	10-Feb-01	0.00	0.00	0.00			20	0.00
42	11-Feb-01	0.00	0.00	0.00			20	0.00
43	12-Feb-01	0.00	0.00	0.00			20	0.00
44	13-Feb-01	0.00	0.00	0.00			20	0.00
45	14-Feb-01	0.00	0.00	0.00			20	0.00
46	15-Feb-01	0.00	0.00	0.00			20	0.00
47	16-Feb-01	0.00	0.00	0.00			20	0.00

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	12	13%	
19 °C Average	15	16%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	29	32%	
9 °C Average Spring	43	47%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	48	52%	
9 °C Average Fall	51	55%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	77	42%	
9 °C Average Total *	94	51%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	72	78%	
Juvenile Days Eval'd w/in Dates	92	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	34	56%	
Spawning Days Eval'd w/in Dates	61	1-Sep	31-Oct

NOTES

Comments: Combined data from two deployments. Stream is a priori natural. Monitored as state Outstanding Resource Water nominee.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
48	17-Feb-01	0.16	0.00	0.03			20	0.02
49	18-Feb-01	0.16	0.00	0.05			20	0.05
50	19-Feb-01	0.32	0.00	0.06			20	0.09
51	20-Feb-01	0.16	0.00	0.04			20	0.11
52	21-Feb-01	0.16	0.00	0.10			20	0.14
53	22-Feb-01	0.48	0.00	0.22			20	0.21
54	23-Feb-01	0.96	0.16	0.50			20	0.34
55	24-Feb-01	1.60	0.16	0.79			20	0.55
56	25-Feb-01	1.28	0.00	0.58			20	0.71
57	26-Feb-01	2.08	0.00	0.92			20	0.96
58	27-Feb-01	1.60	0.00	0.58			20	1.17
59	28-Feb-01	1.28	0.00	0.29			20	1.33
60	1-Mar-01	1.28	0.00	0.35			20	1.44
61	2-Mar-01	1.76	0.00	0.62			20	1.55
62	3-Mar-01	2.55	0.00	1.01			20	1.69
63	4-Mar-01	2.24	0.00	1.07			20	1.83
64	5-Mar-01	3.03	0.48	1.64			20	1.96
65	6-Mar-01	3.18	0.00	1.49			20	2.19
66	7-Mar-01	3.03	0.00	1.31			20	2.44
67	8-Mar-01	3.18	0.00	1.39			20	2.71
68	9-Mar-01	2.08	1.13	1.61			20	2.76
69	10-Mar-01	3.18	1.13	2.05			20	2.85
70	11-Mar-01	2.86	1.76	2.31			20	2.93
71	12-Mar-01	3.81	1.92	2.61			20	3.05
72	13-Mar-01	4.91	2.39	3.45			20	3.29
73	14-Mar-01	3.81	2.24	3.09			20	3.40
74	15-Mar-01	3.81	1.28	2.53			20	3.49
75	16-Mar-01	4.13	2.08	2.98			20	3.79
76	17-Mar-01	4.13	1.76	2.86			20	3.92
77	18-Mar-01	5.38	2.86	4.00			20	4.28
78	19-Mar-01	4.60	3.50	4.06			20	4.40
79	20-Mar-01	5.84	2.71	4.07			20	4.53
80	21-Mar-01	5.53	1.76	3.52			20	4.77
81	22-Mar-01	5.69	1.44	3.43			20	5.04
82	23-Mar-01	6.15	1.92	3.87			20	5.33
83	24-Mar-01	6.31	3.34	4.76			20	5.64
84	25-Mar-01	4.60	3.03	3.56			20	5.53
85	26-Mar-01	4.28	3.03	3.54			20	5.49
86	27-Mar-01	5.38	2.71	4.04			20	5.42
87	28-Mar-01	5.84	3.65	4.73			20	5.46
88	29-Mar-01	6.78	4.13	5.24			20	5.62
89	30-Mar-01	5.53	4.28	4.92			20	5.53
90	31-Mar-01	4.60	2.86	3.81			20	5.29
91	1-Apr-01	6.62	3.50	4.84			19	5.58
92	2-Apr-01	5.69	3.97	4.61			20	5.78
93	3-Apr-01	5.84	2.55	3.95			20	5.84
94	4-Apr-01	6.31	3.34	4.61			20	5.91
95	5-Apr-01	6.62	2.24	4.32			20	5.89
96	6-Apr-01	4.91	3.18	4.13			20	5.80
97	7-Apr-01	5.53	3.97	4.60			20	5.93

STATISTICS	
Maximum Daily Maximum (MDM)	23.6 ºC
Maximum 7-Day Maximum (MWM)	22.7 ºC
Maximum Daily Average (MDA)	20.9 ºC
Maximum 7-Day Average (MWA)	20.0 ºC
Mean Daily Maximum	8.6 ºC
Mean Daily Average	7.4 ºC
Mean Daily Minimum	6.2 ºC
Minimum 7-Day Minimum	-0.1 ºC
Minimum Daily Minimum	-0.1 ºC
Mean of all Data	7.4 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	117	96%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	5.06	3.03	3.97			20	5.71
99	9-Apr-01	5.06	2.86	3.83			20	5.62
100	10-Apr-01	5.53	2.86	4.16			20	5.57
101	11-Apr-01	5.06	3.50	4.35			20	5.40
102	12-Apr-01	5.38	3.65	4.39			20	5.22
103	13-Apr-01	5.84	3.50	4.41			20	5.35
104	14-Apr-01	6.78	3.03	4.52			20	5.53
105	15-Apr-01	7.86	3.03	5.24			20	5.93
106	16-Apr-01	8.01	3.81	5.87			20	6.35
107	17-Apr-01	8.94	5.06	6.89			20	6.84
108	18-Apr-01	8.16	6.15	7.31			20	7.28
109	19-Apr-01	7.55	5.53	6.64			20	7.59
110	20-Apr-01	6.15	4.28	5.23			20	7.64
111	21-Apr-01	6.93	4.13	5.42			20	7.66
112	22-Apr-01	7.24	4.13	5.57			20	7.57
113	23-Apr-01	8.01	5.38	6.47			20	7.57
114	24-Apr-01	10.49	6.15	8.03			20	7.79
115	25-Apr-01	10.03	6.00	8.16			20	8.06
116	26-Apr-01	8.78	5.69	7.45			20	8.23
117	27-Apr-01	7.70	5.22	6.67			20	8.45
118	28-Apr-01	6.78	4.44	5.58			20	8.43
119	29-Apr-01	6.15	4.13	5.19			20	8.28
120	30-Apr-01	5.84	4.91	5.40			20	7.97
121	1-May-01	5.38	4.13	4.65			20	7.24
122	2-May-01	5.84	3.50	4.52			20	6.64
123	3-May-01	7.24	3.18	5.11			20	6.42
124	4-May-01	8.48	4.44	6.33			20	6.53
125	5-May-01	7.70	6.00	6.76			20	6.66
126	6-May-01	7.55	3.65	5.58			20	6.86
127	7-May-01	8.32	4.28	6.27			20	7.22
128	8-May-01	8.48	5.53	7.15			20	7.66
129	9-May-01	8.32	5.84	7.24			20	8.01
130	10-May-01	8.78	5.53	7.16			20	8.23
131	11-May-01	8.63	5.06	6.92			20	8.25
132	12-May-01	8.78	5.53	7.23			20	8.41
133	13-May-01	8.48	6.31	7.38			20	8.54
134	14-May-01	7.55	5.53	6.66			20	8.43
135	15-May-01	7.09	5.69	6.49			20	8.23
136	16-May-01	6.93	5.84	6.40			20	8.03
137	17-May-01	7.39	4.28	5.84			20	7.84
138	18-May-01	7.86	6.15	6.89			20	7.73
139	19-May-01	8.78	5.38	6.98			20	7.73
140	20-May-01	8.63	6.62	7.64			20	7.75
141	21-May-01	8.78	4.75	6.76			20	7.92
142	22-May-01	10.34	6.15	8.14			20	8.39
143	23-May-01	10.95	6.78	8.93			20	8.96
144	24-May-01	10.18	7.09	8.96			20	9.36
145	25-May-01	10.95	7.70	9.32			20	9.80
146	26-May-01	10.80	7.39	9.13			20	10.09
147	27-May-01	10.18	8.01	9.33			20	10.31
148	28-May-01	11.26	7.86	9.51			20	10.67

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	10.49	8.16	9.35			20	10.69
150	30-May-01	9.56	5.84	7.78			20	10.49
151	31-May-01	12.35	8.32	10.08			20	10.80
152	1-Jun-01	12.04	8.78	10.57			20	10.95
153	2-Jun-01	11.57	9.56	10.39			20	11.06
154	3-Jun-01	9.87	7.39	8.44			20	11.02
155	4-Jun-01	7.09	5.06	5.79			20	10.42
156	5-Jun-01	7.39	5.22	6.28			20	9.98
157	6-Jun-01	9.87	6.78	8.09			20	10.03
158	7-Jun-01	9.09	7.24	8.14			20	9.56
159	8-Jun-01	11.73	7.55	9.43			20	9.52
160	9-Jun-01	12.50	9.87	11.16			20	9.65
161	10-Jun-01	11.73	9.71	10.76			20	9.91
162	11-Jun-01	11.41	9.56	10.54			20	10.53
163	12-Jun-01	10.18	7.55	8.83			20	10.93
164	13-Jun-01	7.24	5.84	6.60			20	10.55
165	14-Jun-01	9.09	6.46	7.66			20	10.55
166	15-Jun-01	12.19	7.70	9.60			20	10.62
167	16-Jun-01	12.97	8.32	10.60			20	10.69
168	17-Jun-01	13.28	10.03	11.64			20	10.91
169	18-Jun-01	13.28	9.56	11.45			20	11.18
170	19-Jun-01	13.28	8.78	11.13			20	11.62
171	20-Jun-01	14.51	9.71	12.06			20	12.66
172	21-Jun-01	16.10	11.11	13.53	J		20	13.66
173	22-Jun-01	17.21	12.50	14.87	J		20	14.38
174	23-Jun-01	17.05	13.43	15.43	J		20	14.96
175	24-Jun-01	16.25	13.59	15.07	J		20	15.38
176	25-Jun-01	16.10	12.19	14.18	J		20	15.79
177	26-Jun-01	17.21	12.97	15.02	J		20	16.35
178	27-Jun-01	16.73	13.59	15.27	J		20	16.66
179	28-Jun-01	18.01	14.05	15.94	J		20	16.94
180	29-Jun-01	18.83	13.89	16.36	J		20	17.17
181	30-Jun-01	18.66	14.67	16.78	J		20	17.40
182	1-Jul-01	20.28	14.99	17.53	J		20	17.97
183	2-Jul-01	20.60	15.62	18.17	J		20	18.62
184	3-Jul-01	21.26	15.78	18.55	J		20	19.20
185	4-Jul-01	19.63	16.89	18.32	J		20	19.61
186	5-Jul-01	18.50	16.58	17.12	J		20	19.68
187	6-Jul-01	19.95	14.51	16.87	J		20	19.84
188	7-Jul-01	19.47	14.67	17.20	J		20	19.96
189	8-Jul-01	20.28	15.94	17.89	J		20	19.96
190	9-Jul-01	19.95	16.58	18.19	J		20	19.86
191	10-Jul-01	22.60	16.89	19.56	J		20	20.05
192	11-Jul-01	20.44	17.05	18.85	J		20	20.17
193	12-Jul-01	20.28	16.89	18.50	J		20	20.42
194	13-Jul-01	18.66	15.94	17.41	J		20	20.24
195	14-Jul-01	21.26	14.99	17.83	J		20	20.50
196	15-Jul-01	19.63	17.21	18.19	J		20	20.40
197	16-Jul-01	16.89	15.15	15.76	J		20	19.97

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	BullExcd S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	16.89	13.13	14.83	J		20	19.15
199	18-Jul-01	16.73	13.74	15.24	J		20	18.62
200	19-Jul-01	19.95	14.20	16.73	J		20	18.57
201	20-Jul-01	19.95	15.78	17.72	J		20	18.76
202	21-Jul-01	20.76	15.94	17.98	J		20	18.69
203	22-Jul-01	20.93	15.94	18.33	J		20	18.87
204	23-Jul-01	21.10	15.46	18.27	J		20	19.47
205	24-Jul-01	20.76	15.46	18.18	J		20	20.03
206	25-Jul-01	21.93	16.10	18.90	J		20	20.77
207	26-Jul-01	21.93	15.94	18.96	J		20	21.05
208	27-Jul-01	22.26	15.78	19.06	J		20	21.38
209	28-Jul-01	20.28	16.58	18.57	J		20	21.31
210	29-Jul-01	18.50	14.67	16.82	J		20	20.97
211	30-Jul-01	16.73	14.51	15.28	J		20	20.34
212	31-Jul-01	14.99	13.13	14.03	J		20	19.52
213	1-Aug-01	18.01	12.04	14.71	J		20	18.96
214	2-Aug-01	20.76	14.20	17.17	J		20	18.79
215	3-Aug-01	20.60	15.78	18.27	J		20	18.55
216	4-Aug-01	19.79	16.10	18.08	J		20	18.48
217	5-Aug-01	21.76	15.46	18.46	J		20	18.95
218	6-Aug-01	22.93	16.58	19.74	J		20	19.83
219	7-Aug-01	23.61	17.69	20.69	J		20	21.07
220	8-Aug-01	23.44	18.18	20.89	J		20	21.84
221	9-Aug-01	22.43	17.05	19.93	J		20	22.08
222	10-Aug-01	22.26	16.41	19.48	J		20	22.32
223	11-Aug-01	21.60	16.25	19.16	J		20	22.58
224	12-Aug-01	22.60	15.94	19.29	J		20	22.70
225	13-Aug-01	22.60	18.01	20.55	J		20	22.65
226	14-Aug-01	22.60	17.53	20.22	J		20	22.50
227	15-Aug-01	22.26	17.05	19.88	J		20	22.34
228	16-Aug-01	22.26	16.41	19.55	J		20	22.31
229	17-Aug-01	21.93	16.10	19.39	J		20	22.26
230	18-Aug-01	21.93	17.05	19.81	J		20	22.31
231	19-Aug-01	20.93	15.78	18.66	J		20	22.07
232	20-Aug-01	20.44	14.51	17.70	J		20	21.76
233	21-Aug-01	20.28	14.51	17.60	J		20	21.43
234	22-Aug-01	19.47	14.67	17.53	J		20	21.03
235	23-Aug-01	19.79	14.83	17.51	J		20	20.68
236	24-Aug-01	20.44	16.10	18.33	J		20	20.47
237	25-Aug-01	20.28	14.20	17.50	J		20	20.23
238	26-Aug-01	20.60	14.51	17.90	J		20	20.19
239	27-Aug-01	21.10	15.46	18.49	J		20	20.28
240	28-Aug-01	20.93	15.78	18.63	J		20	20.37
241	29-Aug-01	20.60	14.67	17.86	J		20	20.53
242	30-Aug-01	20.09	14.50	17.71	J		20	20.58
243	31-Aug-01	20.09	15.13	17.86	J		20	20.53
244	1-Sep-01	19.93	14.97	17.63		S	20	20.48
245	2-Sep-01	19.93	14.65	17.56		S	20	20.38
246	3-Sep-01	20.25	14.97	17.87		S	20	20.26

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	Bull juvnl	Excd J S-spawn	Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	19.12	14.97	17.50		S	20	20.00
248	5-Sep-01	18.64	15.29	17.05		S	20	19.72
249	6-Sep-01	17.03	13.57	15.42		S	20	19.28
250	7-Sep-01	14.97	12.65	13.53		S	20	18.55
251	8-Sep-01	14.65	9.55	12.31		S	20	17.80
252	9-Sep-01	15.29	9.70	12.76		S	20	17.14
253	10-Sep-01	16.24	10.64	13.62		S	20	16.56
254	11-Sep-01	16.71	11.56	14.52		S	20	16.22
255	12-Sep-01	17.19	12.34	14.95		S	20	16.01
256	13-Sep-01	17.83	13.73	15.90		S	20	16.13
257	14-Sep-01	19.44	14.97	17.18		S	20	16.76
258	15-Sep-01	18.31	13.73	16.48		S	20	17.29
259	16-Sep-01	17.99	13.26	15.96		S	20	17.67
260	17-Sep-01	17.51	14.19	16.14		S	20	17.85
261	18-Sep-01	16.87	13.11	15.30		S	20	17.88
262	19-Sep-01	15.60	11.71	14.07		S	20	17.65
263	20-Sep-01	14.50	10.17	12.79		S	20	17.17
264	21-Sep-01	14.50	10.01	12.55		S	20	16.47
265	22-Sep-01	14.19	9.86	12.39		S	20	15.88
266	23-Sep-01	14.97	10.33	12.93		S	20	15.45
267	24-Sep-01	15.45	10.94	13.44		S	20	15.15
268	25-Sep-01	14.34	10.94	13.18		S	20	14.79
269	26-Sep-01	14.97	12.18	13.73		S	20	14.70
270	27-Sep-01	14.81	11.40	13.46		S	20	14.75
271	28-Sep-01	14.34	12.18	13.52		S	20	14.72
272	29-Sep-01	14.81	11.40	13.19		S	20	14.81
273	30-Sep-01	13.88	9.70	12.20		S	20	14.66
274	1-Oct-01	13.42	9.39	11.89		S	20	14.37
275	2-Oct-01	12.49	9.39	11.40		S	20	14.10
276	3-Oct-01	11.87	8.47	10.55		S	20	13.66
277	4-Oct-01	10.79	7.39	9.51		S	20	13.09
278	5-Oct-01	9.39	5.84	8.02			20	12.38
279	6-Oct-01	8.93	5.06	7.38			20	11.54
280	7-Oct-01	8.63	6.00	7.71			20	10.79
281	8-Oct-01	9.70	8.16	8.94			20	10.26
282	9-Oct-01	9.09	7.70	8.34			20	9.77
283	10-Oct-01	9.24	6.46	7.88			20	9.40
284	11-Oct-01	8.93	7.39	8.08			20	9.13
285	12-Oct-01	7.39	6.46	6.87			20	8.84
286	13-Oct-01	8.01	6.15	6.94			20	8.71
287	14-Oct-01	8.16	6.93	7.46			20	8.65
288	15-Oct-01	8.47	6.00	7.13			20	8.47
289	16-Oct-01	8.01	5.06	6.53			20	8.32
290	17-Oct-01	8.32	6.46	7.30			20	8.18
291	18-Oct-01	6.93	5.22	6.09			20	7.90
292	19-Oct-01	7.55	5.84	6.56			20	7.92
293	20-Oct-01	8.93	7.09	7.79			20	8.05
294	21-Oct-01	7.09	5.53	6.40			20	7.90
295	22-Oct-01	6.93	6.15	6.54			20	7.68
296	23-Oct-01	6.62	5.69	6.12			20	7.48

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	Bull juvnl	Excd S-spawn	Nbr of Msrmts per day	7-Day Average of High
297	24-Oct-01	5.84	4.75	5.31			20	7.13
298	25-Oct-01	4.91	3.82	4.40			20	6.84
299	26-Oct-01	4.44	2.40	3.48			20	6.39
300	27-Oct-01	4.29	2.09	3.25			20	5.73
301	28-Oct-01	5.69	4.29	5.00			21	5.53
302	29-Oct-01	6.46	5.69	6.08			20	5.46
303	30-Oct-01	7.09	6.46	6.75			20	5.53
304	31-Oct-01	7.55	6.78	7.11			20	5.78
305	1-Nov-01	7.09	6.31	6.75			20	6.09
306	2-Nov-01	7.09	6.31	6.65			20	6.47
307	3-Nov-01	6.78	5.22	6.06			20	6.82
308	4-Nov-01	5.06	3.66	4.35			20	6.73
309	5-Nov-01	4.75	2.56	3.64			20	6.49
310	6-Nov-01	5.38	3.98	4.63			20	6.24
311	7-Nov-01	5.06	3.35	4.50			20	5.89
312	8-Nov-01	2.88	1.30	2.01			20	5.29
313	9-Nov-01	1.61	0.02	0.81			20	4.50
314	10-Nov-01	1.14	-0.14	0.32			20	3.70
315	11-Nov-01	1.14	-0.14	0.33			20	3.14
316	12-Nov-01	2.24	0.34	1.20			20	2.78
317	13-Nov-01	2.72	1.14	1.91			20	2.40
318	14-Nov-01	3.66	2.40	2.98			20	2.20
319	15-Nov-01	4.13	2.72	3.34			20	2.38
320	16-Nov-01	4.29	2.72	3.48			20	2.76
321	17-Nov-01	4.44	3.66	4.05			20	3.23
322	18-Nov-01	5.38	3.98	4.57			20	3.84
323	19-Nov-01	3.82	2.72	3.30			20	4.06
324	20-Nov-01	4.44	3.04	3.67			20	4.31
325	21-Nov-01	5.22	4.13	4.55			20	4.53
326	22-Nov-01	4.91	4.13	4.53			20	4.64
327	23-Nov-01	4.91	4.13	4.51			20	4.73
328	24-Nov-01	3.82	2.56	3.11			20	4.64
329	25-Nov-01	2.40	1.77	2.17			20	4.22
330	26-Nov-01	2.72	1.61	2.13			20	4.06
331	27-Nov-01	2.09	0.98	1.63			20	3.72
332	28-Nov-01	0.66	-0.14	0.00			20	3.07
333	29-Nov-01	0.02	-0.14	-0.11			20	2.37
334	30-Nov-01	0.98	-0.14	0.37			20	1.81
335	1-Dec-01	0.66	0.18	0.41			20	1.36
336	2-Dec-01	0.66	-0.14	0.32			20	1.11
337	3-Dec-01	1.30	0.02	0.64			20	0.91
338	4-Dec-01	0.82	-0.14	0.11			20	0.73
339	5-Dec-01	0.02	-0.14	-0.08			20	0.64
340	6-Dec-01	-0.08	-0.14	-0.14			20	0.62
341	7-Dec-01	0.50	-0.14	0.08			20	0.55
342	8-Dec-01	0.18	-0.14	-0.06			20	0.49
343	9-Dec-01	0.02	-0.14	-0.13			20	0.39
344	10-Dec-01	0.18	-0.14	0.04			20	0.23
345	11-Dec-01	0.02	-0.14	-0.05			20	0.12
346	12-Dec-01	-0.08	-0.14	-0.14			20	0.11
347	13-Dec-01	-0.08	-0.14	-0.14			20	0.11

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Bear Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 760 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msr mts per day	7-Day Average of High
348	14-Dec-01	0.02	-0.14	-0.12			20	0.04
349	15-Dec-01	-0.08	-0.14	-0.14			20	0.00
350	16-Dec-01	-0.08	-0.14	-0.14			20	-0.01
351	17-Dec-01	0.02	-0.14	-0.12			20	-0.04
352	18-Dec-01	0.02	-0.14	-0.06			20	-0.04
353	19-Dec-01	-0.08	-0.14	-0.14			20	-0.04
354	20-Dec-01	-0.08	-0.14	-0.14			20	-0.04
355	21-Dec-01	-0.08	-0.14	-0.14			20	-0.05
356	22-Dec-01	0.02	-0.14	-0.07			20	-0.04
357	23-Dec-01	0.02	-0.14	-0.08			20	-0.02
358	24-Dec-01	0.02	-0.14	-0.08			20	-0.02
359	25-Dec-01	0.02	-0.14	0.01			20	-0.02
360	26-Dec-01	0.02	-0.14	0.01			20	-0.01
361	27-Dec-01	0.02	-0.14	-0.06			20	0.01
362	28-Dec-01	-0.08	-0.14	-0.14			20	0.01
363	29-Dec-01	-0.08	-0.14	-0.14			20	-0.01
364	30-Dec-01	-0.08	-0.14	-0.14			20	-0.02
365	31-Dec-01	-0.08	-0.14	-0.14			20	-0.04

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.31	0.00	0.15			20	
2	2-Jan-01	0.15	0.00	0.09			20	
3	3-Jan-01	0.15	0.00	0.07			20	
4	4-Jan-01	0.31	0.00	0.11			20	
5	5-Jan-01	0.31	0.15	0.18			20	
6	6-Jan-01	0.15	0.00	0.12			20	
7	7-Jan-01	0.15	0.00	0.01			20	0.22
8	8-Jan-01	0.15	0.00	0.11			20	0.20
9	9-Jan-01	0.03	0.00	0.00			20	0.18
10	10-Jan-01	0.15	0.00	0.08			20	0.18
11	11-Jan-01	0.15	0.00	0.05			20	0.16
12	12-Jan-01	0.15	0.00	0.11			20	0.13
13	13-Jan-01	0.15	0.15	0.15			20	0.13
14	14-Jan-01	0.31	0.00	0.15			20	0.16
15	15-Jan-01	0.15	0.15	0.15			20	0.16
16	16-Jan-01	0.31	0.00	0.12			20	0.20
17	17-Jan-01	0.15	0.00	0.05			20	0.20
18	18-Jan-01	0.15	0.00	0.08			20	0.20
19	19-Jan-01	0.15	0.00	0.09			20	0.20
20	20-Jan-01	0.15	0.00	0.11			20	0.20
21	21-Jan-01	0.31	0.00	0.13			20	0.20
22	22-Jan-01	0.31	0.15	0.19			20	0.22
23	23-Jan-01	0.31	0.00	0.16			20	0.22
24	24-Jan-01	0.15	0.00	0.09			20	0.22
25	25-Jan-01	0.31	0.15	0.20			20	0.24
26	26-Jan-01	0.31	0.00	0.14			20	0.26
27	27-Jan-01	0.31	0.00	0.14			20	0.29
28	28-Jan-01	0.03	0.00	0.00			20	0.25
29	29-Jan-01	0.15	0.00	0.06			20	0.22
30	30-Jan-01	0.03	0.00	0.00			20	0.18
31	31-Jan-01	0.15	0.00	0.04			20	0.18
32	1-Feb-01	0.31	0.15	0.17			20	0.18
33	2-Feb-01	0.15	0.00	0.13			20	0.16
34	3-Feb-01	0.31	0.15	0.20			20	0.16
35	4-Feb-01	0.31	0.00	0.17			20	0.20
36	5-Feb-01	0.47	0.00	0.21			20	0.25
37	6-Feb-01	0.47	0.15	0.26			20	0.31
38	7-Feb-01	0.31	0.00	0.12			20	0.33
39	8-Feb-01	0.15	0.00	0.04			20	0.31
40	9-Feb-01	0.15	0.00	0.06			20	0.31
41	10-Feb-01	0.15	0.00	0.04			20	0.29
42	11-Feb-01	0.15	0.00	0.06			20	0.26
43	12-Feb-01	0.15	0.00	0.04			20	0.22
44	13-Feb-01	0.47	0.00	0.20			20	0.22
45	14-Feb-01	0.31	0.00	0.13			20	0.22
46	15-Feb-01	0.31	0.00	0.17			20	0.24
47	16-Feb-01	0.64	0.15	0.33			20	0.31

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	1	1%	
19 °C Average	20	22%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	26	28%	
9 °C Average Spring	45	49%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	48	52%	
9 °C Average Fall	53	57%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	74	40%	
9 °C Average Total *	98	53%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	72	78%	
Juvenile Days Eval'd w/in Dates	92	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	36	59%	
Spawning Days Eval'd w/in Dates	61	1-Sep	31-Oct

NOTES

Comments: Combined data from two deployments. Stream is a priori natural. Monitored as state Outstanding Resource Water nominee. Exceeds Idaho's cold water aquatic life daily maximum criterion less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	0.80	0.31	0.46			20	0.40
49	18-Feb-01	0.80	0.31	0.49			20	0.50
50	19-Feb-01	0.80	0.15	0.42			20	0.59
51	20-Feb-01	0.96	0.15	0.37			20	0.66
52	21-Feb-01	0.96	0.31	0.54			20	0.75
53	22-Feb-01	1.12	0.47	0.69			20	0.87
54	23-Feb-01	1.28	0.64	0.91			20	0.96
55	24-Feb-01	1.60	0.80	1.15			20	1.07
56	25-Feb-01	1.28	0.64	1.02			20	1.14
57	26-Feb-01	1.44	0.64	1.03			20	1.23
58	27-Feb-01	1.28	0.64	0.89			20	1.28
59	28-Feb-01	0.64	0.15	0.27			20	1.23
60	1-Mar-01	0.64	0.00	0.27			20	1.17
61	2-Mar-01	1.12	0.31	0.64			20	1.14
62	3-Mar-01	1.44	0.64	1.02			20	1.12
63	4-Mar-01	2.07	1.28	1.62			20	1.23
64	5-Mar-01	2.39	1.60	1.97			20	1.37
65	6-Mar-01	2.55	1.76	2.09			20	1.55
66	7-Mar-01	2.39	1.76	1.96			20	1.80
67	8-Mar-01	2.39	1.60	1.91			20	2.05
68	9-Mar-01	2.86	2.23	2.49			20	2.30
69	10-Mar-01	2.86	1.91	2.41			20	2.50
70	11-Mar-01	3.02	2.55	2.72			20	2.64
71	12-Mar-01	3.02	2.55	2.79			20	2.73
72	13-Mar-01	3.65	3.18	3.37			20	2.88
73	14-Mar-01	3.96	3.34	3.67			20	3.11
74	15-Mar-01	3.34	2.71	3.09			20	3.24
75	16-Mar-01	3.81	3.18	3.48			20	3.38
76	17-Mar-01	3.49	2.86	3.20			20	3.47
77	18-Mar-01	4.59	3.49	4.07			20	3.69
78	19-Mar-01	4.75	4.43	4.61			20	3.94
79	20-Mar-01	4.90	3.81	4.31			20	4.12
80	21-Mar-01	4.90	3.02	3.90			20	4.25
81	22-Mar-01	4.59	2.71	3.68			20	4.43
82	23-Mar-01	5.37	3.02	4.02			20	4.66
83	24-Mar-01	5.84	4.12	4.96			20	4.99
84	25-Mar-01	5.68	3.65	4.21			20	5.15
85	26-Mar-01	4.27	3.49	3.88			20	5.08
86	27-Mar-01	5.37	3.34	4.17			20	5.15
87	28-Mar-01	5.52	4.27	4.89			20	5.23
88	29-Mar-01	6.15	4.59	5.32			20	5.46
89	30-Mar-01	6.15	5.06	5.43			20	5.57
90	31-Mar-01	5.21	3.81	4.24			20	5.48
91	1-Apr-01	6.30	3.96	4.75			19	5.57
92	2-Apr-01	6.15	4.59	5.13			20	5.84
93	3-Apr-01	5.68	3.34	4.30			20	5.88
94	4-Apr-01	5.52	4.12	4.75			20	5.88
95	5-Apr-01	5.52	3.34	4.49			20	5.79
96	6-Apr-01	5.68	3.96	4.69			20	5.72
97	7-Apr-01	5.37	4.43	4.92			20	5.75

STATISTICS	
Maximum Daily Maximum (MDM)	22.1 ºC
Maximum 7-Day Maximum (MWM)	21.3 ºC
Maximum Daily Average (MDA)	21.3 ºC
Maximum 7-Day Average (MWA)	20.4 ºC
Mean Daily Maximum	8.4 ºC
Mean Daily Average	7.7 ºC
Mean Daily Minimum	7.1 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	7.7 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	119	98%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	5.21	3.81	4.37			20	5.59
99	9-Apr-01	4.75	3.65	4.20			20	5.39
100	10-Apr-01	4.90	3.81	4.45			20	5.28
101	11-Apr-01	5.21	4.12	4.74			20	5.23
102	12-Apr-01	5.21	4.43	4.84			20	5.19
103	13-Apr-01	5.37	4.27	4.86			20	5.15
104	14-Apr-01	5.37	3.96	4.80			20	5.15
105	15-Apr-01	6.30	4.12	5.21			20	5.30
106	16-Apr-01	6.76	5.06	6.08			20	5.59
107	17-Apr-01	8.16	5.99	6.98			20	6.05
108	18-Apr-01	8.31	7.07	7.65			20	6.50
109	19-Apr-01	7.85	6.30	7.02			20	6.87
110	20-Apr-01	6.92	5.06	5.68			20	7.10
111	21-Apr-01	6.61	4.90	5.66			20	7.27
112	22-Apr-01	7.07	5.06	5.90			20	7.38
113	23-Apr-01	7.69	5.99	6.67			20	7.52
114	24-Apr-01	9.70	6.76	7.88			20	7.74
115	25-Apr-01	9.54	6.76	8.26			20	7.91
116	26-Apr-01	9.24	6.45	7.77			20	8.11
117	27-Apr-01	8.16	5.84	6.86			20	8.29
118	28-Apr-01	7.07	4.90	5.84			20	8.35
119	29-Apr-01	6.15	4.59	5.39			20	8.22
120	30-Apr-01	5.99	5.37	5.63			20	7.98
121	1-May-01	5.68	4.43	5.00			20	7.40
122	2-May-01	5.84	3.81	4.71			20	6.88
123	3-May-01	6.92	3.96	5.26			20	6.54
124	4-May-01	8.31	5.06	6.46			20	6.57
125	5-May-01	8.16	6.61	7.15			20	6.72
126	6-May-01	7.22	4.27	5.80			20	6.87
127	7-May-01	8.16	4.90	6.36			20	7.18
128	8-May-01	8.46	5.99	7.29			20	7.58
129	9-May-01	8.31	6.30	7.41			20	7.93
130	10-May-01	8.62	5.99	7.31			20	8.18
131	11-May-01	8.46	5.68	7.13			20	8.20
132	12-May-01	8.62	5.99	7.36			20	8.26
133	13-May-01	8.62	6.45	7.43			20	8.46
134	14-May-01	7.69	5.99	6.82			20	8.40
135	15-May-01	7.38	5.99	6.61			20	8.24
136	16-May-01	6.92	6.30	6.62			20	8.04
137	17-May-01	7.38	4.90	6.03			20	7.87
138	18-May-01	7.54	6.61	7.05			20	7.74
139	19-May-01	8.62	5.84	7.04			20	7.74
140	20-May-01	8.62	7.07	7.87			20	7.74
141	21-May-01	8.46	5.52	6.94			20	7.85
142	22-May-01	10.01	6.76	8.11			20	8.22
143	23-May-01	10.47	7.38	8.93			20	8.73
144	24-May-01	10.32	7.54	9.09			20	9.15
145	25-May-01	10.94	8.00	9.40			20	9.63
146	26-May-01	10.63	7.85	9.36			20	9.92
147	27-May-01	10.47	8.46	9.55			20	10.19
148	28-May-01	11.09	8.31	9.71			20	10.56

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	10.94	8.77	9.73			20	10.69
150	30-May-01	9.54	6.76	8.18			20	10.56
151	31-May-01	12.02	8.92	10.04			20	10.80
152	1-Jun-01	12.02	9.54	10.81			20	10.96
153	2-Jun-01	11.87	10.01	10.77			20	11.14
154	3-Jun-01	10.01	8.16	8.97			20	11.07
155	4-Jun-01	7.85	5.52	6.36			20	10.61
156	5-Jun-01	7.54	5.84	6.39			20	10.12
157	6-Jun-01	9.70	7.22	8.04			20	10.14
158	7-Jun-01	9.54	7.85	8.43			20	9.79
159	8-Jun-01	11.09	8.00	9.19			20	9.66
160	9-Jun-01	12.33	10.32	11.19			20	9.72
161	10-Jun-01	12.02	10.32	10.98			20	10.01
162	11-Jun-01	11.40	9.85	10.62			20	10.52
163	12-Jun-01	10.94	8.31	9.46			20	11.00
164	13-Jun-01	8.16	6.45	6.99			20	10.78
165	14-Jun-01	9.24	6.92	7.77			20	10.74
166	15-Jun-01	11.56	8.31	9.57			20	10.81
167	16-Jun-01	12.49	8.92	10.61			20	10.83
168	17-Jun-01	12.80	10.63	11.78			20	10.94
169	18-Jun-01	12.80	10.16	11.51			20	11.14
170	19-Jun-01	12.95	9.70	11.34			20	11.43
171	20-Jun-01	14.03	10.47	12.14			20	12.27
172	21-Jun-01	15.60	11.87	13.55	J		20	13.18
173	22-Jun-01	16.71	13.26	14.89	J		20	13.91
174	23-Jun-01	16.87	14.19	15.62	J		20	14.54
175	24-Jun-01	16.55	14.34	15.40	J		20	15.07
176	25-Jun-01	15.60	13.11	14.42	J		20	15.47
177	26-Jun-01	16.71	13.87	15.02	J		20	16.01
178	27-Jun-01	16.55	14.65	15.62	J		20	16.37
179	28-Jun-01	17.35	14.81	15.90	J		20	16.62
180	29-Jun-01	18.15	14.97	16.42	J		20	16.83
181	30-Jun-01	18.15	15.92	17.00	J		20	17.01
182	1-Jul-01	19.27	16.24	17.54	J		20	17.40
183	2-Jul-01	19.60	16.87	18.22	J		20	17.97
184	3-Jul-01	20.09	17.19	18.58	J		20	18.45
185	4-Jul-01	20.09	17.82	18.79	J		20	18.96
186	5-Jul-01	19.11	17.51	18.08	J		20	19.21
187	6-Jul-01	18.63	16.07	17.09	J		20	19.28
188	7-Jul-01	18.79	16.24	17.59	J		20	19.37
189	8-Jul-01	19.27	17.03	18.12	J		20	19.37
190	9-Jul-01	19.44	17.82	18.67	J		20	19.35
191	10-Jul-01	20.57	18.31	19.28	J		20	19.41
192	11-Jul-01	20.74	18.46	19.51	J		20	19.51
193	12-Jul-01	19.27	18.15	18.86	J		20	19.53
194	13-Jul-01	19.11	17.51	18.20	J		20	19.60
195	14-Jul-01	19.11	16.71	17.84	J		20	19.64
196	15-Jul-01	19.60	18.31	18.91	J		20	19.69
197	16-Jul-01	18.15	15.92	16.76	J		20	19.51

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	BullExcd S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	15.92	14.50	15.31	J		20	18.84
199	18-Jul-01	16.39	14.97	15.75	J		20	18.22
200	19-Jul-01	17.82	15.76	16.63	J		20	18.01
201	20-Jul-01	18.31	17.35	17.86	J		20	17.90
202	21-Jul-01	18.79	17.19	18.08	J		20	17.85
203	22-Jul-01	19.44	17.82	18.69	J		20	17.83
204	23-Jul-01	19.44	17.99	18.77	J		20	18.02
205	24-Jul-01	19.60	18.15	18.94	J		20	18.54
206	25-Jul-01	19.92	18.46	19.14	J		20	19.05
207	26-Jul-01	19.92	18.63	19.36	J		20	19.35
208	27-Jul-01	20.09	18.63	19.36	J		20	19.60
209	28-Jul-01	19.76	18.79	19.36	J		20	19.74
210	29-Jul-01	18.79	16.87	17.83	J		20	19.65
211	30-Jul-01	16.71	15.76	16.38	J		20	19.26
212	31-Jul-01	15.60	14.50	15.02	J		20	18.68
213	1-Aug-01	15.92	13.57	14.60	J		20	18.11
214	2-Aug-01	18.15	16.07	16.95	J		20	17.86
215	3-Aug-01	19.27	17.99	18.61	J		20	17.74
216	4-Aug-01	19.11	18.31	18.63	J		20	17.65
217	5-Aug-01	19.44	17.51	18.30	J		20	17.74
218	6-Aug-01	20.74	18.95	19.68	J		20	18.32
219	7-Aug-01	21.72	20.25	20.79	J		20	19.19
220	8-Aug-01	22.06	20.74	21.26	J		20	20.07
221	9-Aug-01	21.39	20.09	20.71	J		20	20.53
222	10-Aug-01	20.90	19.44	20.08	J		20	20.77
223	11-Aug-01	20.57	19.11	19.77	J		20	20.97
224	12-Aug-01	20.74	18.95	19.74	J		20	21.16
225	13-Aug-01	21.89	19.92	20.75	J		20	21.32
226	14-Aug-01	21.56	20.09	20.76	J		20	21.30
227	15-Aug-01	21.39	19.76	20.53	J		20	21.21
228	16-Aug-01	21.06	19.44	20.20	J		20	21.16
229	17-Aug-01	20.74	18.79	19.78	J		20	21.14
230	18-Aug-01	20.74	19.11	19.91	J		20	21.16
231	19-Aug-01	20.09	18.46	19.24	J		20	21.07
232	20-Aug-01	19.11	17.19	18.22	J		20	20.67
233	21-Aug-01	18.95	17.03	17.97	J		20	20.30
234	22-Aug-01	18.63	17.03	17.90	J		20	19.90
235	23-Aug-01	18.63	16.87	17.79	J		20	19.56
236	24-Aug-01	19.27	17.19	18.06	J		20	19.35
237	25-Aug-01	18.95	16.87	17.92	J		20	19.09
238	26-Aug-01	19.27	16.71	17.95	J		20	18.97
239	27-Aug-01	19.76	17.19	18.45	J		20	19.07
240	28-Aug-01	19.76	17.66	18.77	J		20	19.18
241	29-Aug-01	19.27	17.03	18.20	J		20	19.27
242	30-Aug-01	19.11	16.71	17.97	J		20	19.34
243	31-Aug-01	18.95	16.87	17.96	J		20	19.30
244	1-Sep-01	18.79	16.87	17.88		S	20	19.27
245	2-Sep-01	19.58	16.71	18.15		S	20	19.32
246	3-Sep-01	19.58	16.68	18.15		S	20	19.29

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	Bull juvnl	Excd J S-spawn	Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	19.41	16.84	18.17		S	20	19.24
248	5-Sep-01	18.44	16.84	17.51		S	20	19.12
249	6-Sep-01	17.00	15.73	16.36		S	20	18.82
250	7-Sep-01	15.89	13.84	14.96		S	20	18.38
251	8-Sep-01	14.00	12.30	13.20		S	20	17.70
252	9-Sep-01	14.46	11.99	13.10		S	20	16.97
253	10-Sep-01	15.26	12.45	13.80		S	20	16.35
254	11-Sep-01	16.05	13.38	14.65		S	20	15.87
255	12-Sep-01	16.52	14.00	15.22		S	20	15.60
256	13-Sep-01	17.47	15.10	16.25		S	20	15.66
257	14-Sep-01	18.60	16.21	17.29		S	20	16.05
258	15-Sep-01	18.12	16.21	17.27		S	20	16.64
259	16-Sep-01	17.47	15.26	16.47		S	20	17.07
260	17-Sep-01	17.47	15.57	16.47		S	20	17.39
261	18-Sep-01	17.00	15.41	16.25		S	20	17.52
262	19-Sep-01	15.89	14.15	14.99		S	20	17.43
263	20-Sep-01	14.46	12.61	13.60		S	20	17.00
264	21-Sep-01	14.00	11.83	13.04		S	20	16.34
265	22-Sep-01	13.84	11.67	12.86		S	20	15.73
266	23-Sep-01	14.31	11.83	13.14		S	20	15.28
267	24-Sep-01	14.62	12.30	13.51		S	20	14.87
268	25-Sep-01	14.62	12.61	13.78		S	20	14.53
269	26-Sep-01	14.78	13.23	14.03		S	20	14.38
270	27-Sep-01	14.31	13.07	13.80		S	20	14.35
271	28-Sep-01	14.62	13.38	13.98		S	20	14.44
272	29-Sep-01	14.00	12.61	13.40		S	20	14.47
273	30-Sep-01	13.54	11.83	12.78		S	20	14.36
274	1-Oct-01	13.07	11.21	12.26		S	20	14.13
275	2-Oct-01	12.61	11.06	11.96		S	20	13.85
276	3-Oct-01	11.83	10.28	11.23		S	20	13.43
277	4-Oct-01	10.90	9.19	10.16		S	20	12.94
278	5-Oct-01	9.66	7.96	8.83			20	12.23
279	6-Oct-01	8.57	6.87	7.87			20	11.45
280	7-Oct-01	9.04	7.34	8.29			20	10.81
281	8-Oct-01	9.66	8.57	9.10		S	20	10.32
282	9-Oct-01	9.35	8.88	9.16		S	20	9.86
283	10-Oct-01	9.04	7.96	8.54			20	9.46
284	11-Oct-01	9.04	8.42	8.71			20	9.19
285	12-Oct-01	8.42	7.34	7.93			20	9.02
286	13-Oct-01	8.11	7.19	7.57			20	8.95
287	14-Oct-01	8.26	7.80	8.03			20	8.84
288	15-Oct-01	8.26	7.50	7.83			20	8.64
289	16-Oct-01	7.65	7.03	7.36			20	8.40
290	17-Oct-01	8.11	7.19	7.71			20	8.26
291	18-Oct-01	7.50	6.87	7.15			20	8.04
292	19-Oct-01	7.19	6.87	7.01			20	7.87
293	20-Oct-01	8.11	7.19	7.68			20	7.87
294	21-Oct-01	8.11	6.87	7.38			20	7.85
295	22-Oct-01	7.34	7.03	7.23			20	7.72

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
296	23-Oct-01	7.19	6.25	6.77			20	7.65
297	24-Oct-01	6.25	5.62	5.90			20	7.38
298	25-Oct-01	5.62	5.16	5.34			20	7.12
299	26-Oct-01	5.16	4.06	4.50			20	6.83
300	27-Oct-01	4.37	4.06	4.21			20	6.29
301	28-Oct-01	5.62	4.37	5.22			21	5.94
302	29-Oct-01	6.56	5.78	6.16			20	5.82
303	30-Oct-01	7.19	6.56	6.89			20	5.82
304	31-Oct-01	7.65	7.19	7.38			20	6.02
305	1-Nov-01	7.50	7.03	7.20			20	6.29
306	2-Nov-01	7.19	6.87	7.04			20	6.58
307	3-Nov-01	7.34	6.56	6.92			20	7.01
308	4-Nov-01	6.56	5.00	5.58			20	7.14
309	5-Nov-01	5.00	4.06	4.50			20	6.92
310	6-Nov-01	5.31	4.85	5.13			20	6.65
311	7-Nov-01	5.47	4.53	5.04			20	6.34
312	8-Nov-01	4.53	2.33	3.23			20	5.91
313	9-Nov-01	2.49	1.37	1.81			20	5.24
314	10-Nov-01	1.54	0.90	1.13			20	4.41
315	11-Nov-01	1.22	0.74	0.97			20	3.65
316	12-Nov-01	1.85	1.06	1.45			20	3.20
317	13-Nov-01	2.65	2.01	2.29			20	2.82
318	14-Nov-01	3.75	2.65	3.21			20	2.58
319	15-Nov-01	3.91	3.60	3.76			20	2.49
320	16-Nov-01	4.06	3.75	3.94			20	2.71
321	17-Nov-01	4.85	4.22	4.59			20	3.18
322	18-Nov-01	4.85	4.69	4.71			20	3.70
323	19-Nov-01	4.85	3.75	4.15			20	4.13
324	20-Nov-01	4.22	3.75	3.95			20	4.36
325	21-Nov-01	5.16	4.37	4.78			20	4.56
326	22-Nov-01	5.16	4.85	5.03			20	4.74
327	23-Nov-01	5.16	5.00	5.06			20	4.89
328	24-Nov-01	5.00	3.60	4.14			20	4.91
329	25-Nov-01	3.44	2.81	3.04			20	4.71
330	26-Nov-01	2.96	2.65	2.81			20	4.44
331	27-Nov-01	2.81	2.17	2.55			20	4.24
332	28-Nov-01	2.01	0.41	1.09			20	3.79
333	29-Nov-01	0.57	0.41	0.48			20	3.14
334	30-Nov-01	0.74	0.57	0.65			20	2.50
335	1-Dec-01	1.06	0.74	0.96			20	1.94
336	2-Dec-01	1.06	0.90	0.93			20	1.60
337	3-Dec-01	1.22	0.90	1.12			20	1.35
338	4-Dec-01	1.22	0.57	0.97			20	1.13
339	5-Dec-01	0.57	0.25	0.45			20	0.92
340	6-Dec-01	0.41	0.25	0.33			20	0.90
341	7-Dec-01	0.74	0.41	0.51			20	0.90
342	8-Dec-01	0.57	0.25	0.42			20	0.83
343	9-Dec-01	0.57	0.25	0.36			20	0.76
344	10-Dec-01	0.41	0.25	0.34			20	0.64
345	11-Dec-01	0.57	0.25	0.31			20	0.55
346	12-Dec-01	0.25	0.25	0.25			20	0.50

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Moose Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 678 M
Waterbody ID Number: 1

Import File : ... y\Selway 2001\Selway abv Moose Cr 2001.txt
Calibration Factor : -0.03

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msr mts per day	7-Day Average of High
347	13-Dec-01	0.25	0.25	0.25			20	0.48
348	14-Dec-01	0.41	0.25	0.27			20	0.43
349	15-Dec-01	0.41	0.25	0.27			20	0.41
350	16-Dec-01	0.25	0.25	0.25			20	0.36
351	17-Dec-01	0.57	0.25	0.37			20	0.39
352	18-Dec-01	0.25	0.25	0.25			20	0.34
353	19-Dec-01	0.25	0.25	0.25			20	0.34
354	20-Dec-01	0.25	0.25	0.25			20	0.34
355	21-Dec-01	0.57	0.25	0.35			20	0.36
356	22-Dec-01	0.41	0.25	0.36			20	0.36
357	23-Dec-01	0.25	0.25	0.25			20	0.36
358	24-Dec-01	0.25	0.09	0.23			20	0.32
359	25-Dec-01	0.25	0.09	0.24			20	0.32
360	26-Dec-01	0.25	0.25	0.25			20	0.32
361	27-Dec-01	0.25	0.09	0.21			20	0.32
362	28-Dec-01	0.25	0.09	0.22			20	0.27
363	29-Dec-01	0.25	0.09	0.21			20	0.25
364	30-Dec-01	0.25	0.25	0.25			20	0.25
365	31-Dec-01	0.25	0.25	0.25			20	0.25

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.96	0.65	0.80			20	
2	2-Jan-01	0.65	0.33	0.47			20	
3	3-Jan-01	0.65	0.49	0.55			20	
4	4-Jan-01	0.65	0.33	0.50			20	
5	5-Jan-01	0.81	0.49	0.70			20	
6	6-Jan-01	0.81	0.49	0.64			20	
7	7-Jan-01	0.49	0.16	0.20			20	0.72
8	8-Jan-01	0.33	0.16	0.22			20	0.63
9	9-Jan-01	0.16	0.16	0.16			20	0.56
10	10-Jan-01	0.16	0.16	0.16			20	0.49
11	11-Jan-01	0.33	0.16	0.22			20	0.44
12	12-Jan-01	0.49	0.33	0.35			20	0.40
13	13-Jan-01	0.65	0.33	0.43			20	0.37
14	14-Jan-01	0.65	0.33	0.49			20	0.40
15	15-Jan-01	0.65	0.33	0.46			20	0.44
16	16-Jan-01	0.65	0.33	0.43			20	0.51
17	17-Jan-01	0.49	0.16	0.35			20	0.56
18	18-Jan-01	0.16	0.16	0.16			20	0.53
19	19-Jan-01	0.49	0.16	0.31			20	0.53
20	20-Jan-01	0.49	0.33	0.48			20	0.51
21	21-Jan-01	0.81	0.33	0.55			20	0.53
22	22-Jan-01	0.96	0.65	0.80			20	0.58
23	23-Jan-01	0.81	0.65	0.79			20	0.60
24	24-Jan-01	0.81	0.33	0.52			20	0.65
25	25-Jan-01	0.81	0.49	0.62			20	0.74
26	26-Jan-01	0.65	0.49	0.56			20	0.76
27	27-Jan-01	0.81	0.33	0.54			20	0.81
28	28-Jan-01	0.33	0.16	0.17			20	0.74
29	29-Jan-01	0.16	0.00	0.02			20	0.63
30	30-Jan-01	0.00	0.00	0.00			20	0.51
31	31-Jan-01	0.16	0.00	0.02			20	0.42
32	1-Feb-01	0.49	0.16	0.24			20	0.37
33	2-Feb-01	0.65	0.16	0.41			20	0.37
34	3-Feb-01	0.96	0.33	0.56			20	0.39
35	4-Feb-01	0.81	0.49	0.68			20	0.46
36	5-Feb-01	0.96	0.16	0.51			20	0.58
37	6-Feb-01	1.29	0.81	1.03			20	0.76
38	7-Feb-01	1.13	0.33	0.90			20	0.90
39	8-Feb-01	0.33	0.16	0.21			20	0.88
40	9-Feb-01	0.33	0.16	0.21			20	0.83
41	10-Feb-01	0.49	0.16	0.32			20	0.76
42	11-Feb-01	0.65	0.33	0.42			20	0.74
43	12-Feb-01	0.49	0.16	0.31			20	0.67
44	13-Feb-01	1.13	0.33	0.63			20	0.65
45	14-Feb-01	0.96	0.49	0.67			20	0.63
46	15-Feb-01	0.65	0.33	0.53			20	0.67
47	16-Feb-01	1.44	0.49	0.85			20	0.83

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	3	4%	
19 °C Average	23	27%	
Days Evaluated & Date Range	84	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	26	28%	
9 °C Average Spring	44	48%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	30	35%	
9 °C Average Fall	37	44%	
Fall Days Eval'd w/in Dates	85	15-Aug	15-Nov
13 °C Instantaneous Total *	56	32%	
9 °C Average Total *	81	46%	
Tot Days Eval'd w/in Both Dates *	177		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	0	0%	
Juvenile Days Eval'd w/in Dates	0	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	0	0%	
Spawning Days Eval'd w/in Dates	0	1-Sep	31-Oct

NOTES

Comments: Data from one deployment wrapped so that fall 2000 data follows summer 2001data. Data gap from 9-5 thru 9-12. Stream is *a priori* natural. Monitored as state Outstanding Resource Water nominee. Temperature exceeds Idaho's cold water aquatic life daily maximum criterion less than 10% of the critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	1.92	1.13	1.48			20	1.03
49	18-Feb-01	1.92	1.44	1.67			20	1.22
50	19-Feb-01	2.08	1.60	1.78			20	1.44
51	20-Feb-01	1.76	1.13	1.42			20	1.53
52	21-Feb-01	2.24	1.29	1.83			20	1.72
53	22-Feb-01	2.39	1.92	2.09			20	1.96
54	23-Feb-01	2.39	2.08	2.21			20	2.10
55	24-Feb-01	2.55	1.92	2.21			20	2.19
56	25-Feb-01	2.24	1.76	1.94			20	2.24
57	26-Feb-01	1.92	1.44	1.69			20	2.21
58	27-Feb-01	1.60	0.96	1.30			20	2.19
59	28-Feb-01	1.29	0.49	0.73			20	2.05
60	1-Mar-01	1.13	0.16	0.54			20	1.87
61	2-Mar-01	1.76	0.81	1.16			20	1.78
62	3-Mar-01	2.08	1.29	1.58			20	1.72
63	4-Mar-01	2.55	1.60	1.95			20	1.76
64	5-Mar-01	3.03	2.08	2.55			20	1.92
65	6-Mar-01	3.34	2.24	2.65			20	2.17
66	7-Mar-01	3.34	2.39	2.71			20	2.46
67	8-Mar-01	3.34	2.08	2.75			20	2.78
68	9-Mar-01	3.49	3.03	3.26			20	3.02
69	10-Mar-01	3.34	2.71	3.02			20	3.20
70	11-Mar-01	3.34	3.03	3.19			20	3.32
71	12-Mar-01	3.65	2.86	3.22			20	3.41
72	13-Mar-01	4.28	3.34	3.72			20	3.54
73	14-Mar-01	4.28	3.65	3.91			20	3.67
74	15-Mar-01	3.81	3.18	3.52			20	3.74
75	16-Mar-01	4.28	3.65	3.87			20	3.85
76	17-Mar-01	4.28	3.49	3.89			20	3.99
77	18-Mar-01	4.90	3.81	4.31			20	4.21
78	19-Mar-01	5.05	4.59	4.80			20	4.41
79	20-Mar-01	4.90	3.81	4.28			20	4.50
80	21-Mar-01	4.90	3.81	4.16			20	4.59
81	22-Mar-01	4.28	3.49	3.89			20	4.66
82	23-Mar-01	4.59	3.81	4.08			20	4.70
83	24-Mar-01	5.21	4.43	4.73			20	4.83
84	25-Mar-01	5.21	3.96	4.55			20	4.88
85	26-Mar-01	4.28	3.81	3.99			20	4.77
86	27-Mar-01	4.90	3.81	4.24			20	4.77
87	28-Mar-01	5.21	4.59	4.91			20	4.81
88	29-Mar-01	5.68	4.90	5.26			20	5.01
89	30-Mar-01	5.68	5.21	5.50			20	5.17
90	31-Mar-01	5.52	4.28	4.65			20	5.21
91	1-Apr-01	5.52	4.12	4.54			19	5.26
92	2-Apr-01	5.68	4.90	5.33			20	5.46
93	3-Apr-01	5.21	4.12	4.51			20	5.50
94	4-Apr-01	5.36	4.74	5.21			20	5.52
95	5-Apr-01	5.52	4.28	4.88			20	5.50
96	6-Apr-01	5.52	4.74	5.05			20	5.48
97	7-Apr-01	5.21	4.90	5.08			20	5.43

STATISTICS	
Maximum Daily Maximum (MDM)	22.1 ºC
Maximum 7-Day Maximum (MWM)	21.7 ºC
Maximum Daily Average (MDA)	21.2 ºC
Maximum 7-Day Average (MWA)	20.6 ºC
Mean Daily Maximum	7.9 ºC
Mean Daily Average	7.3 ºC
Mean Daily Minimum	6.8 ºC
Minimum 7-Day Minimum	0.1 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	7.3 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	106	93%	
Nmbr of 7-Day Avg's w/in Dates	114	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	84	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	5.21	4.43	4.76			20	5.39
99	9-Apr-01	4.59	4.28	4.46			20	5.23
100	10-Apr-01	5.05	4.43	4.70			20	5.21
101	11-Apr-01	5.21	4.74	5.00			20	5.19
102	12-Apr-01	5.36	4.90	5.11			20	5.16
103	13-Apr-01	5.36	5.05	5.21			20	5.14
104	14-Apr-01	5.36	4.59	5.11			20	5.16
105	15-Apr-01	5.83	4.90	5.40			20	5.25
106	16-Apr-01	6.61	5.83	6.21			20	5.54
107	17-Apr-01	7.54	6.61	6.93			20	5.90
108	18-Apr-01	7.85	7.38	7.61			20	6.27
109	19-Apr-01	7.69	6.76	7.22			20	6.61
110	20-Apr-01	7.23	5.52	6.12			20	6.87
111	21-Apr-01	6.14	5.52	5.76			20	6.98
112	22-Apr-01	6.76	5.52	6.13			20	7.12
113	23-Apr-01	7.23	6.45	6.79			20	7.21
114	24-Apr-01	8.77	7.08	7.55			20	7.38
115	25-Apr-01	8.77	7.23	8.08			20	7.51
116	26-Apr-01	8.77	6.76	7.66			20	7.67
117	27-Apr-01	8.00	6.14	6.84			20	7.78
118	28-Apr-01	6.92	5.21	5.98			20	7.89
119	29-Apr-01	5.99	5.05	5.51			20	7.78
120	30-Apr-01	5.99	5.52	5.68			20	7.60
121	1-May-01	5.68	4.74	5.07			20	7.16
122	2-May-01	5.68	4.12	4.74			20	6.72
123	3-May-01	6.45	4.43	5.26			20	6.39
124	4-May-01	7.54	5.52	6.35			20	6.32
125	5-May-01	7.85	6.76	7.24			20	6.45
126	6-May-01	6.92	4.90	5.95			20	6.59
127	7-May-01	7.38	5.36	6.30			20	6.79
128	8-May-01	7.85	6.45	7.12			20	7.10
129	9-May-01	8.00	6.61	7.31			20	7.43
130	10-May-01	8.15	6.30	7.24			20	7.67
131	11-May-01	8.15	6.14	7.12			20	7.76
132	12-May-01	8.15	6.30	7.26			20	7.80
133	13-May-01	8.15	6.61	7.24			20	7.98
134	14-May-01	7.54	5.99	6.75			20	8.00
135	15-May-01	7.23	5.83	6.50			20	7.91
136	16-May-01	6.92	6.14	6.54			20	7.76
137	17-May-01	7.23	5.05	5.99			20	7.62
138	18-May-01	7.38	6.61	6.96			20	7.51
139	19-May-01	8.31	5.99	6.86			20	7.54
140	20-May-01	8.46	7.08	7.80			20	7.58
141	21-May-01	8.31	5.83	6.91			20	7.69
142	22-May-01	9.38	6.92	7.92			20	8.00
143	23-May-01	10.01	7.54	8.75			20	8.44
144	24-May-01	10.32	7.69	8.99			20	8.88
145	25-May-01	10.79	8.00	9.26			20	9.37
146	26-May-01	10.79	8.00	9.27			20	9.72
147	27-May-01	10.48	8.31	9.39			20	10.01
148	28-May-01	10.79	8.61	9.59			20	10.37

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	10.94	8.61	9.65			20	10.59
150	30-May-01	9.54	6.92	8.14			20	10.52
151	31-May-01	11.40	8.92	9.57			20	10.68
152	1-Jun-01	11.40	9.69	10.57			20	10.76
153	2-Jun-01	11.71	10.16	10.81			20	10.89
154	3-Jun-01	10.01	8.46	9.03			20	10.83
155	4-Jun-01	8.31	5.68	6.72			20	10.47
156	5-Jun-01	7.23	5.83	6.17			20	9.94
157	6-Jun-01	9.08	7.23	7.74			20	9.88
158	7-Jun-01	9.23	7.85	8.47			20	9.57
159	8-Jun-01	10.48	8.15	8.78			20	9.44
160	9-Jun-01	11.87	10.48	10.96			20	9.46
161	10-Jun-01	12.02	10.48	11.07			20	9.75
162	11-Jun-01	10.94	9.85	10.32			20	10.12
163	12-Jun-01	10.94	8.61	9.74			20	10.65
164	13-Jun-01	8.46	6.92	7.38			20	10.56
165	14-Jun-01	9.08	7.08	7.61			20	10.54
166	15-Jun-01	10.94	8.77	9.40			20	10.61
167	16-Jun-01	11.56	9.54	10.43			20	10.56
168	17-Jun-01	12.02	10.79	11.42			20	10.56
169	18-Jun-01	12.18	10.63	11.38			20	10.74
170	19-Jun-01	12.18	10.32	11.24			20	10.92
171	20-Jun-01	13.26	11.25	12.01			20	11.60
172	21-Jun-01	14.65	12.49	13.29			20	12.40
173	22-Jun-01	15.92	13.88	14.67			20	13.11
174	23-Jun-01	16.24	14.81	15.52			20	13.78
175	24-Jun-01	16.39	14.97	15.46			20	14.40
176	25-Jun-01	15.29	13.88	14.51			20	14.85
177	26-Jun-01	15.60	14.19	14.81			20	15.34
178	27-Jun-01	15.76	15.29	15.60			20	15.69
179	28-Jun-01	16.71	15.13	15.68			20	15.99
180	29-Jun-01	17.35	15.60	16.35			20	16.19
181	30-Jun-01	17.51	16.39	16.91			20	16.37
182	1-Jul-01	18.31	16.71	17.26			20	16.65
183	2-Jul-01	18.48	17.51	18.08			20	17.10
184	3-Jul-01	18.96	17.83	18.40			20	17.58
185	4-Jul-01	19.28	18.48	18.85			20	18.09
186	5-Jul-01	18.96	17.99	18.48			20	18.41
187	6-Jul-01	17.99	16.71	17.37			20	18.50
188	7-Jul-01	18.15	17.19	17.73			20	18.59
189	8-Jul-01	18.96	17.67	18.26			20	18.68
190	9-Jul-01	19.77	18.96	19.26			20	18.87
191	10-Jul-01	20.58	18.64	19.49			20	19.10
192	11-Jul-01	20.41	19.44	19.96			20	19.26
193	12-Jul-01	19.77	18.64	19.30			20	19.38
194	13-Jul-01	19.44	18.31	18.81			20	19.58
195	14-Jul-01	19.12	17.35	18.12			20	19.72
196	15-Jul-01	19.60	18.64	19.07			20	19.81
197	16-Jul-01	18.64	16.39	17.50			20	19.65

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	16.24	15.13	15.60			20	19.03
199	18-Jul-01	16.08	15.13	15.63			20	18.41
200	19-Jul-01	17.83	15.60	16.41			20	18.14
201	20-Jul-01	18.15	17.35	17.76			20	17.95
202	21-Jul-01	18.48	17.03	17.71			20	17.86
203	22-Jul-01	19.60	17.51	18.40			20	17.86
204	23-Jul-01	19.60	17.83	18.71			20	18.00
205	24-Jul-01	19.77	17.99	18.87			20	18.50
206	25-Jul-01	20.09	18.48	19.20			20	19.07
207	26-Jul-01	20.09	18.48	19.26			20	19.40
208	27-Jul-01	20.25	18.31	19.25			20	19.70
209	28-Jul-01	19.77	18.96	19.24			20	19.88
210	29-Jul-01	18.96	17.19	17.83			20	19.79
211	30-Jul-01	17.03	16.08	16.36			20	19.42
212	31-Jul-01	15.92	14.97	15.45			20	18.87
213	1-Aug-01	15.76	14.19	15.08			20	18.25
214	2-Aug-01	18.48	15.60	16.79			20	18.02
215	3-Aug-01	19.93	17.83	18.56			20	17.98
216	4-Aug-01	19.44	18.64	18.94			20	17.93
217	5-Aug-01	19.28	17.19	18.21			20	17.98
218	6-Aug-01	20.74	18.64	19.40			20	18.51
219	7-Aug-01	21.90	19.93	20.71			20	19.36
220	8-Aug-01	22.07	20.58	21.23			20	20.26
221	9-Aug-01	21.74	20.25	20.96			20	20.73
222	10-Aug-01	21.40	19.77	20.58			20	20.94
223	11-Aug-01	20.91	19.28	20.07			20	21.15
224	12-Aug-01	21.07	18.96	19.88			20	21.40
225	13-Aug-01	21.90	19.93	20.67			20	21.57
226	14-Aug-01	22.07	20.09	21.03			20	21.59
227	15-Aug-01	22.07	19.77	20.86			20	21.59
228	16-Aug-01	21.90	19.60	20.54			20	21.62
229	17-Aug-01	21.40	18.96	20.11			20	21.62
230	18-Aug-01	21.24	18.96	20.03			20	21.66
231	19-Aug-01	20.74	18.31	19.57			20	21.62
232	20-Aug-01	20.09	17.19	18.65			20	21.36
233	21-Aug-01	19.93	16.87	18.32			20	21.05
234	22-Aug-01	18.80	16.71	17.84			20	20.59
235	23-Aug-01	19.28	16.55	17.75			20	20.21
236	24-Aug-01	19.44	17.03	18.19			20	19.93
237	25-Aug-01	19.60	16.24	17.91			20	19.70
238	26-Aug-01	20.25	16.08	18.12			20	19.63
239	27-Aug-01	20.74	16.71	18.57			20	19.72
240	28-Aug-01	20.41	16.87	18.63			20	19.79
241	29-Aug-01	20.41	16.08	18.21			20	20.02
242	30-Aug-01	20.41	15.76	18.19			20	20.18
243	31-Aug-01	19.12	16.08	17.77			20	20.13
244	1-Sep-01	19.60	15.60	17.67			20	20.13
245	2-Sep-01	19.77	15.60	17.81			20	20.07
246	3-Sep-01	20.09	15.76	17.93			20	19.97

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	18.96	15.60	17.13			14	19.77
249	13-Sep-01	15.60	12.33	14.05			20	19.08
250	14-Sep-01	16.39	14.81	15.41			20	18.50
251	15-Sep-01	16.87	15.13	15.81			20	18.18
252	16-Sep-01	17.67	15.76	16.51			20	17.91
253	17-Sep-01	18.31	16.24	17.09			20	17.70
254	18-Sep-01	17.03	16.24	16.73			20	17.26
255	19-Sep-01	17.19	15.92	16.32			20	17.01
256	20-Sep-01	15.76	14.50	15.11			20	17.03
257	21-Sep-01	14.34	12.95	13.78			20	16.74
258	22-Sep-01	12.80	10.63	11.82			20	16.16
259	23-Sep-01	10.32	8.77	9.49			20	15.11
260	24-Sep-01	9.08	7.69	8.26			20	13.79
261	25-Sep-01	9.38	7.38	8.15			20	12.70
262	26-Sep-01	9.54	7.54	8.34			20	11.60
263	27-Sep-01	9.85	7.69	8.59			20	10.76
264	28-Sep-01	10.16	8.00	8.89			20	10.16
265	29-Sep-01	10.01	8.46	9.22			20	9.76
266	30-Sep-01	10.16	9.23	9.64			20	9.74
267	1-Oct-01	10.79	10.16	10.34			20	9.98
268	2-Oct-01	10.79	10.01	10.30			20	10.19
269	3-Oct-01	10.32	8.92	9.47			20	10.30
270	4-Oct-01	9.08	8.00	8.58			20	10.19
271	5-Oct-01	8.15	6.92	7.58			20	9.90
272	6-Oct-01	7.08	5.99	6.59			20	9.48
273	7-Oct-01	6.30	5.52	5.96			20	8.93
274	8-Oct-01	6.45	5.52	5.90			20	8.31
275	9-Oct-01	6.92	5.99	6.32			20	7.76
276	10-Oct-01	7.69	6.61	7.14			20	7.38
277	11-Oct-01	8.46	7.69	7.93			20	7.29
278	12-Oct-01	8.77	8.31	8.58			20	7.38
279	13-Oct-01	8.77	8.15	8.46			20	7.62
280	14-Oct-01	8.15	7.69	7.86			20	7.89
281	15-Oct-01	8.15	7.85	7.93			20	8.13
282	16-Oct-01	8.31	7.85	8.08			20	8.33
283	17-Oct-01	7.85	7.38	7.62			20	8.35
284	18-Oct-01	7.54	7.08	7.31			20	8.22
285	19-Oct-01	8.15	7.23	7.75			20	8.13
286	20-Oct-01	8.31	7.54	7.88			20	8.07
287	21-Oct-01	7.69	7.54	7.66			20	8.00
288	22-Oct-01	7.54	6.30	6.85			20	7.91
289	23-Oct-01	6.30	4.28	5.21			20	7.63
290	24-Oct-01	4.43	3.65	4.07			20	7.14
291	25-Oct-01	4.12	3.65	3.86			20	6.65
292	26-Oct-01	4.28	3.81	4.07			20	6.10
293	27-Oct-01	5.36	4.28	4.91			20	5.67
294	28-Oct-01	5.83	5.52	5.72			20	5.41
295	29-Oct-01	6.30	5.83	5.97			21	5.23
296	30-Oct-01	6.61	6.30	6.37			20	5.28
297	31-Oct-01	6.30	5.83	6.09			20	5.54

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msr mts per day	7-Day Average of High
298	1-Nov-01	5.83	5.52	5.78			20	5.79
299	2-Nov-01	5.36	4.12	4.80			20	5.94
300	3-Nov-01	4.12	2.86	3.49			20	5.76
301	4-Nov-01	2.86	2.55	2.72			20	5.34
302	5-Nov-01	3.03	2.71	2.91			20	4.87
303	6-Nov-01	3.34	3.03	3.14			20	4.41
304	7-Nov-01	3.34	2.55	2.97			20	3.98
305	8-Nov-01	2.55	1.60	2.18			20	3.51
306	9-Nov-01	1.76	1.29	1.48			20	3.00
307	10-Nov-01	1.44	0.49	0.95			20	2.62
308	11-Nov-01	0.65	0.49	0.55			20	2.30
309	12-Nov-01	0.65	0.33	0.53			20	1.96
310	13-Nov-01	0.65	0.33	0.41			20	1.58
311	14-Nov-01	0.33	0.16	0.31			20	1.15
312	15-Nov-01	0.49	0.16	0.30			20	0.85
313	16-Nov-01	0.49	0.33	0.39			20	0.67
314	17-Nov-01	0.49	0.16	0.33			20	0.54
315	18-Nov-01	0.49	0.16	0.27			20	0.51
316	19-Nov-01	0.16	0.16	0.16			20	0.44
317	20-Nov-01	0.16	0.16	0.16			20	0.37
318	21-Nov-01	0.16	0.16	0.16			20	0.35
319	22-Nov-01	0.16	0.16	0.16			20	0.30
320	23-Nov-01	0.16	0.16	0.16			20	0.25
321	24-Nov-01	0.16	0.16	0.16			20	0.21
322	25-Nov-01	0.49	0.16	0.32			20	0.21
323	26-Nov-01	0.49	0.16	0.39			20	0.25
324	27-Nov-01	0.49	0.16	0.33			20	0.30
325	28-Nov-01	0.49	0.33	0.39			20	0.35
326	29-Nov-01	0.49	0.16	0.26			20	0.40
327	30-Nov-01	0.65	0.33	0.49			20	0.47
328	1-Dec-01	0.65	0.49	0.59			20	0.54
329	2-Dec-01	0.49	0.16	0.33			20	0.54
330	3-Dec-01	0.81	0.49	0.61			20	0.58
331	4-Dec-01	1.13	0.65	0.91			20	0.67
332	5-Dec-01	1.13	0.96	1.04			20	0.76
333	6-Dec-01	1.29	0.81	1.05			20	0.88
334	7-Dec-01	0.81	0.49	0.63			20	0.90
335	8-Dec-01	0.81	0.65	0.68			20	0.92
336	9-Dec-01	0.65	0.49	0.55			20	0.95
337	10-Dec-01	0.81	0.49	0.71			20	0.95
338	11-Dec-01	0.49	0.16	0.28			20	0.86
339	12-Dec-01	0.33	0.16	0.24			20	0.74
340	13-Dec-01	0.16	0.16	0.16			20	0.58
341	14-Dec-01	0.16	0.16	0.16			20	0.49
342	15-Dec-01	0.16	0.16	0.16			20	0.39
343	16-Dec-01	0.33	0.16	0.31			20	0.35
344	17-Dec-01	0.33	0.33	0.33			20	0.28
345	18-Dec-01	0.33	0.33	0.33			20	0.26
346	19-Dec-01	0.33	0.16	0.32			20	0.26
347	20-Dec-01	0.33	0.16	0.28			20	0.28
348	21-Dec-01	0.16	0.16	0.16			20	0.28

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Pinchot Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060302
HUC4 Name: Lower Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 567 M
Waterbody ID Number: 22

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.08

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msr mts per day	7-Day Average of High
349	22-Dec-01	0.16	0.16	0.16			20	0.28
350	23-Dec-01	0.16	0.16	0.16			20	0.26
351	24-Dec-01	0.33	0.16	0.28			20	0.26
352	25-Dec-01	0.33	0.33	0.33			20	0.26
353	26-Dec-01	0.49	0.33	0.34			20	0.28
354	27-Dec-01	0.49	0.33	0.39			20	0.30
355	28-Dec-01	0.65	0.33	0.49			20	0.37
356	29-Dec-01	0.49	0.16	0.34			20	0.42
357	30-Dec-01	0.65	0.33	0.47			20	0.49
358	31-Dec-01	0.81	0.65	0.71			20	0.56

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
1	1-Jan-01	0.00	0.00	0.00			20	
2	2-Jan-01	0.00	0.00	0.00			20	
3	3-Jan-01	0.00	0.00	0.00			20	
4	4-Jan-01	0.00	0.00	0.00			20	
5	5-Jan-01	0.00	0.00	0.00			20	
6	6-Jan-01	0.00	0.00	0.00			20	
7	7-Jan-01	0.00	0.00	0.00			20	0.00
8	8-Jan-01	0.00	0.00	0.00			20	0.00
9	9-Jan-01	0.00	0.00	0.00			20	0.00
10	10-Jan-01	0.00	0.00	0.00			20	0.00
11	11-Jan-01	0.00	0.00	0.00			20	0.00
12	12-Jan-01	0.00	0.00	0.00			20	0.00
13	13-Jan-01	0.00	0.00	0.00			20	0.00
14	14-Jan-01	0.00	0.00	0.00			20	0.00
15	15-Jan-01	0.00	0.00	0.00			20	0.00
16	16-Jan-01	0.00	0.00	0.00			20	0.00
17	17-Jan-01	0.00	0.00	0.00			20	0.00
18	18-Jan-01	0.00	0.00	0.00			20	0.00
19	19-Jan-01	0.00	0.00	0.00			20	0.00
20	20-Jan-01	0.00	0.00	0.00			20	0.00
21	21-Jan-01	0.00	0.00	0.00			20	0.00
22	22-Jan-01	0.00	0.00	0.00			20	0.00
23	23-Jan-01	0.00	0.00	0.00			20	0.00
24	24-Jan-01	0.00	0.00	0.00			20	0.00
25	25-Jan-01	0.00	0.00	0.00			20	0.00
26	26-Jan-01	0.00	0.00	0.00			20	0.00
27	27-Jan-01	0.00	0.00	0.00			20	0.00
28	28-Jan-01	0.00	0.00	0.00			20	0.00
29	29-Jan-01	0.00	0.00	0.00			20	0.00
30	30-Jan-01	0.00	0.00	0.00			20	0.00
31	31-Jan-01	0.00	0.00	0.00			20	0.00
32	1-Feb-01	0.00	0.00	0.00			20	0.00
33	2-Feb-01	0.00	0.00	0.00			20	0.00
34	3-Feb-01	0.00	0.00	0.00			20	0.00
35	4-Feb-01	0.00	0.00	0.00			20	0.00
36	5-Feb-01	0.00	0.00	0.00			20	0.00
37	6-Feb-01	0.00	0.00	0.00			20	0.00
38	7-Feb-01	0.00	0.00	0.00			20	0.00
39	8-Feb-01	0.00	0.00	0.00			20	0.00
40	9-Feb-01	0.00	0.00	0.00			20	0.00
41	10-Feb-01	0.00	0.00	0.00			20	0.00
42	11-Feb-01	0.00	0.00	0.00			20	0.00
43	12-Feb-01	0.00	0.00	0.00			20	0.00
44	13-Feb-01	0.00	0.00	0.00			20	0.00
45	14-Feb-01	0.00	0.00	0.00			20	0.00
46	15-Feb-01	0.00	0.00	0.00			20	0.00
47	16-Feb-01	0.00	0.00	0.00			20	0.00

Idaho Cold Water Aquatic Life
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
22 °C Instantaneous	0	0%	
19 °C Average	3	3%	
Days Evaluated & Date Range	92	22-Jun	21-Sep

Idaho Salmonid Spawning
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Instantaneous Spring	26	28%	
9 °C Average Spring	39	42%	
Spring Days Eval'd w/in Dates	92	15-Apr	15-Jul
13 °C Instantaneous Fall	43	46%	
9 °C Average Fall	50	54%	
Fall Days Eval'd w/in Dates	93	15-Aug	15-Nov
13 °C Instantaneous Total *	69	37%	
9 °C Average Total *	89	48%	
Tot Days Eval'd w/in Both Dates *	185		

* If spring & fall dates overlap double counting may occur.

Idaho Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
13 °C Juvnl Rearing MWMT (J)	72	78%	
Juvenile Days Eval'd w/in Dates	92	1-Jun	31-Aug
9 °C Spawning Daily Ave (S)	33	54%	
Spawning Days Eval'd w/in Dates	61	1-Sep	31-Oct

NOTES

Comments: Combined data from two deployments. Stream is a priori natural. Monitored as state Outstanding Resource Water nominee. Less than 10% exceedance of Idaho's cold water aquatic life criteria during critical summer period.

Print Date: 5/19/2004

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
48	17-Feb-01	0.00	0.00	0.00			20	0.00
49	18-Feb-01	0.00	0.00	0.00			20	0.00
50	19-Feb-01	0.00	0.00	0.00			20	0.00
51	20-Feb-01	0.00	0.00	0.00			20	0.00
52	21-Feb-01	0.00	0.00	0.00			20	0.00
53	22-Feb-01	0.00	0.00	0.00			20	0.00
54	23-Feb-01	0.00	0.00	0.00			20	0.00
55	24-Feb-01	0.00	0.00	0.00			20	0.00
56	25-Feb-01	0.00	0.00	0.00			20	0.00
57	26-Feb-01	0.00	0.00	0.00			20	0.00
58	27-Feb-01	0.00	0.00	0.00			20	0.00
59	28-Feb-01	0.00	0.00	0.00			20	0.00
60	1-Mar-01	0.00	0.00	0.00			20	0.00
61	2-Mar-01	0.00	0.00	0.00			20	0.00
62	3-Mar-01	0.00	0.00	0.00			20	0.00
63	4-Mar-01	0.00	0.00	0.00			20	0.00
64	5-Mar-01	0.00	0.00	0.00			20	0.00
65	6-Mar-01	0.16	0.00	0.06			20	0.02
66	7-Mar-01	0.81	0.00	0.39			20	0.14
67	8-Mar-01	1.12	0.00	0.54			20	0.30
68	9-Mar-01	1.12	0.48	0.77			20	0.46
69	10-Mar-01	2.23	0.65	1.34			20	0.78
70	11-Mar-01	1.92	1.44	1.72			20	1.05
71	12-Mar-01	2.71	1.60	2.07			20	1.44
72	13-Mar-01	3.50	1.92	2.69			20	1.92
73	14-Mar-01	3.03	1.76	2.39			20	2.23
74	15-Mar-01	2.55	0.65	1.76			20	2.44
75	16-Mar-01	2.71	1.60	2.17			20	2.66
76	17-Mar-01	3.03	1.44	2.21			20	2.78
77	18-Mar-01	4.12	2.40	3.17			20	3.09
78	19-Mar-01	3.81	2.87	3.36			20	3.25
79	20-Mar-01	3.97	1.44	2.88			20	3.32
80	21-Mar-01	3.81	1.44	2.76			20	3.43
81	22-Mar-01	3.97	1.28	2.72			20	3.63
82	23-Mar-01	4.59	1.60	3.13			20	3.90
83	24-Mar-01	5.06	2.71	3.84			20	4.19
84	25-Mar-01	3.97	2.55	3.06			20	4.17
85	26-Mar-01	3.81	2.55	3.10			20	4.17
86	27-Mar-01	4.59	2.40	3.42			20	4.26
87	28-Mar-01	4.90	3.35	4.10			20	4.41
88	29-Mar-01	5.68	3.66	4.64			20	4.66
89	30-Mar-01	5.21	3.97	4.54			20	4.75
90	31-Mar-01	4.43	2.71	3.49			20	4.66
91	1-Apr-01	5.83	3.18	4.25			19	4.92
92	2-Apr-01	5.52	3.66	4.15			20	5.17
93	3-Apr-01	4.59	2.40	3.43			20	5.17
94	4-Apr-01	4.90	3.03	3.90			20	5.17
95	5-Apr-01	4.90	2.23	3.71			20	5.05
96	6-Apr-01	4.90	2.71	3.71			20	5.01
97	7-Apr-01	4.43	3.35	4.01			20	5.01

STATISTICS	
Maximum Daily Maximum (MDM)	21.9 ºC
Maximum 7-Day Maximum (MWM)	20.6 ºC
Maximum Daily Average (MDA)	19.8 ºC
Maximum 7-Day Average (MWA)	18.8 ºC
Mean Daily Maximum	7.9 ºC
Mean Daily Average	6.9 ºC
Mean Daily Minimum	5.9 ºC
Minimum 7-Day Minimum	0.0 ºC
Minimum Daily Minimum	0.0 ºC
Mean of all Data	6.9 ºC

EPA Bull Trout
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
10 °C 7-Day Avg of Daily Max	116	95%	
Nmbr of 7-Day Avg's w/in Dates	122	1-Jun	30-Sep

Seasonal Cold Water
Criteria Exceedance Summary

Criteria	Exceedance Counts Nmbr	Prcnt	
26 °C Instantaneous	0	0%	
23 °C Average	0	0%	
Days Evaluated and Date Range	92	22-Jun	21-Sep

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msrmts per day	7-Day Average of High
98	8-Apr-01	4.28	2.71	3.41			20	4.79
99	9-Apr-01	4.12	2.55	3.36			20	4.59
100	10-Apr-01	4.75	2.71	3.72			20	4.61
101	11-Apr-01	4.59	3.18	3.90			20	4.57
102	12-Apr-01	4.59	3.03	3.76			20	4.52
103	13-Apr-01	4.43	3.03	3.77			20	4.46
104	14-Apr-01	5.37	3.03	4.11			20	4.59
105	15-Apr-01	6.15	2.71	4.46			20	4.86
106	16-Apr-01	6.46	3.50	5.07			20	5.19
107	17-Apr-01	8.16	4.43	6.26			20	5.68
108	18-Apr-01	7.86	5.37	6.50			20	6.15
109	19-Apr-01	6.93	5.06	6.00			20	6.48
110	20-Apr-01	5.83	3.81	4.75			20	6.68
111	21-Apr-01	5.83	3.97	4.88			20	6.75
112	22-Apr-01	6.15	3.97	5.07			20	6.75
113	23-Apr-01	6.93	4.90	5.82			20	6.81
114	24-Apr-01	9.39	5.52	7.17			20	6.99
115	25-Apr-01	9.08	5.52	7.36			20	7.16
116	26-Apr-01	8.16	5.06	6.75			20	7.34
117	27-Apr-01	7.55	4.90	6.11			20	7.58
118	28-Apr-01	6.15	4.12	5.14			20	7.63
119	29-Apr-01	5.68	3.81	4.77			20	7.56
120	30-Apr-01	5.52	4.59	5.10			20	7.36
121	1-May-01	5.21	3.50	4.29			20	6.76
122	2-May-01	5.52	3.03	4.15			20	6.26
123	3-May-01	7.08	3.03	4.83			20	6.10
124	4-May-01	8.16	3.97	5.96			20	6.19
125	5-May-01	7.40	5.52	6.28			20	6.37
126	6-May-01	7.24	3.35	5.18			20	6.59
127	7-May-01	8.01	3.81	5.85			20	6.95
128	8-May-01	8.16	5.06	6.76			20	7.37
129	9-May-01	8.01	5.21	6.80			20	7.72
130	10-May-01	8.32	5.06	6.71			20	7.90
131	11-May-01	8.32	4.59	6.50			20	7.92
132	12-May-01	8.77	5.06	6.91			20	8.12
133	13-May-01	8.16	5.83	6.84			20	8.25
134	14-May-01	7.24	5.21	6.31			20	8.14
135	15-May-01	6.93	5.52	6.22			20	7.96
136	16-May-01	6.62	5.68	6.08			20	7.77
137	17-May-01	7.40	3.97	5.62			20	7.63
138	18-May-01	7.70	5.83	6.75			20	7.55
139	19-May-01	8.47	4.90	6.67			20	7.50
140	20-May-01	8.32	6.31	7.31			20	7.53
141	21-May-01	8.62	4.28	6.42			20	7.72
142	22-May-01	10.17	5.68	7.82			20	8.19
143	23-May-01	10.80	6.31	8.51			20	8.78
144	24-May-01	9.86	6.62	8.44			20	9.13
145	25-May-01	10.33	7.24	8.75			20	9.51
146	26-May-01	10.48	7.08	8.75			20	9.80
147	27-May-01	9.86	7.70	8.92			20	10.02
148	28-May-01	10.80	7.40	9.12			20	10.33

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
149	29-May-01	10.33	7.55	8.86			20	10.35
150	30-May-01	9.55	5.37	7.39			20	10.17
151	31-May-01	12.34	8.01	9.78			20	10.53
152	1-Jun-01	11.56	8.16	10.05			20	10.70
153	2-Jun-01	11.41	9.24	10.25			20	10.84
154	3-Jun-01	9.86	6.77	7.98			20	10.84
155	4-Jun-01	6.46	4.28	5.18			20	10.22
156	5-Jun-01	7.08	5.06	5.94			20	9.75
157	6-Jun-01	9.55	6.46	7.64			20	9.75
158	7-Jun-01	8.93	6.77	7.72			20	9.26
159	8-Jun-01	11.26	7.24	9.05			20	9.22
160	9-Jun-01	12.18	9.24	10.62			20	9.33
161	10-Jun-01	11.41	9.08	10.34			20	9.55
162	11-Jun-01	10.80	8.93	9.99			20	10.17
163	12-Jun-01	9.86	6.93	8.33			20	10.57
164	13-Jun-01	6.77	5.37	6.07			20	10.17
165	14-Jun-01	8.47	6.15	7.17			20	10.11
166	15-Jun-01	11.72	7.40	9.08			20	10.17
167	16-Jun-01	12.50	7.70	9.96			20	10.22
168	17-Jun-01	12.50	9.55	11.10			20	10.37
169	18-Jun-01	12.65	8.93	10.77			20	10.64
170	19-Jun-01	12.96	8.16	10.43			20	11.08
171	20-Jun-01	14.04	9.08	11.35			20	12.12
172	21-Jun-01	15.61	10.48	12.81	J		20	13.14
173	22-Jun-01	16.72	11.87	14.06	J		20	13.85
174	23-Jun-01	16.72	12.81	14.66	J		20	14.46
175	24-Jun-01	15.46	12.81	14.23	J		20	14.88
176	25-Jun-01	15.30	11.72	13.36	J		20	15.26
177	26-Jun-01	16.25	12.18	13.97	J		20	15.73
178	27-Jun-01	16.09	12.96	14.40	J		20	16.02
179	28-Jun-01	16.88	13.27	14.86	J		20	16.20
180	29-Jun-01	18.16	12.96	15.36	J		20	16.41
181	30-Jun-01	17.52	13.88	15.76	J		20	16.52
182	1-Jul-01	19.30	14.20	16.56	J		20	17.07
183	2-Jul-01	19.78	14.82	17.24	J		20	17.71
184	3-Jul-01	20.10	15.14	17.63	J		20	18.26
185	4-Jul-01	18.97	16.09	17.12	J		20	18.67
186	5-Jul-01	17.20	15.61	16.23	J		20	18.72
187	6-Jul-01	18.81	13.88	16.06	J		20	18.81
188	7-Jul-01	17.68	14.35	16.28	J		20	18.83
189	8-Jul-01	18.16	15.30	16.79	J		20	18.67
190	9-Jul-01	19.13	15.93	17.33	J		20	18.58
191	10-Jul-01	21.08	16.25	18.56	J		20	18.72
192	11-Jul-01	19.94	16.09	18.01	J		20	18.86
193	12-Jul-01	18.97	15.93	17.45	J		20	19.11
194	13-Jul-01	18.00	15.14	16.50	J		20	18.99
195	14-Jul-01	19.62	14.35	16.87	J		20	19.27
196	15-Jul-01	19.13	16.41	17.32	J		20	19.41
197	16-Jul-01	16.25	14.20	14.86	J		20	19.00

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	BullExcd S-spawn	Nbr of Msrmts per day	7-Day Average of High
198	17-Jul-01	15.77	12.34	13.96	J		20	18.24
199	18-Jul-01	16.25	13.12	14.56	J		20	17.71
200	19-Jul-01	18.48	13.27	15.80	J		20	17.64
201	20-Jul-01	18.48	14.82	16.76	J		20	17.71
202	21-Jul-01	18.81	14.82	16.89	J		20	17.60
203	22-Jul-01	19.62	15.30	17.59	J		20	17.67
204	23-Jul-01	19.62	14.82	17.35	J		20	18.15
205	24-Jul-01	19.30	14.82	17.30	J		20	18.65
206	25-Jul-01	20.26	15.61	18.03	J		20	19.22
207	26-Jul-01	20.26	15.61	18.13	J		20	19.48
208	27-Jul-01	20.42	15.46	18.15	J		20	19.76
209	28-Jul-01	19.30	16.09	17.73	J		20	19.83
210	29-Jul-01	17.52	14.51	16.22	J		20	19.53
211	30-Jul-01	15.93	14.04	14.64	J		20	19.00
212	31-Jul-01	14.20	12.18	13.18	J		20	18.27
213	1-Aug-01	16.41	11.41	13.64	J		20	17.72
214	2-Aug-01	18.81	13.58	16.03	J		20	17.51
215	3-Aug-01	18.48	14.98	16.98	J		20	17.24
216	4-Aug-01	18.65	15.61	17.13	J		20	17.14
217	5-Aug-01	19.94	14.98	17.50	J		20	17.49
218	6-Aug-01	20.75	15.93	18.51	J		20	18.18
219	7-Aug-01	21.25	16.88	19.23	J		20	19.18
220	8-Aug-01	21.92	17.52	19.81	J		20	19.97
221	9-Aug-01	20.26	16.72	18.80	J		20	20.18
222	10-Aug-01	20.42	16.25	18.44	J		20	20.46
223	11-Aug-01	19.46	16.09	18.07	J		20	20.57
224	12-Aug-01	20.42	15.77	18.11	J		20	20.64
225	13-Aug-01	20.59	17.68	19.31	J		20	20.62
226	14-Aug-01	20.75	17.04	18.97	J		20	20.55
227	15-Aug-01	20.59	16.57	18.80	J		20	20.36
228	16-Aug-01	20.42	16.25	18.51	J		20	20.38
229	17-Aug-01	20.10	16.09	18.27	J		20	20.33
230	18-Aug-01	20.59	17.04	18.79	J		20	20.49
231	19-Aug-01	19.46	15.93	17.93	J		20	20.36
232	20-Aug-01	18.65	14.82	16.89	J		20	20.08
233	21-Aug-01	18.65	14.66	16.70	J		20	19.78
234	22-Aug-01	17.84	14.51	16.48	J		20	19.39
235	23-Aug-01	18.16	14.98	16.66	J		20	19.06
236	24-Aug-01	18.97	15.77	17.13	J		20	18.90
237	25-Aug-01	18.65	14.51	16.60	J		20	18.63
238	26-Aug-01	18.97	14.82	16.90	J		20	18.56
239	27-Aug-01	19.46	15.46	17.40	J		20	18.67
240	28-Aug-01	19.28	15.77	17.55	J		20	18.76
241	29-Aug-01	18.96	14.49	16.81	J		20	18.92
242	30-Aug-01	18.80	14.49	16.65	J		20	19.01
243	31-Aug-01	18.80	15.13	16.97	J		20	18.99
244	1-Sep-01	18.31	14.81	16.57		S	20	18.94
245	2-Sep-01	18.31	14.81	16.60		S	20	18.85
246	3-Sep-01	18.96	15.13	17.00		S	20	18.77

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl S-spawn		Nbr of Msrmts per day	7-Day Average of High
247	4-Sep-01	17.03	15.13	16.36		S	20	18.45
248	5-Sep-01	17.51	14.81	16.06		S	20	18.25
249	6-Sep-01	15.29	12.95	14.32		S	20	17.74
250	7-Sep-01	13.87	11.86	12.62		S	20	17.04
251	8-Sep-01	13.26	9.53	11.44		S	20	16.32
252	9-Sep-01	13.56	9.69	11.67		S	20	15.64
253	10-Sep-01	14.49	10.78	12.58		S	20	15.00
254	11-Sep-01	15.13	11.55	13.33		S	20	14.73
255	12-Sep-01	14.97	12.17	13.65		S	20	14.37
256	13-Sep-01	16.24	13.87	14.99		S	20	14.50
257	14-Sep-01	17.67	14.33	15.86		S	20	15.05
258	15-Sep-01	16.71	13.87	15.43		S	20	15.54
259	16-Sep-01	16.24	13.26	14.82		S	20	15.92
260	17-Sep-01	16.08	13.56	14.80		S	20	16.15
261	18-Sep-01	15.29	12.32	13.99		S	20	16.17
262	19-Sep-01	14.18	11.70	12.97		S	20	16.06
263	20-Sep-01	12.95	10.31	11.78		S	20	15.59
264	21-Sep-01	12.48	10.16	11.32		S	20	14.85
265	22-Sep-01	12.48	9.53	11.05		S	20	14.24
266	23-Sep-01	13.26	10.31	11.78		S	20	13.82
267	24-Sep-01	13.87	10.93	12.31		S	20	13.50
268	25-Sep-01	13.56	11.23	12.52		S	20	13.25
269	26-Sep-01	14.02	11.55	12.83		S	20	13.23
270	27-Sep-01	13.56	11.39	12.57		S	20	13.32
271	28-Sep-01	13.71	11.86	12.76		S	20	13.49
272	29-Sep-01	13.10	11.08	12.25		S	20	13.58
273	30-Sep-01	12.32	10.31	11.45		S	20	13.45
274	1-Oct-01	11.70	9.53	10.77		S	20	13.14
275	2-Oct-01	11.23	9.53	10.42		S	20	12.81
276	3-Oct-01	10.47	8.61	9.64		S	20	12.30
277	4-Oct-01	9.38	7.52	8.60			20	11.70
278	5-Oct-01	7.99	5.82	6.98			20	10.88
279	6-Oct-01	7.21	5.04	6.19			20	10.04
280	7-Oct-01	7.99	5.97	6.98			20	9.42
281	8-Oct-01	8.91	7.52	8.18			20	9.03
282	9-Oct-01	8.14	7.21	7.74			20	8.58
283	10-Oct-01	7.99	5.97	7.01			20	8.23
284	11-Oct-01	7.68	7.06	7.34			20	7.99
285	12-Oct-01	7.06	5.82	6.34			20	7.85
286	13-Oct-01	7.37	5.97	6.57			20	7.88
287	14-Oct-01	7.21	6.75	6.95			20	7.77
288	15-Oct-01	7.21	5.66	6.38			20	7.52
289	16-Oct-01	6.44	4.41	5.57			20	7.28
290	17-Oct-01	7.37	6.13	6.63			20	7.19
291	18-Oct-01	6.60	4.73	5.58			20	7.04
292	19-Oct-01	6.91	5.66	6.17			20	7.02
293	20-Oct-01	7.68	6.91	7.31			20	7.06
294	21-Oct-01	7.21	5.04	5.95			20	7.06
295	22-Oct-01	6.44	5.66	6.07			20	6.95
296	23-Oct-01	6.44	5.66	5.94			20	6.95

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	Bull juvnl	Excd S-spawn	Nbr of Msrmts per day	7-Day Average of High
297	24-Oct-01	5.35	4.26	4.67			20	6.66
298	25-Oct-01	4.73	3.63	4.06			20	6.39
299	26-Oct-01	3.79	2.37	2.99			20	5.95
300	27-Oct-01	3.63	1.90	2.84			20	5.37
301	28-Oct-01	5.97	3.79	4.99			21	5.19
302	29-Oct-01	6.44	5.51	5.94			20	5.19
303	30-Oct-01	6.91	6.28	6.57			20	5.26
304	31-Oct-01	7.21	6.44	6.87			20	5.53
305	1-Nov-01	6.75	5.82	6.32			20	5.81
306	2-Nov-01	6.91	5.82	6.32			20	6.26
307	3-Nov-01	6.28	5.04	5.49			20	6.64
308	4-Nov-01	4.73	3.16	3.65			20	6.46
309	5-Nov-01	4.41	2.53	3.22			20	6.17
310	6-Nov-01	5.35	3.79	4.56			20	5.95
311	7-Nov-01	5.04	3.16	4.12			20	5.64
312	8-Nov-01	2.85	1.10	1.59			20	5.08
313	9-Nov-01	1.10	0.14	0.48			20	4.25
314	10-Nov-01	0.62	-0.02	0.15			20	3.44
315	11-Nov-01	0.78	-0.02	0.22			20	2.88
316	12-Nov-01	1.74	0.62	1.08			20	2.50
317	13-Nov-01	2.69	1.42	2.00			20	2.12
318	14-Nov-01	3.63	2.53	3.02			20	1.92
319	15-Nov-01	3.32	2.53	2.97			20	1.98
320	16-Nov-01	3.95	2.69	3.35			20	2.39
321	17-Nov-01	4.26	3.63	3.93			20	2.91
322	18-Nov-01	4.73	4.10	4.34			20	3.47
323	19-Nov-01	3.95	2.69	3.18			20	3.79
324	20-Nov-01	3.95	2.85	3.34			20	3.97
325	21-Nov-01	4.88	3.95	4.32			20	4.15
326	22-Nov-01	4.57	3.95	4.27			20	4.33
327	23-Nov-01	4.41	3.95	4.22			20	4.39
328	24-Nov-01	3.79	2.22	2.81			20	4.33
329	25-Nov-01	2.22	1.58	1.97			20	3.97
330	26-Nov-01	2.06	1.58	1.83			20	3.70
331	27-Nov-01	1.90	0.78	1.41			20	3.40
332	28-Nov-01	0.62	-0.02	0.03			20	2.80
333	29-Nov-01	0.14	-0.02	0.00			20	2.16
334	30-Nov-01	0.46	-0.02	0.15			20	1.60
335	1-Dec-01	0.78	0.14	0.45			20	1.17
336	2-Dec-01	0.78	-0.02	0.45			20	0.96
337	3-Dec-01	1.10	0.30	0.74			20	0.83
338	4-Dec-01	0.78	-0.02	0.13			20	0.67
339	5-Dec-01	-0.02	-0.02	-0.02			20	0.57
340	6-Dec-01	-0.02	-0.02	-0.02			20	0.55
341	7-Dec-01	0.30	-0.02	0.02			20	0.53
342	8-Dec-01	-0.02	-0.02	-0.02			20	0.41
343	9-Dec-01	-0.02	-0.02	-0.02			20	0.30
344	10-Dec-01	-0.02	-0.02	-0.02			20	0.14
345	11-Dec-01	-0.02	-0.02	-0.02			20	0.03
346	12-Dec-01	-0.02	-0.02	-0.02			20	0.03
347	13-Dec-01	-0.02	-0.02	-0.02			20	0.03

DEQ Summary of Temperature Data

Data Source: DEQ
Water Body: Selway River abv Running Cr.
Data Collection Site: upstream end of reach
Data Period: 1/1/01 - 12/31/01

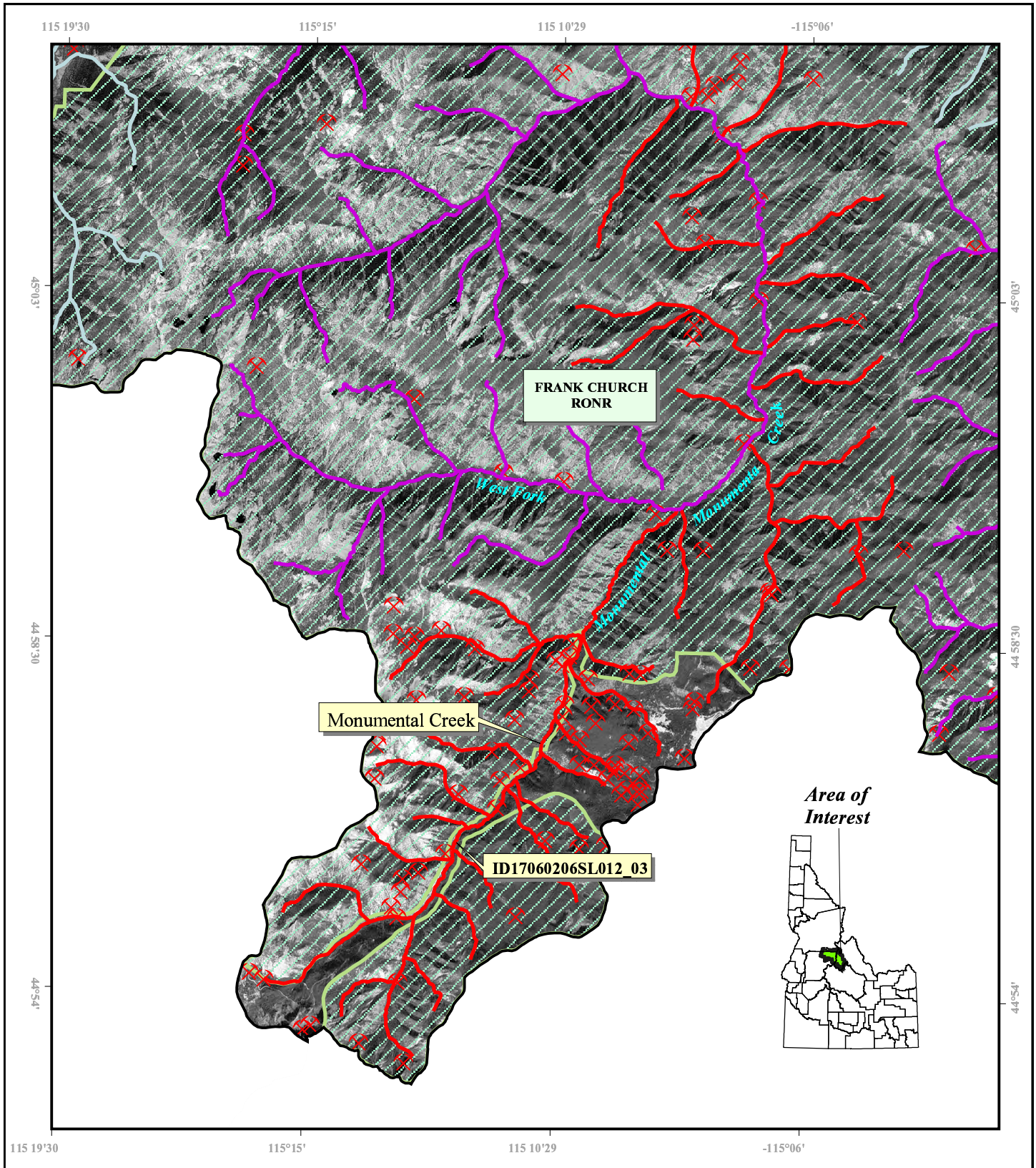
HUC4 Number: 17060301
HUC4 Name: Upper Selway
North of the Salmon Clearwater Divide
Idaho Bull Trout Elevation: 849 M
Waterbody ID Number: 4

Import File : ... Selway 2001\Selway abv Running Cr 2001.txt
Calibration Factor : 0.06

Dbase Day Count	Date of Measurement	High Temp	Low Temp	Average Temp	BullExcd J juvnl	S-spawn	Nbr of Msr mts per day	7-Day Average of High
348	14-Dec-01	-0.02	-0.02	-0.02			20	-0.02
349	15-Dec-01	-0.02	-0.02	-0.02			20	-0.02
350	16-Dec-01	-0.02	-0.02	-0.02			20	-0.02
351	17-Dec-01	-0.02	-0.02	-0.02			20	-0.02
352	18-Dec-01	-0.02	-0.02	-0.02			20	-0.02
353	19-Dec-01	-0.02	-0.02	-0.02			20	-0.02
354	20-Dec-01	-0.02	-0.02	-0.02			20	-0.02
355	21-Dec-01	-0.02	-0.02	-0.02			20	-0.02
356	22-Dec-01	-0.02	-0.02	-0.02			20	-0.02
357	23-Dec-01	-0.02	-0.02	-0.02			20	-0.02
358	24-Dec-01	-0.02	-0.02	-0.02			20	-0.02
359	25-Dec-01	-0.02	-0.02	-0.02			20	-0.02
360	26-Dec-01	0.14	-0.02	0.01			20	0.00
361	27-Dec-01	-0.02	-0.02	-0.02			20	0.00
362	28-Dec-01	-0.02	-0.02	-0.02			20	0.00
363	29-Dec-01	-0.02	-0.02	-0.02			20	0.00
364	30-Dec-01	-0.02	-0.02	-0.02			20	0.00
365	31-Dec-01	-0.02	-0.02	-0.02			20	0.00

Appendix B.

Monumental Creek
Lower Middle Fork Salmon



Monumental Creek
Lower Middle Fork Salmon
17060206

Legend

DRAFT-2002 Assessments (305(b)

- Full Support
- Not Assessed
- Not Supporting
- Wilderness
- Wilderness
- Mines (IDL)

N

0 1 2 Kilometers

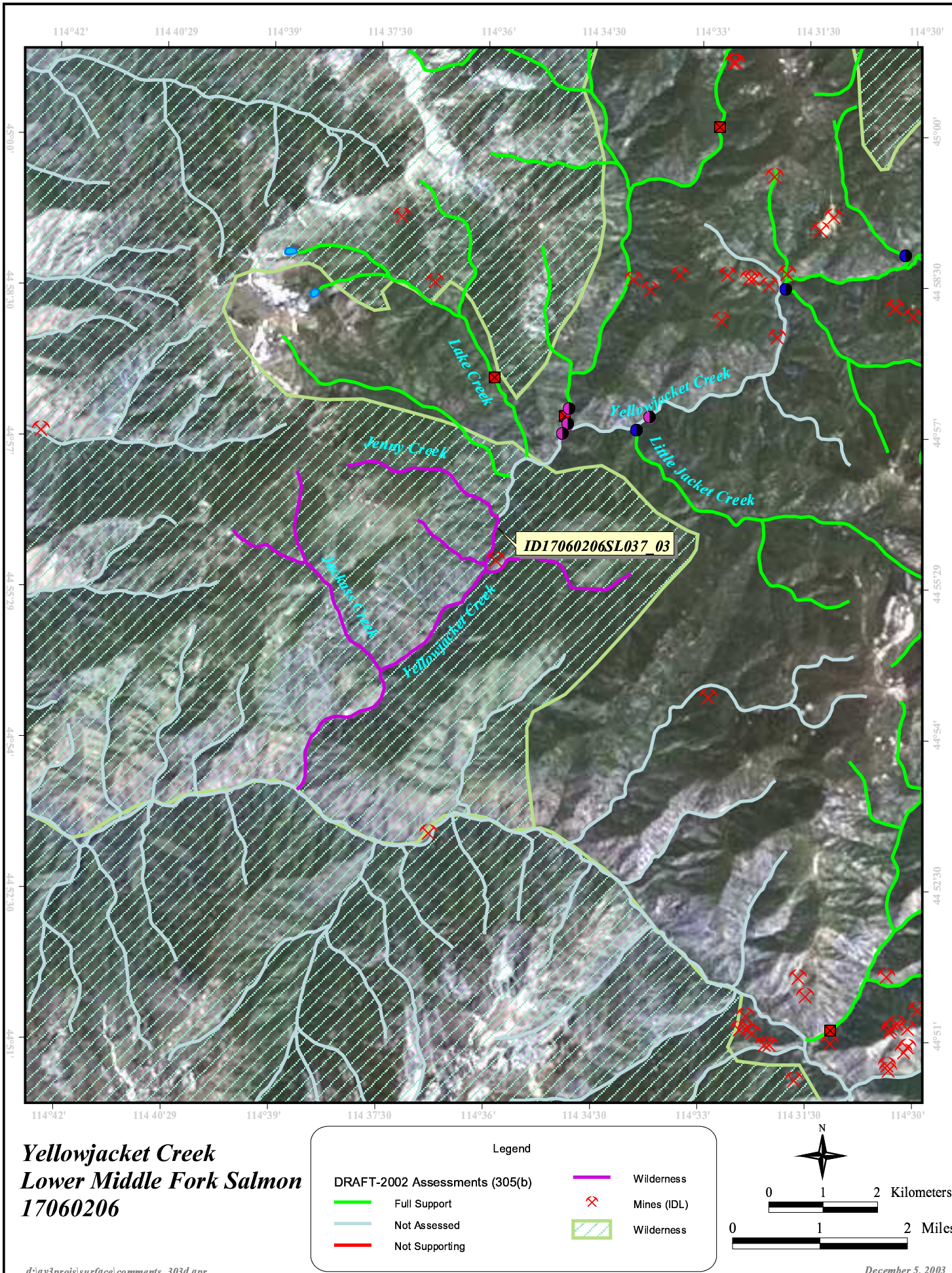
0 1 2 Miles

d:\av3projs\surface\comments_303d.apr

December 5, 2003

Appendix C.

Yellowjacket Creek
Lower Middle Fork Salmon



Yellowjacket Creek
Lower Middle Fork Salmon
17060206

d:\av3projs\surface\comments_303d.apr

December 5, 2003