1998 303(d) List

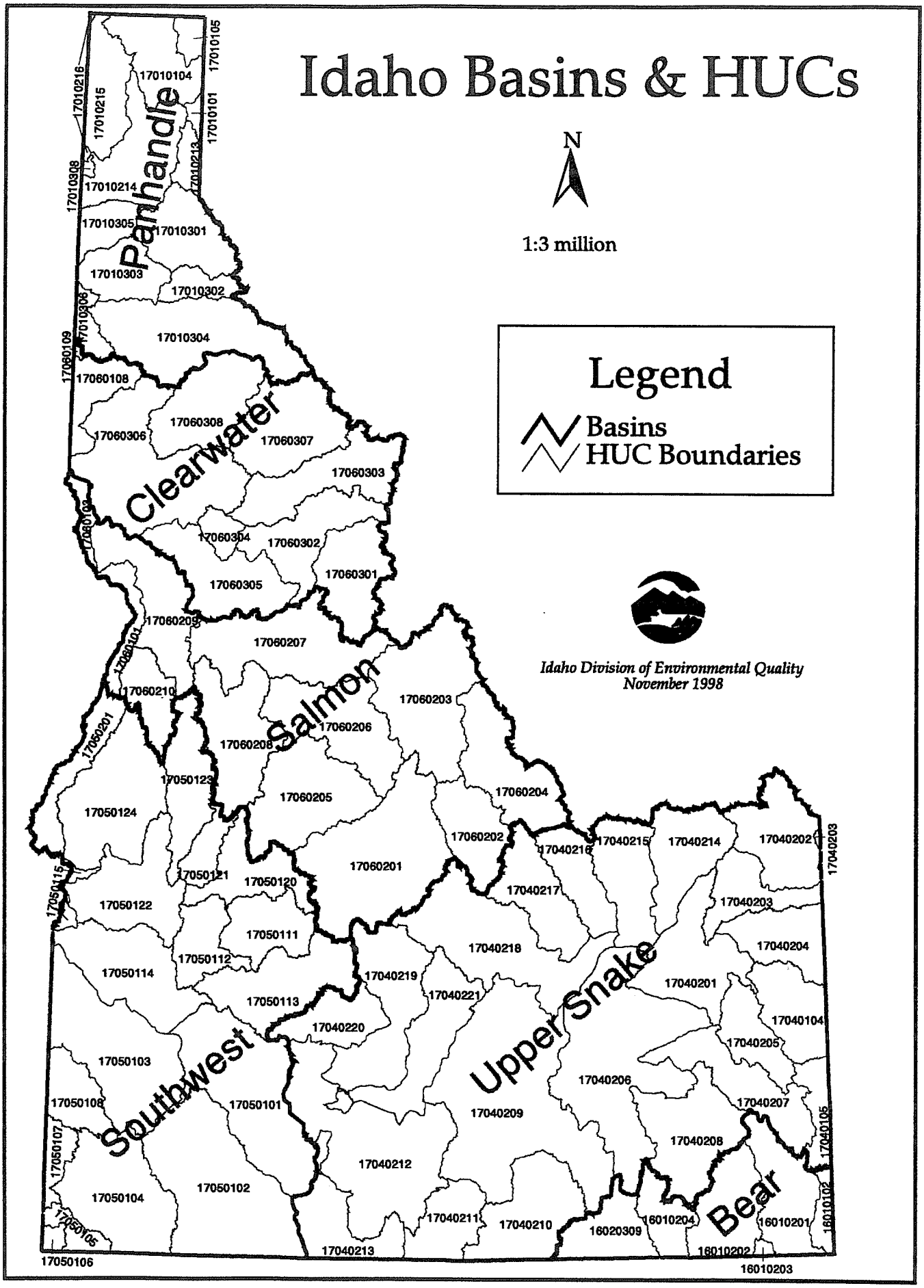
State of Idaho
Division of Environmental Quality

Idaho Division of Environmental Quality
1998 303(d) Package

303(D) GLOSSARY OF ABBREVIATIONS AND ACRONYMS USED

303(d)	Section of the Clean Water Act requiring states to list water quality limited waters
ABI	Algae Biotic Index
APA	Administrative Procedures Act
BAG(s)	Basin Advisory Group(s)
BLM	Bureau of Land Management
BNF	Boise National Forest
BPJ	Best Professional Judgment
BURP	Beneficial Use Reconnaissance Program
CFR	Code of Federal Regulation
CIHD	Committee for Idaho's High Desert
CWA	Clean Water Act
CWB	Cold Water Biota
DEQ	Division of Environmental Quality
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
FS	Full Support
HFWC	Henry's Fork Watershed Council
HI	Habitat Index
IBI	Index of Biological Integrity
ICL	Idaho Conservation League
IDFG	Idaho Department of Fish and Game
IDL	Idaho Department of Lands
IR	Indian Reservation
MBI	Macroinvertebrate Biotic Index
NA	Not assessed
NFS	Not Full Support
NMFS	National Marine Fisheries Service
NPS	Non-point Source Pollution
NPT	Nez Perce Tribe
NV	Needs Verification
PIR	Public Information Request
QA	Quality Assurance
QA/QC	Quality Assurance and Quality Control
RBP	Rapid Bioassessment Protocol
RIBI	DEQ's Reconnaissance Index of Biological Integrity (Fish)
SBA	Subbasin Assessment
SS	Salmonid Spawning
SSOC	Stream Segments of Concern
TMDL	Total Maximum Daily Load
TP	Total Phosphorus
TRC	Technical Review Committee

UAA	Use Attainability Analysis
USFS	U.S. Forest Service
WAG(s)	Watershed Advisory Group(s)
WLA	Waste Load Allocation
WQS	Water Quality Standards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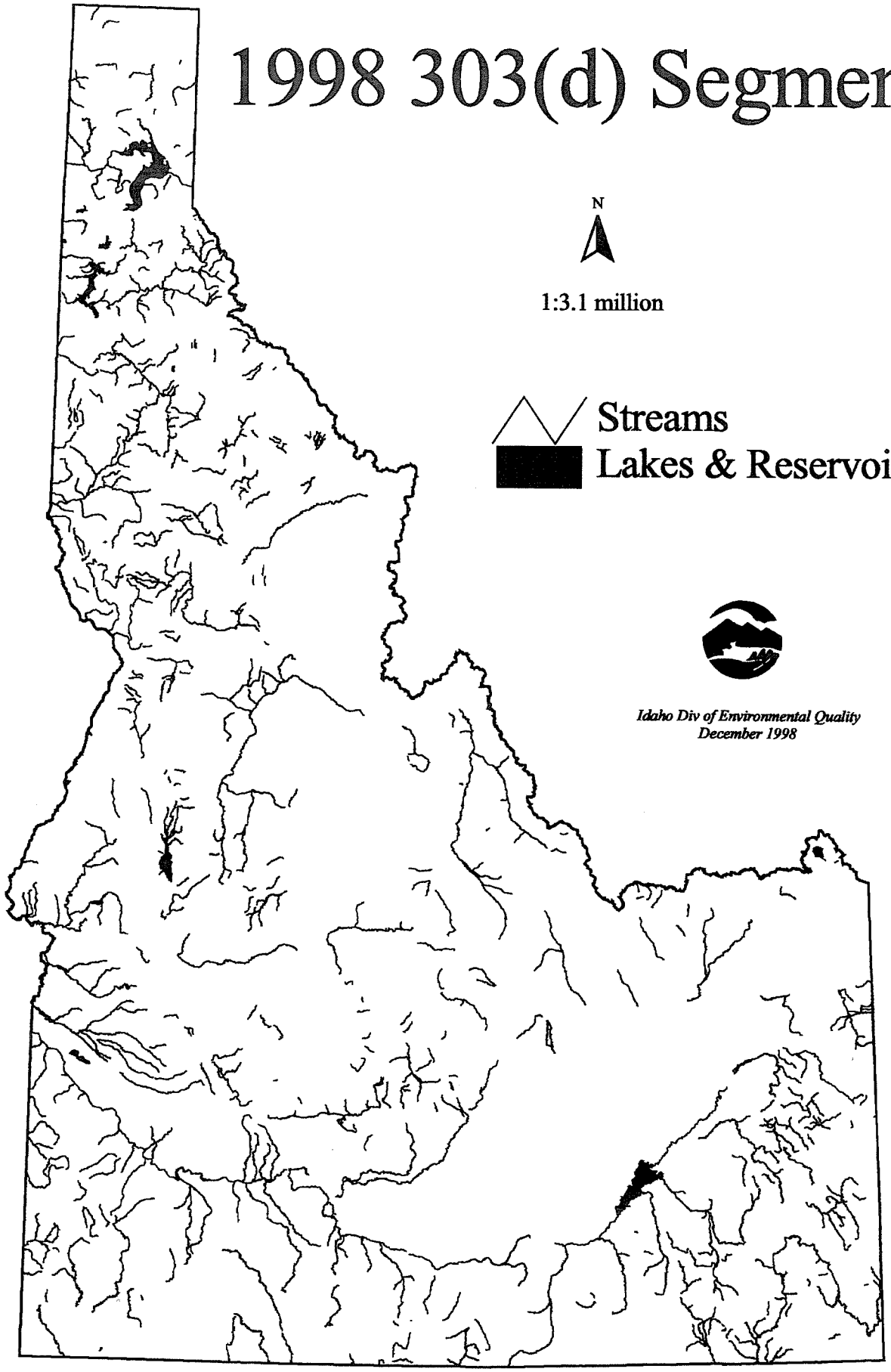
1998 303(d) Segments



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1.0 INTRODUCTION

As a result of several Clean Water Act requirements, the Idaho Division of Environmental Quality (DEQ) has developed a stream assessment program that:

- Measures and incorporates physical, chemical, and biological data;
- Addresses basic water quality and beneficial use questions; and
- Produces an accurate assessment of the status of the state's waters.

The two major components that accomplish these tasks are the Beneficial Use Reconnaissance Project (BURP) and the Water Body Assessment Guidance (WBAG) Process. The primary goal of the two programs is to provide consistency in data collection, monitoring, and analysis of data throughout the state.

What follows is a brief overview of the data collection process (Beneficial Use Reconnaissance Project) and the assessment tool used to evaluate that data (Water Body Assessment Guidance), as well as data from outside DEQ for purposes of the 1998 303(d) list. The reader is strongly encouraged to read all of Chapter 1, especially Attachment 1.1 Idaho Division of Environmental Quality Stream Assessment Process Paper. This attachment is a more detailed account of how BURP and WBAG were developed. It also demonstrates the ecological foundation for DEQ's biological monitoring and assessment process.

1.1 BENEFICIAL USE RECONNAISSANCE PROJECT OVERVIEW

In 1993, DEQ embarked on a pilot program, BURP, which aimed at integrating biological and chemical monitoring with physical habitat assessment as a way of characterizing stream integrity and the quality of the water. In addition, this program was developed in order to meet the Clean Water Act requirements of monitoring and assessing biology as well as developing biocriteria. BURP relies heavily upon protocols for monitoring physical habitat and macroinvertebrates and it closely follows the *Rapid Bioassessment Protocols for Use In Streams and Rivers* developed by EPA (Plafkin et al. 1989).

The following points outline the purpose and objectives of 1993-1996 BURP program:

Purpose:

- Provide consistency in monitoring, data collection and reporting as required by *Coordinated Nonpoint Source Water Quality Monitoring Program for Idaho* (Clark 1990).

Objectives:

- Document the existing beneficial uses of water bodies to the extent possible at a reconnaissance level-intensity.

- Determine beneficial-use support status, which may include the characterization of aquatic reference conditions.

Currently, one professional staff member from each of DEQ's six regional offices and one member from the central office Water Quality Assessment and Standards Bureau, form the BURP Technical Advisory Committee (TAC). These seven individuals are known as BURP coordinators and make-up the backbone of the BURP program. Their responsibilities include the development of field methodology, training, and day to day supervision of field crews.

The BURP coordinators are responsible for creating a yearly workplan. This workplan is published in the spring of each year. It establishes the purpose, objectives, methods, rationale for parameter selection, quality assurance/quality control, and training for the field season (Step 1 of Figure 1.1).

Once the work plan is completed the BURP coordinators begin to search for and review existing information on perspective water bodies to be visited by the field crews. They also meet at this time for coordinator training and review of field protocol.

Crews are hired in late spring each year and are trained regionally (Step 2 of Figure 1.1). After working intensely with the regional BURP coordinator each crew receives an independent review by the central office BURP coordinator. During this independent review, crews are scrutinized for adherence to the field protocols. Upon completion of the review site, the review team provides input and corrects any deviations that were noted from the field protocol. This independent review accomplishes two goals: first, it addresses compliance and consistency amongst crews and second, it functions as an extension or continuation of crew training.

After the field crews have been audited and any deviations or inconsistencies corrected, they begin the bulk of the field work for the season (Step 3 of Figure 1.1). The regional BURP coordinator initially selects stream reaches for the BURP crews to place monitoring sites on, in accordance with the BURP workplan. The coordinator gives them rough site placements by breaking streams down into reaches according to similar land uses, stream orders, gradients, and/or channel types. Crews then go to these preselected reaches where they collect samples and data according to the methods specified in the BURP workplan. Each week the regional BURP coordinator meets their crews in the field to ensure adherence to protocol and check that the site selected by the crews are representative of the reach that the coordinator chose for them to sample.

Upon return to the office the crews and BURP coordinator check their forms for correctness and clarity (Step 4 of Figure 1.1). They also check the macroinvertebrate samples to ensure they are adequately preserved. When these tasks have been completed the crews send the field data to the central office while macroinvertebrate, fish, and/or periphyton samples go to the lab for professional taxonomic work (Step 6 of Figure 1.1). This is the basic routine that the crews follow for the duration of the field season.

Field crews collect and measure biological and physical samples at each site. These data are recorded on standard field sheets. Field forms are sent directly to the central office for QA review prior to data entry. During the QA process the field forms are checked for completeness, legibility, and accuracy. This detailed process is outlined in *Procedures and Guidelines for QA/QC of 1995 Beneficial Use Reconnaissance Project Data* (DEQ, 1995) for 1993 through 1996 data. Basically, all data is checked to make sure the site descriptions are correctly geo-referenced and locations properly described. In addition, data are checked for adherence to collection and reporting methodology. The contents of the database are re-checked by the data entry section for accuracy before the data can be utilized in any fashion (Step 9 of Figure 1.1).

Field data is then ready for data entry. A complete check (100%) of the database against the field forms is preformed for accuracy by data entry. These results are then reported by the database administrator to the Bureau Chief of the Water Quality Assessment and Standards Bureau.

Once collected and preserved, samples are sent to the State Bureau of Laboratories or to a subcontractor for identification. The laboratory preforming the identifications reports QA/QC data on 10% of all samples processed. Samples are re-identified if there is less than a 95% similarity during QA work (Step 7 of Figure 1.1). The bench sheets or results are then sent to DEQ. The macroinvertebrate and fish vouchers are sent to the Orca J. Smith Museum at Albertson College, Caldwell, Idaho for curation and storage.

Upon receipt by DEQ, the bench sheets are checked by a DEQ Quality Assurance Specialist for completeness and for the accuracy of taxon codes used for each taxonomic group. This check is preformed against DEQ's list of taxonomic does cross referenced to the scientific name of each species to ensure accuracy. These bench sheets are maintained in the DEQ BURP files arranged by sites, region and year.

The bench sheets for both fish and macroinvertebrates are then sent to data entry. Once entered in the database the Environmental Information Systems Bureau preforms a complete (100%) check of all taxon codes entered against the bench sheets for that site (Step 12 of Figure 1.1). The results of this QA/QC check are then reported by the database administrator to the Water Quality Assessment and Standards Bureau. At this point, the data is now ready for analysis. The data proceeds into the WBAG process described in Section 1.2. An outcome of this process is the decision to place a water body on the 303(d) list, pursuant to the WBAG.

Figure 1.1

BURP Process Flow Diagram

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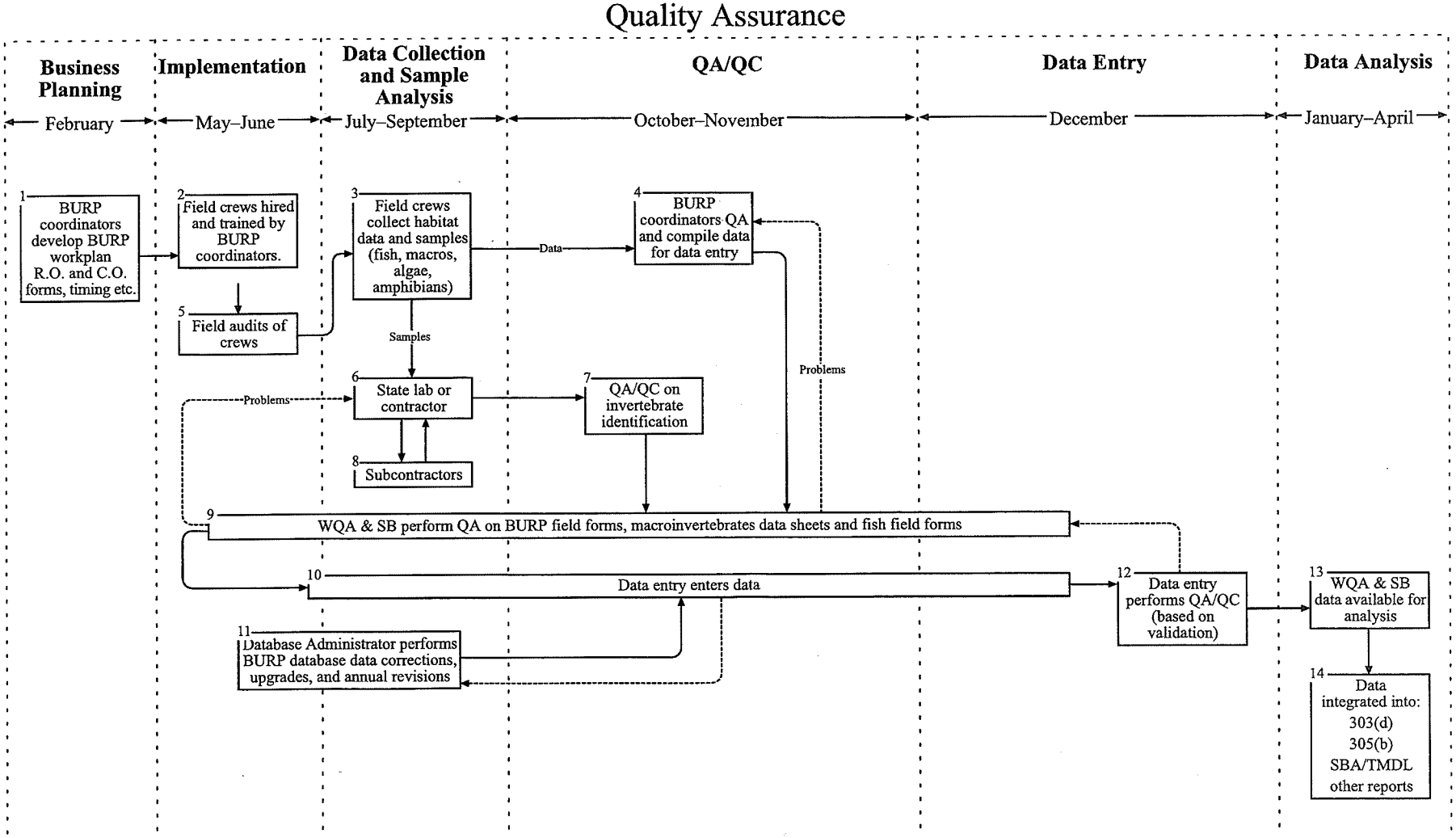


1.2 WATER BODY ASSESSMENT GUIDANCE PROCESS

WBAG was developed by DEQ as a non-arbitrary, objective water body assessment tool. This tool was to be used in answering basic water quality and beneficial use questions. One of the ways in which WBAG attempts to achieve this is through clear explanation of what data can be used in the process and the quality of that data. For data to be used in WBAG and ultimately for purposes of 303(d) list or de-listing, it must be the equivalent to the BURP data in that:

- It processes a published plan on why, how, where, and when the data was collected;
- The published plan includes a Quality Assurance and Quality Control section dealing with data collection and handling;
- Any chemical water quality data was analyzed at an EPA certified lab using approved Standard Methods; and
- Any biological identification (macroinvertebrates, fish, or algae) was performed by a professional taxonomist.

These data criteria requirements were specified for the public in DEQ's November 25, 1997, public notice requesting data.

How WBAG Works
WBAG is designed as analytical tool to help DEQ document:

- Existing beneficial uses;
- Determine beneficial use support status; and
- Describe current water quality conditions in a standardized consistent fashion.

The WBAG organization resembles the code of a computer program, wherein, flow charts break down a complicated process into more easily identified and understood parts and components (Figure 1.2). The ten basic sections which ask beneficial use and water quality questions are:

Section(s)
1000: Water Body Initialization
2000: Aquatic Life Beneficial Use Status Determination
3000: Recreation
4000: Water Supply
5000: Wild Life Habitat and Aesthetics
6000: Narrative Water Quality Standards
7000: Numeric Water Quality Standards
8000: Beneficial Use Attainability
9000: Appeals Process
10000: Water Quality Status Determination

General 1996 Water Body Assessment Guidance Structure

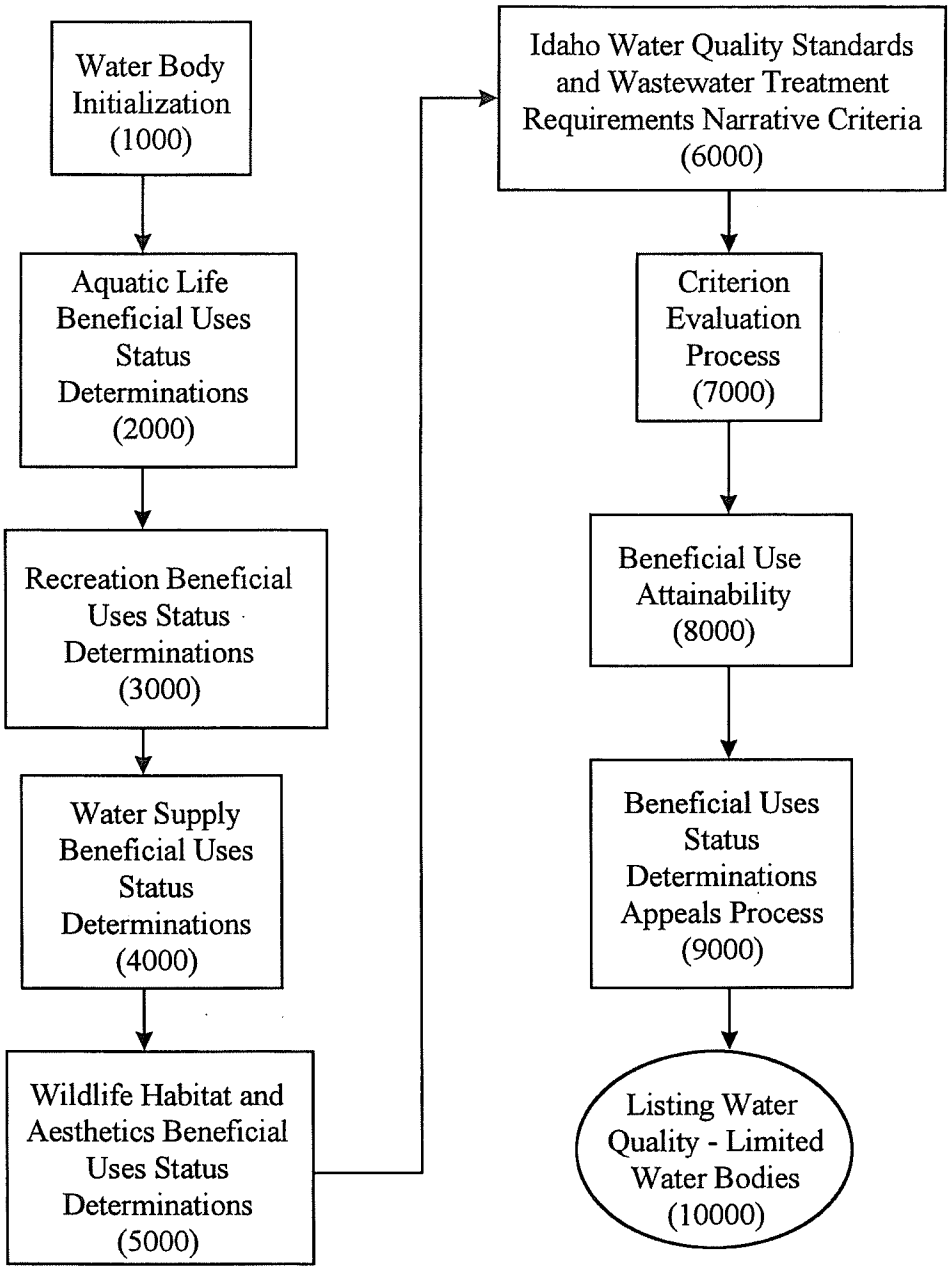


Figure 1.2. This is a schematic interpretation depicting how Idaho Division of Environmental Quality processes water quality data through the Water Body Assessment Guidance. Beneficial Uses and their associated criteria are evaluated against in-stream water quality data for a particular water body. Outcomes are documentation of designated or existing beneficial uses and their status as well as candidates for listing under section 303(d) of the Clean Water Act.

Section 1000: Water Body Initialization
This section describes the water body of question, by noting if beneficial uses are designated as part of Idaho's Water Quality Standards. If the water body is unclassified (not designated), existing beneficial uses are noted. The appropriate aquatic life use is determined, either warm or cold water biota. Salmonid spawning beneficial use is also documented as occurring or not. This same process follows for all the beneficial uses.

Section 2000: Aquatic Life Beneficial Use Status Determinations
This section asks more detailed questions about the aquatic life found in the water body of question. If chemical water quality data exists, then it is evaluated, if not, then the assessor is directed to Section 2300.

Section 2300: Ecological Indicators
For purposes of the 1998 303(d) list, the 1996 version of WBAG along with the addendum and errata that were issued in December 1996 still govern the process. However, a significant change occurred in the aquatic life determination section of WBAG in February 1998. The sequence of data consideration for cold water biota was changed, in effect, giving less weight to habitat and more to biology, specifically macroinvertebrates. This decision is fully explained in Attachment 1.1, *The Idaho Division of Environmental Quality Stream Assessment Process.*

Figure 1.3 illustrates this change for cold water biota, wherein, numeric water quality standard criteria exceedances are evaluated first, second macroinvertebrates, next fish data (if it exists), fourth algae data (if it exists), and finally habitat. A major numeric criteria exceedance gives a not full support call for the water body, while a minor exceedance or no exceedance results in considering the macroinvertebrate biotic index (MBI) score. Additional information concerning how major and minor exceedances are determined is described in Attachment 1.1.

A MBI score of 2.5 or less renders an impaired (I) call for aquatic life (cold water biota in most cases), while a 3.5 or greater is determined to be not impaired (NI). A MBI score between 2.5 and 3.5 gives a needs verification (NV) call, which leads to the Reconnaissance Index of Biological Integrity (RIBI). RIBI is based on evaluating qualitative and quantitative fish data in determining whether or not the aquatic life as cold water biota is not impaired (NI) or is inconclusive (NV). While the RIBI is a qualitative assessment by nature of the questions asked, the specific answers are addressed by looking at real data in most, if not all cases. For a full explanation of RIBI, see pages 60-62 of WBAG. Figure 1.3 shows there are only two outcomes of RIBI, either NI or NV. RIBI does not give you an impaired call because DEQ is not confident that capturing no fish (zero) is a water quality problem, or is due to some other factor (e.g. introductions, life histories, fishing pressure, sampling bias), or some combination of all.

If RIBI is inconclusive you proceed on to algae, another aquatic community that can be evaluated to determine aquatic life support status. The Algae Biotic Index (ABI) is included as Attachment 1.2. It should be noted that the Boise Regional Office of DEQ is the only office that has

consistently collected this type of data and hence could use this index. Here, the possible outcomes of this evaluation are impaired, not impaired, or needs verification.

At this point, the process has evaluated macroinvertebrates, fish, and algae and all three have been inconclusive (NV). Now the process proceeds to the Habitat Index (HI) as the next decision point for aquatic life support status. The HI is explained on pages 55-59 of the WBAG. The outcomes are similar to the other biotic assemblages previously discussed NI, I, or NV.

A NI call at any one of the aquatic biotic assemblages or habitat is deemed as indicating full support of the aquatic life beneficial use, for cold water biota. Conversely, an impaired call is deemed not full support of aquatic life. It should be pointed out that a major exceedance of numeric criteria overrules any not impaired/full support call.

Section 2330: Salmonid Spawning Bioassessment Process
Idaho Water Quality Standards recognize salmonid spawning as a beneficial use. WBAG explains how this beneficial use support status is determined. As originally published in 1996, salmonid spawning status was deemed full support if three age classes, including young of the year (YOY) were indicated through length frequency graphs or histograms. This criteria changed in November 1996 to two size classes of salmonid present. Due to public comments received. through the 303(d) process, DEQ elected to change the process and criteria for evaluating salmonid spawning support status. The revised process has two decision points with associated criteria. At the first decision point, three age classes of fish, including juveniles, must be present to be considered Full Support. Juveniles are fish <100 mm in length. Juveniles are used instead of YOY because of noted sampling biases associated with equipment and fish <100 mm (Reynolds. 1983. In Fisheries Techniques. Nielsen and Johnson ed. American Fisheries Society. Bethesda, Maryland). If this condition is not met then at decision number 2, the criteria is at least two size classes of fish with an associated habitat score ≥73 for Full Support. If fish length data or no fish data exists, then the salmonid spawning beneficial use is Not Assessed.

Sections 3000 - 5000: Other Beneficial Uses Support Status Determined
The other beneficial uses of recreation, water supply, wild life habitat and aesthetics are also evaluated in the WBAG process. For recreation, bacteria data is evaluated if it exists, or other indicators of non-support such as official beach closures or documented public complaints. No exceedance of the bacteria criteria, known closures or complaints would lead to a call of full support. The water supply beneficial use is domestic, agriculture, and industrial. Domestic water supply is evaluated in light of criteria for toxicity, radioactivity, or turbidity data. Agriculture water supply is evaluated in light of the narrative criterion and industrial water supply is always full support, since all water is treatable for purposes of this use. Wild life habitat and aesthetics are always full support according to WBAG assumptions as well.

Section 6000: Narrative Criteria Evaluated
Under this section, all the "free from" narrative criteria for hazardous material, toxic substances, deleterious material, radioactive materials, floating, suspended or submerged material, excess nutrients, oxygen demanding materials , and excess sediment are evaluated.

Section 7000: Criterion Evaluation
This section has been modified as described in section 4 (section 2300) above and Figure 1.3.

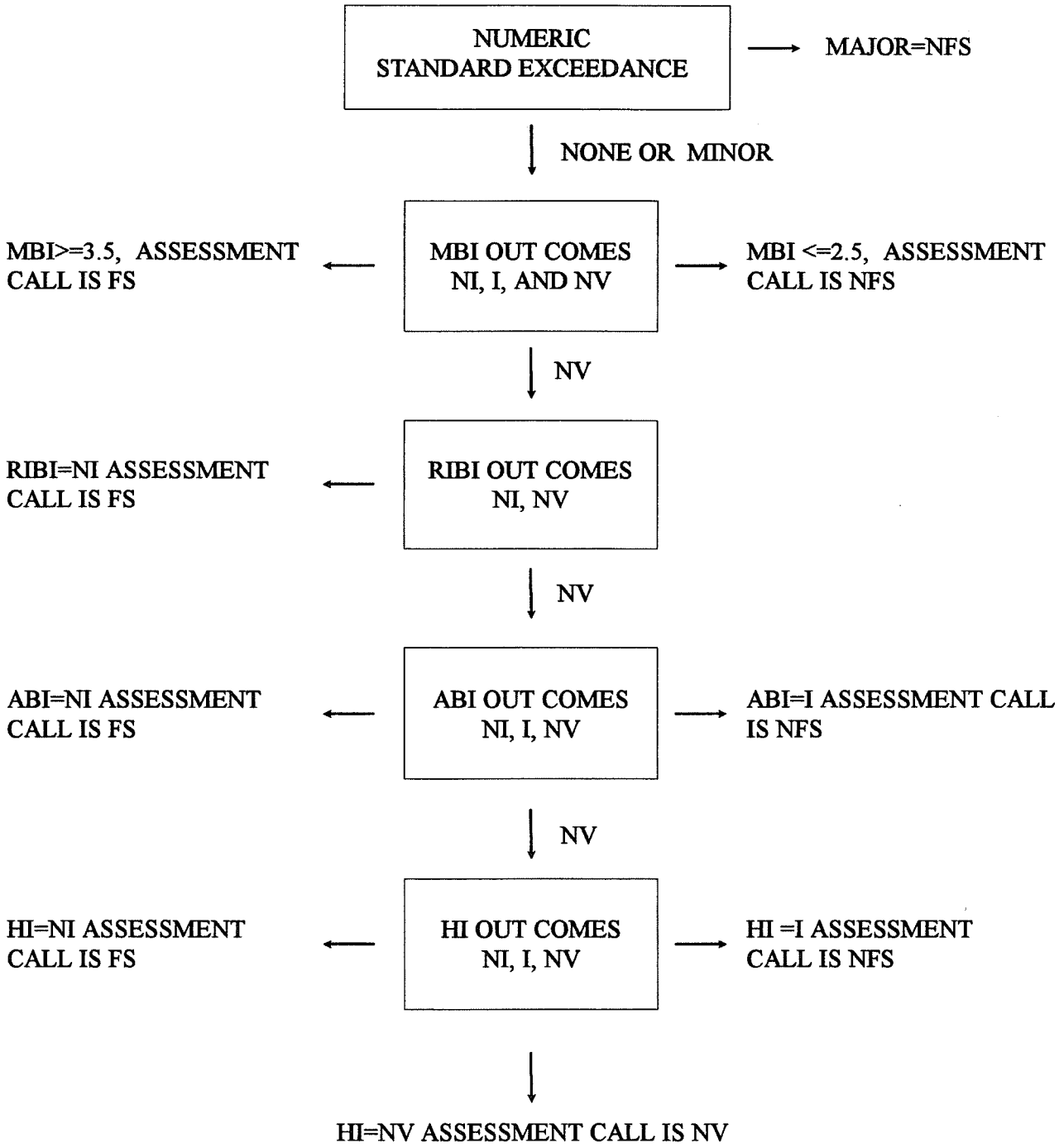
Section 8000: Beneficial Use Attainability
This section has not changed from the original 1996 publication. It has not been used to date by DEQ and was not used for purposes of the 1998 303(d) list.

Section 9000: Appeals
This section deals with documenting deviations from WBAG outcomes and subsequent approval by the appropriate authority within DEQ.

Section 10000: Listing Water Quality-limited Water Bodies
This section takes all of the above into consideration for a full support or not full support of beneficial uses. If a determination of not full support is arrived at, then the water body in question is a candidate for 303(d) water quality limited listing.

Figure 1.3. Cold Water Biota Determination Flow Chart

Section 2300: Ecological Indicators



*Other beneficial uses assessed according to Idaho Water Quality Standards and IDEQ WBAG

1.3 IDAHO DIVISION OF ENVIRONMENTAL QUALITY 1998 303(d) PROCESS

The following sections display the major milestones that led up to the establishment of the 1998 303(d) list.

August 1996
A technical committee, known as the Technical Review Committee, reviewed the draft WBAG and made comments. These comments were taken into consideration by DEQ and a final WBAG was published in August 1996. DEQ actually began to process data using WBAG in October 1996. Between October and December 1996 operational questions were encountered and handled. For example, one question was whether multiple sites on a water body should be evaluated separately or combined. In this particular instance, DEQ decided that each BURP site should be evaluated independently of each other. Several other operational questions are dealt with through the errata and addendum to WBAG published in December 1996.

One of the outcomes from evaluating the data through WBAG was numerous BURP sites ending up in the "needs verification" category. DEQ elected to pursue fish data from federal and state agencies to assist in making a full support or not full support call. Staff collected outside data through May 1997.

December 1997 - January 1998
In October 1997, DEQ moved into the 1998 303(d) process. This procedure involved laying out the two-step public involvement process, first requesting data, commenting on the draft list second, **and lastly working up guidelines and assumptions**. The public involvement process came to fruition through the first public notice for data initiated in November 1997. This public notice ran through January 1998. (Public participation is more fully explained in Section 1.4 of this Chapter)

March 1 - April 30, 1998
Outcomes from the WBAG process were complied into an ARCVIEW project file. This project combined the 1996 303(d) list, along with the results of WBAG for each BURP site. DEQ made a conscious decision to limit BURP data considered for the 1998 303(d) process to 1993 through 1996, because the 1997 macroinvertebrate identification data was not available until April of 1998. By this time, DEQ was well into the analysis and interpretation of the existing data and to consider this new data would have precluded meeting a reasonable 303(d) submittal deadline. It should be noted that all sites were evaluated, whether they were on the 1996 303(d) list or not. The GIS product was a visual depiction of water body status calls from WBAG along with the associated data behind the GIS coverage.

DEQ also used the product to address suspect water bodies on the 1996 303(d) list. DEQ was not convinced all of the listed waters were truly water quality limited and thus required development of total maximum daily loads. DEQ's suspicions were supported by its first hand

knowledge of many of these waters and the subjective nature of some of the data EPA used to develop the 1994 list. In most cases, two types of situations resulted in the water body being listed by EPA for Idaho: the water body did not meet U.S. Forest Service Plan objectives/standards or it was listed in Appendix D of Idaho's 1992 305(b) report. Upon close inspection of Appendix D, it can be noted that the majority of the calls were "evaluated" not monitored (Table 1.1). EPA states in Appendix A, page 2, "EPA agrees that Forest Plan objectives/standards do not have the same regulatory significance for purposes of Section 303(d) listing as do Water Quality Standards." "However, because exceedance of Forest Service standards are not directly correlated to an exceedance of State Water Quality Standards, additional supporting information is needed to establish that link" (See EPA's Appendix C). In response at A, page 13, EPA also states the following in relation to using the 305(b) report and evaluated data as a basis for listing, "Some of the data for specific water bodies listed in the 305(b) report or the Basin Status Reports may not accurately reflect the present day condition of that water body."

The State's position on this listing criteria is best summed up in a draft report by Bauer and Ralph (1998), "No one knows with certainty if these streams should be on this list, if the stressors are correctly identified, and if the causative agents are correctly identified." DEQ felt it was reasonable and responsible to re-evaluate the water bodies on the 1996 303(d) list in light of new site specific water quality data and beneficial use status information.

The DEQ regional staff reviewed and edited the ARCVIEW project based on data and their primary knowledge of the water bodies in question. The project file **showed** water bodies, 303(d) listing status, relative BURP sites, and their support status (full support, not full support or needs verification). This illustration allowed DEQ staff to quickly ascertain the water quality picture for an entire water body, according to applicable 303(d) boundaries.

At this point, DEQ reviewed different status calls on the same water body to determine an overall status call for the water body. The overall status call decision used the most conservative call from a series of status calls on the same water body. The order of most conservative calls was as follows: not full support →→ needs verification →→ full support. Any necessary changes or corrections were made to the project file at this time. Additionally, DEQ evaluated outside data provided through the public notice against the final beneficial use status call and resolved inconsistencies.

As noted above, there were situations where definite site status calls existed for a single water body. In some situations where the upper site(s) was full support and the lower site(s) was needs verification or not full support, DEQ considered making boundary changes. Such changes required justification based on impacts attributable to tributaries, lands use or ownership, acting alone or in combination. These boundary changes were reviewed by the regional staff who determined appropriate changes to the project file, (see Chapter 4, Section 4.3 for more detail on boundary changes).

May 1 - 14, 1998
The ARCVIEW project file was finalized and lists produced for the draft 1998 303(d) document. The list included those waters on the 1998 303(d) list, those being de-listed from the 1996 list, and those with boundary changes.

May 14 - June 15, 1998
The draft 1998 303(d) list was made public by Governor Phil Batt and Larry Koenig, DEQ Assistant Administrator. A 30-day public notice began in 18 papers around the state. Materials were made available for the public at various libraries around the state.

June 8, 1998
DEQ produces and mails out summary reports for the three lists: those water bodies on the 1998 303(d) list, those being de-listed from the 1996 list, and boundary changes. These summaries reflect the processing of data, site and water body status calls, decisions driving cold water biota beneficial use status calls, criteria exceedances, and sources of information.

June 12 - July 15, 1998
Due to public requests, DEQ extended the comment period an additional 30 days to July 15, 1998.

July 15, 1998 to Present
DEQ processing public comments for "consideration" in preparation of final 1998 303(d) list.

Summary of Events

DATE	ACTION
August 1996	DEQ WBAG finalized and published.
October 1996 - December 1997	DEQ processes 1993 - 1996 BURP data though WBAG.
December 1997 - January 1998	DEQ runs public notice for collection of outside data for 1998 303(d) list. Part of this notice includes notification of working rules and assumptions for acceptance of "qualified" data.
January 10 - March 10, 1998	DEQ melds outside data received in January announcement with DEQ support status outcomes, all incongruities resolved.
March 10 - April 30, 1998	Compile results of computer output into one ARCVIEW project file for purposes of draft 303(d) list.
May 1 - 13, 1998	1998 draft 303(d) list and associate maps finalized.

DATE	ACTION
May 14 - June 15, 1998	DEQ releases draft 1998 303(d) list, begins 30 day public comment period.
May 15 - June 30, 1998	Regional Offices share draft list with respective BAGs.
May 28, 1998	DEQ meets with EPA in Seattle to explain 303(d) process and draft list.
June 8, 1998	DEQ produces summary reports supporting 303(d) list, de-list and boundary changes. Report sent to interested publics.
June 12 - July 15, 1998	Due to public request, DEQ extends comment period additional 30 days.
July 15, 1998	Public comment period ends.
July 27 to present	Central and Regional DEQ staff meet to discuss public comments. DEQ Central and Regional staff to address general comment/questions and work up DEQ response.

1.4 PUBLIC PARTICIPATION

The purpose of this section is to describe the different opportunities DEQ provided for public participation in the 303(d) process.

November 25, 1997 to January 5, 1998
DEQ ran its first "Public Notice" (see administrative record for announcement) for the 1998 303(d) process, starting in November of 1997. This notice covered what was proposed, the need for action, who was affected, history, where to find and review documents referenced in the notice, and finally what happened next. This notice was published in the legal section of 17 papers (see administrative record for papers) statewide over a 30 day period. The notice stipulated that this was the first round of public participation and requested data or information on waters (streams, rivers, lakes) in the state. According to the announcement, information received would be considered in making a new 303(d) listing for 1998 as required by the Clean Water Act. DEQ also stated the requirements for data consideration in the "working assumptions and guidelines" referenced in the notice and available through DEQ.

DEQ made it clear that this announcement was not for formal comment on the list, but merely to gather existing information for consideration in making the list. DEQ informed the public that a second round of public participation would involve commenting on the draft list itself. DEQ went on to clearly state where materials could be obtained by providing a street address, phone number and E-mail address.

May 14, 1998 to June 15, 1998
Governor Batt and Larry Koenig officially announced and highlighted the results of Idaho's draft 1998 303(d) list as a new conference (see administrative record). The news conference and Governor's news release, provided at the conference and statewide, stated that the draft list was out for a 30 day comment period ending June 15, 1998. The news release listed Larry Koenig as the point of contact along with his address and phone number. Copies of the draft 1998 303(d) package were handed out to the news media attending the conference. The draft 303(d) package consisted of; working rules and assumptions for compiling Idaho's 1998 303(d) list; hydrologic unit map; draft list; draft de-listings; draft boundary changes; and assessment process paper.

Concurrent with the Governors news release, DEQ placed "display adds" in 17 newspapers statewide that ran over the 30 day period (minimum of three times in 30 days for each paper). These were the same news papers used in the previous public notice noted above (see administrative record for copy of the display ad). DEQ ran these ads with an advertisement format in the local sections of the newspapers rather than the legal sections. This was in response to public comment of the earlier public notice stating that many people do not look at the legal section of papers for public actions.

DEQ mailed copies of the 303(d) package to those who had requested it, who had sent information to DEQ during the request for data, and to many other state and federal agencies. All of the regions shared the draft list as well as provided copies to their respective Basin Advisory Groups, Watershed Advisory Groups and other interested parties (see administrative record for other interested parties). DEQ furnished 20 copies to the Boise National Forest who acted as a clearing house for all the national forests in Idaho. DEQ also furnished 10 copies each to the state BLM, and state Idaho Fish and Game offices. DEQ provided the state library with 20 copies of the 303(d) package and maps. The state library then circulated these copies to various county libraries designated as official repositories (see administrative record for list of repositories). On May 28, DEQ traveled to Seattle, Washington, to go over the draft list with the EPA Idaho 303(d) team. DEQ explained its process and all the components therein, for instance, BURP, WBAG, lists, maps, and summary reports.

In response to public comment, DEQ extended the public comment period an additional 30 days (60 total) from June 15 to July 15, 1998. This was accomplished by placing another "display ads" with the 17 newspapers referenced above (see administrative record for copy). During the entire 60 day public comment period all DEQ regional office and the central office made themselves available for questions and materials. The central office received and answered may "public information requests" regarding the list during this time. DEQ developed and mailed a summary report to those requesting additional information including EPA. These summary reports were for waters on the 303(d) list, those waters proposed for de-listing and boundary changes. These reports referenced the BURP/WBAG outcomes, and provided the following information: BURP site identification number; decision that drove the final status call; any criteria exceedances; other beneficial use support calls; and finally the source of information used.

1.5 EXISTING AND READILY AVAILABLE INFORMATION

DEQ assembled and evaluated existing and readily available water quality-related data and information when it developed the 1998 303(d) list.

DEQ reviewed those waters identified in Idaho's most recent Section 305(b) report and identified as Stream Segments of Concern (SSOC). The most recent 305(b) report and the Basin Status Reports that list SSOC were used by EPA in developing the 1994 303(d) list. EPA listed water bodies on the 1994 303(d) list that were identified in the Basis Status Reports and in Appendix D of the 305(b) report as impaired or threatened. However, the vast majority of such waters were listed based upon "evaluated" data, that does not include biological, physical or chemical monitoring data. In addition, the data used for 305(b) and SSOC does not meet the QA/QC requirements of the BURP process and are waters the state intended to assess further.

In compiling the 1998 list, DEQ compared those waters from Appendix D and the SSOC, and the source of Appendix D and SSOC listing, with the water quality monitoring data collected through the BURP process. When the BURP monitoring data established full support of beneficial uses and compliance with water quality standards, DEQ relied upon the BURP data and removed such water bodies from the 1998 303(d) list. (Table 1.1 shows the source of the information used for listing water bodies that DEQ has determined to remove from the 1998 list.) Removing such water bodies from the 1998 list is consistent with EPA regulations that provide water bodies may be removed from the list based upon more recent or accurate data (40 C.F.R. 130.7(b)(6)) and with EPA Region 10 guidance that provides states should analyze the data that supports the 305(b) reports when determining whether to place waters on the 303(d) list. EPA Region 10 Section 303(d) Listing Guidance (1995) at Page 3-2. It is also consistent with EPA's rationale for placing these waters on the 303(d) list in the first instance in 1994. When these waters were listed, EPA explained that the data that supported listing was not of the same quality or quantity as monitored data and that its listing was made pending the receipt of more recent and accurate data. See 303(d) Decision Document at pages 4-5 and Appendix A to the 1994 list at page 5-6 and 13-14. DEQ now has more recent and accurate data, and when this data shows full support and compliance with standards, it is appropriate to remove these waters from the 303(d) list.

DEQ considered, when available information existed, waters for which dilution calculations or predictive models indicate non-attainment of applicable water quality standards. Some of the waters were on the 1994 303(d) list based upon the result of Forest Service sediment models, such as BOISED, NEZSED and WATBAL. These models were developed as management tools by the U.S. Forest Service and not to establish compliance with state water quality standards. The state water quality standards do not incorporate or reference these models. When compared to the actual monitoring data collected by DEQ through the BURP process, the results from these models should not and were not used to retain waters on the 1998 303(d) list.

DEQ actively solicited and considered information from members of the public and from local, state and federal agencies. DEQ clearly explained how data would be used in making 303(d)

listing decisions. DEQ spelled out the requirements for data submission and consideration in the November 1997 public notice, as set forth below:

> "The DEQ is asking that data submitted meet the following requirements: 1) information be available describing the quality assurance and quality control such that the DEQ can reasonably apply the available data; and 2) that enough information and data be submitted to indicate that the measurements do not represent an abnormal condition.
>
> Water bodies may be §303(d) listed based upon evaluation of biological, chemical or physical data demonstrating recurring numeric or narrative standards violations, use impairment, or a declining trend in water quality such that standards would be exceeded prior to the next listing cycle."

Additional guidance was provided to the public regarding data/information in the working assumptions and guidelines referenced in the "Public Notice" and available through DEQ. Here DEQ stated:

> "The DEQ can only use "readily available" and "useful" data to evaluate whether to add or remove a water body from the list. Readily available means data the DEQ has received or is made aware of and is accessible. Usable means processed data summarized in final reports or data that has been assessed and placed into tabular format. File boxes/drawers or raw data sheets will be of no use as the DEQ will not have the time or resources to evaluate them. Reports will be most useful if submitted in an electronic format, such as WordPerfect or some other word processing software. Tabular data in an electronic form such as Lotus, Access, dBase or other spreadsheet/database software are strongly encouraged.
>
> Quality assurance data must be provided with any biological information submitted to the DEQ. This should demonstrate who, when, where, and how the data were collected and analyzed. For any chemical data submitted, Quality Assurance/Quality Control must be included. This includes a description of field and laboratory methods used. Raw QA/QC data will be not helpful in this regard, it must have some analysis performed and interpretation made."

DEQ considered all information and data submitted during this data request process. It eliminated those data that did not comport with the requirements noted above. However, DEQ did read and take into consideration those comments in the overall decision to list, de-list, or make boundary changes. The region specific response to comments set forth in Chapter 4 demonstrate how DEQ considered, and in some instances changed its listing determination, based upon data submitted by members of the public and other agencies and entities.

It should be noted that DEQ received very little in the way of "real" data. That is, data in the form of numbers, tables, figures etc. A majority of the comments received were very subjective in

nature. For example: "This stream is heavily impacted by grazing" or "This stream is known to be hammered." These types of comments were of very little use without collaborative evidence to support the subjective claims being made. What DEQ was looking for were numeric standard exceedances (generally for chemistry) with QA/QC information or biological data to support an impaired or unimpaired beneficial use. Again, DEQ received very little of this type of information.

Many commentors referred DEQ to reports that suggested water quality impacts based on factors in the riparian area or in the watershed, such as Forest Plan Standards and Guides, BLM Proper Functioning Conditions or qualitative stream surveys. These Forest Service and BLM standards and guides are not incorporated or referenced in the Idaho Water Quality Standards and, therefore, an exceedance of such standards or guides does not alone justify listing a water on the states 303(d) list. DEQ used its best professional judgment in conjunction with an analysis of BURP monitoring data to determine the relevance of such information. The Region specific responses to comments in Chapter 4 of this document reflect the consideration and use of such information by DEQ in making its listing decisions.

TABLE 1.1 WATER BODIES PROPOSED FOR DE-LISTING FROM THE 1996 303(d) LIST. NOTE WHAT WAS USED TO LIST WATER BODY IN "COMMENTS" FIELD.

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
1	16010102	2277	Giraffe Creek	Headwaters to Wyoming Border	305(b), appendix D, SSOC-"p"for CWB, SS, PCR, SCR, habitat alteration as per Basin Status Report	
2	16010201	2255	Bailey Creek	Headwaters to Bear River	305(b), appendix D	
3	16010201	2256	Eightmile Creek	USFS boundary to Bear River	305(b), appendix D	
4	16010201	2258	Stauffer Creek	Headwaters to Bear River	305(b), appendix D	
5	16010201	2260	Georgetown Canyon	Headwaters to Bear River	305(b), appendix D	
6	16010201	2262	Montpelier Creek	Headwaters to Bear River	305(b), appendix D	
7	16010201	2266	Paris Creek	Headwaters to Bear River	305(b), appendix D	
8	16010201	2267	Bloomington Creek	Headwaters to refuge	305(b), appendix D	
9	16010201	2269	Little Creek	St. Charles Creek to Bear Lake	305(b), appendix D	
10	16010202	2244	Mink Creek	Headwaters to Bear River	305(b), appendix D	
11	16010202	2247	Trout Creek	Headwaters to Bear River	305(b), appendix D	
12	16010203	2281	Beaver Creek	Headwaters to Utah Line	305(b), appendix D	
13	17010104	3370	Snow Creek	Headwaters to Deep Creek	305(b) appendix D	
14	17010104	3373	Twentymile Creek	Headwaters to Deep Creek	305(b) appendix D	
15	17010104	3389	Boundary Creek	Gaging station to Canadian border	305(b) appendix D	
16	17010104	3390	Boundary Creek	Headwaters to Gaging station	305(b) appendix D	X
17	17010105	2021	Canuck Creek	Canadian border to MT line	305(b) appendix D	
18	17010105	3398	Deer Creek	Headwaters to Moyie River	305(b) appendix D	
19	17010105	3399	Meadow Creek	Headwaters to Moyie River	Forest Service Information	
20	17010105	5069	East Fork Meadow Creek	Headwaters to Meadow Creek	Forest Service Information	
21	17010105	5206	Wall Creek	Headwaters to Meadow Creek	Forest Service Information	
22	17010213	3473	Lightning Creek	Quartz Creek to Clark Fork	305(b) appendix D	
23	17010213	3475	Spring Creek	Headwaters to Lightning Creek	305(b) appendix D	
24	17010213	3477	Wellington Creek	Headwaters to Falls	305(b) appendix D	
25	17010213	3478	Twin Creek	Headwaters to Clark Fork	305(b) appendix D	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
26	17010213	5184	South Fork Clark Fork	Headwaters to Clark Fork	Information provided during comment period	
27	17010213	7474	Porcupine Creek	Headwaters to Lightning Creek	305(b) appendix D	
28	17010213	7475	Rattle Creek	Headwaters to Lightning Creek	305(b) appendix D	
29	17010214	3437	Brickel Creek	Washington Line to Spirit Lake	305(b) appendix D	
30	17010214	3449	Pack River	HWY 95 to Pend Oreille Lake	305(b) appendix D, SSOC-"s/t" for WWB, AWS, PCR and SCR, "p" for DWS, SS and CWB	
31	17010214	3455	Grouse Creek	Headwaters to Pack River	Information provided during comment period	
32	17010214	3462	Trestle Creek	Headwaters to Pend Oreille Lake	Forest Service Information	
33	17010214	3468	Gold Creek	Headwaters to Pend Oreille Lake	SSOC-"s/t" for CWB and SS	
34	17010215	3419	Lamb Creek	Washington line to Priest Lake	305(b) appendix D	
35	17010215	3428	Tango Creek	Headwaters to Priest Lake	305(b) appendix D	
36	17010215	3432	Trapper Creek	Headwaters to Upper Priest Lake	SSOC-"s/t" for SS and CWB	
37	17010301	3486	Bumblebee Creek	Headwaters to N Fk CdA River	305(b) appendix D	
38	17010301	3488	Laverne Creek	Headwaters to N Fk CdA River	305(b) appendix D	
39	17010301	3489	Leiberg Creek	Headwaters to N Fk CdA River	305(b) appendix D	
40	17010301	3490	Skookum Creek	Headwaters to N Fk CdA River	305(b) appendix D	
41	17010301	3501	East Fork Eagle Creek	Headwaters to Prichard Creek	305(b) appendix D	
42	17010301	3505	Downey Creek	Headwaters to CdA River	305(b) appendix D	
43	17010301	3507	Flat Creek	Headwaters to CdA River	305(b) appendix D	
44	17010301	3510	Trail Creek	Headwaters to Tepee Creek	305(b) appendix D	
45	17010301	5007	Barney Creek	Headwaters to N Fk CdA River	Forest Service Information	
46	17010301	5008	Barton Gulch	Headwaters to Granite Gulch	Forest Service Information	
47	17010301	5042	Cinnamon Creek	Headwaters to CdA River	Forest Service Information	
48	17010301	5115	Lost Fork	Headwaters to Jordan Creek	Forest Service Information	
49	17010301	7500	Tiger Gulch	Headwaters to Prichard Creek	305(b) appendix D	
50	17010301	7502	Wesp Gulch	Headwaters to Prichard Creek	305(b) appendix D	
51	17010301	7503	Ophir Gulch	Headwaters to Prichard Creek	305(b) appendix D	
52	17010301	7505	Idaho Gulch	Headwaters to Prichard Creek	305(b) appendix D	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
53	17010302	4005	Terror Gulch	Headwaters to S Fk Coeur d'Alene R	Information provided during comment period	
54	17010303	3538	Carlin Creek	Headwaters to CdA Lake	305(b) appendix D	
55	17010303	3539	Turner Creek	Headwaters to CdA Lake	305(b) appendix D	
56	17010303	3544	Fernan Creek	Headwaters to Fernan Lake	305(b) appendix D	
57	17010303	3548	Rockford Creek	Headwaters to Coeur d'Alene Lake	305(b) appendix D	
58	17010304	3578	Benewah Creek	Headwaters to Chatcolet Lake	305(b) appendix D, SSOC-"s/t" for AWS, PCR, and SCR, "p" for CWB and SS	
59	17010304	3586	Beaver Creek	Headwaters to St. Maries River	Forest Service Information	
60	17010304	3598	Bond Creek	Headwaters to St. Joe River	305(b) appendix D	
61	17010304	3600	Hugus Creek	Headwaters to St. Joe River	305(b) appendix D	
62	17010304	3602	Big Creek	Conf of M & W Fks Big Cr to St Joe	305(b) appendix D	
63	17010304	3604	Marble Creek	Hobo Creek to St. Joe River	305(b) appendix D	
64	17010304	3613	Sisters Creek	Headwaters to St. Joe River	305(b) appendix D, ICL	
65	17010304	3615	Prospector Creek	Headwaters to St. Joe River	305(b) appendix D	
66	17010304	3617	Eagle Creek	Headwaters to St. Joe River	Forest Service Information	
67	17010304	3618	Quartz Creek	Headwaters to St. Joe River	305(b) appendix D, ICL	
68	17010304	3620	Bruin Creek	Headwaters to St. Joe River	305(b) appendix D	
69	17010304	3621	Mosquito Creek	Headwaters to St. Joe River	Information provided during comment period	
70	17010304	7604	Norton Creek	Headwaters to Bussel Creek	305(b) appendix D	
71	17010304	7605	Toles Creek	Headwaters to Marble Creek	305(b) appendix D	
72	17010304	7609	Daveggio Creek	Headwaters to Marble Creek	305(b) appendix D	
73	17010305	3557	Mokins Creek	Headwaters to Hayden Lake	305(b) appendix D	
74	17040104	2019	McCoy Creek	Iowa Creek to Palisades Reservoir	SSOC-"p" for SS and CWB	
75	17040104	6019	McCoy Creek	Headwaters to Iowa Creek	SSOC-"p" for SS and CWB	
76	17040105	2227	Sage Creek	Headwaters to Crow Creek	305(b), appendix D	
77	17040204	2114	South Fork Teton River	Forks to Henrys Fk, Snake R	305(b), appendix D	
78	17040204	2132	Teton Creek	Highway 33 to Teton River	305(b), appendix D	
79	17040205	2038	Willow Creek	Sellars Creek to Grays Lake Outlet	305(b), appendix D	X

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
80	17040205	2043	Grays Lake Outlet	Falls R42ET35S3 to Willow Creek	305(b), appendix D	X
81	17040205	2046	Lava Creek	Headwaters to Grays Lake Outlet	305(b), appendix D	
82	17040205	2051	Cellars Creek	Headwaters to Willow Creek	305(b), appendix D	
83	17040205	2055	Hancock Creek	Headwaters to Willow Creek	305(b), appendix D	
84	17040207	2307	Rawlins Creek	Headwaters to Brush Creek	305(b), appendix D	
85	17040207	2317	Timothy Creek	Headwaters to Diamond Creek	305(b), appendix D	
86	17040207	2318	Cabin Creek	Headwaters to Lanes Creek	305(b), appendix D	
87	17040207	2319	Kendall Creek	Headwaters to Diamond Creek	305(b), appendix D	
88	17040208	2332	Gibson Jack Creek	Headwaters to Portneuf River	305(b), appendix D	
89	17040208	2333	Mink Creek	Headwaters to Portneuf River	305(b), appendix D	
90	17040208	2340	Dempsey Creek	Headwaters to Portneuf	305(b), appendix D	
91	17040208	2341	Pebble Creek	Headwaters to Portneuf	305(b), appendix D	
92	17040208	2343	Toponce Creek	Headwaters to Portneuf River	305(b), appendix D	
93	17040208	4007	Walker Creek	Headwaters to Marsh Creek	305(b), appendix D	X
94	17040208	6335	Bell Marsh Creek	Headwaters to Marsh Creek	305(b), appendix D	X
95	17040208	6336	Garden Creek	Headwaters to Garden Creek Gap	305(b), appendix D	X
96	17040208	6338	Goodenough Creek	Headwaters to Marsh Creek	305(b), appendix D	X
97	17040212	2399	Ellison Creek	Headwaters to Snake River	305(b), appendix D, SSOC-"p" for CWB and SS, "n" for PCR, "s/t" for SCR	
98	17040212	2407	Vinyard Creek	Headwaters to Snake River	305(b), appendix D	X
99	17040213	2458	Salmon Falls Creek	Nevada line to Salmon Falls	305(b), appendix D	
100	17040213	2465	House Creek	Headwaters to Cedar Creek Reservoir	305(b), appendix D	
101	17040213	2467	Shoshone Creek	Big Creek to Magic Hot Springs	305(b), appendix D, SSOC-"s/t" for AWS, "p" for CWB, SS, PCR and SCR	
102	17040215	2213	Warm Creek	Headwaters to Divide Creek	305(b), appendix D	
103	17040216	2155	Birch Creek	Blue Dome to Reno Ditch	305(b), appendix D	
104	17040217	2143	Badger Creek	Headwaters to Little Lost River	305(b), appendix D	
105	17040217	2144	Deer Creek	Confluence of N & S Fks Deer Cr to Little Lost Riv	305(b), appendix D	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
106	17040217	2146	Dry Creek	Diversion to Wet Creek	305(b), appendix D	X
107	17040217	2147	Dry Creek	Headwaters to Diversion	305(b), appendix D	
108	17040218	2169	Cherry Creek	Headwaters to Antelope Creek	305(b), appendix D	X
109	17040218	2181	Wild Horse Creek	Headwaters to Big Lost River	305(b), appendix D	
110	17040218	2183	Star Hope Creek	Headwaters to Big Lost River	305(b), appendix D	
111	17040218	2185	Muldoon Creek	Headwaters to Starhope Creek	305(b), appendix D	
112	17050102	2550	Bruneau River	Nevada line to Hot Creek	SSOC-"p" for CWB and SS	
113	17050102	2559	Big Flat Creek	Flat Creek to E Fk Bruneau River	305(b), appendix D	
114	17050102	2560	Cherry Creek	Nevada line to Three Creek	305(b), appendix D	
115	17050102	2562	Deadwood Creek	Headwaters to E Fk Bruneau River	305(b), appendix D	
116	17050102	2563	Sheep Creek	Marys Creek to Bruneau River	305(b), appendix D, 'SSOC-"n" for CWB and SS, "p" for PCR	
117	17050102	2564	Sheep Creek	Nevada Line to Marys Creek	305(b), appendix D, SSOC-"p" for CWB, SS, PCR and SCR	
118	17050102	2565	Marys Creek	IR boundary to Sheep Creek	305(b), appendix D, SSOC-"p" for CWB, SS, PCR and SCR	
119	17050103	2672	McBride Creek	Headwaters to Oregon Line	305(b), appendix D	
120	17050103	2683	South Fork Castle Creek	Headwaters to Castle Creek	305(b), appendix D	
121	17050104	2617	Pole Creek	Headwaters to Deep Creek	305(b), appendix D	
122	17050104	2621	Battle Creek	Headwaters to Owyhee River	SSOC, 305(b), appendix D	
123	17050104	2628	Blue Creek	Headwaters to Blue Creek Res.	305(b), appendix D	
124	17050104	2630	Shoofly Creek	Headwaters to Blue Creek	305(b), appendix D	
125	17050107	2641	North Fork Owyhee River	Headwaters to Oregon Line	305(b), appendix D	
126	17050107	2646	High Noon Creek	Headwaters to N Fk Owyhee River	305(b), appendix D	
127	17050107	6641	Cabin Creek	Headwaters to Juniper Creek	305(b), appendix D	
128	17050107	6642	Corral Creek	Headwaters to Cabin Creek	305(b), appendix D	
129	17050108	2649	Jordan Creek	Headwaters to Williams Creek	305(b), appendix D, SSOC-"p" for CWB, SS, PCR and SCR	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
130	17050108	2650	Williams Creek	Headwaters to Jordan Creek	305(b), appendix D	
131	17050108	2654	Rock Creek	Triangle Res to N Fk Boulder Creek	305(b), appendix D	
132	17050108	2657	Meadow Creek	Headwaters to Rock Creek	305(b), appendix D	
133	17050108	2659	Flint Creek	Headwaters to Jordan Creek	305(b), appendix D	
134	17050111	2761	Middle Fork Boise River	Wilderness boundary to Boise River	305(b), appendix D	
135	17050111	2762	Roaring River	Headwaters to M Fk Boise River	Boise National Forest Plan	
136	17050111	5097	James Creek	Headwaters to M Fk Boise River	Boise National Forest Plan	
137	17050111	5114	Lost Creek	Headwaters to N Fk Boise River	Boise National Forest Plan	
138	17050111	5116	Lost Man Creek	Headwaters to M Fk Boise River	Boise National Forest Plan	
139	17050111	5143	Phifer Creek	Headwaters to M Fk Boise River	Boise National Forest Plan	
140	17050111	5191	Swanholm Creek	Headwaters to M Fk Boise River	Boise National Forest Plan	
141	17050112	2696	Robie Creek	Headwaters to Mores Creek	305(b), appendix D	
142	17050112	2743	Mores Creek	Headwaters to Lucky Peak Reservoir	305(b), appendix D	
143	17050112	2746	Grimes Creek	Headwaters to Mores Creek	305(b), appendix D	
144	17050112	5006	Bannock Creek	Headwaters to Mores Creek	Boise National Forest Plan	
145	17050112	5043	Clear Creek #1	Headwaters to Grimes Creek	Boise National Forest Plan	
146	17050112	5044	Clear Creek #3	Headwaters to Grimes Creek	Boise National Forest Plan	
147	17050112	5085	Granite Creek	Headwaters to Mores Creek	Boise National Forest Plan	
148	17050113	2576	Wood Creek	Headwaters to Willow Creek	305(b), appendix D	
149	17050113	2588	Lime Creek	Headwaters to Anderson Ranch Reserv	Boise National Forest Plan	
150	17050113	2590	Trinity Creek	Headwaters to S Fk Boise River	Boise National Forest Plan	
151	17050113	2593	Shake Creek	Headwaters to S Fk Boise River	305(b), appendix D	
152	17050113	5011	Bear Creek	Headwaters to Feather River	Boise National Forest Plan	
153	17050113	5064	Dog Creek	Headwaters to S Fk Boise River	Boise National Forest Plan	
154	17050113	5071	Elk Creek	Headwaters to Feather River	Boise National Forest Plan	
155	17050113	5076	Feather River	Pinto Creek to South Fk Boise River	Boise National Forest Plan	
156	17050113	5086	Green Creek	Headwaters to S Fk Boise River	Boise National Forest Plan	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
157	17050113	5089	Grouse Creek	Headwaters to S Fk Boise River	Boise National Forest Plan	
158	17050113	5120	Meadow Creek	Headwaters to Fall Creek	Boise National Forest Plan	
159	17050113	5157	Rock Creek	Headwaters to S Fk Boise River	Boise National Forest Plan	
160	17050114	2730	Sand Hollow Creek	Headwaters to Boise River	305(b), appendix D	
161	17050114	2733	Mason Creek	Headwaters to Boise River	305(b), appendix D	
162	17050120	2715	Deadwood River	Headwaters to Deadwood Reservoir	Boise National Forest Plan	
163	17050120	2721	Eightmile Creek	Headwaters to S Fk Payette River	Boise National Forest Plan	
164	17050120	5002	Alder Creek	Headwaters to S Fk Payette River	Boise National Forest Plan	
165	17050120	5009	Basin Creek	Headwaters to Deadwood Reservoir	Boise National Forest Plan	
166	17050120	5019	Big Pine Creek	Headwaters to S Fk Payette River	Boise National Forest Plan	
167	17050120	5133	Ninemile Creek	Headwaters to Deadwood River	Boise National Forest Plan	
168	17050120	5161	Scott Creek	Headwaters to Deadwood River	Boise National Forest Plan	
169	17050120	5196	Trail Creek	Headwaters to Deadwood Reservoir	Boise National Forest Plan	
170	17050120	5214	Whitehawk Creek	Headwaters to Deadwood River	Boise National Forest Plan	
171	17050120	5215	Wilson Creek	Headwaters to Deadwood River	Boise National Forest Plan	
172	17050121	2704	Anderson Creek	Headwaters to M Fk Payette River	Boise National Forest Plan	
173	17050121	2705	Lightning Creek	Headwaters to M Fk Payette River	Boise National Forest Plan	
174	17050121	2707	Silver Creek	Headwaters to M Fk Payette River	Boise National Forest Plan	
175	17050121	5031	Bulldog Creek	Headwaters to Big Bulldog Creek	Boise National Forest Plan	
176	17050121	5162	Scriver Creek	Headwaters to M Fk Payette River	Boise National Forest Plan	
177	17050122	2698	Little Squaw Creek	Headwaters to Squaw Creek	Boise National Forest Plan	
178	17050122	2699	Shafer Creek	Headwaters to Payette River	Boise National Forest Plan	
179	17050122	2700	Harris Creek	Headwaters to Shafer Creek	Boise National Forest Plan	
180	17050122	5187	Squaw Creek	Headwaters to Boise NF Boundary	305(b), appendix D	X
181	17050123	2890	Clear Creek	Headwaters to N Fk Payette River	Boise National Forest Plan	
182	17050123	2892	Beaver Creek	Headwaters to N Fk Payette River		
183	17050123	2893	Gold Fork River	Flat Creek to Cascade Reservoir	305(b), appendix D	X
184	17050123	5035	Campbell Creek	Headwaters to Cascade Reservoir	Boise National Forest Plan	
185	17050123	5074	Fawn Creek	Headwaters to N Fk Payette River	Boise National Forest Plan	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
186	17050123	5079	French Creek	Headwaters to Cascade Reservoir	Boise National Forest Plan	
187	17050123	5092	Hazard Creek	Headwaters to Cascade Reservoir	Boise National Forest Plan	
188	17050124	2848	Pine Creek	Headwaters to Weiser River	Boise National Forest Plan	
189	17050124	2853	Middle Fork Weiser River	Headwaters to Cabin Creek	SSOC-"s/t" fro CWB, SS and PCR	
190	17050124	2854	Cottonwood Creek	Headwaters to Weiser River	305(b), appendix D	
191	17050201	2831	Jenkins Creek	Headwaters to Snake River	305(b), appendix D	
192	17060101	2912	Deep Creek	Wilderness Boundary to Snake River	305(b), appendix D, SSOC-"p" for CWB	X
193	17060101	6912	Deep Creek	Headwaters to Wilderness Boundary	305(b), appendix D	
194	17060108	3120	Palouse River	Meadow Creek to Washington line		X
195	17060108	3121	Palouse River	Headwaters to Meadow Creek	305(b) appendix D	X
196	17060108	3127	Flat Creek	Headwaters to Palouse River	305(b) appendix D	
197	17060108	3129	Meadow Creek	Headwaters to Palouse River	305(b) appendix D	
198	17060108	3130	Strychnine Creek	Headwaters to Palouse River	305(b) appendix D, exceeds Forest Plan sediment standard	
199	17060108	3131	Little Sand Creek	Headwaters to Palouse River	305(b) appendix D, exceeds Forest Plan sediment standard	
200	17060108	3132	Big Sand Creek	Headwaters to Palouse River	305(b) appendix D, Watershed and Stream Condition Analysis	
201	17060108	3133	North Fork Palouse River	Headwaters to Palouse River	305(b) appendix D, CRITFIC, ICL, exceeds Forest Plan sediment standard	
202	17060108	3135	Paradise Creek	Headwaters to Palouse River (Washington State line)	305(b) appendix D, Idaho's 1994 list	X
203	17060108	5021	Blakes Fork	Headwaters to Meadow Creek	exceeds Forest Plan sediment standard	
204	17060108	5023	Bonami Creek	Headwaters to Little Sand Creek, Cr	exceeds Forest Plan sediment standard	
205	17060108	5067	Dry Fork	Headwaters to Strychnine Creek	exceeds Forest Plan sediment standard	
206	17060108	5098	Jerome Creek	Headwaters to Palouse River	exceeds Forest Plan sediment standard	
207	17060108	5118	Mannering Creek	Headwaters to EF Meadow Creek	Watershed and Stream Condition Analysis, 1992	
208	17060108	5208	Wepah Creek	Headwaters to EF Meadow Creek	exceeds Forest Plan sediment standard	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
209	17060108	5220	East Fork Meadow Creek	Headwaters to Meadow Creek	Watershed and Stream Condition Analysis, 1992	
210	17060201	3011	Salmon River	Headwaters to Hell Roaring Creek	Basin Status Report, SSOC-"p" for CWB and SS,	
211	17060201	3029	Squaw Creek	Forest boundary to Salmon River	305(b) appendix D	X
212	17060201	3031	Thompson Creek	Headwaters to Salmon River	305(b) appendix D	
213	17060201	3036	Yankee Fork	Headwaters to Jordan Creek	305(b) appendix D, Basin Status Report, SSOC-"p" for CWB and SS	X
214	17060201	3040	Valley Creek	Stanley Lake Creek to Salmon River	305(b) appendix D, Basin Status Report, SSOC-"n" for DWS, "p" for CWB, "S/t" for SS	X
215	17060201	3042	Stanley Lake Creek	Headwaters to Valley Creek	305(b) appendix D	
216	17060203	2995	Carmen Creek	Freeman Creek to Salmon River	305(b), appendix D	
217	17060204	3061	Kirtley Creek	BLM boundary to Lemhi River	305(b) appendix D	
218	17060204	3063	Geertson Creek	BLM boundary to ditch	305(b) appendix D	
219	17060204	3065	Bohannon Creek	BLM boundary to Lemhi River	305(b) appendix D	
220	17060204	3070	Sandy Creek	BLM boundary to Lemhi River	305(b) appendix D	
221	17060204	3072	Kenney Creek	BLM boundary to Lemhi River	305(b) appendix D	
222	17060204	3078	McDevitt Creek	Headwaters to BLM boundary	305(b) appendix D, Nonpoint Source Program	
223	17060204	3084	Little Eightmile Creek	Forest Boundary to Lemhi River	305(b) appendix D	
224	17060204	3086	Big Eightmile Creek	Forest Boundary to Lemhi River	305(b) appendix D	
225	17060204	3090	Big Timber Creek	Forest Boundary to Lemhi River	305(b) appendix D	
226	17060204	3093	Eighteenmile Creek	BLM boundary to Lemhi River	305(b) appendix D	
227	17060208	2929	Secesh River	Lake Cr. to Loon Cr.	305(b) appendix D, Basin Status Report, SSOC-"p" for CWB and SS	
228	17060208	2958	Curtis Creek	Headwaters to S Fk Salmon River	Boise National Forest Plan	
229	17060210	2864	Little Salmon River	Headwaters to Round Valley Creek	305(b) appendix D, SSOC-"p" for CWB and SS, Basin Status Report-"p" for CWB, SS, PCR	
230	17060302	5024	Boyd Creek	Headwaters to Selway River	Nez Perce Forest Plan	
231	17060302	5070	Elk City Creek	Headwaters to Selway River	Nez Perce Forest Plan	
232	17060302	5073	Falls Creek	Headwaters to Selway River	Nez Perce Forest Plan	
233	17060302	5081	Glover Creek	Headwaters to Selway River	Nez Perce Forest Plan	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
234	17060302	5082	Goddard Creek	Headwaters to Selway River	Nez Perce Forest Plan	
235	17060302	5090	Hamby Fork	Headwaters to O'Hara Creek	Nez Perce Forest Plan	
236	17060302	5134	Nineteenmile Creek	Headwaters to Selway River	Nez Perce Forest Plan	
237	17060302	5152	Rackliff Creek	Headwaters to Selway River	Nez Perce Forest Plan	
238	17060302	5202	Twentythree Mile Creek	Headwaters to Selway River	Nez Perce Forest Plan	
239	17060302	5207	Wart Creek	Headwaters to O'Hara Creek	Nez Perce Forest Plan	
240	17060303	3249	Walton Creek	Headwaters to Lochsa River	Exceeds Forest Plan sediment standard	
241	17060303	3255	Crooked Fork	Headwaters to Lochsa River	Exceeds Forest Plan sediment standard, SSOC-"p" for CWB and SS	
242	17060303	3256	Brushy Fork	Headwaters to Crooked Fork		
243	17060303	3257	Boulder Creek	Headwaters to Crooked Fork	exceeds Forest Plan sediment standard	
244	17060303	5004	Badger Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
245	17060303	5036	Canyon Creek	Headwaters to Mystery Creek	exceeds Forest Plan sediment standard	
246	17060303	5037	Upper Canyon Creek	Mystery Creek to Lochsa River	Clearwater National Forest Mon./Eval. Report 1992	
247	17060303	5057	Deadman Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
248	17060303	5062	Doe Creek	Headwaters to Squaw Creek	exceeds Forest Plan sediment standard	
249	17060303	5068	East Fork Deadman Creek	Headwaters to Deadman	exceeds Forest Plan sediment standard	
250	17060303	5080	Glade Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
251	17060303	5132	Mystery Creek	Headwaters to Canyon Creek	exceeds Forest Plan sediment standard	
252	17060303	5137	Nut Creek	Headwaters to Pete King Creek	exceeds Forest Plan sediment standard	
253	17060303	5138	Papoose Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
254	17060303	5139	Parachute Creek	Headwaters to Papoose Creek	exceeds Forest Plan sediment standard	
255	17060303	5142	Pete King Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
256	17060303	5147	Placer Creek	Headwaters to Pete King Creek	exceeds Forest Plan sediment standard	
257	17060303	5151	Postoffice Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
258	17060303	5166	Shoot Creek	Headwaters to Spruce Creek	exceeds Forest Plan sediment standard	
259	17060303	5167	Shotgun Creek	Headwaters to Crooked Fork	exceeds Forest Plan sediment standard	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
260	17060303	5183	South Fork Canyon Creek	Headwaters to Canyon Creek	exceeds Forest Plan sediment standard	
261	17060303	5188	Squaw Creek	Headwaters to Lochsa River	exceeds Forest Plan sediment standard	
262	17060303	5205	Walde Creek	Headwaters to Pete King Creek	exceeds Forest Plan sediment standard	
263	17060303	5210	West Fork Pete King Creek	Headwaters to Pete King Creek	exceeds Forest Plan sediment standard	
264	17060303	7183	Spruce Creek	Headwaters to Brushy Creek	exceeds Forest Plan sediment standard SSOC-"p" for CWB and SS	
265	17060304	3281	Clear Creek	Headwaters to M Fk Clearwater River	Nez Perce Forest Plan	
266	17060304	3282	Maggie Creek	Headwaters to M Fk Clearwater River	Nonpoint Source Assessment	
267	17060304	5027	Browns Spring Creek	Headwaters to Clear Creek	Forest Service data	
268	17060304	5110	Little Tinker Creek	Headwaters to M Fk Clearwater River	Forest Service data	
269	17060304	5113	Lodge Creek	Headwaters to M Fk Clearwater River	Nez Perce Forest Plan	
270	17060304	5145	Pine Knob Creek	Headwaters to Clear Creek	Nez Perce Forest Plan	
271	17060304	5180	Solo Creek	Headwaters to M Fk Clearwater	Nez Perce Forest Plan	
272	17060305	3303	American River	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
273	17060305	3304	Little Elk Creek	Headwaters to Big Elk Creek	SSOC-"p" for CWB and SS	
274	17060305	3306	Red River	Seigel Creek to S Fk Red River	Nez Perce Forest Plan	
275	17060305	3307	South Fork Red River	Headwaters to Red River	Nez Perce Forest Plan	
276	17060305	5005	Baldy Creek	Headwaters to Newsome Creek	Nez Perce Forest Plan	
277	17060305	5010	Baston Creek	Headwaters to Red River	Nez Perce Forest Plan	
278	17060305	5012	Bear Creek	Headwaters to Newsome Creek	Nez Perce Forest Plan	
279	17060305	5017	Big Elk Creek	Headwaters to Elk Creek	Nez Perce Forest Plan	
280	17060305	5025	Bridge Creek	Headwaters to Red River	Nez Perce Forest Plan	
281	17060305	5029	Buckhorn Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
282	17060305	5052	Crooked River	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
283	17060305	5058	Deadwood Creek	Headwaters to Red River	Nez Perce Forest Plan	
284	17060305	5061	Ditch Creek	Headwaters to Red River	Nez Perce Forest Plan	
285	17060305	5072	Fall Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
286	17060305	5078	Flint Creek	Headwaters to E Fk American River	Nez Perce Forest Plan	
287	17060305	5087	Green Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
288	17060305	5091	Haysfork Creek	Headwaters to Newsome Creek	Nez Perce Forest Plan	
289	17060305	5103	Kirks Fork	Headwaters to American River	Nez Perce Forest Plan	
290	17060305	5105	Leggett Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
291	17060305	5106	Lick Creek	Headwaters to American River	Nez Perce Forest Plan	
292	17060305	5107	Lightning Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
293	17060305	5122	Meadow Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
294	17060305	5124	Middle Fork Red River	Headwaters to W Fk Red River	Nez Perce Forest Plan	
295	17060305	5128	Moose Butte Creek	Headwaters to Red River	Nez Perce Forest Plan	
296	17060305	5129	Moose Creek	Headwaters to SF Clearwater	Nez Perce Forest Plan	
297	17060305	5131	Mule Creek	Headwaters to Newsome Creek	Nez Perce Forest Plan	
298	17060305	5141	Peasley Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
299	17060305	5144	Pilot Creek	Headwaters to Newsome Creek	Nez Perce Forest Plan	
300	17060305	5153	Red Horse Creek	Headwaters to Red River	Nez Perce Forest Plan	
301	17060305	5155	Relief Creek	Headwaters to Crooked River	Nez Perce Forest Plan	
302	17060305	5159	Santiam Creek	Headwaters to S Fk Clearwater River	Nez Perce Forest Plan	
303	17060305	5160	Schooner Creek	Headwaters to S Fk Red River	Nez Perce Forest Plan	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
304	17060305	5163	Sears Creek	Headwaters to S Fk Clearwater River	Forest Service data	
305	17060305	5168	Siegel Creek	Headwaters to Red River	Nez Perce Forest Plan	
306	17060305	5170	Sixmile Creek	Headwaters to Tenmile Creek	Nez Perce Forest Plan	
307	17060305	5179	Soda Creek	Headwaters to Red River	Nez Perce Forest Plan	
308	17060305	5197	Trail Creek	Headwaters to Red River	Nez Perce Forest Plan	
309	17060305	5198	Trapper Creek	Headwaters to Red River	Nez Perce Forest Plan	
310	17060305	5212	West Fork Red River	Headwaters to South Fork Red River	Nez Perce National Forest Plan	
311	17060305	5213	Whiskey Creek	Headwaters to S Fk Clearwater River	Nez Perce National Forest Plan	
312	17060306	3138	Fivemile Creek	Headwaters to Clearwater R.	305(b) appendix D	
313	17060306	3144	Sweetwater Creek	IR Boundary to Lapwai Creek	305(b) appendix D	
314	17060306	3147	Mission Creek	Headwaters to IR Boundary	305(b) appendix D, CRITFIC, DEQ, IDL, SSOC-"s/t" for CWB and SS, "n" for PCR, "p" for SCR	X
315	17060306	3151	Little Potlatch Creek	Headwaters to IR Boundary	305(b) appendix D	X
316	17060306	3154	Little Bear Creek	Headwaters to Big Bear Creek	305(b) appendix D	X
317	17060306	3160	Cottonwood Creek	Headwaters to Clearwater River	305(b) appendix D, Idaho's 1994 list	X
318	17060306	3163	Jacks Creek	Headwaters to Clearwater	305(b) appendix D, CRITFIC,	X
319	17060306	3165	Little Canyon Creek	Headwaters to Big Canyon Creek	305(b) appendix D, CRITFIC,	
320	17060306	3170	Whiskey Creek	Headwaters to Orofino Creek	305(b) appendix D	
321	17060306	3174	Lolo Creek	Headwaters to Eldorado Creek	SSOC-"p" for CWB and SS, Idaho's 1994 list	
322	17060306	3175	Eldorado Creek	Headwaters to Lolo Creek	exceeds Forest Plan sediment standard, Idaho's 1994 list, SSOC-"p" for CWB and SS	
323	17060306	3177	Musselshell Creek	Headwaters to Lolo Creek	305(b) appendix D, ICL, CRITFIC, temp. data from Clearwater National Forest personnel	
324	17060306	3178	Yoosa Creek	Headwaters to Lolo Creek	Watershed summary for Clearwater National Forest, SSOC-"p" for CWB and SS	
325	17060306	5039	Chamook Creek	Headwaters to Yoosa Creek	exceeds Forest Plan sediment standard	
326	17060306	5065	Dollar Creek	Headwaters to El Dorado Cr	exceeds Forest Plan sediment standard	
327	17060306	5075	Feather Creek	Headwaters to W Fk Potlatch River	exceeds Forest Plan sediment standard	

	HUC	WQLSEG	WATER BODY	BOUNDARY	COMMENTS	MONITOR
328	17060306	5083	Gold Creek	Headwaters to Musselshell Creek	exceeds Forest Plan sediment standard	
329	17060306	5148	Porcupine Creek	Headwaters to Potlatch River	exceeds Forest Plan sediment standard	
330	17060306	5194	Tom Taha Creek	Headwaters to Clearwater R.	305(b) appendix D	
331	17060306	7180	Willow Creek	Headwaters to Lawyer Creek	305(b) appendix D, CRITFIC,	X
332	17060306	7181	Lawyer Creek	IR Boundary to Clearwater River	305(b) appendix D	X
333	17060306	7182	Camp Creek	Headwaters to Yoosa Creek	Exceeds Forest Plan sediment standard SSOC-"p" for CWB and SS	
334	17060308	5001	Adair Creek	Headwaters to Little NF Clearwater	Forest Service Information	
335	17060308	5158	Rutledge Creek	Headwaters to Little NF Clearwater	Forest Service Information	

1.6 IDAHO DIVISION OF ENVIRONMENTAL QUALITY WORKING RULES AND ASSUMPTIONS FOR COMPILING IDAHO'S 1998 303(d) LIST.

DEQ provided the public two separate opportunities to review the working rules and assumptions for compiling the draft 1998 303(d) list. The first opportunity was in the Public Notice DEQ filed in November 1997 through January 1998. The second chance was in May of 1998 with the draft 303(d) package. The working rules and assumptions have been revised as set forth below, to better reflect DEQ's position with respect to several critical issues after review and evaluation of public comments.

1. DEQ relied heavily on Beneficial Use Reconnaissance Project (BURP) data and assessments of this data using the 1996 Water Body Assessment Guidance process and all errata, additions, and supplements to the 1996 Guidance. Assessment calls for Not Full Support (NFS), Full Support (FS) and Needs Verification (NV) were evaluated for listing and delisting purposes. Not Assessed (NA) means the water body or a particular beneficial use could not be evaluated even after visiting the site (i.e. dry, beaver complex, water too deep and swift, no fish data, etc.) and was not evaluated for listing or delisting purposes.

2. Water bodies from the 1996 303(d) list with Not Full Support assessment calls remain on the list for 1998.

3. Water bodies on the 1996 303(d) list with Needs Verification assessment calls stay on list for 1998.

4. DEQ proposes to add "new" water bodies to the 1998 list. These are water bodies not on the 1996 303(d) list. They have been determined to not fully support existing or designated beneficial uses. However, DEQ has not identified the specific pollutants causing the impairment. While DEQ is able to distinguish impaired from not-impaired conditions using BURP data, it is unable to establish clear causative relationships between impaired conditions and specific pollutants with BURP alone.

   Further, a water body need not be included on the list if the application of existing required pollution controls would achieve water quality standards and restore full support status. However, at this time DEQ is uncertain of the adequacy of any such existing pollutant controls for these "new" water bodies.

   When DEQ published the draft 1998 303(d) list, it included in the material provided to the public, an invitation to provide information and comments relating to the addition of these water bodies to the 1998 303(d) list, including, but not limited to, information relating to the following: (a) the identification of significant sources of pollution affecting these water bodies by past and present activities; and (b) whether the application of required or

cost-effective pollution control strategies or controls would restore the water body to full support within a reasonable period of time. DEQ received no information indicating pollution controls would achieve water quality standards and restore full support of beneficial uses in these water bodies in the next two years, therefore, these new water bodies remain on the final 1998 303(d) list.

These water bodies will be scheduled for Total Maximum Daily Loads (TMDL) starting in 2006, since Idaho has an existing, court-approved TMDL schedule. This doesn't mean they will all be done in 2006, merely that they will be scheduled for 2006 and beyond. These "new" TMDLs will have to come after those currently in progress or scheduled. However, should resources and circumstances allow, these added water bodies could be scheduled for TMDLs sooner. This would be determined on a case by case basis.

5. Under the Clean Water Act §303(d) and U.S. Environmental Protection Agency regulation (40 CFR 130.2(J), 130.7), states are given authority to determine which waters do not meet water quality standards or have impaired beneficial uses. Furthermore, Idaho water quality standards (IDAPA 16.01.02.054 01., 02) allow DEQ to evaluate whether required control technologies, if applied, would restore beneficial use to full support. Hence DEQ has elected, for purposes of Idaho's 1998 303(d) list, not to list "new" streams falling in the Needs Verification category, according to the 1996 Water Body Assessment Guidance. In some cases DEQ is unable to read the "biological signal" after monitoring and interpreting the data. In these situations, the Division is not sure if the signal represents an impairment or merely a mediocre or misclassified stream. Hence, DEQ will not classify these streams as water quality limited until further monitoring and analysis can be performed as referenced above.

6. Section 303(d) of the Clean Water Act only requires TMDLs be calculated for those "pollutants" which the administrator of EPA has identified as suitable for such calculation. 303(d)(1)(C). The administrator of EPA identified all pollutants as suitable for TMDL calculation. 43 Fed. Reg. 60662 (Dec. 28, 1978). Therefore, whether a TMDL must be calculated depends upon whether a "pollutant" as defined in the Clean Water Act is involved.

   The definition of "pollutant" in § 502(6) of the Clean Water Act includes a number of listed materials and categories of materials. The alteration of water flow and aquatic habitat are not among those items specifically identified as a pollutant in the definition, and also do not fit within any of the general categories of pollutants, such as industrial and agricultural wastes. In addition, EPA, in its comments on Idaho's Draft 303(d) list, appears to agree that the alteration of flow or habitat are not pollutants. Therefore, the state will not identify these as pollutants or list waters that are impaired solely as a result of flow or habitat alteration.

DEQ did remove some water bodies that were listed for flow or habitat alteration. However, these water bodies were not removed because they were listed for these parameters; instead, they were removed because the scientific data collected by DEQ established compliance with water quality standards and full support of uses.

While not pollutants, flow and habitat alteration are often the result of or reflected 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 also may be affected by a lack of water flow. If the impairment is at least in part the result of excess sediment, the water body will be listed on the 303(d) list.

While not suitable for TMDL calculation, flow and habitat alteration are important factors affecting water quality and may be appropriately taken into account under other water quality programs.

7. Significant issues about water temperature criteria for cold water biota, salmonid spawning and bull trout were raised during the public comment period. Upon close inspection of DEQ's and others' temperature data, coupled with biology occurring in those waters, DEQ came to the realization that serious questions exist with regard to Idaho's current water temperature standard and its application. This situation is fully described in Chapter 3 of this document. In essence, DEQ is unable to distinguish temperature exceedances due to natural conditions from those caused by humans activities. DEQ does not want to identify streams water quality limited when their uses are supported despite temperature criteria violations, or be forced to write TMDLs to reduce stream temperatures where such actions are not warranted or even possible. Therefore DEQ is taking the following steps with regard to water temperature:

    - A study will be conducted aimed at producing data to support new water temperature criteria;
    - All streams which would be listed for temperature on the 1998 303(d) list, both carryovers from the 1996 list and those determined to have major temperature exceedance during the 1998 303(d) process, are placed on a separate list (see Chapter 3);
    - Those streams on the temperature list referenced above will be re-evaluated once new water temperature standards are developed and implemented; and
    - TMDLs for temperature will be postponed for streams on this list for approximately 18 to 24 months, to allow time for the collection of data and development of new water quality standards to take effect.

8. Some water bodies from the 1996 303(d) list were "dry" at the time of monitoring. This presents a unique problem for DEQ since there are no pollutants to identify or allocate and no uses to protect. Under these conditions, a TMDL could not be done in the traditional sense of a load in mass per unit time. In cases where the 1996 303(d) listed water body was dry, DEQ has elected to keep it on the list for 1998. It is the intent of DEQ to collect more information such that a sound analysis can be made regarding the appropriate beneficial use of such waters. This type of analysis and rationale are envisioned as part of a subbasin assessment.

9. Some of the waters listed on Idaho's 1998 303(d) list may be wholly or in part within Indian Reservations and/or on lands held by tribal members subject to a restriction on alienation or held by the United States in trust for Indian Tribes. Including these waters on the 1998 303(d) list does not constitute a determination, waiver, admission or a statement on the part of the State of Idaho with respect to jurisdiction over such waters.

10. "Threatened" waters and potential declining waters are those waters where a downward trend or significant statistical decline (IDAPA 16.01.02.003.55) in water quality can be demonstrated through data. Please see response to public comments, in the section entitled assessment process/DEQ policy for a further explanation on how DEQ handled threatened waters.

11. Any exceptions to these assumptions will be referenced in the list itself or associated appendices.

ATTACHMENT 1.1 IDAHO DIVISION OF ENVIRONMENTAL QUALITY STREAM ASSESSMENT PROCESS PAPER

History of Rapid Bioassessment

The use of biology as indicators of environmental change or condition has been with us for a long time. Aristotle, who is credited with dabbling in nearly every known area of modern science, placed freshwater fish in salt water to observe their reactions. Sesto Giulio Frontion, who was the chief engineer for water in ancient Rome, monitored the health of local residents near the city's water source as a way to ensure the safety of the public at large.

Modern biomonitoring begins in Europe in the early 20th century. Here, Kolwitz and Marsson codified the study of microbiota into a system that could be used to gauge the severity of organic pollution, termed the Saprobien system in 1908 (Hynes 1993). The use of microbiota was further expanded by Kolkwitz in 1950 by focusing in on individual species of animals and plants with numeric ratings. Thus, the early science of biomonitoring began to focus on "indicator" organisms as the key to man's influence and effects on the environment.

At the same time others in the biomonitoring arena were stressing the nature of the community over the individual as a better indicator of environmental impact or condition. Dr. Ruth Patrick was a leader in this idea though her work with algae. She introduced the idea that the structure of the community is more relevant than a mere list of species. Indices of pollution were developed by scientists in place of the indicator species. The work of Wright and Tidd (1933) is considered by some to be the first to apply the "index" concept.

Hilsenhoff (1977) combined the idea of the saprobic system with the notion of index into a biotic index that relied on fish communities and information about the individual species within the community as the indicator of water (organic) pollution. Hilsenhoff revised his original biotic index in 1982 and 1987. He then developed a popular family-level biotic index for screening water quality (Hilsenhoff 1988). This family-level index has since been modified by others around the U.S. and applied on a regional scale (Davis 1995). Here is an appropriate place to define biomonitoring as it is being used today: **"Biological monitoring can be defined as the systematic use of biological responses to evaluate changes in the environment with the intent to use this information in a quality control program"** (Rosenberg and Resh 1993).

All of these biomonitoring measures attempt to quantify stress on the biotic community. Basic ecology has been brought to bear on the questions and solutions surrounding the use of biota (biology) to gauge environmental change (Plafkinet, et al. 1989, Hynes 1993). The ecological approach to the use and interpretation of biomonitoring data has shown the

close connection and interrelatedness of biotic and abiotic components of ecosystems. Thus, well balanced biomonitoring programs involve physical habitat structure, chemical, and biological measurements.

Rapid biomonitoring assessment, also known as Rapid Bioassessment Protocols (RBP), was developed through the work of Plafkin, et al. (1989). Rapid biomonitoring means **"to expend the minimum amount of effort to get reproducible, scientifically valid results"** (Lenat and Barbour 1995). Plafkin, et al. (1989), and others developed the RBP methodology in response to several national initiatives on surface water monitoring (EPA 1987, EPA 1988, USGAO 1988) and the need for cost-effective biological techniques in view of reduced budgets and manpower at both the state and federal levels.

The RBPs as designed by Plafkin, et al. (1989), were a blend of existing methods that were in use by other states at that time, notably Ohio EPA, Florida Department of Environmental Protection, Delaware Department of Natural Resources and Environmental Control, Massachusetts DEP, Kentucky DEP, and Montana DEQ. Protocols for three aquatic assemblages (macroinvertebrates, fish, and periphyton) were described as possible assessment tools. Different levels of intensity existed, each one progressively requiring more resources to conduct, as well as more technical expertise to numerate and interpret (i.e., I, II and III). The objective of all three levels was to provide inexpensive screening tools for determining if a stream was supporting or not supporting a designated aquatic life use (EPA 1997).

Evolution of RBPs as water quality assessment tools has continued over the last nine years. Today nearly three-quarters of the states use bioassessment data to measure the attainment of their aquatic life uses, and all but three states use bioassessment in some manner in their water resource activities according to a report by Davis, et al. (1996), for EPA. Most states are relying on macroinvertebrates and fish, while a few also use algae or periphyton assemblages in their bioassessment programs.

In addition to states, federal agencies and other countries have adopted similar biomonitoring techniques as the RBPs (EPA 1991 EMAP, Bournaud, et al. 1996, and Zamora-Munoz and Alba-Tercedor 1996). The U.S. Geological Survey has a national biomonitoring program known as the National Water Quality Assessment Program (NAWQA). The objective of this program is to describe the status of, and trends in, the quality of the nations's surface and ground-water resources and to provide an understanding of the natural and human factors that affect the quality of these resources (Hirsch, et al. 1988 and Leahy, et al. 1990). Approximately 60 large watersheds across the country are being monitored and water quality evaluated based largely on bioassessment (Maret 1995). The Upper Snake River Basin is one of the 60 large watersheds in this program.

Shift from Traditional Water Quality Monitoring to Biomonitoring

Why the emphasis on bioassessment and biomonitoring? As described above, it is faster, cheaper and, by and large, results in better evaluation of human impacts to water quality. This comes about because water quality standards are set up to protect certain beneficial uses. Biomonitoring and assessment go right to the beneficial use, be they macroinvertebrates or fish, instead of relying on an array of individual parameters, such as pH or dissolved oxygen, to describe the conditions believed needed to support those uses.

Traditional water quality monitoring focused on specific numeric water quality standards that centered on the chemistry of water. This is due to the fact that the first aspect of pollution control dealt with drinking water and human waste water. Engineers were generally in the driver's seat because they designed the control facilities and structures to deal with these two critical water quality elements. Engineers, besides being well educated in engineering and design principles, were also well disciplined in chemistry. Since engineers were designing control measures that dealt with specific elements being released or discharged into water, water quality standards, such as pH, dissolved oxygen, biological oxygen demanding compounds, temperature, and nutrients, went down the same road. This was quantitative chemistry for which engineers and science had a good understanding and techniques to monitor.

Great strides were made in controlling these discharges or releases into surface waters. In fact, that is the success story of the Clean Water Act's first 25 years. However, there is a limitation to merely looking at chemical characteristics of water quality. What we have learned is discharges and releases are very episodic in nature, that is, they occur sporadically, especially outside of a waste water treatment or industrial plant, also known as point sources of pollution. Thus, monitoring that looked solely at chemical characteristics very frequently missed the big event or pulse being discharged to surface waters (Livingston, et al. 1997). If you don't sample during an event, your water column sample looks good and passes all the appropriate chemical standard tests, but what about the biota living in those waters?

While improvements have been made in controlling point source pollution, the next biggest challenge is nonpoint source pollution control (NPS). Nonpoint source pollution is diffuse in both space and time, that is, it does not originate from a single place or time, such as a pipe. "Programs to control nonpoint sources of pollution remain largely unsuccessful because of the difficulties involved in applying point-source approaches to diffuse nonpoint source problems" (Karr 1991). As recently as 1995, EPA identified nonpoint sources as the main culprit in declining water quality around the U.S. since point sources were the first type of pollution to receive serious control efforts (EPA 1995). In fact, the U.S. has spent upwards of $473 billion dollars to build, operate and administer water pollution control facilities since 1970, and yet the nation's waters continue to decline (Water Pollution Control Federation 1991). Ohio found nearly 50% more impaired waters by looking at biology versus nonbiological methods (Yoder and Rankin

1995). Yoder and Rankin (1995) concluded that nonbiological methods of water quality assessment underestimated human impact in this study.

Biomonitoring and assessment is not the silver bullet for gauging human impacts to water quality; the state of the science is still evolving. However, Idaho and several adjoining states in the region have elected to use this type of tool for determining water quality impairment and beneficial use support. Oregon, Washington, and Montana are using a very similar process to Idaho (Mulvey, et al. 1992, Wisseman 1996, Plotnikof and Ehinger 1997, Bahls 1996).

Idaho Experience with Rapid Bioassessment

There are a number of studies that have occurred in Idaho, both by DEQ and others, that have employed Rapid Bioassessment (RBP) methods. Common themes among these studies were time saved, money saved, and the fact that biology was used in the form of one or multiple aquatic assemblages as an integrator of water quality. Within DEQ, biological monitoring of Idaho's waters has been conducted since the early 1970s. Bauer (1981a,b) looked at macroinvertebrates and algae to assess water quality for major river basins in the state. Over a ten-year period during the 1980s, the Rock Creek Rural Clean Water Program (RCWP) resulted in the most intensive macroinvertebrate and fish data set collected by DEQ for the purposes of water quality assessment Maret (1991).

Idaho's Antidegradation Agreement in 1989 resulted in a Coordinated Monitoring Program for Idaho (Clark 1990) which stressed the importance of biological and physical habitat monitoring. This agreement was supported by the Governor's Office and the various state and federal agencies and environmental groups in Idaho. The agreement resulted in a series of eight monitoring protocols published by DEQ which were an attempt to standardize the collection and use of biological and physical habitat data. Clark and Litke (1991) looked at macroinvertebrates and fish in assessing water quality conditions in Cedar Draw in relation to agricultural nonpoint source pollution. McIntyre (1993a) looked at fish and macroinvertebrates in comparing differences between two streams subjected to different levels of management. Students of Dr. Brusven at the University of Idaho have used macroinvertebrates to assess the effects of sedimentation and a major gasoline spill (McClelland and Brusven 1980, Pontasch and Brusven 1988). Students of Dr. Minshall at Idaho State University have also looked at macroinvertebrates to gauge impacts from wildfire (Minshall, et al. 1995) and flow regime (Robinson and Minshall 1993).

Other state and federal agencies in Idaho are using biomonitoring and assessment to gauge impacts from various land use practices, such as timber harvest (Burton 1993), grazing (Platts 1991), mining (Martin and Platts 1981), or agriculture (Bauer 1994). Two main points are demonstrated by the above: (1) biomonitoring and assessment have been around for a long time, and (2) these methods have been used by a plethora of entities to better understand man's impacts on water quality.

Beneficial Use Reconnaissance Project

DEQ investigated the feasibility of implementing the ISU biomonitoring methodology in late 1992. By this time ISU had two years' worth of sampling experience. Each year ISU adjusted or refined the process as more data was accumulated and analyzed. DEQ's critical review of the study determined which specific methods could be employed given laboratory cost, equipment availability, manpower, and training. DEQ elected to drop the chemical sampling portion due to holding time and quality control issues, otherwise the ISU study design was adopted in full (McIntyre 1993b). The initial pilot was run at three DEQ regional offices: Boise, Twin Falls, and Pocatello. One three-person crew was assigned to each regional office. A range of sites and water bodies were sampled, following the ISU strategy, to compare obvious impacted versus minimally impacted. Approximately 130 sites were inventoried in 1993.

In 1994, the project was expanded statewide due to its success with production and costs in 1993. In addition, this was an opportunity to standardize DEQ's water quality biomonitoring and tie results to in-stream beneficial uses. Up to this point monitoring was done according to regional office needs and priorities. Some changes to the BURP process occurred in 1994. These came about from input received from a Technical Review Group of senior DEQ water quality monitoring personnel. The biggest change for 1994 was a shift from the Plafkin, et al. (1989) habitat assessment form to the one developed by the EPA Region 10 Bioassessment Work Group (Hayslip 1993). The Region 10 Work Group is made up of water quality specialists from Oregon, Washington, Idaho, and Alaska. They meet every year to discuss advancements in biomonitoring methods and assessments. The Hayslip habitat form was judged more relevant to Idaho since it was put together for and by regional experts. The second change for 1994 was the emphasis on training and quality assurance along with focusing on water bodies listed on the 1994 303(d) list.

Things changed very little in 1995 and 1996, though site selection continued to focus on 303(d) water bodies (DEQ 1995 and 1996). A pilot project looking at relationships between water temperature and various vegetation surrogates was investigated. In 1996, another pilot looked at the differences between the zig zag and Wolman pebble count methods. In 1997, many regional offices had finished the wadable streams on the 1994 303(d) list and began looking at non 303(d) streams. In addition, DEQ implemented a reservoir and large river monitoring project since approximately 39 water bodies and 100 water bodies existed in these two categories respectively (DEQ 1997). Of the 2,151 sites monitored between 1993 and 1996 and then assessed for the 1998 303(d) list, 979 or 45%, were on "nonlisted" water bodies. Thus, the argument that DEQ's MBI or habitat reference benchmarks may be biased because the data comes from sites listed on the 1994 303(d) list and hence suspect is <u>not</u> supported by the numbers.

The Development of DEQ's Macroinvertebrate Biotic Index

As noted above, the RBP document by Plafkin, et al. (1989) really got the biomonitoring and bioassessment idea in front of everyone as a sensible approach to measuring human

impacts on water quality. In response to this renaissance in biomonitoring/assessment, DEQ contracted with Idaho State University (ISU) to develop an Idaho specific biomonitoring/assessment methodology using the RBP as a model. They started with the basic RBP structure and modified it where the data or analysis suggested increaseability to discriminate human influence (Robinson and Minshall 1991, Robinson and Minshall 1992, Robinson and Minshall 1995). The most comprehensive review of this work was recently published in *Great Basin Naturalist* (Robinson and Minshall 1998).

As more and more streams were surveyed under this study, refinements in sampling and analysis evolved. A suite of physical habitat parameters and some basic chemistry were measured at each stream along with macroinvertebrates and fish. A range of conditions were selected to capture variability across a continuum of conditions, for example, sites with little to no human influence to those with obvious impairment. From a suite of possible metrics ISU settled on seven different macroinvertebrate metrics that made up their composite biotic index. Metrics were selected for their power to distinguish impacted from nonimpacted waters. ISU used the same scoring scheme as the RBP for macroinvertebrates and habitat, with similar impairment categories (i.e., 5 for least impacted sites and 1 for impacted). They established ecoregional references for habitat, macroinvertebrates, and fish based on the data gathered through monitoring. These reference conditions are the backbone to the bioassessment process; they constitute the benchmarks for comparing streams. ISU worked in two ecoregions for the first two years of the study, the Snake River Basin (SRB) and Northern Basin and Range (NBR) (Omernik and Gallant 1986) Omernik and Gallant delineated eight ecoregions in Idaho, though three of them comprise well over 75 percent of the state: Snake River Basin, Northern Basin and Range, and Northern Rockies.

In January 1995, DEQ sat down to review and analyze the data collected in 1993 and 1994 through BURP. DEQ was unable to pick with confidence regional reference sites—sites that would form the basis for all comparisons in determining whether or not a water body was impaired. While this was not a problem for the SRB and NBR ecoregions since ISU had set reference conditions, there were no reference conditions set for the Northern Rockies ecoregion. Also, DEQ noted a high degree of variation in the habitat evaluation and scoring process. In many instances the overall habitat rating did not match with "a priori" judgment of water body condition nor with the biotic index as calculated using the ISU procedure.

Changes in the Macroinvertebrate Biotic Index

In response to these two drawbacks, DEQ reevaluated the ISU study, especially the metrics making up the biotic index and habitat evaluation/rating. Twelve metrics were considered, including all those used in the original ISU study and those found meaningful in other Pacific Northwest states (%EPT, HBI, %Scrapers, EPT Index, Taxa Richness, %Dominance, Shannon's Diversity Index, %Shredders, Total Abundance, %Filterers, Ratio of Scrapers to Filterers and EPT to Chrionomidae Ratio). Scatter plots of individual

metric scores against total biotic score and habitat score were examined. Those that suggested a relationship were regressed against the total biotic score. Significance was set at an $r^2 \geq 0.30$. Out of this analysis, seven metrics emerged that were incorporated into DEQ's MBI (%EPT, HBI, %Scrapers, %Dominance, EPT Index, Taxa Richness and Shannon's Diversity Index). DEQ's MBI uses a multi-metric index (i.e., an index made up of several individual metrics looking at macroinvertebrate structure and function).

A method for discerning reference had to be chosen. To do this, DEQ selected the highest ecoregion metric score for each individual metric. This ecoregional high was then set at one and all lower scores were normalized to this value. The data was then plotted in rank order. Slope breaks were noted at specific areas in the curves between 2.7 and 3.1 for component metrics and ecoregions. These breaks were more pronounced in small data sets ($n \leq 50$) and tended to smooth out as a data set increased. Hughes (1995) commented that curve inflection and curve breaks are sometimes used to determine acceptable or unacceptable index values. The range was arbitrarily widened to 2.5 and 3.5 as a more conservative assumption. It was deemed better to commit a type II error, not calling a BURP site "Not Impaired" when in fact it was, versus a type I error, calling a site "Not Impaired" when in fact it may not be. Three categories were thus created in this process; Not Impaired, Needs Verification and Impaired. Not Impaired indicated that the MBI score and hence the macroinvertebrate community at that site was within ranges that would be expected in minimally impaired water bodies. Impaired means the MBI score was indicative of water bodies experiencing impairment as set by the theoretical reference condition for that ecoregion. This would mean the kinds of macroinvertebrate organisms found at that site were more dissimilar than those that would be found in a minimally impaired site, again based on the constructed ecoregion reference condition. Needs Verification would mean the various aquatic assemblages (i.e., macroinvertebrates, fish) did not allow DEQ to make a definite statement on status. This area represents a gray zone in which the water body may be impaired or merely mediocre.

Water Body Assessment Guidance

In 1996 DEQ developed the Water Body Assessment Guidance to formalize its assessment of BURP data as well as water quality data from outside DEQ (DEQ 1996). This guidance was developed to provide a consistent method to assess water bodies in Idaho. It is a decision tree that takes water quality data and determines existing beneficial uses, use support status, and whether state water quality standards are being met for a water body. DEQ incorporated assorted "tools" for evaluating biological data for purposes of determining beneficial use support status. The following tools were added in section 2300 of WBAG: MBI, RIBI, ABI and HI.

The strength of this process is its ecological underpinnings. It evaluates biological beneficial uses directly, such as salmonid spawning or cold water biota, as well as numeric and narrative criteria designed to protect those beneficial uses. Ultimately, this guidance provides statewide consistency in process application and hence results. This guidance is

a "dynamic" or living document, that describes an assessment process, one that is expected to change as DEQ collects better information and the science of bioassessment evolves.

When the guidance was in draft, DEQ convened a Technical Review Committee (TRC) of scientists with disciplines in stream ecology, hydrology, fisheries, and statistics. Their job was to review the guidance in light of the mission statement: a process in which QA/QC controlled water quality data is used to make decisions on existing beneficial uses, beneficial use support status, and beneficial use attainability. They were expected to review the document in the context of the mission statement above, note critical technical issues, and suggest solutions based on supporting documentation or studies. Comments and recommendations were received and reviewed by DEQ. DEQ then finalized the Water Body Assessment Guidance and published it in August 1996.

Changes in the Water Body Assessment Guidance

In October 1996, DEQ began the actual process of assessing BURP data using the guidance. As with any new process, challenges were experienced as DEQ moved into applying the guidance. In response to these challenges, DEQ published an errata and an addendum in December 1996, that corrected some errors and clarified what to do when "needs verification" occurred because of habitat (see section 2300 Ecological Indicators in WBAG). Instead of quitting at the needs verification point, it was suggested that we look to other measures or assemblages for status. This came about because of some inconsistencies that started to appear in the BURP data with habitat, notably which habitat parameters were collected and how they were measured and rated.

Further, DEQ staff began to question how the habitat reference conditions were set as well as question giving habitat equal weight to biology. Again, due to the lack of reference conditions across the state, DEQ elected to use a trisection method to determine habitat reference benchmarks by ecoregion (Fausch, et al. 1986, Karr, et al. 1986). In this methodology the habitat scores between 5% and 95% were trisected, the upper one-third being considered minimally impaired, the middle third being needs verification and the bottom third being impaired water bodies based on habitat. DeShon (1995) used a very similar method to quadrisect the range of biotic scores for the Ohio assessment process, "When it was decided if a direct, inverse, combination of both, or no relation existed, the appropriate 95 percentile line was estimated and the area beneath partitioned into four equal parts. . ."

Besides questioning equal weight for biology and habitat in the assessment process, DEQ became concerned with some inconsistencies and variability in how crews chose habitat parameters for ratings and the weighting of those parameters. Crews were unable to consistently pick pools, riffles, runs, and glides in the field. Difficulty with repeatability in habitat measurement and rating is not unique to DEQ. Platts, et al. (1983) noted the lack of repeatability in their paper on methods for evaluating stream riparian and biotic

conditions, despite the fact that the personnel used in the study had advanced degrees in natural resource fields and were well trained. They signaled out subjective habitat measures as being particularly problematic and subject to the largest decrease in precision. Hannaford and Resh (1995) came to the same conclusions in their study looking at variability in habitat assessments. Results of the habitat survey followed neither predicted site rankings nor benthic survey results. Considerable variability occurred among groups in the classification of individual habitat parameters. Hannaford and Resh (1995) finally concluded that habitat assessments in their study did not produce consistent results, attributed to observer error and natural intrasite variability. Lenz and Miller (1996) concluded, "The visual, qualitative watershed survey results showed that qualitative habitat and physical setting categorizations were not consistent among the agencies." They looked at the repeatability of habitat assessments between water quality agencies. Lenz and Miller determined the bias of the collectors affected their categorization of each stream. They further concluded that qualitative surveys were not sufficient to interpret the influences of physical setting or habitat on macroinvertebrate community measures.

A number of sources, inside DEQ and out, have pointed out that regressing individual metric scores against the total MBI score can lead to spurious results due to auto correlation. While this could happen, DEQ feels it is a weak argument for a number of reasons. First, the seven metrics in the MBI are the same ones most frequently used in other studies and other state's bioassessment programs. Second, in a preliminary investigation of assessment methods, Tetra Tech, a contractor for EPA, found Idaho's classification scheme and metric scoring system to be as good as any other tested for Idaho data.

Supplemental Guidance to the 1996 Water Body Assessment Guidance

With these doubts about the precision of habitat parameters, DEQ wondered about the logic of giving habitat equal weight with biology in the WBAG process. Looking at what other states had done with habitat, it became clear that habitat is a critical part of water quality but lacks repeatability in application. Due to this, most states were found to be using their habitat information in "a posteriori" analysis in most water quality assessment programs (Resh, et al. 1995). In other words, most states were using their habitat information to explain what was going on with their biology, be it macroinvertebrates or fish. One of the main functions of Ohio's habitat assessment is to explain causes and sources of impacts to the aquatic life in their waters (Rankin 1995). On closer inspection of RBP, Plafkin, et al. (1989) admit the habitat evaluation carries considerable weight in the final assessment because of the minimal effort expended on the collection of biological data. However, in RBP levels III and V, which are most similar to Idaho's BURP, the biological collections are more rigorous and appropriately take precedence in the final assessment. In other words biology takes precedence over habitat. Plafkin goes on to say in RBP levels III and V, habitat evaluation plays a supporting role and is used to identify obvious constraints and help interpret the biosurvey results.

Considering all of the above, DEQ elected to develop a supplemental guidance to be used with the 1996 Water Body Assessment Guidance. The Supplemental Guidance alters the process described in Section 2300, Ecological Indicators, in the WBAG to give more weight to biology (see Attachment 1). This Supplemental Guidance merely changes the sequence of data consideration, placing habitat later in the sequence rather than earlier. Now exceedances are considered first and evaluated as either major or minor. Major exceedances override the biology in all cases. Minor exceedances defer to biology for the impairment and beneficial uses support status call.

Biology is the ultimate arbitrator for assessment calls in this Supplemental Guidance since calls are generally made before getting to habitat. Only after considering macroinvertebrates, fish and, where available, algae, and getting a Needs Verification (NV), does the process proceed to habitat for a status call. If the habitat evaluation is still inconclusive, then the water body status call is NV. At this point DEQ is not sure if water quality is affecting the biota or merely that the biota and water body in question are mediocre. DEQ feels the biology occurring in these waters is better at telling us what their habitat and water quality requirements are than we are at this time.

Defining major and minor criteria exceedance is critical in understanding the WBAG process and status determinations. The lack of clear definition was identified early on by the TRC in 1996. Several options were debated, but none were selected. This lack of definition was taken up again by the TRC in 1997. A member of the TRC was charged with looking into how other states handled the question of criteria exceedances. He found that the majority relied on best professional judgment; hence DEQ's approach was acceptable (see TRC minutes 1/20/98). For purposes of consistency, best professional judgment of what constituted a major or minor criteria exceedance was made by regional water quality professionals at DEQ. They evaluated the magnitude and duration of the criteria exceedance and its impact on the biota in that water body. If they determined that the magnitude and duration affected the biota, the exceedance was judged major. However, if the biota did not appear to respond to the exceedance and there was no other supporting information available, then the exceedance was deemed minor. The regional staff were viewed to have the best on-the-ground knowledge of the conditions and factors affecting the water body in question. Water temperature exceedances greater than 3 degrees for cold water biota and salmonid spawning were considered major, while temperatures of 3 degrees or less were considered minor (water temperature >16 for salmonid spawning or >25 for cold water biota are consider major, while <=16 for salmonid spawning or <=25 for cold water biota are considered minor).

Choosing to be conservative in our application of this new guidance, DEQ elected to use what was termed a "lowest common dominator" when multiple status calls were encountered on the same water body, for instance, a call of Full Support at one site and a call of Not Full Support at another site on the same water body. If a reasonable explanation could not be determined (i.e., land use change, ownership change, geology

etc.), then the lowest support call (i.e., Not Full Support or Needs Verification) was used for characterizing the entire water body. If a reasonable explanation was evident, then a boundary change was made to better focus where along the water body water quality impairments were occurring.

ATTACHMENT 1.2 ALGAE ASSEMBLAGES AND STREAM CONDITIONS IN SOUTHWEST IDAHO

INTRODUCTION

Algae assemblages were sampled from 341 sites in Southwest Idaho during the 1993 -1996 Beneficial Use Reconnaissance Project field seasons, which typically start in June and end in September. The samples were primarily collected from streams in the Snake River Basin, Blue Mountains, and Northern Rockies ecoregions (Omernik 1987).

Using the 1993, 1994, 1995 and 1996 Beneficial Use Reconnaissance Project (BURP) algae data, the DEQ Boise Regional Office has developed a preliminary multi-metric index for assessing aquatic diatom communities. The index will hereafter be referred to as the Boise Regional Office Algae Biotic Index (ABI). This report describes this index.

The interim ABI has been developed as a tool for assisting in the determination of the support status for the cold/warm water biota beneficial use in wadable streams in Idaho. Dixit et al. (1992) lists several reasons why algae are a useful and appropriate biological indicator:

aquatic algae:

1. are easy to sample
2. are ubiquitous over large geographic regions
3. can be used to quantify the rate of degradation (or recovery) of water quality
4. can be used to furnish data for reference conditions

MATERIALS AND METHODS

Sample Collection

Algae samples were collected from streams located within the DEQ Boise Regional Office boundaries (southwest Idaho) from the years 1993 to 1996. Sample collection followed the technique identified by the Kentucky Department of Environmental Protection (1993) and Bahls (1993) for collecting periphyton samples from wadable streams. The samples were collected from three separate riffle habitats using a modified 30cc syringe and a small, stiff bristled brush. The samples from the three riffles were composited in a 30 ml scintillation vial and preserved with 5-8 drops of 2% formalin. The tube was then labeled with a site identification number and the sampling date.

Sample Analysis

Aquatic diatoms are microscopic organisms and require preparation prior to identification and enumeration. Sample analysis followed the procedure outlined by Loren Bahls (1993). All samples were "cleaned" using ammonium persulfate ($NH_4S_2O_8$) and distilled water so that only the

frustule (cell wall) portion of each diatom remained. The samples were then mounted on a slide and three hundred or more frustules identified to species.

Data Processing

Data was entered into a database that contains the sampling locations site identification number, sampling date, identification confidence level (as determined by the taxonomist), species code, and species name. This format allowed for easy data retrieval and manipulation.

Calculations

Phytobenthic algae, diatoms in particular, are sensitive to environmental change in lotic water, making them a prime candidate for multi-metric analysis (*Revision to* EPA Rapid Bioassessment Protocols for use in Streams and Rivers 1997). Barbour et al. (1995) defined a metric as a characteristic of the biota that changes in some predictable way with increased human influence. The ABI utilizes five metrics: species richness, percent dominance, Shannon's diversity index, tolerance index, and siltation index. Each metric value was calculated using the values generated during the lab analysis. Each of the five metrics had the same potential contribution to the outcome of the Boise Regional Office ABI.

Species Richness

Species Richness is a count of the number of different species existing in the sample. As water quality increases, the number of species will generally increase. The equation for species richness is as follows:

Species Richness = number of species in the sample

Percent Dominance

Percent dominance is a measure of the distribution of taxa within a sample and is sensitive to taxa that demonstrate high numbers of individuals. A sample dominated by a small number of taxa displaying high numbers of individuals will exhibit a high percent dominance. The relationship between percent dominance and water quality is inverse. As water quality increases, percent dominance generally decreases. The equation for percent dominance is as follows:

$$\% \text{ Dominance} = (n_d/N)100$$

n_d = *number of individuals in the dominant taxa*
N = *number of individuals in all taxa*

Shannon's Diversity Index (H')

Shannon's Diversity Index is a measure of diversity that may be applied when a random sample of taxa is collected from a larger community or sub-community of interest (Brower & Zarr 1977). Shannon's Diversity Index indicates the relative diversity of the taxa within the sample, and generally increases with water quality. The equation for Shannon's diversity index is as follows:

$H' = (N \log N - \text{sum of } n_i \log n_i)/N$

N = *count of individuals in all taxa*
n_i = *count of individuals in the* i^{th} *taxon*

Tolerance Index
Analogous to macroinvertebrates and fish, there are certain species of diatoms that require pollutant reduced or pollutant absent water quality to survive. Bahls (1993) proposed a single pollution index for summarizing the information contained in the three pollution tolerance groups developed by Lange-Bertalot (1979). The tolerance value is based on the diatom's reaction to autecological criteria such as nutrients, organics, salts, temperature, toxics, substrate type, and suspended solids (Bahls 1993). The resultant value of this metric is the net tolerance for the entire sample. The equation for tolerance index is as follows:

$\text{Tolerance Index} = \text{sum of}(tol \times n/N)$

tol = tolerance value for taxa
n = number of individuals in species
N = number of individuals in all taxa

Siltation Index
The genera *Nitzschia* and *Navicula* are the most motile of the diatoms (Harper 1977). Since these genera are motile they are more likely to endure an unstable substrate. Non-motile or slow-moving genera may be less capable of holding their position or unable to move above a substantial layer of sediment (Bahls 1993). The relative abundance of *Nitzschia* and *Navicula* is a good indicator of the amount of recent sedimentation that has taken place in the stream. If there is a large percentage of *Nitzschia* and *Navicula* in the sample, the stream from which the sample was collected is likely undergoing or has undergone some degree of recent sedimentation. The equation for siltation index (%NN) is as follows:

% NN= (number of Nitzschia and Navicula in the sample/N)100

N = number of individuals in all taxa

Comparing to an Expected Condition
Using the 1993, 1994, 1995 and 1996 Beneficial Use Reconnaissance Project algae data from the Boise Regional Office, we have identified in Figure 1 the range of numeric values for each of the five metrics that represents the water quality conditions that are expected of impaired and non-impaired streams. These values indicate the break points between sites that are not-impaired and sites that are impaired. The values were determined by applying a margin of safety of one standard deviation to the mean value for each metric. This margin of safety was applied in either a positive or negative direction, depending on whether a high metric value or a low metric value indicates good water quality.

Figure 1. Expected conditions for the Boise Regional Office algae data

Expected Conditions

	Process A [ ]		Process B [ ]	
	Impaired	Not-Impaired	Impaired	Not-Impaired
Percent Dominance	>= 63.16	63.15 - 0	>= 54.78	54.77 - 0
Shannon's Diversity Index	<= .558	.559 - N	<= .738	.739 - N
Tolerance Index	<= 2.39	2.40 - 3	<= 2.45	2.46 - 3
Percent NIT, NAV	>= 30.86	30.85 - 0	>= 32.68	32.67 - 0
Species Richness	<= 13	14 - N	<= 27	28 - N
		N = No Limit		N = No Limit

An example of how the break points were determined is as follows:

Species Richness *increases with increasing water quality*
mean metric value - one standard deviation

Mean value for Species Richness = 21
Standard Deviation for Species Richness = 8

Break point for Species Richness: 21 - 8 = 13

Any water body with a Species Richness $\leq$13 is considered Impaired
Any water body with a Species Richness $\geq$14 is considered Not-Impaired

Percent Dominance *decreases with increasing water quality*

mean metric value + one standard deviation

Mean value for Percent Dominance = 40.86
Standard Deviation for Percent Dominance = 22.30

Break point for Percent Dominance: 40.86 + 22.30 = 63.16

Any water body with a Percent Dominance $\geq$ 63.16 is considered Impaired
Any water body with a Percent Dominance < 63.15 is considered Not-Impaired

Species richness is a metric that typically increases with increasing water quality, therefore the margin of safety is applied in a negative direction from the mean value. Percent dominance, on the other hand, typically decreases with increasing water quality. The margin of safety for percent dominance is applied in a positive direction from the mean. By assigning break points to the

metrics following this method, we can be certain any site that displays a deteriorating periphyton assemblage is in fact not supporting it's cold/warm water biota beneficial use, based on the ABI.

This method of determining break points is preliminary and may need to be revised when additional data are available or a more suitable method is developed. These break points should be used when using the ABI to determine the support status of the cold/warm water biota beneficial use for wadable streams in the State of Idaho.

Summarizing the Metric Results

By comparing the score for each metric to its respective break point and summarizing the results on an assessment form, we determined whether the cold/warm water biota beneficial use for the site was impaired, not impaired, or needed verification, based on the Boise Regional Office ABI. We did not weigh the assessment on one quantitative summary score. Rather, we determined the level of impairment for each metric separately and marked an X (metric violation) or an O (metric non-violation) on the assessment form for that site. When the level of impairment for each metric had been established, we summarized the results to determine the overall level of impairment. Any site that had four or more metric non-violations (O's) was considered not impaired for cold/warm water biota based on the Boise Regional Office ABI. Any site that had four or more metric violations (X's) was considered impaired for cold/warm water biota based on the Boise Regional Office ABI. All other sites were considered needing verification.

RESULTS AND DISCUSSION

As indicated in figure 1, two assessment processes were developed. This was necessary due to an inconsistency in sample analysis. The 1993, 1994 and most of the 1995 samples were analyzed by counting 300 or more frustules. The taxonomist typically counted between 300 and 350 frustules. The remaining 1995 and the 1996 samples were analyzed by counting the first 800 frustules. This inconsistency in sample analysis forced us to generate two sets of expected conditions, one for those samples counted to 300+ frustules and one for those samples counted to 800 frustules. Had we not generated two sets of expected conditions, comparing sites done in 1993, 1994, and most of the 1995 with the remaining 1995 and 1996 sites would have produced erroneous results.

No further investigation into the biotic structure of the periphyton communities or the potential causes for a given community structure were made. However, these are certainly topics that warrant further inquiration. Furthermore, we did not stratify the data prior to analysis. Potential stratifiers include ecoregion, hydrologic unit catalog number (HUC), and elevation.

ATTACHMENT 1.3 TECHNICAL REVIEW COMMITTEE THAT REVIEWED AND COMMENTED ON WATER BODY ASSESSMENT GUIDANCE

1996

Boise National Forest (2)

Idaho Fish & Game

USDA-NRCS

Thomas Creek Mine

Bureau of Reclamation

Boise State University (2)

Division of Environmental Quality

Environmental Protection Agency

US Fish & Wildlife Service

Idaho Conservation League

Boise Public Works

Bureau of Land Management

Potlatch Timber

1997

Potlatch Timber

Environmental Protection Agency (3)

DEQ Central Office (2)

Boise State University

Givens Pursley & Huntley

USGS (2)

Idaho Conservation League (2)

Bureau of Land Management

EcoAnalysts Inc.

City of Boise

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CHAPTER TWO

1998 303(d) and Other Lists

TABLE OF CONTENTS

2.0 INTRODUCTION

The following sections display water bodies on the 1998 303(d) list, threatened waters, and water bodies removed from the 1996 303(d) list. In addition, water bodies with boundary changes are identified and those water bodies assessed and found to be in full support are also identified. Lastly, the 1998 303(d) list is divided into subparts and identified by each specific pollutant. DEQ chose to display all the water bodies on the various lists to make it easier for the reader to find a particular water body or situation and ultimately, make it easier to understand the list.

2.1 IDAHO'S 1998 303(d) LIST

This list/report is required by the Clean Water Act pursuant to §303(d). States are required to submit this list to the U.S. Environmental Protection Agency every two years. The list represents a comprehensive status of water quality in Idaho. Streams, rivers, lakes and reservoirs are evaluated for this list.

Water bodies on this list have been determined to be water quality limited, that is, they do not support their beneficial uses or exceed water quality standards. Water bodies also remain on the 1998 list if they were on the 1996 list and have not been assessed to date. The list displays the water quality limited segment number, hydrologic unit number, common water body name, boundaries, whether it is an add for 1998, pollutants for which the water body is listed, number of miles affected, whether these water bodies are on or run through tribal lands, and year a Total Maximum Daily Load would be submitted to the U.S. Environmental Protection Agency.

Key to Headings on the 1998 303(d) List

HUC:	Hydrologic Unit Code, a unique number describing a series of nested watersheds
WQLSEG:	Water Quality Limited Segment Number; a unique number for each segment
WATERBODY:	Idaho Geographic Society Name for the water body
ADDS:	A segment being added to the 1998 303(d) List
BOUNDARIES:	Extent of segment
STREAM MILES:	Length, in miles, of the listed segment
POLLUTANTS:	Various; listed below

BA = Bacteria	CHS = Channel Stability	DO = Dissolved Oxygen
HALT = Habitat Alteration	MTH = Metals (Hg)	MTU = Metals (Unknown)
NUT = Nutrients	O/G = Oil/Gas	ORG = Organic
pH = [H+ions]	SAL = Salinity	SED = Sediment
TEMP = Temperature	UNKN = Unknown	QALT = Flow Alteration
NH3 = Ammonia	PST = Pesticides	TDG = Total Dissolved Gas

Organization of the 1998 303(d) List

The list is organized by HUC. A map of all the HUCs in the state of Idaho is included in this package. Within each HUC the segments are listed in the order of their WQLSEG number and not alphabetically. The WQLSEG number can be used to cross reference the large format 1998 303(d) List maps. The maps are not included in this package due to size limitations, however, they are available upon request from DEQ.

Idaho Division of Environmental Quality 1998 303(d) List

HUC#16010102

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)		STREAM MILES
2273		Bear River	Wyoming Line to Wardboro	2000		QALT	NUT	SED	31.10
2274		Thomas Fork	Wyoming Line to Bear River	2000			NUT	SED	27.54
2275		Preuss Creek	Forest Service boundary to Thomas Fork	2000		HALT		SED	3.67
2276		Dry Creek	Headwaters to Thomas Fork	2000			NUT	SED	8.68
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		70.99

HUC#16010201

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2252		Alexander Reservoir		2000				SED		.00
2253		Bear River	Wardboro to Alexander Reservoir	2000			NUT	SED		69.86
2257		Pearl Creek	N Fk Pearl Cr to Bear River	2000			NUT	SED		2.24
2259		Co-Op Creek	USFS boundary to Stauffer Creek	2000			NUT	SED		3.41
2261		Ovid Creek	Confluence of North & Mill Creeks to Bear River	2000				SED		14.47
2265		Snowslide Canyon	Headwaters to Montpelier Creek	2000				SED		1.95
2268		Saint Charles Creek	Lower IDL boundary to Refuge	2000			NUT	SED		6.64
5121		Meadow Creek	Headwaters to North Creek	2000		MTU		SED		3.14
5251		North Creek	Unnamed trib 3.2 km below Mill Hollow to Ovid Cr	2006	*ADD*				UNKN	8.05
			NEW MILES	8.05			TOTAL MILES OF LISTED STREAMS			109.76

Idaho Division of Environmental Quality 1998 303(d) List

HUC#16010202

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2231		Bear River	Highway 91 to Utah Line	2001		QALT		SED	15.49
2232		Bear River	Mink Creek to Highway 91	2001		QALT	NUT	SED	11.50
2233		Bear River	Oneida Dam to Mink Creek	2001			NUT	SED	6.83
2234		Oneida Narrows Reservoir		2001				SED	.00
2235		Bear River	Cove Power Plant to Oneida	2001		QALT	NUT	SED	24.04
2236		Bear River	Alexander Dam to Cove Power	2001		QALT			12.17
2237		Cub Creek	Sugar Creek to Utah line	2001		QALT	NUT	SED	9.06
2238		Weston Creek	Headwaters to Bear River	2001		QALT	NUT	SED	19.60
2240		Battle Creek	Headwaters to Bear River	2001			NUT	SED	17.16
2245		Cottonwood Creek	Trib 6.4 km upstream to Bear River	2001				SED	4.00
2246		Williams Creek	Right Fk Williams Cr to Bear River	2001			NUT	SED	4.96
2248		Whiskey Creek	Headwaters to Bear River	2001			NUT	SED	3.16
2249		Densmore Creek	Headwaters to Bear River	2001			NUT	SED	9.01
5252		Deep Creek	Oxford Slough to Bear River	2006	*ADD*				UNKN 10.20
5253		Fivemile Creek	Headwaters to Bear River	2006	*ADD*				UNKN 10.96
5254		Worm Creek	Glendale Reservoir to Utah line	2006	*ADD*				UNKN 12.85
5255		Maple Creek	Left Fork to Cub River	2006	*ADD* BAC				UNKN 8.14
5256		Strawberry Creek	Forest Service boundary to Mink Creek	2006	*ADD*				UNKN 5.31

			NEW MILES	47.46		TOTAL MILES OF LISTED STREAMS			184.44

HUC#16010204

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2285		Malad River	Headwaters to Pleasant View	2002				SED	30.62
2289		Samaria Creek	Headwaters to Malad River	2002			NUT	SED	9.21
2290		Devil Creek	Devil Creek Reservoir to Malad River	2002			NUT	SED	18.46
2292		Little Malad River	Headwaters to Malad River	2002				SED	24.23
2294		Wright Creek	Headwaters to Daniels Reservoir	2002				SED	11.10
5257		Deep Creek	Headwaters to mouth	2006	*ADD*			UNKN	13.95
5258		Elkhorn Creek	Forest Service bnd to Little Malad River	2006	*ADD*			UNKN	2.27
5259		Dairy Creek	Headwaters to Wright Creek	2006	*ADD*			UNKN	12.03
			NEW MILES	28.25		TOTAL MILES OF LISTED STREAMS			121.87

HUC#17010104

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
3365		Boulder Creek	Headwaters to Kootenai River	2004				SED	16.60
3368		Deep Creek	McArthur Lake to Kootenai River	2004				SED	19.53
3371		Caribou Creek	Headwaters to Snow Creek	2004				SED	9.92
3391		Blue Joe Creek	Headwaters to Canadian border	2004		MTU	pH	SED	6.38
5051		Cow Creek	Headwaters to Smith Creek	2004				SED	7.97
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			60.40

Idaho Division of Environmental Quality 1998 303(d) List

HUC#17010105

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
3395		Moyie River	Moyie Falls dam to Kootenai River	2005		SED	1.64
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	1.64

HUC#17010213

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
3471		Clark Fork	Montana line to Pend Oreille Lake	2004		QALT HALT MTU TDG	11.56
3472		Johnson Creek	Headwaters to Clark Fork	2004		QALT HALT SED	5.95
3476		Wellington Creek	Falls to Lightning Creek	2004		QALT SED	2.41
7473		East Fork Creek	Headwaters to Lightning Creek	2004		QALT HALT SED TEMP	3.58
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	23.50

HUC#17010214

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
3436		Pend Oreille River	Pend Oreille Lake to HUC boundary	1999		QALT SED TDG TEMP	21.81
3438		Spirit Lake		1999		DO NUT SED	.00
3440		Hoodoo Creek	Hoodoo Lake to Pend Orielle R	1999		SED TEMP	9.80
3441		Hoodoo Creek	Headwaters to Hoodoo Lake	1999		SED TEMP	7.20
3442		Cocolalla Creek	Cocolalla Lake to Pend Oreille Rive	1999		SED TEMP	8.21
3443		Cocolalla Creek	Headwaters to Cocolalla Lake	1999		SED TEMP	15.01
3458		Caribou Creek	Headwaters to Pack River	1999		SED	6.73
3465		Granite Creek	Headwaters to Pend Oreille Lake	1999		SED	9.69
5135		North Fork Grouse Creek	BRC Creek to Grouse Creek	1999		SED	2.25

7442	Cocolalla Lake		1999		DO	NUT			.00
7443	Fish Creek	Headwaters to Cocolalla Creek	1999	BAC			SED	TEMP	5.09
7471	Pend Oreille Lake		1999				TDG	UNKN	.00
7615	Schweitzer Creek	Headwaters to Sand Creek	2006	*ADD*			SED		4.85
		NEW MILES	4.85			TOTAL MILES OF LISTED STREAMS			90.64

HUC#17010215

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3407		Priest River	Upper West Branch to Pend Oreille R	2000			SED			34.89
3411		Lower West Branch Priest River	WA line to Priest River	2000					UNKN	15.49
3415		East River	North Fk East River to Priest River	2000		DO QALT	SED	TEMP		2.43
3418		Binarch Creek	Headwaters to Priest River	2000			SED			7.36
3421		Kalispell Creek	WA line to Priest Lake	2000			SED	TEMP		8.14
3424		Reeder Creek	Headwaters to Priest Lake	2000			SED	TEMP		7.63
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			75.94

HUC#17010216

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3436		Pend Oreille River	Pend Oreille Lake to HUC boundary	1999		QALT	SED	TDG	TEMP	1.64
5657		Pend Oreille River	HUC boundary to Washington line	1999		QALT	SED	TDG	TEMP	3.03
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			4.67

HUC#17010301

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)		STREAM MILES
3481		North Fork Coeur d'Alene	Yellowdog Creek to S Fk CdA River	2003		QALT HALT	SED		39.31

	River														
3482	North Fork Coeur d'Alene River	Tepee Creek to Yellowdog Creek	2003				QALT	HALT					SED		11.82
3485	Little North Fork Coeur d'Alene River	Headwaters to Laverne Creek	2003				QALT	HALT					SED		21.63
3487	Copper Creek	Headwaters to Little N Fk CdA River	2003										SED		5.56
3495	Steamboat Creek	Conflu of Barrymore & Steamboat to N Fk CdA River	2003				QALT	HALT					SED		2.60
3499	Beaver Creek	Headwaters to N Fk CdA River	2003										SED		11.52
3500	Prichard Creek	Barton Gulch to N Fk CdA River	2003		BAC	DO		HALT		NUT	O/G		SED	TEMP	10.20
3504	Shoshone Creek	Sentinel Creek to N Fk CdA River	2003											UNKN	13.53
3506	Yellow Dog Creek	Headwaters to N Fk CdA River	2003										SED		5.12
3508	Tepee Creek	Headwaters to Big Elk Creek	2003					HALT					SED		4.88
3511	Big Elk Creek	Headwaters to Tepee Creek	2003										SED		5.63
5032	Burnt Cabin Creek	Headwaters to Little N Fk CdA River	2003										SED		5.88
5054	Cub Creek	Headwaters to Lost Fork	2003										SED		1.47
5617	West Fork Eagle Creek	Headwaters to Eagle Creek	2006	*ADD*				HALT	MTU			pH	SED		9.28
5643	Lost Creek	Headwaters to North Fk CdA River	2006	*ADD*										UNKN	8.35
7501	Cougar Gulch	Headwaters to Prichard Creek	2003					HALT					SED		2.25
7504	Falls Creek	Headwaters to Shoshone Creek	2003										SED		4.27

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NEW MILES 17.63 TOTAL MILES OF LISTED STREAMS 163.30

HUC#17010302

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3513		South Fork Coeur d'Alene River	Big Creek to Pine Creek	1997			MTU	SED		8.99
3514		South Fork Coeur d'Alene River	Pine Creek to Bear Creek	1997			MTU	SED		1.79
3515		South Fork Coeur d'Alene River	Bear Creek to Coeur d'Alene River	1997			MTU	SED		.44
3516		South Fork Coeur d'Alene River	Canyon Creek to Ninemile Creek	1997			MTU	SED		.55
3517		South Fork Coeur d'Alene River	Ninemile Creek to Placer Creek	1997			MTU	SED		.33
3518		South Fork Coeur d'Alene River	Placer Creek to Big Creek	1997			MTU	SED		7.56
3519		Pine Creek	E Fk Pine Creek to S Fk CdA River	1997			MTU	SED		5.28
3520		East Fork Pine Creek	Headwaters to Hunter Creek	1997			MTU	SED		5.19
3521		East Fork Pine Creek	Hunter Creek to Pine Creek	1997			MTU	SED		1.57
3524		Ninemile Creek	Headwaters to S Fk Coeur d'Alene R	1997			MTU	SED		4.91
3525		Canyon Creek	Gorge Gulch to South Fk CdA River	1997		HALT	MTU	SED		6.90
5084		Government Gulch	Headwaters to S.Fk of CdA River	1997			MTU	SED		3.53
5127		Moon Creek	Headwaters to S Fk CdA River	1997			MTU	SED		4.07
5618		East Fork Ninemile Creek	Headwaters to Ninemile Creek	2006	*ADD*				UNKN	4.38

5661	Milo Creek	Headwaters to mouth	2006	*ADD*			MTU				2.56
		NEW MILES	6.94					TOTAL MILES OF LISTED STREAMS			58.05

HUC#17010303

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)						STREAM MILES
2001	T/R	Coeur d'Alene Lake		1997				MTU					.00
3529		Coeur d'Alene River	Black Lake to Thompson Lake	1999			HALT	MTU		pH	SED		4.21
3530		Thompson Creek	Headwaters to Cda River	1999			HALT				SED		4.64
3531	T/R	Willow Creek	Headwaters to Coeur d'Alene River	1999							SED		4.25
3534		Fourth of July Creek	Headwaters to CdA River	1999			HALT				SED		7.15
3535		Latour Creek	Headwaters to CdA River	1999	BAC		HALT				SED	TEMP	16.31
3541		Wolf Lodge Creek	Headwaters to CdA Lake	1999	BAC		HALT		NUT		SED		10.30
3543		Fernan Creek	Fernan Lake to CdA Lake	1999	BAC	DO	HALT		NUT		SED		.68
3545		Cougar Creek	North Fk Cougar Creek to CdA Lake	1999			HALT		NUT		SED		4.04
3546		Kid Creek	Headwaters to CdA Lake	1999			HALT		NUT		SED		4.06
3547		North Fork Mica Creek	Headwaters to CdA Lake	1999	BAC	DO	HALT		NUT		SED		7.74
3549	T/R	Lake Creek	House Creek to Cda Lake	1999							SED		6.32
4015		Coeur d'Alene River	Cave Lake to Black Lake	1999			HALT	MTU		pH	SED		4.00
4016		Coeur d'Alene River	Fortier Creek to Robinson Creek	1999			HALT	MTU		pH	SED		.80
4017		Coeur d'Alene River	Fourth of July Creek to Fortier Cr	1999			HALT	MTU		pH	SED		10.50
4018		Coeur d'Alene River	French Gulch to Skeel Gulch	1999			HALT	MTU		pH	SED		4.21

4019	Coeur d'Alene River	Latour Creek to Fourth of July Cr	1999			HALT	MTU		pH	SED		4.09
4020	Coeur d'Alene River	Robinson Creek to Cave Lake	1999			HALT	MTU		pH	SED		1.57
4021	Coeur d'Alene River	S Fk CdA River to French Gulch	1999			HALT	MTU		pH	SED		2.13
4022	Coeur d'Alene River	Skeel Gulch to Latour Creek	1999			HALT	MTU		pH	SED		1.16
4023	Coeur d'Alene River	Thompson Lake to CdA Lake	1999		DO	HALT	MTU		pH	SED	TEMP	4.19
7529 T/R	Black Lake		1999					NUT				.00
7535	Baldy Creek	Headwaters to Latour Creek	1999	BAC		HALT				SED	TEMP	5.17
7536	Larch Creek	Headwaters to Latour Creek	1999	BAC		HALT				SED	TEMP	1.44
7541	Marie Creek	Searchlight Creek to Wolf Lodge Creek	1999			HALT						1.04
7543	Fernan Lake		1999		DO			NUT		SED		.00

NEW MILES 0.00 TOTAL MILES OF LISTED STREAMS 110.00

HUC#17010304

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)				STREAM MILES
3579		Saint Maries River	Mashburn (town) to St. Joe River	2002			HALT	NUT	SED			23.74
3580		Saint Maries River	Clarkia to Mashburn (town)	2002							UNKN	19.75
3581		West Fork Saint Maries River	Headwaters to St. Maries River	2002					SED	TEMP		9.61
3582		Thorn Creek	Headwaters to St. Maries River	2002				NUT	SED			10.62
3583	T/R	Alder Creek	Headwaters to St. Maries River	2006	*ADD*			NUT	SED			11.98
3584		John Creek	Unnamed trib 7.5 km upstream to St. Maries River	2002					SED			4.60

3585	Santa Creek	Headwaters to St. Maries River	2002		DO	HALT	NUT	SED		15.86
3587	Charlie Creek	Headwaters to Santa Creek	2002			HALT		SED		6.76
3588	Renfro Creek	Headwaters to Davis Creek	2002					SED		6.17
3589	Tyson Creek	North Fk Tyson Creek to St. Maries River	2002			HALT		SED		1.99
3590	Crystal Creek	Headwaters to St. Maries River	2002					SED		6.54
3591	Carpenter Creek	Headwaters to St. Maries River	2002			HALT		SED		8.69
3593	Emerald Creek	Conflu of E & W Fks to St. Maries R	2002			HALT		SED	TEMP	3.40
3594	Middle Fork Saint Maries River	Headwaters to St. Maries River	2002			HALT		SED		14.22
3596	Gold Center Creek	Windy Creek to Middle Fk St. Maries River	2002			HALT		SED	TEMP	2.12
3601	Mica Creek	Headwaters to St. Joe River	2002					SED		13.60
3608	Fishhook Creek	Lick Creek to St. Joe River	2002					SED		5.21
3614	Bird Creek	Headwaters to St. Joe River	2002					SED		6.26
3622	Gold Creek	East Fk Gold Creek to St. Joe River	2002			HALT	NUT	SED	TEMP	1.59
5022	East Fork Bluff Creek	Headwaters to St. Joe River	2006	*ADD*				SED		17.28
5620	Loop Creek	Headwaters to North Fk St. Joe River	2006	*ADD*				SED	UNKN	12.11
7575	Tank Creek	Headwaters to St. Joe River	2002		BAC DO			SED	TEMP	2.14
7576	Harvey Creek	Headwaters to St. Joe River	2002		BAC DO			SED	TEMP	3.44

7577	Blackjack Creek	Headwaters to St. Joe River	2002	BAC	DO			SED	TEMP	1.96
7596	Flewsie Creek	Headwaters to M Fk St. Maries River	2002					SED	TEMP	4.34
7598	Gramp Creek	Headwaters to Gold Center Creek	2002	BAC				SED	TEMP	4.60
7606	Bear Creek	Headwaters to Marble Creek	2002	BAC				SED	TEMP	2.47
7607	Little Bear Creek	Headwaters to Big Bear Creek	2002	BAC				SED	TEMP	2.00
		NEW MILES	34.65				TOTAL MILES OF LISTED STREAMS			223.05

HUC#17010305

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3552		Spokane River	CdA Lake to Huetter	1997		MTU			TEMP	3.45
3553		Spokane River	Huetter to Post Falls Bridge	1997		MTU			TEMP	4.89
3554		Spokane River	Post Falls Bridge to WA border	1997		MTU			TEMP	6.18
3560		Rathdrum Creek	Twin Lakes outlet to E Greenacres Diversion	2000			NUT	SED		3.42
3561		Fish Creek	Washington line to Twin Lakes	2000			NUT	SED		6.02
3562		Hauser Lake		2000		DO	NUT			.00
7555		Hayden Lake		2000			NUT	SED		.00
7561		Twin Lakes		2000	BAC		NUT	SED		.00
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			23.96

HUC#17010306

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3565	T/R	Hangman Creek	IR Boundary to ID/WA line	2005	BAC		NUT	SED		17.47
3566		Hangman Creek	Headwaters to IR Boundary	2005		HALT	NUT	SED		4.21

3567	T/R	Little Hangman Creek	Headwaters to Washington Line	2005			NUT	8.34
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS	30.02

HUC#17040104

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)		STREAM MILES
2004		Snake River	Palisades Dam to Irwin	2000		QALT			7.28
2006		Antelope Creek	State land bnd to S Fk Snake River	2000				SED	11.49
5241		Camp Creek	Headwaters to Fall Creek	2006	*ADD*			UNKN	4.57
5242		Little Elk Creek	Headwaters to Palisades Reservoir	2006	*ADD*			UNKN	4.52
5244		North Fork Indian Creek	Wyoming line to Indian Creek	2006	*ADD*			UNKN	1.08
5245		Bear Creek	Headwaters to North Fk Bear Creek	2006	*ADD*			UNKN	12.02
5246		Elk Creek	Headwaters to West Fk Elk Creek	2006	*ADD*			UNKN	3.28
5247		Fall Creek	Headwaters to S Fk Fall Creek	2006	*ADD*			UNKN	12.18
5645		Snake River	Irwin to HUC boundary	2000		QALT			32.41
5653		Sheep Creek	Headwaters to S Fk Snake River	2006	*ADD*			UNKN	5.37
			NEW MILES	43.02			TOTAL MILES OF LISTED STREAMS		94.20

HUC#17040105

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
5266		Boulder Creek	Headwaters to Stump Creek	2006	*ADD*	UNKN	6.54
			NEW MILES	6.54		TOTAL MILES OF LISTED STREAMS	6.54

HUC#17040201

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)	STREAM MILES
2003		Snake River	HUC boundary to Heise	2002		QALT		3.62

5250	Birch Creek	Unnamed trib in T2N, R41E, Section 2 to sink	2006	*ADD*				UNKN	10.61
5655	South Fork Willow Creek	HUC boundary to Snake River	2002				SED		29.00
		NEW MILES	10.61			TOTAL MILES OF LISTED STREAMS			43.23

HUC#17040202

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
7610		Sheridan Creek	Yale Kilgore Road to Island Park Reservoir	2006	*ADD*			SED		15.62
			NEW MILES	15.62			TOTAL MILES OF LISTED STREAMS			15.62

HUC#17040204

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2113		North Fork Teton River	Forks to Henrys Fk, Snake R	1999			NUT	SED		14.64
2116		Teton River	Highway 33 to Bitch Creek	1999		HALT	NUT	SED		10.10
2117		Teton River	Trail Creek to Highway 33	1999		HALT		SED		20.00
2118		Teton River	Headwaters to Trail Creek	1999		HALT				2.65
2119		Moody Creek	Forest Boundary to Teton River	1999			NUT			25.38
2125		Badger Creek	Highway 32 to Teton River	1999				SED		8.51
2127		Spring Creek	Wyoming line to Teton River	1999		QALT		SED	TEMP	12.60
2128		South Leigh Creek	Wyoming line to Teton River	1999				SED		11.30
2129		Packsaddle Creek	Headwaters to Teton River	1999		QALT		SED		9.88
2130		Horseshoe Creek	Confluence of N & S Fks to Teton River	1999		QALT				7.03

2134	Darby Creek	Highway 33 to Teton River	1999		QALT		SED	3.48
2136	Fox Creek	Wyoming line to Teton River	1999		QALT		SED TEMP	9.18
5230	North Leigh Creek	Wyoming line to Spring Creek	2006	*ADD*			UNKN	4.90
			NEW MILES	6.61		TOTAL MILES OF LISTED STREAMS		139.65

HUC#17040205

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
2035		Willow Creek	Ririe Dam to HUC boundary	2002			SED	5.38
2036		Ririe Lake		2002			SED	.00
2037		Willow Creek	Grays Lake Outlet to Ririe Reservoi	2002			SED	16.79
2039		Willow Creek	Headwaters to Sellars Creek	2002			SED	19.09
2040		Meadow Creek	Headwaters to Ririe Reservoir	2002			SED	10.58
2041		Tex Creek	Headwaters to Indian Fork	2002			SED	8.34
2042		Birch Creek	Headwaters to Willow Creek	2002			SED	7.04
2044		Grays Lake Outlet	Grays Lake to Above Falls	2002		NUT	SED	5.97
2045		Hell Creek	Headwaters to Grays Lake Outlet	2002		NUT	SED	13.92
2046		Lava Creek	Headwaters to Grays Lake Outlet	2002			SED TEMP	7.07
2047		Brockman Creek	Headwaters to Grays Lake Outlet	2002		NUT	SED	12.68
2048		Corral Creek	Headwaters to Brockman Creek	2002			SED TEMP	4.29
2049		Sawmill Creek	Headwaters to Brockman Creek	2002			SED TEMP	3.07
2050		Homer Creek	Headwaters to Grays Lake Outlet	2002			SED	19.76

2051	Sellars Creek	Confluence of South Fk Sellars to Willow Creek	2002		QALT		SED	TEMP	4.22
2053	Long Valley Creek	Headwaters to Willow Creek	2002				SED	TEMP	6.59
2054	Mill Creek	Headwaters to Willow Creek	2002				SED	TEMP	6.39
2056	Crane Creek	Headwaters to Willow Creek	2002				SED		15.22
2057	Seventy Creek	Headwaters to Willow Creek	2002		QALT		SED	TEMP	3.06
5232	Buck Creek	Headwaters to Mill Creek	2006	*ADD*				UNKN	2.60
		NEW MILES	2.60			TOTAL MILES OF LISTED STREAMS			172.06

HUC#17040206

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2346		American Falls Reservoir		2003		DO	NUT	SED		.00
2347	T/R	Snake River	Ferry Butte to American Falls Reser	2003				SED		14.94
2348	T/R	Snake River	Bonneville County line to Ferry But	2003		DO QALT	NUT	SED		40.44
2349		Bannock Creek	Headwaters to IR Boundary	2003	BAC		NUT	SED		21.12
2350		Rattlesnake Creek	Headwaters to IR Boundary	2003				SED		14.53
2356		McTucker Creek	Headwaters to Snake River	2003				SED		2.19
5263		Knox Creek	Headwaters to Bannock Creek	2006	*ADD*				UNKN	11.31
6349		Moonshine Creek	Headwaters to IR Boundary	2003				SED		1.35
6350		West Fork Bannock Creek	Headwaters to IR Boundary	2003				SED		3.64
6351	T/R	Bannock Creek	IR Boundary to American Falls	2003	BAC		NUT	SED		30.31

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NEW MILES 11.31 TOTAL MILES OF LISTED STREAMS 139.83

HUC#17040207

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)				STREAM MILES
2303		Blackfoot River	Blackfoot Dam to Wolverine Creek	1999		QALT	NUT		SED	40.35
2305		Blackfoot River	Headwaters to Blackfoot Reservoir	1999				ORG	SED	41.16
2306		Wolverine Creek	Wolverine to Blackfoot River	1999			NUT		SED	6.36
2309		Corral Creek	Headwaters to Blackfoot River	1999					SED	18.50
2310		Meadow Creek	Headwaters to Blackfoot Reservoir	1999					SED	30.93
2311		Trail Creek	Headwaters to Blackfoot River	1999					SED	8.04
2312		Slug Creek	Headwaters to Blackfoot River	1999					SED	23.56
2313		Angus Creek	Headwaters to Blackfoot River	1999					SED	8.04
2314		Dry Valley Creek	Headwaters to Blackfoot River	1999					SED	11.14
2315		Diamond Creek	Headwaters to Blackfoot River	1999					SED	20.03
2316		Bacon Creek	Forest Service boundary to Lanes Creek	1999					SED	2.97
2320		Lanes Creek	Headwaters to Blackfoot River	1999					SED	10.44
2321		Sheep Creek	Headwaters to Lanes Creek	1999					SED	7.89
5267		Brush Creek	Headwaters to Blackfoot River	2006	*ADD*				UNKN	15.34
5268		Grizzly Creek	Headwaters to Corral Creek	2006	*ADD*				UNKN	7.44
5269		Maybe Creek	Maybe Canyon waste dump to Dry Valley Creek	2006	*ADD*				UNKN	2.85

6302	Blackfoot River	Wolverine Creek to Main Canal	1999			NUT	SED	23.85
			NEW MILES	25.63		TOTAL MILES OF LISTED STREAMS		278.89

HUC#17040208

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)		STREAM MILES
2324		Portneuf River	Interstate 86 to IR Boundary	1998	BAC		NUT	SED	1.74
2325		Portneuf River	Diversion, T9SR37ES22 to Marsh Cree	1998	BAC		NUT	SED	18.45
2326		Portneuf River	Lava Hot Springs to PVC diversion	1998	BAC		NUT	SED	8.01
2327		Portneuf River	Downey Canal return to Lava Hot Springs	1998	BAC	QALT	NUT	SED	18.19
2328		Portneuf River	Chesterfield Reservoir to Downey Canal return	1998	BAC	QALT	NUT	SED	13.38
2330	T/R	Portneuf River	Headwaters to Chesterfield Res	1998				SED	18.25
2331		Pocatello Creek	Headwaters to Portneuf River	1998				SED	4.93
2334		Rapid Creek	Headwaters to Portneuf River	1998				SED	6.25
2335		Marsh Creek	Calvin Road to Portneuf River	1998			NUT	SED	48.40
2336		Garden Creek	Garden Creek Gap to Marsh Creek	1998			NUT	SED	7.52
2337		Hawkins Creek	Headwaters to Marsh Creek	1998			NUT	SED	15.05
2338		Birch Creek	Birch Creek Road to Marsh Creek	1998			NUT	SED	6.47
2339		Cherry Creek	Forest Service boundary to Birch Creek	1998			NUT	SED	7.41
2342		Twentyfourmile Creek	Headwaters to Portneuf River	1998				SED	12.93

5150 T/R	Portneuf River	IR Boundary to American Falls Reser	1998		BAC		NUT	SED	4.33
5270	Indian Creek	Forest Service bnd to Portneuf River	2006	*ADD*				UNKN	3.47
5271	Arkansas Creek	Headwaters to Marsh Creek	2006	*ADD*				UNKN	5.40
6324	Portneuf River	Johnny Creek to Interstate 86	1998		BAC		NUT O/G	SED	9.82
6325	Portneuf River	Marsh Creek to Johnny Creek	1998		BAC		NUT	SED	12.90
6337	Hawkins Reservoir		1998			DO	NUT		.00
		NEW MILES		8.87			TOTAL MILES OF LISTED STREAMS		222.90

HUC#17040209

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2359		Milner Lake		1999			DO QALT	NUT O/G		SED	.00
2362		Snake River	Massacre Rocks to Lake Walcott	1999			DO		PST	SED	20.51
2363		Snake River	Eagle Rock to Massacre Rock	1999						SED	2.49
2365		Rock Creek	Headwaters to Snake River	1999						SED	13.02
2366		East Fork Rock Creek	Bench Ditch to Rock Creek	1999						SED	5.33
5272		Marsh Creek	Land Creek to mouth	2006	*ADD*					UNKN	19.98
5273		South Fork Rock Creek	Headwaters to Rock Creek	2006	*ADD*					UNKN	31.55
6363		Snake River	American Falls Dam to Eagle Rock	1999						SED	8.99
			NEW MILES		51.53			TOTAL MILES OF LISTED STREAMS			101.87

HUC#17040210

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)		STREAM MILES
2430		Raft River	Malta to Snake River	2002		BAC	DO QALT	NH3 NUT	SED	33.93

2431	Raft River	Utah Line to Malta	2002		BAC	DO QALT			SALSED	TEMP	42.19
2432	Sublett Creek	Sublett Res to lower boundaries	2006	*ADD*	BAC	DO QALT		NUT	SED		8.24
2434	Sublett Reservoir		2002			DO QALT		NUT	SED		.00
2438	Cassia Creek	Connor Creek to Raft River	2002				HALT		SED		12.74
7612	Fall Creek	Headwaters to Lake Fork	2006	*ADD*						UNKN	2.29
			NEW MILES	4.52				TOTAL MILES OF LISTED STREAMS			99.39

HUC#17040211

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2446		Lower Goose Creek Reservoir		2002			DO QALT	NUT	SED		.00
2447		Goose Creek	State line to Lower Goose Creek Reservoir	2002		BAC	DO QALT	NUT	SED	TEMP	15.42
2448		Birch Creek	Headwaters to Oakley (town)	2002		BAC	DO		SED		14.97
2449		Trapper Creek	Ibex Hollow to Lower Goose Creek Reservoir	2002		BAC	DO QALT		SED		7.62
5275		Cold Creek	Headwaters to Goose Creek	2006	*ADD*					UNKN	8.27
5277		Blue Hill Creek	Headwaters to Goose Creek	2006	*ADD*					UNKN	5.71
5278		Beaverdam Creek	Right Hand Fork Beaverdam Creek to Goose Creek	2006	*ADD*					UNKN	5.38
5280		Big Cottonwood Creek	Billys Hole to mouth	2006	*ADD*					UNKN	13.12
				NEW MILES	32.48			TOTAL MILES OF LISTED STREAMS			70.49

HUC#17040212

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES

2369	Snake River	Bliss Bridge to King Hill Diversion	1999					SED		5.78
2370	Bliss Reservoir		1999	BAC	DO QALT	NH3		SED		.00
2372	Lower Salmon Falls Reservoir		1999		DO QALT			SED		.00
2373	Upper Salmon Falls Reservoir		1999		DO QALT			SED		.00
2374	Snake River	Cedar Draw to Rock Creek	1999					SED	TEMP	7.27
2375	Shoshone Falls Reservoir		1999		DO QALT			SED		.00
2377	Snake River	Murtaugh to Twin Falls Reservoir	1999	BAC	DO	NH3		SED		11.65
2378	Snake River	Milner Dam to Murtaugh	1999	BAC	DO QALT			SED	TEMP	8.53
2379	Clover Creek	Pioneer Res. to Snake River	1999					SED		10.05
2380	Pioneer Reservoir		1999	BAC	DO QALT	NH3 NUT		SED	TEMP	.00
2384	Billingsley Creek	Headwaters to Snake River	1999		DO QALT	NH3		SED		7.57
2385	Riley Creek	Headwaters to Snake River	1999	BAC	DO	NH3 NUT		SED		2.47
2386	Sand Springs Creek	Headwaters to Snake River	1999		QALT	NUT		SED		.23
2389	Blind Canyon	Headwaters to Snake River	1999	BAC	DO QALT	NH3 NUT		SED		.72
2395	Clear Springs	Headwaters to Snake River	1999		DO	NH3 NUT		SED		1.00
2398	Crystal Springs	Headwaters to Snake River	1999		DO QALT	NH3 NUT		SED		.20
2400	Rock Creek	Rock Creek (town) to Snake	1999	BAC	DO QALT	NH3 NUT O/G		SED		26.07
2403	Cottonwood Creek	Headwaters to Rock Creek	1999	BAC	QALT	NH3 NUT	PST	SED		6.57

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2404	McMullen Creek	Headwaters to Cottonwood Creek	1999		BAC	DO QALT		NUT	SED	TEMP	15.70
2405	Alpheus Creek	Headwaters to Snake River	1999			DO		NUT	SED		.35
2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake	1999		BAC	QALT			SED	TEMP	10.19
2411	West Fork Dry Creek	Headwaters to Dry Creek	1999		BAC	DO QALT		NUT	SED		6.22
5173	Snake River	Cassia Gulch to Big Pilgrim Gulch	1999					NUT	SED	TEMP	3.47
5174	Snake River	Clear Lakes Bridge to Cedar Draw	1999						SED	TEMP	6.10
5175	Snake River	Deep Creek to Mud Creek	1999						SED	TEMP	.11
5176	Snake River	King Hill to Big Pilgrim Gulch	1999						SED	TEMP	9.31
5177	Snake River	Mud Creek to Clear Lakes Bridge	1999						SED	TEMP	1.33
5286	Deep Creek	High Line Canal to Snake River	2006	***ADD***	BAC					UNKN	19.43
5287	Toolbox Creek	Headwaters to Fifth Fk Rock Creek	2006	***ADD***						UNKN	.46
5646	Cedar Draw	Headwaters to Snake River	2006	***ADD***	BAC					UNKN	15.72
5647	Mud Creek	Low Line Canal to Snake River	2006	***ADD***	BAC					UNKN	11.80
6374	Snake River	Shoshone Falls to Rock Creek	1999						SED	TEMP	8.25

NEW MILES 47.41 TOTAL MILES OF LISTED STREAMS 196.55

HUC#17040213

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2458		Salmon Falls Creek	Nevada line to Salmon Falls	2005				NUT		TEMP	8.47
2459		Salmon Falls Creek	Bluegill Lake to Snake River	2005		BAC	DO	NUT	SED		8.81
2462		Cedar Creek	Cedar Creek Res to Salmon Falls Cr	2005		BAC	DO QALT	NUT	SED		19.55

2463	Cedar Creek Reservoir		2005		BAC	DO QALT	NH3 NUT	SED		.00
2466	Shoshone Creek	Magic Hot Springs to Nevada	2005		BAC	DO		SED	TEMP	4.71
2468	Shoshone Creek	Cottonwood Creek to Big Creek	2005		BAC	DO QALT	NUT	SED	TEMP	6.44
2471	Cottonwood Creek	Headwaters to Shoshone Creek	2005			DO	NUT	SED		11.19
5282	Horse Creek	Headwaters to Shoshone Creek	2006	*ADD*					UNKN	8.44
5285	Hopper Gulch	Headwaters to Shoshone Creek	2006	*ADD*					UNKN	2.54
		NEW MILES		10.98			TOTAL MILES OF LISTED STREAMS			70.15

HUC#17040214

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2190		Camas Creek	Highway 91 to Mud Lake	2004		NUT	SED		15.58
2191		Camas Creek	Spring Creek to Highway 91	2004		QALT HALT	NUT	SED TEMP	37.21
2193		Beaver Creek	Dubois to Camas Creek	2004		QALT HALT	NUT	SED TEMP	15.44
2194		Beaver Creek	Spencer to Dubois	2004		QALT HALT	NUT	SED TEMP	16.90
5233		Cow Creek	Headwaters to Thunder Gulch	2006	*ADD*			UNKN	4.85
			NEW MILES		4.85		TOTAL MILES OF LISTED STREAMS		89.98

HUC#17040215

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2206		Medicine Lodge Creek	Spring Hollow Creek to Small (town)	2004		QALT	SED	TEMP	16.20
2210		Edie Creek	Headwaters to Medicine Lodge Creek	2004		HALT	NUT	SED	7.72
2211		Irving Creek	Headwaters to Medicine Lodge Creek	2004		HALT	NUT	SED	6.93
2212		Fritz Creek	Forks to Medicine Lodge Creek	2004			NUT	TEMP	2.88

2215	Warm Springs Creek	Headwaters to Sinks	2004				NUT	SED		19.42
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			53.15

HUC#17040216

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2154		Birch Creek	Reno Ditch to Sinks	2004		QALT HALT	NUT	SED		16.84
				NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			16.84

HUC#17040217

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)				STREAM MILES
2145		Wet Creek	Coal Creek to Little Lost River	1999		QALT		SED	TEMP		15.89
2148		Sawmill Creek	Mill Creek to Little Lost River	1999				SED	TEMP		12.31
5656		Little Lost River	Big Spring Creek to canal	2006	*ADD*				TEMP	UNKN	26.12
5660		Little Lost River	Headwaters to Big Spring Creek	2006	*ADD*					UNKN	5.77
				NEW MILES	31.89		TOTAL MILES OF LISTED STREAMS				60.09

HUC#17040218

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2161		Big Lost River	Moore Diversion to US 26	2003		DO QALT	NUT	SED	TEMP	19.20
2164		Big Lost River	Chilly Buttes to Mackay Reservoir	2003			NUT	SED		14.61
2167		Spring Creek	Springs to Big Lost River	2003		DO QALT	NUT	SED	TEMP	17.11
2168		Antelope Creek	Spring Creek to Big Lost River	2003		QALT		SED	TEMP	16.19
2176		Twin Bridges Creek	Headwaters to Big Lost River	2003			NUT	SED		9.09
2179		East Fork Big Lost River	Starhope Creek to Forks	2003		HALT				15.64
2180		East Fork Big Lost River	Headwaters to Starhope Creek	2003				SED	TEMP	13.04

5236	Little Boone Creek	Headwaters to E Fk Little Lost R	2006	*ADD*						UNKN	2.38
5237	Warm Springs Creek	Spring to Mackay Reservoir	2006	*ADD*						UNKN	8.65
		NEW MILES	11.03				TOTAL MILES OF LISTED STREAMS				115.91

HUC#17040219

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)					STREAM MILES
2476		Big Wood River	Little Wood River to Interstate	2001	BAC	DO QALT	NH3 NUT	SED			9.29
2477		Big Wood River	Highway 75 to Little Wood River	2001	BAC	DO QALT	NH3 NUT	SED			32.65
2478		Big Wood River	Magic Reservoir to Highway 75	2001	*ADD*	QALT	NUT	SED			28.39
2482		Big Wood River	Glendale Diversion to T1NR18ES35	2001		QALT					5.45
2483		Big Wood River	Trail Creek to Glendale Diversion	2001		QALT					20.84
2487		Rock Creek	Headwaters to Magic Reservoir	2001	BAC	HALT		SED	TEMP		12.02
2491		Croy Creek	Elk Creek to Big Wood River	2001		QALT	NUT	SED			5.77
5290		Owl Creek	Headwaters to Big Wood River	2006	*ADD*					UNKN	4.86
5291		Eagle Creek	Headwaters to Big Wood River	2006	*ADD*					UNKN	6.34
5292		Baker Creek	Headwaters to Norton Creek	2006	*ADD*					UNKN	4.45
5293		Placer Creek	Headwaters to Warm Springs Creek	2006	*ADD*					UNKN	4.31
5294		Greenhorn Creek	Headwaters to Big Wood River	2006	*ADD*					UNKN	7.75
5295		East Fork Wood River	Headwaters to Blind Canyon	2006	*ADD*					UNKN	3.79
5296		Cove Creek	Headwaters to East Fk Wood River	2006	*ADD*					UNKN	6.91
5297		Quigley Creek	Headwaters to mouth	2006	*ADD*					UNKN	7.25

5298	Seamans Creek	Headwaters to Big Wood River	2006	*ADD*			UNKN	12.31
5299	East Fork Rock Creek	Headwaters to Rock Creek	2006	*ADD*			UNKN	3.06
5300	Thorn Creek	Thorn Reservoir to Schooler Creek	2006	*ADD*			UNKN	7.59
7613	Horse Creek	Headwaters to Big Wood River	2006	*ADD*			UNKN	2.23
7614	Lake Creek	Headwaters to Big Wood River	2006	*ADD*			UNKN	5.22
		NEW MILES	78.74			TOTAL MILES OF LISTED STREAMS		190.48

HUC#17040220

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2532		Camas Creek	Headwaters to Macon Flat Bridge	2003					SED		51.32
2537		Soldier Creek	Baseline to Camas Creek	2003		BAC	DO QALT	NUT	SED		6.70
2539		Mormon Reservoir		2003		BAC	DO QALT	NUT	SED		.00
5301		Little Beaver Creek	Headwaters to Beaver Creek	2006	*ADD*					UNKN	4.34
5302		Camp Creek	Headwaters to Camas Creek	2006	*ADD*					UNKN	12.65
5303		Willow Creek	Beaver Creek to Camas Creek	2006	*ADD*					UNKN	9.04
5304		Elk Creek	Base Line Road to Camas Creek	2006	*ADD*					UNKN	2.46
5305		McKinney Creek	Headwaters to Mormon Reservoir	2006	*ADD*					UNKN	10.11
5306		Corral Creek	Highway 20 to Camas Creek	2006	*ADD*					UNKN	3.98
5307		Cow Creek	Headwaters to Cow Creek Reservoir	2006	*ADD*					UNKN	2.91
5308		Wild Horse Creek	Highway 20 to Camas Creek	2006	*ADD*					UNKN	2.71
5309		Beaver Creek	Headwaters to Willow Creek	2006	*ADD*					UNKN	5.98

			NEW MILES	54.18				TOTAL MILES OF LISTED STREAMS			112.20
HUC#17040221											
WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2511		Little Wood River	Richfield (town) to Big Wood River	2003		BAC	DO QALT	NUT	SED		50.76
2512		Little Wood River	Silver Creek to Richfield (town)	2003				NUT	SED		19.17
2513		Little Wood River	East Canal Diversion to Silver Cr	2003				NUT	SED		19.42
2515		Little Wood River Reservoir		2003		BAC	DO QALT	NUT	SED		.00
2521		Dry Creek	Headwaters to Little Wood River	2003		BAC	DO QALT	NUT	SED		13.87
2522		Fish Creek	Fish Creek Reservoir to Carey Lake	2003		BAC	DO QALT	NUT	SED		12.73
2523		Fish Creek Reservoir		2003		BAC	DO QALT	NUT	SED		.00
5288		Muldoon Creek	South Fk Muldoon Creek to Little Wood River	2006	***ADD***					UNKN	3.56
5289		Loving Creek	Headwaters to Silver Creek	2006	***ADD***					UNKN	4.05
5650		Fish Creek	Headwaters to Fish Creek Reservoir	2006	***ADD***	BAC	DO QALT	NUT	SED		12.95
			NEW MILES	20.56				TOTAL MILES OF LISTED STREAMS			136.51
HUC#17050101											
WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2414		C J Strike Reservoir		2004				NUT	PST		.00
2415		Snake River	King Hill to HWY 51 Bridge	2004					SED		33.45
2418		Browns Creek	Headwaters to Snake River	2004					SED		17.18
2420		Sailor Creek	Headwaters to Snake River	2004					SED		64.06

2422	Ryegrass Creek	Headwaters to Cold Springs Creek	2004					SED		15.68
2423	Alkali Creek	Headwaters to Snake River	2004					SED		16.36
2424	Little Canyon Creek	Headwaters to Snake River	2004			QALT		SED		28.77
2425	Deadman Creek	Conflu of E & W Fks to Snake River	2004					SED		38.92
5641	Bennett Creek	Headwaters to Snake River	2006	*ADD*					UNKN	32.41
5642	Cold Springs Creek	Ryegrass Creek to Snake River	2006	*ADD*					UNKN	7.03
		NEW MILES	39.44			TOTAL MILES OF LISTED STREAMS				253.86

HUC#17050102

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)				STREAM MILES
2414		C J Strike Reservoir		2000			NUT	PST			.00
2549		Bruneau River	Hot Creek to CJ Strike Reservoir	2000		QALT	NUT		SED	TEMP	14.44
2551		Jacks Creek	Little Jacks Cr to CJ Strike Res	2000		DO QALT	NUT		SED	TEMP	12.31
2552		Sugar Creek	Headwaters to Jacks Creek	2000					SED		36.34
2555		Wickahoney Creek	2.5 miles below headwaters to Big Jacks Creek	2000		QALT			SED		15.55
2557		Hot Creek	Headwaters to Bruneau River	2000	BAC	QALT			SED		21.79
2558		Clover Creek	71 Draw to Bruneau River	2000					SED		52.61
2561		Three Creek	Headwaters to Clover Creek	2000					SED		14.29
2567		Cougar Creek	Headwaters to Jarbidge River	2000					SED		23.07
2568		Poison Creek	Headwaters to Jarbidge River	2000					SED		32.33

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NEW MILES 0.00 TOTAL MILES OF LISTED STREAMS 222.73

HUC#17050103

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)				STREAM MILES
2668		Snake River	Swan Falls to Boise River	2002		BAC	DO QALT	NUT	pH	SED		54.70
2669		Snake River	Castle Creek to Swan Falls	2002						SED		13.27
2670		Snake River	CJ Strike Res to Castle Creek	2002						SED		23.46
2671		Succor Creek	Oregon line to Snake River	2002						SED		5.38
2672		McBride Creek	Headwaters to Oregon Line	2002			QALT			SED	TEMP	11.81
2673		Jump Creek	Headwaters to Snake River	2002			HALT					20.54
2674		Squaw Creek	Unnamed trib 3.9 km upstream to Snake River	2002						SED		2.40
2675		Hardtrigger Creek	Headwaters to Snake River	2002						SED		12.55
2676		Reynolds Creek	Diversion to Snake River	2002						SED		4.06
2677		Rabbit Creek	Headwaters to Snake River	2002						SED		11.87
2679		Sinker Creek	Diamond Creek to Snake River	2002	*ADD*		QALT			SED	TEMP	10.77
2680		Castle Creek	T5SR1ES28 to Snake River	2002			QALT			SED	TEMP	12.78
2681		Pickett Creek	T5SR1WS32 to Catherine Creek	2002						SED		4.85
2682		Brown Creek	Headwaters to Catherine Creek	2002						SED		16.99
2683		South Fork Castle Creek	Headwaters to Castle Creek	2002		BAC						10.27
2684		Birch Creek	Headwaters to Snake River	2002						SED		27.24
2685		Corder Creek	Headwaters to Snake River	2002						SED		17.50

2687	Poison Creek	Headwaters to Shoofly Creek	2002			SED		17.45
6671	Succor Creek	Headwaters to Oregon Line	2002		QALT	SED	TEMP	22.19
6681	Pickett Creek	Headwaters to T5SR1W32	2002		QALT	SED	TEMP	11.52
		NEW MILES	8.51		TOTAL MILES OF LISTED STREAMS			311.60

HUC#17050104

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2613		Red Canyon	Headwaters to Owyhee River	2001		QALT		SED	TEMP	5.22
2614		Deep Creek	Headwaters to Owyhee River	2001				SED	TEMP	46.14
2616		Castle Creek	Headwaters to Deep Creek	2001				SED	TEMP	11.15
2617		Pole Creek	Headwaters to Deep Creek	2001		QALT		SED	TEMP	23.98
2621		Battle Creek	Headwaters to Owyhee River	2001	BAC					62.33
2625		Juniper Basin Reservoir		2001				SED		.00
2627		Blue Creek Reservoir		2001				SED		.00
2630		Shoofly Creek	Headwaters to Blue Creek	2001	BAC					22.85
6618		Nickel Creek	Headwaters to Mud Flat Road	2001				SED		2.79
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			174.46

HUC#17050105

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2632		South Fork Owyhee River	Nevada Line to Owyhee River	1999		QALT		SED	TEMP	32.33
			NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			32.33

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HUC#17050107

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)				STREAM MILES
2640		Middle Fork Owyhee River	Headwaters to Oregon Line	1999		QALT			SED TEMP	8.64
2641		North Fork Owyhee River	Headwaters to Oregon Line	1999	BAC					22.51
2642		Squaw Creek	Headwaters to Oregon Line	1999		QALT			SED TEMP	13.05
2644		Juniper Creek	Headwaters to N Fk Owyhee River	1999		QALT			SED TEMP	11.72
2645		Pleasant Valley Creek	Headwaters to N Fk Owyhee River	1999		QALT			SED TEMP	10.79
2646		Noon Creek	Headwaters to N Fk Owyhee River	1999					SED TEMP	9.13
			NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS	75.84

HUC#17050108

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)					STREAM MILES
2648		Jordan Creek	Williams Creek to Oregon Line	2004	BAC			O/G PST	SED		9.49
2649		Jordan Creek	Headwaters to Williams Creek	2004	BAC		MTH	O/G PST	SED		31.48
2656		Rock Creek	Headwaters to Triangle Reservoir	2004		QALT			SED	TEMP	17.28
2657		Meadow Creek	Headwaters to Rock Creek	2004		QALT				TEMP	11.93
2660		Louse Creek	Headwaters to Jordan Creek	2004		QALT	MTU	pH	SED		9.79
2662		Soda Creek	Headwaters to Cow Creek	2004					SED		7.51
6656		Louisa Creek	Headwaters to Triangle Reservoir	2004		QALT			SED	TEMP	8.16
6661		Cow Creek	Headwaters to Oregon Line	2004		QALT			SED	TEMP	12.28
			NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS		107.92

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HUC#17050111

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
5026		Browns Creek	Headwaters to M Fk Boise River	2000			SED	6.45
5028		Buck Creek	Headwaters to M Fk Boise River	2000			SED	7.18
				NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS		13.63

HUC#17050112

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
5117		Macks Creek	Headwaters to Grimes Creek	2005			SED	6.42
5126		South Fork Minneha Creek	Headwaters to Mores Creek	2005	*ADD*		SED	8.75
				NEW MILES	3.37	TOTAL MILES OF LISTED STREAMS		15.17

HUC#17050113

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
2572		South Fork Boise River	Anderson Ranch Res to Arrowrock Res	2000			SED	28.73
2575		Willow Creek	Headwaters to Arrowrock Reservoir	2000			SED	14.95
2577		Rattlesnake Creek	Headwaters to S Fk Boise River	2000			SED	15.91
2578		Smith Creek	Tiger Creek to South Fk Boise River	2000			SED	14.51
5038		Cayuse Creek	Headwaters to S Fk Boise River	2000			SED	3.23
5060		Deer Creek	Headwaters to Anderson Ranch Res	2000			SED	1.33
5071		Elk Creek	Headwaters to Feather River	2000			SED	7.04
5639		Little Smoky Creek	Headwaters to Carrie Creek	2006	*ADD*		UNKN	11.32
				NEW MILES	11.32	TOTAL MILES OF LISTED STREAMS		97.02

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HUC#17050114

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
2726		Boise River	Notus (town) to Snake River	1998	BAC		NUT	SED	TEMP	15.83
2727		Boise River	Star (town) to Notus (town)	1998	BAC		NUT	SED	TEMP	21.49
2728		Boise River	Barber Diversion to Star	1998				SED		25.27
2729		Boise River	Lucky Peak to Barber Diversion	1998		QALT				5.26
2730		Sand Hollow Creek	Headwaters to Boise River	1998		DO	NUT	SED		23.67
2731		Indian Creek	New York Canal to Boise River	1998		DO	NUT O/G	SED		16.62
2732		Indian Creek	Headwaters to New York Canal	1998			NUT	SED		39.06
2733		Mason Creek	Headwaters to Boise River	1998		DO	NUT	SED		17.75
2734		Fivemile Creek	Headwaters to Fifteenmile Creek	1998		DO	NUT	SED		28.92
2736		Tenmile Creek	Headwaters to Fifteenmile Creek	1998		DO	NUT	SED		27.15
2737		Blacks Creek	Headwaters to Blacks Creek Res.	1998		DO	NUT	SED		13.22
5637		Willow Creek	Headwaters to Boise River	2006	*ADD*				UNKN	51.49
5638		Cottonwood Creek	Headwaters to Freestone Creek	2006	*ADD*				UNKN	6.82
5640		Lake Lowell		2006	*ADD*	DO	NUT			.00
			NEW MILES	58.31			TOTAL MILES OF LISTED STREAMS			292.55

HUC#17050115

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2664		Snake River	Boise River to Weiser River	2001	BAC	NUT	pH	SED	42.00
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			42.00

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HUC#17050120

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
5186		South Fork Payette River	Wilderness bnd to Payette River	2002		SED	59.47
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	59.47

HUC#17050121

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
2703		Middle Fork Payette River	Big Bulldog Creek to South Fk Payette River	1998		SED	13.00
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	13.00

HUC#17050122

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
2689		Payette River	Black Canyon Dam to Snake River	1999	BAC	NUT TEMP	39.22
2690		Black Canyon Reservoir		1999		NUT O/G SED	.00
2695		Bissel Creek	Headwaters to Payette River	1999		SED	16.99
2697		Soldier Creek	Headwaters to Squaw Creek	1999		SED	8.96
5635		Big Willow Creek	Rock Creek to Payette River	2006	*ADD*	UNKN	23.46
			NEW MILES	23.46		TOTAL MILES OF LISTED STREAMS	88.63

HUC#17050123

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
2884		Cascade Reservoir		2003	DO	NUT pH	.00
2889		Round Valley Creek	Headwaters to N Fk Payette River	2003		SED	5.66
2890		Clear Creek	Headwaters to N Fk Payette River	2003		SED	17.78
2891		Big Creek	Horsethief Creek to North Fk Payette River	2003		SED	6.50

2893	Gold Fork River	Flat Creek to Cascade Reservoir	2003				NUT	SED			5.36
2895	Boulder Creek	Headwaters to Cascade Reservoir	2003			DO QALT	NUT	SED	TEMP		20.46
2898	Mud Creek	Headwaters to Cascade Reservoir	2003		BAC	DO	NH3 NUT	SED			12.04
5625	Brush Creek	Headwaters to North Fk Payette River	2006	*ADD*						UNKN	5.06
5626	Landing Creek	Headwaters to Deadhorse Creek	2006	*ADD*						UNKN	2.42
5627	Elip Creek	Headwaters to Lemah Creek	2006	*ADD*						UNKN	3.00
5628	Lake Fork	Headwaters to Cascade Reservoir	2006	*ADD*						UNKN	25.93
5629	Willow Creek	Headwaters to Cascade Reservoir	2006	*ADD*						UNKN	8.18
5631	Duck Creek	Headwaters to Cascade Reservoir	2006	*ADD*						UNKN	2.07
5632	Van Wyck Creek	Headwaters to Cascade Reservoir	2006	*ADD*						UNKN	2.47
5633	Tripod Creek	Headwaters to North Fk Payette River	2006	*ADD*						UNKN	5.40
6882	North Fork Payette River	Clear Creek to Smiths Ferry	2003			QALT HALT	NUT	SED	TEMP		9.53
6897	Browns Pond		2003			HALT					.00
			NEW MILES	54.53			TOTAL MILES OF LISTED STREAMS				131.86

HUC#17050124

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
2834		Weiser River	Galloway Dam to Snake River	2003		BAC	DO	NUT	SED	TEMP	12.39
2835		Weiser River	West Fk Weiser River to Little Weiser River	2003				NUT	SED		20.84
2837		Mann Creek	Mann Creek Res to Weiser River	2003					SED		12.96

2839	Cove Creek	Headwaters to Weiser River	2003				NUT		SED			13.99
2840	Crane Creek	Crane Creek Res to Weiser River	2003	BAC			NUT		SED			12.60
2841	Crane Creek Reservoir		2003				NUT		SED			.00
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	2003	BAC	QALT		NUT		SED	TEMP		24.65
2845	Little Weiser River	Indian Valley to Weiser River	2003				NUT		SED			17.23
5623	South Crane Creek	Headwaters to Crane Creek Reservoir	2006	*ADD*							UNKN	9.17
5624	West Fork Weiser River	Headwaters to Weiser River	2006	*ADD*							UNKN	15.88
5636	Johnson Creek	Headwaters to Weiser River	2006	*ADD*							UNKN	13.69
6834	Weiser River	Little Weiser River to Galloway Dam	2003	BAC			NUT		SED			31.50
			NEW MILES	38.74					TOTAL MILES OF LISTED STREAMS			184.90

HUC#17050201

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)					STREAM MILES
2817		Snake River	Brownlee Dam to Oxbow Dam	2001				NUT	PST	SED			11.59
2818		Brownlee Reservoir		2001		DO	MTH	NUT	pH	SED			.00
2819		Snake River	Weiser (town) to Brownlee Dam	2001		DO		NUT	pH	SED			33.87
2825		Dennett Creek	Headwaters to Snake River	2001		QALT				SED	TEMP		6.46
2828		Warm Springs Creek	Headwaters to Snake River	2001				NUT		SED			12.64
2829		Hog Creek	Headwaters to Snake River	2001				NUT		SED			9.94
2830		Scott Creek	Headwaters to Snake River	2001				NUT		SED			18.30
				NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS			92.80

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HUC#17060101

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2905		Divide Creek	Headwaters to Snake River	2005			SED		14.34
2906		Wolf Creek	Headwaters to Snake River	2005			SED		14.29
2907		Getta Creek	Headwaters to Snake River	2005			SED		9.21
2912		Deep Creek	Red Ledge Mine to Snake River	2005		MTU pH	SED		2.09
				NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			39.93

HUC#17060103

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
3311		Tammany Creek	Headwaters to Snake River	2005			SED		13.79
				NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			13.79

HUC#17060108

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
3122		Deep Creek	Headwaters to Palouse River	2003	BAC	QALT HALT NUT	SED	TEMP	12.16
3123		Flannigan Creek	Headwaters to Palouse River	2003	BAC	QALT HALT NUT	SED	TEMP	9.50
3124		West Fork Rock Creek	Headwaters to Palouse River	2003	BAC	QALT HALT NUT	SED	TEMP	9.28
3125		Gold Creek	Waterhole Creek to Palouse River	2003	BAC	QALT HALT NUT	SED	TEMP	4.45
3126		Hatter Creek	Headwaters to Palouse River	2003	BAC	QALT HALT NUT	SED	TEMP	9.79
3128		Big Creek	Headwaters to Palouse River	2003	BAC	QALT HALT NUT	SED	TEMP	8.44
3134		South Fork Palouse River	Headwaters to Washington Line	2003	BAC	QALT HALT NUT	SED	TEMP	13.42
3136		Cow Creek	Headwaters to Washington line	2003		HALT NUT		TEMP	18.50
				NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			85.54

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HUC#17060201

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)				STREAM MILES
3009		Salmon River	Redfish Lake Cr to E Fk Salmon R	2001				SED	TEMP	44.45
3010		Salmon River	Hellroaring Cr to Redfish Lake Cr	2001				SED		13.34
3013		Challis Creek	Forest Boundary to Salmon River	2001		QALT	NUT	SED		9.35
3017		Garden Creek	Forest Boundary to Salmon River	2001			NUT	SED		14.39
3019		Warm Spring Creek	Headwaters to Sink	2001			NUT	SED		21.56
3031		Thompson Creek	Scheelite Jim mill site to Salmon River	2001		MTU		SED		1.02
3035		Yankee Fork	Jordan Cr. to Salmon River	2001		HALT		SED		9.00
3036		Yankee Fork	Fourth of July Creek to Jordan Creek	2001		HALT		SED		2.92
5226		Lost Creek	Headwaters to sink	2006	*ADD*				UNKN	4.45
5227		Kinnikinic Creek	Sawmill Creek to Salmon River	2006	*ADD*				UNKN	2.99
7009		Road Creek	Headwaters to E Fk Salmon River	2001					UNKN	15.77
			NEW MILES	7.44			TOTAL MILES OF LISTED STREAMS			139.24

HUC#17060202

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)				STREAM MILES
3099		Pahsimeroi River	Dowton Lane to Salmon River	2001			NUT	SED		9.19
3100		Pahsimeroi River	Mahogany Creek to Dowton Lane	2001			NUT	SED		39.51
3102		Patterson Creek	Inyo Creek to Pahsimeroi River	2001		QALT		SED		18.79
3106		Morse Creek	Forest Boundary to Pahsimeroi River	2001		QALT	NUT	SED		5.80
3110		Big Creek	Forest Boundary to Pahsimeroi River	2001			NUT	SED		11.99

			NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS		85.28
HUC#17060203											
WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)				STREAM MILES
2952		Bucktail Creek	Headwaters to S Fk Big Deer Creek	2000			MTU				1.82
2964		Salmon River	Pahsimeroi River to Salmon River, N	2000						UNKN	67.59
2967		Panther Creek	Blackbird Creek to Salmon River	2000			MTU				24.55
2972		Big Deer Creek	Big Deer Cr. S.Fk to Panther Cr.	2000			MTU	pH	SED		2.98
2977		Blackbird Creek	Blackbird Creek Reservoir to Panther Creek	2000			MTU	pH	SED		5.97
2989		Dump Creek	Headwaters to Salmon River	2000					SED		6.48
5239		Williams Lake		2000	*ADD*	DO	NUT				.00
5240		Diamond Creek	Headwaters to Salmon River	2006	*ADD*					UNKN	4.70
			NEW MILES	4.70					TOTAL MILES OF LISTED STREAMS		114.09
HUC#17060204											
WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)				STREAM MILES
3067		Wimpey Creek	BLM boundary to Lemhi River	1998			NUT		SED		6.62
3077		McDevitt Creek	BLM boundary to Lemhi River	1998					SED		2.83
3082		Mill Creek	Forest boundary to Lemhi River	1998		QALT	NUT		SED		5.35
3095		Hawley Creek	First Diversion to Eighteenmile Creek	1998			NUT		SED		6.09
5264		Short Creek	Headwaters to Bear Valley Creek	2006	*ADD*					UNKN	1.83
5265		Cruikshank Creek	Headwaters to Canyon Creek	2006	*ADD*					UNKN	3.21

7611	Lemhi River	Conflu of Texas & 18-mile Creeks to Salmon River	2006	*ADD*	BAC				57.29
			NEW MILES	62.33		TOTAL MILES OF LISTED STREAMS			83.22

HUC#17060205

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
2805		Elkhorn Creek	Headwaters to Middle Fk Salmon Rive	2005		QALT	SED	TEMP	7.41
2808		Bear Valley Creek	Headwaters to Wilderness Boundary	2005			SED		29.23
5013		Bearskin Creek	Headwaters to Elk Creek	2005			SED		8.44
5033		Cache Creek	Headwaters to Bear Valley Creek	2005			SED		7.61
5046		Cook Creek	Headwaters to Elk Creek	2005			SED		6.10
5053		Cub Creek	Headwaters to Bear Valley Creek	2005			SED		2.62
5055		Dagger Creek	Headwaters to Bear Valley Creek	2005			SED		7.72
5077		Fir Creek	Headwaters to Bear Valley Creek	2005			SED		6.85
5149		Porter Creek	Headwaters to Elk Creek	2005			SED		6.17
5164		Sheep Trail Creek	Headwaters to Bear Valley Creek	2005			SED		2.25
6808		Bear Valley Creek	Wilderness boundary to M Fk Salmon	2005			SED		1.52
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			85.92

HUC#17060206

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
2775		Monumental Creek	Headwaters to Fall Creek	2005		SED	7.77
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	7.77

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HUC#17060207

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
3346		Salmon River	Corn Creek to Cherry Creek	2000			UNKN	76.90
3349		Crooked Creek	Headwaters to Salmon River	2000			SED	21.25
3351		Big Creek	Headwaters to Crooked Creek	2000			SED	12.25
3352		Warren Creek	Headwaters to Wilderness Bo.	2000		HALT		16.15
5018		Big Mallard Creek	Headwaters to Salmon River	2000			SED	18.77
5099		Jersey Creek	Headwaters to Salmon River	2000			SED	7.65
5109		Little Mallard Creek	Headwaters to Salmon River	2000			SED	8.78
5156		Rhett Creek	Headwaters to Salmon River	2000			SED	8.39

NEW MILES 0.00 TOTAL MILES OF LISTED STREAMS 170.14

HUC#17060208

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
2915		South Fork Salmon River	Station Creek to Salmon River	2000			SED	2.38
2916		South Fork Salmon River	Wilderness to Station Creek	2000			SED	8.77
2917		South Fork Salmon River	Secesh River to Wilderness Bnd	2000			SED	24.78
2918		South Fork Salmon River	Buckhorn Creek to Secesh River	2000			SED	9.03
2919		South Fork Salmon River	Rice Creek to Buckhorn Creek	2000			SED	34.52
2920		South Fork Salmon River	Headwaters to Rice Creek	2000			SED	9.24
2934		East Fork South Fork Salmon River	Johnson Creek to Salmon River	2000		MTU	SED	14.47
2935		East Fork South Fork	Sugar Creek to Johnson Creek	2000		MTU	SED	10.96

	Salmon River							
2936	East Fork South Fork Salmon River	Headwaters to Sugar Creek	2000		MTU	SED		7.04
2940	Johnson Creek	Ice Hole Campgrnd to S Fk Salmon R	2000			SED		2.55
2941	Johnson Creek	Halfway Creek to Ice Hole Campgrnd	2000			SED		12.70
2942	Johnson Creek	Headwaters to Halfway Creek	2000			SED		23.13
2959	Rice Creek	Headwaters to Salmon River, S.F.	2000				UNKN	6.36
5066	Dollar Creek	Headwaters to S Fk Salmon River	2000			SED		7.93
5195	Trail Creek	Headwaters to Curtis Creek	2000			SED		4.49
5199	Trout Creek	Headwaters to Johnson Creek	2000			SED		5.17
5203	Tyndall Creek	Headwaters to Johnson Creek	2000			SED		1.06
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		184.58

HUC#17060209

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3321		China Creek	Headwaters to Salmon River	2004				SED		8.55
3323		Deer Creek	Headwaters to Salmon River	2004				SED		23.36
3324		Cottonwood Creek	Headwaters to Salmon River	2004				SED		10.31
3325		Maloney Creek	Headwaters to Salmon River	2004	BAC	QALT	NUT	SED	TEMP	10.14
3326		Deep Creek	Headwaters to Salmon River	2004	BAC	QALT HALT	NUT	SED	TEMP	11.66
3327		Rice Creek	Headwaters to Salmon River	2004				SED		14.48
3328		Rock Creek	Conflu of Johns and Telcher Creeks	2004				SED		9.28

		to Salmon R				
3329	Grave Creek	Headwaters to Rock Creek	2004		SED	10.54
3333	Slate Creek	Headwaters to Salmon River	2004		SED	21.91
3334	Little Slate Creek	Headwaters to Slate Creek	2004		SED	14.81
3336	Race Creek	Headwaters to Salmon River	2004		SED	8.29
5003	Allison Creek	Headwaters to Salmon River	2004		SED	8.27
5041	China Creek	Headwaters to Salmon River	2004		SED	5.08
5050	Cow Creek	Headwaters to Salmon River	2004		SED	5.12
5101	Jungle Creek	Headwaters to S Fk White Bird Creek	2004		SED	2.16
5102	Kessler Creek	Headwaters to S Fk Race Creek	2004		SED	4.44
5108	Little Boulder Creek	Headwaters to Big Boulder Creek	2004		SED	4.30
5111	Little White Bird Creek	Headwaters to S Fk White Bird Creek	2004		SED	5.75
5146	Pinnacle Creek	Headwaters to S Fk White Bird Creek	2004		SED	5.86
5171	Skookumchuck Creek	Conflu of N & S Fks to Salmon River	2004		SED	3.35
5201	Turnbull Creek	Headwaters to Little Slate Creek	2004		SED	3.02
5204	Van Buren Creek	Headwaters to Little Slate Creek	2004		SED	5.30
			NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	195.98

HUC#17060210

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)	STREAM MILES
2863		Little Salmon River	Round Valley Creek to Salmon River	2004		UNKN	24.89

2865	Squaw Creek	Headwaters to Little Salmon	2004					UNKN	5.61
2869	Elk Creek	Headwaters to Little Salmon	2004				SED		7.41
2877	Big Creek	Headwaters to Little Salmon River	2004			NUT	SED		15.12
5094	Indian Creek	Headwaters to Little Salmon	2004				SED		2.46
5165	Shingle Creek	Headwaters to Rapid River	2004				SED		5.45
6875	Brundage Reservoir		2004					TEMP	.00
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			60.94

HUC#17060302

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
3262		O'Hara Creek	Hamby Fork to Selway River	2000			SED	4.42
5096		Island Creek	Headwaters to Selway River	2000			SED	3.97
5172		Slide Creek	Headwaters to Selway River	2000			SED	4.17
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		12.56

HUC#17060303

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)		STREAM MILES
3236		Lochsa River	Crooked Fk/Walton to Selway/MF Clea	1999			TEMP	68.74
			NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		68.74

HUC#17060305

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
3288		Cottonwood Creek	Headwaters to SF Clearwater	1999	BAC	DO	HALT	NH3 NUT	SED	TEMP	31.19
3289	T/R	Red Rock Creek	Headwaters to Cottonwood Creek	2001					SED		11.04
3290		South Fork Cottonwood	Headwaters to Cottonwood Creek	2001	BAC		HALT	NUT		TEMP	6.96

	Creek									
3291	Threemile Creek	Headwaters to S Fk Clearwater River	2001		BAC	DO QALT HALT	NH3 NUT	SED	TEMP	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	2001		BAC	DO QALT HALT		SED	TEMP	12.37
3301	Newsome Creek	Beaver Creek to South Fk Clearwater River	2001					SED		6.91
4002	Lucas Lake		2001					SED		.00
5015	Beaver Creek	Headwaters to Newsome Creek	2001					SED		4.95
5030	Buffalo Gulch	Headwaters to American River	2001					SED		6.49
5056	Dawson Creek	Headwaters to Red River	2001					SED		2.29
5136	Nugget Creek	Headwaters to Newsome Creek	2001					SED		2.72
5169	Sing Lee Creek	Headwaters to Newsome Creek	2001					SED		3.09
5185	South Fork Clearwater River	Red River to Clearwater River	2001			HALT		SED	TEMP	63.79
5217	Cougar Creek	Headwaters to SF Clearwater	2001					SED		6.37
5221	Long Haul Creek	Headwaters to S Fk Cottonwood Creek	2006	*ADD*					UNKN	1.64
5644	Shebang Creek	Headwaters to Cottonwood Creek	2006	*ADD*					UNKN	14.56
7288	Stockney Creek	Headwaters to Cottonwood Creek	2001		BAC			SED		11.95
			NEW MILES	16.20			TOTAL MILES OF LISTED STREAMS			204.50

HUC#17060306

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS			POLLUTANT(S)			STREAM MILES
3137	T/R	Long Hollow Creek	Headwaters to Little Canyon	2003		BAC	DO QALT HALT	NUT	SED		16.03

3139	Clearwater River	Confluence of North Fork to Washington line	2003								TDG		40.03
3140 T/R	Holes Creek	Headwaters to Little Canyon	2003	BAC	DO	QALT	HALT	MTU	NH3	NUT	O/G	ORG	PST	SED			9.08
3141	Lindsay Creek	Boundary to Clearwater River	2003	BAC	DO	QALT	HALT			NUT				SED	TEMP		7.35
3142	Hatwai Creek	Headwaters to Clearwater River	2003	BAC			HALT			NUT					TEMP		7.93
3143 T/R	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	2003	BAC	DO	QALT	HALT			NUT				SED	TEMP		16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	2003	BAC	DO	QALT	HALT			NUT		ORG	PST	SED	TEMP		19.53
3146	Webb Creek	Headwaters to IR Boundary	2003	BAC	DO	QALT	HALT			NUT				SED	TEMP		5.58
3148 T/R	Catholic Creek	Headwaters to Clearwater River	2003	BAC	DO	QALT	HALT		NH3	NUT		ORG		SED	TEMP		9.60
3149 T/R	Potlatch River	Bear Creek to Clearwater River	2003	BAC	DO	QALT	HALT		NH3	NUT	O/G	ORG	PST	SED	TEMP		14.13
3150	Potlatch River	Headwaters to Bear Creek	2003	BAC		QALT	HALT			NUT				SED	TEMP		40.47
3155	Pine Creek	Headwaters to Potlatch River	2003	BAC		QALT	HALT			NUT				SED	TEMP		12.97
3156	Cedar Creek	Leopold Creek to Potlatch River	2003		CHS												5.17
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	2003	BAC		QALT	HALT			NUT				SED	TEMP		4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	2003	BAC		QALT	HALT			NUT				SED	TEMP		2.14
3159	Moose Creek	Headwaters to Potlatch River	2003	BAC		QALT	HALT			NUT			pH	SED	TEMP		5.76
3161 T/R	Pine Creek	Boundary to Clearwater River	2003						NH3	NUT	O/G			SED			1.95
3162	Bedrock Creek	Headwaters to Boundary	2003	BAC	DO	QALT	HALT		NH3	NUT	O/G			SED	TEMP		6.08

3164 T/R	Big Canyon Creek	Sixmile Canyon to Clearwater R.	2003		BAC	QALT HALT	NUT	SED	TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	1999		BAC	DO QALT HALT	NH3 NUT O/G	SED	TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	2003		BAC	QALT HALT	NUT	SED	TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	2003		BAC	DO QALT HALT	NUT O/G	SED	TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	2003		BAC	QALT HALT	NUT	SED	TEMP	13.33
3179 T/R	Sixmile Creek	Headwaters to Clearwater River	2003		BAC	DO QALT HALT	NH3 NUT O/G ORG PST	SED	TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	2003		BAC	DO QALT HALT	NH3 NUT O/G	SED	TEMP	7.30
3181 T/R	Sevenmile Creek	Headwaters to Lawyer Creek	2003			HALT		SED		7.25
4010	Pine Creek	Headwaters to Boundary	2003		BAC	DO QALT HALT	NUT	SED	TEMP	10.01
5048	Corral Creek	Headwaters to Potlatch Creek	2003					SED		9.94
5125	Middle Potlatch Creek	Headwaters to Potlatch River	2003		BAC	QALT HALT	NUT	SED	TEMP	16.42
5130	Mud Creek	Headwaters to Lolo Creek	2003					SED		3.83
5211	West Fork Potlatch River	Cougar Creek to Potlatch River	2003					SED		3.07
5216	Yakus Creek	Molly Creek to Lolo Creek	2003					SED		2.94
5222	Texas Creek	Headwaters to Lolo Creek	2006	*ADD*					UNKN	5.71
5223	Schmidt Creek	Headwaters to Lolo Creek	2006	*ADD*					UNKN	4.48
5224	Boulder Creek	Pig Creek to Potlatch River	2006	*ADD*					UNKN	2.83
7143 T/R	Winchester Lake		1998		BAC	DO QALT HALT	NUT PST	SED	TEMP	.00
7162 T/R	Bedrock Creek	Boundary to Clearwater River	2003				NUT	SED		3.46

7164	T/R	Big Canyon Creek	Headwaters to Sixmile Canyon	2003		BAC	DO QALT HALT	NH3	ORG PST	TEMP	19.45
				NEW MILES	13.02			TOTAL MILES OF LISTED STREAMS			420.43

HUC#17060307

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS	POLLUTANT(S)			STREAM MILES
3215		Orogrande Creek	Headwaters to N Fk Clearwater River	2000			SED		19.51
3225		Osier Creek	Headwaters to Moose Creek	2000		QALT HALT	SED	TEMP	8.09
3229		Gravey Creek	Headwaters to Cayuse Creek	2000			SED		8.96
5040		China Creek	Headwaters to Osier Creek	2000			SED		4.89
5045		Cold Springs Creek	Headwaters to N Fk Clearwater R	2000			SED		4.84
5047		Cool Creek	Headwaters to Cold Springs Creek	2000			SED		3.32
5049		Cougar Creek	Headwaters to Quartz Creek	2000			SED		3.69
5059		Deception Gulch	Headwaters to N Fk Clearwater R	2000			SED		4.74
5088		Grizzly Creek	Headwaters to Quartz Creek	2000			SED		4.53
5093		Hem Creek	Headwaters to Sylvan Creek	2000			SED		4.96
5104		Laundry Creek	Headwaters to Osier Creek	2000			SED		4.39
5119		Marten Creek	Headwaters to Gravey Creek	2000			SED		4.47
5123		Middle Creek	Headwaters to Weitas Creek	2000			SED		13.32
5178		Sneak Creek	Headwaters to N Fk Clearwater	2000		CHS			3.49
5189		Sugar Creek	Headwaters to Swamp Creek	2000			SED		3.99
5190		Swamp Creek	Headwaters to Osier Creek	2000			SED		5.39

5192	Sylvan Creek	Headwaters to French Creek	2000				SED		4.31
5193	Tamarack Creek	Headwaters to Orogrande Creek	2000				SED		3.92
5200	Tumble Creek	Headwaters to Washington Creek	2000				SED		4.60
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			115.41

HUC#17060308

WQLS	T/R	WATERBODY	BOUNDARIES	YEAR	ADDS		POLLUTANT(S)			STREAM MILES
3184	T/R	North Fork Clearwater River	Dworshak Dam to conflu of Clearwater River	2002				TDG		1.91
3188		Long Meadow Creek	Headwaters to Dworshak Reservoir	2002	BAC	QALT HALT	NUT	SED	TEMP	12.15
3189		Elk Creek	Headwaters to Dworshak Reservoir	2002	BAC	QALT HALT	NUT	SED	TEMP	20.85
3190		Elk Creek Reservoir		2002	BAC	DO QALT HALT	NUT	SED	TEMP	.00
3191		Cranberry Creek	Headwaters to Dworshak Reservoir	2002	BAC	QALT HALT	NUT	SED	TEMP	6.79
3192		Swamp Creek	Headwaters to Dworshak Reservoir	2002	BAC	QALT HALT	NUT	SED	TEMP	7.36
3193		Reeds Creek	Headwaters to Dworshak Reservoir	2002				SED		15.95
3197		Breakfast Creek	Headwaters to Clearwater R.	2002		DO QALT HALT		SED		8.84
3198		Floodwood Creek	Headwaters to Breakfast Creek	2002		DO QALT HALT		SED		13.59
3199		Stoney Creek	Headwaters to Breakfast Creek	2002		DO QALT HALT		SED		12.23
5014		Beaver Creek	Headwaters to N Fk Clearwater R	2002				SED		15.97
5016		Bertha Creek	Headwaters to Beaver Creek	2002				SED		2.72
5020		Bingo Creek	Headwaters to Beaver Creek	2002				SED		2.77

Idaho Division of Environmental Quality 1998 303(d) List

5063	Dog Creek	Headwaters to Isabella Creek	2002		SED	3.88
5095	Isabella Creek	Headwaters to NF Clearwater	2002		SED	8.54
5100	Johnson Creek	Tributary to Elk Creek	2002		SED	3.27
5140	Partridge Creek	Headwaters to Elk Creek	2002		SED	4.85
5181	Sourdough Creek	Headwaters to Beaver Creek	2002		SED	3.12
5182	South Fork Beaver Creek	Headwaters to Beaver Creek	2002		SED	4.75
5209	West Fork Elk Creek	Headwaters to Elk Creek	2002		SED	3.50
			NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	153.04

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF NEW SEGMENTS:	112		
TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST:	731		
TOTAL MILES NEW TO 1998 303(d) LIST:	968	TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES:	8,229.6

2.2 THREATENED WATERS

These are water bodies whose water quality were determined by the U.S. Environmental Protection Agency to be threatened in 1994. Threatened means that while they may support beneficial uses and meet water quality standards, activities in the watershed threatened water quality in such a way, that beneficial uses and water quality standards are not likely to be met in the future. The list displays the water quality segment number, hydrologic unit number, common water body name, boundaries, pollutants for which the water body is listed, and number of miles affected.

Reference Section 2.0 for key to list headings.

Idaho Division of Environmental Quality 1998 303(d) List: Threatened Waters

HUC#16010102

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2273	Bear River	Wyoming Line to Wardboro	QALT		NUT	SED	31.10
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		31.10

HUC#17010214

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
3442	Cocolalla Creek	Cocolalla Lake to Pend Oreille Rive					SED	TEMP	8.21
3443	Cocolalla Creek	Headwaters to Cocolalla Lake					SED	TEMP	15.01
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC	DO	HALT	NUT PST	SED		19.37
3465	Granite Creek	Headwaters to Pend Oreille Lake					SED		9.69
		NEW MILES	0.00			TOTAL MILES OF THREATENED STREAMS			52.28

HUC#17010215

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
3427	Two Mouth Creek	Headwaters to Priest Lake			TEMP	9.72
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS		9.72

HUC#17010303

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
3541	Wolf Lodge Creek	Headwaters to CdA Lake	BAC	HALT	NUT	SED	10.30
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		10.30

HUC#17040104

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2006	Antelope Creek	State land bnd to S Fk Snake River				SED	11.49
5645	Snake River	Irwin to HUC boundary		QALT			32.41
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		43.90

Idaho Division of Environmental Quality 1998 303(d) List: Threatened Waters

HUC#17040201

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2003	Snake River	HUC boundary to Heise		QALT			3.62
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		3.62

HUC#17040206

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
2347 T/R	Snake River	Ferry Butte to American Falls Reser			SED	14.94
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS		14.94

HUC#17040207

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2303	Blackfoot River	Blackfoot Dam to Wolverine Creek		QALT	NUT	SED	40.35
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		40.35

HUC#17040208

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2327	Portneuf River	Downey Canal return to Lava Hot Springs	BAC	QALT	NUT	SED	18.19
2328	Portneuf River	Chesterfield Reservoir to Downey Canal return	BAC	QALT	NUT	SED	13.38
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		31.57

HUC#17040210

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2438	Cassia Creek	Connor Creek to Raft River		HALT		SED	12.74
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		12.74

HUC#17040212

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2372	Lower Salmon Falls Reservoir			DO QALT		SED	.00

Idaho Division of Environmental Quality 1998 303(d) List: Threatened Waters

2373	Upper Salmon Falls Reservoir			DO QALT		SED	.00
2384	Billingsley Creek	Headwaters to Snake River		DO QALT	NH3	SED	7.57
2405	Alpheus Creek	Headwaters to Snake River		DO	NUT	SED	.35
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		7.92

HUC#17040213

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
2466	Shoshone Creek	Magic Hot Springs to Nevada	BAC	DO		SED TEMP	4.71
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS			4.71

HUC#17040217

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
2145	Wet Creek	Coal Creek to Little Lost River		QALT		SED TEMP	15.89
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS			15.89

HUC#17040219

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2482	Big Wood River	Glendale Diversion to T1NR18ES35	QALT		5.45
2483	Big Wood River	Trail Creek to Glendale Diversion	QALT		20.84
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS	26.29

HUC#17040220

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2532	Camas Creek	Headwaters to Macon Flat Bridge		SED	51.32
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS	51.32

HUC#17040221

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES

Idaho Division of Environmental Quality 1998 303(d) List: Threatened Waters

2511	Little Wood River	Richfield (town) to Big Wood River	BAC	DO QALT	NUT	SED	50.76
2512	Little Wood River	Silver Creek to Richfield (town)			NUT	SED	19.17
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		69.93

HUC#17050103

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2673	Jump Creek	Headwaters to Snake River		HALT			20.54
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		20.54

HUC#17050114

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2728	Boise River	Barber Diversion to Star				SED	25.27
2731	Indian Creek	New York Canal to Boise River		DO	NUT O/G	SED	16.62
2732	Indian Creek	Headwaters to New York Canal			NUT	SED	39.06
		NEW MILES	0.00		TOTAL MILES OF THREATENED STREAMS		80.95

HUC#17050124

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
2841	Crane Creek Reservoir			NUT	SED	.00
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS		.00

HUC#17060202

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
3099	Pahsimeroi River	Dowton Lane to Salmon River		NUT	SED	9.19
3100	Pahsimeroi River	Mahogany Creek to Dowton Lane		NUT	SED	39.51
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS		48.70

HUC#17060205

STREAM

Idaho Division of Environmental Quality 1998 303(d) List: Threatened Waters

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	MILES
2808	Bear Valley Creek	Headwaters to Wilderness Boundary		SED	29.23
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS	29.23

HUC#17060206

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2775	Monumental Creek	Headwaters to Fall Creek		SED	7.77
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS	7.77

HUC#17060208

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2940	Johnson Creek	Ice Hole Campgrnd to S Fk Salmon R		SED	2.55
2941	Johnson Creek	Halfway Creek to Ice Hole Campgrnd		SED	12.70
2959	Rice Creek	Headwaters to Salmon River, S.F.		UNKN	6.36
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS	21.61

HUC#17060306

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
3156	Cedar Creek	Leopold Creek to Potlatch River	CHS		5.17
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC DO QALT HALT	NUT O/G SED TEMP	28.44
		NEW MILES	0.00	TOTAL MILES OF THREATENED STREAMS	33.61

1998 303(d) LIST SUMMARY

TOTAL MILES OF THREATENED STREAM 668.9

2.3 WATER BODIES REMOVED FROM IDAHO'S 1996 303(d) LIST

These are water bodies that DEQ has determined meet their beneficial uses and as such are removed from the 1998 303(d) list. DEQ has relied on various sources of information, new or not previously available when these waters were originally included on the 1994/1996 303(d) list. These information/data were process through DEQs Water Body Assessment Guidance. Through this process these waters were found to support their beneficial uses and are not water quality limited. The list displays the hydrologic unit number, common water body name, boundaries, and number of miles removed.

Reference Section 2.0 for key to list headings.

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

HUC # 16010102

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2275	Preuss Creek	Headwaters to Thomas Fork	8.60
2277	Giraffe Creek	Headwaters to Wyoming Border	3.52
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM	12.12

HUC # 16010201

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2255	Bailey Creek	Headwaters to Bear River	6.15
2256	Eightmile Creek	USFS boundary to Bear River	14.64
2257	Pearl Creek	Headwaters to Bear River	3.10
2258	Stauffer Creek	Headwaters to Bear River	8.97
2259	Co-Op Creek	Headwaters to Stauffer Creek	3.67
2260	Georgetown Canyon	Headwaters to Bear River	14.76
2262	Montpelier Creek	Headwaters to Bear River	19.40
2266	Paris Creek	Headwaters to Bear River	11.62
2267	Bloomington Creek	Headwaters to refuge	12.89
2268	Saint Charles Creek	Davis Canyon to Refuge	10.42
2269	Little Creek	St. Charles Creek to Bear Lake	2.67
NUMER OF DE-LISTED SEGMENTS:	11	TOTAL MILES OF DE-LISTED STREAM	108.29

HUC # 16010202

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2237	Cub Creek	Headwaters to Utah Line	12.52
2244	Mink Creek	Headwaters to Bear River	12.97
2245	Cottonwood Creek	Headwaters to Bear River	19.54
2246	Williams Creek	Headwaters to Bear River	2.31
2247	Trout Creek	Headwaters to Bear River	11.34
NUMER OF DE-LISTED SEGMENTS:	5	TOTAL MILES OF DE-LISTED STREAM	58.68

HUC # 16010203

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2281	Beaver Creek	Headwaters to Utah Line	8.46
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	8.46

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

HUC # 16010204

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2290	Devil Creek	Headwaters to Malad River	4.37
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	4.37

HUC # 17010104

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3370	Snow Creek	Headwaters to Deep Creek	12.09
3373	Twentymile Creek	Headwaters to Deep Creek	10.09
3389	Boundary Creek	Gaging station to Canadian border	.39
3390	Boundary Creek	Headwaters to Gaging station	7.10
NUMER OF DE-LISTED SEGMENTS:	4	TOTAL MILES OF DE-LISTED STREAM	29.67

HUC # 17010105

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2021	Canuck Creek	Canadian border to MT line	6.19
3398	Deer Creek	Headwaters to Moyie River	10.71
3399	Meadow Creek	Headwaters to Moyie River	12.27
5069	East Fork Meadow Creek	Headwaters to Meadow Creek	2.80
5206	Wall Creek	Headwaters to Meadow Creek	3.31
NUMER OF DE-LISTED SEGMENTS:	5	TOTAL MILES OF DE-LISTED STREAM	35.28

HUC # 17010213

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3473	Lightning Creek	Quartz Creek to Clark Fork	18.42
3475	Spring Creek	Headwaters to Lightning Creek	6.85
3477	Wellington Creek	Headwaters to Falls	2.29
3478	Twin Creek	Headwaters to Clark Fork	4.84
5184	Clark Fork	Headwaters to Clark Fork	1.19
7474	Porcupine Creek	Headwaters to Lightning Creek	3.57
7475	Rattle Creek	Headwaters to Lightning Creek	4.91
NUMER OF DE-LISTED SEGMENTS:	7	TOTAL MILES OF DE-LISTED STREAM	42.07

HUC # 17010214

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

3437	Brickel Creek	Washington Line to Spirit Lake	5.56
3449	Pack River	HWY 95 to Pend Oreille Lake	19.37
3455	Grouse Creek	Headwaters to Pack River	20.35
3462	Trestle Creek	Headwaters to Pend Oreille Lake	8.94
3468	Gold Creek	Headwaters to Pend Oreille Lake	6.09
5135	North Fork Grouse Creek	Headwaters to Grouse Creek	6.87
NUMER OF DE-LISTED SEGMENTS:	6	TOTAL MILES OF DE-LISTED STREAM	67.18

HUC # 17010215

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3415	Middle Fork East River	Headwaters to Priest River	9.52
3419	Lamb Creek	Washington line to Priest Lake	8.89
3428	Tango Creek	Headwaters to Priest Lake	3.22
3432	Trapper Creek	Headwaters to Upper Priest Lake	7.74
NUMER OF DE-LISTED SEGMENTS:	4	TOTAL MILES OF DE-LISTED STREAM	29.37

HUC # 17010301

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3486	Bumblebee Creek	Headwaters to N Fk CdA River	4.34
3488	Laverne Creek	Headwaters to N Fk CdA River	4.44
3489	Leiberg Creek	Headwaters to N Fk CdA River	5.63
3490	Skookum Creek	Headwaters to N Fk CdA River	2.97
3495	Steamboat Creek	Headwaters to CdA River	2.45
3500	Prichard Creek	Headwaters to N Fk CdA River	5.32
3501	East Fork Eagle Creek	Headwaters to Prichard Creek	10.29
3504	Shoshone Creek	Headwaters to CdA River	4.89
3505	Downey Creek	Headwaters to CdA River	3.46
3507	Flat Creek	Headwaters to CdA River	6.65
3508	Tepee Creek	Headwaters to Big Elk Creek	12.29
3510	Trail Creek	Headwaters to Tepee Creek	6.12
5007	Barney Creek	Headwaters to N Fk CdA River	3.88
5008	Barton Gulch	Headwaters to Granite Gulch	1.67
5034	Calamity Creek	Headwaters to Jordan Creek	2.35
5042	Cinnamon Creek	Headwaters to CdA River	2.86
5115	Lost Fork	Headwaters to Jordan Creek	3.76

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

7500	Tiger Gulch	Headwaters to Prichard Creek	1.69
7502	Wesp Gulch	Headwaters to Prichard Creek	1.90
7503	Ophir Gulch	Headwaters to Prichard Creek	1.12
7505	Idaho Gulch	Headwaters to Prichard Creek	1.99
NUMER OF DE-LISTED SEGMENTS:	21	TOTAL MILES OF DE-LISTED STREAM	90.07

HUC # 17010302

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3525	Canyon Creek	Headwaters to S Fk CdA River	5.30
4005	Terror Gulch	Headwaters to S Fk Coeur d'Alene R	2.94
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM	8.24

HUC # 17010303

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3538	Carlin Creek	Headwaters to CdA Lake	5.20
3539	Turner Creek	Headwaters to CdA Lake	3.90
3542	Cedar Creek	Headwaters to Wolf Lodge Creek	6.29
3544	Fernan Creek	Headwaters to Fernan Lake	7.42
3545	Cougar Creek	Headwaters to CdA Lake	4.99
3548	Rockford Creek	Headwaters to Coeur d'Alene Lake	5.65
3549	Lake Creek	Headwaters to Coeur d'Alene Lake	3.72
7541	Marie Creek	Headwaters to Wolf Lodge Creek	7.69
NUMER OF DE-LISTED SEGMENTS:	8	TOTAL MILES OF DE-LISTED STREAM	44.86

HUC # 17010304

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3578	Benewah Creek	Headwaters to Chatcolet Lake	13.49
3584	John Creek	Headwaters to St. Maries River	5.31
3586	Beaver Creek	Headwaters to St. Maries River	5.98
3589	Tyson Creek	Headwaters to St. Maries River	3.70
3595	Merry Creek	Headwaters to Middle Fk St. Maries River	7.44
3596	Gold Center Creek	Headwaters to St. Maries River	3.93
3598	Bond Creek	Headwaters to St. Joe River	10.67
3600	Hugus Creek	Headwaters to St. Joe River	7.58
3602	Big Creek	Conf of M & W Fks Big Cr to St Joe	8.63

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3604	Marble Creek	Hobo Creek to St. Joe River	14.28
3608	Fishhook Creek	Outlaw & W Fk Fishhook to St Joe R	3.27
3613	Sisters Creek	Headwaters to St. Joe River	13.46
3615	Prospector Creek	Headwaters to St. Joe River	4.32
3617	Eagle Creek	Headwaters to St. Joe River	6.62
3618	Quartz Creek	Headwaters to St. Joe River	8.32
3620	Bruin Creek	Headwaters to St. Joe River	4.65
3621	Mosquito Creek	Headwaters to St. Joe River	6.62
3622	Gold Creek	Headwaters to St. Joe River	7.95
7604	Norton Creek	Headwaters to Bussel Creek	4.77
7605	Toles Creek	Headwaters to Marble Creek	3.45
7609	Daveggio Creek	Headwaters to Marble Creek	6.88
NUMER OF DE-LISTED SEGMENTS:	21	TOTAL MILES OF DE-LISTED STREAM	151.32

HUC # 17010305

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3557	Mokins Creek	Headwaters to Hayden Lake	4.61
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	4.61

HUC # 17040104

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2006	Antelope Creek	Headwaters to Snake River, South Fo	4.87
2019	McCoy Creek	Iowa Creek to Palisades Reservoir	9.39
6019	McCoy Creek	Headwaters to Iowa Creek	8.78
NUMER OF DE-LISTED SEGMENTS:	3	TOTAL MILES OF DE-LISTED STREAM	23.04

HUC # 17040105

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2227	Sage Creek	Headwaters to Crow Creek	9.14
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	9.14

HUC # 17040202

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2078	Henrys Fork	Buffalo River to Riverside Reach	15.37
2106	Henrys Lake		.00

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NUMER OF DE-LISTED SEGMENTS:	2		TOTAL MILES OF DE-LISTED STREAM	15.37

HUC # 17040204

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2114	South Fork Teton River	Forks to Henrys Fk, Snake R	22.53
2125	Badger Creek	R45ET6NS10 to First Trib.	3.83
2132	Teton Creek	Highway 33 to Teton River	5.03
NUMER OF DE-LISTED SEGMENTS:	3	TOTAL MILES OF DE-LISTED STREAM	31.39

HUC # 17040205

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2038	Willow Creek	Sellars Creek to Grays Lake Outlet	11.11
2041	Tex Creek	Indian Fork to Willow Creek	3.88
2043	Grays Lake Outlet	Falls R42ET35S3 to Willow Creek	31.60
2051	Sellars Creek	Headwaters to Willow Creek	2.81
2055	Hancock Creek	Headwaters to Willow Creek	5.31
NUMER OF DE-LISTED SEGMENTS:	5	TOTAL MILES OF DE-LISTED STREAM	54.71

HUC # 17040207

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2306	Wolverine Creek	Headwaters to Blackfoot River	4.42
2307	Rawlins Creek	Headwaters to Brush Creek	7.91
2316	Bacon Creek	Headwaters to Lanes Creek	3.99
2317	Timothy Creek	Headwaters to Diamond Creek	6.43
2318	Cabin Creek	Headwaters to Lanes Creek	3.27
2319	Kendall Creek	Headwaters to Diamond Creek	3.47
NUMER OF DE-LISTED SEGMENTS:	6	TOTAL MILES OF DE-LISTED STREAM	29.49

HUC # 17040208

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2332	Gibson Jack Creek	Headwaters to Portneuf River	4.32
2333	Mink Creek	Headwaters to Portneuf River	11.01
2335	Marsh Creek	Headwaters to Portneuf River	3.78
2338	Birch Creek	Headwaters to Marsh Creek	3.02
2339	Cherry Creek	Headwaters to Birch Creek	2.41

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2340	Dempsey Creek	Headwaters to Portneuf		12.60
2341	Pebble Creek	Headwaters to Portneuf		9.44
2343	Toponce Creek	Headwaters to Portneuf River		8.33
4007	Walker Creek	Headwaters to Marsh Creek		6.09
6335	Bell Marsh Creek	Headwaters to Marsh Creek		6.37
6336	Garden Creek	Headwaters to Garden Creek Gap		9.98
6338	Goodenough Creek	Headwaters to Marsh Creek		6.76
NUMER OF DE-LISTED SEGMENTS:	12		TOTAL MILES OF DE-LISTED STREAM	84.11

HUC # 17040209

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2366	East Fork Rock Creek	Headwaters to Rock Creek	5.94
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	5.94

HUC # 17040210

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2438	Cassia Creek	Headwaters to Raft River	11.41
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	11.41

HUC # 17040211

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2449	Trapper Creek	Headwaters to Oakley Reservoir	8.31
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	8.31

HUC # 17040212

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2399	Ellison Creek	Headwaters to Snake River	.27
2407	Vinyard Creek	Headwaters to Snake River	.44
2408	Dry Creek	Cold Spring Creek to Snake River	3.67
NUMER OF DE-LISTED SEGMENTS:	3	TOTAL MILES OF DE-LISTED STREAM	4.38

HUC # 17040213

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2459	Salmon Falls Creek	Salmon Falls Dam to Snake River	40.42
2465	House Creek	Headwaters to Cedar Creek Reservoir	20.68

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2467	Shoshone Creek	Big Creek to Magic Hot Springs		6.89
NUMER OF DE-LISTED SEGMENTS:	3		TOTAL MILES OF DE-LISTED STREAM	67.99

HUC # 17040215

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2206	Medicine Lodge Creek	Warm Creek to Small	7.97
2213	Warm Creek	Headwaters to Divide Creek	4.77
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM	12.74

HUC # 17040216

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2155	Birch Creek	Blue Dome to Reno Ditch	7.96
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	7.96

HUC # 17040217

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2143	Badger Creek	Headwaters to Little Lost River	10.48
2144	Deer Creek	Confluence of N & S Fks Deer Cr to Little Lost Riv	5.30
2145	Wet Creek	Headwaters to Little Lost River	6.62
2146	Dry Creek	Diversion to Wet Creek	17.78
2147	Dry Creek	Headwaters to Diversion	10.72
2148	Sawmill Creek	Headwaters to Little Lost River	8.39
NUMER OF DE-LISTED SEGMENTS:	6	TOTAL MILES OF DE-LISTED STREAM	59.29

HUC # 17040218

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2168	Antelope Creek	Headwaters to Big Lost River	16.60
2169	Cherry Creek	Headwaters to Antelope Creek	16.07
2181	Wild Horse Creek	Headwaters to Big Lost River	13.77
2183	Star Hope Creek	Headwaters to Big Lost River	16.36
2185	Muldoon Creek	Headwaters to Starhope Creek	9.27
NUMER OF DE-LISTED SEGMENTS:	5	TOTAL MILES OF DE-LISTED STREAM	72.07

HUC # 17040219

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES

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2483	Big Wood River	Headwaters to Glendale Diversion		32.22
2491	Croy Creek	Headwaters to Big Wood River		6.04
NUMER OF DE-LISTED SEGMENTS:	2		TOTAL MILES OF DE-LISTED STREAM	38.26

HUC # 17050102

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2550	Bruneau River	Nevada line to Hot Creek	68.51
2555	Wickahoney Creek	Headwaters to Big Jacks Creek	2.53
2558	Clover Creek	Headwaters to Bruneau River	.93
2559	Big Flat Creek	Flat Creek to Clover Creek	11.05
2560	Cherry Creek	Nevada line to Three Creek	10.75
2562	Deadwood Creek	Headwaters to Clover Creek	18.15
2563	Sheep Creek	Marys Creek to Bruneau River	22.38
2564	Sheep Creek	Nevada Line to Marys Creek	36.21
2565	Marys Creek	IR boundary to Sheep Creek	28.46
NUMER OF DE-LISTED SEGMENTS:	9	TOTAL MILES OF DE-LISTED STREAM		198.97

HUC # 17050103

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2674	Squaw Creek	Headwaters to Snake River	13.71
2679	Sinker Creek	Headwaters to Highway Bridge	8.25
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM		21.96

HUC # 17050104

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2628	Blue Creek	Headwaters to Blue Creek Res.	20.09
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM		20.09

HUC # 17050107

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
6641	Cabin Creek	Headwaters to Juniper Creek	9.47
6642	Corral Creek	Headwaters to Cabin Creek	8.33
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM		17.80

HUC # 17050108

STREAM

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WQLSEG	WATERBODY	BOUNDARIES	MILES
2650	Williams Creek	Headwaters to Jordan Creek	9.89
2654	Rock Creek	Triangle Res to N Fk Boulder Creek	10.65
2659	Flint Creek	Headwaters to Jordan Creek	6.61
NUMER OF DE-LISTED SEGMENTS:	3	TOTAL MILES OF DE-LISTED STREAM	27.15

HUC # 17050111

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2761	Middle Fork Boise River	Wilderness boundary to Boise River	39.38
2762	Roaring River	Headwaters to M Fk Boise River	10.75
5097	James Creek	Headwaters to M Fk Boise River	4.03
5114	Lost Creek	Headwaters to N Fk Boise River	5.00
5116	Lost Man Creek	Headwaters to M Fk Boise River	9.10
5143	Phifer Creek	Headwaters to M Fk Boise River	4.86
5191	Swanholm Creek	Headwaters to M Fk Boise River	4.86
NUMER OF DE-LISTED SEGMENTS:	7	TOTAL MILES OF DE-LISTED STREAM	77.98

HUC # 17050112

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2696	Robie Creek	Headwaters to Mores Creek	7.38
2743	Mores Creek	Headwaters to Lucky Peak Reservoir	34.60
2746	Grimes Creek	Headwaters to Mores Creek	40.59
5006	Bannock Creek	Headwaters to Mores Creek	5.71
5043	Clear Creek #1	Headwaters to Grimes Creek	5.24
5044	Clear Creek #3	Headwaters to Grimes Creek	8.27
5085	Granite Creek	Headwaters to Mores Creek	5.88
NUMER OF DE-LISTED SEGMENTS:	7	TOTAL MILES OF DE-LISTED STREAM	107.67

HUC # 17050113

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2576	Wood Creek	Headwaters to Willow Creek	6.77
2578	Smith Creek	Headwaters to S Fk Boise River	6.76
2588	Lime Creek	Headwaters to Anderson Ranch Reserv	11.21
2590	Trinity Creek	Headwaters to S Fk Boise River	10.74
2593	Shake Creek	Headwaters to S Fk Boise River	6.46

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5011	Bear Creek	Headwaters to Feather River	5.94
5064	Dog Creek	Headwaters to S Fk Boise River	5.42
5076	Feather River	Pinto Creek to South Fk Boise River	7.64
5086	Green Creek	Headwaters to S Fk Boise River	5.89
5089	Grouse Creek	Headwaters to S Fk Boise River	6.99
5120	Meadow Creek	Headwaters to Fall Creek	4.67
5157	Rock Creek	Headwaters to S Fk Boise River	8.74
NUMER OF DE-LISTED SEGMENTS:	12	TOTAL MILES OF DE-LISTED STREAM	87.23

HUC # 17050120

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2715	Deadwood River	Headwaters to Deadwood Reservoir	19.30
2721	Eightmile Creek	Headwaters to S Fk Payette River	12.36
5002	Alder Creek	Headwaters to S Fk Payette River	7.79
5009	Basin Creek	Headwaters to Deadwood Reservoir	5.14
5019	Big Pine Creek	Headwaters to S Fk Payette River	2.08
5133	Ninemile Creek	Headwaters to Deadwood River	5.70
5161	Scott Creek	Headwaters to Deadwood River	7.47
5186	South Fork Payette River	Headwaters to Payette River	18.71
5196	Trail Creek	Headwaters to Deadwood Reservoir	6.87
5214	Whitehawk Creek	Headwaters to Deadwood River	7.66
5215	Wilson Creek	Headwaters to Deadwood River	10.53
NUMER OF DE-LISTED SEGMENTS:	11	TOTAL MILES OF DE-LISTED STREAM	103.61

HUC # 17050121

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2703	Middle Fork Payette River	Bull Creek to South Fk Payette River	32.80
2704	Anderson Creek	Headwaters to M Fk Payette River	15.37
2705	Lightning Creek	Headwaters to M Fk Payette River	13.66
2707	Silver Creek	Headwaters to M Fk Payette River	11.75
5031	Bulldog Creek	Headwaters to Big Bulldog Creek	4.98
5162	Scriver Creek	Headwaters to M Fk Payette River	9.83
NUMER OF DE-LISTED SEGMENTS:	6	TOTAL MILES OF DE-LISTED STREAM	88.39

HUC # 17050122

STREAM

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WQLSEG	WATERBODY	BOUNDARIES	MILES
2698	Little Squaw Creek	Headwaters to Squaw Creek	19.72
2699	Shafer Creek	Headwaters to Payette River	14.78
2700	Harris Creek	Headwaters to Shafer Creek	9.56
5187	Squaw Creek	Headwaters to Boise NF Boundary	17.12
NUMER OF DE-LISTED SEGMENTS:	4	TOTAL MILES OF DE-LISTED STREAM	61.18

HUC # 17050123

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2891	Big Creek	Headwaters to N Fk Payette River	13.52
2892	Beaver Creek	Headwaters to N Fk Payette River	8.46
5035	Campbell Creek	Headwaters to Cascade Reservoir	2.89
5074	Fawn Creek	Headwaters to N Fk Payette River	6.85
5079	French Creek	Headwaters to Cascade Reservoir	3.58
5092	Hazard Creek	Headwaters to Cascade Reservoir	2.82
NUMER OF DE-LISTED SEGMENTS:	6	TOTAL MILES OF DE-LISTED STREAM	38.12

HUC # 17050124

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2835	Weiser River	Warm Spring Creek to Little Weiser River	42.10
2848	Pine Creek	Headwaters to Weiser River	16.13
2853	Middle Fork Weiser River	Headwaters to Cabin Creek	12.18
2854	Cottonwood Creek	Headwaters to Weiser River	11.58
NUMER OF DE-LISTED SEGMENTS:	4	TOTAL MILES OF DE-LISTED STREAM	81.99

HUC # 17050201

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2831	Jenkins Creek	Headwaters to Snake River	13.02
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	13.02

HUC # 17060101

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2912	Deep Creek	Wilderness Boundary to Snake River	4.65
6912	Deep Creek	Headwaters to Wilderness Boundary	3.56
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM	8.21

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HUC # 17060108

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3120	Palouse River	Meadow Creek to Washington line	28.78
3121	Palouse River	Headwaters to Meadow Creek	12.93
3125	Gold Creek	Headwaters to Palouse River	4.24
3127	Flat Creek	Headwaters to Palouse River	7.87
3129	Meadow Creek	Headwaters to Palouse River	11.99
3130	Strychnine Creek	Headwaters to Palouse River	7.32
3131	Little Sand Creek	Headwaters to Palouse River	5.26
3132	Big Sand Creek	Headwaters to Palouse River	7.44
3133	North Fork Palouse River	Headwaters to Palouse River	6.45
3135	Paradise Creek	Headwaters to Palouse River (Washin	12.62
5021	Blakes Fork	Headwaters to Meadow Creek	2.79
5023	Bonami Creek	Headwaters to Little Sand Creek, Cr	2.18
5067	Dry Fork	Headwaters to Strychnine Creek	2.18
5098	Jerome Creek	Headwaters to Palouse River	4.24
5118	Mannering Creek	Headwaters to EF Meadow Creek	4.50
5208	Wepah Creek	Headwaters to EF Meadow Creek	3.90
5220	East Fork Meadow Creek	Headwaters to Meadow Creek	6.81
NUMER OF DE-LISTED SEGMENTS:	17	TOTAL MILES OF DE-LISTED STREAM	131.50

HUC # 17060201

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3011	Salmon River	Headwaters to Hell Roaring Creek	21.19
3029	Squaw Creek	Forest boundary to Salmon River	5.52
3030	Squaw Creek	Headwaters to Forest Boundary	10.48
3031	Thompson Creek	Headwaters to Salmon River	11.16
3036	Yankee Fork	Headwaters to Jordan Creek	17.16
3040	Valley Creek	Stanley Lake Creek to Salmon River	6.09
3042	Stanley Lake Creek	Headwaters to Valley Creek	11.21
NUMER OF DE-LISTED SEGMENTS:	7	TOTAL MILES OF DE-LISTED STREAM	82.81

HUC # 17060202

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES

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3100	Pahsimeroi River	Headwaters to Dowton Lane		4.07
NUMER OF DE-LISTED SEGMENTS:	1		TOTAL MILES OF DE-LISTED STREAM	4.07

HUC # 17060203

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2977	Blackbird Creek	Headwaters to Panther Creek	2.71
2995	Carmen Creek	Freeman Creek to Salmon River	5.27
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM	7.98

HUC # 17060204

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3061	Kirtley Creek	BLM boundary to Lemhi River	7.74
3063	Geertson Creek	BLM boundary to ditch	9.67
3065	Bohannon Creek	BLM boundary to Lemhi River	9.07
3070	Sandy Creek	BLM boundary to Lemhi River	5.40
3072	Kenney Creek	BLM boundary to Lemhi River	4.61
3078	McDevitt Creek	Headwaters to BLM boundary	7.55
3084	Little Eightmile Creek	Forest Boundary to Lemhi River	2.71
3086	Big Eightmile Creek	Forest Boundary to Lemhi River	7.24
3090	Big Timber Creek	Forest Boundary to Lemhi River	8.37
3093	Eighteenmile Creek	BLM boundary to Lemhi River	11.90
3095	Hawley Creek	Forest Bnd to Eighteenmile Creek	1.21
NUMER OF DE-LISTED SEGMENTS:	11	TOTAL MILES OF DE-LISTED STREAM	75.47

HUC # 17060206

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2775	Monumental Creek	Headwaters to Big Creek	17.49
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	17.49

HUC # 17060208

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2929	Secesh River	Lake Cr. to Loon Cr.	12.60
2950	Sugar Creek	Headwaters to E Fk S Fk Salmon Rive	7.14
2958	Curtis Creek	Headwaters to S Fk Salmon River	7.60
NUMER OF DE-LISTED SEGMENTS:	3	TOTAL MILES OF DE-LISTED STREAM	27.34

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HUC # 17060210

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2864	Little Salmon River	Headwaters to Round Valley Creek	24.92
NUMER OF DE-LISTED SEGMENTS:	1	TOTAL MILES OF DE-LISTED STREAM	24.92

HUC # 17060302

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3262	O'Hara Creek	Headwaters to Selway River	3.30
5024	Boyd Creek	Headwaters to Selway River	5.00
5070	Elk City Creek	Headwaters to Selway River	3.57
5073	Falls Creek	Headwaters to Selway River	6.92
5081	Glover Creek	Headwaters to Selway River	5.71
5082	Goddard Creek	Headwaters to Selway River	8.29
5090	Hamby Fork	Headwaters to O'Hara Creek	8.05
5134	Nineteenmile Creek	Headwaters to Selway River	4.59
5152	Rackliff Creek	Headwaters to Selway River	6.01
5202	Twentythree Mile Creek	Headwaters to Selway River	3.70
5207	Wart Creek	Headwaters to O'Hara Creek	2.97
NUMER OF DE-LISTED SEGMENTS:	11	TOTAL MILES OF DE-LISTED STREAM	58.11

HUC # 17060303

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3249	Walton Creek	Headwaters to Lochsa River	6.43
3255	Crooked Fork	Headwaters to Lochsa River	22.71
3256	Brushy Fork	Headwaters to Crooked Fork	19.34
3257	Boulder Creek	Headwaters to Crooked Fork	6.51
5004	Badger Creek	Headwaters to Lochsa River	4.07
5036	Canyon Creek	Headwaters to Mystery Creek	4.35
5037	Canyon Creek	Mystery Creek to Lochsa River	5.77
5057	Deadman Creek	Conflu of E & W Fks to Snake River	2.18
5062	Doe Creek	Headwaters to Squaw Creek	7.04
5068	West Fork Deadman Creek	Headwaters to Deadman Creek	5.51
5080	Glade Creek	Headwaters to Lochsa River	6.32
5132	Mystery Creek	Headwaters to Canyon Creek	3.45

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5137	Nut Creek	Headwaters to Pete King Creek	3.07
5138	Papoose Creek	Headwaters to Lochsa River	1.88
5139	Parachute Creek	Headwaters to Papoose Creek	5.45
5142	Pete King Creek	Headwaters to Lochsa River	9.42
5147	Placer Creek	Headwaters to Pete King Creek	3.46
5151	Postoffice Creek	Headwaters to Lochsa River	7.66
5166	Shoot Creek	Headwaters to Spruce Creek	3.57
5167	Shotgun Creek	Headwaters to Crooked Fork	4.70
5183	South Fork Canyon Creek	Headwaters to Canyon Creek	4.07
5188	Squaw Creek	Headwaters to Lochsa River	8.02
5205	Walde Creek	Headwaters to Pete King Creek	4.19
5210	West Fork Pete King Creek	Headwaters to Pete King Creek	3.05
7183	Spruce Creek	Headwaters to Brushy Creek	3.51
NUMER OF DE-LISTED SEGMENTS:	25	TOTAL MILES OF DE-LISTED STREAM	155.73

HUC # 17060304

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3281	Clear Creek	Headwaters to M Fk Clearwater River	21.58
3282	Maggie Creek	Headwaters to M Fk Clearwater River	13.35
5027	Browns Spring Creek	Headwaters to Clear Creek	4.96
5110	Little Tinker Creek	Headwaters to M Fk Clearwater River	2.93
5113	Lodge Creek	Headwaters to M Fk Clearwater River	4.42
5145	Pine Knob Creek	Headwaters to Clear Creek	4.08
5180	Solo Creek	Headwaters to M Fk Clearwater	3.45
NUMER OF DE-LISTED SEGMENTS:	7	TOTAL MILES OF DE-LISTED STREAM	54.77

HUC # 17060305

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3301	Newsome Creek	Headwaters to S Fk Clearwater River	8.78
3303	American River	Headwaters to S Fk Clearwater River	21.59
3304	Little Elk Creek	Headwaters to Big Elk Creek	9.23
3306	Red River	Seigel Creek to S Fk Red River	27.17
3307	South Fork Red River	Headwaters to Red River	11.67
5005	Baldy Creek	Headwaters to Newsome Creek	6.13
5010	Baston Creek	Headwaters to Red River	2.23

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

5012	Bear Creek	Headwaters to Newsome Creek	4.3
5017	Big Elk Creek	Headwaters to Elk Creek	9.6
5025	Bridge Creek	Headwaters to Red River	4.0
5029	Buckhorn Creek	Headwaters to S Fk Clearwater River	2.7
5052	Crooked River	Headwaters to S Fk Clearwater River	11.6
5058	Deadwood Creek	Headwaters to Red River	3.6
5061	Ditch Creek	Headwaters to Red River	3.9
5072	Fall Creek	Headwaters to S Fk Clearwater River	4.8
5078	Flint Creek	Headwaters to E Fk American River	5.14
5087	Green Creek	Headwaters to S Fk Clearwater River	4.02
5091	Haysfork Creek	Headwaters to Newsome Creek	4.95
5103	Kirks Fork	Headwaters to American River	6.78
5105	Leggett Creek	Headwaters to S Fk Clearwater River	6.08
5106	Lick Creek	Headwaters to American River	3.71
5107	Lightning Creek	Headwaters to S Fk Clearwater River	4.86
5122	Meadow Creek	Headwaters to S Fk Clearwater River	15.22
5124	Middle Fork Red River	Headwaters to W Fk Red River	3.78
5128	Moose Butte Creek	Headwaters to Red River	6.75
5129	Moose Creek	Headwaters to SF Clearwater	3.53
5131	Mule Creek	Headwaters to Newsome Creek	5.26
5141	Peasley Creek	Headwaters to S Fk Clearwater River	9.03
5144	Pilot Creek	Headwaters to Newsome Creek	5.94
5153	Red Horse Creek	Headwaters to Red River	8.22
5155	Relief Creek	Headwaters to Crooked River	6.29
5159	Santiam Creek	Headwaters to S Fk Clearwater River	4.25
5160	Schooner Creek	Headwaters to S Fk Red River	2.27
5163	Sears Creek	Headwaters to S Fk Clearwater River	4.32
5168	Siegel Creek	Headwaters to Red River	6.70
5170	Sixmile Creek	Headwaters to Tenmile Creek	4.66
5179	Soda Creek	Headwaters to Red River	4.34
5197	Trail Creek	Headwaters to Red River	5.26
5198	Trapper Creek	Headwaters to Red River	6.57
5212	West Fork Red River	Headwaters to South Fork Red River	4.28
5213	Whiskey Creek	Headwaters to S Fk Clearwater River	4.20
NUMER OF DE-LISTED SEGMENTS:	41	TOTAL MILES OF DE-LISTED STREAM	277.94

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

HUC # 17060306

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3138	Fivemile Creek	Headwaters to Clearwater R.	6.93
3143	Lapwai Creek	Headwaters to Clearwater R.	15.34
3144	Sweetwater Creek	IR Boundary to Lapwai Creek	6.02
3147	Mission Creek	Headwaters to IR Boundary	4.64
3151	Little Potlatch Creek	Headwaters to IR Boundary	16.39
3154	Little Bear Creek	Headwaters to Big Bear Creek	9.48
3156	Cedar Creek	Headwaters to Potlatch River	4.50
3157	East Fork Potlatch River	Headwaters to Potlatch River	15.84
3158	Ruby Creek	Headwaters to Potlatch River	4.31
3160	Cottonwood Creek	Headwaters to Clearwater River	19.87
3163	Jacks Creek	Headwaters to Clearwater	9.65
3165	Little Canyon Creek	Headwaters to Big Canyon Creek	18.57
3170	Whiskey Creek	Headwaters to Orofino Creek	13.00
3174	Lolo Creek	Headwaters to Eldorado Creek	16.91
3175	Eldorado Creek	Headwaters to Lolo Creek	14.27
3177	Musselshell Creek	Headwaters to Lolo Creek	12.49
3178	Yoosa Creek	Headwaters to Lolo Creek	8.65
5039	Chamook Creek	Headwaters to Yoosa Creek	2.28
5065	Dollar Creek	Headwaters to El Dorado Cr	3.24
5075	Feather Creek	Headwaters to W Fk Potlatch River	5.25
5083	Gold Creek	Headwaters to Musselshell Creek	3.83
5148	Porcupine Creek	Headwaters to Potlatch River	2.54
5194	Tom Taha Creek	Headwaters to Clearwater R.	8.86
5211	West Fork Potlatch River	Headwaters to Potlatch River	3.95
5216	Yakus Creek	Headwaters to Lolo Creek	3.59
7180	Willow Creek	Headwaters to Lawyer Creek	7.90
7181	Lawyer Creek	IR Boundary to Clearwater River	34.65
7182	Camp Creek	Headwaters to Yoosa Creek	4.17
NUMER OF DE-LISTED SEGMENTS:	28	TOTAL MILES OF DE-LISTED STREAM	277.12

HUC # 17060308

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES

Idaho Division of Environmental Quality: Segments Removed from 1996 303(d) List

5001	Adair Creek	Headwaters to Little NF Clearwater	4.22
5158	Rutledge Creek	Headwaters to Little NF Clearwater	4.42
NUMER OF DE-LISTED SEGMENTS:	2	TOTAL MILES OF DE-LISTED STREAM	8.64

SUMMARY OF DELISTED SEGMENTS

TOTAL NUMBER OF SEGMENTS REMOVED FROM 1996 303(d) LIST:	390
TOTAL MILES OF STREAM SUPPORTING BENEFICIAL USES REMOVED FROM 1996 303(d) LIST: (NOTE: THIS DOES NOT INCLUDE MILAGE REMOVED DUE TO BOUNDARY CHANGES)	3,387.45

2.4 WATER BODIES WITH BOUNDARY CHANGES

These are water bodies that have been surveyed and the data processed through DEQs Water Body Assessment Guidance. When a particular water body was found to exhibit conditions that supported their beneficial uses as well as exhibit conditions that did not support their uses, boundary changes were made at major physical geographic features, if these were reasonable explanations for the difference. Those portions that were deemed to support their uses are removed, while those that did not support their uses remain on the 303(d) list. The boundary change lists the water quality segment number, those portions removed from the 303(d) list, the old boundary, the new boundary, and the mileage removed from the 303(d) list. This list is a subset of the De-list.

Reference Section 2.0 for key to list headings.

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

HUC # 16010102					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2275	Preuss Creek	Headwaters to Thomas Fork	Forest Service boundary to Thomas Fork	Pollutants remain the same	8.60
Number of segments with boundary changes		1		Total miles of delisted stream segments	8.60

HUC # 16010201					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2257	Pearl Creek	Headwaters to Bear River	N Fk Pearl Cr to Bear River	Pollutants remain the same	3.10
2259	Co-Op Creek	Headwaters to Stauffer Creek	USFS boundary to Stauffer Creek	Pollutants remain the same	3.67
2268	Saint Charles Creek	Headwaters to Refuge	Lower IDL boundary to Refuge	Pollutants remain the same	10.42
Number of segments with boundary changes		3		Total miles of delisted stream segments	17.19

HUC # 16010202					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2237	Cub Creek	Headwaters to Utah Line	Sugar Creek to Utah line	Pollutants remain the same	12.52
2245	Cottonwood Creek	Headwaters to Bear River	Trib 6.4 km upstream to Bear River	Pollutants remain the same	19.54
2246	Williams Creek	Headwaters to Bear River	Right Fk Williams Cr to Bear River	Pollutants remain the same	2.31
Number of segments with boundary changes		3		Total miles of delisted stream segments	34.37

HUC # 16010204					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2290	Devil Creek	Headwaters to Malad River	Devil Creek Reservoir to Malad River	Pollutants remain the same	4.37
Number of segments with boundary changes		1		Total miles of delisted stream segments	4.37

HUC # 17010214					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
5135	North Fork Grouse Creek	Headwaters to Grouse Creek	BRC Creek to Grouse Creek	Pollutants remain the same	6.87
Number of segments with boundary changes		1		Total miles of delisted stream segments	6.87

HUC # 17010215					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3415	Middle Fork East River	Headwaters to Priest River	North Fk East River to Priest River	Pollutants remain the same	9.52
Number of segments with boundary changes		1		Total miles of delisted stream segments	9.52

HUC # 17010301					
WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3495	Steamboat Creek	Headwaters to CdA River	Confluence of Barrymore & Steamboat to	Pollutants remain the same	2.45

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

			CdA River		
3500	Prichard Creek	Headwaters to CdA River	Barton Gulch to CdA River	Pollutants remain the same	5.32
3504	Shoshone Creek	Headwaters to CdA River	Sentinel Creek to CdA River	Pollutants remain the same	4.89
3508	Tepee Creek	Headwaters to CdA River	Headwaters to Big Elk Creek	Pollutants remain the same	12.29
Number of segments with boundary changes		4		Total miles of delisted stream segments	24.95

HUC # 17010302

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3525	Canyon Creek	Headwaters to S Fk CdA River	Gorge Gulch to South Fk CdA River	Pollutants remain the same	5.30
Number of segments with boundary changes		1		Total miles of delisted stream segments	5.30

HUC # 17010303

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3545	Cougar Creek	Headwaters to CdA Lake	North Fk Cougar Creek to CdA Lake	Pollutants remain the same	4.99
3549	Lake Creek	Headwaters to Coeur d'Alene Lake	House Creek to Cda Lake	Pollutants remain the same	3.72
7541	Marie Creek	Headwaters to Wolf Lodge Creek	Searchlight Creek to Wolf Lodge Creek	Pollutants remain the same	7.69
Number of segments with boundary changes		3		Total miles of delisted stream segments	16.40

HUC # 17010304

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3584	John Creek	Headwaters to St. Maries River	Unnamed trib 7.5 km upstream to St. Maries River	Pollutants remain the same	5.31
3589	Tyson Creek	Headwaters to St. Maries River	North Fk Tyson Creek to St. Maries River	Pollutants remain the same	3.70
3596	Gold Center Creek	Headwaters to St. Maries River	Windy Creek to Middle Fk St. Maries River	Pollutants remain the same	3.93
3608	Fishhook Creek	Outlaw & W Fk Fishhook to St Joe R	Lick Creek to St. Joe River	Pollutants remain the same	3.27
3622	Gold Creek	Headwaters to St. Joe River	East Fk Gold Creek to St. Joe River	Pollutants remain the same	7.95
Number of segments with boundary changes		5		Total miles of delisted stream segments	24.16

HUC # 17040104

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2006	Antelope Creek	Headwaters to Snake River, South Fo	State land bnd to S Fk Snake River	Pollutants remain the same	4.87
Number of segments with boundary changes		1		Total miles of delisted stream segments	4.87

HUC # 17040204

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2125	Badger Creek	R45ET6NS10 to First Trib.	Highway 32 to Teton River	Pollutants remain the same	3.83
Number of segments with boundary changes		1		Total miles of delisted stream segments	3.83

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

HUC # 17040205

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2041	Tex Creek	Headwaters to Willow Creek	Headwaters to Indian Fork	Pollutants remain the same	3.88
2051	Sellars Creek	Headwaters to Willow Creek	Confluence of South Fk Sellars to Willow Creek	Pollutants remain the same	2.81
Number of segments with boundary changes		2		Total miles of delisted stream segments	6.69

HUC # 17040207

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2306	Wolverine Creek	Headwaters to Blackfoot River	Wolverine to Blackfoot River	Pollutants remain the same	4.42
2316	Bacon Creek	Headwaters to Diamond Creek	Forest Service boundary to Lanes Creek	Pollutants remain the same	3.99
Number of segments with boundary changes		2		Total miles of delisted stream segments	8.41

HUC # 17040208

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2335	Marsh Creek	Headwaters to Portneuf River	Calvin Road to Portneur River	Pollutants remain the same	3.78
2338	Birch Creek	Headwaters to Marsh Creek	Birch Creek Road to Marsh Creek	Pollutants remain the same	3.02
2339	Cherry Creek	Headwaters to Birch Creek	Forest Service boundary to Birch Creek	Pollutants remain the same	2.41
Number of segments with boundary changes		3		Total miles of delisted stream segments	9.21

HUC # 17040209

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2366	East Fork Rock Creek	Headwaters to Rock Creek	Bench Ditch to Rock Creek	Pollutants remain the same	5.94
Number of segments with boundary changes		1		Total miles of delisted stream segments	5.94

HUC # 17040210

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2438	Cassia Creek	Headwaters to Raft River	Connor Creek to Raft River	Pollutants remain the same	11.41
Number of segments with boundary changes		1		Total miles of delisted stream segments	11.41

HUC # 17040211

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2449	Trapper Creek	Headwaters to Oakley Reservoir	Ibex Hollow to Lower Goose Creek Reservoir	Pollutants remain the same	8.31
Number of segments with boundary changes		1		Total miles of delisted stream segments	8.31

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

HUC # 17040212

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2408	Dry Creek	Medley Creek to Snake River	West Fk Dry Creek to Murtaugh Lake	Pollutants remain the same	3.67
Number of segments with boundary changes		1		Total miles of delisted stream segments	3.67

HUC # 17040213

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2459	Salmon Falls Creek	Salmon Falls Dam to Snake River	Bluegill Lake to Snake River	Pollutants remain the same	40.42
Number of segments with boundary changes		1		Total miles of delisted stream segments	40.42

HUC # 17040215

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2206	Medicine Lodge Creek	Warm Creek to Small	Spring Hollow Creek to Small (town)	Pollutants remain the same	7.97
Number of segments with boundary changes		1		Total miles of delisted stream segments	7.97

HUC # 17040217

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2145	Wet Creek	Headwaters to Little Lost River	Coal Creek to Little Lost River	Pollutants remain the same	6.62
2148	Sawmill Creek	Headwaters to Little Lost River	Mill Creek to Little Lost River	Pollutants remain the same	8.39
Number of segments with boundary changes		2		Total miles of delisted stream segments	15.01

HUC # 17040218

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2168	Antelope Creek	Headwaters to Big Lost River	Spring Creek to Big Lost River	Pollutants remain the same	16.60
Number of segments with boundary changes		1		Total miles of delisted stream segments	16.60

HUC # 17040219

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2483	Big Wood River	Headwaters to Glendale Diversion	Trail Creek to Glendale Diversion	Pollutants remain the same	32.22
2491	Croy Creek	Headwaters to Big Wood River	Elk Creek to Big Wood River	Pollutants remain the same	6.04
Number of segments with boundary changes		2		Total miles of delisted stream segments	38.26

HUC # 17050102

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2555	Wickahoney Creek	Headwaters to Big Jacks Creek	2.5 miles below headwaters to Big Jacks Creek	Pollutants remain the same	2.53
2558	Clover Creek	Headwaters to Bruneau River	71 Draw to Bruneau River	Pollutants remain the same	.93

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

Number of segments with boundary changes	2			Total miles of delisted stream segments	3.46

HUC # 17050103

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2674	Squaw Creek	Headwaters to Snake River	Unnamed trib 3.9 km upstream to Snake River	Pollutants remain the same	13.71
2679	Sinker Creek	Headwaters to Highway Bridge	Diamond Creek to Snake River	Pollutants remain the same	8.25
Number of segments with boundary changes		2		Total miles of delisted stream segments	21.96

HUC # 17050113

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2578	Smith Creek	Headwaters to S Fk Boise River	Tiger Creek to South Fk Boise River	Pollutants remain the same	6.76
Number of segments with boundary changes		1		Total miles of delisted stream segments	6.76

HUC # 17050120

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
5186	South Fork Payette River	Headwaters to Payette River	Wilderness bnd to Payette River	Pollutants remain the same	18.71
Number of segments with boundary changes		1		Total miles of delisted stream segments	18.71

HUC # 17050121

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2703	Middle Fork Payette River	Headwaters to S Fk Payette River	Big Bulldog Creek to South Fk Payette River	Pollutants remain the same	32.80
Number of segments with boundary changes		1		Total miles of delisted stream segments	32.80

HUC # 17050123

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2891	Big Creek	Headwaters to N Fk Payette River	Horsethief Creek to North Fk Payette River	Pollutants remain the same	13.52
Number of segments with boundary changes		1		Total miles of delisted stream segments	13.52

HUC # 17050124

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2835	Weiser River	Headwaters to Little Weiser River	West Fk Weiser River to Little Weiser River	Pollutants remain the same	42.10
Number of segments with boundary changes		1		Total miles of delisted stream segments	42.10

HUC # 17060101

STREAM

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	MILES
2912	Deep Creek	Wilderness Boundary to Snake River	Red Ledge Mine to Snake River	Pollutants remain the same	4.65
Number of segments with boundary changes		1		Total miles of delisted stream segments	4.65

HUC # 17060108

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3125	Gold Creek	Headwaters to Palouse River	Waterhole Creek to Palouse River	Pollutants remain the same	4.24
Number of segments with boundary changes		1		Total miles of delisted stream segments	4.24

HUC # 17060201

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3031	Thompson Creek	Headwaters to Salmon River	Scheelite Jim mill site to Salmon River	Pollutants remain the same	11.16
3036	Yankee Fork	Headwaters to Jordan Creek	Fourth of July Creek to Jordan Creek	Pollutants remain the same	17.16
Number of segments with boundary changes		2		Total miles of delisted stream segments	28.32

HUC # 17060202

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3100	Pahsimeroi River	Headwaters to Dowton Lane	Mahogany Creek to Dowton Lane	Pollutants remain the same	4.07
Number of segments with boundary changes		1		Total miles of delisted stream segments	4.07

HUC # 17060203

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2977	Blackbird Creek	Headwaters to Panther Creek	Blackbird Creek Reservoir to Panther Creek	Pollutants remain the same	2.71
Number of segments with boundary changes		1		Total miles of delisted stream segments	2.71

HUC # 17060204

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3095	Hawley Creek	Forest Bnd to Eighteenmile Creek	First Diversion to Eighteenmile Creek	Pollutants remain the same	1.21
Number of segments with boundary changes		1		Total miles of delisted stream segments	1.21

HUC # 17060206

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
2775	Monumental Creek	Headwaters to Big Creek	Headwaters to Fall Creek	Pollutants remain the same	17.49
Number of segments with boundary changes		1		Total miles of delisted stream segments	17.49

HUC # 17060302

STREAM

Idaho Division of Environmental Quality: Segments with Boundary Changes from 1996 303(d) List

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	MILES
3262	O'Hara Creek	Headwaters to Selway River	Hamby Fork to Selway River	Pollutants remain the same	3.30
Number of segments with boundary changes		1		Total miles of delisted stream segments	3.30

HUC # 17060305

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3301	Newsome Creek	Headwaters to S Fk Clearwater River	Beaver Creek to South Fk Clearwater River	Pollutants remain the same	8.78
Number of segments with boundary changes		1		Total miles of delisted stream segments	8.78

HUC # 17060306

WQLSEG	WATERBODY	OLD BOUNDARIES	NEW BOUNDARIES	POLLUTANTS	STREAM MILES
3143	Lapwai Creek	Headwaters to Clearwater R.	Unnamed trib 26.2 km upstream to Clearwater River	Pollutants remain the same	15.34
3156	Cedar Creek	Headwaters to Potlatch River	Leopold Creek to Potlatch River	Pollutants remain the same	4.50
3157	East Fork Potlatch River	Headwaters to Potlatch River	Ruby Creek to Potlatch River	Pollutants remain the same	15.84
3158	Ruby Creek	Headwaters to Potlatch River	Unnamed trib 3.4 km upstream to East Fk Potlatch R	Pollutants remain the same	4.31
5211	West Fork Potlatch River	Headwaters to Potlatch River	Cougar Creek to Potlatch River	Pollutants remain the same	3.95
5216	Yakus Creek	Headwaters to Lolo Creek	Molly Creek to Lolo Creek	Pollutants remain the same	3.59
Number of segments with boundary changes		6		Total miles of delisted stream segments	47.53

SUMMARY OF SEGMENTS WITH BOUNDARY CHANGES:

TOTAL NUMBER OF SEGMENTS WITH BOUNDARY CHANGES: 68

MILES OF STREAM SUPPORTING BENEFICIAL USES REMOVED FROM 1996 303(d) LIST DUE TO A BOUNDARY CHANGE: 593.94

(NOTE: THIS DOES NOT INCLUDE MILAGE REMOVED DUE TO ENTIRE SEGMENT FULLY SUPPORTING BENEFICIAL USES)

2.5 WATER BODIES SURVEYED AND ASSESSED AND FOUND TO BE FULL SUPPORT (NON 303(d))

These are water bodies that were never on a 303(d) list nor are they on Idaho's 1998 303(d) list. They were surveyed by DEQ between 1993 and 1996. Data collected from these water bodies were processed through DEQ's Water Body Assessment Guidance. These water bodies were found to support their beneficial uses. They are displayed as sites on water bodies with no specific upstream or downstream boundaries (i.e. headwaters to Snake River). The list displays common water body name, hydrologic unit number, BURP site identification number, water body status, MBI, RIBI, ABI, and HI scores, as well as site rational.

Reference Section 2.0 for key to list headings.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

HUC 16010201

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Emigration Creek	96SEIROA55	FS	6.64			105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fish Haven Crk	94SEIRO029	FS	6.13			90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
North Creek (U)	94SEIRO038	FS	6.63			90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Skinner Crk (L)	94SEIRO043	FS	4.26			49	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Skinner Crk (U)	94SEIRO042	FS	6.60			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 16010202

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Birch Creek	96SEIROA34	FS	5.06			115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Carter Creek	96SEIROA33	FS	5.36			75	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Maple Crk (U)	95SEIRO062	FS	5.04			105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Strawberry Crk (up)	96SEIROA30	FS	4.58			88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sugar Creek	96SEIROA32	FS	6.25			112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Worm Crk (upper)	96SEIROA28	FS	5.18			93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 16010203

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Logan River	95SEIRO060	FS	3.99			118	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17010104

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
CALLAHAN CREEK	94NIRO0056	FS	4.96			74	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
LONG CANYON CREEK	94NIRO0029	FS	3.54			86	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
MISSION CREEK	94NIRO0035	FS	4.82			88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
MYRTLE CREEK	94NIRO0032	FS	3.51			85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
PARKER CREEK	94NIRO0030	FS	4.03			82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
RUBY CREEK	94NIRO0037	FS	4.56			75	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
SMITH CREEK	94NIRO0036	FS	4.02			72	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17010105

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
PLACER CREEK	94NIRO0011	FS	5.26			95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17010213

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
MOSQUITO CREEK	95NIRO0A53	FS	4.90			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17010214

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
LITTLE SAND CREEK	94NIRO0006	FS	4.76			69	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
LITTLE SAND CREEK (U)	94NIRO0005	FS	4.61			101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
NORTH GOLD CREEK	94NIRO0014	FS	4.43			82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
PACK RIVER U	95NIRO0A51	FS	4.15			105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
PACK RIVER U	94NIRO0008	FS	4.48			64	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
STRONG CREEK	94NIRO0028	FS	3.99	NI		88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
WEST GOLD CREEK	94NIRO0016	FS	4.43	NI		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

HUC 17010215

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
BIG CREEK (L)	95NIRO0A38	FS	3.90			92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
BIG CREEK (U)	95NIRO0A39	FS	3.91	NV		71	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
CARIBOU CREEK (L)	95NIRO0A15	FS	4.40			88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
CARIBOU CREEK (U)	95NIRO0A16	FS	5.32			108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
GRANITE CREEK U	95NIRO0053	FS	4.54	NV		88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
HUGHES FORK (L)	95NIRO0051	FS	4.86			82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
HUGHES FORK (U)	95NIRO0050	FS	4.08			89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
HUNT CREEK (L)	95NIRO0B23	FS	4.74			89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
HUNT CREEK (U)	95NIRO0B22	FS	4.07			104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
INDIAN CREEK	95NIRO0B51	FS	4.87			108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
KEOKEE CREEK	95NIRO0A34	FS	4.03			95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

UPPER PRIEST RIVER (L)	94NIRO0021	FS	4.77		85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
UPPER PRIEST RIVER(U)	94NIRO0022	FS	4.59		78	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17010302

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
CANYON CREEK (U)	96NIRO0A33	FS	5.19			113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
CANYON CREEK U	94NIRO0042	FS	4.70			64	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
CDA RIVER, SF (U)	94NIRO0043	FS	4.92			91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
PINE CREEK (U)	96NIRO0B31	FS	3.61			63	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17010304

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
ALPINE CREEK (L)	96NIRO0A53	FS	4.49			122	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
ALPINE CREEK (U)	95NIRO0A26	FS	3.98			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
CHARLIE CREEK,EF L	95NIRO0B07	FS	3.66			73	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
CHARLIE CREEK,EF U	95NIRO0B02	FS				104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

COPPER CREEK (L)	94NIRO0054	FS	4.52		89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
COPPER CREEK (U)	94NIRO0055	FS	4.83		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
FLY CREEK (L)	94NIRO0044	FS	4.38		95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
FLY CREEK (U)	94NIRO0045	FS	5.55		94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
ST JOE RIVER (L)	94NIRO0050	FS	4.28		87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
ST JOE RIVER (U)	94NIRO0051	FS	5.48	NI	87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040104

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Barnes Crk (lower)	94SEIRO023	FS	4.01			95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Barnes Crk (upper)	94SEIRO022	FS	5.97			91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Elk Creek	96EIROZ124	FS	4.81			92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Booth Canyon Creek	96EIROZ026	FS	2.67			94	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Clear Creek	94SEIRO024	FS	5.04			75	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Deer Creek	96EIROY007	FS	4.66	97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Elk Creek, W Fork	96EIROY025	FS	4.30	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek	96EIROY032	FS	5.10	85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek, S Fork	96EIROY018	FS	4.32	87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek, S Fork	96EIROY019	FS	3.51	92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Gibson Creek	96EIROY024	FS	4.02	84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Gibson Creek	96EIROY020	FS	4.09	105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Indian Creek	96EIROY010	FS	4.90	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Indian Creek	96EIROY008	FS	3.92	91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Iowa Creek (lower)	94SEIRO025	FS	4.37	55	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jensen Creek	94SEIRO026	FS	5.03	90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mike Spencer Canyon Creek	96EIROY029	FS	3.00	86	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Mike Spencer Canyon Creek	96EIROZ019	FS	4.73		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Palisades Creek	96EIROZ125	FS	4.95		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pine Creek	96EIROY026	FS	3.86	NI	73	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pine Creek	96EIROZ020	FS	4.63		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pine Creek	96EIROZ021	FS	4.51		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pine Creek, North Fork	96EIROZ122	FS	4.49		76	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rainey Creek	96EIROZ123	FS	4.96		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rainey Creek, N. Fork	96EIROZ022	FS	4.88		82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Table Rock Canyon Creek	96EIROZ036	FS	4.76		70	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tie Canyon Creek	96EIROY027	FS	5.14		102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
West Pine Creek	96EIROY028	FS	5.72	NI	74	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Yeaman Creek	96EIROY006	FS	4.37		102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

HUC 17040105

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Crow Creek (lower)	96SEIROA46	FS	4.92			105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crow Creek (upper)	96SEIROA47	FS	3.03	NV		95	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Deer Creek	96SEIROA58	FS	4.59			69	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jacknife Creek	96SEIROA40	FS	5.14			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Squaw Creek	96SEIROA39	FS	4.42			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Stump Creek (lower)	96SEIROA45	FS	3.95			73	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Stump Crk (upper)	96SEIROA44	FS	5.24			115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tincup Creek	96SEIROA38	FS	4.92			93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tygee Crk (lower)	96SEIROA61	FS	4.05			79	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tygee Crk (upper)	96SEIROA60	FS	3.72			61	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040201

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Jesse Creek	94EIRO0003	FS	4.63		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jesse Creek	94EIRO0004	FS	3.65	NI	73	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Reas Pass Creek	96EIROY040	FS	2.80	NV	101	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Robinson Creek	96EIROY055	FS	4.88		85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rock Creek	96EIROY053	FS	5.04		95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rock Creek	96EIROY052	FS	5.83		96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sawtell Creek	96EIROZ116	FS	4.21		100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Snow Creek	96EIROY046	FS	6.17		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Targhee Creek	94EIRO0006	FS	5.36		95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
TargheeCreek	94EIRO0007	FS	4.50		71	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Thirsty Creek	96EIROZ120	FS	2.60	NI	77	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Twin Creek	96EIROY035	FS	4.41		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Twin Creek	96EIROY034	FS	5.35		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tyler Creek	96EIROZ117	FS	4.53		110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Willow Creek	96EIROY170	FS	5.17		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Yale Creek	96EIROY041	FS	4.48		76	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Yale Creek	96EIROY169	FS	4.81		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Yale Creek	96EIROY168	FS	3.88		83	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Yale Creek	96EIROY042	FS	4.06		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040203

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Conant Creek	96EIROZ127	FS	4.54			100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Squirrel Creek	96EIROZ126	FS	4.57			98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040204

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Bitch Creek	96EIROZ130	FS	4.44			93	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Bitch Creek	95EIRO0A99	FS	4.51	NI	68	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bitch Creek	95EIRO0A98	FS	3.10	NI	80	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Bitch Creek	96EIROZ131	FS	4.19		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Canyon Creek (Warm Creek to mouth)	95EIROA117	FS	4.85	NI	85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Darby Creek (Wyoming line to	95EIRO0B52	FS	4.84		104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Drake Creek	96EIROZ017	FS	4.94		110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hillman Creek	96EIROZ034	FS	4.00		89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Pine Creek	96EIROZ025	FS	4.68		101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mahogany Creek	96EIROZ121	FS	5.40		95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mike Harris Creek	96EIROZ029	FS	4.37		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Milk Creek	96EIROZ031	FS	4.88		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Murphy Creek	96EIROZ027	FS	4.84		109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

North Twin Creek	96EIROZ023	FS	5.28			107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Packsaddle Creek, N Fork	96EIROZ032	FS	5.11			112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Patterson Creek	96EIROZ018	FS	3.52			104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pole Canyon Creek	96EIROZ028	FS	3.64			91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sweet Hollow Creek	96EIROZ030	FS	2.72			95	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.

HUC 17040205

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Gravel Creek	96SEIROA37	FS	5.04			126	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Lava Creek, West Fork	96EIROY134	FS	3.62			71	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sellars Creek, S. Fork	96EIROZ002	FS	4.26			91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sellars Creek, S. Fork	95EIRO0B17	FS	3.58	NI		77	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040206

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Midnight Creek	96SEIROA09	FS	4.22			94	No major criteria exceedence documented. Macroinvertebrate data does not

indicate any biological imparement.

HUC 17040207

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Horse Creek	96SEIROA25	FS	3.73			58	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Johnson Crk (lower)	96SEIROA49	FS	3.10			89	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Johnson Crk (upper)	96SEIROA48	FS	3.64			98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Timber Creek	96SEIROA42	FS	4.76			114	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040208

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
City Crk (lower)	96SEIROA11	FS	3.26			90	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
City Crk (upper)	96SEIROA05	FS	5.22			97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Harkness Crk	94SEIRO049	FS	4.72	NI		76	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jackson Crk (lower)	96SEIROA07	FS	4.34			69	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jackson Crk (upper)	96SEIROA06	FS	4.69			120	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Mill Creek	94SEIRO046	FS	5.22			96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mink Crk WF	94SEIRO004	FS	4.59			93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Robber's Roost Creek	94SEIRO050	FS	6.06	NI		78	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040209

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Land Creek	94SCIRO026	FS	3.56			96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Marsh Creek	93SCIRO38	FS	4.68			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040210

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Clyde Creek	94SCIRO030	FS	4.33			93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Connor Creek	94SCIRO004	FS	4.53			96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cottonwood Creek	94SCIRO005	FS	4.95	NI		74	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cottonwood Creek	96SCIROB45	FS	5.07			86	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cross Creek	94SCIRO034	FS	4.46			85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Edwards Creek	94SCIRO029	FS	3.73			77	No major criteria exceedence documented. Macroinvertebrate data indicate biological imparement.
Lake Fork Creek	96SCIROA25	FS	3.31	NI		73	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Lake Fork Creek	96SCIROA26	FS	3.12	NI		82	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.

HUC 17040211

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Badger Creek	94SCIRO037	FS	3.53	NI		69	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Cottonwood Creek	94SCIRO022	FS	4.34			90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek	96SCIROB15	FS	4.49			101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek	96SCIROB14	FS	4.16			104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mill Creek	96SCIROB38	FS	4.28			101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Spring Creek	96SCIROB70	FS	2.58	NV		87	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.

HUC 17040212

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Dry Creek, EF	96SCIROA47	FS	4.69			110	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
East Fork Dry Creek	96SCIROB30	FS	5.76	NI	133	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fifth Fk. Rock Creek	95SCIROB36	FS	3.53		45	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fifth Fork Rock Creek	94SCIRO040	FS	3.52		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fourth Fk Rock Cr.	94SCIRO015	FS	4.79		70	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fourth Fk. Rock Creek	93SCIRO34	FS	4.76		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Harrington Fork	96SCIROB05	FS	3.08	NI	93	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Harrington Fork	94SCIRO014	FS	4.17		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Creek	94SCIRO012	FS	4.42		85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Middle Fork Dry Creek	96SCIROB29	FS	4.87		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
North Cottonwood Creek	94SCIRO009	FS	4.73		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
North Cottonwood Creek	96SCIROA03	FS	4.44		65	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rock Creek	95SCIROA31	FS	5.39		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Rock Creek	94SCIRO039	FS	4.78		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rock Creek	95SCIROB43	FS	4.94		95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Swanty Creek	96SCIROB04	FS	4.25		117	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Third Fork Rock Creek	93SCIRO41	FS	3.66		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Third Fork Rock Creek	96SCIROA01	FS	4.41		88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Third Fork Rock Creek	96SCIROB01	FS	4.33		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040214

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Bear Gulch Creek, E Fork	96EIROZ049	FS	5.92			93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Castle Creek	96EIROZ042	FS	4.61			88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Corral Creek	96EIROZ062	FS	2.82			91	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Cottonwood Creek	96EIROZ053	FS	4.94			92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cottonwood Creek, East Fork	96EIROZ066	FS	4.90			97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Cottonwood Creek, West Fork	96EIROZ065	FS	4.67	71	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Disaster Creek	96EIROZ047	FS	5.23	97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Ditch Creek	96EIROZ072	FS	4.40	49	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
East Camas Creek	96EIROZ054	FS	4.99	102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Idaho Creek	96EIROZ071	FS	3.94	50	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jug Creek	96EIROZ045	FS	4.35	89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kay Creek	96EIROZ052	FS	4.19	94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kite Canyon Creek	96EIROZ057	FS	4.64	108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pass Creek	96EIROZ050	FS	4.01	81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pasture Creek	96EIROZ051	FS	4.55	93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pete Creek	96EIROZ043	FS	4.53	107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pleasant Valley Creek	96EIROZ059	FS	5.48	97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

School Section Creek	96EIROZ070	FS	3.38		92	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Steel Creek	96EIROZ048	FS	4.59		105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Stoddard Creek	96EIROZ055	FS	5.35		94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Stump Creek	96EIROZ046	FS	4.08		71	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
West Camas Creek	96EIROZ044	FS	4.30		110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
White Pine Canyon Creek	96EIROZ058	FS	4.35		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040215

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Warm Creek	95EIRO0B25	FS	3.44	NI		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Warm Creek	94EIRO0077	FS	4.48			79	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040217

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Bear Creek	96EIROY167	FS	4.82	NI		78	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deer Creek, North Fork	96EIROY157	FS	3.61	NI		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Deer Creek, South Fork	96EIROY156	FS	3.76	NI	81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Garfield Creek	96EIROY163	FS	3.74		74	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Horse Creek	96EIROY161	FS	4.02	NI	85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Horse Creek	96EIROY160	FS	4.72	NI	84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Lost River (headwaters to sink)	94EIRO0033	FS	4.46		62	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mill Creek	96EIROY166	FS	5.70	NI	86	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Squaw Creek	96EIROY165	FS	5.28	NI	95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Squaw Creek	96EIROY164	FS	5.23	NI	104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Warm Creek	96EIROY162	FS	5.41	NI	93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Williams Creek	96EIROY159	FS	4.22	NI	80	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040218

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Bear Canyon Creek	96EIROY075	FS	3.57			114	Data indicate a criteria exceedence or a beneficial use not fully supported

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Bear Creek	96EIROY064	FS	4.42	108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear Creek	96EIROY063	FS	5.09	85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear Creek	96EIROY138	FS	4.78	111	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear Creek, Middle Fork	96EIROY066	FS	5.15	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear Creek, Right Fork	96EIROY065	FS	3.84	99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bellas Canyon Creek	96EIROY071	FS	4.23	113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Fall Canyon	96EIROY155	FS	4.68	72	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Lost River, Left Hand North Fork	96EIROY145	FS	4.41	112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Lost River, Right Hand North Fork	96EIROY144	FS	4.76	99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Broad Canyon Creek	96EIROY070	FS	4.38	92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Charcoal Creek	96EIROY068	FS	3.77	117	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cherry Creek, Left Fork	96EIROY067	FS	3.79	76	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Corral Creek	96EIROY135	FS	4.59	100	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Deer Creek	96EIROY057	FS	3.74		90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deer Creek	96EIROY152	FS	4.52		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek	96EIROY149	FS	4.26	NI	90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fox Creek	96EIROY078	FS	4.95		79	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Grasshopper Creek	96EIROY128	FS	3.91		81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hunter Creek	96EIROY139	FS	4.33		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Iron Bog Creek	96EIROY062	FS	4.78	NI	90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Iron Bog Creek, Left Fork	96EIROY059	FS	3.71	NI	98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Iron Bog Creek, Right Fork	96EIROY060	FS	4.61		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kane Creek	96EIROY147	FS	4.44		82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Lake Creek	96EIROY069	FS	4.95		105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Leadbelt Creek	96EIROY058	FS	3.52		63	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Little Fall Creek	96EIROY141	FS	4.63	106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Miller Canyon	96EIROY132	FS	3.97	96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Miller Canyon	96EIROY131	FS	3.79	98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Newton Creek	96EIROY154	FS	3.63	88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Park Canyon Creek	96EIROY129	FS	4.37	94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Phi Kappa Creek	96EIROY140	FS	4.73	91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pole Creek	96EIROY153	FS	4.82	84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Ramey Creek	96EIROY072	FS	4.25	95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Ramey Creek	96EIROY073	FS	3.78	106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Road Creek	96EIROY077	FS	3.09	102	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Slide Canyon Creek	96EIROY136	FS	4.71	87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Smiley Creek	96EIROY061	FS	4.11	97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Squib Canyon Creek	96EIROY137	FS	4.65		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Summit Creek	96EIROY142	FS	4.56		87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Summit Creek	96EIROY146	FS	4.90		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Summit Creek	96EIROY143	FS	4.68		87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Toolbox Creek	96EIROY130	FS	4.36		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wildhorse Creek, Left Fork	96EIROY150	FS	4.34	NI	98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040219

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Big Wood River	95SCIROA66	FS	4.11			78	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Boulder Creek	95SCIROB18	FS	3.97	NI		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Boulder Creek	95SCIROB44	FS	5.17	NI		89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Castle Creek	93SCIRO03	FS	4.56			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Corral Creek	93SCIRO07	FS	3.74			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Deer Creek	93SCIRO30	FS	4.42		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deer Creek	96SCIROB07	FS	4.54		116	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
E. Fk Wood River	95SCIROB41	FS	5.70	NI	81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
E. Fk Wood River	95SCIROB21	FS	5.29		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
E.Fk. Wood River	93SCIRO32	FS	3.76		115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
East Fork Wood River	96SCIROB53	FS	5.19	NI	94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
East Fork Wood River	96SCIROA49	FS	4.77		100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
East Fork Wood River	96SCIROA51	FS	5.18		101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Federal Gulch	95SCIROB63	FS	4.08		81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fox Creek	95SCIROB58	FS	4.10		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fox Creek	96SCIROA44	FS	2.85		130	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Greenhorn Creek	96SCIROB06	FS	4.61		85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hyndman Creek	96SCIROB28	FS	3.51		112	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Hyndman Creek	93SCIRO37	FS	4.51		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hyndman Creek	96SCIROB44	FS	4.57		116	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Indian Creek	95SCIROB23	FS	3.77	NI	78	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mill Creek	96SCIROA19	FS	4.75		105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mill Creek	96SCIROA21	FS	4.39		105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Murdock Creek	95SCIROA91	FS	4.32		81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Newman Creek	95SCIROA81	FS	4.91		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
North Fork Big Wood River	93SCIRO39	FS	4.30		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
North Fork Big Wood River	96SCIROA43	FS	4.12	NI	94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Norton Creek	96SCIROA50	FS	4.79		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Prairie Creek	96SCIROA45	FS	3.60		127	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Prairie Creek	93SCIRO40	FS	3.69		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Red Warrior Creek	95SCIROA86	FS	3.89		113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rooks Creek	95SCIROA85	FS	3.88		112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Senate Creek	95SCIROB52	FS	4.18		112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Silver Creek	95SCIROB54	FS	3.05	NV	100	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Slaughterhouse Cr	95SCIROB22	FS	2.71	NI	79	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Thompson Creek	93SCIRO18	FS	4.44		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Trail Creek	93SCIRO20	FS	4.70		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Trail Creek	96SCIROB32	FS	4.25		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Trail Creek	96SCIROB43	FS	4.93		58	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Trail Creek	93SCIRO19	FS	4.78		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Warfield Creek	95SCIROA87	FS	3.96		113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Warm Spring Creek	93SCIRO22	FS	3.90		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Warm Springs Creek	93SCIRO24	FS	4.59		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Warm Springs Creek	93SCIRO23	FS	4.82		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Warm Springs Creek	96SCIROB42	FS	4.98	NI	98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
West Fork Prairie Creek	96SCIROB65	FS	5.14		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Westernhome Gulch	95SCIROB56	FS	4.27		109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040220

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Buttercup Creek	95SCIROA52	FS	3.82			77	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cherry Creek	95SCIROA41	FS	3.00			109	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Chimney Creek	96SCIROB68	FS	4.13			42	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
East Fork Corral Creek	96SCIROB40	FS	4.30	NI		96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rough Creek	93SCIR014	FS	4.26			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sampson Creek	95SCIROA71	FS	2.82			101	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Soldier Creek	93SCIRO15	FS	4.04		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Soldier Creek	95SCIROA21	FS	3.43	NV	110	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
WF Corral Creek	93SCIRO06	FS	3.73		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17040221

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Copper Creek	96SCIROA30	FS	4.60			103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Copper Creek	96SCIROA24	FS	4.68			100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Friedman Creek	96SCIROA29	FS	4.88			116	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Friedman Creek	96SCIROA22	FS	4.79			76	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Wood River	96SCIROA48	FS	3.83			106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Silver Creek	96SCIROB50	FS	3.32	NI		91	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Silver Creek	96SCIROB51	FS	2.68	NI		95	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data is inconclusive. Further information is needed to
Silver Creek	96SCIROB52	FS	3.44	NI		102	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Stalker Creek	93SCIRO17	FS	3.06			109	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Trail Creek	96SCIROA28	FS	3.21	NI		81	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
West Fork Fish	95SCIROA43	FS	3.14			98	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.

HUC 17050102

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Big Jacks Creek L	94SWIROA07	FS	5.07			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Jacks Creek L	95SWIROA08	FS	3.77			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Jacks Creek U	95SWIROA06	FS	4.24			114	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Jacks Creek U	94SWIROA08	FS	4.87			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jarbidge River	93SWIRO47	FS	4.31			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Jacks Creek	93SWIRO49	FS	4.41		NI	0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050103

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Reynolds Creek L	95SWIROA23	FS	4.43			92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Reynolds Creek U	95SWIROA24	FS	4.26		NI	86	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050104

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Owyhee River	94SWIROA14	FS	4.45			119	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Owyhee River L	94SWIROA15	FS	3.90	NI		70	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050111

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Banner Creek L	96SWIROA95	FS	4.24			82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Banner Creek U	96SWIROA94	FS	4.89			108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear River	93SWIRO13	FS	4.12			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear River	93SWIRO38	FS	3.60			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear River U	94SWIROA27	FS	5.49			106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Beaver Creek L	96SWIROA96	FS	4.71			122	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Beaver Creek U	96SWIROA97	FS	4.92			96	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Big Owl Creek L	96SWIROA66	FS	4.46	NI	85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Silver Creek L	96SWIROA68	FS	3.86		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Silver Creek U	96SWIROA67	FS	4.71		118	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Black Warrior Creek	93SWIRO40	FS	3.88		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crooked River	93SWIRO37	FS	4.25		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crooked River	93SWIRO37	FS	3.74		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crooked River L	94SWIROA35	FS	5.47		112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crooked River L	96SWIROB87	FS	5.46		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crooked River U	94SWIROA32	FS	4.54		112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Crooked River U	96SWIROB86	FS	4.53		118	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Owl Creek L	96SWIROA69	FS	3.70	NI	110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Owl Creek U	96SWIROA70	FS	3.98	NI	92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Pikes Creek L	96SWIROA99	FS	5.18			103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pikes Creek U	96SWIROA98	FS	4.95			117	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Yuba River	93SWIRO39	FS	3.97			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050112

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Elk Creek L	96SWIROA92	FS	4.61			115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Elk Creek U	96SWIROA91	FS	4.28			104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Grimes Creek	95SWIROA65	FS	3.55			97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rattlesnake Creek	96SWIROA90	FS	4.13			116	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050113

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Bear Creek	95SCIROA82	FS	4.91			116	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bear Creek	95SCIROA83	FS	4.70	NI		96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Smoky	95SCIROA75	FS	3.51	NI		96	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Boardman Creek	96SCIROA55	FS	4.73		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Boise River, SF	95SWIROA56	FS	4.60		86	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Boise River, SF U	95SWIROA53	FS	4.11		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bowns Creek	95SCIROA78	FS		NI	99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Carrie Creek	95SCIROA90	FS	4.59		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Emma Creek	96SCIROA37	FS	4.35		109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Emma Creek	96SCIROA31	FS	4.71	NI	94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Grindstone Creek	95SCIROB33	FS	3.37	NI	103	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Headquarters Camp	95SCIROB60	FS	4.64		104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Johnson Creek	96SCIROA35	FS	4.72	NI	92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
No Name Creek	96SWIROB36	FS	4.06		94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Op Creek	96SCIROA15	FS	4.46		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Op Creek	96SCIROA18	FS	4.69	NI	99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Paradise Creek	95SCIROA74	FS	3.51		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Paradise Creek	96SCIROA53	FS	3.67		114	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Red Rock Creek	95SCIROA79	FS	3.65		102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Ross Fork Creek	96SCIROA41	FS	4.98	NI	98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Ross Fork Creek	96SCIROA39	FS	3.52		115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Salt Creek	95SCIROA77	FS	4.65		114	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Skeleton Creek	96SCIROA34	FS	4.91		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Skeleton Creek	96SCIROA33	FS	3.23	NI	93	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Skunk Creek	96SCIROA16	FS	3.97		111	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Skunk Creek	95SCIROA88	FS	5.16	NI	91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Skunk Creek	96SCIROA17	FS	4.29		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

South Fork Boise R	95SCIROA67	FS	4.17	NI		90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
South Fork Boise R	95SCIROA76	FS	3.95	NI		80	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Spring Creek	96SWIROB70	FS	4.91			97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Johnson Fork Creek	95SWIROA52	FS	4.39			104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Trinity Creek, NF	95SWIROA51	FS	5.34			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Whiskey Jack Creek	96SWIROB71	FS	5.21			126	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050121

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Big Bulldog Creek	93SWIRO22	FS	4.94			134	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050122

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Big Willow Creek 001	94SWIROA01	FS	3.52			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Willow Creek 002	94SWIROA02	FS	4.32			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Willow Creek U	96SWIROA49	FS	3.44	NI	NI	104	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

HUC 17050123

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Box 001	94SWIROA51	FS	5.11			118	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Box Creek	95SWIROC15	FS	5.10			100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Box Creek L	94SWIROB20	FS	4.94			122	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Box Creek M	95SWIROC07	FS	4.80			110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Box Creek U	95SWIROB55	FS	4.39			82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cougar Creek	95SWIROB50	FS	2.76	NV	NI	98	No major criteria exceedence documented. Macroinvertebrate data inconclusive. Fish data, if available, is inconclusive. Periphyton data does not
Cougar Creek L	94SWIROA54	FS	4.10			106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deadhorse U	94SWIROA52	FS	4.85			116	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deadhorse Creek	95SWIROA46	FS	4.30			114	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deep Creek	93SWIRO08	FS	3.48	NI		0	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Deep Creek	95SWIROA58	FS	4.61			141	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Deep Creek L	95SWIROA44	FS	3.80			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deer Creek	95SWIROA33	FS	4.83		NI	93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deer Creek	94SWIROB07	FS	4.40			107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Deer Creek	95SWIROA34	FS	5.51			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek L	95SWIROC08	FS	4.72			106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek L	94SWIROA50	FS	3.32	NI	NI	94	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Fall Creek M	95SWIROC09	FS	4.54	NI		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fall Creek U	95SWIROA43	FS	3.09	NI	NV	106	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Fall Creek U	94SWIROB19	FS	4.87			110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fisher Creek L	93SWIRO06	FS	3.50		NI	0	No major criteria exceedence documented. Macroinvertebrate data inconclusive. Fish data, if available, is inconclusive. Periphyton data does not
Fisher Creek L	95SWIROB53	FS	4.27			85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fisher Creek U	95SWIROB54	FS	4.56			114	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Fisher Creek U	93SWIRO55	FS	4.51		NV	0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Flat Creek L	94SWIROB02	FS	3.61		NI	73	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Flat Creek L	95SWIROB45	FS	4.34			91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Flat Creek U	95SWIROB46	FS	3.55			90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Flat Creek U	94SWIROB01	FS	4.10			101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Gold Fork River U	94SWIROB05	FS	4.60	NI		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Gold Fork River U	95SWIROA45	FS	4.26	NI		96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kennally Creek	94SWIROB04	FS	4.62		NI	84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kennally Creek L	95SWIROA40	FS	4.61			73	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kennally Creek U	95SWIROA41	FS	5.33			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Payette River, NF	94SWIROB22	FS	2.54			118	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Payette River, NF	93SWIRO05	FS	3.38		NI	0	No major criteria exceedence documented. Macroinvertebrate data inconclusive. Fish data, if available, is inconclusive. Periphyton data does not
Payette River, NF U	94SWIROA55	FS	3.86			141	No major criteria exceedence documented. All biological data available is

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Payette River, NF U	94SWIROB21	FS	3.07	NI	104	No major criteria exceedence documented. Macroinvertebrate data inconclusive. Fish data, if available, is inconclusive. Periphyton data does not
Pearl Creek L	93SWIRO11	FS	3.69		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pearl Creek L	95SWIROB52	FS	4.30		111	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pearl Creek U	95SWIROB56	FS	3.96		67	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pearl Creek U	93SWIRO10	FS	3.71		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Silver Creek L	95SWIROA30	FS	5.04		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Silver Creek U	95SWIROA32	FS	4.08		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sloan Creek L	95SWIROA39	FS	2.81	NI	93	No major criteria exceedence documented. Macroinvertebrate data inconclusive. Fish data, if available, is inconclusive. Periphyton data does not
Trail Creek	95SWIROB48	FS	3.95		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Trail Creek U	96SWIROB81	FS	4.25		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek	93SWIRO09	FS	4.63		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek L	94SWIROA56	FS	4.57		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Twentymile Creek L	96SWIROB59	FS	4.46	106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek L	95SWIROC20	FS	4.24	102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek M	95SWIROC19	FS	4.28	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek M	96SWIROB60	FS	5.30	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek U	96SWIROB61	FS	4.41	107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek U	95SWIROC18	FS	4.68	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twentymile Creek U	94SWIROA57	FS	4.30	127	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050124

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Beaver Creek L	94SWIROA40	FS	5.24			85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Beaver Creek U	94SWIROA39	FS	4.81			104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Dewey Creek L	94SWIROA38	FS	5.82			111	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Dewey Creek U	94SWIROA37	FS	5.04			97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Goodrich Creek	94SWIROA65	FS	4.40	NI	95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hornet Creek	93SWIRO29	FS	4.92		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Weiser River M	95SWIROB35	FS	4.85		90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Lost Creek, EF	94SWIROA20	FS	3.85		89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Lost Creek, WF U	94SWIROA19	FS	4.80		104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mann Creek	94SWIROA36	FS	4.58	I	92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mann Creek	93SWIRO16	FS	5.13		0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17050201

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Duke Creek	94SWIROA22	FS	4.75		NI	77	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Indian Creek L	93SWIRO30	FS	5.01			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Indian Creek U	93SWIRO31	FS	4.75			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wildhorse River	93SWIRO12	FS	5.04			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Wildhorse River	95SWIROC11	FS	5.35			103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wildhorse River L	94SWIROA33	FS	5.46			105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wildhorse River U	95SWIROB30	FS	4.24			100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wildhorse River U	94SWIROA34	FS	4.78			110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060108

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
White Pine Creek	96NCIROB31	FS	4.49			123	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060201

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Basin Creek	96EIROY108	FS	3.53	NI		81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Bayhorse Creek	96EIROY124	FS	3.65	NI		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Beaver Creek	96EIROY095	FS	3.60	NI		88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Beaver Creek	96EIROY094	FS	4.67	NI		100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Broken Ridge Creek	96EIROY113	FS	4.65			86	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Cabin Creek	96EIROY115	FS	3.90		85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Challis Creek (Headwaters to	95EIRO0A25	FS	4.04	NI	98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Champion Creek	96EIROY100	FS	3.96		77	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cinnibar Creek	96EIROY120	FS	3.64		60	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Coal Creek	96EIROY104	FS	4.51		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
East Basin Creek	96EIROY105	FS	5.26		86	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fisher Creek	96EIROY103	FS	3.78		90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fisher Creek	96EIROY102	FS	4.16		74	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fourth of July Creek	96EIROY099	FS	4.84		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fourth of July Creek	96EIROY098	FS	4.60		113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Frenchman Creek	96EIROY083	FS	4.45		100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Frenchman Creek	96EIROY082	FS	3.71		100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Garden Creek (Headwaters to	95EIRO0A26	FS	3.35	NI	101	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Garden Creek (Headwaters to	95EIRO0A30	FS	4.12	NI	96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hay Creek	96EIROY107	FS	4.44		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Jordan Creek	95EIRO0A39	FS	2.64	NI	75	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Jordan Creek	95EIRO0A38	FS	4.46	NI	103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Juliette Creek	96EIROY125	FS	4.01		102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kinnikinic Creek	96EIROY112	FS	4.32		94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kinnikinic Creek	96EIROY114	FS	4.73		94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Lick Creek	95EIRO0A56	FS	4.24		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mays Creek	96EIROY101	FS	2.90		107	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Morgan Creek	95EIRO0A50	FS	3.52	NI	96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Morgan Creek	95EIRO0B41	FS	3.98		100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Morgan Creek	94EIRO0038	FS	3.71	NI	70	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Morgan Creek	94EIRO0037	FS	5.16	NI	97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pettit Lake Creek	95EIRO0B87	FS	2.69	NI	97	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Pettit Lake Creek	95EIRO0B86	FS	2.64	NI	117	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Rainbow Creek	96EIROY091	FS	4.54		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rough Creek	96EIROY109	FS	3.81		128	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Rough Creek	96EIROY110	FS	4.94		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sawmill Creek	96EIROY117	FS	4.74		109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Short Creek	96EIROY106	FS	3.93		102	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Smiley Creek	96EIROY087	FS	4.59		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Smiley Creek	96EIROA089	FS	4.06		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Smiley Creek	96EIROY086	FS	4.93		92	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Smiley Creek, East	96EIROY084	FS	3.53		93	No major criteria exceedence documented. Macroinvertebrate data does not

Fork							indicate any biological imparement.
Smiley Creek, West Fork	96EIROY085	FS	4.97			90	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Twin Creek	96EIROY090	FS	3.00			109	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Upper Harden Creek	96EIROY111	FS	5.15			96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Valley Creek (Headwaters to	95EIRO0A71	FS	4.71	NI		82	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060202

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Morse Creek (headwaters to USFS	95EIRO0A23	FS	4.77			110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Morse Creek (headwaters to USFS	94EIRO0057	FS	5.98			106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Patterson Creek (Headwaters to	95EIRO0A83	FS	4.13	NI		84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060203

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Big Deer Creek (Headwaters to	95EIRO0A47	FS	4.67			110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Blackbird Creek, West Fork	95EIRO	FS	.00			0	Other. See criteria exceedences or site documentation.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Blacktail Creek	96EIROZ087	FS	3.80		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Carmen Creek (Headwaters to	94EIRO0043	FS	4.95	NI	96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Colson Creek	96EIROZ102	FS	3.99		107	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Fourth of July Creek	96EIROZ088	FS	5.06		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hull Creek	96EIROZ094	FS	4.67		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hull Creek	96EIROZ097	FS	3.45		111	No major criteria exceedence documented. All biological data available is inconclusive. Habitat data does not indicate imparement of any beneficial uses.
Long Tom Creek	96EIROZ101	FS	3.79		95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mocassin Creek	96EIROZ113	FS	4.19		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Napias Creek	94EIRO0060	FS	4.63	NI	91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Napias Creek	96EIROZ111	FS	4.31	NI	97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Napias Creek	96EIROZ110	FS	3.99	NI	110	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Napias Creek	94EIRO0061	FS	2.77	NI	98	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Napias Creek	96EIROZ109	FS	3.95	NI	84	No major criteria exceedence documented. Macroinvertebrate data does not

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

						indicate any biological imparement.
Panther Creek (Headwaters to	95EIRO0B40	FS	5.09	NI	89	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Perreau Creek	96EIROZ107	FS	5.04		99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pine Creek	96EIROZ103	FS	4.24		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sage Creek	96EIROZ093	FS	3.90		93	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sage Creek, East Fork	96EIROZ092	FS	3.59		96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sage Creek, West Fork	96EIROZ091	FS	4.11		105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Spring Creek	96EIROZ106	FS	4.72		113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Spring Creek, East Fork	96EIROZ105	FS	4.87		106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Squaw Creek	96EIROZ104	FS	3.78		104	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tower Creek	96EIROZ090	FS	5.49		98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wallace Creek	96EIROZ086	FS	4.84		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Williams Creek	96EIROZ112	FS	5.00		108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Hawley Creek (Headwaters to	94EIRO0052	FS	4.24	91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kadletz Creek	96EIROZ012	FS	4.92	105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Kirtley Creek, North Fork (Headwaters to	95EIRO0B75	FS		103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mill Creek (Headwaters to	94EIRO0049	FS	4.52	115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mulkey Creek	96EIROZ014	FS	3.58	56	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pattee Creek	96EIROZ076	FS	3.85	87	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Pattee Creek	96EIROZ077	FS	4.42	96	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Sandy Creek (Headwaters to BLM	95EIRO0A54	FS	4.15	84	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Tobias Creek	96EIROZ015	FS	3.65	91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Wimpey Creek, West Fork (Headwaters to	95EIRO0A55	FS	4.60	111	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060207

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Bear Basin Creek	96EIROZ099	FS	3.59			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Williams Creek, North Fork	96EIROZ114	FS	4.29			95	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Williams Creek, South Fork	96EIROZ108	FS	4.01			98	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060204

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Agency Creek	96EIROZ075	FS	5.36			85	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Agency Creek	96EIROZ074	FS	4.54			83	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Basin Creek	96EIROZ078	FS	4.67			94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Eightmile Creek (Headwaters to	94EIRO0055	FS	5.19			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Big Timber Creek (Headwaters to	95EIRO0A77	FS	4.41	NI		81	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Canyon Creek	96EIROZ083	FS	2.72	NI		102	No major criteria exceedence documented. Macroinvertebrate data is inconclusive. Fish data does not indicate any biological imparement.
Canyon Creek	96EIROZ080	FS	4.25			88	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Cow Creek	96EIROZ073	FS	4.30			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Frank Hall Creek	96EIROZ081	FS	4.34			100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

Corn Creek	96EIROZ098	FS	4.98			111	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060208

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Buckhorn Creek	94SWIROA47	FS	4.03	NI		91	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Buckhorn Creek, WF	94SWIROA46	FS	5.05	NI		94	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Burnt Log Creek	93SWIRO07	FS	4.24		NI	0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Riordan Creek	93SWIRO17	FS	3.92			0	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Six Bit L	94SWIROA59	FS	5.65			119	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Six Bit U	94SWIROA58	FS	5.94			122	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Six-bit Creek	95SWIROC32	FS	5.08			109	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Six-bit Creek L	95SWIROC24	FS	4.94			105	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Summit Creek L	96SWIROB79	FS	4.72			103	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Summit Creek U	96SWIROB80	FS	4.24			115	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

Non-303(d) Listed Segments Found to be Supporting their Beneficial Uses

HUC 17060210

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Boulder Creek L	95SWIROC23	FS	4.87			100	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Boulder Creek U	95SWIROC22	FS	5.71			123	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Hard Creek	95SWIROC14	FS	4.45			108	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Goose Creek L	96SWIROB85	FS	4.55	NI		97	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Little Goose Creek U	96SWIROB84	FS	3.92			112	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Mud Creek	95SWIROB37	FS	4.17			101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Round Valley Creek	94SWIROA18	FS	4.74			101	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Round Valley Creek	94SWIROA17	FS	5.36			113	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

HUC 17060305

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Donkey Creek	95NCIROA21	FS	3.67			106	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.
Otterson Creek	96NCIROC07	FS	2.67	NI		108	No major criteria exceedence documented. Macroinvertebrate data is

inconclusive. Fish data does not indicate any biological imparement.

HUC 17060306

Waterbody	Site ID	Waterbody Status	MBI	RIBI	ABI	HI	SITE RATIONAL
Crocker Creek	95NCIROB28	FS	3.63			99	No major criteria exceedence documented. Macroinvertebrate data does not indicate any biological imparement.

2.6 POLLUTANT SPECIFIC LIST BY WATER BODY

This is the 303(d) list sorted by individual pollutant (18). Included on this list is the water quality segment number, hydrologic unit number, common water body name, weather this is an add for 1998, and length of stream listed for specific pollutant. Please note, water bodies can be listed on multiple lists if it has multiple pollutants.

Reference Section 2.0 for key to list headings.

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#16010202					
5255	Maple Creek	Left Fork to Cub River	*ADD* BAC	UNKN	8.14
		NEW MILES	8.14	TOTAL MILES OF LISTED STREAMS	8.14
HUC#17010214					
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC DO HALT	NUT PST SED	19.37
7443	Fish Creek	Headwaters to Cocolalla Creek	BAC	SED TEMP	5.09
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	24.46
HUC#17010301					
3500	Prichard Creek	Barton Gulch to N Fk CdA River	BAC DO HALT	NUT O/G SED TEMP	10.20
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	10.20
HUC#17010303					
3535	Latour Creek	Headwaters to CdA River	BAC HALT	SED TEMP	16.31
3541	Wolf Lodge Creek	Headwaters to CdA Lake	BAC HALT	NUT SED	10.30
3543	Fernan Creek	Fernan Lake to CdA Lake	BAC DO HALT	NUT SED	.68
3547	North Fork Mica Creek	Headwaters to CdA Lake	BAC DO HALT	NUT SED	7.74
7535	Baldy Creek	Headwaters to Latour Creek	BAC HALT	SED TEMP	5.17
7536	Larch Creek	Headwaters to Latour Creek	BAC HALT	SED TEMP	1.44
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	41.64
HUC#17010304					
7575	Tank Creek	Headwaters to St. Joe River	BAC DO	SED TEMP	2.14
7576	Harvey Creek	Headwaters to St. Joe River	BAC DO	SED TEMP	3.44
7577	Blackjack Creek	Headwaters to St. Joe River	BAC DO	SED TEMP	1.96
7598	Gramp Creek	Headwaters to Gold Center Creek	BAC	SED TEMP	4.60
7606	Bear Creek	Headwaters to Marble Creek	BAC	SED TEMP	2.47
7607	Little Bear Creek	Headwaters to Big Bear Creek	BAC	SED TEMP	2.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	16.61
HUC#17010305					
7561	Twin Lakes		BAC	NUT SED	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17010306								
3565	Hangman Creek	IR Boundary to ID/WA line	BAC		NUT	SED		17.47
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			17.47
HUC#17040206								
2349	Bannock Creek	Headwaters to IR Boundary	BAC		NUT	SED		21.12
6351	Bannock Creek	IR Boundary to American Falls	BAC		NUT	SED		30.31
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			51.43
HUC#17040208								
2324	Portneuf River	Interstate 86 to IR Boundary	BAC		NUT	SED		1.74
2325	Portneuf River	Diversion, T9SR37ES22 to Marsh Cree	BAC		NUT	SED		18.45
2326	Portneuf River	Lava Hot Springs to PVC diversion	BAC		NUT	SED		8.01
2327	Portneuf River	Downey Canal return to Lava Hot Springs	BAC	QALT	NUT	SED		18.19
2328	Portneuf River	Chesterfield Reservoir to Downey Canal return	BAC	QALT	NUT	SED		13.38
5150	Portneuf River	IR Boundary to American Falls Reser	BAC		NUT	SED		4.33
6324	Portneuf River	Johnny Creek to Interstate 86	BAC		NUT O/G	SED		9.82
6325	Portneuf River	Marsh Creek to Johnny Creek	BAC		NUT	SED		12.90
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			86.82
HUC#17040210								
2430	Raft River	Malta to Snake River	BAC	DO QALT	NH3 NUT	SED		33.93
2431	Raft River	Utah Line to Malta	BAC	DO QALT		SALSED	TEMP	42.19
2432	Sublett Creek	Sublett Res to lower boundaries	*ADD* BAC	DO QALT	NUT	SED		8.24
		NEW MILES	2.23		TOTAL MILES OF LISTED STREAMS			84.36
HUC#17040211								
2447	Goose Creek	State line to Lower Goose Creek Reservoir	BAC	DO QALT	NUT	SED	TEMP	15.42
2448	Birch Creek	Headwaters to Oakley (town)	BAC	DO		SED		14.97
2449	Trapper Creek	Ibex Hollow to Lower Goose Creek Reservoir	BAC	DO QALT		SED		7.62
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			38.01
HUC#17040212								
2370	Bliss Reservoir		BAC	DO QALT	NH3	SED		.00

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)						STREAM MILES
2377	Snake River	Murtaugh to Twin Falls Reservoir		BAC	DO	NH3		SED		11.65
2378	Snake River	Milner Dam to Murtaugh		BAC	DO QALT			SED	TEMP	8.53
2380	Pioneer Reservoir			BAC	DO QALT	NH3 NUT		SED	TEMP	.00
2385	Riley Creek	Headwaters to Snake River		BAC	DO	NH3 NUT		SED		2.47
2389	Blind Canyon	Headwaters to Snake River		BAC	DO QALT	NH3 NUT		SED		.72
2400	Rock Creek	Rock Creek (town) to Snake		BAC	DO QALT	NH3 NUT O/G		SED		26.07
2403	Cottonwood Creek	Headwaters to Rock Creek		BAC	QALT	NH3 NUT	PST	SED		6.57
2404	McMullen Creek	Headwaters to Cottonwood Creek		BAC	DO QALT	NUT		SED	TEMP	15.70
2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake		BAC	QALT			SED	TEMP	10.19
2411	West Fork Dry Creek	Headwaters to Dry Creek		BAC	DO QALT	NUT		SED		6.22
5286	Deep Creek	High Line Canal to Snake River	*ADD*	BAC					UNKN	19.43
5646	Cedar Draw	Headwaters to Snake River	*ADD*	BAC					UNKN	15.72
5647	Mud Creek	Low Line Canal to Snake River	*ADD*	BAC					UNKN	11.80
		NEW MILES	46.95			TOTAL MILES OF LISTED STREAMS				135.07
HUC#17040213										
2459	Salmon Falls Creek	Bluegill Lake to Snake River		BAC	DO	NUT		SED		8.81
2462	Cedar Creek	Cedar Creek Res to Salmon Falls Cr		BAC	DO QALT	NUT		SED		19.55
2463	Cedar Creek Reservoir			BAC	DO QALT	NH3 NUT		SED		.00
2466	Shoshone Creek	Magic Hot Springs to Nevada		BAC	DO			SED	TEMP	4.71
2468	Shoshone Creek	Cottonwood Creek to Big Creek		BAC	DO QALT	NUT		SED	TEMP	6.44
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				39.51
HUC#17040219										
2476	Big Wood River	Little Wood River to Interstate		BAC	DO QALT	NH3 NUT		SED		9.29
2477	Big Wood River	Highway 75 to Little Wood River		BAC	DO QALT	NH3 NUT		SED		32.65
2487	Rock Creek	Headwaters to Magic Reservoir		BAC	HALT			SED	TEMP	12.02
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				53.96
HUC#17040220										
2537	Soldier Creek	Baseline to Camas Creek		BAC	DO QALT	NUT		SED		6.70
2539	Mormon Reservoir			BAC	DO QALT	NUT		SED		.00
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				6.70
HUC#17040221										
2511	Little Wood River	Richfield (town) to Big Wood River		BAC	DO QALT	NUT		SED		50.76

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2513	Little Wood River	East Canal Diversion to Silver Cr	BAC DO QALT	NUT SED	14.12
2515	Little Wood River Reservoir		BAC DO QALT	NUT SED	.00
2521	Dry Creek	Headwaters to Little Wood River	BAC DO QALT	NUT SED	13.87
2522	Fish Creek	Fish Creek Reservoir to Carey Lake	BAC DO QALT	NUT SED	12.73
2523	Fish Creek Reservoir		BAC DO QALT	NUT SED	.00
5650	Fish Creek	Headwaters to Fish Creek Reservoir	*ADD* BAC DO QALT	NUT SED	12.95
		NEW MILES	12.95	TOTAL MILES OF LISTED STREAMS	104.43
HUC#17050102					
2557	Hot Creek	Headwaters to Bruneau River	BAC QALT	SED	21.79
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	21.79
HUC#17050103					
2668	Snake River	Swan Falls to Boise River	BAC DO QALT	NUT pH SED	54.70
2683	South Fork Castle Creek	Headwaters to Castle Creek	BAC		10.27
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	64.97
HUC#17050104					
2621	Battle Creek	Headwaters to Owyhee River	BAC		62.33
2630	Shoofly Creek	Headwaters to Blue Creek	BAC		22.85
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	85.18
HUC#17050107					
2641	North Fork Owyhee River	Headwaters to Oregon Line	BAC		22.51
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	22.51
HUC#17050108					
2648	Jordan Creek	Williams Creek to Oregon Line	BAC	O/G PST SED	9.49
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	9.49
HUC#17050114					
2726	Boise River	Notus (town) to Snake River	BAC	NUT SED TEMP	15.83
2727	Boise River	Star (town) to Notus (town)	BAC	NUT SED	21.49
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	37.32

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17050115								
2664	Snake River	Boise River to Weiser River	BAC		NUT	pH	SED	42.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			42.00
HUC#17050122								
2689	Payette River	Black Canyon Dam to Snake River	BAC		NUT		TEMP	39.22
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			39.22
HUC#17050123								
2898	Mud Creek	Headwaters to Cascade Reservoir	BAC	DO	NH3 NUT		SED	12.04
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			12.04
HUC#17050124								
2834	Weiser River	Galloway Dam to Snake River	BAC	DO	NUT		SED TEMP	12.39
2840	Crane Creek	Crane Creek Res to Weiser River	BAC		NUT		SED	12.60
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	BAC	QALT	NUT		SED TEMP	24.65
6834	Weiser River	Little Weiser River to Galloway Dam	BAC		NUT		SED	31.50
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			81.14
HUC#17060108								
3122	Deep Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT		SED TEMP	12.16
3123	Flannigan Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT		SED TEMP	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT		SED TEMP	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	BAC	QALT HALT	NUT		SED TEMP	4.45
3126	Hatter Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT		SED TEMP	9.79
3128	Big Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT		SED TEMP	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	BAC	QALT HALT	NUT		SED TEMP	13.42
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			67.04
HUC#17060204								
7611	Lemhi River	Conflu of Texas & 18-mile Creeks to Salmon River	*ADD* BAC					57.29
		NEW MILES	57.29		TOTAL MILES OF LISTED STREAMS			57.29
HUC#17060209								

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
3325	Maloney Creek	Headwaters to Salmon River	BAC	QALT	NUT SED TEMP	10.14
3326	Deep Creek	Headwaters to Salmon River	BAC	QALT HALT	NUT SED TEMP	11.66
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	21.80
HUC#17060305					
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC	DO HALT	NH3 NUT SED TEMP	31.19
3290	South Fork Cottonwood Creek	Headwaters to Cottonwood Creek	BAC	HALT	NUT TEMP	6.96
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT	NH3 NUT SED TEMP	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT	SED TEMP	12.37
7288	Stockney Creek	Headwaters to Cottonwood Creek	BAC		SED	11.95
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	80.65
HUC#17060306					
3137	Long Hollow Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	NUT SED	16.03
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	MTU NH3 NUT O/G ORG PST SED	9.08
3141	Lindsay Creek	Boundary to Clearwater River	BAC	DO QALT HALT	NUT SED TEMP	7.35
3142	Hatwai Creek	Headwaters to Clearwater River	BAC	HALT	NUT TEMP	7.93
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	BAC	DO QALT HALT	NUT SED TEMP	16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO QALT HALT	NUT ORG PST SED TEMP	19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC	DO QALT HALT	NUT SED TEMP	5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO QALT HALT	NH3 NUT ORG SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO QALT HALT	NH3 NUT O/G ORG PST SED TEMP	14.13
3150	Potlatch River	Headwaters to Bear Creek	BAC	QALT HALT	NUT SED TEMP	40.47
3155	Pine Creek	Headwaters to Potlatch River	BAC	QALT HALT	NUT SED TEMP	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	BAC	QALT HALT	NUT SED TEMP	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	BAC	QALT HALT	NUT SED TEMP	2.14
3159	Moose Creek	Headwaters to Potlatch River	BAC	QALT HALT	NUT pH SED TEMP	5.76
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO QALT HALT	NH3 NUT O/G SED TEMP	6.08
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	BAC	QALT HALT	NUT SED TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO QALT HALT	NH3 NUT O/G SED TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	BAC	QALT HALT	NUT SED TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO QALT HALT	NUT O/G SED TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	BAC	QALT HALT	NUT SED TEMP	13.33

1998 303(d) List: Segments Listed for Bacteria as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)								STREAM MILES
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT	O/G	ORG	PST	SED	TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO	QALT	HALT	NH3	NUT	O/G			SED	TEMP	7.30
4010	Pine Creek	Headwaters to Boundary	BAC	DO	QALT	HALT		NUT				SED	TEMP	10.01
5125	Middle Potlatch Creek	Headwaters to Potlatch River	BAC		QALT	HALT		NUT				SED	TEMP	16.42
7143	Winchester Lake		BAC	DO	QALT	HALT		NUT			PST	SED	TEMP	.00
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO	QALT	HALT	NH3			ORG	PST		TEMP	19.45
		NEW MILES	0.00									TOTAL MILES OF LISTED STREAMS		329.77
HUC#17060308														
3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT				SED	TEMP	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT				SED	TEMP	20.85
3190	Elk Creek Reservoir		BAC	DO	QALT	HALT		NUT				SED	TEMP	.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT				SED	TEMP	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT				SED	TEMP	7.36
		NEW MILES	0.00									TOTAL MILES OF LISTED STREAMS		47.15

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF NEW SEGMENTS: 122
TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 127
TOTAL MILES NEW TO 1998 303(d) LIST: 128.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 1,738.1

1998 303(d) List: Segments Listed for Channel Stability as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)	STREAM MILES
HUC#17060306						
3156	Cedar Creek	Leopold Creek to Potlatch River		CHS		5.17
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	5.17
HUC#17060307						
5178	Sneak Creek	Headwaters to N Fk Clearwater		CHS		3.49
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	3.49

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 2
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00
TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 8.6

1998 303(d) List: Segments Listed for Dissolved Oxygen as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)							STREAM MILES
HUC#17010214											
3438	Spirit Lake			DO			NUT		SED		.00
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC	DO	HALT		NUT	PST	SED		19.37
7442	Cocolalla Lake			DO			NUT				.00
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				19.37
HUC#17010215											
3415	East River	North Fk East River to Priest River		DO	QALT				SED	TEMP	2.43
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				2.43
HUC#17010301											
3500	Prichard Creek	Barton Gulch to N Fk CdA River	BAC	DO	HALT		NUT	O/G	SED	TEMP	10.20
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				10.20
HUC#17010303											
3543	Fernan Creek	Fernan Lake to CdA Lake	BAC	DO	HALT		NUT		SED		.68
3547	North Fork Mica Creek	Headwaters to CdA Lake	BAC	DO	HALT		NUT		SED		7.74
4023	Coeur d'Alene River	Thompson Lake to CdA Lake		DO	HALT	MTU		pH	SED	TEMP	4.19
7543	Fernan Lake			DO			NUT		SED		.00
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				12.61
HUC#17010304											
3585	Santa Creek	Headwaters to St. Maries River		DO	HALT		NUT		SED		15.86
7575	Tank Creek	Headwaters to St. Joe River	BAC	DO					SED	TEMP	2.14
7576	Harvey Creek	Headwaters to St. Joe River	BAC	DO					SED	TEMP	3.44
7577	Blackjack Creek	Headwaters to St. Joe River	BAC	DO					SED	TEMP	1.96
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				23.40
HUC#17010305											
3562	Hauser Lake			DO			NUT				.00
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				.00
HUC#17040206											
2346	American Falls Reservoir			DO			NUT		SED		.00
2348	Snake River	Bonneville County line to Ferry But		DO	QALT		NUT		SED		40.44

1998 303(d) List: Segments Listed for Dissolved Oxygen as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)				STREAM MILES
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				40.44
HUC#17040208								
6337	Hawkins Reservoir			DO	NUT			.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				.00
HUC#17040209								
2359	Milner Lake			DO QALT	NUT O/G	SED		.00
2362	Snake River	Massacre Rocks to Lake Walcott		DO	PST	SED		20.51
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				20.51
HUC#17040210								
2430	Raft River	Malta to Snake River	BAC	DO QALT	NH3 NUT	SED		33.93
2431	Raft River	Utah Line to Malta	BAC	DO QALT		SALSED	TEMP	42.19
2432	Sublett Creek	Sublett Res to lower boundaries	*ADD* BAC	DO QALT	NUT	SED		8.24
2434	Sublett Reservoir			DO QALT	NUT	SED		.00
		NEW MILES	2.23	TOTAL MILES OF LISTED STREAMS				84.36
HUC#17040211								
2446	Lower Goose Creek Reservoir			DO QALT	NUT	SED		.00
2447	Goose Creek	State line to Lower Goose Creek Reservoir	BAC	DO QALT	NUT	SED	TEMP	15.42
2448	Birch Creek	Headwaters to Oakley (town)	BAC	DO		SED		14.97
2449	Trapper Creek	Ibex Hollow to Lower Goose Creek Reservoir	BAC	DO QALT		SED		7.62
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				38.01
HUC#17040212								
2370	Bliss Reservoir		BAC	DO QALT	NH3	SED		.00
2372	Lower Salmon Falls Reservoir			DO QALT		SED		.00
2373	Upper Salmon Falls Reservoir			DO QALT		SED		.00
2375	Shoshone Falls Reservoir			DO QALT		SED		.00
2377	Snake River	Murtaugh to Twin Falls Reservoir	BAC	DO	NH3	SED		11.65
2378	Snake River	Milner Dam to Murtaugh	BAC	DO QALT		SED	TEMP	8.53
2380	Pioneer Reservoir		BAC	DO QALT	NH3 NUT	SED	TEMP	.00
2384	Billingsley Creek	Headwaters to Snake River		DO QALT	NH3	SED		7.57
2385	Riley Creek	Headwaters to Snake River	BAC	DO	NH3 NUT	SED		2.47

1998 303(d) List: Segments Listed for Dissolved Oxygen as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
2389	Blind Canyon	Headwaters to Snake River	BAC	DO QALT	NH3 NUT	SED	.72
2395	Clear Springs	Headwaters to Snake River		DO	NH3 NUT	SED	1.00
2398	Crystal Springs	Headwaters to Snake River		DO QALT	NH3 NUT	SED	.20
2400	Rock Creek	Rock Creek (town) to Snake	BAC	DO QALT	NH3 NUT O/G	SED	26.07
2404	McMullen Creek	Headwaters to Cottonwood Creek	BAC	DO QALT	NUT	SED TEMP	15.70
2405	Alpheus Creek	Headwaters to Snake River		DO	NUT	SED	.35
2411	West Fork Dry Creek	Headwaters to Dry Creek	BAC	DO QALT	NUT	SED	6.22
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		80.48
HUC#17040213							
2459	Salmon Falls Creek	Bluegill Lake to Snake River	BAC	DO	NUT	SED	8.81
2462	Cedar Creek	Cedar Creek Res to Salmon Falls Cr	BAC	DO QALT	NUT	SED	19.55
2463	Cedar Creek Reservoir		BAC	DO QALT	NH3 NUT	SED	.00
2466	Shoshone Creek	Magic Hot Springs to Nevada	BAC	DO		SED TEMP	4.71
2468	Shoshone Creek	Cottonwood Creek to Big Creek	BAC	DO QALT	NUT	SED TEMP	6.44
2471	Cottonwood Creek	Headwaters to Shoshone Creek		DO	NUT	SED	11.19
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		50.70
HUC#17040218							
2161	Big Lost River	Moore Diversion to US 26		DO QALT	NUT	SED TEMP	19.20
2167	Spring Creek	Springs to Big Lost River		DO QALT	NUT	SED TEMP	17.11
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		36.31
HUC#17040219							
2476	Big Wood River	Little Wood River to Interstate	BAC	DO QALT	NH3 NUT	SED	9.29
2477	Big Wood River	Highway 75 to Little Wood River	BAC	DO QALT	NH3 NUT	SED	32.65
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		41.94
HUC#17040220							
2537	Soldier Creek	Baseline to Camas Creek	BAC	DO QALT	NUT	SED	6.70
2539	Mormon Reservoir		BAC	DO QALT	NUT	SED	.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		6.70
HUC#17040221							
2511	Little Wood River	Richfield (town) to Big Wood River	BAC	DO QALT	NUT	SED	50.76
2513	Little Wood River	East Canal Diversion to Silver Cr	BAC	DO QALT	NUT	SED	14.12

1998 303(d) List: Segments Listed for Dissolved Oxygen as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2515	Little Wood River Reservoir		BAC	DO QALT NUT SED	.00
2521	Dry Creek	Headwaters to Little Wood River	BAC	DO QALT NUT SED	13.87
2522	Fish Creek	Fish Creek Reservoir to Carey Lake	BAC	DO QALT NUT SED	12.73
2523	Fish Creek Reservoir		BAC	DO QALT NUT SED	.00
5650	Fish Creek	Headwaters to Fish Creek Reservoir	*ADD* BAC	DO QALT NUT SED	12.95
		NEW MILES	12.95	TOTAL MILES OF LISTED STREAMS	104.43
HUC#17050102					
2551	Jacks Creek	Little Jacks Cr to CJ Strike Res		DO QALT NUT SED TEMP	12.31
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	12.31
HUC#17050103					
2668	Snake River	Swan Falls to Boise River	BAC	DO QALT NUT pH SED	54.70
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	54.70
HUC#17050114					
2730	Sand Hollow Creek	Headwaters to Boise River		DO NUT SED	23.67
2731	Indian Creek	New York Canal to Boise River		DO NUT O/G SED	16.62
2733	Mason Creek	Headwaters to Boise River		DO NUT SED	17.75
2734	Fivemile Creek	Headwaters to Fifteenmile Creek		DO NUT SED	28.92
2736	Tenmile Creek	Headwaters to Fifteenmile Creek		DO NUT SED	27.15
2737	Blacks Creek	Headwaters to Blacks Creek Res.		DO NUT SED	13.22
5640	Lake Lowell		*ADD*	DO NUT	.00
		NEW MILES	6.44	TOTAL MILES OF LISTED STREAMS	127.33
HUC#17050123					
2884	Cascade Reservoir			DO NUT pH	.00
2895	Boulder Creek	Headwaters to Cascade Reservoir		DO QALT NUT SED TEMP	20.46
2898	Mud Creek	Headwaters to Cascade Reservoir	BAC	DO NH3 NUT SED	12.04
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	32.50
HUC#17050124					
2834	Weiser River	Galloway Dam to Snake River	BAC	DO NUT SED TEMP	12.39
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	12.39
HUC#17050201					

1998 303(d) List: Segments Listed for Dissolved Oxygen as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)							STREAM MILES
2818	Brownlee Reservoir			DO	MTH	NUT	pH	SED			.00
2819	Snake River	Weiser (town) to Brownlee Dam		DO		NUT	pH	SED			33.87
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					33.87
HUC#17060203											
5239	Williams Lake		*ADD*	DO		NUT					.00
		NEW MILES	1.21			TOTAL MILES OF LISTED STREAMS					.00
HUC#17060305											
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC	DO	HALT	NH3 NUT		SED	TEMP		31.19
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC	DO	QALT HALT	NH3 NUT		SED	TEMP		18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	BAC	DO	QALT HALT			SED	TEMP		12.37
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					61.74
HUC#17060306											
3137	Long Hollow Creek	Headwaters to Little Canyon	BAC	DO	QALT HALT	NUT		SED			16.03
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO	QALT HALT	MTU NH3 NUT	O/G ORG PST	SED			9.08
3141	Lindsay Creek	Boundary to Clearwater River	BAC	DO	QALT HALT	NUT		SED	TEMP		7.35
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	BAC	DO	QALT HALT	NUT		SED	TEMP		16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO	QALT HALT	NUT	ORG PST	SED	TEMP		19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC	DO	QALT HALT	NUT		SED	TEMP		5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO	QALT HALT	NH3 NUT	ORG	SED	TEMP		9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO	QALT HALT	NH3 NUT	O/G ORG PST	SED	TEMP		14.13
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO	QALT HALT	NH3 NUT	O/G	SED	TEMP		6.08
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO	QALT HALT	NH3 NUT	O/G	SED	TEMP		27.00
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO	QALT HALT	NUT	O/G	SED	TEMP		28.44
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO	QALT HALT	NH3 NUT	O/G ORG PST	SED	TEMP		8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO	QALT HALT	NH3 NUT	O/G	SED	TEMP		7.30
4010	Pine Creek	Headwaters to Boundary	BAC	DO	QALT HALT	NUT		SED	TEMP		10.01
7143	Winchester Lake		BAC	DO	QALT HALT	NUT	PST	SED	TEMP		.00
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO	QALT HALT	NH3	ORG PST		TEMP		19.45
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					204.00
HUC#17060308											
3190	Elk Creek Reservoir		BAC	DO	QALT HALT	NUT		SED	TEMP		.00

1998 303(d) List: Segments Listed for Dissolved Oxygen as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
3197	Breakfast Creek	Headwaters to Clearwater R.		DO QALT HALT SED	8.84
3198	Floodwood Creek	Headwaters to Breakfast Creek		DO QALT HALT SED	13.59
3199	Stoney Creek	Headwaters to Breakfast Creek		DO QALT HALT SED	12.23
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	34.66

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 101
TOTAL MILES NEW TO 1998 303(d) LIST: 23.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 1,145.39

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#16010102					
2273	Bear River	Wyoming Line to Wardboro		QALT NUT SED	31.10
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	31.10
HUC#16010202					
2231	Bear River	Highway 91 to Utah Line		QALT SED	15.49
2232	Bear River	Mink Creek to Highway 91		QALT NUT SED	11.50
2235	Bear River	Cove Power Plant to Oneida		QALT NUT SED	24.04
2236	Bear River	Alexander Dam to Cove Power		QALT	12.17
2237	Cub Creek	Sugar Creek to Utah line		QALT NUT SED	9.06
2238	Weston Creek	Headwaters to Bear River		QALT NUT SED	19.60
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	91.86
HUC#17010213					
3471	Clark Fork	Montana line to Pend Oreille Lake		QALT HALT MTU TDG	11.56
3472	Johnson Creek	Headwaters to Clark Fork		QALT HALT SED	5.95
3476	Wellington Creek	Falls to Lightning Creek		QALT SED	2.41
7473	East Fork Creek	Headwaters to Lightning Creek		QALT HALT SED TEMP	3.58
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	23.50
HUC#17010214					
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary		QALT SED TDG TEMP	21.81
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	21.81
HUC#17010215					
3415	East River	North Fk East River to Priest River		DO QALT SED TEMP	2.43
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	2.43
HUC#17010216					
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary		QALT SED TDG TEMP	1.64
5657	Pend Oreille River	HUC boundary to Washington line		QALT SED TDG TEMP	3.03
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	4.67
HUC#17010301					
3481	North Fork Coeur d'Alene	Yellowdog Creek to S Fk CdA River		QALT HALT SED	39.31

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
	River				
3482	North Fork Coeur d'Alene River	Tepee Creek to Yellowdog Creek		QALT HALT SED	11.82
3485	Little North Fork Coeur d'Alene River	Headwaters to Laverne Creek		QALT HALT SED	21.63
3495	Steamboat Creek	Conflu of Barrymore & Steamboat to N Fk CdA River		QALT HALT SED	2.60
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	75.36
HUC#17040104					
2004	Snake River	Palisades Dam to Irwin		QALT	7.28
5645	Snake River	Irwin to HUC boundary		QALT	32.41
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	39.69
HUC#17040201					
2003	Snake River	HUC boundary to Heise		QALT	3.62
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	3.62
HUC#17040204					
2127	Spring Creek	Wyoming line to Teton River		QALT SED TEMP	12.60
2129	Packsaddle Creek	Headwaters to Teton River		QALT SED	9.88
2130	Horseshoe Creek	Confluence of N & S Fks to Teton River		QALT	7.03
2134	Darby Creek	Highway 33 to Teton River		QALT SED	3.48
2136	Fox Creek	Wyoming line to Teton River		QALT SED TEMP	9.18
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	42.17
HUC#17040205					
2051	Sellars Creek	Confluence of South Fk Sellars to Willow Creek		QALT SED TEMP	4.22
2057	Seventy Creek	Headwaters to Willow Creek		QALT SED TEMP	3.06
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	7.28
HUC#17040206					
2348	Snake River	Bonneville County line to Ferry But		DO QALT NUT SED	40.44
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	40.44

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
HUC#17040207							
2303	Blackfoot River	Blackfoot Dam to Wolverine Creek		QALT	NUT	SED	40.35
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		40.35
HUC#17040208							
2327	Portneuf River	Downey Canal return to Lava Hot Springs	BAC	QALT	NUT	SED	18.19
2328	Portneuf River	Chesterfield Reservoir to Downey Canal return	BAC	QALT	NUT	SED	13.38
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		31.57
HUC#17040209							
2359	Milner Lake			DO QALT	NUT O/G	SED	.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		.00
HUC#17040210							
2430	Raft River	Malta to Snake River	BAC	DO QALT	NH3 NUT	SED	33.93
2431	Raft River	Utah Line to Malta	BAC	DO QALT		SAL SED TEMP	42.19
2432	Sublett Creek	Sublett Res to lower boundaries	*ADD* BAC	DO QALT	NUT	SED	8.24
2434	Sublett Reservoir			DO QALT	NUT	SED	.00
		NEW MILES	2.23		TOTAL MILES OF LISTED STREAMS		84.36
HUC#17040211							
2446	Lower Goose Creek Reservoir			DO QALT	NUT	SED	.00
2447	Goose Creek	State line to Lower Goose Creek Reservoir	BAC	DO QALT	NUT	SED TEMP	15.42
2449	Trapper Creek	Ibex Hollow to Lower Goose Creek Reservoir	BAC	DO QALT		SED	7.62
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		23.04
HUC#17040212							
2370	Bliss Reservoir		BAC	DO QALT	NH3	SED	.00
2372	Lower Salmon Falls Reservoir			DO QALT		SED	.00
2373	Upper Salmon Falls Reservoir			DO QALT		SED	.00
2375	Shoshone Falls Reservoir			DO QALT		SED	.00
2378	Snake River	Milner Dam to Murtaugh	BAC	DO QALT		SED TEMP	8.53
2380	Pioneer Reservoir		BAC	DO QALT	NH3 NUT	SED TEMP	.00
2384	Billingsley Creek	Headwaters to Snake River		DO QALT	NH3	SED	7.57

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)						STREAM MILES
2386	Sand Springs Creek	Headwaters to Snake River		QALT		NUT		SED		.23
2389	Blind Canyon	Headwaters to Snake River	BAC	DO	QALT	NH3	NUT	SED		.72
2398	Crystal Springs	Headwaters to Snake River		DO	QALT	NH3	NUT	SED		.20
2400	Rock Creek	Rock Creek (town) to Snake	BAC	DO	QALT	NH3	NUT O/G	SED		26.07
2403	Cottonwood Creek	Headwaters to Rock Creek	BAC		QALT	NH3	NUT PST	SED		6.57
2404	McMullen Creek	Headwaters to Cottonwood Creek	BAC	DO	QALT		NUT	SED	TEMP	15.70
2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake	BAC		QALT			SED	TEMP	10.19
2411	West Fork Dry Creek	Headwaters to Dry Creek	BAC	DO	QALT		NUT	SED		6.22
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			82.00
HUC#17040213										
2462	Cedar Creek	Cedar Creek Res to Salmon Falls Cr	BAC	DO	QALT		NUT	SED		19.55
2463	Cedar Creek Reservoir		BAC	DO	QALT	NH3	NUT	SED		.00
2468	Shoshone Creek	Cottonwood Creek to Big Creek	BAC	DO	QALT		NUT	SED	TEMP	6.44
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			25.99
HUC#17040214										
2191	Camas Creek	Spring Creek to Highway 91		QALT	HALT		NUT	SED	TEMP	37.21
2193	Beaver Creek	Dubois to Camas Creek		QALT	HALT		NUT	SED	TEMP	15.44
2194	Beaver Creek	Spencer to Dubois		QALT	HALT		NUT	SED	TEMP	16.90
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			69.55
HUC#17040215										
2206	Medicine Lodge Creek	Middle Creek to Small Creek		QALT				SED	TEMP	5.47
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			5.47
HUC#17040216										
2154	Birch Creek	Reno Ditch to Sinks		QALT	HALT		NUT	SED		16.84
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			16.84
HUC#17040217										
2145	Wet Creek	Coal Creek to Little Lost River		QALT				SED	TEMP	15.89
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			15.89
HUC#17040218										
2161	Big Lost River	Moore Diversion to US 26		DO	QALT		NUT	SED	TEMP	19.20

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
2167	Spring Creek	Springs to Big Lost River		DO QALT	NUT	SED TEMP	17.11
2168	Antelope Creek	Spring Creek to Big Lost River		QALT		SED TEMP	16.19
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			52.50
HUC#17040219							
2476	Big Wood River	Little Wood River to Interstate	BAC	DO QALT	NH3 NUT	SED	9.29
2477	Big Wood River	Highway 75 to Little Wood River	BAC	DO QALT	NH3 NUT	SED	32.65
2478	Big Wood River	Magic Reservoir to Highway 75	*ADD*	QALT	NUT	SED	28.39
2482	Big Wood River	Glendale Diversion to T1NR18ES35		QALT			5.45
2483	Big Wood River	Trail Creek to Glendale Diversion		QALT			20.84
2491	Croy Creek	Elk Creek to Big Wood River		QALT	NUT	SED	5.77
		NEW MILES	2.67	TOTAL MILES OF LISTED STREAMS			102.39
HUC#17040220							
2537	Soldier Creek	Baseline to Camas Creek	BAC	DO QALT	NUT	SED	6.70
2539	Mormon Reservoir		BAC	DO QALT	NUT	SED	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			6.70
HUC#17040221							
2511	Little Wood River	Richfield (town) to Big Wood River	BAC	DO QALT	NUT	SED	50.76
2513	Little Wood River	East Canal Diversion to Silver Cr	BAC	DO QALT	NUT	SED	14.12
2515	Little Wood River Reservoir		BAC	DO QALT	NUT	SED	.00
2521	Dry Creek	Headwaters to Little Wood River	BAC	DO QALT	NUT	SED	13.87
2522	Fish Creek	Fish Creek Reservoir to Carey Lake	BAC	DO QALT	NUT	SED	12.73
2523	Fish Creek Reservoir		BAC	DO QALT	NUT	SED	.00
5650	Fish Creek	Headwaters to Fish Creek Reservoir	*ADD* BAC	DO QALT	NUT	SED	12.95
		NEW MILES	12.95	TOTAL MILES OF LISTED STREAMS			104.43
HUC#17050101							
2424	Little Canyon Creek	Headwaters to Snake River		QALT		SED	28.77
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			28.77
HUC#17050102							
2549	Bruneau River	Hot Creek to CJ Strike Reservoir		QALT	NUT	SED TEMP	14.44
2551	Jacks Creek	Little Jacks Cr to CJ Strike Res		DO QALT	NUT	SED TEMP	12.31
2555	Wickahoney Creek	2.5 miles below headwaters to Big Jacks		QALT		SED	15.55

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)					STREAM MILES
		Creek							
2557	Hot Creek	Headwaters to Bruneau River	BAC	QALT			SED		21.79
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					64.09
HUC#17050103									
2668	Snake River	Swan Falls to Boise River	BAC	DO QALT		NUT	pH	SED	54.70
2672	McBride Creek	Headwaters to Oregon Line		QALT				SED TEMP	11.81
2679	Sinker Creek	Diamond Creek to Snake River	*ADD*	QALT				SED TEMP	10.77
2680	Castle Creek	T5SR1ES28 to Snake River		QALT				SED TEMP	12.78
6671	Succor Creek	Headwaters to Oregon Line		QALT				SED TEMP	22.19
6681	Pickett Creek	Headwaters to T5SR1W32		QALT				SED TEMP	11.52
		NEW MILES	8.51	TOTAL MILES OF LISTED STREAMS					123.77
HUC#17050104									
2613	Red Canyon	Headwaters to Owyhee River		QALT				SED TEMP	5.22
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					5.22
HUC#17050105									
2632	South Fork Owyhee River	Nevada Line to Owyhee River		QALT				SED TEMP	32.33
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					32.33
HUC#17050107									
2640	Middle Fork Owyhee River	Headwaters to Oregon Line		QALT				SED TEMP	8.64
2642	Squaw Creek	Headwaters to Oregon Line		QALT				SED TEMP	13.05
2644	Juniper Creek	Headwaters to N Fk Owyhee River		QALT				SED TEMP	11.72
2645	Pleasant Valley Creek	Headwaters to N Fk Owyhee River		QALT				SED TEMP	10.79
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					44.20
HUC#17050108									
2656	Rock Creek	Headwaters to Triangle Reservoir		QALT				SED TEMP	17.28
2657	Meadow Creek	Headwaters to Rock Creek		QALT				TEMP	11.93
2660	Louse Creek	Headwaters to Jordan Creek		QALT	MTU		pH	SED	9.79
6656	Louisa Creek	Headwaters to Triangle Reservoir		QALT				SED TEMP	8.16
6661	Cow Creek	Headwaters to Oregon Line		QALT				SED TEMP	12.28
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					59.44

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17050114					
2729	Boise River	Lucky Peak to Barber Diversion		QALT	5.26
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	5.26
HUC#17050123					
2895	Boulder Creek	Headwaters to Cascade Reservoir		DO QALT NUT SED TEMP	20.46
6882	North Fork Payette River	Clear Creek to Smiths Ferry		QALT HALT NUT SED TEMP	9.53
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	29.99
HUC#17050124					
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	BAC	QALT NUT SED TEMP	24.65
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	24.65
HUC#17050201					
2825	Dennett Creek	Headwaters to Snake River		QALT SED TEMP	6.46
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	6.46
HUC#17060108					
3122	Deep Creek	Headwaters to Palouse River	BAC	QALT HALT NUT SED TEMP	12.16
3123	Flannigan Creek	Headwaters to Palouse River	BAC	QALT HALT NUT SED TEMP	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	BAC	QALT HALT NUT SED TEMP	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	BAC	QALT HALT NUT SED TEMP	4.45
3126	Hatter Creek	Headwaters to Palouse River	BAC	QALT HALT NUT SED TEMP	9.79
3128	Big Creek	Headwaters to Palouse River	BAC	QALT HALT NUT SED TEMP	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	BAC	QALT HALT NUT SED TEMP	13.42
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	67.04
HUC#17060201					
3013	Challis Creek	Forest Boundary to Salmon River		QALT NUT SED	9.35
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	9.35
HUC#17060202					
3102	Patterson Creek	Inyo Creek to Pahsimeroi River		QALT SED	18.79
3106	Morse Creek	Forest Boundary to Pahsimeroi River		QALT NUT SED	5.80
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	24.59

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17060204					
3082	Mill Creek	Forest boundary to Lemhi River		QALT NUT SED	5.35
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	5.35
HUC#17060205					
2805	Elkhorn Creek	Headwaters to Middle Fk Salmon Rive		QALT SED TEMP	7.41
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	7.41
HUC#17060209					
3325	Maloney Creek	Headwaters to Salmon River	BAC	QALT NUT SED TEMP	10.14
3326	Deep Creek	Headwaters to Salmon River	BAC	QALT HALT NUT SED TEMP	11.66
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	21.80
HUC#17060305					
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT NH3 NUT SED TEMP	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT SED TEMP	12.37
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	30.55
HUC#17060306					
3137	Long Hollow Creek	Headwaters to Little Canyon	BAC	DO QALT HALT NUT SED	16.03
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT MTU NH3 NUT O/G ORG PST SED	9.08
3141	Lindsay Creek	Boundary to Clearwater River	BAC	DO QALT HALT NUT SED TEMP	7.35
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	BAC	DO QALT HALT NUT SED TEMP	16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO QALT HALT NUT ORG PST SED TEMP	19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC	DO QALT HALT NUT SED TEMP	5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT ORG SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G ORG PST SED TEMP	14.13
3150	Potlatch River	Headwaters to Bear Creek	BAC	QALT HALT NUT SED TEMP	40.47
3155	Pine Creek	Headwaters to Potlatch River	BAC	QALT HALT NUT SED TEMP	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	BAC	QALT HALT NUT SED TEMP	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	BAC	QALT HALT NUT SED TEMP	2.14
3159	Moose Creek	Headwaters to Potlatch River	BAC	QALT HALT NUT pH SED TEMP	5.76
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO QALT HALT NH3 NUT O/G SED TEMP	6.08

1998 303(d) List: Segments Listed for Flow Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)									STREAM MILES
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	BAC		QALT	HALT		NUT			SED	TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT	O/G		SED	TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	BAC		QALT	HALT		NUT			SED	TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO	QALT	HALT		NUT	O/G		SED	TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	BAC		QALT	HALT		NUT			SED	TEMP	13.33
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT	O/G	ORG PST	SED	TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO	QALT	HALT	NH3	NUT	O/G		SED	TEMP	7.30
4010	Pine Creek	Headwaters to Boundary	BAC	DO	QALT	HALT		NUT			SED	TEMP	10.01
5125	Middle Potlatch Creek	Headwaters to Potlatch River	BAC		QALT	HALT		NUT			SED	TEMP	16.42
7143	Winchester Lake		BAC	DO	QALT	HALT		NUT		PST	SED	TEMP	.00
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO	QALT	HALT	NH3		ORG	PST		TEMP	19.45
		NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS					321.84
HUC#17060307													
3225	Osier Creek	Headwaters to Moose Creek			QALT	HALT					SED	TEMP	8.09
		NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS					8.09
HUC#17060308													
3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT			SED	TEMP	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT			SED	TEMP	20.85
3190	Elk Creek Reservoir		BAC	DO	QALT	HALT		NUT			SED	TEMP	.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT			SED	TEMP	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT		NUT			SED	TEMP	7.36
3197	Breakfast Creek	Headwaters to Clearwater R.		DO	QALT	HALT					SED		8.84
3198	Floodwood Creek	Headwaters to Breakfast Creek		DO	QALT	HALT					SED		13.59
3199	Stoney Creek	Headwaters to Breakfast Creek		DO	QALT	HALT					SED		12.23
		NEW MILES	0.00					TOTAL MILES OF LISTED STREAMS					81.81

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 159
TOTAL MILES NEW TO 1998 303(d) LIST: 26.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 2,047.02

1998 303(d) List: Segments Listed for Habitat Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#16010102					
2275	Preuss Creek	Forest Service boundary to Thomas Fork		HALT SED	3.67
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	3.67
HUC#17010213					
3471	Clark Fork	Montana line to Pend Oreille Lake		QALT HALT MTU TDG	11.56
3472	Johnson Creek	Headwaters to Clark Fork		QALT HALT SED	5.95
7473	East Fork Creek	Headwaters to Lightning Creek		QALT HALT SED TEMP	3.58
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	21.09
HUC#17010214					
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC DO	HALT NUT PST SED	19.37
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	19.37
HUC#17010301					
3481	North Fork Coeur d'Alene River	Yellowdog Creek to S Fk CdA River		QALT HALT SED	39.31
3482	North Fork Coeur d'Alene River	Tepee Creek to Yellowdog Creek		QALT HALT SED	11.82
3485	Little North Fork Coeur d'Alene River	Headwaters to Laverne Creek		QALT HALT SED	21.63
3495	Steamboat Creek	Conflu of Barrymore & Steamboat to N Fk CdA River		QALT HALT SED	2.60
3500	Prichard Creek	Barton Gulch to N Fk CdA River	BAC DO	HALT NUT O/G SED TEMP	10.20
3508	Tepee Creek	Headwaters to Big Elk Creek		HALT SED	4.88
5617	West Fork Eagle Creek	Headwaters to Eagle Creek	*ADD*	HALT MTU pH SED	9.28
7501	Cougar Gulch	Headwaters to Prichard Creek		HALT SED	2.25
		NEW MILES	9.28	TOTAL MILES OF LISTED STREAMS	101.97
HUC#17010302					
3525	Canyon Creek	Gorge Gulch to South Fk CdA River		HALT MTU SED	6.90
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	6.90
HUC#17010303					
3529	Coeur d'Alene River	Black Lake to Thompson Lake		HALT MTU pH SED	4.21
3530	Thompson Creek	Headwaters to Cda River		HALT SED	4.64

1998 303(d) List: Segments Listed for Habitat Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS				POLLUTANT(S)					STREAM MILES
3534	Fourth of July Creek	Headwaters to CdA River			HALT				SED			7.15
3535	Latour Creek	Headwaters to CdA River	BAC		HALT				SED	TEMP		16.31
3541	Wolf Lodge Creek	Headwaters to CdA Lake	BAC		HALT		NUT		SED			10.30
3543	Fernan Creek	Fernan Lake to CdA Lake	BAC	DO	HALT		NUT		SED			.68
3545	Cougar Creek	North Fk Cougar Creek to CdA Lake			HALT		NUT		SED			4.04
3546	Kid Creek	Headwaters to CdA Lake			HALT		NUT		SED			4.06
3547	North Fork Mica Creek	Headwaters to CdA Lake	BAC	DO	HALT		NUT		SED			7.74
4015	Coeur d'Alene River	Cave Lake to Black Lake			HALT	MTU		pH	SED			4.00
4016	Coeur d'Alene River	Fortier Creek to Robinson Creek			HALT	MTU		pH	SED			.80
4017	Coeur d'Alene River	Fourth of July Creek to Fortier Cr			HALT	MTU		pH	SED			10.50
4018	Coeur d'Alene River	French Gulch to Skeel Gulch			HALT	MTU		pH	SED			4.21
4019	Coeur d'Alene River	Latour Creek to Fourth of July Cr			HALT	MTU		pH	SED			4.09
4020	Coeur d'Alene River	Robinson Creek to Cave Lake			HALT	MTU		pH	SED			1.57
4021	Coeur d'Alene River	S Fk CdA River to French Gulch			HALT	MTU		pH	SED			2.13
4022	Coeur d'Alene River	Skeel Gulch to Latour Creek			HALT	MTU		pH	SED			1.16
4023	Coeur d'Alene River	Thompson Lake to CdA Lake		DO	HALT	MTU		pH	SED	TEMP		4.19
7535	Baldy Creek	Headwaters to Latour Creek	BAC		HALT				SED	TEMP		5.17
7536	Larch Creek	Headwaters to Latour Creek	BAC		HALT				SED	TEMP		1.44
7541	Marie Creek	Searchlight Creek to Wolf Lodge Creek			HALT							1.04
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS					99.43
HUC#17010304												
3579	Saint Maries River	Mashburn (town) to St. Joe River			HALT		NUT		SED			23.74
3585	Santa Creek	Headwaters to St. Maries River		DO	HALT		NUT		SED			15.86
3587	Charlie Creek	Headwaters to Santa Creek			HALT				SED			6.76
3589	Tyson Creek	North Fk Tyson Creek to St. Maries River			HALT				SED			1.99
3591	Carpenter Creek	Headwaters to St. Maries River			HALT				SED			8.69
3593	Emerald Creek	Conflu of E & W Fks to St. Maries R			HALT				SED	TEMP		3.40
3594	Middle Fork Saint Maries River	Headwaters to St. Maries River			HALT				SED			14.22
3596	Gold Center Creek	Windy Creek to Middle Fk St. Maries River			HALT				SED	TEMP		2.12
3622	Gold Creek	East Fk Gold Creek to St. Joe River			HALT		NUT		SED	TEMP		1.59
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS					78.37
HUC#17010306												
3566	Hangman Creek	Headwaters to IR Boundary			HALT		NUT		SED			4.21

1998 303(d) List: Segments Listed for Habitat Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			4.21
HUC#17040204							
2116	Teton River	Highway 33 to Bitch Creek		HALT	NUT	SED	10.10
2117	Teton River	Trail Creek to Highway 33		HALT		SED	20.00
2118	Teton River	Headwaters to Trail Creek		HALT			2.65
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			32.75
HUC#17040210							
2438	Cassia Creek	Connor Creek to Raft River		HALT		SED	12.74
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			12.74
HUC#17040214							
2191	Camas Creek	Spring Creek to Highway 91		QALT HALT	NUT	SED TEMP	37.21
2193	Beaver Creek	Dubois to Camas Creek		QALT HALT	NUT	SED TEMP	15.44
2194	Beaver Creek	Spencer to Dubois		QALT HALT	NUT	SED TEMP	16.90
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			69.55
HUC#17040215							
2210	Edie Creek	Headwaters to Medicine Lodge Creek		HALT	NUT	SED	7.72
2211	Irving Creek	Headwaters to Medicine Lodge Creek		HALT	NUT	SED	6.93
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			14.65
HUC#17040216							
2154	Birch Creek	Reno Ditch to Sinks		QALT HALT	NUT	SED	16.84
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			16.84
HUC#17040218							
2179	East Fork Big Lost River	Starhope Creek to Forks		HALT			15.64
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			15.64
HUC#17040219							
2487	Rock Creek	Headwaters to Magic Reservoir	BAC	HALT		SED TEMP	12.02
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			12.02

1998 303(d) List: Segments Listed for Habitat Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)				STREAM MILES
HUC#17050103								
2673	Jump Creek	Headwaters to Snake River		HALT				20.54
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				20.54
HUC#17050123								
6882	North Fork Payette River	Clear Creek to Smiths Ferry		QALT HALT	NUT	SED	TEMP	9.53
6897	Browns Pond			HALT				.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				9.53
HUC#17060108								
3122	Deep Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	12.16
3123	Flannigan Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	4.45
3126	Hatter Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	9.79
3128	Big Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	BAC	QALT HALT	NUT	SED	TEMP	13.42
3136	Cow Creek	Headwaters to Washington line		HALT	NUT		TEMP	18.50
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				85.54
HUC#17060201								
3035	Yankee Fork	Jordan Cr. to Salmon River		HALT		SED		9.00
3036	Yankee Fork	Fourth of July Creek to Jordan Creek		HALT		SED		2.92
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				11.92
HUC#17060207								
3352	Warren Creek	Headwaters to Wilderness Bo.		HALT				16.15
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				16.15
HUC#17060209								
3326	Deep Creek	Headwaters to Salmon River	BAC	QALT HALT	NUT	SED	TEMP	11.66
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				11.66
HUC#17060305								
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC	DO HALT	NH3 NUT	SED	TEMP	31.19

1998 303(d) List: Segments Listed for Habitat Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)							STREAM MILES
3290	South Fork Cottonwood Creek	Headwaters to Cottonwood Creek	BAC		HALT		NUT			TEMP	6.96
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC	DO	QALT	HALT	NH3	NUT	SED	TEMP	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	BAC	DO	QALT	HALT			SED	TEMP	12.37
5185	South Fork Clearwater River	Red River to Clearwater River				HALT			SED	TEMP	63.79
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				132.49
HUC#17060306											
3137	Long Hollow Creek	Headwaters to Little Canyon	BAC	DO	QALT	HALT		NUT	SED		16.03
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO	QALT	HALT	MTU	NH3 NUT O/G ORG PST	SED		9.08
3141	Lindsay Creek	Boundary to Clearwater River	BAC	DO	QALT	HALT		NUT	SED	TEMP	7.35
3142	Hatwai Creek	Headwaters to Clearwater River	BAC			HALT		NUT		TEMP	7.93
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	BAC	DO	QALT	HALT		NUT	SED	TEMP	16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO	QALT	HALT		NUT ORG PST	SED	TEMP	19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC	DO	QALT	HALT		NUT	SED	TEMP	5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT ORG	SED	TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT O/G ORG PST	SED	TEMP	14.13
3150	Potlatch River	Headwaters to Bear Creek	BAC		QALT	HALT		NUT	SED	TEMP	40.47
3155	Pine Creek	Headwaters to Potlatch River	BAC		QALT	HALT		NUT	SED	TEMP	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	BAC		QALT	HALT		NUT	SED	TEMP	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	BAC		QALT	HALT		NUT	SED	TEMP	2.14
3159	Moose Creek	Headwaters to Potlatch River	BAC		QALT	HALT		NUT pH	SED	TEMP	5.76
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO	QALT	HALT	NH3	NUT O/G	SED	TEMP	6.08
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	BAC		QALT	HALT		NUT	SED	TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT O/G	SED	TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	BAC		QALT	HALT		NUT	SED	TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO	QALT	HALT		NUT O/G	SED	TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	BAC		QALT	HALT		NUT	SED	TEMP	13.33
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3	NUT O/G ORG PST	SED	TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO	QALT	HALT	NH3	NUT O/G	SED	TEMP	7.30
3181	Sevenmile Creek	Headwaters to Lawyer Creek				HALT			SED		7.25
4010	Pine Creek	Headwaters to Boundary	BAC	DO	QALT	HALT		NUT	SED	TEMP	10.01
5125	Middle Potlatch Creek	Headwaters to Potlatch River	BAC		QALT	HALT		NUT	SED	TEMP	16.42
7143	Winchester Lake		BAC	DO	QALT	HALT		NUT PST	SED	TEMP	.00

1998 303(d) List: Segments Listed for Habitat Alteration as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)						STREAM MILES
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO QALT HALT	NH3	ORG	PST		TEMP	19.45
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS					337.02
HUC#17060307										
3225	Osier Creek	Headwaters to Moose Creek		QALT HALT				SED	TEMP	8.09
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS					8.09
HUC#17060308										
3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT			SED	TEMP	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT			SED	TEMP	20.85
3190	Elk Creek Reservoir		BAC	DO QALT HALT	NUT			SED	TEMP	.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT			SED	TEMP	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT			SED	TEMP	7.36
3197	Breakfast Creek	Headwaters to Clearwater R.		DO QALT HALT				SED		8.84
3198	Floodwood Creek	Headwaters to Breakfast Creek		DO QALT HALT				SED		13.59
3199	Stoney Creek	Headwaters to Breakfast Creek		DO QALT HALT				SED		12.23
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS					81.81

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 113
TOTAL MILES NEW TO 1998 303(d) LIST: 9.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 1,223.95

1998 303(d) List: Segments Listed for Mercury as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17050108								
2648	Jordan Creek	Williams Creek to Oregon Line	BAC	MTH	O/G	PST	SED	.77
2649	Jordan Creek	Headwaters to Williams Creek	BAC	MTH	O/G	PST	SED	31.48
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			32.25
HUC#17050201								
2818	Brownlee Reservoir		DO	MTH	NUT	pH	SED	.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			.00

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 3
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 32.25

1998 303(d) List: Segments Listed for Metals as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
HUC#16010201							
5121	Meadow Creek	Headwaters to North Creek		MTU		SED	3.14
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		3.14
HUC#17010104							
3391	Blue Joe Creek	Headwaters to Canadian border		MTU	pH	SED	6.38
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		6.38
HUC#17010213							
3471	Clark Fork	Montana line to Pend Oreille Lake		QALT HALT MTU		TDG	11.56
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		11.56
HUC#17010301							
5617	West Fork Eagle Creek	Headwaters to Eagle Creek	*ADD*	HALT MTU	pH	SED	9.28
		NEW MILES	9.28		TOTAL MILES OF LISTED STREAMS		9.28
HUC#17010302							
3513	South Fork Coeur d'Alene River	Big Creek to Pine Creek		MTU		SED	8.99
3514	South Fork Coeur d'Alene River	Pine Creek to Bear Creek		MTU		SED	1.79
3515	South Fork Coeur d'Alene River	Bear Creek to Coeur d'Alene River		MTU		SED	.44
3516	South Fork Coeur d'Alene River	Canyon Creek to Ninemile Creek		MTU		SED	.55
3517	South Fork Coeur d'Alene River	Ninemile Creek to Placer Creek		MTU		SED	.33
3518	South Fork Coeur d'Alene River	Placer Creek to Big Creek		MTU		SED	7.56
3519	Pine Creek	E Fk Pine Creek to S Fk CdA River		MTU		SED	5.28
3520	East Fork Pine Creek	Headwaters to Hunter Creek		MTU		SED	5.19
3521	East Fork Pine Creek	Hunter Creek to Pine Creek		MTU		SED	1.57
3524	Ninemile Creek	Headwaters to S Fk Coeur d'Alene R		MTU		SED	4.91
3525	Canyon Creek	Gorge Gulch to South Fk CdA River		HALT MTU		SED	6.90
5084	Government Gulch	Headwaters to S.Fk of CdA River		MTU		SED	3.53
5127	Moon Creek	Headwaters to S Fk CdA River		MTU		SED	4.07

1998 303(d) List: Segments Listed for Metals as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS				POLLUTANT(S)			STREAM MILES
5661	Milo Creek	Headwaters to mouth	*ADD*			MTU				2.56
		NEW MILES	2.56				TOTAL MILES OF LISTED STREAMS			53.67
HUC#17010303										
2001	Coeur d'Alene Lake					MTU				.00
3529	Coeur d'Alene River	Black Lake to Thompson Lake			HALT	MTU	pH	SED		4.21
4015	Coeur d'Alene River	Cave Lake to Black Lake			HALT	MTU	pH	SED		4.00
4016	Coeur d'Alene River	Fortier Creek to Robinson Creek			HALT	MTU	pH	SED		.80
4017	Coeur d'Alene River	Fourth of July Creek to Fortier Cr			HALT	MTU	pH	SED		10.50
4018	Coeur d'Alene River	French Gulch to Skeel Gulch			HALT	MTU	pH	SED		4.21
4019	Coeur d'Alene River	Latour Creek to Fourth of July Cr			HALT	MTU	pH	SED		4.09
4020	Coeur d'Alene River	Robinson Creek to Cave Lake			HALT	MTU	pH	SED		1.57
4021	Coeur d'Alene River	S Fk CdA River to French Gulch			HALT	MTU	pH	SED		2.13
4022	Coeur d'Alene River	Skeel Gulch to Latour Creek			HALT	MTU	pH	SED		1.16
4023	Coeur d'Alene River	Thompson Lake to CdA Lake		DO	HALT	MTU	pH	SED	TEMP	4.19
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			36.86
HUC#17010305										
3552	Spokane River	CdA Lake to Huetter				MTU			TEMP	3.45
3553	Spokane River	Huetter to Post Falls Bridge				MTU			TEMP	4.89
3554	Spokane River	Post Falls Bridge to WA border				MTU			TEMP	6.18
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			14.52
HUC#17050108										
2660	Louse Creek	Headwaters to Jordan Creek		QALT		MTU	pH	SED		9.79
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			9.79
HUC#17060101										
2912	Deep Creek	Red Ledge Mine to Snake River				MTU	pH	SED		2.09
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			2.09
HUC#17060201										
3031	Thompson Creek	Scheelite Jim mill site to Salmon River				MTU		SED		1.02
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			1.02
HUC#17060203										

1998 303(d) List: Segments Listed for Metals as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
2952	Bucktail Creek	Headwaters to S Fk Big Deer Creek		MTU	1.82
2967	Panther Creek	Blackbird Creek to Salmon River		MTU	24.55
2972	Big Deer Creek	Big Deer Cr. S.Fk to Panther Cr.		MTU pH SED	2.98
2977	Blackbird Creek	Blackbird Creek Reservoir to Panther Creek		MTU pH SED	5.97
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	35.32
HUC#17060208					
2934	East Fork South Fork Salmon River	Johnson Creek to Salmon River		MTU SED	14.47
2935	East Fork South Fork Salmon River	Sugar Creek to Johnson Creek		MTU SED	10.96
2936	East Fork South Fork Salmon River	Headwaters to Sugar Creek		MTU SED	7.04
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	32.47
HUC#17060306					
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT MTU NH3 NUT O/G ORG PST SED	9.08
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	9.08

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 43
TOTAL MILES NEW TO 1998 303(d) LIST: 12.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 225.18

1998 303(d) List: Segments Listed for Ammonia (NH3) as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17040210					
2430	Raft River	Malta to Snake River	BAC DO QALT	NH3 NUT SED	33.93
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	33.93
HUC#17040212					
2370	Bliss Reservoir		BAC DO QALT	NH3 SED	.00
2377	Snake River	Murtaugh to Twin Falls Reservoir	BAC DO	NH3 SED	11.65
2380	Pioneer Reservoir		BAC DO QALT	NH3 NUT SED TEMP	.00
2384	Billingsley Creek	Headwaters to Snake River	DO QALT	NH3 SED	7.57
2385	Riley Creek	Headwaters to Snake River	BAC DO	NH3 NUT SED	2.47
2389	Blind Canyon	Headwaters to Snake River	BAC DO QALT	NH3 NUT SED	.72
2395	Clear Springs	Headwaters to Snake River	DO	NH3 NUT SED	1.00
2398	Crystal Springs	Headwaters to Snake River	DO QALT	NH3 NUT SED	.20
2400	Rock Creek	Rock Creek (town) to Snake	BAC DO QALT	NH3 NUT O/G SED	26.07
2403	Cottonwood Creek	Headwaters to Rock Creek	BAC QALT	NH3 NUT PST SED	6.57
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	56.25
HUC#17040213					
2463	Cedar Creek Reservoir		BAC DO QALT	NH3 NUT SED	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17040219					
2476	Big Wood River	Little Wood River to Interstate	BAC DO QALT	NH3 NUT SED	9.29
2477	Big Wood River	Highway 75 to Little Wood River	BAC DO QALT	NH3 NUT SED	32.65
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	41.94
HUC#17050123					
2898	Mud Creek	Headwaters to Cascade Reservoir	BAC DO	NH3 NUT SED	12.04
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	12.04
HUC#17060305					
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC DO HALT	NH3 NUT SED TEMP	31.19
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC DO QALT HALT	NH3 NUT SED TEMP	18.18
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	49.37

1998 303(d) List: Segments Listed for Ammonia (NH3) as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17060306					
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT MTU NH3 NUT O/G ORG PST SED	9.08
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT ORG SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G ORG PST SED TEMP	14.13
3161	Pine Creek	Boundary to Clearwater River		NH3 NUT O/G SED	1.95
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO QALT HALT NH3 NUT O/G SED TEMP	6.08
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G SED TEMP	27.00
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G ORG PST SED TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO QALT HALT NH3 NUT O/G SED TEMP	7.30
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO QALT HALT NH3 ORG PST TEMP	19.45
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	102.69

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 26
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 296.22

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
HUC#16010102									
2273	Bear River	Wyoming Line to Wardboro			QALT	NUT		SED	31.10
2274	Thomas Fork	Wyoming Line to Bear River				NUT		SED	27.54
2276	Dry Creek	Headwaters to Thomas Fork				NUT		SED	8.68
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			67.32
HUC#16010201									
2253	Bear River	Wardboro to Alexander Reservoir				NUT		SED	69.86
2257	Pearl Creek	N Fk Pearl Cr to Bear River				NUT		SED	2.24
2259	Co-Op Creek	USFS boundary to Stauffer Creek				NUT		SED	3.41
2268	Saint Charles Creek	Lower IDL boundary to Refuge				NUT		SED	6.64
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			82.15
HUC#16010202									
2232	Bear River	Mink Creek to Highway 91			QALT	NUT		SED	11.50
2233	Bear River	Oneida Dam to Mink Creek				NUT		SED	6.83
2235	Bear River	Cove Power Plant to Oneida			QALT	NUT		SED	24.04
2237	Cub Creek	Sugar Creek to Utah line			QALT	NUT		SED	9.06
2238	Weston Creek	Headwaters to Bear River			QALT	NUT		SED	19.60
2240	Battle Creek	Headwaters to Bear River				NUT		SED	17.16
2246	Williams Creek	Right Fk Williams Cr to Bear River				NUT		SED	4.96
2248	Whiskey Creek	Headwaters to Bear River				NUT		SED	3.16
2249	Densmore Creek	Headwaters to Bear River				NUT		SED	9.01
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			105.32
HUC#16010204									
2289	Samaria Creek	Headwaters to Malad River				NUT		SED	9.21
2290	Devil Creek	Devil Creek Reservoir to Malad River				NUT		SED	18.46
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			27.67
HUC#17010214									
3438	Spirit Lake			DO		NUT		SED	.00
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC	DO	HALT	NUT	PST	SED	19.37
7442	Cocolalla Lake			DO		NUT			.00
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			19.37

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)				STREAM MILES
HUC#17010301								
3500	Prichard Creek	Barton Gulch to N Fk CdA River	BAC DO HALT	NUT O/G	SED	TEMP		10.20
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				10.20
HUC#17010303								
3541	Wolf Lodge Creek	Headwaters to CdA Lake	BAC HALT	NUT	SED			10.30
3543	Fernan Creek	Fernan Lake to CdA Lake	BAC DO HALT	NUT	SED			.68
3545	Cougar Creek	North Fk Cougar Creek to CdA Lake	HALT	NUT	SED			4.04
3546	Kid Creek	Headwaters to CdA Lake	HALT	NUT	SED			4.06
3547	North Fork Mica Creek	Headwaters to CdA Lake	BAC DO HALT	NUT	SED			7.74
7529	Black Lake			NUT				.00
7543	Fernan Lake		DO	NUT	SED			.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				26.82
HUC#17010304								
3579	Saint Maries River	Mashburn (town) to St. Joe River	HALT	NUT	SED			23.74
3582	Thorn Creek	Headwaters to St. Maries River		NUT	SED			10.62
3583	Alder Creek	Headwaters to St. Maries River	*ADD*	NUT	SED			11.98
3585	Santa Creek	Headwaters to St. Maries River	DO HALT	NUT	SED			15.86
3622	Gold Creek	East Fk Gold Creek to St. Joe River	HALT	NUT	SED	TEMP		1.59
		NEW MILES	6.98	TOTAL MILES OF LISTED STREAMS				63.79
HUC#17010305								
3560	Rathdrum Creek	Twin Lakes outlet to E Greenacres Diversion		NUT	SED			3.42
3561	Fish Creek	Washington line to Twin Lakes		NUT	SED			6.02
3562	Hauser Lake		DO	NUT				.00
7555	Hayden Lake			NUT	SED			.00
7561	Twin Lakes		BAC	NUT	SED			.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				9.44
HUC#17010306								
3565	Hangman Creek	IR Boundary to ID/WA line	BAC	NUT	SED			17.47
3566	Hangman Creek	Headwaters to IR Boundary	HALT	NUT	SED			4.21
3567	Little Hangman Creek	Headwaters to Washington Line		NUT				8.34
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				30.02

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)		STREAM MILES
HUC#17040204								
2113	North Fork Teton River	Forks to Henrys Fk, Snake R				NUT	SED	14.64
2116	Teton River	Highway 33 to Bitch Creek			HALT	NUT	SED	10.10
2119	Moody Creek	Forest Boundary to Teton River				NUT		25.38
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		50.12
HUC#17040205								
2044	Grays Lake Outlet	Grays Lake to Above Falls				NUT	SED	5.97
2045	Hell Creek	Headwaters to Grays Lake Outlet				NUT	SED	13.92
2047	Brockman Creek	Headwaters to Grays Lake Outlet				NUT	SED	12.68
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		32.57
HUC#17040206								
2346	American Falls Reservoir				DO	NUT	SED	.00
2348	Snake River	Bonneville County line to Ferry But			DO QALT	NUT	SED	40.44
2349	Bannock Creek	Headwaters to IR Boundary	BAC			NUT	SED	21.12
6351	Bannock Creek	IR Boundary to American Falls	BAC			NUT	SED	30.31
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		91.87
HUC#17040207								
2303	Blackfoot River	Blackfoot Dam to Wolverine Creek			QALT	NUT	SED	40.35
2306	Wolverine Creek	Wolverine to Blackfoot River				NUT	SED	6.36
6302	Blackfoot River	Wolverine Creek to Main Canal				NUT	SED	23.85
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		70.56
HUC#17040208								
2324	Portneuf River	Interstate 86 to IR Boundary	BAC			NUT	SED	1.74
2325	Portneuf River	Diversion, T9SR37ES22 to Marsh Cree	BAC			NUT	SED	18.45
2326	Portneuf River	Lava Hot Springs to PVC diversion	BAC			NUT	SED	8.01
2327	Portneuf River	Downey Canal return to Lava Hot Springs	BAC		QALT	NUT	SED	18.19
2328	Portneuf River	Chesterfield Reservoir to Downey Canal return	BAC		QALT	NUT	SED	13.38
2335	Marsh Creek	Calvin Road to Portneuf River				NUT	SED	48.40
2336	Garden Creek	Garden Creek Gap to Marsh Creek				NUT	SED	7.52
2337	Hawkins Creek	Headwaters to Marsh Creek				NUT	SED	15.05

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
2338	Birch Creek	Birch Creek Road to Marsh Creek			NUT	SED		6.47
2339	Cherry Creek	Forest Service boundary to Birch Creek			NUT	SED		7.41
5150	Portneuf River	IR Boundary to American Falls Reser	BAC		NUT	SED		4.33
6324	Portneuf River	Johnny Creek to Interstate 86	BAC		NUT O/G	SED		9.82
6325	Portneuf River	Marsh Creek to Johnny Creek	BAC		NUT	SED		12.90
6337	Hawkins Reservoir			DO	NUT			.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			171.67
HUC#17040209								
2359	Milner Lake			DO QALT	NUT O/G	SED		.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			.00
HUC#17040210								
2430	Raft River	Malta to Snake River	BAC	DO QALT	NH3 NUT	SED		33.93
2432	Sublett Creek	Sublett Res to lower boundaries	*ADD* BAC	DO QALT	NUT	SED		8.24
2434	Sublett Reservoir			DO QALT	NUT	SED		.00
		NEW MILES	2.23		TOTAL MILES OF LISTED STREAMS			42.17
HUC#17040211								
2446	Lower Goose Creek Reservoir			DO QALT	NUT	SED		.00
2447	Goose Creek	State line to Lower Goose Creek Reservoir	BAC	DO QALT	NUT	SED	TEMP	15.42
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			15.42
HUC#17040212								
2380	Pioneer Reservoir		BAC	DO QALT	NH3 NUT	SED	TEMP	.00
2385	Riley Creek	Headwaters to Snake River	BAC	DO	NH3 NUT	SED		2.47
2386	Sand Springs Creek	Headwaters to Snake River		QALT	NUT	SED		.23
2389	Blind Canyon	Headwaters to Snake River	BAC	DO QALT	NH3 NUT	SED		.72
2395	Clear Springs	Headwaters to Snake River		DO	NH3 NUT	SED		1.00
2398	Crystal Springs	Headwaters to Snake River		DO QALT	NH3 NUT	SED		.20
2400	Rock Creek	Rock Creek (town) to Snake	BAC	DO QALT	NH3 NUT O/G	SED		26.07
2403	Cottonwood Creek	Headwaters to Rock Creek	BAC	QALT	NH3 NUT PST	SED		6.57
2404	McMullen Creek	Headwaters to Cottonwood Creek	BAC	DO QALT	NUT	SED	TEMP	15.70
2405	Alpheus Creek	Headwaters to Snake River		DO	NUT	SED		.35
2411	West Fork Dry Creek	Headwaters to Dry Creek	BAC	DO QALT	NUT	SED		6.22
5173	Snake River	Cassia Gulch to Big Pilgrim Gulch			NUT	SED	TEMP	3.47

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			63.00
HUC#17040213								
2458	Salmon Falls Creek	Nevada line to Salmon Falls			NUT		TEMP	8.47
2459	Salmon Falls Creek	Bluegill Lake to Snake River	BAC	DO	NUT	SED		8.81
2462	Cedar Creek	Cedar Creek Res to Salmon Falls Cr	BAC	DO QALT	NUT	SED		19.55
2463	Cedar Creek Reservoir		BAC	DO QALT	NH3 NUT	SED		.00
2468	Shoshone Creek	Cottonwood Creek to Big Creek	BAC	DO QALT	NUT	SED	TEMP	6.44
2471	Cottonwood Creek	Headwaters to Shoshone Creek		DO	NUT	SED		11.19
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			54.46
HUC#17040214								
2190	Camas Creek	Highway 91 to Mud Lake			NUT	SED		15.58
2191	Camas Creek	Spring Creek to Highway 91		QALT HALT	NUT	SED	TEMP	37.21
2193	Beaver Creek	Dubois to Camas Creek		QALT HALT	NUT	SED	TEMP	15.44
2194	Beaver Creek	Spencer to Dubois		QALT HALT	NUT	SED	TEMP	16.90
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			85.13
HUC#17040215								
2210	Edie Creek	Headwaters to Medicine Lodge Creek		HALT	NUT	SED		7.72
2211	Irving Creek	Headwaters to Medicine Lodge Creek		HALT	NUT	SED		6.93
2212	Fritz Creek	Forks to Medicine Lodge Creek			NUT		TEMP	2.88
2213	Warm Creek	Headwaters to Divide Creek			NUT		TEMP	4.77
2215	Warm Springs Creek	Headwaters to Sinks			NUT	SED		19.42
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			41.72
HUC#17040216								
2154	Birch Creek	Reno Ditch to Sinks		QALT HALT	NUT	SED		16.84
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			16.84
HUC#17040218								
2161	Big Lost River	Moore Diversion to US 26		DO QALT	NUT	SED	TEMP	19.20
2164	Big Lost River	Chilly Buttes to Mackay Reservoir			NUT	SED		14.61
2167	Spring Creek	Springs to Big Lost River		DO QALT	NUT	SED	TEMP	17.11
2176	Twin Bridges Creek	Headwaters to Big Lost River			NUT	SED		9.09
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			60.01

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17040219					
2476	Big Wood River	Little Wood River to Interstate	BAC DO QALT	NH3 NUT SED	9.29
2477	Big Wood River	Highway 75 to Little Wood River	BAC DO QALT	NH3 NUT SED	32.65
2478	Big Wood River	Magic Reservoir to Highway 75	*ADD* QALT	NUT SED	28.39
2491	Croy Creek	Elk Creek to Big Wood River	QALT	NUT SED	5.77
		NEW MILES	2.67	TOTAL MILES OF LISTED STREAMS	76.10
HUC#17040220					
2537	Soldier Creek	Baseline to Camas Creek	BAC DO QALT	NUT SED	6.70
2539	Mormon Reservoir		BAC DO QALT	NUT SED	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	6.70
HUC#17040221					
2511	Little Wood River	Richfield (town) to Big Wood River	BAC DO QALT	NUT SED	50.76
2512	Little Wood River	Silver Creek to Richfield (town)		NUT SED	19.17
2513	Little Wood River	East Canal Diversion to Silver Cr		NUT SED	19.42
2515	Little Wood River Reservoir		BAC DO QALT	NUT SED	.00
2521	Dry Creek	Headwaters to Little Wood River	BAC DO QALT	NUT SED	13.87
2522	Fish Creek	Fish Creek Reservoir to Carey Lake	BAC DO QALT	NUT SED	12.73
2523	Fish Creek Reservoir		BAC DO QALT	NUT SED	.00
5650	Fish Creek	Headwaters to Fish Creek Reservoir	*ADD* BAC DO QALT	NUT SED	12.95
		NEW MILES	12.95	TOTAL MILES OF LISTED STREAMS	128.90
HUC#17050101					
2414	C J Strike Reservoir			NUT PST	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17050102					
2414	C J Strike Reservoir			NUT PST	.00
2549	Bruneau River	Hot Creek to CJ Strike Reservoir	QALT	NUT SED TEMP	14.44
2551	Jacks Creek	Little Jacks Cr to CJ Strike Res	DO QALT	NUT SED TEMP	12.31
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	26.75
HUC#17050103					
2668	Snake River	Swan Falls to Boise River	BAC DO QALT	NUT pH SED	54.70

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			54.70
HUC#17050114								
2726	Boise River	Notus (town) to Snake River	BAC		NUT	SED	TEMP	15.83
2727	Boise River	Star (town) to Notus (town)	BAC		NUT	SED		21.49
2730	Sand Hollow Creek	Headwaters to Boise River		DO	NUT	SED		23.67
2731	Indian Creek	New York Canal to Boise River		DO	NUT O/G	SED		16.62
2732	Indian Creek	Headwaters to New York Canal			NUT	SED		39.06
2733	Mason Creek	Headwaters to Boise River		DO	NUT	SED		17.75
2734	Fivemile Creek	Headwaters to Fifteenmile Creek		DO	NUT	SED		28.92
2736	Tenmile Creek	Headwaters to Fifteenmile Creek		DO	NUT	SED		27.15
2737	Blacks Creek	Headwaters to Blacks Creek Res.		DO	NUT	SED		13.22
5640	Lake Lowell		*ADD*	DO	NUT			.00
		NEW MILES	6.44		TOTAL MILES OF LISTED STREAMS			203.71
HUC#17050115								
2664	Snake River	Boise River to Weiser River	BAC		NUT	pH	SED	42.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			42.00
HUC#17050122								
2689	Payette River	Black Canyon Dam to Snake River	BAC		NUT		TEMP	39.22
2690	Black Canyon Reservoir				NUT O/G	SED		.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			39.22
HUC#17050123								
2884	Cascade Reservoir			DO	NUT	pH		.00
2893	Gold Fork River	Flat Creek to Cascade Reservoir			NUT	SED		5.36
2895	Boulder Creek	Headwaters to Cascade Reservoir		DO QALT	NUT	SED	TEMP	20.46
2898	Mud Creek	Headwaters to Cascade Reservoir	BAC	DO	NH3 NUT	SED		12.04
6882	North Fork Payette River	Clear Creek to Smiths Ferry		QALT HALT	NUT	SED	TEMP	9.53
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			47.39
HUC#17050124								
2834	Weiser River	Galloway Dam to Snake River	BAC	DO	NUT	SED	TEMP	12.39
2835	Weiser River	West Fk Weiser River to Little Weiser River			NUT	SED		20.84
2839	Cove Creek	Headwaters to Weiser River			NUT	SED		13.99

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
2840	Crane Creek	Crane Creek Res to Weiser River	BAC			NUT	SED		12.60
2841	Crane Creek Reservoir					NUT	SED		.00
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	BAC	QALT		NUT	SED	TEMP	24.65
2845	Little Weiser River	Indian Valley to Weiser River				NUT	SED		17.23
6834	Weiser River	Little Weiser River to Galloway Dam	BAC			NUT	SED		31.50
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			133.20
HUC#17050201									
2817	Snake River	Brownlee Dam to Oxbow Dam				NUT	PST	SED	11.59
2818	Brownlee Reservoir			DO	MTH	NUT	pH	SED	.00
2819	Snake River	Weiser (town) to Brownlee Dam		DO		NUT	pH	SED	33.87
2828	Warm Springs Creek	Headwaters to Snake River				NUT		SED	12.64
2829	Hog Creek	Headwaters to Snake River				NUT		SED	9.94
2830	Scott Creek	Headwaters to Snake River				NUT		SED	18.30
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			86.34
HUC#17060108									
3122	Deep Creek	Headwaters to Palouse River	BAC	QALT	HALT	NUT	SED	TEMP	12.16
3123	Flannigan Creek	Headwaters to Palouse River	BAC	QALT	HALT	NUT	SED	TEMP	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	BAC	QALT	HALT	NUT	SED	TEMP	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	BAC	QALT	HALT	NUT	SED	TEMP	4.45
3126	Hatter Creek	Headwaters to Palouse River	BAC	QALT	HALT	NUT	SED	TEMP	9.79
3128	Big Creek	Headwaters to Palouse River	BAC	QALT	HALT	NUT	SED	TEMP	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	BAC	QALT	HALT	NUT	SED	TEMP	13.42
3136	Cow Creek	Headwaters to Washington line			HALT	NUT		TEMP	18.50
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			85.54
HUC#17060201									
3013	Challis Creek	Forest Boundary to Salmon River		QALT		NUT	SED		9.35
3017	Garden Creek	Forest Boundary to Salmon River				NUT	SED		14.39
3019	Warm Spring Creek	Headwaters to Sink				NUT	SED		21.56
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			45.30
HUC#17060202									
3099	Pahsimeroi River	Dowton Lane to Salmon River				NUT	SED		9.19
3100	Pahsimeroi River	Mahogany Creek to Dowton Lane				NUT	SED		39.51

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
3106	Morse Creek	Forest Boundary to Pahsimeroi River		QALT	NUT	SED		5.80
3110	Big Creek	Forest Boundary to Pahsimeroi River			NUT	SED		11.99
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			66.49
HUC#17060203								
5239	Williams Lake		*ADD*	DO	NUT			.00
		NEW MILES	1.21		TOTAL MILES OF LISTED STREAMS			.00
HUC#17060204								
3067	Wimpey Creek	BLM boundary to Lemhi River			NUT	SED		6.62
3082	Mill Creek	Forest boundary to Lemhi River		QALT	NUT	SED		5.35
3095	Hawley Creek	First Diversion to Eighteenmile Creek			NUT	SED		6.09
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			18.06
HUC#17060209								
3325	Maloney Creek	Headwaters to Salmon River	BAC	QALT	NUT	SED	TEMP	10.14
3326	Deep Creek	Headwaters to Salmon River	BAC	QALT HALT	NUT	SED	TEMP	11.66
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			21.80
HUC#17060210								
2877	Big Creek	Headwaters to Little Salmon River			NUT	SED		15.12
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			15.12
HUC#17060305								
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC	DO HALT	NH3 NUT	SED	TEMP	31.19
3290	South Fork Cottonwood Creek	Headwaters to Cottonwood Creek	BAC	HALT	NUT		TEMP	6.96
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT	NH3 NUT	SED	TEMP	18.18
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			56.33
HUC#17060306								
3137	Long Hollow Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	NUT	SED		16.03
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	MTU NH3 NUT O/G ORG PST	SED		9.08
3141	Lindsay Creek	Boundary to Clearwater River	BAC	DO QALT HALT	NUT	SED	TEMP	7.35
3142	Hatwai Creek	Headwaters to Clearwater River	BAC	HALT	NUT		TEMP	7.93
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to	BAC	DO QALT HALT	NUT	SED	TEMP	16.32

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)							STREAM MILES
		Clearwater River									
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO	QALT	HALT	NUT	ORG	PST	SED TEMP	19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC	DO	QALT	HALT	NUT			SED TEMP	5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3 NUT	ORG		SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO	QALT	HALT	NH3 NUT	O/G	ORG PST	SED TEMP	14.13
3150	Potlatch River	Headwaters to Bear Creek	BAC		QALT	HALT	NUT			SED TEMP	40.47
3155	Pine Creek	Headwaters to Potlatch River	BAC		QALT	HALT	NUT			SED TEMP	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	BAC		QALT	HALT	NUT			SED TEMP	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	BAC		QALT	HALT	NUT			SED TEMP	2.14
3159	Moose Creek	Headwaters to Potlatch River	BAC		QALT	HALT	NUT		pH	SED TEMP	5.76
3161	Pine Creek	Boundary to Clearwater River					NH3 NUT	O/G		SED	1.95
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO	QALT	HALT	NH3 NUT	O/G		SED TEMP	6.08
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	BAC		QALT	HALT	NUT			SED TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3 NUT	O/G		SED TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	BAC		QALT	HALT	NUT			SED TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO	QALT	HALT	NUT	O/G		SED TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	BAC		QALT	HALT	NUT			SED TEMP	13.33
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO	QALT	HALT	NH3 NUT	O/G	ORG PST	SED TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO	QALT	HALT	NH3 NUT	O/G		SED TEMP	7.30
4010	Pine Creek	Headwaters to Boundary	BAC	DO	QALT	HALT	NUT			SED TEMP	10.01
5125	Middle Potlatch Creek	Headwaters to Potlatch River	BAC		QALT	HALT	NUT			SED TEMP	16.42
7143	Winchester Lake		BAC	DO	QALT	HALT	NUT		PST	SED TEMP	.00
7162	Bedrock Creek	Boundary to Clearwater River					NUT			SED	3.46
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				315.73
HUC#17060308											
3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT	NUT			SED TEMP	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT	NUT			SED TEMP	20.85
3190	Elk Creek Reservoir		BAC	DO	QALT	HALT	NUT			SED TEMP	.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT	NUT			SED TEMP	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	BAC		QALT	HALT	NUT			SED TEMP	7.36
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				47.15

1998 303(d) LIST SUMMARY

1998 303(d) List: Segments Listed for Nutrients as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST:			214		
TOTAL MILES NEW TO 1998 303(d) LIST:			32.00	TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES:	2,754.17

1998 303(d) List: Segments Listed for Oil or Gas as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17010301					
3500	Prichard Creek	Barton Gulch to N Fk CdA River	BAC DO HALT	NUT O/G SED TEMP	10.20
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	10.20
HUC#17040208					
6324	Portneuf River	Johnny Creek to Interstate 86	BAC	NUT O/G SED	9.82
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	9.82
HUC#17040209					
2359	Milner Lake		DO QALT	NUT O/G SED	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17040212					
2400	Rock Creek	Rock Creek (town) to Snake	BAC DO QALT	NH3 NUT O/G SED	26.07
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	26.07
HUC#17050108					
2648	Jordan Creek	Williams Creek to Oregon Line	BAC	O/G PST SED	9.49
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	9.49
HUC#17050114					
2731	Indian Creek	New York Canal to Boise River	DO	NUT O/G SED	16.62
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	16.62
HUC#17050122					
2690	Black Canyon Reservoir			NUT O/G SED	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17060306					
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	MTU NH3 NUT O/G ORG PST	SED		9.08
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO QALT HALT	NH3 NUT O/G ORG PST	SED	TEMP	14.13
3161	Pine Creek	Boundary to Clearwater River			NH3 NUT O/G	SED		1.95
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO QALT HALT	NH3 NUT O/G	SED	TEMP	6.08
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO QALT HALT	NH3 NUT O/G	SED	TEMP	27.00
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO QALT HALT	NUT O/G	SED	TEMP	28.44

1998 303(d) List: Segments Listed for Oil or Gas as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO QALT HALT	NH3 NUT O/G ORG PST	SED TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO QALT HALT	NH3 NUT O/G	SED TEMP	7.30
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		102.08

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 15
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 174.28

1998 303(d) List: Segments Listed for Organics as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17040207					
2305	Blackfoot River	Headwaters to Blackfoot Reservoir		ORG SED	41.16
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	41.16
HUC#17060306					
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT MTU NH3 NUT O/G ORG PST SED	9.08
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO QALT HALT NUT ORG PST SED TEMP	19.53
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT ORG SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G ORG PST SED TEMP	14.13
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G ORG PST SED TEMP	8.10
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO QALT HALT NH3 ORG PST TEMP	19.45
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	79.89

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 7
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 121.05

1998 303(d) List: Segments Listed for Pesticides as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17010214					
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC DO HALT	NUT PST SED	19.37
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	19.37
HUC#17040209					
2362	Snake River	Massacre Rocks to Lake Walcott	DO	PST SED	20.51
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	20.51
HUC#17040212					
2403	Cottonwood Creek	Headwaters to Rock Creek	BAC QALT	NH3 NUT PST SED	6.57
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	6.57
HUC#17050101					
2414	C J Strike Reservoir			NUT PST	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17050102					
2414	C J Strike Reservoir			NUT PST	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17050108					
2648	Jordan Creek	Williams Creek to Oregon Line	BAC	O/G PST SED	9.49
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	9.49
HUC#17050201					
2817	Snake River	Brownlee Dam to Oxbow Dam		NUT PST SED	11.59
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	11.59
HUC#17060306					
3140	Holes Creek	Headwaters to Little Canyon	BAC DO QALT HALT	MTU NH3 NUT O/G ORG PST SED	9.08
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC DO QALT HALT	NUT ORG PST SED TEMP	19.53
3149	Potlatch River	Bear Creek to Clearwater River	BAC DO QALT HALT	NH3 NUT O/G ORG PST SED TEMP	14.13
3179	Sixmile Creek	Headwaters to Clearwater River	BAC DO QALT HALT	NH3 NUT O/G ORG PST SED TEMP	8.10
7143	Winchester Lake		BAC DO QALT HALT	NUT PST SED TEMP	.00
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC DO QALT HALT	NH3 ORG PST TEMP	19.45

1998 303(d) List: Segments Listed for Pesticides as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES		ADDS	POLLUTANT(S)	STREAM MILES
			NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	70.29

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST:	12		
TOTAL MILES NEW TO 1998 303(d) LIST:	0.00	TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES:	137.82

1998 303(d) List: Segments Listed for pH as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS				POLLUTANT(S)				STREAM MILES
HUC#17010104											
3391	Blue Joe Creek	Headwaters to Canadian border				MTU		pH	SED		6.38
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				6.38
HUC#17010301											
5617	West Fork Eagle Creek	Headwaters to Eagle Creek	*ADD*		HALT	MTU		pH	SED		9.28
		NEW MILES	9.28				TOTAL MILES OF LISTED STREAMS				9.28
HUC#17010303											
3529	Coeur d'Alene River	Black Lake to Thompson Lake			HALT	MTU		pH	SED		4.21
4015	Coeur d'Alene River	Cave Lake to Black Lake			HALT	MTU		pH	SED		4.00
4016	Coeur d'Alene River	Fortier Creek to Robinson Creek			HALT	MTU		pH	SED		.80
4017	Coeur d'Alene River	Fourth of July Creek to Fortier Cr			HALT	MTU		pH	SED		10.50
4018	Coeur d'Alene River	French Gulch to Skeel Gulch			HALT	MTU		pH	SED		4.21
4019	Coeur d'Alene River	Latour Creek to Fourth of July Cr			HALT	MTU		pH	SED		4.09
4020	Coeur d'Alene River	Robinson Creek to Cave Lake			HALT	MTU		pH	SED		1.57
4021	Coeur d'Alene River	S Fk CdA River to French Gulch			HALT	MTU		pH	SED		2.13
4022	Coeur d'Alene River	Skeel Gulch to Latour Creek			HALT	MTU		pH	SED		1.16
4023	Coeur d'Alene River	Thompson Lake to CdA Lake		DO	HALT	MTU		pH	SED	TEMP	4.19
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				36.86
HUC#17050103											
2668	Snake River	Swan Falls to Boise River	BAC	DO	QALT		NUT	pH	SED		54.70
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				54.70
HUC#17050108											
2660	Louse Creek	Headwaters to Jordan Creek			QALT	MTU		pH	SED		9.79
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				9.79
HUC#17050115											
2664	Snake River	Boise River to Weiser River	BAC				NUT	pH	SED		42.00
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				42.00
HUC#17050123											
2884	Cascade Reservoir			DO			NUT	pH			.00

1998 303(d) List: Segments Listed for pH as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)				STREAM MILES
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				.00
HUC#17050201										
2818	Brownlee Reservoir			DO	MTH	NUT	pH	SED		.00
2819	Snake River	Weiser (town) to Brownlee Dam		DO		NUT	pH	SED		33.87
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				33.87
HUC#17060101										
2912	Deep Creek	Red Ledge Mine to Snake River			MTU		pH	SED		2.09
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				2.09
HUC#17060203										
2972	Big Deer Creek	Big Deer Cr. S.Fk to Panther Cr.			MTU		pH	SED		2.98
2977	Blackbird Creek	Blackbird Creek Reservoir to Panther Creek			MTU		pH	SED		5.97
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				8.95
HUC#17060306										
3159	Moose Creek	Headwaters to Potlatch River		BAC	QALT HALT	NUT	pH	SED	TEMP	5.76
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				5.76

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 22
TOTAL MILES NEW TO 1998 303(d) LIST: 9.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 209.68

1998 303(d) List: Segments Listed for Salinity as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)		STREAM MILES
HUC#17040210								
2431	Raft River	Utah Line to Malta	BAC	DO	QALT	SALSED	TEMP	42.19
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		42.19

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 1
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 42.19

1998 303(d) List: Segments Listed for Sediment as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)		STREAM MILES
HUC#16010102								
2273	Bear River	Wyoming Line to Wardboro		QALT		NUT	SED	31.10
2274	Thomas Fork	Wyoming Line to Bear River				NUT	SED	27.54
2275	Preuss Creek	Forest Service boundary to Thomas Fork		HALT			SED	3.67
2276	Dry Creek	Headwaters to Thomas Fork				NUT	SED	8.68
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		70.99
HUC#16010201								
2252	Alexander Reservoir						SED	.00
2253	Bear River	Wardboro to Alexander Reservoir				NUT	SED	69.86
2257	Pearl Creek	N Fk Pearl Cr to Bear River				NUT	SED	2.24
2259	Co-Op Creek	USFS boundary to Stauffer Creek				NUT	SED	3.41
2261	Ovid Creek	Confluence of North & Mill Creeks to Bear River					SED	14.47
2265	Snowslide Canyon	Headwaters to Montpelier Creek					SED	1.95
2268	Saint Charles Creek	Lower IDL boundary to Refuge				NUT	SED	6.64
5121	Meadow Creek	Headwaters to North Creek			MTU		SED	3.14
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		101.71
HUC#16010202								
2231	Bear River	Highway 91 to Utah Line		QALT			SED	15.49
2232	Bear River	Mink Creek to Highway 91		QALT		NUT	SED	11.50
2233	Bear River	Oneida Dam to Mink Creek				NUT	SED	6.83
2234	Oneida Narrows Reservoir						SED	.00
2235	Bear River	Cove Power Plant to Oneida		QALT		NUT	SED	24.04
2237	Cub Creek	Sugar Creek to Utah line		QALT		NUT	SED	9.06
2238	Weston Creek	Headwaters to Bear River		QALT		NUT	SED	19.60
2240	Battle Creek	Headwaters to Bear River				NUT	SED	17.16
2245	Cottonwood Creek	Trib 6.4 km upstream to Bear River					SED	4.00
2246	Williams Creek	Right Fk Williams Cr to Bear River				NUT	SED	4.96
2248	Whiskey Creek	Headwaters to Bear River				NUT	SED	3.16
2249	Densmore Creek	Headwaters to Bear River				NUT	SED	9.01
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS		124.81
HUC#16010204								
2285	Malad River	Headwaters to Pleasant View					SED	30.62

1998 303(d) List: Segments Listed for Sediment as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)					STREAM MILES
2289	Samaria Creek	Headwaters to Malad River				NUT		SED			9.21
2290	Devil Creek	Devil Creek Reservoir to Malad River				NUT		SED			18.46
2292	Little Malad River	Headwaters to Malad River						SED			24.23
2294	Wright Creek	Headwaters to Daniels Reservoir						SED			11.10
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					93.62
HUC#17010104											
3365	Boulder Creek	Headwaters to Kootenai River						SED			16.60
3368	Deep Creek	McArthur Lake to Kootenai River						SED			19.53
3371	Caribou Creek	Headwaters to Snow Creek						SED			9.92
3391	Blue Joe Creek	Headwaters to Canadian border				MTU		pH	SED		6.38
5051	Cow Creek	Headwaters to Smith Creek							SED		7.97
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					60.40
HUC#17010105											
3395	Moyie River	Moyie Falls dam to Kootenai River							SED		1.64
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					1.64
HUC#17010213											
3472	Johnson Creek	Headwaters to Clark Fork			QALT HALT			SED			5.95
3476	Wellington Creek	Falls to Lightning Creek			QALT			SED			2.41
7473	East Fork Creek	Headwaters to Lightning Creek			QALT HALT			SED	TEMP		3.58
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS					11.94
HUC#17010214											
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary			QALT			SED	TDG	TEMP	21.81
3438	Spirit Lake			DO		NUT		SED			.00
3440	Hoodoo Creek	Hoodoo Lake to Pend Orielle R						SED	TEMP		9.80
3441	Hoodoo Creek	Headwaters to Hoodoo Lake						SED	TEMP		7.20
3442	Cocolalla Creek	Cocolalla Lake to Pend Oreille Rive						SED	TEMP		8.21
3443	Cocolalla Creek	Headwaters to Cocolalla Lake						SED	TEMP		15.01
3449	Pack River	HWY 95 to Pend Oreille Lake	BAC	DO	HALT	NUT	PST	SED			19.37
3458	Caribou Creek	Headwaters to Pack River						SED			6.73
3465	Granite Creek	Headwaters to Pend Oreille Lake						SED			9.69
5135	North Fork Grouse Creek	BRC Creek to Grouse Creek						SED			2.25
7443	Fish Creek	Headwaters to Cocolalla Creek	BAC					SED	TEMP		5.09

1998 303(d) List: Segments Listed for Sediment as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS				POLLUTANT(S)			STREAM MILES
7615	Schweitzer Creek	Headwaters to Sand Creek	*ADD*					SED		4.85
		NEW MILES	4.85				TOTAL MILES OF LISTED STREAMS			110.01
HUC#17010215										
3407	Priest River	Upper West Branch to Pend Oreille R						SED		34.89
3415	East River	North Fk East River to Priest River		DO	QALT			SED	TEMP	2.43
3418	Binarch Creek	Headwaters to Priest River						SED		7.36
3421	Kalispell Creek	WA line to Priest Lake						SED	TEMP	8.14
3424	Reeder Creek	Headwaters to Priest Lake						SED	TEMP	7.63
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			60.45
HUC#17010216										
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary			QALT			SED	TDG TEMP	1.64
5657	Pend Oreille River	HUC boundary to Washington line			QALT			SED	TDG TEMP	3.03
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS			4.67
HUC#17010301										
3481	North Fork Coeur d'Alene River	Yellowdog Creek to S Fk CdA River			QALT	HALT		SED		39.31
3482	North Fork Coeur d'Alene River	Tepee Creek to Yellowdog Creek			QALT	HALT		SED		11.82
3485	Little North Fork Coeur d'Alene River	Headwaters to Laverne Creek			QALT	HALT		SED		21.63
3487	Copper Creek	Headwaters to Little N Fk CdA River						SED		5.56
3495	Steamboat Creek	Conflu of Barrymore & Steamboat to N Fk CdA River			QALT	HALT		SED		2.60
3499	Beaver Creek	Headwaters to N Fk CdA River						SED		11.52
3500	Prichard Creek	Barton Gulch to N Fk CdA River		BAC	DO	HALT	NUT O/G	SED	TEMP	10.20
3506	Yellow Dog Creek	Headwaters to N Fk CdA River						SED		5.12
3508	Tepee Creek	Headwaters to Big Elk Creek				HALT		SED		4.88
3511	Big Elk Creek	Headwaters to Tepee Creek						SED		5.63
5032	Burnt Cabin Creek	Headwaters to Little N Fk CdA River						SED		5.88
5054	Cub Creek	Headwaters to Lost Fork						SED		1.47
5617	West Fork Eagle Creek	Headwaters to Eagle Creek	*ADD*			HALT	MTU	pH	SED	9.28
7501	Cougar Gulch	Headwaters to Prichard Creek				HALT			SED	2.25
7504	Falls Creek	Headwaters to Shoshone Creek							SED	4.27

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WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)				STREAM MILES
		NEW MILES	9.28			TOTAL MILES OF LISTED STREAMS				141.42
HUC#17010302										
3513	South Fork Coeur d'Alene River	Big Creek to Pine Creek				MTU		SED		8.99
3514	South Fork Coeur d'Alene River	Pine Creek to Bear Creek				MTU		SED		1.79
3515	South Fork Coeur d'Alene River	Bear Creek to Coeur d'Alene River				MTU		SED		.44
3516	South Fork Coeur d'Alene River	Canyon Creek to Ninemile Creek				MTU		SED		.55
3517	South Fork Coeur d'Alene River	Ninemile Creek to Placer Creek				MTU		SED		.33
3518	South Fork Coeur d'Alene River	Placer Creek to Big Creek				MTU		SED		7.56
3519	Pine Creek	E Fk Pine Creek to S Fk CdA River				MTU		SED		5.28
3520	East Fork Pine Creek	Headwaters to Hunter Creek				MTU		SED		5.19
3521	East Fork Pine Creek	Hunter Creek to Pine Creek				MTU		SED		1.57
3524	Ninemile Creek	Headwaters to S Fk Coeur d'Alene R				MTU		SED		4.91
3525	Canyon Creek	Gorge Gulch to South Fk CdA River			HALT	MTU		SED		6.90
5084	Government Gulch	Headwaters to S.Fk of CdA River				MTU		SED		3.53
5127	Moon Creek	Headwaters to S Fk CdA River				MTU		SED		4.07
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				51.11
HUC#17010303										
3529	Coeur d'Alene River	Black Lake to Thompson Lake			HALT	MTU	pH	SED		4.21
3530	Thompson Creek	Headwaters to Cda River			HALT			SED		4.64
3531	Willow Creek	Headwaters to Coeur d'Alene River						SED		4.25
3534	Fourth of July Creek	Headwaters to CdA River			HALT			SED		7.15
3535	Latour Creek	Headwaters to CdA River	BAC		HALT			SED	TEMP	16.31
3541	Wolf Lodge Creek	Headwaters to CdA Lake	BAC		HALT		NUT	SED		10.30
3543	Fernan Creek	Fernan Lake to CdA Lake	BAC	DO	HALT		NUT	SED		.68
3545	Cougar Creek	North Fk Cougar Creek to CdA Lake			HALT		NUT	SED		4.04
3546	Kid Creek	Headwaters to CdA Lake			HALT		NUT	SED		4.06
3547	North Fork Mica Creek	Headwaters to CdA Lake	BAC	DO	HALT		NUT	SED		7.74
3549	Lake Creek	House Creek to Cda Lake						SED		6.32

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WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)						STREAM MILES
4015	Coeur d'Alene River	Cave Lake to Black Lake			HALT	MTU		pH	SED		4.00
4016	Coeur d'Alene River	Fortier Creek to Robinson Creek			HALT	MTU		pH	SED		.80
4017	Coeur d'Alene River	Fourth of July Creek to Fortier Cr			HALT	MTU		pH	SED		10.50
4018	Coeur d'Alene River	French Gulch to Skeel Gulch			HALT	MTU		pH	SED		4.21
4019	Coeur d'Alene River	Latour Creek to Fourth of July Cr			HALT	MTU		pH	SED		4.09
4020	Coeur d'Alene River	Robinson Creek to Cave Lake			HALT	MTU		pH	SED		1.57
4021	Coeur d'Alene River	S Fk CdA River to French Gulch			HALT	MTU		pH	SED		2.13
4022	Coeur d'Alene River	Skeel Gulch to Latour Creek			HALT	MTU		pH	SED		1.16
4023	Coeur d'Alene River	Thompson Lake to CdA Lake		DO	HALT	MTU		pH	SED	TEMP	4.19
7535	Baldy Creek	Headwaters to Latour Creek	BAC		HALT				SED	TEMP	5.17
7536	Larch Creek	Headwaters to Latour Creek	BAC		HALT				SED	TEMP	1.44
7543	Fernan Lake			DO			NUT		SED		.00
		NEW MILES	0.00				TOTAL MILES OF LISTED STREAMS				108.96
HUC#17010304											
3579	Saint Maries River	Mashburn (town) to St. Joe River			HALT		NUT		SED		23.74
3581	West Fork Saint Maries River	Headwaters to St. Maries River							SED	TEMP	9.61
3582	Thorn Creek	Headwaters to St. Maries River					NUT		SED		10.62
3583	Alder Creek	Headwaters to St. Maries River	*ADD*				NUT		SED		11.98
3584	John Creek	Unnamed trib 7.5 km upstream to St. Maries River							SED		4.60
3585	Santa Creek	Headwaters to St. Maries River		DO	HALT		NUT		SED		15.86
3587	Charlie Creek	Headwaters to Santa Creek			HALT				SED		6.76
3588	Renfro Creek	Headwaters to Davis Creek							SED		6.17
3589	Tyson Creek	North Fk Tyson Creek to St. Maries River			HALT				SED		1.99
3590	Crystal Creek	Headwaters to St. Maries River							SED		6.54
3591	Carpenter Creek	Headwaters to St. Maries River			HALT				SED		8.69
3593	Emerald Creek	Conflu of E & W Fks to St. Maries R			HALT				SED	TEMP	3.40
3594	Middle Fork Saint Maries River	Headwaters to St. Maries River			HALT				SED		14.22
3595	Merry Creek	Headwaters to Middle Fk St. Maries River							SED	TEMP	7.44
3596	Gold Center Creek	Windy Creek to Middle Fk St. Maries River			HALT				SED	TEMP	2.12
3601	Mica Creek	Headwaters to St. Joe River							SED		13.60
3608	Fishhook Creek	Lick Creek to St. Joe River							SED		5.21
3614	Bird Creek	Headwaters to St. Joe River							SED		6.26
3622	Gold Creek	East Fk Gold Creek to St. Joe River			HALT		NUT		SED	TEMP	1.59

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WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
5022	East Fork Bluff Creek	Headwaters to St. Joe River	*ADD*				SED		17.28
5620	Loop Creek	Headwaters to North Fk St. Joe River	*ADD*				SED	UNKN	12.11
7575	Tank Creek	Headwaters to St. Joe River		BAC	DO		SED	TEMP	2.14
7576	Harvey Creek	Headwaters to St. Joe River		BAC	DO		SED	TEMP	3.44
7577	Blackjack Creek	Headwaters to St. Joe River		BAC	DO		SED	TEMP	1.96
7596	Flewsie Creek	Headwaters to M Fk St. Maries River					SED	TEMP	4.34
7598	Gramp Creek	Headwaters to Gold Center Creek		BAC			SED	TEMP	4.60
7606	Bear Creek	Headwaters to Marble Creek		BAC			SED	TEMP	2.47
7607	Little Bear Creek	Headwaters to Big Bear Creek		BAC			SED	TEMP	2.00
		NEW MILES	34.65			TOTAL MILES OF LISTED STREAMS			210.74
HUC#17010305									
3560	Rathdrum Creek	Twin Lakes outlet to E Greenacres Diversion				NUT	SED		3.42
3561	Fish Creek	Washington line to Twin Lakes				NUT	SED		6.02
7555	Hayden Lake					NUT	SED		.00
7561	Twin Lakes			BAC		NUT	SED		.00
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			9.44
HUC#17010306									
3565	Hangman Creek	IR Boundary to ID/WA line		BAC		NUT	SED		17.47
3566	Hangman Creek	Headwaters to IR Boundary			HALT	NUT	SED		4.21
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			21.68
HUC#17040104									
2006	Antelope Creek	State land bnd to S Fk Snake River					SED		11.49
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			11.49
HUC#17040201									
5655	South Fork Willow Creek	HUC boundary to Snake River					SED		29.00
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			29.00
HUC#17040202									
7610	Sheridan Creek	Yale Kilgore Road to Island Park Reservoir	*ADD*				SED		15.62
		NEW MILES	15.62			TOTAL MILES OF LISTED STREAMS			15.62

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17040204								
2113	North Fork Teton River	Forks to Henrys Fk, Snake R			NUT	SED		14.64
2116	Teton River	Highway 33 to Bitch Creek		HALT	NUT	SED		10.10
2117	Teton River	Trail Creek to Highway 33		HALT		SED		20.00
2125	Badger Creek	Highway 32 to Teton River				SED		8.51
2127	Spring Creek	Wyoming line to Teton River		QALT		SED	TEMP	12.60
2128	South Leigh Creek	Wyoming line to Teton River				SED		11.30
2129	Packsaddle Creek	Headwaters to Teton River		QALT		SED		9.88
2134	Darby Creek	Highway 33 to Teton River		QALT		SED		3.48
2136	Fox Creek	Wyoming line to Teton River		QALT		SED	TEMP	9.18
		NEW MILES	1.71		TOTAL MILES OF LISTED STREAMS			99.69
HUC#17040205								
2035	Willow Creek	Ririe Dam to HUC boundary				SED		5.38
2036	Ririe Lake					SED		.00
2037	Willow Creek	Grays Lake Outlet to Ririe Reservoi				SED		16.79
2039	Willow Creek	Headwaters to Sellars Creek				SED		19.09
2040	Meadow Creek	Headwaters to Ririe Reservoir				SED		10.58
2041	Tex Creek	Headwaters to Indian Fork				SED		8.34
2042	Birch Creek	Headwaters to Willow Creek				SED		7.04
2044	Grays Lake Outlet	Grays Lake to Above Falls			NUT	SED		5.97
2045	Hell Creek	Headwaters to Grays Lake Outlet			NUT	SED		13.92
2046	Lava Creek	Headwaters to Grays Lake Outlet				SED	TEMP	7.07
2047	Brockman Creek	Headwaters to Grays Lake Outlet			NUT	SED		12.68
2048	Corral Creek	Headwaters to Brockman Creek				SED	TEMP	4.29
2049	Sawmill Creek	Headwaters to Brockman Creek				SED	TEMP	3.07
2050	Homer Creek	Headwaters to Grays Lake Outlet				SED		19.76
2051	Sellars Creek	Confluence of South Fk Sellars to Willow Creek		QALT		SED	TEMP	4.22
2053	Long Valley Creek	Headwaters to Willow Creek				SED	TEMP	6.59
2054	Mill Creek	Headwaters to Willow Creek				SED	TEMP	6.39
2056	Crane Creek	Headwaters to Willow Creek				SED		15.22
2057	Seventy Creek	Headwaters to Willow Creek		QALT		SED	TEMP	3.06
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			169.46
HUC#17040206								

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)		STREAM MILES
2346	American Falls Reservoir			DO	NUT	SED	.00
2347	Snake River	Ferry Butte to American Falls Reser				SED	14.94
2348	Snake River	Bonneville County line to Ferry But		DO QALT	NUT	SED	40.44
2349	Bannock Creek	Headwaters to IR Boundary	BAC		NUT	SED	21.12
2350	Rattlesnake Creek	Headwaters to IR Boundary				SED	14.53
2356	McTucker Creek	Headwaters to Snake River				SED	2.19
6349	Moonshine Creek	Headwaters to IR Boundary				SED	1.35
6350	West Fork Bannock Creek	Headwaters to IR Boundary				SED	3.64
6351	Bannock Creek	IR Boundary to American Falls	BAC		NUT	SED	30.31
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		128.52
HUC#17040207							
2303	Blackfoot River	Blackfoot Dam to Wolverine Creek		QALT	NUT	SED	40.35
2305	Blackfoot River	Headwaters to Blackfoot Reservoir			ORG	SED	41.16
2306	Wolverine Creek	Wolverine to Blackfoot River			NUT	SED	6.36
2309	Corral Creek	Headwaters to Blackfoot River				SED	18.50
2310	Meadow Creek	Headwaters to Blackfoot Reservoir				SED	30.93
2311	Trail Creek	Headwaters to Blackfoot River				SED	8.04
2312	Slug Creek	Headwaters to Blackfoot River				SED	23.56
2313	Angus Creek	Headwaters to Blackfoot River				SED	8.04
2314	Dry Valley Creek	Headwaters to Blackfoot River				SED	11.14
2315	Diamond Creek	Headwaters to Blackfoot River				SED	20.03
2316	Bacon Creek	Forest Service boundary to Lanes Creek				SED	2.97
2320	Lanes Creek	Headwaters to Blackfoot River				SED	10.44
2321	Sheep Creek	Headwaters to Lanes Creek				SED	7.89
6302	Blackfoot River	Wolverine Creek to Main Canal			NUT	SED	23.85
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		253.26
HUC#17040208							
2324	Portneuf River	Interstate 86 to IR Boundary	BAC		NUT	SED	1.74
2325	Portneuf River	Diversion, T9SR37ES22 to Marsh Cree	BAC		NUT	SED	18.45
2326	Portneuf River	Lava Hot Springs to PVC diversion	BAC		NUT	SED	8.01
2327	Portneuf River	Downey Canal return to Lava Hot Springs	BAC	QALT	NUT	SED	18.19
2328	Portneuf River	Chesterfield Reservoir to Downey Canal return	BAC	QALT	NUT	SED	13.38
2330	Portneuf River	Headwaters to Chesterfield Res				SED	18.25

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
2331	Pocatello Creek	Headwaters to Portneuf River				SED		4.93
2334	Rapid Creek	Headwaters to Portneuf River				SED		6.25
2335	Marsh Creek	Calvin Road to Portneuf River			NUT	SED		48.40
2336	Garden Creek	Garden Creek Gap to Marsh Creek			NUT	SED		7.52
2337	Hawkins Creek	Headwaters to Marsh Creek			NUT	SED		15.05
2338	Birch Creek	Birch Creek Road to Marsh Creek			NUT	SED		6.47
2339	Cherry Creek	Forest Service boundary to Birch Creek			NUT	SED		7.41
2342	Twentyfourmile Creek	Headwaters to Portneuf River				SED		12.93
5150	Portneuf River	IR Boundary to American Falls Reser	BAC		NUT	SED		4.33
6324	Portneuf River	Johnny Creek to Interstate 86	BAC		NUT O/G	SED		9.82
6325	Portneuf River	Marsh Creek to Johnny Creek	BAC		NUT	SED		12.90
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			214.03
HUC#17040209								
2359	Milner Lake			DO QALT	NUT O/G	SED		.00
2362	Snake River	Massacre Rocks to Lake Walcott		DO	PST	SED		20.51
2363	Snake River	Eagle Rock to Massacre Rock				SED		2.49
2365	Rock Creek	Headwaters to Snake River				SED		13.02
2366	East Fork Rock Creek	Bench Ditch to Rock Creek				SED		5.33
6363	Snake River	American Falls Dam to Eagle Rock				SED		8.99
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			50.34
HUC#17040210								
2430	Raft River	Malta to Snake River	BAC	DO QALT	NH3 NUT	SED		33.93
2431	Raft River	Utah Line to Malta	BAC	DO QALT		SALSED	TEMP	42.19
2432	Sublett Creek	Sublett Res to lower boundaries	*ADD* BAC	DO QALT	NUT	SED		8.24
2434	Sublett Reservoir			DO QALT	NUT	SED		.00
2438	Cassia Creek	Connor Creek to Raft River		HALT		SED		12.74
		NEW MILES	2.23		TOTAL MILES OF LISTED STREAMS			97.10
HUC#17040211								
2446	Lower Goose Creek Reservoir			DO QALT	NUT	SED		.00
2447	Goose Creek	State line to Lower Goose Creek Reservoir	BAC	DO QALT	NUT	SED	TEMP	15.42
2448	Birch Creek	Headwaters to Oakley (town)	BAC	DO		SED		14.97
2449	Trapper Creek	Ibex Hollow to Lower Goose Creek Reservoir	BAC	DO QALT		SED		7.62

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WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			38.01
HUC#17040212							
2369	Snake River	Bliss Bridge to King Hill Diversion			SED		5.78
2370	Bliss Reservoir		BAC	DO QALT	NH3	SED	.00
2372	Lower Salmon Falls Reservoir			DO QALT		SED	.00
2373	Upper Salmon Falls Reservoir			DO QALT		SED	.00
2374	Snake River	Cedar Draw to Rock Creek				SED TEMP	7.27
2375	Shoshone Falls Reservoir			DO QALT		SED	.00
2377	Snake River	Murtaugh to Twin Falls Reservoir	BAC	DO	NH3	SED	11.65
2378	Snake River	Milner Dam to Murtaugh	BAC	DO QALT		SED TEMP	8.53
2379	Clover Creek	Pioneer Res. to Snake River				SED	10.05
2380	Pioneer Reservoir		BAC	DO QALT	NH3 NUT	SED TEMP	.00
2384	Billingsley Creek	Headwaters to Snake River		DO QALT	NH3	SED	7.57
2385	Riley Creek	Headwaters to Snake River	BAC	DO	NH3 NUT	SED	2.47
2386	Sand Springs Creek	Headwaters to Snake River		QALT	NUT	SED	.23
2389	Blind Canyon	Headwaters to Snake River	BAC	DO QALT	NH3 NUT	SED	.72
2395	Clear Springs	Headwaters to Snake River		DO	NH3 NUT	SED	1.00
2398	Crystal Springs	Headwaters to Snake River		DO QALT	NH3 NUT	SED	.20
2400	Rock Creek	Rock Creek (town) to Snake	BAC	DO QALT	NH3 NUT O/G	SED	26.07
2403	Cottonwood Creek	Headwaters to Rock Creek	BAC	QALT	NH3 NUT PST	SED	6.57
2404	McMullen Creek	Headwaters to Cottonwood Creek	BAC	DO QALT	NUT	SED TEMP	15.70
2405	Alpheus Creek	Headwaters to Snake River		DO	NUT	SED	.35
2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake	BAC	QALT		SED TEMP	10.19
2411	West Fork Dry Creek	Headwaters to Dry Creek	BAC	DO QALT	NUT	SED	6.22
5173	Snake River	Cassia Gulch to Big Pilgrim Gulch			NUT	SED TEMP	3.47
5174	Snake River	Clear Lakes Bridge to Cedar Draw				SED TEMP	6.10
5175	Snake River	Deep Creek to Mud Creek				SED TEMP	.11
5176	Snake River	King Hill to Big Pilgrim Gulch				SED TEMP	9.31
5177	Snake River	Mud Creek to Clear Lakes Bridge				SED TEMP	1.33
6374	Snake River	Shoshone Falls to Rock Creek				SED TEMP	8.25
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			149.14
HUC#17040213							
2459	Salmon Falls Creek	Bluegill Lake to Snake River	BAC	DO	NUT	SED	8.81
2462	Cedar Creek	Cedar Creek Res to Salmon Falls Cr	BAC	DO QALT	NUT	SED	19.55

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WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)					STREAM MILES
2463	Cedar Creek Reservoir		BAC	DO QALT	NH3 NUT	SED			.00
2466	Shoshone Creek	Magic Hot Springs to Nevada	BAC	DO		SED	TEMP		4.71
2468	Shoshone Creek	Cottonwood Creek to Big Creek	BAC	DO QALT	NUT	SED	TEMP		6.44
2471	Cottonwood Creek	Headwaters to Shoshone Creek		DO	NUT	SED			11.19
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS				50.70
HUC#17040214									
2190	Camas Creek	Highway 91 to Mud Lake			NUT	SED			15.58
2191	Camas Creek	Spring Creek to Highway 91		QALT HALT	NUT	SED	TEMP		37.21
2193	Beaver Creek	Dubois to Camas Creek		QALT HALT	NUT	SED	TEMP		15.44
2194	Beaver Creek	Spencer to Dubois		QALT HALT	NUT	SED	TEMP		16.90
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS				85.13
HUC#17040215									
2206	Medicine Lodge Creek	Middle Creek to Small Creek		QALT		SED	TEMP		5.47
2210	Edie Creek	Headwaters to Medicine Lodge Creek		HALT	NUT	SED			7.72
2211	Irving Creek	Headwaters to Medicine Lodge Creek		HALT	NUT	SED			6.93
2215	Warm Springs Creek	Headwaters to Sinks			NUT	SED			19.42
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS				39.54
HUC#17040216									
2154	Birch Creek	Reno Ditch to Sinks		QALT HALT	NUT	SED			16.84
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS				16.84
HUC#17040217									
2145	Wet Creek	Coal Creek to Little Lost River		QALT		SED	TEMP		15.89
2148	Sawmill Creek	Mill Creek to Little Lost River				SED	TEMP		12.31
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS				28.20
HUC#17040218									
2161	Big Lost River	Moore Diversion to US 26		DO QALT	NUT	SED	TEMP		19.20
2164	Big Lost River	Chilly Buttes to Mackay Reservoir			NUT	SED			14.61
2167	Spring Creek	Springs to Big Lost River		DO QALT	NUT	SED	TEMP		17.11
2168	Antelope Creek	Spring Creek to Big Lost River		QALT		SED	TEMP		16.19
2176	Twin Bridges Creek	Headwaters to Big Lost River			NUT	SED			9.09
2180	East Fork Big Lost River	Headwaters to Starhope Creek				SED	TEMP		13.04

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WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)				STREAM MILES
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				89.24
HUC#17040219								
2476	Big Wood River	Little Wood River to Interstate	BAC	DO QALT	NH3 NUT	SED		9.29
2477	Big Wood River	Highway 75 to Little Wood River	BAC	DO QALT	NH3 NUT	SED		32.65
2478	Big Wood River	Magic Reservoir to Highway 75	*ADD*	QALT	NUT	SED		28.39
2487	Rock Creek	Headwaters to Magic Reservoir	BAC	HALT		SED	TEMP	12.02
2491	Croy Creek	Elk Creek to Big Wood River		QALT	NUT	SED		5.77
		NEW MILES	2.67	TOTAL MILES OF LISTED STREAMS				88.12
HUC#17040220								
2532	Camas Creek	Headwaters to Macon Flat Bridge				SED		51.32
2537	Soldier Creek	Baseline to Camas Creek	BAC	DO QALT	NUT	SED		6.70
2539	Mormon Reservoir		BAC	DO QALT	NUT	SED		.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				58.02
HUC#17040221								
2511	Little Wood River	Richfield (town) to Big Wood River	BAC	DO QALT	NUT	SED		50.76
2512	Little Wood River	Silver Creek to Richfield (town)			NUT	SED		19.17
2513	Little Wood River	East Canal Diversion to Silver Cr			NUT	SED		19.42
2515	Little Wood River Reservoir		BAC	DO QALT	NUT	SED		.00
2521	Dry Creek	Headwaters to Little Wood River	BAC	DO QALT	NUT	SED		13.87
2522	Fish Creek	Fish Creek Reservoir to Carey Lake	BAC	DO QALT	NUT	SED		12.73
2523	Fish Creek Reservoir		BAC	DO QALT	NUT	SED		.00
5650	Fish Creek	Headwaters to Fish Creek Reservoir	*ADD* BAC	DO QALT	NUT	SED		12.95
		NEW MILES	12.95	TOTAL MILES OF LISTED STREAMS				128.90
HUC#17050101								
2415	Snake River	King Hill to HWY 51 Bridge				SED		33.45
2418	Browns Creek	Headwaters to Snake River				SED		17.18
2420	Sailor Creek	Headwaters to Snake River				SED		64.06
2422	Ryegrass Creek	Headwaters to Cold Springs Creek				SED		15.68
2423	Alkali Creek	Headwaters to Snake River				SED		16.36
2424	Little Canyon Creek	Headwaters to Snake River		QALT		SED		28.77
2425	Deadman Creek	Conflu of E & W Fks to Snake River				SED		38.92
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS				214.42

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)				STREAM MILES
HUC#17050102									
2549	Bruneau River	Hot Creek to CJ Strike Reservoir		QALT	NUT		SED	TEMP	14.44
2551	Jacks Creek	Little Jacks Cr to CJ Strike Res		DO QALT	NUT		SED	TEMP	12.31
2552	Sugar Creek	Headwaters to Jacks Creek					SED		36.34
2555	Wickahoney Creek	2.5 miles below headwaters to Big Jacks Creek		QALT			SED		15.55
2557	Hot Creek	Headwaters to Bruneau River	BAC	QALT			SED		21.79
2558	Clover Creek	71 Draw to Bruneau River					SED		52.61
2561	Three Creek	Headwaters to Clover Creek					SED		14.29
2567	Cougar Creek	Headwaters to Jarbidge River					SED		23.07
2568	Poison Creek	Headwaters to Jarbidge River					SED		32.33
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS				222.73
HUC#17050103									
2668	Snake River	Swan Falls to Boise River	BAC	DO QALT	NUT	pH	SED		54.70
2669	Snake River	Castle Creek to Swan Falls					SED		13.27
2670	Snake River	CJ Strike Res to Castle Creek					SED		23.46
2671	Succor Creek	Oregon line to Snake River					SED		5.38
2672	McBride Creek	Headwaters to Oregon Line		QALT			SED	TEMP	11.81
2674	Squaw Creek	Unnamed trib 3.9 km upstream to Snake River					SED		2.40
2675	Hardtrigger Creek	Headwaters to Snake River					SED		12.55
2676	Reynolds Creek	Diversion to Snake River					SED		4.06
2677	Rabbit Creek	Headwaters to Snake River					SED		11.87
2679	Sinker Creek	Diamond Creek to Snake River	*ADD*	QALT			SED	TEMP	10.77
2680	Castle Creek	T5SR1ES28 to Snake River		QALT			SED	TEMP	12.78
2681	Pickett Creek	T5SR1WS32 to Catherine Creek					SED		4.85
2682	Brown Creek	Headwaters to Catherine Creek					SED		16.99
2684	Birch Creek	Headwaters to Snake River					SED		27.24
2685	Corder Creek	Headwaters to Snake River					SED		17.50
2687	Poison Creek	Headwaters to Shoofly Creek					SED		17.45
6671	Succor Creek	Headwaters to Oregon Line		QALT			SED	TEMP	22.19
6681	Pickett Creek	Headwaters to T5SR1W32		QALT			SED	TEMP	11.52
		NEW MILES	8.51		TOTAL MILES OF LISTED STREAMS				280.79

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WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)				STREAM MILES
HUC#17050104										
2613	Red Canyon	Headwaters to Owyhee River		QALT				SED	TEMP	5.22
2614	Deep Creek	Headwaters to Owyhee River						SED	TEMP	46.14
2616	Castle Creek	Headwaters to Deep Creek						SED	TEMP	11.15
2625	Juniper Basin Reservoir							SED		.00
2627	Blue Creek Reservoir							SED		.00
6618	Nickel Creek	Headwaters to Mud Flat Road						SED		2.79
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				65.30
HUC#17050105										
2632	South Fork Owyhee River	Nevada Line to Owyhee River		QALT				SED	TEMP	32.33
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				32.33
HUC#17050107										
2640	Middle Fork Owyhee River	Headwaters to Oregon Line		QALT				SED	TEMP	8.64
2642	Squaw Creek	Headwaters to Oregon Line		QALT				SED	TEMP	13.05
2644	Juniper Creek	Headwaters to N Fk Owyhee River		QALT				SED	TEMP	11.72
2645	Pleasant Valley Creek	Headwaters to N Fk Owyhee River		QALT				SED	TEMP	10.79
2646	Noon Creek	Headwaters to N Fk Owyhee River						SED	TEMP	9.13
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				53.33
HUC#17050108										
2648	Jordan Creek	Williams Creek to Oregon Line	BAC				O/G	PST	SED	9.49
2656	Rock Creek	Headwaters to Triangle Reservoir		QALT					SED	TEMP	17.28
2660	Louse Creek	Headwaters to Jordan Creek		QALT	MTU			pH	SED	9.79
2662	Soda Creek	Headwaters to Cow Creek							SED	7.51
6656	Louisa Creek	Headwaters to Triangle Reservoir		QALT					SED	TEMP	8.16
6661	Cow Creek	Headwaters to Oregon Line		QALT					SED	TEMP	12.28
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				64.51
HUC#17050111										
5026	Browns Creek	Headwaters to M Fk Boise River							SED	6.45
5028	Buck Creek	Headwaters to M Fk Boise River							SED	7.18
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS				13.63
HUC#17050112										

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
5117	Macks Creek	Headwaters to Grimes Creek				SED		6.42
5126	South Fork Minneha Creek	Headwaters to Mores Creek	*ADD*			SED		8.75
		NEW MILES	3.37		TOTAL MILES OF LISTED STREAMS			15.17
HUC#17050113								
2572	South Fork Boise River	Anderson Ranch Res to Arrowrock Res				SED		28.73
2575	Willow Creek	Headwaters to Arrowrock Reservoir				SED		14.95
2577	Rattlesnake Creek	Headwaters to S Fk Boise River				SED		15.91
2578	Smith Creek	Tiger Creek to South Fk Boise River				SED		14.51
5038	Cayuse Creek	Headwaters to S Fk Boise River				SED		3.23
5060	Deer Creek	Headwaters to Anderson Ranch Res				SED		1.33
5071	Elk Creek	Headwaters to Feather River				SED		7.04
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			85.70
HUC#17050114								
2726	Boise River	Notus (town) to Snake River	BAC		NUT	SED	TEMP	15.83
2727	Boise River	Star (town) to Notus (town)	BAC		NUT	SED		21.49
2728	Boise River	Barber Diversion to Star				SED		25.27
2730	Sand Hollow Creek	Headwaters to Boise River		DO	NUT	SED		23.67
2731	Indian Creek	New York Canal to Boise River		DO	NUT O/G	SED		16.62
2732	Indian Creek	Headwaters to New York Canal			NUT	SED		39.06
2733	Mason Creek	Headwaters to Boise River		DO	NUT	SED		17.75
2734	Fivemile Creek	Headwaters to Fifteenmile Creek		DO	NUT	SED		28.92
2736	Tenmile Creek	Headwaters to Fifteenmile Creek		DO	NUT	SED		27.15
2737	Blacks Creek	Headwaters to Blacks Creek Res.		DO	NUT	SED		13.22
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			228.98
HUC#17050115								
2664	Snake River	Boise River to Weiser River	BAC		NUT	pH	SED	42.00
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			42.00
HUC#17050120								
5186	South Fork Payette River	Wilderness bnd to Payette River					SED	59.47
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			59.47
HUC#17050121								

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WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
2703	Middle Fork Payette River	Big Bulldog Creek to South Fk Payette River					SED		13.00
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			13.00
HUC#17050122									
2690	Black Canyon Reservoir					NUT O/G	SED		.00
2695	Bissel Creek	Headwaters to Payette River					SED		16.99
2697	Soldier Creek	Headwaters to Squaw Creek					SED		8.96
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			25.95
HUC#17050123									
2889	Round Valley Creek	Headwaters to N Fk Payette River					SED		5.66
2890	Clear Creek	Headwaters to N Fk Payette River					SED		17.78
2891	Big Creek	Horsethief Creek to North Fk Payette River					SED		6.50
2893	Gold Fork River	Flat Creek to Cascade Reservoir				NUT	SED		5.36
2895	Boulder Creek	Headwaters to Cascade Reservoir		DO	QALT	NUT	SED	TEMP	20.46
2898	Mud Creek	Headwaters to Cascade Reservoir	BAC	DO		NH3 NUT	SED		12.04
6882	North Fork Payette River	Clear Creek to Smiths Ferry			QALT HALT	NUT	SED	TEMP	9.53
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			77.33
HUC#17050124									
2834	Weiser River	Galloway Dam to Snake River	BAC	DO		NUT	SED	TEMP	12.39
2835	Weiser River	West Fk Weiser River to Little Weiser River				NUT	SED		20.84
2837	Mann Creek	Mann Creek Res to Weiser River					SED		12.96
2839	Cove Creek	Headwaters to Weiser River				NUT	SED		13.99
2840	Crane Creek	Crane Creek Res to Weiser River	BAC			NUT	SED		12.60
2841	Crane Creek Reservoir					NUT	SED		.00
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	BAC		QALT	NUT	SED	TEMP	24.65
2845	Little Weiser River	Indian Valley to Weiser River				NUT	SED		17.23
6834	Weiser River	Little Weiser River to Galloway Dam	BAC			NUT	SED		31.50
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			146.16
HUC#17050201									
2817	Snake River	Brownlee Dam to Oxbow Dam				NUT	PST	SED	11.59
2818	Brownlee Reservoir			DO	MTH	NUT	pH	SED	.00
2819	Snake River	Weiser (town) to Brownlee Dam		DO		NUT	pH	SED	33.87

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WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)					STREAM MILES
2825	Dennett Creek	Headwaters to Snake River		QALT			SED	TEMP	6.46
2828	Warm Springs Creek	Headwaters to Snake River				NUT	SED		12.64
2829	Hog Creek	Headwaters to Snake River				NUT	SED		9.94
2830	Scott Creek	Headwaters to Snake River				NUT	SED		18.30
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					92.80
HUC#17060101									
2905	Divide Creek	Headwaters to Snake River					SED		14.34
2906	Wolf Creek	Headwaters to Snake River					SED		14.29
2907	Getta Creek	Headwaters to Snake River					SED		9.21
2912	Deep Creek	Red Ledge Mine to Snake River			MTU	pH	SED		2.09
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					39.93
HUC#17060103									
3311	Tammany Creek	Headwaters to Snake River					SED		13.79
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					13.79
HUC#17060108									
3122	Deep Creek	Headwaters to Palouse River	BAC	QALT HALT		NUT	SED	TEMP	12.16
3123	Flannigan Creek	Headwaters to Palouse River	BAC	QALT HALT		NUT	SED	TEMP	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	BAC	QALT HALT		NUT	SED	TEMP	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	BAC	QALT HALT		NUT	SED	TEMP	4.45
3126	Hatter Creek	Headwaters to Palouse River	BAC	QALT HALT		NUT	SED	TEMP	9.79
3128	Big Creek	Headwaters to Palouse River	BAC	QALT HALT		NUT	SED	TEMP	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	BAC	QALT HALT		NUT	SED	TEMP	13.42
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS					67.04
HUC#17060201									
3009	Salmon River	Redfish Lake Cr to E Fk Salmon R					SED	TEMP	44.45
3010	Salmon River	Hellroaring Cr to Redfish Lake Cr					SED		13.34
3013	Challis Creek	Forest Boundary to Salmon River		QALT		NUT	SED		9.35
3017	Garden Creek	Forest Boundary to Salmon River				NUT	SED		14.39
3019	Warm Spring Creek	Headwaters to Sink				NUT	SED		21.56
3031	Thompson Creek	Scheelite Jim mill site to Salmon River			MTU		SED		1.02
3035	Yankee Fork	Jordan Cr. to Salmon River		HALT			SED		9.00
3036	Yankee Fork	Fourth of July Creek to Jordan Creek		HALT			SED		2.92

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			116.03
HUC#17060202								
3099	Pahsimeroi River	Dowton Lane to Salmon River			NUT	SED		9.19
3100	Pahsimeroi River	Mahogany Creek to Dowton Lane			NUT	SED		39.51
3102	Patterson Creek	Inyo Creek to Pahsimeroi River		QALT		SED		18.79
3106	Morse Creek	Forest Boundary to Pahsimeroi River		QALT	NUT	SED		5.80
3110	Big Creek	Forest Boundary to Pahsimeroi River			NUT	SED		11.99
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			85.28
HUC#17060203								
2972	Big Deer Creek	Big Deer Cr. S.Fk to Panther Cr.		MTU	pH	SED		2.98
2977	Blackbird Creek	Blackbird Creek Reservoir to Panther Creek		MTU	pH	SED		5.97
2989	Dump Creek	Headwaters to Salmon River				SED		6.48
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			15.43
HUC#17060204								
3067	Wimpey Creek	BLM boundary to Lemhi River			NUT	SED		6.62
3077	McDevitt Creek	BLM boundary to Lemhi River				SED		2.83
3082	Mill Creek	Forest boundary to Lemhi River		QALT	NUT	SED		5.35
3095	Hawley Creek	First Diversion to Eighteenmile Creek			NUT	SED		6.09
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			20.89
HUC#17060205								
2805	Elkhorn Creek	Headwaters to Middle Fk Salmon Rive		QALT		SED	TEMP	7.41
2808	Bear Valley Creek	Headwaters to Wilderness Boundary				SED		29.23
5013	Bearskin Creek	Headwaters to Elk Creek				SED		8.44
5033	Cache Creek	Headwaters to Bear Valley Creek				SED		7.61
5046	Cook Creek	Headwaters to Elk Creek				SED		6.10
5053	Cub Creek	Headwaters to Bear Valley Creek				SED		2.62
5055	Dagger Creek	Headwaters to Bear Valley Creek				SED		7.72
5077	Fir Creek	Headwaters to Bear Valley Creek				SED		6.85
5149	Porter Creek	Headwaters to Elk Creek				SED		6.17
5164	Sheep Trail Creek	Headwaters to Bear Valley Creek				SED		2.25
6808	Bear Valley Creek	Wilderness boundary to M Fk Salmon				SED		1.52
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			85.92

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)	STREAM MILES
HUC#17060206						
2775	Monumental Creek	Headwaters to Fall Creek			SED	7.77
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	7.77
HUC#17060207						
3349	Crooked Creek	Headwaters to Salmon River			SED	21.25
3351	Big Creek	Headwaters to Crooked Creek			SED	12.25
5018	Big Mallard Creek	Headwaters to Salmon River			SED	18.77
5099	Jersey Creek	Headwaters to Salmon River			SED	7.65
5109	Little Mallard Creek	Headwaters to Salmon River			SED	8.78
5156	Rhett Creek	Headwaters to Salmon River			SED	8.39
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	77.09
HUC#17060208						
2915	South Fork Salmon River	Station Creek to Salmon River			SED	2.38
2916	South Fork Salmon River	Wilderness to Station Creek			SED	8.77
2917	South Fork Salmon River	Secesh River to Wilderness Bnd			SED	24.78
2918	South Fork Salmon River	Buckhorn Creek to Secesh River			SED	9.03
2919	South Fork Salmon River	Rice Creek to Buckhorn Creek			SED	34.52
2920	South Fork Salmon River	Headwaters to Rice Creek			SED	9.24
2934	East Fork South Fork Salmon River	Johnson Creek to Salmon River		MTU	SED	14.47
2935	East Fork South Fork Salmon River	Sugar Creek to Johnson Creek		MTU	SED	10.96
2936	East Fork South Fork Salmon River	Headwaters to Sugar Creek		MTU	SED	7.04
2940	Johnson Creek	Ice Hole Campgrnd to S Fk Salmon R			SED	2.55
2941	Johnson Creek	Halfway Creek to Ice Hole Campgrnd			SED	12.70
2942	Johnson Creek	Headwaters to Halfway Creek			SED	23.13
5066	Dollar Creek	Headwaters to S Fk Salmon River			SED	7.93
5195	Trail Creek	Headwaters to Curtis Creek			SED	4.49
5199	Trout Creek	Headwaters to Johnson Creek			SED	5.17
5203	Tyndall Creek	Headwaters to Johnson Creek			SED	1.06
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS	178.22

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WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17060209								
3321	China Creek	Headwaters to Salmon River				SED		8.55
3323	Deer Creek	Headwaters to Salmon River				SED		23.36
3324	Cottonwood Creek	Headwaters to Salmon River				SED		10.31
3325	Maloney Creek	Headwaters to Salmon River	BAC	QALT	NUT	SED	TEMP	10.14
3326	Deep Creek	Headwaters to Salmon River	BAC	QALT HALT	NUT	SED	TEMP	11.66
3327	Rice Creek	Headwaters to Salmon River				SED		14.48
3328	Rock Creek	Conflu of Johns and Telcher Creeks to Salmon R				SED		9.28
3329	Grave Creek	Headwaters to Rock Creek				SED		10.54
3333	Slate Creek	Headwaters to Salmon River				SED		21.91
3334	Little Slate Creek	Headwaters to Slate Creek				SED		14.81
3336	Race Creek	Headwaters to Salmon River				SED		8.29
5003	Allison Creek	Headwaters to Salmon River				SED		8.27
5041	China Creek	Headwaters to Salmon River				SED		5.08
5050	Cow Creek	Headwaters to Salmon River				SED		5.12
5101	Jungle Creek	Headwaters to S Fk White Bird Creek				SED		2.16
5102	Kessler Creek	Headwaters to S Fk Race Creek				SED		4.44
5108	Little Boulder Creek	Headwaters to Big Boulder Creek				SED		4.30
5111	Little White Bird Creek	Headwaters to S Fk White Bird Creek				SED		5.75
5146	Pinnacle Creek	Headwaters to S Fk White Bird Creek				SED		5.86
5171	Skookumchuck Creek	Conflu of N & S Fks to Salmon River				SED		3.35
5201	Turnbull Creek	Headwaters to Little Slate Creek				SED		3.02
5204	Van Buren Creek	Headwaters to Little Slate Creek				SED		5.30
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			195.98
HUC#17060210								
2869	Elk Creek	Headwaters to Little Salmon				SED		7.41
2877	Big Creek	Headwaters to Little Salmon River			NUT	SED		15.12
5094	Indian Creek	Headwaters to Little Salmon				SED		2.46
5165	Shingle Creek	Headwaters to Rapid River				SED		5.45
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			30.44
HUC#17060302								
3262	O'Hara Creek	Hamby Fork to Selway River				SED		4.42
5096	Island Creek	Headwaters to Selway River				SED		3.97

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WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)			STREAM MILES
5172	Slide Creek	Headwaters to Selway River		SED			4.17
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			12.56
HUC#17060305							
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC	DO HALT	NH3 NUT	SED TEMP	31.19
3289	Red Rock Creek	Headwaters to Cottonwood Creek				SED	11.04
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT	NH3 NUT	SED TEMP	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	BAC	DO QALT HALT		SED TEMP	12.37
3301	Newsome Creek	Beaver Creek to South Fk Clearwater River				SED	6.91
4002	Lucas Lake					SED	.00
5015	Beaver Creek	Headwaters to Newsome Creek				SED	4.95
5030	Buffalo Gulch	Headwaters to American River				SED	6.49
5056	Dawson Creek	Headwaters to Red River				SED	2.29
5136	Nugget Creek	Headwaters to Newsome Creek				SED	2.72
5169	Sing Lee Creek	Headwaters to Newsome Creek				SED	3.09
5185	South Fork Clearwater River	Red River to Clearwater River		HALT		SED TEMP	63.79
5217	Cougar Creek	Headwaters to SF Clearwater				SED	6.37
7288	Stockney Creek	Headwaters to Cottonwood Creek	BAC			SED	11.95
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS			181.34
HUC#17060306							
3137	Long Hollow Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	NUT	SED	16.03
3140	Holes Creek	Headwaters to Little Canyon	BAC	DO QALT HALT	MTU NH3 NUT O/G ORG PST	SED	9.08
3141	Lindsay Creek	Boundary to Clearwater River	BAC	DO QALT HALT	NUT	SED TEMP	7.35
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	BAC	DO QALT HALT	NUT	SED TEMP	16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC	DO QALT HALT	NUT ORG PST	SED TEMP	19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC	DO QALT HALT	NUT	SED TEMP	5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC	DO QALT HALT	NH3 NUT ORG	SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC	DO QALT HALT	NH3 NUT O/G ORG PST	SED TEMP	14.13
3150	Potlatch River	Headwaters to Bear Creek	BAC	QALT HALT	NUT	SED TEMP	40.47
3155	Pine Creek	Headwaters to Potlatch River	BAC	QALT HALT	NUT	SED TEMP	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	BAC	QALT HALT	NUT	SED TEMP	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	BAC	QALT HALT	NUT	SED TEMP	2.14
3159	Moose Creek	Headwaters to Potlatch River	BAC	QALT HALT	NUT pH	SED TEMP	5.76

1998 303(d) List: Segments Listed for Sediment as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
3161	Pine Creek	Boundary to Clearwater River				NH3 NUT O/G	SED		1.95
3162	Bedrock Creek	Headwaters to Boundary	BAC	DO QALT HALT		NH3 NUT O/G	SED	TEMP	6.08
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	BAC	QALT HALT		NUT	SED	TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC	DO QALT HALT		NH3 NUT O/G	SED	TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	BAC	QALT HALT		NUT	SED	TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC	DO QALT HALT		NUT O/G	SED	TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	BAC	QALT HALT		NUT	SED	TEMP	13.33
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO QALT HALT		NH3 NUT O/G ORG PST	SED	TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO QALT HALT		NH3 NUT O/G	SED	TEMP	7.30
3181	Sevenmile Creek	Headwaters to Lawyer Creek		HALT			SED		7.25
4010	Pine Creek	Headwaters to Boundary	BAC	DO QALT HALT		NUT	SED	TEMP	10.01
5048	Corral Creek	Headwaters to Potlatch Creek					SED		9.94
5125	Middle Potlatch Creek	Headwaters to Potlatch River	BAC	QALT HALT		NUT	SED	TEMP	16.42
5130	Mud Creek	Headwaters to Lolo Creek					SED		3.83
5211	West Fork Potlatch River	Cougar Creek to Potlatch River					SED		3.07
5216	Yakus Creek	Molly Creek to Lolo Creek					SED		2.94
7143	Winchester Lake		BAC	DO QALT HALT		NUT PST	SED	TEMP	.00
7162	Bedrock Creek	Boundary to Clearwater River				NUT	SED		3.46
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			334.83

HUC#17060307

3215	Orogrande Creek	Headwaters to N Fk Clearwater River					SED		19.51
3225	Osier Creek	Headwaters to Moose Creek		QALT HALT			SED	TEMP	8.09
3229	Gravey Creek	Headwaters to Cayuse Creek					SED		8.96
5040	China Creek	Headwaters to Osier Creek					SED		4.89
5045	Cold Springs Creek	Headwaters to N Fk Clearwater R					SED		4.84
5047	Cool Creek	Headwaters to Cold Springs Creek					SED		3.32
5049	Cougar Creek	Headwaters to Quartz Creek					SED		3.69
5059	Deception Gulch	Headwaters to N Fk Clearwater R					SED		4.74
5088	Grizzly Creek	Headwaters to Quartz Creek					SED		4.53
5093	Hem Creek	Headwaters to Sylvan Creek					SED		4.96
5104	Laundry Creek	Headwaters to Osier Creek					SED		4.39
5119	Marten Creek	Headwaters to Gravey Creek					SED		4.47
5123	Middle Creek	Headwaters to Weitas Creek					SED		13.32
5189	Sugar Creek	Headwaters to Swamp Creek					SED		3.99
5190	Swamp Creek	Headwaters to Osier Creek					SED		5.39

1998 303(d) List: Segments Listed for Sediment as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
5192	Sylvan Creek	Headwaters to French Creek		SED	4.31
5193	Tamarack Creek	Headwaters to Orogrande Creek		SED	3.92
5200	Tumble Creek	Headwaters to Washington Creek		SED	4.60
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	111.92

HUC#17060308

3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT	SED TEMP	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT	SED TEMP	20.85
3190	Elk Creek Reservoir		BAC	DO QALT HALT	NUT	SED TEMP	.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT	SED TEMP	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT	NUT	SED TEMP	7.36
3193	Reeds Creek	Headwaters to Dworshak Reservoir				SED	15.95
3197	Breakfast Creek	Headwaters to Clearwater R.		DO QALT HALT		SED	8.84
3198	Floodwood Creek	Headwaters to Breakfast Creek		DO QALT HALT		SED	13.59
3199	Stoney Creek	Headwaters to Breakfast Creek		DO QALT HALT		SED	12.23
5014	Beaver Creek	Headwaters to N Fk Clearwater R				SED	15.97
5016	Bertha Creek	Headwaters to Beaver Creek				SED	2.72
5020	Bingo Creek	Headwaters to Beaver Creek				SED	2.77
5063	Dog Creek	Headwaters to Isabella Creek				SED	3.88
5095	Isabella Creek	Headwaters to NF Clearwater				SED	8.54
5100	Johnson Creek	Tributary to Elk Creek				SED	3.27
5140	Partridge Creek	Headwaters to Elk Creek				SED	4.85
5181	Sourdough Creek	Headwaters to Beaver Creek				SED	3.12
5182	South Fork Beaver Creek	Headwaters to Beaver Creek				SED	4.75
5209	West Fork Elk Creek	Headwaters to Elk Creek				SED	3.50
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS		151.13

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 573
TOTAL MILES NEW TO 1998 303(d) LIST: 96.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 6,483.13

1998 303(d) List: Segments Listed for Total Dissolved Gas as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17010213					
3471	Clark Fork	Montana line to Pend Oreille Lake		QALT HALT MTU TDG	11.56
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	11.56
HUC#17010214					
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary		QALT SED TDG TEMP	21.81
7471	Pend Oreille Lake			TDG UNKN	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	21.81
HUC#17010216					
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary		QALT SED TDG TEMP	1.64
5657	Pend Oreille River	HUC boundary to Washington line		QALT SED TDG TEMP	3.03
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	4.67
HUC#17060306					
3139	Clearwater River	Confluence of North Fork to Washington line		TDG	40.03
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	40.03
HUC#17060308					
3184	North Fork Clearwater River	Dworshak Dam to conflu of Clearwater River		TDG	1.91
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	1.91

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 6
TOTAL MILES NEW TO 1998 303(d) LIST: 0.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 79.98

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS						POLLUTANT(S)			STREAM MILES
HUC#17010213												
7473	East Fork Creek	Headwaters to Lightning Creek			QALT	HALT				SED	TEMP	3.58
		NEW MILES	0.00						TOTAL MILES OF LISTED STREAMS			3.58
HUC#17010214												
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary			QALT					SED	TDG TEMP	21.81
3440	Hoodoo Creek	Hoodoo Lake to Pend Orielle R								SED	TEMP	9.80
3441	Hoodoo Creek	Headwaters to Hoodoo Lake								SED	TEMP	7.20
3442	Cocolalla Creek	Cocolalla Lake to Pend Oreille Rive								SED	TEMP	8.21
3443	Cocolalla Creek	Headwaters to Cocolalla Lake								SED	TEMP	15.01
7443	Fish Creek	Headwaters to Cocolalla Creek	BAC							SED	TEMP	5.09
		NEW MILES	0.00						TOTAL MILES OF LISTED STREAMS			67.12
HUC#17010215												
3415	East River	North Fk East River to Priest River		DO	QALT					SED	TEMP	2.43
3421	Kalispell Creek	WA line to Priest Lake								SED	TEMP	8.14
3424	Reeder Creek	Headwaters to Priest Lake								SED	TEMP	7.63
		NEW MILES	0.00						TOTAL MILES OF LISTED STREAMS			18.20
HUC#17010216												
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary			QALT					SED	TDG TEMP	1.64
5657	Pend Oreille River	HUC boundary to Washington line			QALT					SED	TDG TEMP	3.03
		NEW MILES	0.00						TOTAL MILES OF LISTED STREAMS			4.67
HUC#17010301												
3500	Prichard Creek	Barton Gulch to N Fk CdA River	BAC	DO		HALT		NUT O/G		SED	TEMP	10.20
		NEW MILES	0.00						TOTAL MILES OF LISTED STREAMS			10.20
HUC#17010303												
3535	Latour Creek	Headwaters to CdA River	BAC			HALT				SED	TEMP	16.31
4023	Coeur d'Alene River	Thompson Lake to CdA Lake		DO		HALT	MTU		pH	SED	TEMP	4.19
7535	Baldy Creek	Headwaters to Latour Creek	BAC			HALT				SED	TEMP	5.17
7536	Larch Creek	Headwaters to Latour Creek	BAC			HALT				SED	TEMP	1.44
		NEW MILES	0.00						TOTAL MILES OF LISTED STREAMS			27.11

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS			POLLUTANT(S)			STREAM MILES
HUC#17010304									
3581	West Fork Saint Maries River	Headwaters to St. Maries River					SED	TEMP	9.61
3593	Emerald Creek	Conflu of E & W Fks to St. Maries R			HALT		SED	TEMP	3.40
3596	Gold Center Creek	Windy Creek to Middle Fk St. Maries River			HALT		SED	TEMP	2.12
3622	Gold Creek	East Fk Gold Creek to St. Joe River			HALT	NUT	SED	TEMP	1.59
7575	Tank Creek	Headwaters to St. Joe River	BAC	DO			SED	TEMP	2.14
7576	Harvey Creek	Headwaters to St. Joe River	BAC	DO			SED	TEMP	3.44
7577	Blackjack Creek	Headwaters to St. Joe River	BAC	DO			SED	TEMP	1.96
7596	Flewsie Creek	Headwaters to M Fk St. Maries River					SED	TEMP	4.34
7598	Gramp Creek	Headwaters to Gold Center Creek	BAC				SED	TEMP	4.60
7606	Bear Creek	Headwaters to Marble Creek	BAC				SED	TEMP	2.47
7607	Little Bear Creek	Headwaters to Big Bear Creek	BAC				SED	TEMP	2.00
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			37.67
HUC#17010305									
3552	Spokane River	CdA Lake to Huetter			MTU			TEMP	3.45
3553	Spokane River	Huetter to Post Falls Bridge			MTU			TEMP	4.89
3554	Spokane River	Post Falls Bridge to WA border			MTU			TEMP	6.18
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			14.52
HUC#17040204									
2127	Spring Creek	Wyoming line to Teton River			QALT		SED	TEMP	12.60
2136	Fox Creek	Wyoming line to Teton River			QALT		SED	TEMP	9.18
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			21.78
HUC#17040205									
2046	Lava Creek	Headwaters to Grays Lake Outlet					SED	TEMP	7.07
2048	Corral Creek	Headwaters to Brockman Creek					SED	TEMP	4.29
2049	Sawmill Creek	Headwaters to Brockman Creek					SED	TEMP	3.07
2051	Sellars Creek	Confluence of South Fk Sellars to Willow Creek			QALT		SED	TEMP	4.22
2053	Long Valley Creek	Headwaters to Willow Creek					SED	TEMP	6.59
2054	Mill Creek	Headwaters to Willow Creek					SED	TEMP	6.39
2057	Seventy Creek	Headwaters to Willow Creek			QALT		SED	TEMP	3.06
		NEW MILES	0.00			TOTAL MILES OF LISTED STREAMS			34.69

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17040210								
2431	Raft River	Utah Line to Malta	BAC	DO QALT		SALSED	TEMP	42.19
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			42.19
HUC#17040211								
2447	Goose Creek	State line to Lower Goose Creek Reservoir	BAC	DO QALT	NUT	SED	TEMP	15.42
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			15.42
HUC#17040212								
2374	Snake River	Cedar Draw to Rock Creek				SED	TEMP	7.27
2378	Snake River	Milner Dam to Murtaugh	BAC	DO QALT		SED	TEMP	8.53
2380	Pioneer Reservoir		BAC	DO QALT	NH3 NUT	SED	TEMP	.00
2404	McMullen Creek	Headwaters to Cottonwood Creek	BAC	DO QALT	NUT	SED	TEMP	15.70
2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake	BAC	QALT		SED	TEMP	10.19
5173	Snake River	Cassia Gulch to Big Pilgrim Gulch			NUT	SED	TEMP	3.47
5174	Snake River	Clear Lakes Bridge to Cedar Draw				SED	TEMP	6.10
5175	Snake River	Deep Creek to Mud Creek				SED	TEMP	.11
5176	Snake River	King Hill to Big Pilgrim Gulch				SED	TEMP	9.31
5177	Snake River	Mud Creek to Clear Lakes Bridge				SED	TEMP	1.33
6374	Snake River	Shoshone Falls to Rock Creek				SED	TEMP	8.25
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			70.26
HUC#17040213								
2458	Salmon Falls Creek	Nevada line to Salmon Falls			NUT		TEMP	8.47
2466	Shoshone Creek	Magic Hot Springs to Nevada	BAC	DO		SED	TEMP	4.71
2468	Shoshone Creek	Cottonwood Creek to Big Creek	BAC	DO QALT	NUT	SED	TEMP	6.44
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			19.62
HUC#17040214								
2191	Camas Creek	Spring Creek to Highway 91		QALT HALT	NUT	SED	TEMP	37.21
2193	Beaver Creek	Dubois to Camas Creek		QALT HALT	NUT	SED	TEMP	15.44
2194	Beaver Creek	Spencer to Dubois		QALT HALT	NUT	SED	TEMP	16.90
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			69.55
HUC#17040215								
2206	Medicine Lodge Creek	Spring Hollow Creek to Small (town)		QALT		SED	TEMP	16.20

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
2212	Fritz Creek	Forks to Medicine Lodge Creek			NUT		TEMP	2.88
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			19.08
HUC#17040217								
2145	Wet Creek	Coal Creek to Little Lost River		QALT		SED	TEMP	15.89
2148	Sawmill Creek	Mill Creek to Little Lost River				SED	TEMP	12.31
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			28.20
HUC#17040218								
2161	Big Lost River	Moore Diversion to US 26		DO QALT	NUT	SED	TEMP	19.20
2167	Spring Creek	Springs to Big Lost River		DO QALT	NUT	SED	TEMP	17.11
2168	Antelope Creek	Spring Creek to Big Lost River		QALT		SED	TEMP	16.19
2180	East Fork Big Lost River	Headwaters to Starhope Creek				SED	TEMP	13.04
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			65.54
HUC#17040219								
2487	Rock Creek	Headwaters to Magic Reservoir	BAC	HALT		SED	TEMP	12.02
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			12.02
HUC#17050102								
2549	Bruneau River	Hot Creek to CJ Strike Reservoir		QALT	NUT	SED	TEMP	14.44
2551	Jacks Creek	Little Jacks Cr to CJ Strike Res		DO QALT	NUT	SED	TEMP	12.31
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			26.75
HUC#17050103								
2672	McBride Creek	Headwaters to Oregon Line		QALT		SED	TEMP	11.81
2679	Sinker Creek	Diamond Creek to Snake River	*ADD*	QALT		SED	TEMP	10.77
2680	Castle Creek	T5SR1ES28 to Snake River		QALT		SED	TEMP	12.78
6671	Succor Creek	Headwaters to Oregon Line		QALT		SED	TEMP	22.19
6681	Pickett Creek	Headwaters to T5SR1W32		QALT		SED	TEMP	11.52
		NEW MILES	8.51		TOTAL MILES OF LISTED STREAMS			69.07
HUC#17050104								
2613	Red Canyon	Headwaters to Owyhee River		QALT		SED	TEMP	5.22
2614	Deep Creek	Headwaters to Owyhee River				SED	TEMP	46.14
2616	Castle Creek	Headwaters to Deep Creek				SED	TEMP	11.15

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
2617	Pole Creek	Headwaters to Deep Creek		QALT		SED	TEMP	23.98
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			86.49
HUC#17050105								
2632	South Fork Owyhee River	Nevada Line to Owyhee River		QALT		SED	TEMP	32.33
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			32.33
HUC#17050107								
2640	Middle Fork Owyhee River	Headwaters to Oregon Line		QALT		SED	TEMP	8.64
2642	Squaw Creek	Headwaters to Oregon Line		QALT		SED	TEMP	13.05
2644	Juniper Creek	Headwaters to N Fk Owyhee River		QALT		SED	TEMP	11.72
2645	Pleasant Valley Creek	Headwaters to N Fk Owyhee River		QALT		SED	TEMP	10.79
2646	Noon Creek	Headwaters to N Fk Owyhee River				SED	TEMP	9.13
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			53.33
HUC#17050108								
2656	Rock Creek	Headwaters to Triangle Reservoir		QALT		SED	TEMP	17.28
2657	Meadow Creek	Headwaters to Rock Creek		QALT			TEMP	11.93
6656	Louisa Creek	Headwaters to Triangle Reservoir		QALT		SED	TEMP	8.16
6661	Cow Creek	Headwaters to Oregon Line		QALT		SED	TEMP	12.28
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			49.65
HUC#17050114								
2726	Boise River	Notus (town) to Snake River	BAC		NUT	SED	TEMP	15.83
2727	Boise River	Star (town) to Notus (town)	BAC		NUT	SED	TEMP	21.49
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			37.32
HUC#17050122								
2689	Payette River	Black Canyon Dam to Snake River	BAC		NUT		TEMP	39.22
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			39.22
HUC#17050123								
2895	Boulder Creek	Headwaters to Cascade Reservoir		DO QALT	NUT	SED	TEMP	20.46
6882	North Fork Payette River	Clear Creek to Smiths Ferry		QALT HALT	NUT	SED	TEMP	9.53
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			29.99

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS		POLLUTANT(S)			STREAM MILES
HUC#17050124								
2834	Weiser River	Galloway Dam to Snake River	BAC	DO	NUT	SED	TEMP	12.39
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	BAC	QALT	NUT	SED	TEMP	24.65
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			37.04
HUC#17050201								
2825	Dennett Creek	Headwaters to Snake River		QALT		SED	TEMP	6.46
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			6.46
HUC#17060108								
3122	Deep Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	12.16
3123	Flannigan Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	4.45
3126	Hatter Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	9.79
3128	Big Creek	Headwaters to Palouse River	BAC	QALT HALT	NUT	SED	TEMP	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	BAC	QALT HALT	NUT	SED	TEMP	13.42
3136	Cow Creek	Headwaters to Washington line		HALT	NUT		TEMP	18.50
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			85.54
HUC#17060201								
3009	Salmon River	Redfish Lake Cr to E Fk Salmon R				SED	TEMP	44.45
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			44.45
HUC#17060205								
2805	Elkhorn Creek	Headwaters to Middle Fk Salmon Rive		QALT		SED	TEMP	7.41
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			7.41
HUC#17060209								
3325	Maloney Creek	Headwaters to Salmon River	BAC	QALT	NUT	SED	TEMP	10.14
3326	Deep Creek	Headwaters to Salmon River	BAC	QALT HALT	NUT	SED	TEMP	11.66
		NEW MILES	0.00		TOTAL MILES OF LISTED STREAMS			21.80
HUC#17060210								
6875	Brundage Reservoir						TEMP	.00

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	.00
HUC#17060303					
3236	Lochsa River	Crooked Fk/Walton to Selway/MF Clea		TEMP	68.74
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	68.74
HUC#17060305					
3288	Cottonwood Creek	Headwaters to SF Clearwater	BAC DO HALT	NH3 NUT SED TEMP	31.19
3290	South Fork Cottonwood Creek	Headwaters to Cottonwood Creek	BAC HALT	NUT TEMP	6.96
3291	Threemile Creek	Headwaters to S Fk Clearwater River	BAC DO QALT HALT	NH3 NUT SED TEMP	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	BAC DO QALT HALT	SED TEMP	12.37
5185	South Fork Clearwater River	Red River to Clearwater River	HALT	SED TEMP	63.79
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	132.49
HUC#17060306					
3141	Lindsay Creek	Boundary to Clearwater River	BAC DO QALT HALT	NUT SED TEMP	7.35
3142	Hatwai Creek	Headwaters to Clearwater River	BAC HALT	NUT TEMP	7.93
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	BAC DO QALT HALT	NUT SED TEMP	16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	BAC DO QALT HALT	NUT ORG PST SED TEMP	19.53
3146	Webb Creek	Headwaters to IR Boundary	BAC DO QALT HALT	NUT SED TEMP	5.58
3148	Catholic Creek	Headwaters to Clearwater River	BAC DO QALT HALT	NH3 NUT ORG SED TEMP	9.60
3149	Potlatch River	Bear Creek to Clearwater River	BAC DO QALT HALT	NH3 NUT O/G ORG PST SED TEMP	14.13
3150	Potlatch River	Headwaters to Bear Creek	BAC QALT HALT	NUT SED TEMP	40.47
3155	Pine Creek	Headwaters to Potlatch River	BAC QALT HALT	NUT SED TEMP	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	BAC QALT HALT	NUT SED TEMP	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	BAC QALT HALT	NUT SED TEMP	2.14
3159	Moose Creek	Headwaters to Potlatch River	BAC QALT HALT	NUT pH SED TEMP	5.76
3162	Bedrock Creek	Headwaters to Boundary	BAC DO QALT HALT	NH3 NUT O/G SED TEMP	6.08
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	BAC QALT HALT	NUT SED TEMP	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	BAC DO QALT HALT	NH3 NUT O/G SED TEMP	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	BAC QALT HALT	NUT SED TEMP	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	BAC DO QALT HALT	NUT O/G SED TEMP	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	BAC QALT HALT	NUT SED TEMP	13.33

1998 303(d) List: Segments Listed for Temperature as a Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
3179	Sixmile Creek	Headwaters to Clearwater River	BAC	DO QALT HALT NH3 NUT O/G ORG PST SED TEMP	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	BAC	DO QALT HALT NH3 NUT O/G SED TEMP	7.30
4010	Pine Creek	Headwaters to Boundary	BAC	DO QALT HALT NUT SED TEMP	10.01
5125	Middle Potlatch Creek	Headwaters to Potlatch River	BAC	QALT HALT NUT SED TEMP	16.42
7143	Winchester Lake		BAC	DO QALT HALT NUT PST SED TEMP	.00
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	BAC	DO QALT HALT NH3 ORG PST TEMP	19.45
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	304.66
HUC#17060307					
3225	Osier Creek	Headwaters to Moose Creek		QALT HALT SED TEMP	8.09
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	8.09
HUC#17060308					
3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT NUT SED TEMP	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT NUT SED TEMP	20.85
3190	Elk Creek Reservoir		BAC	DO QALT HALT NUT SED TEMP	.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT NUT SED TEMP	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	BAC	QALT HALT NUT SED TEMP	7.36
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	47.15

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 145
TOTAL MILES NEW TO 1998 303(d) LIST: 9.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 1,769.40

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
HUC#16010201						
5251	North Creek	Unnamed trib 3.2 km below Mill Hollow to Ovid Cr	*ADD*		UNKN	8.05
		NEW MILES	8.05	TOTAL MILES OF LISTED STREAMS		8.05
HUC#16010202						
5252	Deep Creek	Oxford Slough to Bear River	*ADD*		UNKN	10.20
5253	Fivemile Creek	Headwaters to Bear River	*ADD*		UNKN	10.96
5254	Worm Creek	Glendale Reservoir to Utah line	*ADD*		UNKN	12.85
5255	Maple Creek	Left Fork to Cub River	*ADD* BAC		UNKN	8.14
5256	Strawberry Creek	Forest Service boundary to Mink Creek	*ADD*		UNKN	5.31
		NEW MILES	47.46	TOTAL MILES OF LISTED STREAMS		47.46
HUC#16010204						
5257	Deep Creek	Headwaters to mouth	*ADD*		UNKN	13.95
5258	Elkhorn Creek	Forest Service bnd to Little Malad River	*ADD*		UNKN	2.27
5259	Dairy Creek	Headwaters to Wright Creek	*ADD*		UNKN	12.03
		NEW MILES	28.25	TOTAL MILES OF LISTED STREAMS		28.25
HUC#17010214						
7471	Pend Oreille Lake			TDG	UNKN	.00
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS		.00
HUC#17010215						
3411	Lower West Branch Priest River	WA line to Priest River			UNKN	15.49
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS		15.49
HUC#17010301						
3504	Shoshone Creek	Sentinel Creek to N Fk CdA River			UNKN	13.53
5643	Lost Creek	Headwaters to North Fk CdA River	*ADD*		UNKN	8.35
		NEW MILES	8.35	TOTAL MILES OF LISTED STREAMS		21.88
HUC#17010302						
5618	East Fork Ninemile Creek	Headwaters to Ninemile Creek	*ADD*		UNKN	4.38

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
		NEW MILES	4.38	TOTAL MILES OF LISTED STREAMS		4.38
HUC#17010304						
3580	Saint Maries River	Clarkia to Mashburn (town)			UNKN	19.75
5620	Loop Creek	Headwaters to North Fk St. Joe River	*ADD*	SED	UNKN	12.11
		NEW MILES	12.11	TOTAL MILES OF LISTED STREAMS		31.86
HUC#17040104						
5241	Camp Creek	Headwaters to Fall Creek	*ADD*		UNKN	4.57
5242	Little Elk Creek	Headwaters to Palisades Reservoir	*ADD*		UNKN	4.52
5244	North Fork Indian Creek	Wyoming line to Indian Creek	*ADD*		UNKN	1.08
5245	Bear Creek	Headwaters to North Fk Bear Creek	*ADD*		UNKN	12.02
5246	Elk Creek	Headwaters to West Fk Elk Creek	*ADD*		UNKN	3.28
5247	Fall Creek	Headwaters to S Fk Fall Creek	*ADD*		UNKN	12.18
5653	Sheep Creek	Headwaters to S Fk Snake River	*ADD*		UNKN	5.37
		NEW MILES	43.02	TOTAL MILES OF LISTED STREAMS		43.02
HUC#17040105						
5266	Boulder Creek	Headwaters to Stump Creek	*ADD*		UNKN	6.54
		NEW MILES	6.54	TOTAL MILES OF LISTED STREAMS		6.54
HUC#17040201						
5250	Birch Creek	Unnamed trib in T2N, R41E, Section 2 to sink	*ADD*		UNKN	10.61
		NEW MILES	10.61	TOTAL MILES OF LISTED STREAMS		10.61
HUC#17040204						
5230	North Leigh Creek	Wyoming line to Spring Creek	*ADD*		UNKN	4.90
5231	Dry Creek	Wyoming line to Bitch Creek	*ADD*		UNKN	7.57
		NEW MILES	12.47	TOTAL MILES OF LISTED STREAMS		12.47
HUC#17040205						
5232	Buck Creek	Headwaters to Mill Creek	*ADD*		UNKN	2.60
		NEW MILES	2.60	TOTAL MILES OF LISTED STREAMS		2.60

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17040206					
5263	Knox Creek	Headwaters to Bannock Creek	*ADD*	UNKN	11.31
		NEW MILES 11.31		TOTAL MILES OF LISTED STREAMS	11.31
HUC#17040207					
5267	Brush Creek	Headwaters to Blackfoot River	*ADD*	UNKN	15.34
5268	Grizzly Creek	Headwaters to Corral Creek	*ADD*	UNKN	7.44
5269	Maybe Creek	Maybe Canyon waste dump to Dry Valley Creek	*ADD*	UNKN	2.85
		NEW MILES 25.63		TOTAL MILES OF LISTED STREAMS	25.63
HUC#17040208					
5270	Indian Creek	Forest Service bnd to Portneuf River	*ADD*	UNKN	3.47
5271	Arkansas Creek	Headwaters to Marsh Creek	*ADD*	UNKN	5.40
		NEW MILES 8.87		TOTAL MILES OF LISTED STREAMS	8.87
HUC#17040209					
5272	Marsh Creek	Land Creek to mouth	*ADD*	UNKN	19.98
5273	South Fork Rock Creek	Headwaters to Rock Creek	*ADD*	UNKN	31.55
		NEW MILES 51.53		TOTAL MILES OF LISTED STREAMS	51.53
HUC#17040210					
7612	Fall Creek	Headwaters to Lake Fork	*ADD*	UNKN	2.29
		NEW MILES 2.29		TOTAL MILES OF LISTED STREAMS	2.29
HUC#17040211					
5275	Cold Creek	Headwaters to Goose Creek	*ADD*	UNKN	8.27
5277	Blue Hill Creek	Headwaters to Goose Creek	*ADD*	UNKN	5.71
5278	Beaverdam Creek	Right Hand Fork Beaverdam Creek to Goose Creek	*ADD*	UNKN	5.38
5280	Big Cottonwood Creek	Billys Hole to mouth	*ADD*	UNKN	13.12
		NEW MILES 32.48		TOTAL MILES OF LISTED STREAMS	32.48
HUC#17040212					
5286	Deep Creek	High Line Canal to Snake River	*ADD* BAC	UNKN	19.43

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
5287	Toolbox Creek	Headwaters to Fifth Fk Rock Creek	*ADD*	UNKN	.46
5646	Cedar Draw	Headwaters to Snake River	*ADD* BAC	UNKN	15.72
5647	Mud Creek	Low Line Canal to Snake River	*ADD* BAC	UNKN	11.80
		NEW MILES 47.41		TOTAL MILES OF LISTED STREAMS	47.41
HUC#17040213					
5282	Horse Creek	Headwaters to Shoshone Creek	*ADD*	UNKN	8.44
5285	Hopper Gulch	Headwaters to Shoshone Creek	*ADD*	UNKN	2.54
		NEW MILES 10.98		TOTAL MILES OF LISTED STREAMS	10.98
HUC#17040214					
5233	Cow Creek	Headwaters to Thunder Gulch	*ADD*	UNKN	4.85
		NEW MILES 4.85		TOTAL MILES OF LISTED STREAMS	4.85
HUC#17040217					
5656	Little Lost River	Big Spring Creek to canal	*ADD*	TEMP UNKN	26.12
5660	Little Lost River	Headwaters to Big Spring Creek	*ADD*	UNKN	5.77
		NEW MILES 31.89		TOTAL MILES OF LISTED STREAMS	31.89
HUC#17040218					
5236	Little Boone Creek	Headwaters to E Fk Little Lost R	*ADD*	UNKN	2.38
5237	Warm Springs Creek	Spring to Mackay Reservoir	*ADD*	UNKN	8.65
		NEW MILES 11.03		TOTAL MILES OF LISTED STREAMS	11.03
HUC#17040219					
5290	Owl Creek	Headwaters to Big Wood River	*ADD*	UNKN	4.86
5291	Eagle Creek	Headwaters to Big Wood River	*ADD*	UNKN	6.34
5292	Baker Creek	Headwaters to Norton Creek	*ADD*	UNKN	4.45
5293	Placer Creek	Headwaters to Warm Springs Creek	*ADD*	UNKN	4.31
5294	Greenhorn Creek	Headwaters to Big Wood River	*ADD*	UNKN	7.75
5295	East Fork Wood River	Headwaters to Blind Canyon	*ADD*	UNKN	3.79
5296	Cove Creek	Headwaters to East Fk Wood River	*ADD*	UNKN	6.91
5297	Quigley Creek	Headwaters to mouth	*ADD*	UNKN	7.25
5298	Seamans Creek	Headwaters to Big Wood River	*ADD*	UNKN	12.31
5299	East Fork Rock Creek	Headwaters to Rock Creek	*ADD*	UNKN	3.06
5300	Thorn Creek	Thorn Reservoir to Schooler Creek	*ADD*	UNKN	7.59

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)		STREAM MILES
7613	Horse Creek	Headwaters to Big Wood River	*ADD*		UNKN	2.23
7614	Lake Creek	Headwaters to Big Wood River	*ADD*		UNKN	5.22
		NEW MILES	76.07	TOTAL MILES OF LISTED STREAMS		76.07
HUC#17040220						
5301	Little Beaver Creek	Headwaters to Beaver Creek	*ADD*		UNKN	4.34
5302	Camp Creek	Headwaters to Camas Creek	*ADD*		UNKN	12.65
5303	Willow Creek	Beaver Creek to Camas Creek	*ADD*		UNKN	9.04
5304	Elk Creek	Base Line Road to Camas Creek	*ADD*		UNKN	2.46
5305	McKinney Creek	Headwaters to Mormon Reservoir	*ADD*		UNKN	10.11
5306	Corral Creek	Highway 20 to Camas Creek	*ADD*		UNKN	3.98
5307	Cow Creek	Headwaters to Cow Creek Reservoir	*ADD*		UNKN	2.91
5308	Wild Horse Creek	Highway 20 to Camas Creek	*ADD*		UNKN	2.71
5309	Beaver Creek	Headwaters to Willow Creek	*ADD*		UNKN	5.98
		NEW MILES	54.18	TOTAL MILES OF LISTED STREAMS		54.18
HUC#17040221						
5288	Muldoon Creek	South Fk Muldoon Creek to Little Wood River	*ADD*		UNKN	3.56
5289	Loving Creek	Headwaters to Silver Creek	*ADD*		UNKN	4.05
		NEW MILES	7.61	TOTAL MILES OF LISTED STREAMS		7.61
HUC#17050101						
5641	Bennett Creek	Headwaters to Snake River	*ADD*		UNKN	32.41
5642	Cold Springs Creek	Ryegrass Creek to Snake River	*ADD*		UNKN	7.03
		NEW MILES	39.44	TOTAL MILES OF LISTED STREAMS		39.44
HUC#17050113						
5639	Little Smoky Creek	Headwaters to Carrie Creek	*ADD*		UNKN	11.32
		NEW MILES	11.32	TOTAL MILES OF LISTED STREAMS		11.32
HUC#17050114						
5637	Willow Creek	Headwaters to Boise River	*ADD*		UNKN	51.49
5638	Cottonwood Creek	Headwaters to Freestone Creek	*ADD*		UNKN	6.82
		NEW MILES	58.31	TOTAL MILES OF LISTED STREAMS		58.31

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17050122					
5635	Big Willow Creek	Rock Creek to Payette River	*ADD*	UNKN	23.46
		NEW MILES	23.46	TOTAL MILES OF LISTED STREAMS	23.46
HUC#17050123					
5625	Brush Creek	Headwaters to North Fk Payette River	*ADD*	UNKN	5.06
5626	Landing Creek	Headwaters to Deadhorse Creek	*ADD*	UNKN	2.42
5627	Elip Creek	Headwaters to Lemah Creek	*ADD*	UNKN	3.00
5628	Lake Fork	Headwaters to Cascade Reservoir	*ADD*	UNKN	25.93
5629	Willow Creek	Headwaters to Cascade Reservoir	*ADD*	UNKN	8.18
5631	Duck Creek	Headwaters to Cascade Reservoir	*ADD*	UNKN	2.07
5632	Van Wyck Creek	Headwaters to Cascade Reservoir	*ADD*	UNKN	2.47
5633	Tripod Creek	Headwaters to North Fk Payette River	*ADD*	UNKN	5.40
		NEW MILES	54.53	TOTAL MILES OF LISTED STREAMS	54.53
HUC#17050124					
5623	South Crane Creek	Headwaters to Crane Creek Reservoir	*ADD*	UNKN	9.17
5624	West Fork Weiser River	Headwaters to Weiser River	*ADD*	UNKN	15.88
5636	Johnson Creek	Headwaters to Weiser River	*ADD*	UNKN	13.69
		NEW MILES	38.74	TOTAL MILES OF LISTED STREAMS	38.74
HUC#17060201					
5226	Lost Creek	Headwaters to sink	*ADD*	UNKN	4.45
5227	Kinnikinic Creek	Sawmill Creek to Salmon River	*ADD*	UNKN	2.99
7009	Road Creek	Headwaters to E Fk Salmon River		UNKN	15.77
		NEW MILES	7.44	TOTAL MILES OF LISTED STREAMS	23.21
HUC#17060203					
2964	Salmon River	Pahsimeroi River to Salmon River, N		UNKN	67.59
5240	Diamond Creek	Headwaters to Salmon River	*ADD*	UNKN	4.70
		NEW MILES	4.70	TOTAL MILES OF LISTED STREAMS	72.29
HUC#17060204					
5264	Short Creek	Headwaters to Bear Valley Creek	*ADD*	UNKN	1.83
5265	Cruikshank Creek	Headwaters to Canyon Creek	*ADD*	UNKN	3.21
		NEW MILES	5.04	TOTAL MILES OF LISTED STREAMS	5.04

1998 303(d) List: Segments Listed for an Unknown Pollutant

WQLSEG	WATERBODY	BOUNDARIES	ADDS	POLLUTANT(S)	STREAM MILES
HUC#17060207					
3346	Salmon River	Corn Creek to Cherry Creek		UNKN	76.90
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	76.90
HUC#17060208					
2959	Rice Creek	Headwaters to Salmon River, S.F.		UNKN	6.36
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	6.36
HUC#17060210					
2863	Little Salmon River	Round Valley Creek to Salmon River		UNKN	24.89
2865	Squaw Creek	Headwaters to Little Salmon		UNKN	5.61
		NEW MILES	0.00	TOTAL MILES OF LISTED STREAMS	30.50
HUC#17060305					
5221	Long Haul Creek	Headwaters to S Fk Cottonwood Creek	***ADD***	UNKN	1.64
5644	Shebang Creek	Headwaters to Cottonwood Creek	***ADD***	UNKN	14.56
		NEW MILES	16.20	TOTAL MILES OF LISTED STREAMS	16.20
HUC#17060306					
5222	Texas Creek	Headwaters to Lolo Creek	***ADD***	UNKN	5.71
5223	Schmidt Creek	Headwaters to Lolo Creek	***ADD***	UNKN	4.48
5224	Boulder Creek	Pig Creek to Potlatch River	***ADD***	UNKN	2.83
		NEW MILES	13.02	TOTAL MILES OF LISTED STREAMS	13.02

1998 303(d) LIST SUMMARY

TOTAL NUMBER OF SEGMENTS ON 1998 303(d) LIST: 109
TOTAL MILES NEW TO 1998 303(d) LIST: 832.00

TOTAL MILES OF STREAM NOT SUPPORTING BENEFICIAL USES: 1,078.06

CHAPTER THREE

Temperature Issue Analysis

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ABSTRACT

This issue analysis was undertaken to document apparent inconsistencies between water temperatures that exceed criteria in the Idaho Water Quality Standards and Wastewater Treatment Requirements and fish data that indicate viable, self-sustaining assemblages exist. The climatic and geographic diversity of Idaho was evaluated as a primary factor affecting natural stream temperature regimes. Sources of measurement error are discussed and small-scale heterogeneity and thermal refugia in streams are presented as factors which compound measurement of biologically relevant water temperature. Ninety-eight comparisons of water temperature records and fish data were made with data collected from the Little Lost River drainage, Owyhee County drainages, and the Lochsa River drainage. In over 50% of the comparisons, criteria exceedances were documented and the affected cohorts of salmonids were represented in length frequency distributions. In these instances, salmonid spawning has occurred coincidentally with criteria exceedances. In the instances where fish data were collected more than one year after the temperature was measured, these data also indicate that rearing has occurred.

The current water temperature criteria for Idaho appear to be not working well since they do not comport with biological reality in many instances. We suspect the reasons for this are 1) fixed criteria that do not allow for environmental or species diversity, and 2) the manner in which stream temperatures are measured and summarized. A comprehensive study is needed to further document this issue and to provide a scientific basis for water quality standard revision. A temperature measurement protocol needs to be written to assure the quality and relevance of temperature data.

IDAHO AQUATIC LIFE TEMPERATURE CRITERIA

"For too long we have sought some 'magic number' which, if met, would protect all aquatic life. Clear-thinking scientists and engineers have known for some time that the many species of fish and other aquatic animals vary greatly in their individual tolerances and sensitivities. Some of the confusion can be eliminated if we consider the requirements, for example, of the coho salmon, the northern pike, white bass, carp, etc., and stop searching for a single thermal requirement for 'aquatic life' in general." (Mount 1969).

3.1 INTRODUCTION

Barthalow (1989) describes the physical factors affecting stream temperatures as used in the Instream Water Temperature Model (SNTEMP) (Theurer and others 1984), and reports the results of a sensitivity analysis of the SNTEMP. When predicting mean daily water temperature, air temperature is the most sensitive input variable. Relative humidity is the next most sensitive input variable, accounting for less than half as much change in stream temperature. Percent shade follows a close third to relative humidity. When predicting maximum daily water temperature, air temperature is just as important, but percent shade, which affects diurnal range, overtakes relative humidity as the second most sensitive variable. For both measures, stream flow is the fourth most sensitive variable and "water temperature is very sensitive to changes in air temperature when stream flow is low."

There is little allowance in Idaho's current aquatic life temperature criteria for the biological and physical diversity that exists in Idaho. Criteria that work in north Idaho mountains may not apply as well to southern valleys and plains. Nor is there allowance for climatic swings which bring periodic drought and heat waves, and normal summertime peaks. Likewise, there is insufficient allowance for the continuum of preferences between species, only the gross categories of cold and warm water species. Water quality standards need to be dynamic enough to incorporate new findings from advances in technology. These gross categories may have served the state well when the water quality standards were first written, but appear to be inadequate today. Abiotic factors often define the natural range of a species, at the limits of that range individuals exist under marginal conditions. It should not be surprising that when we evaluate stream temperature records against current criteria and also look at aquatic life populations we find incongruities.

Below we present an overview of Idaho's climatic variations, the complexities of accurate and biologically relevant stream temperature measurement, and give several examples where stream temperatures sometimes exceed Idaho's current water temperature criteria. In spite of these exceedances, the existing aquatic life appears to be self propagating with juveniles and multiple age classes represented.

In this paper, the reader will find a mix of Fahrenheit (°F) and centigrade (°C) temperatures used. Air temperature records are customarily reported in Fahrenheit (°F), a long standing convention that is maintained herein. To do otherwise would result in unusual conversions, such as number of days above 32.2°C, rather than 90°F. On the other hand stream temperatures and the criteria they are compared to are given in degrees centigrade (°C), largely because those are the units used in Idaho's water quality standards. This use reflects the more recent origin of water temperature criteria. Table 3.1 gives some equivalent readings on the these two temperature scales.

TABLE 3.1. EQUIVALENT READINGS ON THE FAHRENHEIT AND CENTIGRADE TEMPERATURE SCALES.

Fahrenheit (°F)	centigrade (°C)	Fahrenheit (°F)	centigrade (°C)
32	0	55.4	13
41	5	59	15
48.2	9	66.2	19
50	10	71.6	22

3.2 GEOGRAPHY, CLIMATE AND STREAM TEMPERATURE

Spatial variation

Idaho covers a vast and varied geographic range. The state spans seven degrees of latitude from 42°N at its southern border with Nevada to 49°N at its northern border with Canada. Elevations range from 738' where the Snake River leaves Idaho to the 12,662' Borah Peak in east central Idaho, although most of Idaho falls in a narrower band of 2500' to 7500'. With geographic variation comes climatic variation, and a range in climate translates to range in stream temperature.

It is commonly known that climates cool as one heads north. Landsberg (1958) reported that average annual air temperature decreases about 1.5° F (0.8°C) for each 1 degree increase in latitude in the middle latitudes (40-50°N) of the northern hemisphere. Thus, based on latitude alone one would expect it to be several degrees cooler at Idaho's northern extreme than at its southern bound. Similarly a decrease of about 3°F for each 1000' increase in elevation (6°C/1000 m) is a typical mid-latitude environmental lapse rate (Daubenmire 1974). Idaho's valleys are likely 10-20°F warmer than mountain locations at any given time. Furthermore, the uplift created by mountainous terrain leads to more clouds and greater precipitation at higher elevations (Miller and Thompson 1975), reducing the direct solar input that can be expected in mountain streams.

Table 3.2 documents the range in Idaho's climate at representative reporting stations. In the south, the arid Snake River Plain receives less than 12" of precipitation per year, almost entirely during winter months, and temperatures over 100°F occur each summer (WRCC 1998). To the north, the Panhandle mountains can receive over 80" of precipitation, mostly as snow, and temperatures over 90°F are infrequent. All of Idaho is quite arid during the summer, with many cloudless days, but this pattern intensifies from northeast to southwest, and from mountains to valleys.

Although the above text describes general climate trends across Idaho, there are also important local variations which may affect stream temperatures. The weather reporting stations located at Headquarters and Howe, for example, have the same annual temperature even though separated by about three degrees of latitude and at similar elevation. This occurs because Howe is a sunnier and warmer location in summer, as evidenced by its lower July precipitation and greater growing degree days (Table 3.2). Elevation and latitude changes can offset one another. For example, Boise, three degrees latitude south of Lewiston and twice the elevation, is similar in degree days.

TABLE 3.2. SELECTED CLIMATE DATA FOR A RANGE OF METEOROLOGICAL STATIONS IN IDAHO (ABRAMOVICH AND OTHERS 1998)

Station	North Latitude	Elevation (feet)	Mean Annual Temp °F	Average July Precip.		Annual Degree Days[2] (40°F base)
				Total	Days with ≥0.1"	
Boise WSFO[1]	43:34	2840	50.9	0.36	1	5021
Bonner's Ferry	48:42	1780	46.4	0.89	3	3662
Couer d'Alene	47:41	2160	48.4	0.86	2	4107
Dixie	45:33	5620	36.0	1.20	3	1749
Elk City RS	45:50	4060	41.0	1.46	4	2490
Fenn RS	46:06	1590	48.9	1.08	3	4187
Glenns Ferry	42:56	2510	51.8	0.24	0	5190
Headquarters	46:38	4150	43.3	1.14	2	2667
Howe	43:47	4384	43.3	0.73	1	3621
Idaho Falls	43:31	4457	43.6	0.62	1	3643
Jerome	42:44	3740	49.3	0.25	0	4693
Lewiston WSO	46:23	1440	52.7	0.67	1	5302
Powell	46:31	3630	42.6	1.28	4	2878
Riggins	45:25	1800	54.4	0.82	2	5695
Salmon	45:11	3930	45.5	1.01	3	3949
Stanley	44:13	6720	35.3	0.83	2	1820
Swan Falls PH	43:15	2320	55.3	0.26	0	6266
Wallace WP	47:30	2940	44.5	1.29	3	3211
Yellow Pine 7S	44:47	5100	39.1	1.16	2	2198

[1]Climatic data for **stations in boldface** based on 1961-1990 period (NCDC climatic normals), other stations are based on data of record between 1961-1990.

[2]Degree days are the sum of the differences between daily mean temperature and a base temperature. A day with a high of 80°F and a low of 50°F would have a daily mean temperature of 65°F, and 25 degree days using a 40°F base. Degree days are a measure of cumulative warmth (see text).

Degree days (far right column in Tables 3.2 & 3.3) are a means to quantify cumulative warmth in a season or year at a given location. It is a measure that takes into account both magnitude and duration of departure from a chosen threshold temperature. Degree days originated as a way to predict residential heating and cooling needs and are also used to predict an area's suitability for growing certain crops or the day of maturation of a crop in a given year (Trewartha 1968).

The degree day concept provides a single quantity that is better at characterizing station warmth than annual average temperature. As with crops, the concept may be useful in water quality assessment to evaluate the potential of a particular stream to achieve or maintain a temperature

below a threshold (criteria). Degree days could be used to account for warm and cold years and the resulting variation in stream temperatures.

When a meaningful threshold temperature is used, degree days are particularly useful. If one's goal is to maintain stream temperature at or below 50°F (10°C), then degree days based on 50°F (far right column Table 3.3) seem best for comparing station warmth. Degree days provide one basis for evaluating the feasibility of that goal. By this measure, the valley locations of Boise and Lewiston are nearly five times as warm as Dixie, at 5620' elevation in the mountains.

TABLE 3.3. SUMMER TEMPERATURES (°F) FOR A RANGE OF METEOROLOGICAL STATIONS IN IDAHO (WESTERN REGIONAL CLIMATE CENTER 1998)[1]

Station	North Latitude	Elevation	Mean July Max	Mean July Min	Ave. # of Days/year with Max >90°F	Annual Degree Days[2] (50°F base[3])
Boise WSFO	43:34	2840	90.1	58.0	44	2805
Bonner's Ferry	48:42	1780	83.5	49.8	18	1783
Couer d'Alene	47:41	2160	85.2	52.5	25	2074
Dixie	45:33	5620	75.9	36.9	1	564
Elk City RS	45:50	4060	80.7	40.5	12	1020
Fenn RS	46:06	1590	88.5	50.2	41	2249
Glenns Ferry	42:56	2510	95.3	55.4	69	2949
Headquarters	46:38	4150	80.9	44.4	13	1252
Howe	43:47	4384	86.5	50.2	23	1870
Idaho Falls	43:31	4457	85.8	51.0	22	1876
Jerome	42:44	3740	90.8	55.4	48	2597
Lewiston WSO	46:23	1440	88.7	58.6	40	2849
Powell	46:31	3630	82.4	44.3	19	1305
Riggins	45:25	1800	92.3	58.4	58	3229
Salmon	45:11	3930	87.9	50.8	35	2061
Stanley	44:13	6720	77.9	35.8	2	597
Swan Falls PH	43:15	2320	96.1	63.1	77	3793
Wallace WP	47:30	2940	80.1	47.6	12	1445
Yellow Pine 7S	44:47	5100	79.4	39.0	6	816

[1]Climatic data are based on the period of record for each station and were obtained online at *http://www.wrcc.dri.edu* on 9-14-98.

[2]Degree days are the sum of the differences between daily mean temperature and a base temperature. A day with a high of 80°F and a low of 50°F would have a daily mean temperature of 65°F, and 15 degree days using a 50°F base.

[3]Fifty °F equals 10 °C, the Environmental Protection Agency bull trout criterion for Idaho.

Temporal variation

Temporal variation in air temperature can be described in four time scales: daily or diel, between days, seasonal, and between years. Some temporal variations are very predictable in an aggregate or climatic sense. We expect days to be warmer than nights and summers warmer than winters. There is a cycle of temperature driven by solar cycles. There are parallel cycles to stream temperature as well. However, overlying these cycles are weather events which cause departure from the expected or norm. These departures can be extreme (floods, droughts, heat waves etc.), causing havoc in human as well as plant and animal communities.

For example, July 28 is on average the warmest day of the year in Boise, but this is no guarantee the hottest day of any given year will occur on that day. An illustration of variability between days (Figure 3.1) is the departure of 1998 Boise air temperature from recent climatic normals. An example of air temperature variability between years is provided in Figure 3.2. Although this example is specific to eastern Idaho, most of the recent decade has been warmer than is normal in Idaho. Later it will be shown many of these warm years have been drier than normal as well. This has undoubtedly had an affect on stream temperatures.

The substantial variation between days and years in weather are unpredictable and can only be addressed in a stochastic sense. With adequate records, the probabilities of crossing certain thresholds can be estimated, e.g., one out of 10 years will have frost before September 15, or as frequencies, e.g., number of days above 90°F. This accepted concept in climatology applies as well to stream temperature. We lack the long term data to apply this concept directly to water temperature. However, meteorological records can provide a useful surrogate for identifying times of extreme natural conditions. Under these conditions, it would be reasonable to expect that fixed temperature criteria would be exceeded and such exceedances could be excused.

Seasonal and diel differences are also apparent among locations. Lewiston is warmer than Boise on an annual average, but its summer days are a bit cooler (see Table 3.2). While the Lewiston WSO and Fenn RS share a very similar average air temperature maximum for July and nearly the same frequency of 90°F days, Fenn's nighttime lows average more than 8°F lower in July. This is likely a result of cold air drainage from nearby mountain slopes, an important aspect of the area's thermal regime. These typically cooler nights may affect that area's suitability for particular species.

FIGURE 3.1. 1998 DAILY DEPARTURE FROM CLIMATIC NORMS OF AIR TEMPERATURE AT BOISE

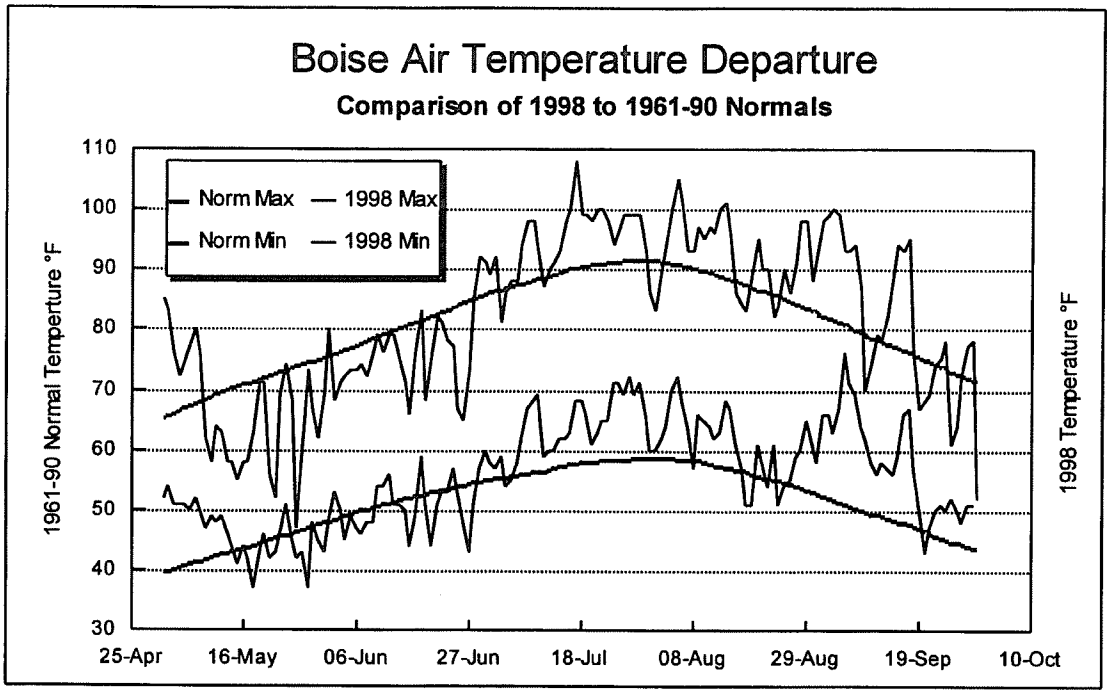
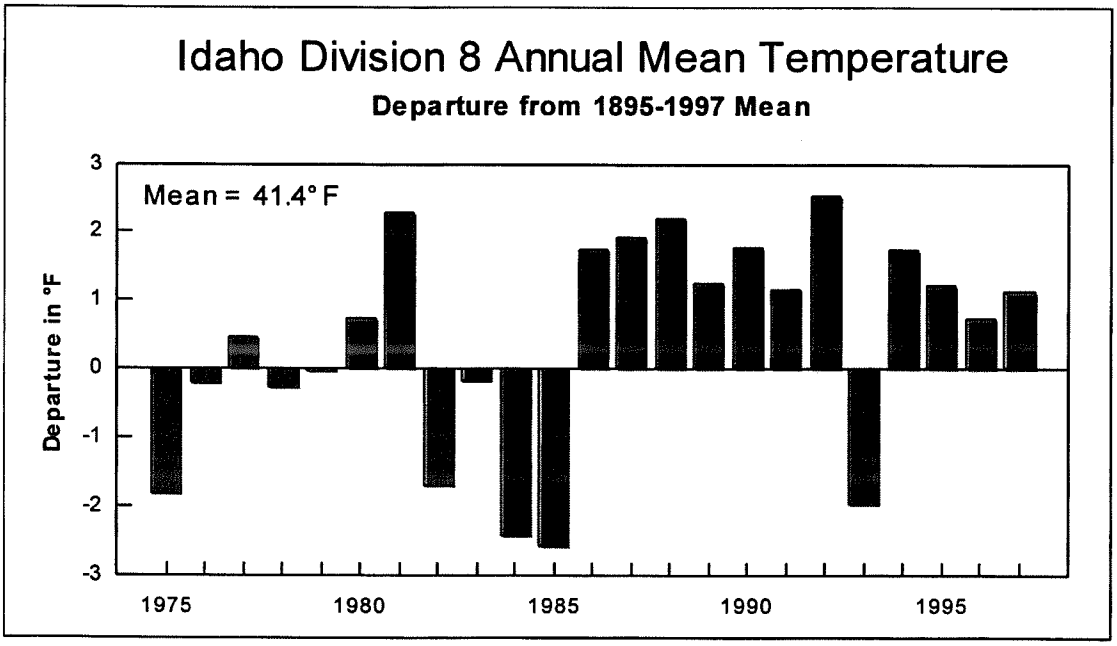


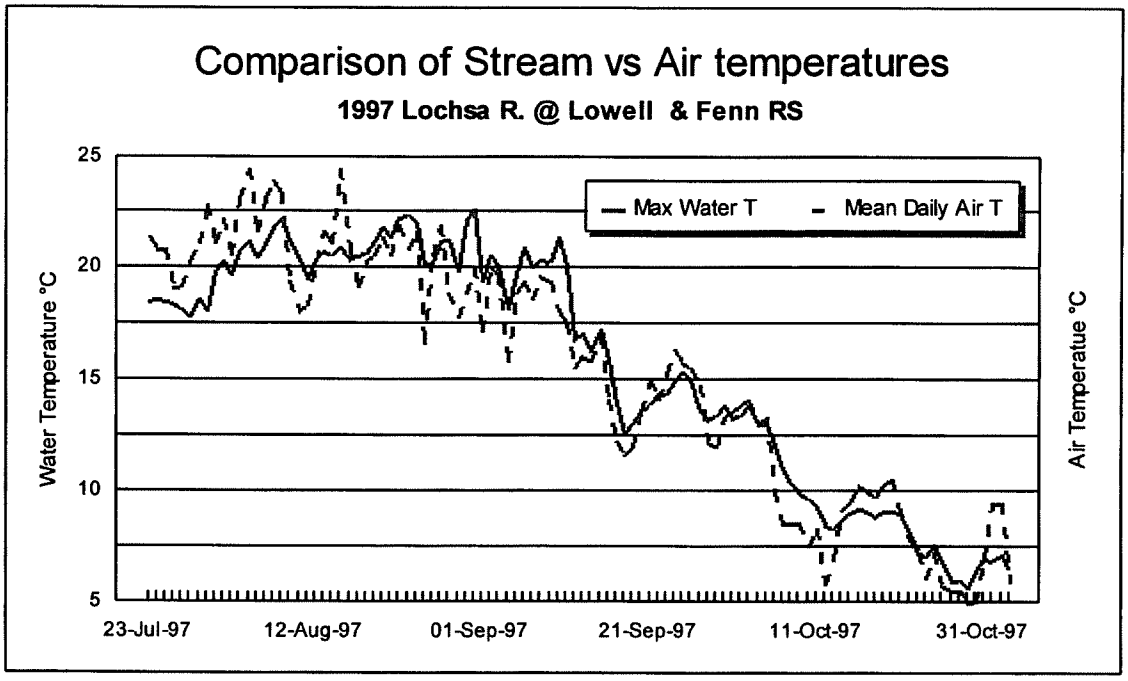
FIGURE 3.2. RECENT AIR TEMPERATURE VARIABILITY BETWEEN YEARS IN EASTERN IDAHO



Relation of climate to stream temperature

Several scientists have shown the close relation between air and stream temperature (Collins 1925, Mangan 1946, Moore 1967, Smith and Lavis 1975, Smith 1981, Crisp and Howson 1982, Sinokrot and Stefan 1994). This relation is observed in daily as well as monthly records and appears to be particularly strong in larger rivers. Figure 3.3 demonstrates the strong relation between air and water temperatures in the Lochsa River drainage. Kothandaraman (1971) constructed an empirical, rather than energy balance, model to predict daily stream temperatures within 1°C of observed data based on meteorological data alone.

FIGURE 3.3. COMPARISON OF 1997 STREAM AND AIR TEMPERATURES IN THE LOCHSA RIVER DRAINAGE



Theoretical or energy balance models predict stream temperatures based on physical processes and basic input variables. Barthalow (1989) ranks air temperature as the most influential input variable in the SNTEMP stream temperature model. Sinokrot and Stefan (1994), in a sensitivity analysis of the MNSTREM (Stefan and others 1980), also found air temperature to be most important, followed by solar radiation.

Exposure to direct solar radiation is also important. In a study of Oregon streams, Moore (1967) found east-west oriented streams to be 4-8°F (2.2-4.4°C) warmer than comparable streams with a north-south aspect. In fact, this difference in aspect accounted for the summertime elevation of mean monthly water temperatures above the mean monthly air temperature in east-west streams.

In a classic study of smaller forested streams, Brown (1969) was able to accurately predict the increase in stream temperature as a result of removal of forest canopy shading. In a recent study of small pasture streams in New Zealand, the predominant effect of shade removal was on daily maximum stream temperature (Rutherford and others 1997).

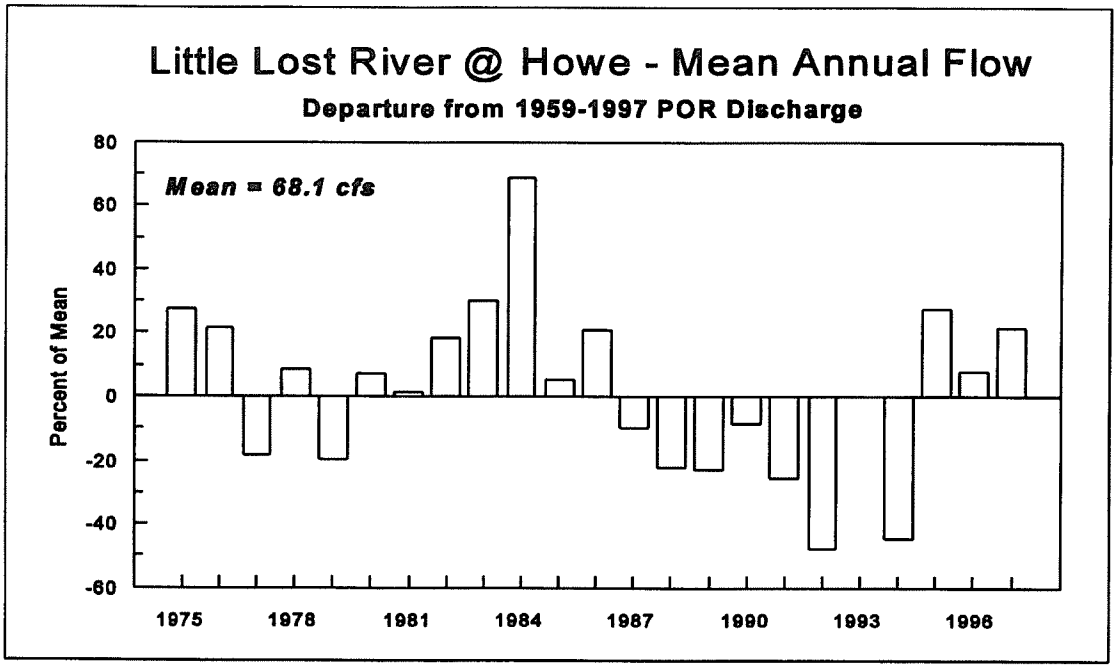
Large streams, because of their width relative to flanking vegetation, naturally have less shade. Most larger streams also receive proportionally less local groundwater inflow; some may even become losing streams (Kjelstrom 1992 and Donato 1998) at certain times of the year. The water they carry has experienced exposure to atmospheric heating proportionate to transit time from its source. These large streams approach and fluctuate around an equilibrium temperature with their surrounding environment (Krajewski and others 1982). As flow drops so does stream velocity, giving more time for water to approach thermal equilibrium with air above it.

Air temperature is largely controlled by solar radiation flux (Miller and Thompson 1975). The rate of heating and eventual maximum or equilibrium temperature is greater in the sun than in the shade for both air and water. However, water warms when air temperature exceeds stream temperature, even without exposure to direct or indirect solar radiation. Some locations in Idaho are so warm that stream heating can occur throughout the night. For example, in Riggins, at the confluence of the Little and main Salmon Rivers, mean July minimum air temperature, 58.4°F (~15°C), exceeds Idaho's salmonid spawning instantaneous maximum temperature (13°C).

For a given stream, flow is also driven by climate (Petts and Foster 1985, Leopold 1994, and Mount 1995). Precipitation in most of Idaho reaches a minimum in summer, but early summer stream flows are boosted by snowpack runoff which generally peaks in June. Still, unregulated stream flows in much of the state decline to baseflow by mid to late July and continue to decline into the early fall (Brennan and others 1998). If the winter snowpack is light, stream flows typically decline quicker, reach baseflow sooner, and have lower late summer minimums.

Idaho's hot, dry summers and normally low mid to late summer stream flow combine to make July, August, and sometimes into early September, a time of high stream temperature. In addition, there is considerable variation between years such that this normally warm time of year is periodically compounded by drought (see Figure 3.4) as well as above normal temperatures (see Figure 3.2). This causes departure from normal stream temperatures to occur as well.

FIGURE 3.4. MEAN ANNUAL STREAM FLOW VARIATION BETWEEN YEARS IN THE LITTLE LOST RIVER DRAINAGE



3.3 MEASUREMENT AND EXPRESSION OF STREAM TEMPERATURE

Until this decade, very few agencies or individuals had the capability to monitor stream temperatures at regular intervals over an extended period of time. The available equipment was expensive, bulky, and required a higher level of effort and expertise to deploy and maintain than is the case today. Diurnal temperature records were largely the province of researchers and the U.S. Geological Survey (USGS).

When monitoring continuous stream temperature, the USGS defines three temperatures of concern: true stream temperature, temperature near sensor, and temperature recorded (Stevens and others 1975). True stream temperature (TST) is defined as an instantaneous measurement obtained in a shaded location in the main flow of the stream outside of the influence of tributaries or groundwater influx with a full immersion thermometer calibrated against an ASTM standard thermometer. It can also be calculated as a weighted average of a cross-section temperature profile.

Sensors for stream temperature recorders, for reasons of safety and convenience, are often placed closer to shore than would represent true stream temperature. The actual temperature of the water surrounding the sensor reflects its location in the channel cross-section. This is known as the temperature near sensor (TNS). Moore (1967) found almost a 2°C range in temperature across the Middle Fork Willamette River near Dexter, Oregon, and notes that in all instances the range could be accounted for by "one or two observations of comparatively high temperatures near the bank where the flow is extremely sluggish." This is often the place temperature measuring and recording devices are located, if not at the time of placement then by the time of retrieval due to streamflow recession.

The temperature recorded, or TRC, is the measurement we record or read. If the thermometer or sensor is calibrated, TRC can and should be adjusted. It will then be the TNS. That still leaves differences between TST and TNS, which are stream specific and likely vary diurnally and seasonally (Stevens and others 1975). If TST is also measured, we can account for these differences under the conditions of the paired measurements. Because of the inherent variability in stream temperature measurement, the USGS recommends recording temperature only to the nearest 0.5°C (Stevens and others 1975).

With the advent of inexpensive electronic temperature recording devices, the number of extended regular interval data records has increased dramatically. Today we have available much more stream temperature data, from all manner of water bodies, than was ever imagined possible when temperature criteria were conceived. Unfortunately most of these data are TRC, maybe TNS if care was taken to calibrate the recording devices[1]. These data provide very little, if any,

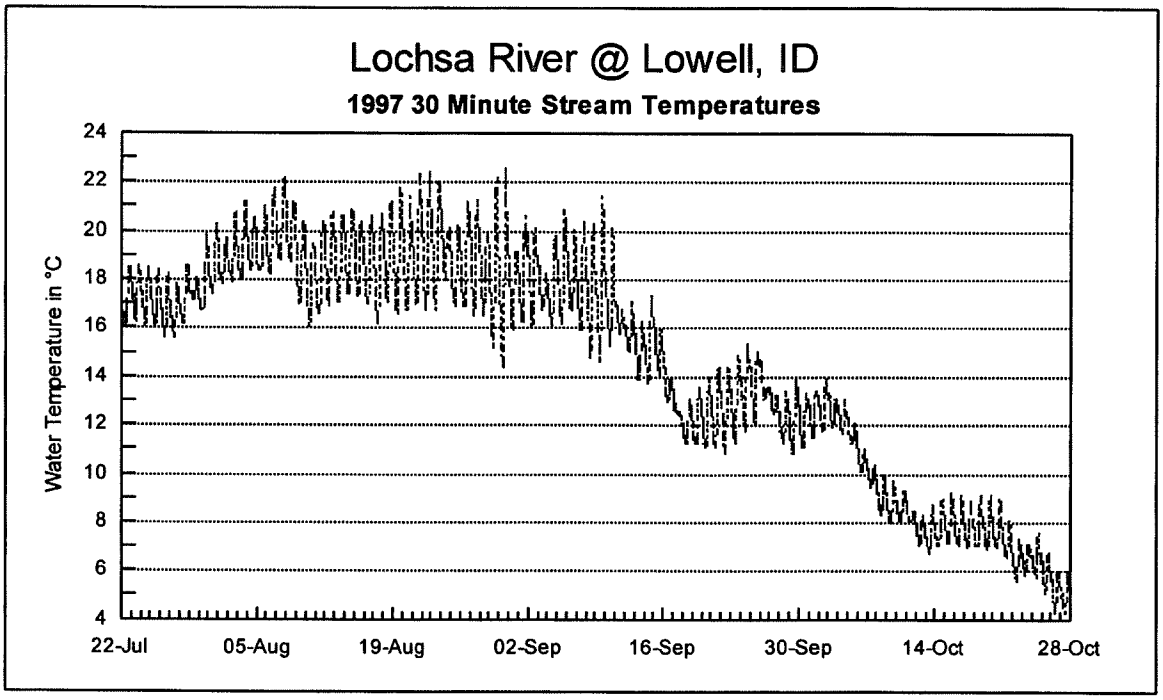
[1] In a recent calibration check in ice water, a series of eight StowAway XTI® electronic thermograph devices varied from true temperature by +0.40°C to -0.44°C (IDEQ 1998).

information about true stream temperature. If recording devices were located in a well mixed portion of a stream, there may be little difference between TNS and TST. In most cases, we simply don't know these differences and should be cautious in evaluation of such temperature records, particularly in a regulatory context.

Water temperature relevant to the biota

Even if we measure true stream temperature, arguably the temperature most characteristic of the basic thermal regime at any moment in time, we may not be measuring a temperature to which the biota respond. Stream temperatures exhibit great temporal variability (Figure 3.5), and there are many metrics which can be used to summarize and analyze a continuous record, e.g., daily mean, daily maximum, maximum weekly average, maximum weekly maximum, and so on. Each will give a different result which likely relates to support of aquatic life differently.

FIGURE 3.5. 30 MINUTE TEMPERATURE READINGS FROM THE LOCHSA RIVER AT LOWELL, IDAHO, 1997



In addition, there are questions of small scale heterogeneity and animal behavior. There is variation in stream temperature throughout a stream cross section. Stevens and others (1975) provide an example of a 2.5°C range in temperature measured at intervals of depth and distance from shore in a large river (148' wide by 30' deep). Smaller rivers at low flow may exhibit a 8°C range in temperature across their channel (Bilby 1984). Bilby also identified four distinct types of cool water refugia, averaging 4.7°C lower than nearby stream temperatures on warm summer afternoons. Anyone who has swum in a river knows of cold and warms spots and chooses the latter. Fish also seek thermally favorable areas, balanced with other life needs (Coutant 1987).

3.4 RECENT STREAM TEMPERATURE AND AQUATIC LIFE OBSERVATIONS

Fish and temperature data from the Little Lost River, Owyhee County, and Lochsa River drainages were compiled and compared. Fish data were collected through electrofishing and snorkeling surveys, and the number of age classes was estimated from length frequency distributions. The temperature data were collected with temperature data recorders, and criteria exceedances that occurred during salmonid spawning periods[2] were counted. Shaded rows in the following tables indicate comparisons where the fish data were collected prior to the temperature data, therefore, the time period in which the temperature data were collected is not represented in the fish data. The numbers in the water body index (WBID) number column are the numbers assigned by DEQ for indexing Idaho waters. The estimated number of age classes represented in the length frequency distribution is provided in the Age classes column. Where juveniles appear to be included in the distribution, they are noted with the abbreviation "juv." Tables 3.4, 3.5, 3.6, 3.7, and 3.8 contain summaries of these data.

Little Lost River rainbow trout and thermograph data comparison

Table 3.4 provides a comparison of rainbow trout (*Oncorhynchus mykiss*) age class structure to State of Idaho water temperature criteria in the Little Lost River drainage (USGS cataloging unit 17040217). Criteria that could be assessed with existing data include instantaneous cold water biota (22°C) and salmonid spawning (13°C). Fishery and temperature data were compiled from *The History and Status of Fishes in the Little Lost River Drainage, Idaho*, January 29, 1998 draft (Gamett 1998). The values in the 22°C and 13°C columns are the count of instantaneous criteria exceedances and the percentage of all applicable observations these exceedances represent.

TABLE 3.4. SUMMARY OF RAINBOW TROUT (*ONCORHYNCHUS MYKISS*) AGE CLASS STRUCTURE AND EXCEEDANCES OF IDAHO WATER TEMPERATURE CRITERIA FROM THE LITTLE LOST RIVER (CATALOGING UNIT 17040217). CRITERIA ASSESSED INCLUDE INSTANTANEOUS COLD WATER BIOTA AND INSTANTANEOUS SALMONID SPAWNING DURING THE SPAWNING PERIOD JANUARY 15 TO JULY 15

Stream	WBID no.	Fish year	Temp year	Age classes	22°C (#/%)	13°C (#/%)
Big Creek #1 - 0.8 km above Wet Creek	24	1994	1995	3	0/0	10/18
Big Creek #1 - 0.8 km above Wet Creek	24	1996	1996	3/juv	0/0	15/100
Little Lost River #1 - 0.8 km below Big Springs Creek	2	1993	1994	2	1/1	58/92
Little Lost River #1 - 0.8 km below Big Springs Creek	2	1993	1995	2	0/0	40/70

[2] Spawning periods used were the default time periods defined in Idaho Water Quality Standards and Wastewater Treatment Requirements (IDAPA 16.02.01.250.02.d.iv)

Stream	WBID no.	Fish year	Temp year	Age classes	22°C (#/%)	13°C (#/%)
Little Lost River #3 - at Clyde campground	10	1993	1994	5/juv	0/0	32/59
Little Lost River #3 - at Clyde campground	10	1993	1995	5/juv	0/0	55/95
Little Lost River #11 - below Timber Creek	14	1995	1995	5/juv	0/0	0/0
Little Lost River #11 - below Timber Creek	14	1997	1995	4/juv	0/0	0/0
Summit Creek #4 - 400m below Sawmill Canyon road	19	1995	1995	4/juv	6/4	48/84
Wet Creek - below Pancheri diversion	22	1992	1994	4	2/1	12/19
Wet Creek - below Pancheri diversion	22	1992	1995	4	0/0	34/59
Wet Creek 0 - top end of transect is Big Creek	24	1997	1996	3	0/0	12/100
Wet Creek - 0.6 km above forest boundary	24	1995	1996	4/juv	0/0	12/100
Wet Creek - 0.6 km above forest boundary	24	1996	1996	4/juv	0/0	12/100
Wet Creek - 0.5 km above Hilts Creek	24	1995	1996	4/juv	0/0	12/100
Wet Creek - 0.8 km above Hilts Creek	24	1995	1996	3/juv	0/0	0/0
Wet Creek - 0.8 km above Hilts Creek	24	1996	1996	3	0/0	0/0

Little Lost River bull trout and thermograph data comparison

Table 3.5 provides a comparison of bull trout (*Salvelinus confluentus*) age class structure to State of Idaho water temperature criteria in the Little Lost River drainage (USGS cataloging unit 17040217). Criteria that could be assessed with existing data include instantaneous cold water biota (22°C) and salmonid spawning (13°). These fish and temperature data were compiled from *The History and Status of Fishes in the Little Lost River Drainage, Idaho*, January 29, 1998 draft (Gamett 1998).The values in the 22°C and 13°C columns are the count of instantaneous criteria exceedances and the percentage of all applicable observations these exceedances represent.

TABLE 3.5. SUMMARY OF BULL TROUT (*SALVELINUS CONFLUENTUS*) AGE CLASS STRUCTURE AND EXCEEDANCES OF IDAHO WATER TEMPERATURE CRITERIA FROM THE LITTLE LOST RIVER (CATALOGING UNIT 17040217). CRITERIA ASSESSED INCLUDE INSTANTANEOUS COLD WATER BIOTA AND INSTANTANEOUS SALMONID SPAWNING DURING THE SPAWNING PERIOD SEPTEMBER 1 TO APRIL 1

Stream	WBID	Fish year	Temp year	Age classes	22°C (#/%)	13°C (#/%)
Iron Creek - above Iron Creek road	14	1995	1996	4/juv	0/0	0/0
Little Lost River #3 - at Clyde campground	10	1993	1994	2	0/0	21/100

Stream	WBID	Fish year	Temp year	Age classes	22°C (#/%)	13°C (#/%)
Little Lost River #3 - at Clyde campground	10	1993	1995	2	0/0	17/43
Little Lost River #11 - below Timber Creek	14	1995	1995	3	0/0	⅓
Little Lost River #11 - below Timber Creek	14	1997	1995	3	0/0	⅓
Mill Creek #2 - 0.5 km above trailhead	14	1996	1996	1	0/0	0/0
Wet Creek - below Pancheri diversion	22	1992	1994	2/juv	2/1	24/48
Wet Creek - below Pancheri diversion	22	1992	1995	2/juv	0/0	13/33
Wet Creek 0 - top end of transect is Big Creek	24	1997	1996	1	0/0	9/29
Wet Creek - 0.6 km above forest boundary	24	1996	1996	1	0/0	9/29
Wet Creek - 0.5 km above Hilts Creek	24	1995	1996	3	0/0	0/0
Wet Creek - 0.8 km above Hilts Creek	24	1995	1996	3	0/0	0/0
Wet Creek - 0.8 km above Hilts Creek	24	1996	1996	3	0/0	0/0

Owyhee County redband rainbow trout and thermograph data comparison

Table 3.6 provides a comparison of redband rainbow trout (*Oncorhynchus mykiss gairdneri*) age class structure to State of Idaho water temperature criteria in Owyhee County drainages (USGS cataloging units 17050103, 17050107, and 17050108). Criteria that could be assessed with existing data include cold water biota (22°C instantaneous and 19°C maximum daily average) and salmonid spawning (13°C instantaneous and 9°C maximum daily average). These fish and temperature data were compiled from Idaho Department of Fish and Game redband trout and stream habitat surveys in Owyhee County (Allen and others 1993, 1995, 1997a, and 1997b) and Idaho DEQ Boise Regional Office (Steed and Horsburgh 1997). The values in the 22°C, 19°C, 13°C, and 9°C columns are the count of instantaneous criteria exceedances and the percentage of all applicable observations these exceedances represent.

TABLE 3. 6. SUMMARY OF RAINBOW TROUT (*ONCORHYNCHUS MYKISS GAIRDNERI*) AGE CLASS STRUCTURE AND EXCEEDANCES OF IDAHO WATER TEMPERATURE CRITERIA FROM OWYHEE COUNTY STREAMS (CATALOGING UNITS 17050103, 17050107, AND 17050108). CRITERIA ASSESSED INCLUDE INSTANTANEOUS AND DAILY AVERAGE COLD WATER BIOTA AND SALMONID SPAWNING DURING THE SPAWNING PERIOD MARCH 1 TO JULY 15.

Stream	WBID	Fish year	Temp year	Age classes	22°C #/%	19°C #/%	13°C #/%	9°C #/%
Snake River - cataloging unit 17050103								
McBride Creek - T2S, R5W, S22	4	1996	1996	0	2/2	1/1	26/96	27/100
NF Castle Creek - T7S, R2W, S15	29	1996	1996	5/juv	17/16	2/2	26/96	27/100

Stream	WBID	Fish year	Temp year	Age classes	22°C #/%	19°C #/%	13°C #/%	9°C #/%
North Fork Owyhee River - cataloging unit 17050107								
Cabin Creek - T9S, R5W, S15	12	1996	1995	3/juv	39/44	0/0	7/100	7/100
Juniper Creek - T9S, R5W, S21	13	1996	1995	4/juv	45/70	0/0	10/100	10/100
Juniper Creek - T9S, R5W, S21	13	1996	1995	4/juv	28/31	1/1	10/100	10/100
Juniper Creek - T9S, R5W, S21	13	1996	1995	4/juv	28/31	0/0	10/100	10/100
Juniper Creek - T9S, R5W, S21	13	1996	1995	4/juv	40/45	2/2	7/100	7/100
NF Owyhee River - T9S, R5W, S32	09	1996	1996	3/juv	69/73	51/54	27/100	27/100
Jordan Creek - cataloging unit 17050108								
Jordan Creek - T5S, R3W, S7	35	1996	1995	4/juv	0/0	0/0	15/41	11/30

Lochsa River cutthroat trout and thermograph data comparison

Table 3.7 provides a comparison of cutthroat trout (*Oncorhynchus clarki*) age class structure to State of Idaho water temperature criteria in the Lochsa River drainage (USGS cataloging unit 17060303). Criteria that could be assessed using existing data include cold water biota (22°C instantaneous and 19°C maximum daily average) and salmonid spawning (13°C instantaneous and 9°C maximum daily average). These fish and temperature data were compiled from habitat and salmonid abundance studies (Clearwater Biostudies Inc.1992a, 1992b, 1994a, 1996, 1998a, and 1998b) and Idaho Department of Fish and Game data (Tim Cochnauer personal communication). The values in the 22°C, 19°C, 13°C, and 9°C columns are the count of instantaneous criteria exceedances and the percentage of all applicable observations these exceedances represent.

TABLE 3. 7. SUMMARY OF CUTTHROAT TROUT (*ONCORHYNCHUS CLARKI*) AGE CLASS STRUCTURE AND EXCEEDANCES OF IDAHO WATER TEMPERATURE CRITERIA FROM THE LOCHSA RIVER (CATALOGING UNIT 17060303). CRITERIA ASSESSED INCLUDE INSTANTANEOUS AND DAILY AVERAGE COLD WATER BIOTA AND SALMONID SPAWNING DURING THE SPAWNING PERIOD APRIL 1 TO AUGUST 1.

Stream	WBID	Fish year	Temp year	Age classes	22°C #/%	19°C #/%	13°C #/%	9°C #/%
Canyon Creek - lower	62	1991	1993	2	0/0	0/0	6/35	17/100
Canyon Creek - lower	62	1991	1994	2	0/0	0/0	32/84	38/100
Canyon Creek - lower	62	1997	1993	2	0/0	0/0	6/35	17/100
Canyon Creek - lower	62	1997	1994	2	0/0	0/0	32/84	38/100
Colt Creek - mouth	26	1995	1993	4/juv	0/0	0/0	2/22	9/100
Glade Creek - lower	1	1991	1993	3/juv	0/0	0/0	7/23	31/100

Stream	WBID	Fish year	Temp year	Age classes	22°C #/%	19°C #/%	13°C #/%	9°C #/%
Glade Creek - lower	1	1991	1994	3/juv	0/0	0/0	31/82	38/100
Nut Creek - mouth	63	1991	1993	1	0/0	0/0	10/40	25/100
Nut Creek - mouth	63	1991	1994	1	0/0	0/0	32/84	38/100
Nut Creek - mouth	63	1997	1993	1	0/0	0/0	10/40	25/100
Nut Creek - mouth	63	1997	1994	1	0/0	0/0	32/84	38/100
Placer Creek - mouth	63	1991	1993	3	0/0	0/0	16/64	25/100
Placer Creek - mouth	63	1991	1994	3	0/0	0/0	34/89	38/100
Placer Creek - mouth	63	1997	1993	0	0/0	0/0	16/64	25/100
Placer Creek - mouth	63	1997	1994	0	0/0	0/0	34/89	38/100
Polar Creek - mouth	64	1991	1993	1/juv	0/0	0/0	2/7	30/100
Polar Creek - mouth	64	1991	1994	1/juv	0/0	0/0	19/49	39/100
Polar Creek - mouth	64	1997	1993	1/juv	0/0	0/0	2/7	30/100
Polar Creek - mouth	64	1997	1994	1/juv	0/0	0/0	19/49	39/100
South Fork Canyon Creek - mouth	62	1991	1993	2	0/0	0/0	3/12	25/100
South Fork Canyon Creek - mouth	62	1991	1994	2	0/0	0/0	26/68	38/100
South Fork Canyon Creek - mouth	62	1997	1993	2	0/0	0/0	3/12	25/100
South Fork Canyon Creek - mouth	62	1997	1994	2	0/0	0/0	26/68	38/100
Storm Creek - lower	32	1994	1993	4/juv	0/0	0/0	4/44	8/89
Storm Creek - lower	32	1994	1994	4/juv	0/0	0/0	25/93	26/96
Walde Creek - mouth	64	1991	1993	3/juv	0/0	0/0	7/23	30/100
Walde Creek - mouth	64	1991	1994	3/juv	0/0	0/0	33/85	39/100
Walde Creek - mouth	64	1997	1993	3/juv	0/0	0/0	7/23	30/100
Walde Creek - mouth	64	1997	1994	3/juv	0/0	0/0	33/85	39/100
West Fork Deadman Creek - mouth	61	1993	1993	1	0/0	0/0	3/9	32/100
West Fork Deadman Creek - mouth	61	1993	1994	1	0/0	0/0	25/76	33/100

Lochsa River rainbow trout and thermograph data comparison

Table 3.8 provides a comparison of rainbow trout (*Oncorhynchus mykiss*) age class structure to State of Idaho water temperature criteria in the Lochsa River drainage (USGS cataloging unit 17060303). Criteria that could be assessed using existing data include cold water biota (22°C

instantaneous and 19°C maximum daily average) and salmonid spawning (13°C instantaneous and 9°C maximum daily average). These fish and temperature data were compiled from habitat and salmonid abundance studies (Clearwater Biostudies Inc.1992a, 1992b, 1992c, 1994b, 1996, and 1998a) and Idaho Department of Fish and Game data (Tim Cochnauer personal communication). The values in the 22°C, 19°C, 13°C, and 9°C columns are the count of instantaneous criteria exceedances and the percentage of all applicable observations these exceedances represent.

TABLE 3.8. SUMMARY OF RAINBOW TROUT (*ONCORHYNCHUS MYKISS*) AGE CLASS STRUCTURE AND EXCEEDANCES OF IDAHO WATER TEMPERATURE CRITERIA FROM THE LOCHSA RIVER (CATALOGING UNIT 17060303). CRITERIA ASSESSED INCLUDE INSTANTANEOUS AND DAILY AVERAGE COLD WATER BIOTA AND SALMONID SPAWNING DURING THE SPAWNING PERIOD JANUARY 15 TO JULY 15.

Stream	WBID	Fish year	Temp year	Age classes	22°C #/%	19°C #/%	13°C #/%	9°C #/%
Boulder Creek - lower	40	1993	1993	3/juv	0/0	0/0	4/29	13/93
Boulder Creek - lower	40	1993	1994	3/juv	11/13	13/15	13/93	14/100
Canyon Creek - lower	62	1991	1993	4/juv	0/0	0/0	0/0	0/0
Canyon Creek - lower	62	1991	1994	4/juv	0/0	0/0	15/71	21/100
Canyon Creek - lower	62	1997	1993	4/juv	0/0	0/0	0/0	0/0
Canyon Creek - lower	62	1997	1994	4/juv	0/0	0/0	15/71	21/100
Fish Creek - lower	57	1993	1993	4/juv	0/0	0/0	7/50	14/100
Fish Creek - lower	57	1994	1993	4/juv	0/0	0/0	7/50	14/100
Fish Creek - lower	57	1995	1993	4/juv	0/0	0/0	7/50	14/100
Fish Creek - lower	57	1996	1993	4/juv	0/0	0/0	7/50	14/100
Fish Creek - lower	57	1994	1994	4/juv	14/16	17/20	13/93	14/100
Fish Creek - lower	57	1995	1994	4/juv	14/16	17/20	13/93	14/100
Fish Creek - lower	57	1996	1994	4/juv	14/16	17/20	13/93	14/100
Fish Creek - lower	57	1997	1994	4/juv	14/16	17/20	13/93	14/100
Glade Creek - lower	1	1991	1993	3	0/0	0/0	1/7	14/100
Glade Creek - lower	1	1991	1994	3	0/0	0/0	14/67	21/100
Nut Creek - lower	63	1991	1993	1	0/0	0/0	2/25	8/100
Nut Creek - lower	63	1991	1994	1	0/0	0/0	15/71	21/100
Placer Creek - mouth	63	1991	1993	0	0/0	0/0	5/63	8/100
Placer Creek - mouth	63	1991	1994	0	0/0	0/0	17/81	21/100
South Fork Canyon Creek - mouth	62	1991	1993	3	0/0	0/0	0/0	8/100

Stream	WBID	Fish year	Temp year	Age classes	22°C #/%	19°C #/%	13°C #/%	9°C #/%
South Fork Canyon Creek - mouth	62	1991	1994	3	0/0	0/0	9/43	21/100
South Fork Canyon Creek - mouth	62	1997	1993	2	0/0	0/0	0/0	8/100
South Fork Canyon Creek - mouth	62	1997	1994	2	0/0	0/0	9/43	21/100
Storm Creek - lower	32	1994	1993	2	0/0	0/0	0/0	0/0
Storm Creek - lower	32	1994	1994	2	0/0	0/0	8/80	9/90
West Fork Deadman Creek - mouth	61	1993	1993	3/juv	0/0	0/0	0/0	15/100
West Fork Deadman Creek - mouth	61	1993	1994	3/juv	0/0	0/0	8/50	16/100

Summary of stream temperature and fish population data

Ninety-eight comparisons of fish and temperature data were made. Temperature criteria were exceeded in 29 instances where salmonid spawning had occurred and the affected cohort of salmonids were present. These instances occurred primarily in Owyhee County and the Lochsa drainage. Temperature criteria were exceeded in 25 instances where the affected salmonid cohorts were not represented in the length frequency distributions. In 44 instances, no comparison was made since the time period in which the temperature was measured was not represented in the fish data.

These data indicate that more than 50% of the time where Idaho temperature criteria exceedances occur, the affected age classes of fish are present. In other words, salmonid spawning (and incubation) has occurred coincidentally with measured temperature criteria exceedances. In the instances where fish data were collected more than one year after the temperature was measured, these data also indicate that rearing has occurred. In contrast, nearly half the time, the affected cohort of fish was not represented in the length frequency distribution. This may be due to the observed temperature exceedances, or may be due to other factors not considered here.

3.5 DISCUSSION AND CONCLUSIONS

The National Academy of Science's (NAS 1973) analysis of temperature criteria concluded:

> *The general difficulty in developing suitable criteria for temperature (which would limit the addition of heat) lies in determining the deviation from 'natural' temperature a particular body of water can experience without suffering adverse effects on its biota. ... In view of the many variables, it seems obvious that no single temperature requirement can be applied to continental or large regional areas; the requirements must be closely related to each body of water and to its particular community of organisms, especially the important species found in it.*

These words ring as true today as they were in 1973, but we are still far from realizing this truth.

Present Idaho water quality standards contain surface water temperature criteria for aquatic life, salmonid spawning, and bull trout beneficial uses. The aquatic life and salmonid spawning criteria are uniform statewide. The salmonid spawning criteria (Idaho and EPA) are applied during default spawning (and bull trout rearing) periods of individual species, and the numeric criteria are uniform. Application of essentially uniform criteria to waters in a highly variable environmental setting is problematic. Fixed or single value criteria applied uniformly (all places, all times, or pre-defined time periods) do not reflect the range in stream temperatures one would expect, based on climatic variability in Idaho. Single value criteria also do not account for environmental preference or tolerance differences between species, or within species throughout its range.

There are a number of variables that need to be accounted for in the application of surface water temperature criteria. These variables include natural spatial and temporal climate variation, organism response, and temperature measurement variation. It has been shown that the climate of Idaho varies considerably primarily due to latitude, elevation, and season. In addition, weather introduces significant day-to-day and year-to-year departures from climatic normals. These variations affect water temperature through influences on air temperature and stream flow. Gradients of normal stream temperatures exist across Idaho, but, one cannot expect to go out and always encounter normal temperatures. As the National Academy of Sciences stated in 1973 *"The agents that affect the natural temperature are so numerous that it is unlikely that two bodies of water, even in the same latitude, would have exactly the same thermal characteristics. Moreover, a single aquatic habitat typically does not have uniform or consistent thermal characteristics"* (NAS 1973).

It is largely, laboratory studies on fish which demonstrate their tolerance limits and the effects of certain temperatures. In their natural setting, individual organisms experience daily, seasonal, and annual cycles of environmental change which break the continuity of exposure to extremes. When environmental conditions become intolerable, fish move to refugia habitats that are more favorable. The behavioral response of aquatic animals needs to be accounted for in temperature metrics and criteria and in how stream temperatures are measured and assessed. True stream

temperature, an aggregate property, likely is not the temperature aquatic life experiences. This may be why laboratory derived temperature tolerances appear to be exceeded in the field, but no biological response is measured.

The process of collecting and analyzing water temperature data introduces additional variability. Current stream temperature data may not reflect true stream temperatures due to calibration and sensor placement. The way we, as humans, compile our data may or may not adequately describe environmental conditions that fish and macroinvertebrates respond to in their natural setting. Such inadequacies in the data are primarily due to spatial, temporal, and geographic scale issues.

Available empirical fish and temperature data from selected drainages have been compiled which demonstrate the problems with application of uniform surface water temperature criteria in Idaho. More than half of the data where comparisons were possible show criteria exceedances and yet the affected salmonid cohort is represented. These data also indicate that nearly half the time the affected salmonid cohort is not present. This incongruity is likely due to a combination of human-induced temperature criteria exceedances compounded by other factors, poorly understood natural conditions, inappropriate criteria, and inadequate data collection. The current state of affairs is that we cannot reliably distinguish management caused temperature exceedances from natural conditions.

Given the influence of the variables described above, several questions arise concerning the spatial and temporal heterogeneity in streams. How can we collect temperature data to accurately reflect the conditions the fish are exposed to? Which temperature metric best relates to support of aquatic life and salmonid spawning? How much refugia from prevailing warmer water temperatures is needed by a given species to maintain a viable population and assemblage? If adequate refugia are present, how important are temperatures outside the refugia? Do spawning temperature requirements matter other than when and where fish do or could spawn? How much of a stream drainage must be suitable for how long to maintain integrity of the fish assemblage? How much of a species range must be protected in terms of space and time? These questions can serve as a starting point for the development of a project to address the temperature criteria dilemma.

3.6 RECOMMENDATIONS

It is proposed that an aquatic life, salmonid spawning, and temperature regime study be developed and conducted. The data from such a study would be used to: 1) comprehensively document the uniform criteria issue and 2) support development of water quality criteria to protect salmonid spawning which take into account natural environmental diversity. Some factors that need to be considered in such a study include the use of refugia by aquatic life, incubation and rearing temperature requirements of each species, and appropriate temperature metrics.

In addition, a protocol for measuring, reporting, and evaluating stream temperatures for evaluation of water quality temperature criteria is needed. This protocol needs to be specific and detailed as to 1) placement of sensors, 2) sensor calibration, 3) other quality assurance and control issues, 4) expression of results, and 5) the documentation needed to establish a temperature record acceptable for comparison to criteria. The data need to be consistent so that all can benefit from the collection and comparisons may be made between years and sites.

3.7 IDAHO TEMPERATURE CRITERIA STUDY PROSPECTUS

Introduction

Fish assemblage and temperature data were compiled during the development of subbasin assessments for the Little Lost River (Essig and others 1998), Lochsa River, and mid-Owyhee drainages. While assessing these data, we observed a number of water bodies where salmonid age class structure indicates spawning, incubation, and rearing is occurring concurrent with temperature criteria exceedances.

The emergence of frequent temperature criteria exceedances, many of which did not make sense since they conflicted with corresponding biological data, coincided with development of Idaho's 1998 303(d) list. Many waters were destined for listing, and thus total maximum daily load (TMDL) development irrespective of biological data indicating no beneficial use impairment or lack of a controllable thermal load (i.e. exceedances in wilderness streams). Because recent history indicates it is much harder to de-list than it is to list water bodies, Idaho DEQ does not want to be in the position of writing TMDLs to change natural conditions. All listings for temperature are proposed to be put on a separate list, in a holding category, to allow study prior to the next listing cycle. Hopefully, a study of the issue will sort out bona fide human induced temperature problems from exceedances of current temperature criteria that are not impairing aquatic life uses. To that end, an analysis of the temperature criteria issue has been prepared.

This issue analysis (D^2 1998) documents Idaho's environmental variability as it pertains to stream temperature expectations and assesses how often salmonid spawning and temperature criteria exceedances coincided. We found that spawning and exceedances were occurring at more than half of the sites where fish and temperature data matched. These data appear to support our initial observation but do not allow a comprehensive assessment due to spatial and temporal issues. In the issue analysis, we recommend a temperature criteria study to: 1) further document the relation between observed temperatures and use support across the state, 2) collect data to support development of water quality criteria which take into account natural environmental diversity, and 3) develop a surface water temperature data collection protocol. This prospectus outlines our current thinking on how to proceed.

Goal

Aquatic life and salmonid spawning temperature criteria need to be developed for Idaho that:

- protect existing uses,
- allow for restoration of impaired uses,
- account for natural environmental variability, and
- are sensitive enough to detect human induced temperature changes.

Objectives
To help meet this goal, data needs to be collected and analyzed to:

- comprehensively document the uniform criteria - diverse environment issue,
- support development of aquatic life and salmonid spawning criteria that account for natural variability, and
- support development of an Idaho protocol for the collection of surface water temperature data intended for evaluation against temperature criteria.

3.8 TEMPERATURE LIST

These are water bodies with temperature as a pollutant on the 1996 303(d) list or that had major temperature criteria violations as determined by DEQ. These water bodies fall into several categories:

1. Those water bodies that were listed on the 1996 list for temperature and some other pollutant and (a) the BURP/WBAG process resulted in NFS or NV, or (b) no temperature or BURP data was collected or available since the 1996 listings. These water bodies remain on the 1998 list because a pollutant other than temperature is involved.

2. Those water bodies that were not on the 1996 list, but which DEQ monitored and determined had a major temperature criteria violation. These water bodies were not placed on the 1998 list and are only listed on this separate temperature list.

Please note that there are water bodies that were listed for temperature on the 1996 list that were not retained on the 1998 list and also do not appear on this separate temperature list. These are water bodies that EPA placed on the list without the support of temperature monitoring data. DEQ collected BURP data and analyzed these water bodies pursuant to the WBAG process, which resulted in a FS determination with no major temperature criteria violations.

The rationale for DEQ's treatment of the above-described water bodies is set forth in detail in Chapter 1, Section 1.6 and Chapter 3.0. The water bodies are listed here on a separate temperature list for information purposes, until new water temperature standards can be developed. DEQ intends the water bodies on this list to be re-evaluated in light of the new water temperature standards for purposes of the 2000 303(d) list, time permitting. The list displays the segment number, hydrologic unit number, common water body name, boundaries and number of miles affected.

Reference Section 2.0 for key to list headings.

Water bodies with temperature as a pollutant on the 1996 303(d) list or major temperature exceedances

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
HUC#17010213			
7473	East Fork Creek	Headwaters to Lightning Creek	3.58
HUC#17010214			
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary	21.81
3440	Hoodoo Creek	Hoodoo Lake to Pend Orielle R	9.80
3441	Hoodoo Creek	Headwaters to Hoodoo Lake	7.20
3442	Cocolalla Creek	Cocolalla Lake to Pend Oreille Rive	8.21
3443	Cocolalla Creek	Headwaters to Cocolalla Lake	15.01
7443	Fish Creek	Headwaters to Cocolalla Creek	5.09
HUC#17010215			
3415	East River	North Fk East River to Priest River	2.43
3421	Kalispell Creek	WA line to Priest Lake	8.14
3424	Reeder Creek	Headwaters to Priest Lake	7.63
3427	Two Mouth Creek	Headwaters to Priest Lake	9.72
5615	Lion Creek	Headwaters to Priest Lake	11.29
5616	Granite Creek	Blacktail Creek to Priest Lake	7.19
5622	Gold Creek	Washington line to Hughes Fork	3.11
HUC#17010216			
3436	Pend Oreille River	Pend Oreille Lake to HUC boundary	1.64
5657	Pend Oreille River	HUC boundary to Washington line	3.03
HUC#17010301			
3500	Prichard Creek	Barton Gulch to N Fk CdA River	10.20
HUC#17010303			
3535	Latour Creek	Headwaters to CdA River	16.31
4023	Coeur d'Alene River	Thompson Lake to CdA Lake	4.19
7535	Baldy Creek	Headwaters to Latour Creek	5.17
7536	Larch Creek	Headwaters to Latour Creek	1.44
HUC#17010304			
3581	West Fork Saint Maries River	Headwaters to St. Maries River	9.61
3593	Emerald Creek	Conflu of E & W Fks to St. Maries R	3.40
3596	Gold Center Creek	Windy Creek to Middle Fk St. Maries River	2.12
3622	Gold Creek	East Fk Gold Creek to St. Joe River	1.59
5619	Beaver Creek	Headwaters to St. Joe River	6.56
7575	Tank Creek	Headwaters to St. Joe River	2.14
7576	Harvey Creek	Headwaters to St. Joe River	3.44
7577	Blackjack Creek	Headwaters to St. Joe River	1.96
7596	Flewsie Creek	Headwaters to M Fk St. Maries River	4.34

Water bodies with temperature as a pollutant on the 1996 303(d) list or major temperature exceedances

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
7598	Gramp Creek	Headwaters to Gold Center Creek	4.60
7606	Bear Creek	Headwaters to Marble Creek	2.47
7607	Little Bear Creek	Headwaters to Big Bear Creek	2.00
HUC#17010305			
3552	Spokane River	CdA Lake to Huetter	3.45
3553	Spokane River	Huetter to Post Falls Bridge	4.89
3554	Spokane River	Post Falls Bridge to WA border	6.18
HUC#17040204			
2127	Spring Creek	Wyoming line to Teton River	12.60
2136	Fox Creek	Wyoming line to Teton River	9.18
HUC#17040205			
2046	Lava Creek	Headwaters to Grays Lake Outlet	7.07
2048	Corral Creek	Headwaters to Brockman Creek	4.29
2049	Sawmill Creek	Headwaters to Brockman Creek	3.07
2051	Sellars Creek	Confluence of South Fk Sellars to Willow Creek	4.22
2053	Long Valley Creek	Headwaters to Willow Creek	6.59
2054	Mill Creek	Headwaters to Willow Creek	6.39
2057	Seventy Creek	Headwaters to Willow Creek	3.06
HUC#17040210			
2431	Raft River	Utah Line to Malta	42.19
HUC#17040211			
2447	Goose Creek	State line to Lower Goose Creek Reservoir	15.42
HUC#17040212			
2374	Snake River	Cedar Draw to Rock Creek	7.27
2378	Snake River	Milner Dam to Murtaugh	8.53
2380	Pioneer Reservoir		.00
2404	McMullen Creek	Headwaters to Cottonwood Creek	15.70
2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake	10.19
5173	Snake River	Cassia Gulch to Big Pilgrim Gulch	3.47
5174	Snake River	Clear Lakes Bridge to Cedar Draw	6.10
5175	Snake River	Deep Creek to Mud Creek	.11
5176	Snake River	King Hill to Big Pilgrim Gulch	9.31
5177	Snake River	Mud Creek to Clear Lakes Bridge	1.33
6374	Snake River	Shoshone Falls to Rock Creek	8.25

Water bodies with temperature as a pollutant on the 1996 303(d) list or major temperature exceedances

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
HUC#17040213			
2458	Salmon Falls Creek	Nevada line to Salmon Falls	8.47
2466	Shoshone Creek	Magic Hot Springs to Nevada	4.71
2468	Shoshone Creek	Cottonwood Creek to Big Creek	6.44
HUC#17040214			
2191	Camas Creek	Spring Creek to Highway 91	37.21
2193	Beaver Creek	Dubois to Camas Creek	15.44
2194	Beaver Creek	Spencer to Dubois	16.90
HUC#17040215			
2206	Medicine Lodge Creek	Spring Hollow Creek to Small (town)	16.20
2212	Fritz Creek	Forks to Medicine Lodge Creek	2.88
HUC#17040217			
2145	Wet Creek	Coal Creek to Little Lost River	15.89
2148	Sawmill Creek	Mill Creek to Little Lost River	12.31
5654	Summit Creek	Headwaters to Little Lost River	14.23
5656	Little Lost River	Big Spring Creek to canal	26.12
HUC#17040218			
2161	Big Lost River	Moore Diversion to US 26	19.20
2167	Spring Creek	Springs to Big Lost River	17.11
2168	Antelope Creek	Spring Creek to Big Lost River	16.19
2180	East Fork Big Lost River	Headwaters to Starhope Creek	13.04
HUC#17040219			
2487	Rock Creek	Headwaters to Magic Reservoir	12.02
HUC#17050102			
2549	Bruneau River	Hot Creek to CJ Strike Reservoir	14.44
2551	Jacks Creek	Little Jacks Cr to CJ Strike Res	12.31
HUC#17050103			
2672	McBride Creek	Headwaters to Oregon Line	11.81
2679	Sinker Creek	Diamond Creek to Snake River	10.77
2680	Castle Creek	T5SR1ES28 to Snake River	12.78
6671	Succor Creek	Headwaters to Oregon Line	22.19
6681	Pickett Creek	Headwaters to T5SR1W32	11.52
HUC#17050104			

Water bodies with temperature as a pollutant on the 1996 303(d) list or major temperature exceedances

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
2613	Red Canyon	Headwaters to Owyhee River	5.22
2614	Deep Creek	Headwaters to Owyhee River	46.14
2616	Castle Creek	Headwaters to Deep Creek	11.15
2617	Pole Creek	Headwaters to Deep Creek	23.98
HUC#17050105			
2632	South Fork Owyhee River	Nevada Line to Owyhee River	32.33
HUC#17050107			
2640	Middle Fork Owyhee River	Headwaters to Oregon Line	8.64
2642	Squaw Creek	Headwaters to Oregon Line	13.05
2644	Juniper Creek	Headwaters to N Fk Owyhee River	11.72
2645	Pleasant Valley Creek	Headwaters to N Fk Owyhee River	10.79
2646	Noon Creek	Headwaters to N Fk Owyhee River	9.13
HUC#17050108			
2656	Rock Creek	Headwaters to Triangle Reservoir	17.28
2657	Meadow Creek	Headwaters to Rock Creek	11.93
6656	Louisa Creek	Headwaters to Triangle Reservoir	8.16
6661	Cow Creek	Headwaters to Oregon Line	12.28
HUC#17050114			
2726	Boise River	Notus (town) to Snake River	15.83
2727	Boise River	Star (town) to Notus (town)	21.49
HUC#17050122			
2689	Payette River	Black Canyon Dam to Snake River	39.22
HUC#17050123			
2895	Boulder Creek	Headwaters to Cascade Reservoir	20.46
6882	North Fork Payette River	Clear Creek to Smiths Ferry	9.53
HUC#17050124			
2834	Weiser River	Galloway Dam to Snake River	12.39
2842	North Crane Creek	Headwaters to Crane Creek Reservoir	24.65
HUC#17050201			
2825	Dennett Creek	Headwaters to Snake River	6.46
HUC#17060108			

Water bodies with temperature as a pollutant on the 1996 303(d) list or major temperature exceedances

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3122	Deep Creek	Headwaters to Palouse River	12.16
3123	Flannigan Creek	Headwaters to Palouse River	9.50
3124	West Fork Rock Creek	Headwaters to Palouse River	9.28
3125	Gold Creek	Waterhole Creek to Palouse River	4.45
3126	Hatter Creek	Headwaters to Palouse River	9.79
3128	Big Creek	Headwaters to Palouse River	8.44
3134	South Fork Palouse River	Headwaters to Washington Line	13.42
3136	Cow Creek	Headwaters to Washington line	18.50
HUC#17060201			
3009	Salmon River	Redfish Lake Cr to E Fk Salmon R	44.45
HUC#17060205			
2805	Elkhorn Creek	Headwaters to Middle Fk Salmon Rive	7.41
HUC#17060209			
3325	Maloney Creek	Headwaters to Salmon River	10.14
3326	Deep Creek	Headwaters to Salmon River	11.66
HUC#17060210			
6875	Brundage Reservoir		.00
HUC#17060303			
3236	Lochsa River	Crooked Fk/Walton to Selway/MF Clea	68.74
HUC#17060305			
3288	Cottonwood Creek	Headwaters to SF Clearwater	31.19
3290	South Fork Cottonwood Creek	Headwaters to Cottonwood Creek	6.96
3291	Threemile Creek	Headwaters to S Fk Clearwater River	18.18
3292	Butcher Creek	Headwaters to S Fk Clearwater River	12.37
5185	South Fork Clearwater River	Red River to Clearwater River	63.79
HUC#17060306			
3141	Lindsay Creek	Boundary to Clearwater River	7.35
3142	Hatwai Creek	Headwaters to Clearwater River	7.93
3143	Lapwai Creek	Unnamed trib 26.2 km upstream to Clearwater River	16.32
3145	West Fork Sweetwater Creek	Headwaters to Boundary	19.53
3146	Webb Creek	Headwaters to IR Boundary	5.58
3148	Catholic Creek	Headwaters to Clearwater River	9.60
3149	Potlatch River	Bear Creek to Clearwater River	14.13

Water bodies with temperature as a pollutant on the 1996 303(d) list or major temperature exceedances

WQLSEG	WATERBODY	BOUNDARIES	STREAM MILES
3150	Potlatch River	Headwaters to Bear Creek	40.47
3155	Pine Creek	Headwaters to Potlatch River	12.97
3157	East Fork Potlatch River	Ruby Creek to Potlatch River	4.73
3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	2.14
3159	Moose Creek	Headwaters to Potlatch River	5.76
3162	Bedrock Creek	Headwaters to Boundary	6.08
3164	Big Canyon Creek	Sixmile Canyon to Clearwater R.	13.77
3171	Jim Ford Creek	Headwaters to Clearwater River	27.00
3172	Grasshopper Creek	Headwaters to Jim Ford Creek	8.25
3173	Lolo Creek	Eldorado Creek to Clearwater R.	28.44
3176	Jim Brown Creek	Headwaters to Musselshell	13.33
3179	Sixmile Creek	Headwaters to Clearwater River	8.10
3180	Lawyer Creek	Headwaters to IR Boundary	7.30
4010	Pine Creek	Headwaters to Boundary	10.01
5125	Middle Potlatch Creek	Headwaters to Potlatch River	16.42
5225	Big Bear Creek	W Fk Big Bear to Potlatch River	18.06
7143	Winchester Lake		.00
7164	Big Canyon Creek	Headwaters to Sixmile Canyon	19.45
HUC#17060307			
3225	Osier Creek	Headwaters to Moose Creek	8.09
HUC#17060308			
3188	Long Meadow Creek	Headwaters to Dworshak Reservoir	12.15
3189	Elk Creek	Headwaters to Dworshak Reservoir	20.85
3190	Elk Creek Reservoir		.00
3191	Cranberry Creek	Headwaters to Dworshak Reservoir	6.79
3192	Swamp Creek	Headwaters to Dworshak Reservoir	7.36

3.9 ACKNOWLEDGMENTS

Don Zaroban compiled the fish data and without his help this document would not have come together. Helpful reviews were provided by S. Burke, W. Clark, G. Ewart, and M. Shumar. Preparation of the final manuscript was facilitated by B. Mallard. Thank you for your assistance in the production of this document.

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CHAPTER FOUR

Responses to Public Comment

TABLE OF CONTENTS

LIST OF FIGURES

4.0 INTRODUCTION

Division of Environmental Quality (DEQ) received 112 comments in total on the Draft 1998 303(d) list. However, each submittal addressed several different aspects of the Draft 1998 303(d) list. Comments ranged from questions and concerns about the assessment process to specific questions regarding pollutants or stream segments. The public comment period covered sixty days and ended July 15, 1998.

This chapter addresses comments that were submitted to DEQ. The first section describes who made comments on the Draft 303(d) list and codes the individual or organization by number. This number is then referenced throughout the following sections. All comments are arranged by comment subject category.

4.1 INDEX OF INDIVIDUALS, ORGANIZATIONS AND OTHERS, SUBMITTING COMMENTS ON IDAHO'S DRAFT 1998 303(D) LIST

NO	DATE	NAME
1	5/20/98	Michael Miller Miller Investments LLC 770 Aberdeen Court Post Falls, ID 83854
2	5/22/98	Mike Settell Portneuf Watershed Council (no address)
3	5/21/98	Sy Thompson 5955 N. Idaho Rd Post Falls, ID 83854
4	5/22/98	Scott Brown Idaho Conservation League PO Box 844 Boise, ID 83701

NO	DATE	NAME
5	5/26/98	Marv Hoyt Greater Yellowstone Coalition PO Box 1874 Bozeman, MT 59771
6	5/26/98	Roger Stutzman Balanced Rock Soil Conservation District 212 Deere Street Twin Falls, ID 83301
7&8	6/1/98	Samuel Penney Nez Perce Tribal PO Box 305 Lapwai, ID 83540
9	5/29/98	Roger F. Colgan Clearwater County Commissioners PO Box 586 Orofino, ID 83544

NO	DATE	NAME
10	6/2/98	Sy Thompson 5955 N. Idaho Rd Post Falls, ID 83854
11	6/3/98	Vaughan Spiker Squaw Creek Soil Conservation Dist. 1805 Hwy 16, Rm 1 Emmett, ID 83617
12	6/4/98	Scott Brown Idaho Conservation League
13	6/8/98	Mike Mihelich Kootenai Environmental Alliance PO Box 1598 Coeur d'Alene, ID 83816
14	6/8/98	Clinton Western Range Service 990 5th St Elko, NV 89801
15	6/8/98	H. Sid Fredrickson City of Coeur d'Alene Wastewater Utility Division 710 E. Mullan Ave Coeur d'Alene, ID 83814
16	6/8/98	Glenn A. Smith 1040 Hemlock Dr. Lewiston, ID 83501

NO	DATE	NAME
17	6/10/98	Jerry Reese US Dept of Agriculture PO Box 208 St. Anthony, ID 83445
	6/10/98	Marble Front Concerned Citizens Association
18a		Marv Moist 21999 Middleton Caldwell, ID 83605
18b		Stan Meholchick 21500 Wells Road Caldwell, ID 83605
18c		Mike McGowan 20966 Wells Road Caldwell, ID 83605
18d		Mark Hribik 1515 N. KCID Road Caldwell, ID 83605
19	6/10/98	Greg Danly Empire Lumber Co PO Box 638 Kamiah, ID 83536
20	6/11/98	Dave Rydalch North Fork Reservoir Co PO Box 250 Rexburg, ID 83440
21	6/11/98	Didi Boocow 805 Tiger Ave Idaho Falls, ID 83401

NO	DATE	NAME
22	6/12/98	John Hurley 3341 N 900 E Castleford, ID 83321
23	6/12/98	Judy C. Harrison PO Box 2534 Hailey, ID 83333
24	6/12/98	Daniel G. Johnson Resource Organization on Timber Supply PO Box 86 Nezperce, ID 83543
25	6/12/98	Eric Bastian Franklin Soil & Water Conservation Dist. 98 East 800 North #3 Preston, ID 83263
26	6/15/98	Albert P. Barker Hawley Troxell Ennis & Hawley PO Box 1617 Boise, ID 83701
27	6/15/98	John N. Galbavy Hecla Mining Company 6500 Mineral Dr. Coeur d'Alene, ID 83815
28 & 29	6/15/98	Sterling Wallentine Bear Lake Soil & Water Conservation Dist. 110 N 5th Street Montpelier, ID 83254

NO	DATE	NAME
30	6/15/98	Tom Chelstrom 2646 N Westminster Pl Boise, ID 83704
31	6/15/98	Grant H. Jones Oneida Soil & Water Conservation District 175 S 300 E #1 Malad, ID 83252
32	6/15/98	Jack Streeter Streeter Real Estate 195 N 2nd West Mountain Home, ID 83647
33	6/15/98	David W. Crockett Western Stockgrowers Association 2678 Rock Creek Road Hansen, ID 83334
34	6/15/98	Leo C. Shelley 948 Henderson Dr Blackfoot, ID 83221
35	6/16/98	Eric Bastian Franklin Soil & Water Conservation District 98 East 800 North #3 Preston, ID 83263
36	6/16/98	Michael Miller Miller Investments LLC 770 Aberdeen Court Post Falls, ID 83854

NO	DATE	NAME
37	6/16/98	Wes Parr East Cassia Soil & Water Conservation Dist 1361 E 16th St Burley, ID 83318
38	6/17/98	Sterling Wallentine Bear Lake Soil & Water Conservation District 110 North 5th Street Montpelier, ID 83254
39	6/17/98	Ted R. Strickler, Board of Commissioners Custer County PO Box 385 Challis, ID 83226
40	6/23/98	C.E. Brockway Brockway Engineering 2016 N Washington, Suite 4 Twin Falls, ID 83301
41	6/17/98	Bob Einhaus 816 13th Ave Lewiston, ID 83501
42	6/17/98	W.R. Enget 248 W 2 Street St. Anthony, ID 83445
43	6/18/98	John N. Galbavy Hecla Mining Company 6500 Mineral Dr Coeur d'Alene, ID 83815

NO	DATE	NAME
44	6/18/98	Carolyn Hubble Thompson Creek Mining Co. PO Box 62 Clayton, ID 83227
45	6/19/98	Fred Rabe 1715 Appoloose Rd Moscow, ID 83843
46	6/18/98	Craig Shepard Division of Environmental Quality Boise Regional Office 1445 N. Orchard Boise, ID 83706
47	6/19/98	Joan Meital Boise City Engineering Dept. PO Box 500 Boise, ID 83701
48	6/19/98	Bruce Zoellick US Dept of Interior 3948 Development Ave Boise, ID 83705-5389
49	6/19/98	Tom Sutton Weiser River Soil Conservation Dist 847 East 9th Weiser, ID 83672
50	6/22/98	Grant H. Jones Oneida Soil & Water Conservation Dist. 175 S 300 E #1 Malad, ID 83252

NO	DATE	NAME
51	6/24/98	Mike Settell Portneuf Watershed Council PO Box 6002 Pocatello, ID 83205
52	6/30/98	Gerald F. King 170 N Sierra View Way Eagle, ID 83616
53	6/16/98	Patti Hurley 3341 N 900 E Castleford, ID 83321
54	6/25/98	David Rittenhouse US Dept of Agriculture 1249 S. Vinnell Way, Suite 200 Boise, ID 83709
55	6/25/98	Mark Lowe, RA Division of Environmental Quality Pocatello Regional Office 224 S. Arthur Pocatello, ID 83204
56	6/29/98	John E. Bentley S 3115 Millsap Loop Rd Post Falls, ID 83854
57	7/6/98	Bryan Ravenscroft Wood River Exec Board HC 60 Box 1469 Bliss, ID 83314

NO	DATE	NAME
58	7/9/98	Bryan Ravenscroft Wood River Exec Board
59	7/10/98	Will Reid Idaho Fish & Game 600 S. Walnut PO Box 25 Boise, ID 83707-0025
60	7/10/98	Charles Pezeshki Clearwater Biodiversity Project 1031 Spring Valley Rd Troy, ID 83871
61	7/14/98	Pamela J. Marcum Committee for Idaho's High Desert 1003 Strawberry Boise, ID 83712
62	7/14/98	Nick Johnston Committee for Idaho's High Desert 1003 Strawberry Boise, ID 83712
63	7/14/98	Jay G. Biladeau Idaho Dept of Lands PO Box 83720 Boise, ID 83720-0050
64	7/6/98	Eulalie Langford Love Bear Lake, Inc PO Box 386 Montpelier, ID 83254

NO	DATE	NAME
65	7/8/98	Vaughan Spiker Squaw Creek Soil Conservation Dist. 1805 Hwy 16 Rm #1 Emmett, ID 83617
66	7/9/98	Scott R. Engle US Dept of Agriculture 1600 Highland Dr Blackfoot, ID 83221
67	7/13/98	Dorrell Hansen Lower Boise River WQ Advisory Group (WAG)
68	7/13/98	Roger Stutzman Balanced Rock SCD 212 Deere Street Twin Falls, ID 83301
69	7/13/98	Carl Ellsworth Boise Public Works PO Box 500 Boise, ID 83701-0500
70	7/13/98	Bill DeVeny PO Box 1160 Riggins, ID 83549
71	7/13/98	Mike Settell Portnuef Watershed Council PO Box 6002 Pocatello, ID 83201

NO	DATE	NAME
72	7/13/98	Dirk Mace Yellowstone SCD 315 East 5th North St. Anthony, ID 83445
73	7/13/98	W. Greg Nelson Kuna City Mayor PO Box 13 Kuna, ID 83634
74	7/13/98	Frank Priestley Idaho Farm Bureau Federation PO Box 167 Boise, ID 83701
75	7/14/98	Janice Brown & Dale Swensen Henry's Fork Watershed Council PO Box 852 Ashton, ID 83420
76	7/14/98	Janice Brown & Dale Swensen Henry's Fork Watershed Council
77	7/14/98	Opal McKay Franklin Soil & Water Conservation Dist. 98 East 800 North #3 Preston, ID 83263
78	7/14/98	Larry McLaud Idaho Conservation League PO Box 9783 Moscow, ID 83843

NO	DATE	NAME
79	7/14/98	Larry McLaud Idaho Conservation League PO Box 9783 Moscow, ID 83843
80	7/13/98	Matt Woodard East Side SCD 1120 Lincoln Rd Idaho Falls, ID 83401 (forwarded from DEQ Idaho Falls Reg. Office)
81	7/9/98	Scott Engle, NRCS 1600 Highland Dr., Blackfoot, ID 83221 (forwarded from DEQ Idaho Falls Reg. Office)
82	7/15/98	Don Wright, IDFG 1515 Lincloln Road Idaho Falls, ID 83401 (forwarded from DEQ Idaho Falls Reg. Office)
83	7/15/98	Marti L. Bridges Idaho Rivers United PO Box 633 Boise, ID 83701
84	7/15/98	Guy A. Bailey Citizen Resource Advocate American Wildlands PO Box 254 Sandpoint, ID 83864
85	7/15/98	Diane M. Williams Rock Creek Alliance 1319 N. Division Sandpoint, ID 83864

NO	DATE	NAME
86	7/15/98	Samuel Penney Nez Perce Tribal Executive Committee PO Box 305 Lapwai, ID 83540
87	7/15/98	Kristen L. Boyles The Pacific Rivers Council 705 Second Ave, Suite 203 Seattle, WA 98104
88	7/15/98	Laurie Flaherty and Dr. Fred Rabe 1715 Appaloosa Rd Moscow, ID 83843
89	7/15/98	Panhandle Basin Advisory Group (Forwarded from DEQ Coeur d'Alene Reg. Office)
90	7/15/98	Scott Brown & Marv Hoyt Idaho Conservation League
91	7/15/98	Alfred Nomee Coeur d'Alene Tribe Fish Water & Wildlife PO Box 408 Plummer, ID 83851
92	7/15/98	Robert Russell US Dept of Agriculture Salmon-Challis National Forest RR 2, Box 600 Salmon, ID 83467

NO	DATE	NAME
93	7/15/98	Mike Mihelich Kootenai Environmental Alliance PO Box 1598 Coeur d'Alene, ID 83816
94	7/15/98	Carl Ellsworth Boise City Public Works PO Box 500 Boise, ID 83701-0500
95	7/15/98	Jeff Williams 3446 East 3100 North Kimberly, ID 83341
96	7/15/98	David Rittenhouse US Dept of Agriculture 1249 S. Vinnell Way, Suite 200 Boise, ID 83709
97	7/15/98	Judy Woodie Idaho Cattle Assoc. PO Box 15397 Boise, ID 83715
98	7/15/98	Timothy Hamlin US EPA Water Quality Unit 1200 Sixth Ave Seattle, WA 98101

NO	DATE	NAME
99	7/15/98	Allen Baltzor Baltzor Cattle Co., Inc. Jordan Valley, OR 97910
100	7/15/98	Gordon G. King East Castle Creek Allotment Permittees Glenns Ferry Grazing Assoc. PO Box 36 Murphy, ID 83650
101	7/15/98	Pete Jackson Riddle Ranches, Inc HC 32, Box 470 Tuscarora, NV 89834 John Jackson Petan Co of Nevada Inc HC 32, Box 450 Tuscarora, NV 89834
102	7/15/98	Jon Marvel Idaho Watersheds Proj. Box 1602 Hailey, ID 83333
103	7/16/98	Lynn Tominaga Idaho Water Users Association, Inc. 410 S. Orchard, Suite 144 Boise, ID 83705
104	7/16/98	Brian Sugden PlumCreek PO Box 1990 Columbia Falls, MT 59912

NO	DATE	NAME
105	7/16/98	Dave Van De Graaff Boise Cascade Southern ID Region PO Box 476 Emmett, ID 83617
106	7/17/98	Liz Sedler Lands Council & Alliance for the Wild Rockies PO Box 1203 Sandpoint, ID 83864
107	7/15/98	Dave Mosier & Glen Rothrock DEQ-Coeur d'Alene 2110 Ironwood Parkway Coeur d'Alene, ID 83014
108	7/13/98	Carl F. Austin Double Diamond Ranch PO Box 93 Oakley, ID 83346
109	7/20/98	Gerald L. Marchant 24 East Basin Road Oakley, ID 83346
110	7/20/98	Gary Macfarlane Friends of the Clearwater PO Box 9241 Moscow, ID 83843
111	7/20/98	David Mabe Intermountain Forest Industry Association N. 3731 Ramsey Rd, Suite 110 Coeur d'Alene, ID 83814
112	7/20/98	David F. Alexander US Dept of Agriculture Payette National Forest PO Box 1026 McCall, ID 83638
113	7/20/98	A Concerned Citizen
* *114*	*7/22/98*	*Nampa & Meridian Irrigation Dist. 5525 E Greenhaurst Nampa, ID 83686*
* *115*	*7/23/98*	*Dorrell Hansen & Ron Redmond Ada Co Highway Dist. 318 East 37th Boise, ID 83714-6499*
* *116*	*7/27/98*	*Judith Brawer American Wildlands 40 East Main Str, Ste 2 Bozeman, MT 59715*
* *117*	*7/24/98*	*Ron Mitchell Idaho Sporting Congress PO Box 1136 Boise, ID 83701-1136*

** Indicate those comments received 7 or more days after close of comment period.*

4.2 COMMENT PERIOD/PROCESS

61 **Did not respond to Committee for Idaho's High Deserts (CIHD) 1995 list of Stream Segments of Concern (SSOC) to add.**

CIHD's public information requests of May 22, 1998, were received by DEQ's Central Office on May 26 and 27. DEQ responded with a letter dated June 8 which included as much of the requested information as DEQ could provide in a timely manner. Since that time DEQ has located the information of concern and have been in contact with CIHD regarding it.

84 **Public had difficulty in obtaining list for review; comment period was too short.**

DEQ provided copies of the draft 303(d) package at all six regional offices, the central office and at various county libraries identified by the state library as official repositories (see Administrative Record for list of repositories). DEQ Central and Regional Offices responded to public information request for the list and additional data including but not limited to raw data, as required by the law. In addition, all regional offices presented the draft to their respective Basin Advisory Groups (BAGs) and Watershed Advisory Groups (WAGs). DEQ also met with numerous individuals and entities upon request to answer questions.

86 **Supplements to the Water Body Assessment Guidance (WBAG) internally drafted by DEQ without providing information to the public about the changes or supplements to the assessment document.**

The WBAG was presented as part of the draft package and as such acted as public notice and opportunity to comment.

90 **Lack of public involvement.**

DEQ initiated a public request for data and explained how the 303(d) process was proceeding. The public notice ran throughout the state for 30 days in 18 different papers, starting in November 1997. Regional offices included announcements to BAGs and local WAGs, as well as other state and federal entities. The draft 303(d) list was presented to all BAGs and WAGs in timely fashion, within the public comment period. In response to public requests, the comment period was extended an additional 30 days until July 15 with concurrent published public notices. DEQ feels it provided adequate opportunity for public involvement. See Chapter 1, Section 1.4 for more detail.

4.3 ASSESSMENT PROCESS/DEQ POLICY

59, 76, 84 91, 98, 102, 106 Habitat index should receive equal weight to Macroinvertebrate Biotic Index (MBI).

Not in this current edition of WBAG. Reasons for this are stated in the process paper Attachment 1.1. The process continues to evolve. These comments will be considered during the next revision.

DEQ has changed collection of monitoring data and assessment of monitoring data as it has gained a better understanding of aquatic biology and how it responds to human impact. Some of this change has been brought about by external means, most notably the Technical Review Committee. Evidence of this is reflected in moving from the original Plafkin et al. (1989) habitat evaluation, to the Hayslip (1993) habitat evaluation process, which was developed for the Pacific Northwest. Added emphasis on field crew training and over all field quality assurance (QA) through independent audits and published QA manuals and procedures for data review and entry. Adoption and development of rapid bioassessment techniques for reservoirs, lakes and large rivers in 1997 and 1998 is another improvement. Numerous pilot projects to look at better habitat tools, such as those in 1995 looking at riparian surrogates for temperature and the Zig Zag pebble count comparison to Wolman pebble count in 1996 were undertaken. DEQ also added conductivity and bacteria to BURP field collection variables in 1998. Initiated development of a fish index of biological integrity for cold water biota in 1998 as yet another improvement to the process. These demonstrate an effort and willingness on the part of DEQ to improve the overall process of data collection and assessment.

In addition to the section in the process paper describing the difficulties in measuring habitat, others have made similar findings or conclusions. Poole et al. (1997) found distinguishing different habitat types (i.e. riffles, pools, runs, glides etc.) difficult and problematic, even for professionals. Bauer and Ralph (1998) admit that habitat is an important limiting factor for fish and aquatic biota, however they also note there is little agreement on how to measure habitat quantitatively and how to evaluate the results. This is due in part to the highly variable nature of habitat whether in managed or unmanaged stream systems. Bauer and Ralph (1998) also note habitat quality is most often used as supportive information in water quality assessment programs. They feel that given the subjectivity and variability of habitat in the field, the best use of habitat is in evaluating progress towards meeting water quality goals and objectives and evaluating best management practices. They further note that it is not the intent of the Clean Water Act to use habitat criteria as surrogates for management goals as is suggested by many respondents to Idaho draft 303(d) list and associated assessment

processes. Bauer and Ralph (1998) recommend that habitat indicators be used within the framework of the nonpoint source feedback loop as diagnostic tools of water resource integrity. DEQ agrees with these findings and suggestions of both Poole et al. (1997) and Bauer and Ralph (1998), that habitat has its place, but not as a direct measure of the biology, hence our move to place less weight or emphasis on habitat in the evaluation of cold water biota or aquatic life beneficial use. Given the problems noted with habitat above, DEQ considered not using habitat at all in the assessment process. DEQ staff was not comfortable with eliminating habitat entirely, as suggested by EPA in their comments on the draft list. While some problems exist with what is measured and how its measured, the habitat component seemed important from all the studies on water quality/habitat relationships. As well as, DEQ staff strongly believes that habitat should be utilized in some fashion, hence the weighting option DEQ settled on. Finally, Karr and Chu (1997) sum up DEQ's philosophy on habitat and its use in assessing beneficial use support when they state, "Assessing habitat cannot replace assessing biology." "Sampling water quality or habitat structure can aid in interpreting data on biological condition; it cannot and should not be used to define biological condition."

61 **DEQ used inexperienced or little trained personnel for collecting data.**

DEQ BURP crews are trained. They follow a standardized methodology for collection and measurement of field parameters (see BURP work plans 1993-98). This is followed up by field audits to insure adherence to protocols and to fine tune training. In addition, BURP coordinators spend at least one day a week conducting Quality Assurance and Quality Control (QA/QC) reviews of crews.

61, 90
98 **No threatened waters identified.**

The Clean Water Act regulations require states evaluate existing and readily available water quality related data and information to develop the 303(d) list. Existing and readily available data includes waters identified by the state in its most recent 305(b) report as "threatened". 40 CFR § 130.7(b)(5)(i). In addition, the regulations define "water quality limited segment" as any segment where it is known that water quality does not meet applicable Water Quality Standards and/or is not expected to meet applicable Water Quality Standards. 40 CFR § 130.2(j). EPA Region 10 has interpreted this definition to mean that states should consider information indicating a declining trend in water quality and list those water bodies where such declining trends indicate the water body will not meet standards within the next listing period, i.e., within two years. See Guidance Document for Listing Water bodies in the Region 10 303(d) Program at pp. 3-7 (November 6, 1995).

DEQ has considered the information in its most recent 305(b) list. In addition, DEQ has considered any available data indicating a statistically significant downward trend in water quality that will result in a water body failing to meet Water Quality Standards within the next two years.

For the 1998 list, DEQ collected data regarding those water bodies placed on the list by EPA because they were identified as threatened in DEQ's 305(b) report and determined whether, based upon that data, the applicable uses were fully supported and Water Quality Standards were attained. Those water bodies for which the data indicated full support were removed from the 1998 list. Those water bodies for which the data indicated a "needs verification" call, i.e., those water bodies where there was insufficient data to determine full support or not full support, remain on the 1998 list.

DEQ listed no new water bodies on the 303(d) list as threatened because, for those water bodies currently supporting uses and meeting Water Quality Standards, DEQ found no existing and readily available data indicating a statistically significant downward trend in water quality that will result in such water bodies failing to meet Water Quality Standards in the next two years.

No data was received from the public that would indicate a declining trend as specified in DEQ's request for data. DEQ was very conservative in its listing. By being over inclusive DEQ believes, any threatened waters are included on the 1998 list. Segments that were originally listed as threatened by EPA and not removed retain the threatened tag on the final list.

61, 84, 86, 90, 91, 98, 102, 106 The Clean Water Act requires habitat modification and flow alteration be evaluated. DEQ did not list these as pollutants on 1998 303(d) list.

Section 303(d) of the Clean Water Act only requires TMDLs be calculated for those "pollutants" which the administrator of EPA has identified as suitable for such calculation. 303(d)(1)(C). The administrator of EPA identified all pollutants as suitable for TMDL calculation. 43 Fed. Reg. 60662 (Dec. 28, 1978). Therefore, whether a TMDL must be calculated depends upon whether a "pollutant" as defined in the Clean Water Act is involved.

The definition of "pollutant" in § 502(6) of the Clean Water Act includes a number of listed materials and categories of materials. The alteration of water flow and aquatic habitat are not among those items specifically identified as a pollutant in the definition, and also do not fit within any of the general categories of pollutants, such as industrial and agricultural wastes. In addition, EPA, in its comments on Idaho's Draft 303(d) list, appears to agree that the alteration of flow or habitat are not pollutants.

Therefore, the state will not identify these as pollutants or list waters that are impaired solely as a result of flow or habitat alteration.

DEQ did remove some water bodies that were listed for flow or habitat alteration. However, these water bodies were not removed because they were listed for these parameters; instead, they were removed because the scientific data collected by DEQ established compliance with water quality standards and full support of uses.

While not pollutants, flow and habitat alteration are often the result of or reflected 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 also may be affected by a lack of water flow. If the impairment is at least in part the result of excess sediment, the water body will be listed on the 303(d) list.

While not suitable for TMDL calculation, flow and habitat alteration are important factors affecting water quality and may be appropriately taken into account under other water quality programs.

See also the DEQ Working Rules and Assumptions for compiling Idaho's 1998 303(d) list.

78, 98 **Major changes needed in the analysis to better gauge water quality in Idaho.**

DEQ acknowledges this process can be improved. As DEQ collects more data and better understands water bodies, the assessment process will change and evolve. At this time, DEQ is comfortable with this process and feels confident in the process outcomes.

78, 90 **The determination of *ATTAINABILITY* for Cold Water Biota (CWB) should not be determined by macroinvertebrates and CWB presence/absence without fish data.**

The BURP process is not designed to evaluate "attainability". Section 8000 (use attainability) WBAG was not used in making the 1998 303(d) list.

84 **DEQ used the wrong temperature standard for bulltrout, should use 10° standard required by EPA; DEQ didn't use seven day average; this is a violation of 40 Code of Federal Regulation (CFR) Section 131.**

See DEQ temperature strategy in assumptions Chapter 1 of this document.

84, 90
91, 106 **Delisting should not be based on incomplete data where initial testing was inconclusive.**

DEQ assumes there are two possible reasons for this comment; 1) in the summary reports supporting de-listing and listing, individual site data are evaluated according to the WBAG, which follows a set process flow. It is possible to get an NV call at any of the four major process points. An example of this is where an MBI score for a particular site is between 2.5 and 3.5. When this occurred the report described this situation as "Marcoinvertebrate data inconclusive". The process doesn't stop here as the commenters indicate, but proceeds to the next step in the process until a call can be made, or 2) the data for the site proceeds through all the steps including habitat and still an NV is the final outcome. If this occurred for a previously listed water body then the water body remains on the list. If it was never on the 303(d) list then DEQ stands by their policy outlined in their Working Rules and Assumptions not to list these until further monitoring or data can make a definitive FS or NFS beneficial use status call.

86 **The state has decided to enlist a third group, which allows a stream to degrade. This decision by the state would allow all streams to be degraded to a point of minimal support of uses.**

DEQ is unsure of the issue or question.

86, 98 **DEQ does not analyze the fish, habitat and algae indices to show impairment. These indices will only remove streams from the 303(d) list or prevent placing additional streams on the list. This form of analysis is not scientifically valid and is merely a manipulation of the BURP data supporting the State's decision to remove streams from the 303(d) list. The use of fish, habitat, and algae indices to show support status for pesticides as a listed pollutant constitutes a misuse of these indices.**

Habitat and algae do give you impaired calls and as such could be the basis for a NFS determination. (See Section 1.2 and Figure 1.3) Fish and algae have been shown to be sensitive to pesticides (Burrows, and Whitton 1983) (Reynoldson 1987) (Clements 1994). Pesticides, in fact, were developed to control fish, algae, and other organisms (Nowell and Resek 1994). Rossano (1995, 1996) found distinct dose-response curves for some of the macroinvertebrate metrics she used in her study. These findings verified dose-response patterns previously described in North America. In the absence of specific pesticide information, DEQ relies upon the biology.

86 **Without scientific review, the Tribe cannot support the supplemental changes and the 1998 303(d) list as it is presented.**

DEQ relied and used previously developed scientific methods that had gone through a peer or agency review. This is the nature of "applied science", wherein previously approved methods and processes are adopted, since states are not in a position to do research necessary to develop these methods. The methods relied upon by DEQ are based on established and accepted scientific theory and principals. DEQ is not alone in adopting and applying previously reviewed methods, other states across the nation have done so as well. EPA has documented this approach in their summary of states biological assessment programs (Davis et al. 1996).

86 **The state chose not to list streams that fall within the "needs verification" category. Streams falling within the "needs verification" category should be identified by DEQ as top priority for additional study.**

DEQ stands by its policy for not listing these segments. Comments will be taken into consideration for 1999 BURP field season.

90, 98, 102, 117 An overall focus on monitoring of 303(d) waters at the expense of others.

DEQ does not feel that EPA's promulgated list accurately identified water quality impaired waters. Bauer and Ralph (1998) commenting on the original 1994 EPA 303(d) list, "no one knows with certainty if these streams should be on the list, if the streams are correctly identified, and if the causative agents are correctly identified." Sites monitored to date are a mixture of ones that were on and off the 303(d) list promulgated by EPA and represent a gradient of conditions from impaired to not impaired. The DEQ process and output reflect this. These were the objectives that drove yearly BURP work plans:

1993:

1. Beneficial use status
2. Arrive at some assessment of watershed integrity
3. Physical habitat condition
4. Try and establish relationships between predominate Non-point Source Pollution (NPS) activity and potential water quality impairments to beneficial uses.

1994:

1. Stream segments of concern (SSOC)
2. Reference streams
3. Unknown streams (with little to no monitoring information)
4. Water Quality Limited Streams
5. Watershed.

1995:

1. Water Quality Limited Streams
2. Steams with reference conditions
3. Watersheds (within the frame work for the watershed approach, an emerging strategy with DEQ, Monitoring and Technical Support Bureau 1994)
4. Streams for which DEQ has little to no monitoring information
5. SSOC
6. Cumulative Effects Process Streams.

1996:

1. Water Quality Limited Streams
2. Streams with reference conditions
3. Steams with little or no monitoring information
4. Cumulative Watershed Effects Process streams identified by Idaho Department of Lands (IDL)
5. Streams recommended by the Basin Area Groups.

Of the 2152 sites monitored between 1993 and 1996 and assessed for the 1998 303(d) list, 979 or 45% were on non-listed water bodies.

90 **Unacceptable to postpone TMDL development on newly listed waters until 2006.**

DEQ is working under a court approved schedule that lays out which hydrologic units and water quality limited segments therein will have TMDLs completed. DEQ has budgeted its resources in accordance with this schedule. To meet budget needs, new water quality limited water bodies will be scheduled for TMDLs starting in 2006. However, these newly listed water bodies could be incorporated with the current schedule if resources are available and the public deem the incorporation appropriate. This will be done on a case by case basis. The applicable WAGs and BAGs will be notified of the new water quality limited segments. DEQ will use the WAGs and BAGs to receive public input regarding incorporating these waters into the current schedule.

90 **Waters proposed for delisting have no temperature data.**

See DEQ temperature strategy.

90, 98 **Segments proposed for listing, but not for criteria accedences, are shown to have temperatures in excess of the CWB standard.**

See DEQ temperature strategy.

90 **States that Boise National Forest (BNF) fish data on Mores Creek isn't enough to delist, and that the qualitative comments in the analysis should keep it on the list.**

DEQ felt that there was sufficient data between four DEQ BURP sites and 17 Boise National Forest snorkel transects to remove it from the list.

90 **DEQ delisted streams with no BURP sites on them.**

In some instances, DEQ utilized outside data when it met the QA/QC requirements.

90 **States the lack of data over high and low flow water years.**

Time constraints relative to litigation and the BURP process mandated the monitoring schedule. This type of information was not considered in placing waters on the list. Bio-monitoring information integrates temporal and spatial water quality effects.

90 **Process: failure to look beyond bugs and criteria.**

DEQ looked at fish, in some instances algae, as well as habitat. See description of WBAG, Chapter 1.

90 **Results are different 3/12/98 to DRAFT list: Process change.**

The process was still developing, final draft reflects final developed process.

90, 98, 106 **Basing delisting on periphyton is not appropriate.**

Algae Biotic Index (ABI) was used in conjunction with insects and fish when available. Algae is another aquatic community often used to judge water quality conditions. (Bahls 1993, Mills et al. 1998) (See Attachment 1.2)

90 **Delisted water bodies that were listed for flow alteration, habitat modification, or thermal modification based on BURP.**

DEQ does not consider flow alteration or habitat modification a pollutant. Streams referenced in comment were listed for multiple pollutants by EPA originally. These waters were delisted when the scientific data showed attainment of Water Quality Standards and full support of uses.

90, 98 **Idaho proposed to de-list segments for which salmonid spawning (SS) support status was not evaluated.**

Salmonid spawning is evaluated independently if data exists. In the absence of any fish data, and no information to the contrary, DEQ feels MBI speaks for salmonid spawning. DEQ assumes that if the Macroinvertebrate Biotic Index tells us the stream is full support that the habitat is also suitable for salmonid spawning. See Section 4.6 for more detail.

90 **Idaho failed to discern where salmonid spawning is a designated, existing, or undesignated beneficial use.**

The Water Quality Standards identify designated beneficial uses and BURP identifies existing uses.

90 **DEQ failed to consider readily available (Idaho Department of Fish and Game (IDFG) presence/absence data) data on historic/present range of *INDIGENOUS* fish and failed to consider migration corridors in context of CWA.**

DEQ does not consider historic range of indigenous fish species in its assessment of salmonid spawning or cold water biota. DEQ believes these serious issues are better addressed in species conservation/recovery plans developed by the federal "services" under the Endangered Species Act. DEQ does not monitor migration barriers as part of the BURP monitoring protocol. However, migrations barriers are considered in question number one of the RIBI. This question is answered by senior staff with knowledge of such barriers.

90, 98, 106 **Did not monitor DO, ammonia, turbidity or trace elements.**

DEQ reviewed such data when it was available. However, when not available DEQ relied on biomonitoring/bioassessment concept where biology and beneficial uses are measured directly.

90 **Proposed delisting "bull trout" waters where no temperature data has been presented.**

See temperature strategy in assumptions Section 1.6 and Chapter 3.

90 **States CWA requires protection and propagation of INDIGENOUS shellfish, fish, and wildlife.**

The State protects all beneficial uses (salmonid spawning, cold water biota, etc.). Idaho Water Quality Standards do not differentiate between native and non-native species.

90, 98,
103 **Failure to consider all waters of the state. (Drains & Canals)**

Idaho designates and protects man-made waterways for the uses for which they were developed. The Idaho Water Quality Standards provide, in section 101 entitled "Use Designations for Surface Waters", the following language:

> Man-Made Waterways. Unless designated in Sections 110 through 160, man-made waterways are to be protected for the use for which they were developed.

This provision has been a part of EPA approved Idaho Water Quality Standards since 1980. In 1996 when EPA disapproved certain sections of the Idaho Water Quality Standards, this section was not disapproved. In fact, in response to concerns raised by the public that EPA's proposal to alter Idaho's public waters exclusion would impact certain man-made waterways, EPA emphasized that the man-made waterways designation in Idaho's Water Quality Standards was not disapproved and would still function to protect such waterways:

> The discussion provides some additional examples of the ways in which the interstate commerce requirement could be satisfied, i.e., if waters are or would be used as habitat by certain migratory birds, are or would be used as habitat by endangered species, or are used to irrigate crops sold in interstate commerce. (With respect to the latter, as explained below, if such irrigation waters are man-made waterways, they are outside the scope of today's rulemaking, even if waters of the United States, because they are not addressed by the state's excluded waters provision but rather protected under a different state provision.)
>
> . . .
>
> An important starting place is the scope of the state's "private waters" exclusion. First, that section does not apply to man-made waterways, which are instead addressed by Idaho 16.01.02.101.02, which protects man-made waterways for the uses for which they are developed unless specifically designated in Idaho Sections 110. through 160. for other or additional uses. Hence, man-made waterways are not affected by EPA's proposal, whether or not they are waters of the United States, because they were not part of the private waters exclusion from standards. . . .
>
> In short, the waters which might be affected by EPA's proposal are the very limited subset of waters in Idaho which (1) are not man-made

waterways, (2) are confined entirely to a particular person's land and (3) satisfy the commerce test for isolated waters under the definition of waters of the United States.

147 Fed. Reg. at 41176-41177 (July 31, 1997).

EPA, in its comments to Idaho's draft 303(d) list, states that man-made waterways must stay on the list because man-made waterways are not a beneficial use under Idaho Water Quality Standards and instead, man-made waterways fall within the undesignated surface water provision in Idaho's Standards and are protected for cold water biota. Therefore, according to EPA, man-made waterways can not be removed from the list unless there is data indicating full support of cold water biota.

DEQ does not agree with EPA's interpretation of Idaho's Water Quality Standards. Idaho has clearly designated these water bodies for the use for which they were created and the undesignated default protection for cold water biota does not apply. On the draft 1998 list, DEQ did remove Sand Hollow Creek and Mason Creek on the grounds that these water bodies supported the agricultural use for which they were created. However, while DEQ does not agree with EPA's position, DEQ will leave these water bodies on the final 1998 list until this issue can be resolved. .

90 **Lack of temperature and fish data.**

DEQ considered all data that it was able to obtain, which met DEQ's QA/QC requirements. It was in reviewing this data that DEQ uncovered the problem with the temperature standard and DEQ's temperature strategy.

90, 98, 106 **Delisting of stream miles resulting from boundary changes.**

Water bodies with Boundary Changes may seem inconsistent with DEQ's Water Body Assessment Guidance, whereby the lowest beneficial use status call (also called lowest common dominator) for two or more BURP sites is used for the whole segment. Under certain circumstances DEQ de-listed portions of a stream when sites were distributed spatially on a stream from headwaters to mouth. In these situations the upstream site(s) were determined to be FS and the downstream site(s) were either NFS or NV. This was the only scenario where boundary changes were considered.

This scenario, FS above and NFS or NV below, is in agreement with the river continuum concept and cumulative effects watershed studies, that speak to the longitudinal nature of stream ecosystems (Vannote et al. 1980, Sidle 1989, and Bisson et al. 1992). In these situations activities taking place in the upper watershed influence water quality and beneficial uses in downstream reaches. Thus the upper

sections may well be FS as determined by DEQ through BURP and WBAG and its only in the lower sections where tributary influence combined with the depositional/response nature of streams, where water quality impacts emerge. The BURP coordinator, thus considered the BURP/WBAG outcomes, land use, stream order and other factors in deciding whether to make an official boundary change (see DEQ 3/10/98 boundary change memo in administrative record). Often there were land management changes along a stream course which lend credence to a change in impairment and a subdivision of the stream boundary. DEQ used this rationale to better define the extent of and focus attention and resources on real water quality problems.

91, 98 Waters listed within the Reservation boundary should not be listed by the State.

EPA has noted that Idaho has proposed delisting waters located wholly or partially on tribal reservations. EPA has stated that the listing of such waters by EPA on the 1994 list remains in effect and that the development of TMDLs for these waters is still expected until such time as they are removed from the list by EPA.

DEQ agrees that some of the waters on the 1994 and 1996 lists, and some waters that remain on the 1998 list, may be wholly or in part within Indian reservations and/or on lands held by tribal members subject to a restriction on alienation or held by the United States in trust for Indian tribes. DEQ's actions with respect to the 303(d) list and such waters does not constitute a determination, waiver, admission or statement on the part of the state of Idaho with respect to jurisdiction over such waters.

DEQ believes, based upon the data it has collected, that some of these waters are not impaired, should not be on the 303(d) list and TMDLs should, therefore, not be developed. EPA has provided no information to contradict DEQ's conclusions. EPA asserts that the authority to remove such a water body from the list rests with EPA and not the state of Idaho. Since this is EPA's position, DEQ suggests EPA should review the data regarding such waters and make a decision on whether they should remain on the list. Until it is established DEQ's conclusions regarding impairment are inappropriate, DEQ does not intend to develop TMDLs for the waters it has determined are not impaired.

91 Intermittent streams which were dry at time of sampling <u>do</u> have beneficial uses to protect.

No beneficial uses existed at the time of sampling. However, those sites that were on the 1996 list and were dry when sampled remain on the 1998 list.

91 **Boundary changes were not made the same for NFS and FS sites.**

See DEQ memo dated March 10, 1998 relative to boundary change guidelines. Furthermore, these boundary changes were reviewed by Regional Offices with on the ground knowledge of the water body.

91 **Support status for recreation and water supply cannot be defaulted to CWB.**

DEQ analyzed these uses separaately from CWB. See policy, 1996 Water Body Assessment Guidance, Appendix G, and Chapter 1.2 of this 303(d) package.

91, 98 **DEQ needs to explain why wildlife habitat, aesthetics, and industrial water supply were always designated FS and not evaluated.**

These uses apply to all water bodies and are not required by the CWA. DEQ did not separately analyze support for these uses, but instead assumed full support status.

97 **Objects to the inclusion of intermittent and/or ephemeral streams.**

DEQ utilized EPA's list.

103 **Objects to Flow alteration and habitat modification being included on some streams on the 1998 303(d) list.**

DEQ does not recognize these as pollutants, however, DEQ must deal with them relative to the original EPA list. Reference the Idaho DEQ Working Rules and Assumptions for Compiling Idaho's 1998 303(d) list, and response to previous comments in this section.

103 **Inclusion of man made water ways and water bodies constructed for sole purpose questioned, proposes use of different criteria to assess these water bodies.**

Idaho designates and protects man-made waterways for the uses for which they were developed. The Idaho Water Quality Standards provide, in section 101 entitled "Use Designations for Surface Waters", the following language:

> Man-Made Waterways. Unless designated in Sections 110 through 160, man-made waterways are to be protected for the use for which they were developed.

This provision has been a part of EPA approved Idaho Water Quality Standards since 1980. In 1996 when EPA disapproved certain sections of the Idaho Water Quality

Standards, this section was not disapproved. In fact, in response to concerns raised by the public that EPA's proposal to alter Idaho's public waters exclusion would impact certain man-made waterways, EPA emphasized that the man-made waterways designation in Idaho's Water Quality Standards was not disapproved and would still function to protect such waterways:

> The discussion provides some additional examples of the ways in which the interstate commerce requirement could be satisfied, i.e., if waters are or would be used as habitat by certain migratory birds, are or would be used as habitat by endangered species, or are used to irrigate crops sold in interstate commerce. (With respect to the latter, as explained below, if such irrigation waters are man-made waterways, they are outside the scope of today's rulemaking, even if waters of the United States, because they are not addressed by the state's excluded waters provision but rather protected under a different state provision.)
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> An important starting place is the scope of the state's "private waters" exclusion. First, that section does not apply to man-made waterways, which are instead addressed by Idaho 16.01.02.101.02, which protects man-made waterways for the uses for which they are developed unless specifically designated in Idaho Sections 110. through 160. for other or additional uses. Hence, man-made waterways are not affected by EPA's proposal, whether or not they are waters of the United States, because they were not part of the private waters exclusion from standards. . . .
>
> In short, the waters which might be affected by EPA's proposal are the very limited subset of waters in Idaho which (1) are not man-made waterways, (2) are confined entirely to a particular person's land and (3) satisfy the commerce test for isolated waters under the definition of waters of the United States.

147 Fed. Reg. at 41176-41177 (July 31, 1997).

EPA, in its comments to Idaho's draft 303(d) list, states that man-made waterways must stay on the list because man-made waterways are not a beneficial use under Idaho Water Quality Standards and instead, man-made waterways fall within the undesignated surface water provision in Idaho's Standards and are protected for cold water biota. Therefore, according to EPA, man-made waterways can not be removed from the list unless there is data indicating full support of cold water biota.

DEQ does not agree with EPA's interpretation of Idaho's Water Quality Standards. Idaho has clearly designated these water bodies for the use for which they were created and the undesignated default protection for cold water biota does not apply. On the draft 1998 list, DEQ did remove Sand Hollow Creek and Mason Creek on the grounds that these water bodies supported the agricultural use for which they were created. However, while DEQ does not agree with EPA's position, DEQ will leave these water bodies on the final 1998 list until this issue can be resolved. .

98, 103 Objects to using BURP data as sole source of data inadequate to list a water body.

BURP data can be used and was used in conjunction with other data provided it meets the DEQ QA/QC requirements. DEQ feels BURP/WBAG are strong enough to stand on their own given their sound ecological foundation. The states of Ohio and Delaware have very similar assessment process as Idaho, wherein, macroinvertebrates are relied upon to make beneficial use determinations. Their processes are supported and approved by their respective EPA regional office. Secondly, Idaho's metric use within the MBI match up very well with those recommended and used in the Pacific Northwest (Karr and Chu 1997). Karr and Chu (1997) noted that these similarly applied metrics prove to be reliable indicators of human influence across the Pacific Northwest, regardless of ecoregion.

103 Upper segment vs lower segment if lower segment listed Waste Load Allocation (WLA) still applies to Upper segment.

This may or may not be the case. Source identifications and allocation are best done in through SBA & TMDL.

98, 106 Water bodies were delisted when MBI was FS and salmonid spawning was not assessed. All beneficial uses must be fully supported in order to delist.

Without evidence to the contrary, DEQ feels this is a reasonable assumption. See Section 4.6 for more detail.

98, 117 DEQ delisted streams from headwaters to mouth.

DEQ delisted segments whose boundaries were originally defined by EPA.

117 Criteria not applied to stream if MBI was FS.

Water Quality Standards criteria are applied and evaluated.

117 **We should use fish or habitat as a check to MBI.**

The process does not rely entirely on the MBI in all instances for CWB status determination. Fish data is evaluated when available for salmonid spawning, or if MBI is inconclusive.

4.4 POLLUTANT/SOURCE IDENTIFICATION

61, 76, 86, 91, 98, 106 **The reason for listing each water body (i.e. a specific pollutant and its source) should be specified on the 303(d) list. Further, evaluation based on initial BURP monitoring may prevent inaccurate listing if a specific pollutant and a source is identified.**

Water bodies added "new" for this listing cycle are listed unknown in the pollutant category. DEQ notes this unknown pollutant category was used by EPA in its original 1994 list (11 as either; "none listed or no contaminant"). DEQ is not prepared to make a guess, even if educated at this time, based on the output of DEQ's assessment process. The data collected through BURP is reconnaissance in nature and intended to denote whether or not a particular water body is impaired. DEQ is uncomfortable with stretching the data to include pollutants or sources for purposes of the 303(d) list. DEQ feels this type of specificity is better suited for the subbasin assessment or problem assessment phase of the TMDL. Additionally, DEQ is reluctant to specify pollutants on the 303(d) list without complete confidence in that designation, given the difficulties experienced in dealing with mis-diagnosed pollutants in TMDLs. The burden of proof or evidence required to remove a pollutant is overly burdensome in terms of manpower and time. Getting the pollutants correct the first time is critical, such that DEQ does not want to guess at this time, without further information or monitoring.

86 **DEQ needs to identify the procedure for identifying pollutants and the timeliness of this additional analysis.**

BURP does not determine the sources of pollutants, but is designed to determine the status of beneficial uses. Identification of pollutants and their sources are determined in the SBA and TMDL.

86, 98 **DEQ is unable to establish clear, causative relationships between impairment conditions and specific pollutants using BURP alone.**

The relationships between the cause and effect will be addressed in the TMDL problem assessment. DEQ does not feel it reasonable to throw out the process merely because it can not distinguish causative effects of impairment. Because of the development nature of this science and its application, few states or entities are able to make these types of connections (Karr and Chu 1997). As Karr and Chu state, "This comment implies that we must understand the means by which something happens, not just that it happens, before we act. But where would medicine be now if doctors had to understand how diseases worked before treating them or how drugs worked before

using them?" Similarly, DEQ feels the current process is useful even if specific causative agents (pollutants) can't always be identified at this time.

97 **Clarification of load calculations for bacteria and total phosphorus (TP). Assumptions and representative sampling.**

Comment is a request for clarification on methodology being used to determine *E. coli* and phosphate loads of water bodies in general. Question not specific to 303(d) list.

4.5 BIOASSESSMENT

61, 98, 102 **DEQ emphasis on bugs not water quality criteria is inadequate.**

EPA has recognized Rapid Bioassessment as a valid water quality assessment tool. DEQ believes that the aquatic macroinvertebrates that live in Idaho's waters are a better reflection of the water quality compared to the use of water quality chemistry alone. DEQ feels biology should be the final arbitrator in determining water quality status.

61, 98 **When MBI = FS does not indicate salmonid spawning= FS.**

Salmonid spawning is evaluated independently if data exists. In the absence of any fish data, and no information to the contrary, DEQ feels MBI speaks for salmonid spawning. DEQ assumes that if the Macroinvertebrate Biotic Index tells us the stream is full support that the habitat is also suitable for salmonid spawning. See Section 4.6 for more detail.

61, 78, 98, 102, 106 **Bioassessment inadequate to list streams, sampling area extremely limited, Stream dynamics and pollution processes are too complex for Bioassessment.**

The BURP process was never intended to be an intensive monitoring program. EPA has recognized Rapid Bioassessment as a valid water quality assessment tool. (Barbour, et al. 1997). EPA Region III informed DEQ that in a 303(d) lawsuit in Delaware where the plaintiffs requested, as part of the court settlement, that biological data be collected and evaluated for purposes of Delaware's 303(d) list (EPA Region III. Guidance for the State of Delaware. December 22, 1997). This guidance looks very similar to DEQ's MBI. The plaintiffs recognized the importance of assessing biology and not merely physical/chemical parameters, because the biology is a better indicator of water quality impairment, often missed by physical/chemical assessment alone. EPA has clearly supported the development of bioassessment for non-point water quality assessment in Idaho and other states. A recent EPA publication states "where criteria for specific ambient impacts do not exist (e.g., nonpoint source impacts that degrade habitat), biological communities may be the only practical means of evaluation" (Barbour et al. 1997). BURP directly measures cold water biota and salmonid spawning beneficial uses. The remaining beneficial uses besides primary and secondary contact recreation are generally considered fully supported in Idaho unless data or other sources of information indicate otherwise. DEQ has taken a more proactive approach for 1998 in collecting data for assessing primary and secondary contact recreation. These data will be used for future assessment processes. EPA (1998) in their guidance for biological criteria, acknowledged the difficulty in

measuring and interpreting human impacts to water quality when they state, "Under most circumstances discharges from nonpoint sources are difficult to monitor due to their diffuse and episodic nature. Biological criteria, as direct and integrative measures of the condition of the aquatic community, are needed to more accurately assess the cumulative impacts from these types of stresses." It has also been pointed out in this document that the amount of data used by DEQ from the BURP process is heads and shoulders above the "data" used to list many of these streams originally.

As to sampling area being limited, the protocol used in BURP to characterize a reach (minimum of 100 meters or criteria based on wetted width at time of survey) is supported and used by many other states and entities in their monitoring programs (Meador et al. 1993, Barbour et al. 1997, EPA 1998, Fore et al. 1996, Plotnikoff 1992). The use of single habitat units for sampling of macroinvertebrates is also supported because it is cost effective, reduces variability and riffles are the easiest habitat type to identify consistently in the field (Fore et al. 1996, Karr and Chu 1997).

78, 90 **Macroinvertebrate samples are "point samples" and are not temporally or spatially representative enough for determining beneficial use ATTAINABILITY.**

EPA has clearly supported the development of bioassessment for non-point water quality assessment in Idaho and other states. (Barbour et al. 1997, Barbour et al. 1996, Davis et al. 1996 and Klemm et al. 1990) A recent EPA publication states "where criteria for specific ambient impacts do not exist (e.g., nonpoint source impacts that degrade habitat), biological communities may be the only practical means of evaluation" (Barbour et al. 1997). One of the basic tenants of Rapid Bioassessment Protocol (RBP) is the idea that macroinvertebrates taken at a single location integrates both spatially and temporally human influences affecting water quality taking place above that site.

BURP and other rapid bioassessment protocols are best used for detecting aquatic life impairments and assessing their relative severity. Once an impairment is detected, however, additional chemical and biological testing is usually necessary to determine specific causes (Barbour et al. 1997). This type of monitoring is envisioned as part of the SBA and TMDL.

98, 117 **No explanation of ABI.**

See Attachment 1.2 for an explanation of the Algae Biotic Index.

4.6 MBI/MACROINVERTEBRATE

78 **There is no strong correlation between bugs and sediment.**
90 **MBI does not adequately protect fisheries when sediment is the pollutant.**
91 **MBI breaks are invalid and bias toward full support.**
91 **According to Technical Review Committee (TRC) report, the methods used to select and validate MBI metrics are not technically defensible.**
91 **MBI should include insect assemblage metrics that are tolerant or intolerant to pollutants.**
98, 106 **MBI and HI breakpoints are questionable.**

The 1996 Water Body Assessment Guidance discusses the methodology DEQ used to determine the HI break points. DEQ utilized a method to determine reference conditions proposed by Karr et al. (1986). This method calculates the 95th percentile of the ecoregions highest total habitat score. The ecoregional high was divided into thirds. The upper 1/3 was "full-support", the middle 1/3 was "needs verification" and the lower 1/3 was "not full support". The values and break points are considered to be provisional by DEQ. As DEQ's knowledge of the habitat requirements for beneficial uses in Idaho increases, DEQ will modify the break points as appropriate, however, in the interim, DEQ feels that the approach advocated in the 1996 Water Body Assessment Guidance is sufficient for the 1998 listing cycle.

Because DEQ lacked the confidence to pick reference conditions as Idaho State University had done in their RBP development work, another method for discerning reference had to be chosen. To do this, DEQ selected the highest metric score for each individual metric within an ecoregion. This ecoregional high was then set at one and all lower scores were normalized to this value. The data were then plotted in rank order. Slope breaks were noted at specific areas in the curves between 2.7 and 3.1 for component metrics and ecoregions. These breaks were more pronounced in small data sets ($n \leq 50$) and tended to smooth out as a data set increased. Hughes (1995) commented that curve inflection and curve breaks are sometimes used to determine acceptable or unacceptable index values. Karr and Chu (1997) support this method as well, "Natural shifts or breaks in the distribution of metirc values can guide the setting of scoring criteria; indeed, scoring criteria should be adjusted to fall at these points because the points often reflect a biological response". The range noted above was arbitrarily widened to 2.5 and 3.5 as a more conservative assumption. Conservative meant making it easier to get an NFS call and more difficult to get a FS call.

Several qualitative tests were done to evaluate the appropriateness of the MBI break points. In the first test, two different DEQ Aquatic Ecologist evaluated the macroinvertebrates from a random batch of BURP sites. The ecologist then assigned a FS or NFS call to each site based on their analysis of the macroinvertebrates. The

MBI scores from these sites were then compared to the ecologists' calls. DEQ found that 100% of the MBI scores (i.e. ,=2.5 or >=3.5) coincided with the ecologists' calls.

A second qualitative test was conducted to see if this pattern held. In this test, a random batch of BURP sites were given to each of the six regional BURP coordinators. Half of the sites were,<=2.5 and the other half were >=3.5, however this information was not given to the coordinators. They were asked to make a FS or NFS call based on their knowledge of the site, review of the field forms or information from other resource professionals. They were not to look at the laboratory bench sheets for macroinverterbrates nor the MBI scores. The six regional BURP coordinators placed the sites in the appropriate category 108 out of 117 times, or 92% of the time.

One of the tests returned to the central office from a regional coordinator had a 57% success rate. This alarmed staff in the central office who expected and saw higher success rates from other coordinators. When central office called the individual coordinator, he said the 57% came from flipping a coin, heads for FS and tails for NFS. He then gave us his calls which placed the random sites in the correct category 18 out of 21 times (86%). While none of these examinations of the MBI break points is a true statistical test, they do support the theory that MBI scores <=2.5 are indeed impaired and MBI scores >=3.5 are not impaired.

91 **Macroinvertebrates were sampled in best insect habitat.**

Selection of the riffle habitat for sampling was done both to limit the variability inherent in sampling natural substrates (Plafkin et al. 1989) and to provide consistent state-wide data for comparison. The objective of DEQ is not to provide a complete list of invertebrate taxa for a site which would require sampling of all habitats over time. In their most recent paper Karr and Chu (1997) recommend single habitat sampling in riffles.

91 **MBI should include insect assemblage metrics that are tolerant or intolerant to pollutants.**

The MBI does include insect assemblage metrics that are tolerant or intolerant to pollutants. These have been shown by (Barbour et al. 1992, Resh et al. 1995, Fore et al. 1996) to respond to human activities. See Chapter 1 of WBAG for explanation of Hilsenhoff Biotic Index (HBI) and taxonomic listing of macroinvertebrates which indicates relative tolerance and intolerance of the taxa.

61, 86, 91,
106, 117 **DEQ uses a rating scale of the macroinvertebrate index without scientifically validating the range for "support", " non-support", and "needs verification" status decisions.**

98 **"Use of Macroinvertebrate Data to Evaluate Aquatic Life Uses:
The use of macroinvertebrate data is a key element of the WBAG decision making process, but the basis and rationale of the macroinvertebrate biotic index (MBI) is not spelled out. Idaho needs to explain how they derived the MBI scoring system, and provide rationale as to why a break in the slope of the curve (at 3.5) equates to full support of cold water biota. This should include an explanation describing why the Idaho MBI index in particular is sufficient to indicate fisheries and other aquatic life uses are fully supported, including instances where fisheries may be impacted by habitat degradation. The explanation should also address why the Idaho MBI index is adequate to evaluate beneficial use support status given the inconsistency between MBI scores and major criteria exceedances (see WBAG comments below under Documents 1 and 2)."**

While EPA is aware that indices such as MBI cannot provide complete certainty that such uses are fully supported, it is incumbent upon the state to document the rationale that the use of the index is reasonable. Idaho did not develop the concept that the biological integrity of streams can be evaluated based on an analysis of benthic macroinvertebrate assemblages. Rather, DEQ has adapted well established and widely used techniques to evaluate water quality conditions using aquatic macroinvertebrates (Plafkin et al. 1989, MacDonald et al. 1991, Barbour, et al. 1996, Barbour et al. 1997, Fore et al 1996, and Robinson and Minshall 1995). While few advocate ignoring fisheries in water quality analyses, many others have developed and advocated the concept that biosurveys using macroinvertebrates are a recommended tool to identify and interpret water quality in streams. Indigenous benthic macroinvertebrates are abundant in most streams; have either limited migration patterns or are sessile, which make them suitable for site specific impacts. Their life spans of several months to a few years allow them to be used as continuous indicators of sediment and water quality by integrating spatial and temporal variation, rather than a snapshot of conditions at one space in time. Fish and other assemblages do not share all these attributes, and therefore many states use macroinvertebrates as primary indicators of overall water quality (Davis et al. 1996).

The MBI and its preliminary thresholds of support were derived as indicators of water quality suitable for aquatic life as described in the Idaho's DEQ Stream Assessment Process Paper. However, while these thresholds may be subjective, their performance is the critical factor to ultimately verify the appropriateness of the threshold (Barbour et al. 1997).

The following evaluations have been completed to evaluate the meaningfulness of the full support threshold: (1) comparison of the distribution of MBI scores from 303(d) listed and non-listed streams (1996 list); (2) comparison of *a priori* less disturbed and disturbed streams; (3) comparison of fisheries indicators of support and MBI thresholds, (4) testing the response of the MBI to fine sediment; and (5) testing the MBI with pollutants of concern. All five evaluations support DEQ's premise that the MBI responds to a range of conditions, increasing in streams with better water quality, and therefore, is a reasonable tool to assess general water quality to support aquatic life uses.

Figure 1 shows the range of MBI scores from listed and non-listed streams. The data shows that very high and low scores occur in both groups; overall, both groups have a near normal distribution. The MBI is assembled from individual metrics which were based on the highest values from each ecoregions. Figure 1 shows that macroinvertebrate samples collected from a wide range of stream conditions produce a wide range of MBI scores with a nearly normal distribution. The significance of Figure 1 is that were there no relationship between MBI scores and environmental conditions then no pattern would be apparent. The cumulative frequency plots show that approximately 38% and 28% of the sites had MBI scores less than 3.5 from 303(d) listed and non-listed sites respectively. *These factors support the conclusion that the MBI scores are responsive to a range of environmental conditions.*

Figure 2 shows the ranges of MBI scores from comparisons of *a priori* reference and impacted (test sites) from the different ecoregions of Idaho. The classifications were made by regional DEQ biologists who were asked to group the sites based on factors such as physical habitat characteristics, known upstream disturbances, and chemical data. Macroinvertebrate data were not considered in the classifications. In all groups, the MBI scores for reference sites were significantly higher for reference sites than for impacted sites within an ecoregion. *These comparisons support the conclusion that the MBI is sufficiently powerful to discriminate reference from impacted sites.*

Excessive sedimentation from nonpoint sources is generally considered to be the most pervasive water quality problem in Idaho and nationally. Sediment is listed as a pollutant on 93% of streams included on the 1996 303(d) list. Excessive amounts of fine grained sediment particles is the water quality concern with sediment in most systems. Figure 3 shows the percentages of surface fines occurring at sites with MBI scores above and below 3.5, DEQ's benchmark of an un-impaired macroinvertebrate assemblage. In all groups, higher percentages of fine grained sediments occurred at sites with MBI scores less than 3.5 than occurred at sites greater than 3.5. Further, the percentages of stream surface fine sediments occurring at sites with MBI scores greater than 3.5 (16 - 24%) are similar to those recommended for supporting salmon reproduction (20%) (National Marine Fisheries Service (NMFS) 1995) and are similar

to mean values occurring from natural stream conditions occurring in roadless areas of the Salmon River Basin (23-34%) (Overton et al. 1995). Further, BURP data from central and eastern Idaho shows that locations with reproducing salmonid and sculpin populations (>2 age classes present) averaged 22% and 18% surface fine sediments respectively (Figure 4). *These comparisons support the conclusion that the occurrence of MBI scores greater than 3.5 is associated with the ranges of surface fine sediments which have independently been shown to be favorable for support of cold water fish communities.*

Figure 5 shows that locations with MBI scores greater than 3.5 tend to have more age classes of salmonids present than do sites with MBI scores less than 3.5. Conversely, sites with reproducing salmonid populations (>2 age classes present), tended to have higher MBI scores than sites without evidence of reproducing salmonids. *These comparisons support the conclusion that high MBI scores are associated with support of cold water fisheries.*

Figure 6a shows the relationships between copper concentrations and MBI scores and phosphorous and MBI scores. The copper data are from Panther Creek, a well studied drainage with low human influences in the riparian or aquatic areas except for an acid mine drainage problem. This situation makes the drainage nearly an experimental watershed with upstream controls and downstream test sites. The results of these 30 co-located chemistry and macroinvertebrate samples show that the MBI correctly identified unaffected sites 71% of the time (10/14 sites meeting Water Quality Standards had MBI scores >3.5) and correctly identified impacted sites 100% of the time (16/16 sites not meeting Water Quality Standards had MBI scores <3.5). Some of the presumably un-affected sites could have un-identified stressors present, meaning the accuracy of the MBI for un-impacted sites could be higher than 71%. For example, one unaffected stream with an MBI score <3.5 receives large geothermal inputs which can alter the macroinvertebrate assemblage. These tests are with copper, however zinc and other metals have been shown to have adverse effects to macroinvertebrates (Burrows and Whitton 1983, Reynoldson 1987, Clements 1994). Water Quality Standards for several trace metals are based on empirically derived hardness and effects relationships. Therefore it is reasonable to assume that the MBI would respond to exposure of macroinvertebrates to the criteria trace metals. *This evaluation supports the conclusion that high MBI scores are unlikely to occur when trace metals are significantly elevated above standards. The MBI is a reasonable tool to screen for potential effects of elevated trace metals.*

Figure 6b shows that over a range of moderate phosphate concentrations, the MBI reflects abundant and diverse benthic macroinvertebrate assemblage. At the highest phosphate concentrations, associated MBI scores are low. In addition to these data, DEQ notes that the components of its MBI were either developed specifically for detecting effects of organic enrichment (the HBI index) or have been widely applied to

evaluate organic enrichment (the richness and community balance metrics). Further, to evaluate whether a stream's aquatic life beneficial uses are impaired by nutrients, field crews are to note and photograph conditions so that the regional water quality assessor can evaluate whether "nuisance" conditions are present. *These factors support the conclusion that the MBI is responsive to organic enrichment and that DEQ's overall beneficial use reconnaissance survey approach is a reasonable approach to evaluating stream impairment from excessive nutrients.*

The only significant inconsistencies between criteria exceedances and high MBI scores that DEQ is aware of are for temperature. These may occur even in the presence of obligate cold water invertebrates or fish (the "cold water indicators"). DEQ recognizes significant uncertainties exist in the biological significance of occasional or slight exceedances of numeric temperature criteria (see Chapter 3). *To summarize, all available information supports the use of the MBI as a reasonable tool to assess overall water quality conditions for aquatic life, including but not limited to the benthic macroinvertebrate communities.*

98 **Fish index - DEQ's Reconnaissance Index of Biological Integrity (RIBI): A questionnaire approach is used to evaluate fish information. Answers are used to determine whether a water body is fully supporting its uses, or uses need verification. Current rapid bioassessment protocols (Revision to Rapid Bioassessment Protocols for Use in Streams and Rivers: Periphyton, Benthic Macroinvertebrates, and Fish ; (Barbour et al. 1997) do not support the use of a questionnaire approach for evaluating use support. It is not clear why Idaho has not used a quantitative index to evaluate their quantitative fish data. In addition, no rationale is provided as to why the questionnaire is legitimate to determine full support, but is not legitimate to determine not full support. In its present form, EPA could not support the use of this index for decision making.**

The critical issue for evaluating whether the fish component of coldwater biota is supported is not whether a questionnaire approach is used but rather what those questions are and what the answers are. Naturally reproducing fish populations, with significant representation by generally pollution intolerant species (e.g. salmonids and sculpins) are the types of fish assemblages that will pass the "RIBI" questionnaire. Otherwise, one or more questions will direct a less than full support finding. DEQ believes that most regional fisheries biologists would consider the presence of this type of fish assemblage to indicate favorable water quality conditions.

The draft protocols referenced are a compendium of methods, not EPA policy guidance or a regulatory tool. To clarify why Idaho has not yet developed a quantitative index for fish data, please consider that (1) quantitative indexes are difficult to develop and validate, (2) no quantitative fish index that is broadly applicable to small western streams has ever been developed and published, (3) while

both the draft revisions to EPA's Rapid Bioassessment Protocols give general suggestions on how quantitative fish indexes could be developed, EPA has never developed regional fish indexes that could be used in lieu of state's developing criteria. While DEQ strongly disagrees with your implication that developing a quantitative fish Index of Biological Integrity (IBI) is a trivial matter, DEQ agrees that a quantitative fish IBI would be a beneficial assessment tool, and we intend to continue working to develop this tool. DEQ appreciates your encouragement and looks forward to your continued cooperation in this matter.

As used, the RIBI effectively is used to determine whether a previously listed water should be either retained or de-listed. If any of the RIBI questions are "failed", the effect is that the site would be considered "needing verification" and, since not fully supporting aquatic life uses, were retained on the 303(d) list. *In summary, the "RIBI" is an objective and reasonable approach to evaluating the fisheries component of support of the cold water biota beneficial use.*

117 DEQ should not have subsampled (first 500 count).

Subsampling is a well established method of dealing with large samples (Plafkin et al. 1989, Klemm et al. 1990, Caton 1991, Clark and Maret 1993, Cuffney et al. 1993, Lenat and Barbour 1994). DEQ's selection of the first 500 count of invertebrates from a sample resulted in adequate characterization of the samples. In half of the DEQ samples, the 500 count resulted in identification of the entire sample. For the remaining samples the 500 individual count meets or exceeds that suggested by current research (Resh and Jackson 1993). In addition, large and rare invertebrates are selected so that no taxa are missed by the subsampling effort (Cuffney et al. 1993).

98, 117 DEQ has used notoriously unreliable metrics.

The metrics DEQ has selected work well for Idaho. DEQ believes that any minor inadequacy in a metric is evened out by the use of the multimetric approach rather than using these metrics alone. These established metrics are those used by a variety of researchers and protocols (Plafkin et al. 1989, Barbour et al. 1992, Hayslip 1993, Resh et al. 1995, Fore and Karr 1996).

4.7 SALMONID SPAWNING

59, 61,76, 86, 90, 91, 98, 106 Disagrees with DEQ definition of full support for salmonid spawning (two fish).

We concur that commentators have correctly identified an area of bioassessment that is very difficult to conclusively answer, and has a high degree of uncertainty. We have carefully considered the comments, and in response to comments, we have reconsidered our assessment approach for salmonid spawning, revised it, and have re-assessed streams to incorporate these changes.

There are two major reasons why support of salmonid spawning is a difficult assessment to make:

1) The distinction between water quality management to support fisheries and fisheries population management is a fine one, and one that was lost upon some commentators. Many of the factors that affect salmonid populations are the purview of the Idaho Department of Fish and Game's fishery management programs. These include setting harvest targets, whether or not indigenous species require protective regulations, and whether fish populations should be natural or artificially increased by stocking to provide the public more recreational fishing opportunities. Salmon and steelhead populations are limited by factors far from Idaho. Water quality conditions, e.g. excess siltation or nutrients from polluted runoff, unnaturally high temperatures, or other factors, must be adequate to support salmonid fisheries. However, there are many factors, only some of which were listed above, that can limit or prevent occurrence of salmonid fisheries despite satisfactory water quality conditions. A corollary of this situation is that techniques used by fisheries managers to assess the strength of a fishery would be <u>inappropriate</u> to use for determining whether water quality, only one of many factors affecting fish populations, is sufficient to support salmonid spawning. These techniques include population estimates (e.g. number of fish per mile, the density of fish, catch rates) to determine whether habitats are fully seeded and therefore are meeting optimal or sustainable yield goals for exploited fish populations.

2) Classifying streams on a wide scale necessitates a rapid bioassessment approach. Data results from rapid bioassessment have limitations. Grossaman et al. (1990) note that the high variability in fish assemblages, due to the transitory nature of fish, sampling and timing issues, fishing pressure and introductions, may make it difficult to detect the effects of anthropomorphic disturbances. Our approach is to use the presence of different age classes of a salmonid species as evidence that salmonid reproduction is occurring, and thus the water quality is most likely satisfactory for

salmonid spawning. This approach was carefully considered by DEQ biologists, avoids over-extending our data, and is reasonable.

Most of the commentators made theoretical criticisms of our approach which allowed biologists to conclude that salmonid spawning is supported if at least one of each fish of different age classes was captured. The argument was that if only two fish lived in a stream, and we caught them both, we could conclude that salmonid spawning was supported, when in fact fish populations were severely impaired. Some commentators suggested that increasing the number of age classes necessary to conclude salmonid spawning was supported from 2 to 3, and/or juvenile fish should be present.

We found that with real as opposed to hypothetical data, this concern did not often occur. Further, we too had originally considered using 3 age classes including juvenile fish as our guideline for concluding full support of salmonid spawning in the 1996 WBAG. However, DEQ biologists identified situations where that guideline could not be met due to survey limitations. These limitations include:

a) Migration and mobility of salmonid fishes. All salmonid fishes are migratory to some extent. A common life history strategy is that adult fish move upstream into smaller streams during the heat of summer, or to spawn. After spawning, or as temperatures cool, the adult fish move back downstream to larger waters. Fry or juvenile fish also partition their habitats (Bjornn and Reiser 1991). A consequence of these behaviors is that at any given time, the number of age classes in a given stream may be limited because the fish have moved out.

b) Electrofishing selectivity. Electrofishing is the technique most commonly used to capture fish in streams. Fish are briefly stunned by an electric current, netted, measured, identified, and then either released unharmed or preserved for validation and archiving. However, several studies have shown that larger fish may be disproportionally captured because of differences between the central nervous systems of adult and juvenile fish, and because very small fish are difficult to net (Kolz et al. 1995 and Neilson and Johnson 1983).

Because of these factors, our biologists were concerned that if three age classes including juveniles were captured we could accurately conclude that salmonid spawning was supported, the converse was not true. That is, if we failed to catch three age classes, we could erroneously conclude that salmonid spawning was not supported, when in fact the fish might have simply moved out or else we just missed catching the smallest fish. Thus we decided that a guideline of two age classes was less likely to result in our erroneously concluding that salmonid spawning was not supported when in fact it was.

Most commentators were concerned about the opposite type of error, that we would conclude that salmonid spawning was supported, when in fact it was not. In the majority of our assessments, this concern was unfounded because our two age class guideline was exceeded - three or more age classes were commonly encountered. However, we revised our guidelines to further address this concern, while staying within the constraints of a wide-scale, rapid bioassessment approach.

In sum, our revision is as follows (See Figure 4.7.):

a) if 3 or more age classes, including juveniles (juveniles ≤100mm), of a salmonid species were present in a surveyed stream reach, then we would consider that to be conclusive evidence that salmonid spawning is a supported use, regardless of other factors.

b) if only two age classes were present, then we would consider that to be inconclusive evidence whether salmonid spawning was supported, and assessors would next consider whether the stream's habitat attributes were sufficient to likely support salmonid populations (i.e. even though we didn't catch all age classes the days we fished, the stream conditions are likely adequate to support salmonids). Otherwise, the stream would not be considered to support salmonid spawning.

c) if less than two age classes were captured, the stream would be not be considered to support salmonid spawning.

A preliminary analysis of fish habitat relationships in 159 stream sites found that 3 or more age classes of a salmonid species were seldom observed in sites that had a habitat condition index score of less than 73. This score was used as the provisional threshold in step (b) above (Idaho Division of Environmental Quality 1998).

In the opinion of Bauer and Ralph (1998), habitat assessment/measurement most commonly exercised today, relates to salmonid fish. The factors or characteristics most frequently measured relate to either salmonid spawning or rearing requirements, for instance, size and composition of bottom substrates, in-stream and above stream cover, quantity and quality of pools and riffles. Using habitat as a factor/weight in determining salmonid spawning status is consistent with how habitat is used in determining cold water biota.

98, 106 The Water Body Assessment fails to consider habitat in making salmonid spawning status calls.

Idaho DEQ believes salmonid age class structure is a more direct measure of salmonid spawning status. DEQ suggests that habitat is more appropriate in the subbasin

assessment. However, DEQ has used HI in determining salmonid spawning support status. See above.

90 **Idaho does not consider redd counts.**

Redds are a sign of returning adults, and spawning attempts. The presence of young of the year/juveniles goes beyond the presence of redd counts in that it accounts for fertilization, incubation, emergence and rearing.

90 **Idaho does not consider hatchery fish stocking interference.**

Concur with comment.

90 **Idaho does not consider diversions in salmonid spawning support determinations.**

See response to question #1 of the fish assemblage questions of the RIBI where physical barriers and harvest are taken into consideration.

90 **Idaho places emphasis on rainbow and brook trout in salmonid spawning status determinations.**

The determination for salmonid spawning status is made for species with sufficient data to determine age class structure. Determination considers species present which meet data requirements to gauge age class structure. No emphasis is placed on any one particular salmonid species.

90, 59 **Salmonid spawning does not distinguish wild salmonids.**

Differentiation between hatchery and wild fish is not a water quality issue, but a fish management issue. Inclusion of juveniles and use of length frequency distribution in salmonid spawning status assessment is normally sufficient to account for stocking. DEQ is responsible for ensuring water quality sufficient to support beneficial uses, in this case salmonid spawning. In this context, water quality sufficient to support reproduction of salmonids. Salmonids include a number of different species, for instance Rainbow, Cutthroat, Mountain Whitefish, Chinook, Brown and Brook Trout. These may or may not be wild or native. The question of wild and native are management questions beyond the Clean Water Act goal of "swimmable and fishable".

4.8 FISH

59 **Single pass survey is not sufficient for determining presence/absence of macroinvertebrates or fish.**

Single pass level of effort yielding specimens in-hand combined with vouchering has provided sufficient information to document aquatic life type (i.e. existing cold or warm uses) and salmonid age class structure (Nielsen and Johnson 1983). Others have found single pass electrofishing adequate to characterize existing fish community for purposes of bioassessment (Bauer and Burton 1993, Klemm et al. 1993).

90, 98, 106, 117 **EPA states Reconnaissance Index of Biotic Integrity is unacceptable; need quantitative methodology.**

Reconnaissance Index of Biotic Integrity was developed as a tool/ "tie breaker" for assisting beneficial use support status determinations based on qualitative data, not metric calculations. DEQ is developing an Index of Biotic Integrity. This kind of questionnaire is supported in the original RBPs by Plafkin et al. (1989). However, for similar reasons concerning qualitative data, DEQ does not consider the questionnaire rigorous or robust enough to base an impaired call on, similar to using qualitative data noted above. Using specimens in hand and running the data through the questionnaire are enough to judge full support. The same is not true for the converse of finding no fish. The probability of finding many fish are lower, while the probability of finding no fish for the reasons noted above are greater, hence the lack of an impaired call using RIBI.

98, 106 **Reconnaissance Index of Biotic Integrity can only conclude "needs verification" or "not impaired," and cannot conclude "impaired."**

Qualitative sampling is not robust enough to allow an impaired or not full support call due to the potential for a "false negative", that is, obtaining no fish, when, in fact, fish are present, but not caught during the survey. This false negative can be attributed to a number of factors acting independently or in concert, they include but are not limited to; 1) the transitory nature of fish, they move a lot and at times great distances, 2) interactions due to competition, both native and non-native, 3) introductions, 4) life histories (young fish may still be in the gravels at the time of sampling), and 5) fishing pressure.

117 **States DEQ did not sample fish.**

DEQ has collected fish at 513 BURP sites between 1993 and 1996. In addition DEQ used outside fish data from Bureau of Land Management (BLM), U.S. Forest Service (USFS), and others where it meets QA/QC requirements.

4.9 HABITAT

78 **"Surrogate" parameters of pebble counting and shade have been substituted for direct measurements of sediment and temperature.**

As spelled out in the 1995 BURP workplan, canopy cover is a reasonable surrogate for water temperature, since vegetation controls the amount of sunlight reaching a stream (Platts et al. 1987). Studies by Mulvey et al. (1992) and Overton et al. (1993) found canopy cover to be an important variable, it helped explain differences in fish occurrence and abundance in these studies as well as in the Robinson and Minshall (1992, 1994) ecoregion studies. BURP uses a modified Wolman pebble count method which is a direct measure of surface fines (particles <6 mm).

84 **The process for measuring sediment loads needs to be improved.**

BURP does not measure sediment loads. DEQ utilizes a modified Wolman pebble count to quantify surface sediment texture. Load estimates are a part of the TMDLs.

90 **BURP does not adequately include type A channels.**

BURP sites were selected to be representative of stream reaches in order to apply conclusions from site data to the entire stream. Over 330 BURP sites were on "A" type channels or 10% of all BURP sites assessed for the 1998 303(d) list.

117 **DEQ dropped Habitat Index due to inadequate sampler training, and completely botched measuring and sampling habitat.**

During the BURP crew auditing process, DEQ became concerned with the repeatability of many of the habitat parameters in the protocol. Consequently, DEQ chose to use habitat data to help explain the biological data. In developing the list, biology takes precedence over habitat. Only after considering biological data and getting an "NV" determination, does the process proceed to habitat data to make the final status call. After reviewing hundreds of data sets, DEQ concluded that beneficial use status calls are more accurate, when based on direct measures of biological communities (the beneficial uses themselves) than the indirect habitat indicators.

In checking with five other states (Montana, Wyoming, Ohio, Florida and Maine) DEQ found none of these states to have criteria specifically for habitat, as they do for biology (fish, macroinvertebrates or algae). Three states, Ohio, Florida and Maine, use their habitat information/assessments in a post-hoc fashion, that is, they use the habitat data to interpret/explain what is happening to the biota. The other two states, Montana and Wyoming, use habitat in conjunction with biology in determining whether or not a water body should be listed on the 303(d) list. None of the five

states would list a water body strictly on the basis of habitat alone. Hence, Idaho's use of HI is very consistant with these other states.

90 **Delisting based on Habitat Index is arbitrary for the Bruneau River. Comment is specific to Bruneau River.**

DEQ is criticized for relying too heavily on macroinvertebrates and not giving habitat more weight in the assessment process. Objections were also made for using habitat to make a status call. DEQ feels these comments are too arbitrary, can't ask for habitat to be used then disagree with a conclusion when it is used. Further, if habitat was good enough to get some of these streams listed it should be good enough to get some de-listed. See Boise Regional Office site specific response to comments for more detail.

98, 106 **Does not make use of measured habitat components.**

Not all measurements are utilized at this time. Habitat data (both quantitative and qualitative) are used as *"a posteriori"* analysis. Six out of 11 factors in the habitat assessment are measured.

4.10 SITE SELECTION

76, 78, 84, 90, 91, 98, 106

One or two sample sites sampled at only one point in time is inadequate to determine condition of several miles of stream throughout the year.

The 1995 and 1996 BURP work plan describes the method used for site selection (IDEQ 1995, IDEQ 1996). DEQ believes that it is unnecessary to indicate the rationale for each individual site provided the BURP sites selected followed the method described in the work plan. The BURP Work plan indicates that the following factors should be considered when selecting BURP sites: Ecoregion changes; stream channel type changes; valley type changes; stream order changes; and land use changes. The BURP work plans also encouraged the use of recommendations from resource agencies, aerial photos, and other water quality data when available. The overriding concern for site selection was that the site was representative of the stream reach, however, with over 100,000 miles of stream in Idaho, some streams may not have a BURP site on all significant variations. As BURP continues, DEQ would expect that the streams will have a more complete coverage of all significant stream variations.

Since the sites were selected to be representative of the stream reach, DEQ believes that in most instances it is appropriate to apply the results from a single BURP site to the entire reach for which it was representative. It is important to point out the concept of a point (site) on a water body being reflective (in terms of water quality) of all the activities taking place above it as well as the water draining from the watershed. On some relatively short streams a single site may have been used to determine support status for the entire stream. Most of these streams were less than five miles in length and BURPed in the lower 1/3 of the watershed. Because the lower 1/3 of the watershed is responding to activities upstream from the site, DEQ believes that a single site is adequate for the 1998 303(d) list. As DEQ continues to BURP streams, additional sites will be placed on these streams and future assessments will incorporate these additional sites.

Some comments suggested that the stream assessments should be split into smaller stream lengths. DEQ is concerned with fragmenting a water body into several sections. Streams function as ecosystems, fragmentation of the stream into several small sections would ignore the ecosystem aspect of the stream. In some instances, however, it was appropriate to split streams into smaller sections. DEQ chose to break streams into smaller sections when there was significant watershed changes (i.e. land use changes, changes in valley types, etc.). When these watershed changes did occur DEQ used hydrological characteristics to determine the exact location of the new boundary. This is why most of the splitting of streams was done at major tributary

confluences rather than arbitrarily splitting streams into several segments. If streams were less than ~ five miles long they were not typically split. If two or more BURP sites were on these short stream segments the status call was based on the BURP site that had the lowest water quality as indicated by the assessment process.

4.11 WATER QUALITY/WATER QUANTITY

59 Flow and timing of flow should be included in FS of beneficial use calls.

Where and when beneficial uses apply is a Water Quality Standards issue. Beneficial uses are designated through the Rulemaking Process. DEQ realizes that results from bioassessment surveys may be different for intermittent and ephemeral streams. One cannot expect macroinvertebrates communities in intermittent streams to be similar to perennial streams due to the time it takes to recolonize a stream.

76 Water quantity at some times on every stream should be considered a water quality issue. Henry's Fork Watershed Council (HFWC) understands constraints based on state law but believes that through collaborative efforts water quantity issues can be resolved. Based on this believes that water quantity should be addressed in DEQ's assessment efforts.

Several watershed advisory groups and watershed councils have taken upon themselves to attempt to deal with flow issues within their sub-basin. DEQ agrees that water quality/quantity issue can be best handle through a collaborative process.

86 Flow needs to be dealt with in a different process than the 303(d) program.

DEQ agrees, however, streams that were placed on the 1994 303(d) list for flow will remain on the list unless data shows that they are fully supporting their beneficial uses. If the water bodies are impaired the sub-basin assessment will determine if the pollutants listed on the 303(d) list are correct. If it appears that flow is the only parameter affecting the beneficial uses, DEQ will propose delisting the stream at that time.

4.12 OUTSIDE DATA

59, 61, 76
90, 98, 102,
106 **DEQ did not use readily available data.**

DEQ made an honest attempt to locate and analyze all relevant information, however, DEQ acknowledges that it likely did not receive all pertinent data. Furthermore, some of the data DEQ received was not in a format that allowed a timely or comprehensive analysis. Additionally, DEQ recognizes that data will become more readily available through time and as DEQ resources allow, this data will be incorporated into future listing processes. DEQ recognizes that BLM, USFS and other stream inventory data sources such as PFC, R1/R4, RAIDS can provide some information regarding water quality, however, such data does not directly correlate to an exceedance of state Water Quality Standards, additional information is needed to establish that link (see EPA Appendix A, Response to General Comments concerning EPA's 1994 303(d) list for the State of Idaho; also see Chapter 1, Section 1.5 for more detail).

59 **DEQ did not coordinate water quality analysis with other agencies.**

DEQ regional offices held coordination meetings with the various state and federal agencies on an on-going basis. In addition, meetings with the BAGs and WAGs provided further coordination with local stakeholders, concerned parties, and representatives of state and federal agencies. (See administrative record).

61 **DEQ ignored data from other state and federal agencies about streams crossing state lines, boundaries should cross state lines.**

DEQ cannot make regulatory decisions concerning other states' waters.

61 **DEQ used old data.**

EPA's 305(b) guidance recommends a five year time frame for consideration in 305(b) reporting. DEQ applied this to the 303(d) process as a reasonable cut off for data consideration.

78 **Did DEQ consider Potlatch, USFS, and IDL data regarding the 1995-1996 rain on snow event in the Clearwater Basin?**

This data was not considered because it was not available at the time the 1998 assessments were completed. This data will be considered in the next round of assessments.

78 **DEQ has not used 1997 Clearwater National Forest data and applied the Federal bulltrout standard to it.**

See DEQ temperature strategy.

78 **Don't use the WATBAL sediment model output as a de-listing criteria.**

EPA relied on various model results as the basis for adding some streams to the 1994 303(d) list for Idaho (See Table 1.1, where the BOISED sediment model was used for the Boise National Forest, NEZSED for the Nez Perce National Forest and WATBAL for the Clearwater National Forest). DEQ did not use any of these models for purposes of removing waters from the 1996 303(d) list.

90, 106 **Failure to incorporate 1997 BURP data.**

1997 data was not completely analyzed because analytical and taxonomic results had not been reported to DEQ at the time of the assessments. Any data not assessed will be incorporated into the 2000 303(d) process.

90 **DEQ failed to consider readily available (IDFG presence/absence data) data on historic/present range of INDIGENOUS fish and failed to consider migration corridors in context of CWA.**

DEQ has this data base, however, DEQ does not consider presence/absence data to be adequate for water body assessment purposes. This data base does not provide any qualifying-documentation on collection information, age of data, age/length frequency data, etc. BURP has been designed to look at existing and designated beneficial uses. Migration corridors are not specifically addressed in the state's standards, however, this is taken into account in RIBI question #1.

90 **DEQ didn't incorporate 1997 temperature data.**

DEQ did incorporate 1997 DEQ temperature data in the initial assessment. It was some of this very data that lead to basic water quality standard questions raised in the Temperature Strategy paper (See Chapter 3 this document).

90, 98 **Failure to provide full range of supporting data.**

Data was too voluminous to routinely supply with the list. DEQ has responded to specific data requests in the order they were received and as resources allowed. Summary reports were made and provided to those expressing an interest.

91, 98 **DEQ was too restrictive in accepting water quality information from other sources.**

Given the importance and long-range ramifications of being on a 303(d) list the state chose to specify data requirements for the 1998 303(d) process. These data requirements were spelled out in the November 1997 public notice. DEQ notices that EPA also supports a rigorous data requirement, when they say in their response to Idaho's draft 1998 303(d) list on page 2, "-for each water body, quantitative macroinvertebrate data and either quantitative fish or habitat must be available to make listing decisions."

102 **DEQ has disregarded USFS data in regard to meeting temperature requirements for cold water biota and bull trout.**

(See temperature strategy.)

102 **The DEQ process is so heavily politicized as to guarantee the rejection of citizen submittals.**

DEQ did consider information from citizens and has, in this document, responded to comments on the list.

90, 98, 106 **Uses too much subjective data.**

DEQ has modified both the BURP and WBAG processes to remove as much subjectivity as possible. This has been accomplished through the collection or measurement of water quality parameters in the field and an objective non-arbitrary assessment method. DEQ acknowledges a small portion of the BURP data collected or evaluated is not entirely quantitative or objective in nature, but would argue that it is more so than information that has been relied upon in the past to put water bodies on the 303(d) list. A majority of the physical water quality data obtained at a BURP site is collected in an objective quantitative manner. (See BURP Work Plans 1993-1996). One of the few places where subjectivity enters is in the Habitat Assessment Summary Sheet. Here 11 water quality characteristics are evaluated and scored. Of the 11, five rely on actual measured field data, while the remaining six are subjective field calls made according to a published method. The macroinvertebrate and algae samples are collected in a quantitative fashion, while fish data is obtained using both quantitative and qualitative methods, it is by no means subjective.

The evaluation and interpretation of this data as well as data from outside DEQ, is done via WBAG, which DEQ has strived to make as non-arbitrary and objective as possible. To be considered, data must meet minimum QA/QC requirements. This

applies to DEQ as well as outside data. All the data is evaluated according to a pre-set sequence. In this way little if any subjectivity can influence the outcome. One of the few places where subjectivity in the form of "best professional judgment" is used is in the interpretation of water quality criteria exceedances. Here DEQ uses the concept of "major and minor" in determining if it is indeed having a negative water quality impact on the beneficial use the criteria was intended to protect. This type of approach has also been called the weight of evidence approach to evaluating criteria exceedances (Yoder and Rankin 1998). Here, the professional makes a case by case determination of the real impact the criteria exceedance is having on the beneficial use. Considered in this evaluation would be duration, frequency and magnitude of the exceedance as well as the condition or status of beneficial uses existing in said water body.

4.13 CRITERIA/VIOLATION/MAJOR/MINOR

61	**Instantaneous reading inadequate for water quality assessment.**
61	**Did not refer to Water quality standard numeric criteria on temp, Coliform and other standards.**
78	**States DEQ has instantaneous data showing stream temps over 13 degrees C for stream segments proposed for de-listing (Deadman Creek).**
78	**DEQ has not used 1997 Clearwater National Forest data and applied the Federal bulltrout standard to it.**
86	**DEQ applied the State's bull trout temperature criteria when adequate data was not available for applying the federal criteria.**
86	**Federal criteria for bull trout was known by DEQ in time to correct sampling strategies in streams with bull trout. Federal criteria should be utilized by the State.**
86	**DEQ needs to identify which streams should be assessed using the federal criteria and adjust the changes to the list accordingly.**
90	**Waters designated for salmonid spawning are proposed for delisting even though temp data >13 degrees C.**
90, 106	**Waters designated for CWB are proposed for delisting even though temp data >13 degrees C.**
90	**DEQ used Best Professional Judgment (BPJ) to determine if exceedances were major or minor.**
90	**Definition of full support of a BU.**
98, 106	**Professional judgement should not be basis for determining "major/minor" criteria exceedances.**

Enough questions were raised from comment letters regarding quality and/or reliability of temperature data and inadequacies of Idaho's temperature standards that DEQ will be looking at temperature issues in the coming year. Rather than wholesale listing of streams for temperature exceedances without knowing if those exceedances are real or not, DEQ has adopted a temperature strategy for dealing with these streams noted in assumptions, Section 1.6.

"Major" and "Minor" Criteria violations other than temperature were evaluated on a case by case basis. See page 10 of stream assessment process paper for more detail of weight of evidence approach to criteria exceedances.

Water temperature exceedances were by far the most frequent situations encountered in the 1998 303(d) process. In determining if a water temperature exceedance was major or minor, DEQ applied a 3 degree rule for cold water biota and salmonid spawning (see Figure 4.7).

4.14 REFERENCE

78, 90
98, 106 **No use of reference streams in assessment of BURP data.**

DEQ relied on a method of determining reference conditions wherein a empirical "reference stream" is constructed based on real data. DEQ did not have the confidence to make *a priori* reference calls that would set the benchmarks for all data and beneficial use support determinations. DEQ was confident that it had sampled a range or gradient of conditions through BURP to construct an empirical model for reference (Hughes 1995). In other words, DEQ had sampled enough water bodies to be sure a gradient of stream conditions from impaired to not impaired had been encountered.

DEQ relied upon this body of data to construct the MBI and habitat ecoregional "reference conditions" which act as benchmarks for beneficial use support determinations. For the MBI reference, DEQ selected the highest ecoregion metric score for each of the seven individual metrics (See page 37, Attachment 1.1). It should be noted that no one water body had all seven high metrics, they came from a number of different streams. In adopting this method, DEQ actually constructed a very "tough" stream for the reference, for some of the metrics were positive and others negative, that is, some indicate better water quality and others reduced water quality. This method constructs a very conservative reference condition, one which DEQ feels confident in its ability to separate impaired from non-impaired water quality conditions. For the habitat reference, DEQ relied upon an accepted trisection data methodology (Fausch et al. 1986, Karr et al. 1986). This trisection method sets the benchmark, whereby habitat scores are determined to be impaired, not impaired or needs verification (See page 37, Attachment 1.1).

4.15 PEER REVIEW

78 **Any determination of beneficial use ATTAINABILITY should be subject to a outside review for consensus.**

It is the State's (DEQ's) responsibility under the federal Clean Water Act to determine Beneficial Use Attainability. When DEQ proposes a Use Attainability Analysis (UAA) for a water body it will have public comment as part of the APA process in changing beneficial use.

86 **Supplements to WBAG internally drafted by DEQ without providing scientific justification for the changes, and without external scientific review.**

The WBAG supplements were provided to the public with the draft list, providing the public with an opportunity to comment.

90 **States WBAG received no external peer review.**

Yes, the Water Body Assessment Guidance (WBAG) did receive external review. DEQ formed a Technical Review Committee (TRC) for the purpose of providing review and comments to a variety of projects, including the WBAG in early 1996. The committee was made up of industrial, environmental, and agency scientists and representatives. Comments received from the TRC were used in revisions to the WBAG. The WBAG was described at the Seventh Annual Biological Assessment Workgroup meeting in Astoria, Oregon, to a large group of Pacific Northwest aquatic scientists in 1996. Numerous copies of the draft and final document were printed and circulated for comment and information. A presentation of WBAG using real data was made to each BAG in 1996. Questions were addressed and answered at each of these presentations (see Attachment 1.3).

Further, WBAG was incorporated into Idaho's water quality standards at IDAPA 16.01.02.053. As such it went through rule making, wherein the public had opportunity to review and comment as well as during the Health and Welfare Board review process and finally passage by the legislature.

4.16 OTHER

61 **DEQ's failure will impair federal agencies being able to do their job and wild and scenic rivers will not be protected.**

Land management decisions resulting from delisting or listing water bodies is not considered in the process of making status call determinations.

86 **Supports position that the state should redraft the 1998 303(d) list to address listed Nez Perce Tribe (NPT) issues.**

DEQ does not plan to redraft the draft 1998 303(d) list at this late date. The list is due every two years to EPA and DEQ will consider such comments for the list due in 2000.

86, 98 **Listing or de-listing of tribal water bodies are within the jurisdiction of the Nez Perce Tribe and the United States. Believes Idaho's draft 303(d) list is fundamentally flawed because it asserts that the State of Idaho has jurisdiction with the Nez Perce Reservation.**

EPA has noted that Idaho has proposed delisting waters located wholly or partially on tribal reservations. EPA has stated that the listing of such waters by EPA on the 1994 list remains in effect and that the development of TMDLs for these waters is still expected until such time as they are removed from the list by EPA.

DEQ agrees that some of the waters on the 1994 and 1996 lists, and some waters that remain on the 1998 list, may be wholly or in part within Indian reservations and/or on lands held by tribal members subject to a restriction on alienation or held by the United States in trust for Indian tribes. DEQ's actions with respect to the 303(d) list and such waters does not constitute a determination, waiver, admission or statement on the part of the state of Idaho with respect to jurisdiction over such waters.

DEQ believes, based upon the data it has collected, that certain of these waters are not impaired, should not be on the 303(d) list and TMDLs should, therefore, not be developed. EPA has provided no information to contradict DEQ's conclusions. EPA asserts that the authority to remove such a water body from the list rests with EPA and not the state of Idaho. Since this is EPA's position, DEQ suggests EPA should review the data regarding such waters and make a decision on whether they should remain on the list. Until it is established DEQ's conclusions regarding impairment are inappropriate, DEQ does not intend to develop TMDLs for the waters it has determined are not impaired.

86 **DEQ has demonstrated a political unwillingness to scientifically address water quality problems in the state.**

Not a specific listing issue.

86 **A time line scenario for additional analysis and ultimate determination needs to be presented to the Public.**

Commentor's request for additional analysis will be/has been conducted. See Idaho's TMDL schedule.

90 **Questions about DEQ's QA/QC have not been addressed.**

Specific QA/QC concerns not listed in this question.

91 **DEQ's definition of "headwaters" being a single channel and not including tributaries is flawed.**

Specifying the source is not required in the regulations (or CWA) for listing criteria. DEQ submits that source identification is more appropriate in the subbasin assessment.

91 **DEQ's objective was to reduce the number of listed streams and the process was geared toward that end.**

DEQ's objective was to report the status of the beneficial uses in the streams that were monitored through BURP and outside data. The water body assessment process was intended to be an objective analysis tool and was not geared towards adding or reducing water bodies on the 303(d) list.

4.17 REGIONAL SPECIFIC COMMENTS AND RESPONSES

The following indicate the decision responses:

1. Will remain on 1998 303(d) list.
2. Will not be added to 1998 303(d) list.
3. Will be de-listed from 1998 303(d) list.
4. Will be added to 1998 303(d) list.
5. Will remain on 1998 303(d) list with new boundaries.
6. No change in pollutants.

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010301		Milo Creek	Headwaters to S.F. CdA River	1) & 2) The Lands Council (p. 2, #3) and ICL/GYC (p. 23, #5), data are available indicating lead concentrations exceed criteria. Should be listed.	1) & 2) Concur with comment.	#4
17010215	3415	East River	North Fk East River to Priest River	EPA (p. 17, # 3,4,5) conclusions need to be reevaluated.	No change, see Assessment Process/IDEQ Policy section in general response. (p.1-7)	#6
17010215	3427	Two Mouth Creek	Headwaters to Priest Lake	1) IDL (p. 1, #1) remove from list because temp. Problems are being addressed. 2) IDL (p. 2, #3) only pollutants causing listing should be shown on list.	1) WQL problems must be addressed by a TMDL. 2) Concur with comment.	#1
17010215		Lion Creek	Headwaters to Priest Lake	IDL (p. 1, #4) should not be listed due to temperature.	DEQ will place on temperature list.	#2
17010215		Soldier Creek	Headwaters to Priest Lake	IDL, see Lion Creek (WQLSEG # 5615) comment #1.	See response #1 for Lion Creek WQLSEG #5615.	#2
17010301	3500	Prichard Creek	Barton Gulch to CdA River	EPA (p. 15, #5) Use of WBSTAT and STSTAT not clear.	See Assessment Process/IDEQ Policy section in general response (p.1-7)	#1
17010302	3513	South Fork Coeur d'Alene River	Big Creek to Coeur d'Alene River	Hecla (p. 3, #5) segments should be on 319 list, instead of 303(d) list.	NPS impaired water bodies are appropriate for 303(d) list.	#1
17010302	3525	Canyon Creek	Gorge Gulch to South Fk CdA River	1) EPA (P. 15, #5) use of WBSTAT and STSTAT not clear. 2) EPA (p. 17, #3, 4,5) Conclusions need to be reevaluated.	See Assessment Process/IDEQ Policy section in general response (p. 1-7)	#1
17010303	7541	Marie Creek	Searchlight Creek to Wolf Lodge Creek	ICL/GYC (p. 15, #2) not on 303(d) list.	Listed on 303(d) list. See Assessment Process/IDEQ Policy section in general response (p. 1-7)	#1
17010304	3596	Gold Center Creek	Windy Creek to Middle Fk St. Maries River	1) EPA (p. 16, #3)Use of WBSTAT and STSTAT not clear. 2) EPA (p. 16, #3) Discrepancies between MBI/HI and criteria exceedances.	See Assessment Process/IDEQ Policy section in general response (p. 1-7)	#1

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010304	3622	Gold Creek	East Fk Gold Creek to St. Joe River	1) EPA (p. 16, #1) Use of WBSTAT and STSTAT not clear. 2) EPA (p. 16 #3) Discrepancies between MBI/HI and criteria exceedances.	See Assessment Process/IDEQ Policy section in general response (p. 1-7)	#1
17010305	3552	Spokane River	CdA Lake to Huetter	City of CdA (p. 1, #2) known metals should be listed; (p. 1, #3) temperature listing should be seasonal; (p. 1, #4) beneficial use should be changed to warm water biota and delisted for temperature; (p. 3, #4) delist for Pb and Cd	Concur with comment. Specific metals are Cd, Pb, Zn; concur with comment, temperature listing is seasonal; DEQ will investigate WWB status; DEQ will continue to evaluate metals data.	#1, will not delist specific metals.
17010304		WF Emerald Creek		Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that Beneficial Uses were not being fully supported, DEQ will not list this water body.	#2
17010304		Keeler Creek		Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that Beneficial Uses were not being fully supported, DEQ will not list this water body.	#2
17010304	3595	Merry Creek		Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that Beneficial Uses were not being fully supported, DEQ will not list this water body.	#3

*Listed: Water bodies that have been determined or found to be water quality limited and are listed on Idaho's 303(d) list.

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010213	3473	Lightning Creek	Quartz Creek to Clark Fork	1) American Wildlands (p.3,#1), common local opinion that stream is ruined; (p.8,#2), USFS report indicates basin is degraded. Should not be de-listed. 2) Rock Creek Alliance (p.1,#5), out of equilibrium, degraded fish habitat, low channel stability, excessive bedload, cobble embeddedness, braiding etc. Should not be de-listed. 3) ICL/GYC (p.11,#3), MBI score is not sufficient justification to move NFS or NV to FS. Should not be de-listed. 4) ICL/GYC, see Mokins Creek (WQLSEG3557) comment number 1.	1 & 2) Beneficial use support status determinations are made using current data that can be used in the Water body Assessment (WBA) process while local public opinion and conclusions drawn from documents such as Environmental Assessments and Environmental Impact Statements may provide insight into habitat, water quality, fisheries, and general watershed conditions, DEQ has chosen to limit status calls to the WBA process based on data. 3) See MBI/Macroinvertebrate response in general responses. (p.1-7) 4) See Assessment Process/IDEQ Policy responses (p. 1-7).	#3
17010213		South Fork Clark Fork	Headwaters to Clark Fork	ICL/GYC (p.13,#1), If it was not assessed it should not be de-listed.	The S.F. Clark Fork is part of a braided system at the mouth of the Clark Fork River. It was inadvertently put on the list. It will be considered part of the Clark Fork River (Montana line to Pend Oreille Lake) which is on the 303(d) list.	#2
17010214	3437	Brickel Creek	Washington Line to Spirit Lake	John E. Bentley (p. 1&2), Stream has history of sediment loading. Should not be de-listed.	See responses # 1&2 for Lightning Creek WQLSEG # 3473.	#3

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED*						
HUC	**WQLSEG**	**WATER BODY**	**BOUNDARY**	**PUBLIC COMMENT**	**RESPONSE**	**DECISION**
17010214	3449	Pack River	HWY 95 to Pend Oreille Lake	1) American Wildlands (p.3,#3), SSOC status reflects past problems. Should not be de-listed. 2) ICL/GYC, see Lightning Creek (WQLSEG 3473) comment # 3. 3) ICL\GYC, see Mokins Creek (WQLSEG3557) comment #1.	1) Previous SSOC status was not considered in making support status calls. The water body Assessment (WBA) process is based on current data and conditions and is the primary process used by DEQ to list or delist water bodies. 2) See MBI/Macroinvertebrate response in general responses (p. 10). 3) See Assessment Process/IDEQ Policy response in general responses (p. 1-7).	#3
17010214	3455	Grouse Creek	Headwaters to Pack River	1) The Lands Council (p.9, #3), "In order for a water body to be classified as not impaired, all of its beneficial uses must be fully supported"---SS was not assessed but water body was de-listed. 2) American Wildlands (p.4,#2), description of sediment loads and temperature problems, bull trout watershed. Should not be de-listed. 3) Rock Creek Alliance, see Lightning Creek (WQLSEG 3473) comment #2 . 4) ICL/GYC, see Lighting Creek (WQLSEG 3473)comment #3.	1) In the WBA process, when no salmonid spawning data are available, the water body is classified as fully supporting beneficial uses. 2 & 3) See responses # 1&2 for Lightning Creek WQL SEG #3473. 4) See MBI/Macroinvertegrate response in general response (p. 10).	#3

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010214	3462	Trestle Creek	Headwaters to Pend Oreille Lake	1) See Grouse Creek (WQLSEG 3455) comment number 1. 2) American Wildlands (p.4,#3), part of key bull trout watershed, description of logging problems, previous SSOC designation, USFS report describes sediment pollution and habitat destruction. Should not be de-listed. 3) John E. Bentley (p.1&2), Severe bedload activity due to past logging. Should not be de-listed.	1) See response #1 for Grouse Creek WQLSEG # 3455 2) & 3) See response # 1&2 for Lightning Creek WQLSEG 3473	#3
17010214	3468	Gold Creek	Headwaters to Pend Oreille Lake	1) American Wildlands (p.5,#3-4), needs protection for cutthroat trout, polluted with sediment and bedload according to USFS report. Should not be de-listed. 2) ICL/GYC, see Lighting Creek (WQLSEG 3473) comment #3.	1) See responses # 1&2 for Lightning Creek WQLSEG #3473. 2) See MBI/Macroinvertebrate response in general responses (p.10).	#3
17010215	3419	Lamb Creek	Washington line to Priest Lake	1) American Wildlands (p.7,#1),previous reports indicate high sediment loads. Should not be de-listed.	See responses #1&2 for Lightning Creek WQLSEG #3473	#3
17010215	3428	Tango Creek	Headwaters to Priest Lake	1) See Grouse Creek (WQLSEG 3455) comment #1. 2) American Wildlands (p.7,#2-3), may not meet bull trout temperature standard, description of sediment problems from roads. Should not be de-listed.	1) See response #1 for Grouse Creek WQLSEG #3455 2) See Assessment Process/IDEQ Policy response in general responses (p. 1-7).	#3

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010215	3432	Trapper Creek	Headwaters to Upper Priest Lake	1) See Grouse Creek (WQLSEG 3455) comment #1. 2) American Wildlands (p.6,#1-4), has cutthroat trout and bull trout, may not meet bull trout temperature standards, previous SSOC designation, description of habitat problems. Should not be de-listed.	1) See response # 1 for Grouse Creek WQLSEG 3455 2) See Assessment Process/IDEQ Policy response in general responses (p. 1-7) and responses # 1&2 for Lightning Creek WQLSEG 3473	#3
17010301	3486	Bumblebee Creek	Headwaters to N Fk CdA River	Kootenai Env. Alliance (6/5/98 p. 1, #2), USFS document indicates degradation of stream or watershed and\or excessive management activity. Should not be de-listed.	See responses #1&2 for Lightning Creek WQLSEG #3473	#3
17010301	3488	Laverne Creek	Headwaters to N Fk CdA River	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1&2 for Lightning Creek WQLSEG #3473	#3
17010301	3489	Leiberg Creek	Headwaters to N Fk CdA River	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1&2 for Lightning Creek WQLSEG #3473	#3
17010301	3490	Skookum Creek	Headwaters to N Fk CdA River	1) See Bumblebee Creek (WQLSEG 3486) comment #1. 2) See Trestle Creek (WQLSEG 3462) comment #3.	1 & 2) See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	3501	East Fork Eagle Creek	Headwaters to Prichard Creek	1) See Bumblebee Creek (WQLSEG 3486) comment #1. 2) John E. Bentley (p. 2, #2), Contaminated with heavy metals due to past mining. Should not be de-listed.	1 & 2) See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	3505	Downey Creek	Headwaters to CdA River	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	3507	Flat Creek	Headwaters to CdA River	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	3510	Trail Creek	Headwaters to Tepee Creek	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010301	5007	Barney Creek	Headwaters to N Fk CdA River	1) See Bumblebee Creek (WQLSEG 3486) comment #1. 2) See Trestle Creek (WQLSEG 3462) comment #3.	1. & 2) See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	5008	Barton Gulch	Headwaters to Granite Gulch	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	7500	Tiger Gulch	Headwaters to Prichard Creek	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	7502	Wesp Gulch	Headwaters to Prichard Creek	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	7503	Ophir Gulch	Headwaters to Prichard Creek	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010301	7505	Idaho Gulch	Headwaters to Prichard Creek	See Bumblebee Creek (WQLSEG 3486) comment #1.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010303	3544	Fernan Creek	Headwaters to Fernan Lake	See Trestle Creek (WQLSEG 3462) comment #3.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010303	3548	Rockford Creek	Headwaters to Coeur d'Alene Lake	John E. Bentley (p. 1&2), Stream has history of sediment loading. Should not be de-listed.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010304	3604	Marble Creek	Hobo Creek to St. Joe River	1) Kootenai Env. Alliance (p.1, #2), Hobo Cornwall EIS indicates fish habitat is generally lacking. 2) See Trestle Creek (WQLSEG 3462) comment #3.	1 & 2) See responses # 1 & 2 for Lightning Creek WQLSEG #3473	#3
17010304	7605	Toles Creek	Headwaters to Marble Creek	Kootenai Env. Alliance (p.1,#3), Lower Marble EA indicates fish habitat is limited.	See responses #1 & 2 for Lightning Creek WQLSEG 3473	#3
17010304	7609	Daveggio Creek	Headwaters to Marble Creek	1) Kootenai Env. Alliance (p.1,#4), Lower Marble EA indicates temperature problems and low fish habitat diversity. 2) See Trestle Creek (WQLSEG 3462) comment #3.	1) See responses 1&2 for Lightning Creek WQLSEG #3473 and Assessment Process/IDEQ Policy in general responses (p. 1-7). 2) See responses 1 & 2 for Lightning Creek WQLSEG #3473	#3

COEUR D'ALENE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17010305	3557	Mokins Creek	Headwaters to Hayden Lake	ICL/GYC (p.14,#4), should not be de-listed for habitat alteration and DEQ should recognize habitat alteration as a listing parameter.	See Assessment Process/IDEQ Policy response in general responses (p. 1-7).	#3

*Delisted: Water bodies formerly on Idaho's 303(d) list that have been found to meet their beneficial uses, are not water quality limited, and are removed from the 303(d) list.

LEWISTON REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060302	3262	O'Hara Creek	Hamby Fork to Selway River	MBI score is good, why is the creek Not Full Support?	DEQ BURP data collected in the lower reach site for O'Hara Creek indicates some beneficial use impairment, and major temperature exceedance.	#1
17060306	3149	Potlatch River	Bear Creek to Clearwater River	1) IDF&G and NRCS data indicate Water Quality limited. 2) Commentor #41 wants it listed.	DEQ BURP data supports the IDFG and NRCS data that the Potlatch River is not fully supporting its beneficial uses.	#1
17060306	3150	Potlatch River	Headwaters to Bear Creek	1) IDF&G and NRCS data indicate water quality limited. 2) Commentor #41wants it listed.	DEQ BURP data supports the IDFG and NRCS data that the Potlatch River is not fully supporting its beneficial uses.	#1
17060306	3156	Cedar Creek	Leopold Creek to Potlatch	MBI score is good, why is the creek Not Full Support?	DEQ BURP data collected in the lower reach site for Cedar Creek indicates some beneficial use impairment, and major temperature exceedance.	#1
17060306	3157	East Fork Potlatch River	Ruby Creek to Potlatch River	MBI score is good, why is the creek Not Full Support?	DEQ BURP data collected in mid and lower reach sites for the East Fork Potlatch River indicates some beneficial use impairment, major temperature exceedance	#1
17060306	3158	Ruby Creek	Unnamed trib 3.4 km upstream to East Fk Potlatch R	Site rational should be changed.	This was a data entry error.	#1
17060306	3159	Moose Creek	Headwaters to Potlatch River	Commentor #41 wants it listed.	DEQ BURP data collected in the mid and lower sites. Moose Creek indicates Moose Creek is not fully supporting its beneficial uses, and major temperature exceedance.	#1
17060306	5216	Yakus Creek	Molly Creek to Lolo Creek	MBI is good, why is the creek Not Full Support?	DEQ BURP data collected in the lower reach site for Yakus Creek indicates some beneficial use impairment, and major temperature exceedance.	#1

LEWISTON REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060306		Cougar Creek	Headwaters to Potlatch River	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Laguana Creek	Headwaters to Feather Creek.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Sheep Creek	Headwaters to Potlatch River.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Pasture Creek	Headwaters to Potlatch River.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Herd Creek	Headwaters to Potlatch River.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Lamb Creek	Headwaters to Potlatch River	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Bobs Creek	Headwaters to EF Potlatch River.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2

LEWISTON REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060306		Purdue Creek	Headwaters to Potlatch River.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2
17060306		Nate Brown Creek	Headwaters to Potlatch River.	Bob Einhaus thinks the stream should be listed.	Without the appropriate data indicating the Idaho Water Quality Standards were not being met or that beneficial uses were not being fully supported, DEQ will not list this water body.	#2

LEWISTON REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060108	3129	Meadow Creek	Headwaters to Palouse River	Al Espinosa recommends it stay on the list	DEQ BURP data collected in the upper reach of Meadow Creek indicates that the beneficial uses are fully supported.	#3
17060108	3130	Strychnine Creek	Headwaters to Palouse River	Al Espinosa recommends it stay on the list	DEQ BURP data collected in the lower and upper reaches of Strychnine Creek indicates that the beneficial uses are fully supported.	#3
17060108	3131	Little Sand Creek	Headwaters to Palouse River	Al Espinosa recommends it stay on the list	DEQ BURP data collected in the upper and lower reaches of Little Sand Creek indicate that the beneficial uses are fully supported.	#3
17060108	3132	Big Sand Creek	Headwaters to Palouse River	Al Espinosa recommends it stay on the list	DEQ BURP data collected in the upper and lower reaches of Big Sand Creek indicates that the beneficial uses are fully supported.	#3
17060108	3133	North Fork Palouse River	Headwaters to Palouse River	Why is MBI missing	Data entry error, MBI is 4.85.	#3
17060108	3135	Paradise Creek	Headwaters to Palouse River (Washington boarder)	MBI impairment is not a rational for de-listing	Data entry error, the de-listing rational is that a tmdl was developed and approved for Paradise Creek in 1997.	#3
17060108	5023	Bonami Creek	Headwaters to Little Sand Creek, Cr	Al Espinosa recommends it stay on the list	DEQ BURP data collected on Bonami Creek show the beneficial uses are not impaired.	#3
17060303	3249	Walton Creek	Headwaters to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected on upper, middle and lower sites on Walton Creek indicates that the beneficial uses are fully supported.	#3
17060303	3255	Crooked Fork	Headwaters to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected on middle and lower sites on Crooked Fork indicates that the beneficial uses are fully supported.	#3
17060303	3256	Brushy Fork	Headwaters to Crooked Fork	Al Espinosa recommends it stay on the list	DEQ BURP data collected on Brushy Fork indicates that the beneficial uses are fully supported.	#3

LEWISTON REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060303	5036	Canyon Creek	Headwaters to Mystery Creek	Al Espinosa recommends it stay on the list	DEQ BURP data collected on this designated segment of Canyon Creek indicates that the beneficial uses are fully supported.	#3
17060303	5037	Canyon Creek	Mystery Creek to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected on this designated segment of Canyon Creek indicates that the beneficial uses are fully supported.	#3
17060303	5057	Deadman Creek	Headwaters to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected in the upper and lower reaches of Deadman Creek indicates that the beneficial uses are fully supported.	#3
17060303	5138	Papoose Creek	Headwaters to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected on Papoose Creek indicates that the beneficial uses are fully supported.	#3
17060303	5139	Parachute Creek	Headwaters to Papoose Creek	Al Espinosa recommends it stay on the list	DEQ BURP data collected on Parachute Creek indicates that the beneficial uses are fully supported.	#3
17060303	5142	Pete King Creek	Headwaters to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected in the upper and lower reaches of Pete King Creek indicate that the beneficial uses are fully supported.	#3
17060303	5167	Shotgun Creek	Headwaters to Crooked Fork	Al Espinosa recommends it stay on the list	DEQ BURP data collected on Shotgun Creek indicates that the beneficial uses are fully supported.	#3
17060303	5188	Squaw Creek	Headwaters to Lochsa River	Al Espinosa recommends it stay on the list	DEQ BURP data collected on Squaw Creek indicates that the beneficial uses are fully supported.	#3
17060304	3281	Clear Creek	Headwaters to M Fk Clearwater River	Do not de-list based on Coordinated Resource Management Plan data	CRMP data does not meet criteria. DEQ has chosen to limit status calls to the water body Assessment process. DEQ BURP data indicates that the upper, middle, and lower segments of Clear Creek are fully supporting their beneficial uses.	#3

LEWISTON REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060305	3303	American River	Headwaters to S Fk Clearwater River	Why is MBI missing?	Data entry error, MBI is 4.67.	#3
17060305	5012	Bear Creek	Headwaters to Newsome Creek	IDFG & NRCS data suggest not to de-list	Not all IDFG and NRCS data meets criteria; DEQ data supports de-listing as BURP data indicates that Bear Creek is supporting it's beneficial uses.	#3
17060306	3174	Lolo Creek	Headwaters to Eldorado Creek	Al Espinosa recommends it stay on the list	DEQ BURP data collected on middle and upper sites on Lolo Creek indicates that the beneficial uses are fully supported.	#3
17060306	3175	Eldorado Creek	Headwaters to Lolo Creek	Al Espinosa recommends it stay on the list	DEQ BURP data collected on upper and lower reaches on Eldorado Creek indicates that the beneficial uses are fully supported.	#3
17060306	3177	Musselshell Creek	Headwaters to Lolo Creek	Al Espinosa recommends it stay on the list	DEQ BURP data collected on upper and lower reaches on Musselshell Creek indicates that the beneficial uses are fully supported.	#3
17060306	3178	Yoosa Creek	Headwaters to Lolo Creek	Al Espinosa recommends it stay on the list	DEQ BURP data collected on upper and lower reaches on Yoosa Creek indicates that the beneficial uses are fully supported.	#3
17060306	5075	Feather Creek	Headwaters to W Fk Potlatch River	Commentor #41: should be listed as water which does not meet the water quality standards established by the Federal CWA.	DEQ BURP data collected on Feather Creek indicates that the beneficial uses are fully supported.	#3
17060306	5148	Porcupine Creek	Headwaters to Potlatch River	Commentor #41: should be listed as water which does not meet the water quality standards established by the Federal CWA.	DEQ BURP data collected on Porcupine Creek indicates that the beneficial uses are fully supported.	#3

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050101	2415	Snake River	King Hill to HWY 51 Bridge	#59 - add QALT, HALT, SED, TEMP	(IDFG) Not assessed	#6
17050101	2422	Ryegrass Creek	Headwaters to Cold Springs Creek	#90 - add TEMP	(ICL) See temperature issue paper	#6
17050101	2423	Alkali Creek	Headwaters to Snake River	#90 - add TEMP	(ICL) See temperature issue paper	#6
17050101	2424	Little Canyon Creek	Headwaters to Snake River	#90 - add TEMP	(ICL) See temperature issue paper	#6
17050101	5641	Bennett Creek	Headwaters to Snake River	#59 - add QALT, HALT, SED, NUT	(IDFG)Pollutants unknown	#4, Pollutants Unknown
17050102	2555	Wickahoney Creek	Headwaters to Big Jacks Creek	#101 - intermittent, part is fenced off, remove QALT, SED, HALT	(Allotment Permittee)BURP data =NFS, not removing H or Q ALT	#5 New Boundary: 2.5 miles below headwaters to Big Jacks Creek
17050102	2558	Clover Creek	71 Draw to Bruneau River	#59 - add QALT, HALT, TEMP, NUT	(IDFG)Not adding Q or HALT, TEMP-See temperature issue paper, NUT-no data	#6
17050102	2561	Three Creek	Headwaters to Clover Creek	#59 - add QALT, HALT, TEMP, NUT	(IDFG)Not adding Q or HALT, TEMP-See temperature issue paper, NUT-no data	#6
17050103	2671	Succor Creek	Oregon line to Snake River	#99 - Exclude Succor Creek Res. QALT is not a valid category. Remove SED, TEMP #83 - add NUT, pesticides, DO, QALT	(Allotment permittee) (IRU) Listed for SED, QALT, TEMP	#6
17050103	2673	Jump Creek	Headwaters to Snake River	#83 - add SED, NUT, DO	(IRU) Listed for HALT	#6
17050103	2675	Hardtrigger Creek	Headwaters to Snake River	#83 - add QALT, HALT, DO, BAC	(IRU) Listed for SED	#6
17050103	2676	Reynolds Creek	Diversion to Snake River	#83 - add QALT, HALT, DO, BAC	(IRU) Listed for SED	#6
17050103	2677	Rabbit Creek	Headwaters to Snake River	#83 - add QALT, HALT, DO, BAC	(IRU) Listed for SED	#6
17050103	2684	Birch Creek	Headwaters to Snake River	#100 - remove SED	(Allotment permittee)BURP data = NFS	#6
17050103	2687	Poison Creek	Headwaters to Shoofly Creek	#100 - most is fenced off, intermittent, no data supporting SED or other designations	(Allotment permittee)BURP data = NFS	#6
17050104	2614	Deep Creek	Headwaters to Owyhee River	BRO - CWB=FS, SS=NFS	(BRO) Keep on list.	#1
17050104	2625	Juniper Basin Reservoir		#101 - solely agricultural - 303(d) does not apply	(Allotment permittee)Reservoir is waters of the state	#6

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050104	2627	Blue Creek Reservoir		#101 - solely agricultural - 303(d) does not apply	(Allotment permittee)Reservoir is waters of the state	#6
17050105	2632	South Fork Owyhee River	Nevada Line to Owyhee River	#101 - QALT not a valid category, not assessed for SED or TEMP	(Allotment permittee) not assessed	#6
17050107	2644	Juniper Creek	Headwaters to N Fk Owyhee River	#90 - TEMP parameter unclear	(ICL) Still listed for temp	#6
17050108	2649	Jordan Creek	Headwaters to Williams Creek	#98 add Hg	Oregon DEQ has a Hg fish advisory for Jordan Creek based on tissue data. Because of likely human health threat IDEQ is listing Jordan Creek for Hg.	#4 for Hg
17050114	2726	Boise River	Notus (town) to Snake River	#90 - don't delist for TEMP or NUT #83 - add TEMP, NUT, SED, BAC, QALT, HALT. OG is not a problem #67 - agrees OG and DO not a problem #74 - DO & OG should not be listed #30 - SED, NUT, QALT, subdivisions in floodplain	(ICL) Still listed for temp & nut (IRU) Will be listed for TEMP, NUT, SED, BAC (LBRWAG) delist for OG & DO (IFBF) delist for OG & DO (T. Chelstrom) Will be listed for TEMP, NUT, SED, BAC	#1, TEMP, NUT, BACT, & SED on 1998 303(d) list.
17050114	2727	Boise River	Star (town) to Notus (town)	#90 - don't delist for TEMP or NUT #83 - add TEMP, NUT, SED, BAC, QALT, HALT. O&G is not a problem #67 - agrees O&G and DO not a problem #74 - DO & OG should not be listed #30 - SED, NUT, QALT, SUBDIVISIONS in floodplain	(ICL) Still listed for temp & nut (IRU) Will be listed for TEMP, NUT, SED, BAC (LBRWAG) delist for OG & DO (IFBF) delist for OG & DO (T. Chelstrom) Will be listed for TEMP, NUT, SED, BAC	#1 TEMP, NUT, BACT, & SED on 1998 303(d) list.
17050114	2728	Boise River	Barber Diversion to Star	#83 - add TEMP, NUT, SED, BAC,QALT, HALT. O&G is not a problem #67 - remove SED, need more data on HALT #67 - agrees O&G and DO not a problem #74 - DO & OG should not be listed #30 - SED, NUT, QALT, SUBDIVISIONS in floodplain	(IRU) Will be listed for SED (LBRWAG) Not enough data to remove SED (LBRWAG) delist for OG & DO (IFBF) delist for OG & DO (T. Chelstrom) Will be listed for SED	#1 SED only 1998 303(d) list.

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050114	2729	Boise River	Lucky Peak to Barber Diversion	#67 - agrees O&G and DO not a problem #26 - QALT not a valid category - delist #74 - DO & OG should not be listed #30 - SED, NUT, QALT, SUBDIVISIONS in floodplain	(LBRWAG) delist for OG & DO (Board of Control) not delisting for QALT (IFBF) delist for OG & DO (T. Chelstrom) Will be listed for QALT	#6
17050114	2731	Indian Creek	New York Canal to Boise River	#73 - intermittent, irrigation	(Kuna) intermittent streams stay on list	#6
17050114	2732	Indian Creek	Headwaters to New York Canal	#67 - manmade irrigation #26 - manmade irrigation, intermittent #73 - intermittent, irrigation	(LBRWAG) intermittent streams stay on list (Board of Control) intermittent streams stay on list (Kuna) intermittent streams stay on list	#6
17050114	2734	Fivemile Creek	Headwaters to Fifteenmile Creek	#67 - manmade irrigation #26 - manmade irrigation, intermittent #74 - manmade	(LBRWAG) intermittent streams stay on list (Board of Control) intermittent streams stay on list (IFBF) intermittent streams stay on list	#6
17050114	2736	Tenmile Creek	Headwaters to Fifteenmile Creek	#67 - manmade irrigation #26 - manmade irrigation, intermittent #74 - manmade	(LBRWAG) intermittent streams stay on list (Board of Control) intermittent streams stay on list (IFBF) intermittent streams stay on list	#6
17050114	2737	Blacks Creek	Headwaters to Blacks Creek Res.	#26 - manmade irrigation, intermittent	(Board of Control) intermittent streams stay on list	#6
17050114	5637	Willow Creek	Headwaters to Boise River	#67 - impairment unclear #74 - intermittent	(LBRWAG) added streams have unknown pollutants (IFBF) intermittent streams stay on list	#6
17050114	5638	Cottonwood Creek	Headwaters to Freestone Creek	#67 - intermittent, impairment unclear #74 - intermittent	(LBRWAG) added streams have unknown pollutants (IFBF) intermittent streams stay on list	#6
17050114	5640	Lake Lowell		#83 - add TEMP, NUT #26 - manmade for irrigation	(IRU) Will be listed for DO, NUT (Board of Control) waters of the state listed for NUT & DO	#1 Add to list DO, NUT

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050120	5186	South Fork Payette River	Headwaters to Payette River	#96 - upper areas have no impairment, move boundary downstream	(BNF) Agree. Upstream boundary should be wilderness boundary	#5 New Boundary: Wilderness Boundary to Payette River
17050121	2703	Middle Fork Payette River	Headwaters to South Fork Payette River	#96 - re-eval. using fish data from IDFG	(BNF) Done. IDFG data shows NFS	#5 New Boundary: Big Bulldog Creek to South Fork Payette River
17050122	2697	Soldier Creek	Headwaters to Squaw Creek	#11 - DO not a problem - delist	(Squaw Cr SCD) Agree. Listed for SED. No data known of showing DO violations	#1 for SED
17050123	5625	Brush Creek	Headwaters to NF Payette River	(BRO) - CWB=FS, SS=NFS	(BRO) Add to list	#4
17050123	2884	Cascade Reservoir		#83 - add TEMP, NUT	(IRU) Will be listed for NUT, pH, DO	#1 For NUT, pH, DO
17050123	2890	Clear Creek	Headwaters to NF Payette River	BRO - CWB=FS, SS=NFS	(BRO) Keep on list	#1
17050123		Elip Creek	Headwaters to Payette Lake	(BRO) - CWB=FS, SS=NFS	(BRO) Add to list	#4
17050123	2893	Gold Fork River	Flat Creek to Cascade Reservoir	BRO indicated not assessed in 6/18/98 memo	(BRO) On original list	#6
17050123	5628	Lake Fork	Headwaters to Cascade Reservoir	BRO CWB data = FS, SS data = NFS		#4
17050123	5632	Van Wyck Creek	Headwaters to Cascade Reservoir	#96 - no exceedances - remove from list	(BNF) CWB data = FS, SS data = NFS	#4
17050124	2835	Weiser River	Headwaters to Little Weiser River			#5 New Boundary: WF Weiser River to Little Weiser River

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050124	5636	Johnson Creek	Headwaters to Weiser River	BRO indicated this stream should be removed from the list based on 3 FS BURP sites, SS data = NFS	(BRO)memo of 6/18/98	#4
17060206	2775	Monumental Creek	Headwaters to Big Creek			#5 New Boundary: Headwaters to Fall Creek
17060208	2919	South Fork Salmon River	Rice Cr. to Buckhorn Cr.	#96 - add SED from mining, grazing, roads, logging. BAC, Ammonia, NUT are not a problem BRO memo of 6/18/98 requested removal of above pollutants	(BNF) Agree. Listed for SED. Delist for BACT, NH3, NUT. (BRO) Agrees with BNF	#1 For SED
17060208	2950	Sugar Creek	Headwaters to E Fk S Fk Salmon River	BRO indicated Full Support of beneficial uses based on several agency data sources	(BRO) Data presented indicates FS	#3

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050102	2550	Bruneau River	Nevada line to Hot Creek	#83 - TEMP, SED #90 - TEMP, need more fish data #61 - polluted, livestock, HALT, high use area	(IRU) - TEMP-See temperature issue paper, SED-BURP data for Bruneau R. =FS. WF Bruneau=NA. (ICL) - TEMP-See temperature issue paper, 3 BURP sites on the Bruneau R.=FS. (CIHD) - HALT-BURP data for Bruneau R. =FS	#3
17050102	2552	Sugar Creek	Headwaters to Jacks Creek	#52 - delist; intermittent stream	(King)- Remain on list until a policy or assessment process is in place for intermittent streams	#1
17050102	2559	Big Flat Creek	Flat Creek to E Fk Bruneau River	#61 - polluted, livestock, HALT	(CIHD) - HALT-BURP data for Big Flat Cr. =FS	#3
17050102	2562	Deadwood Creek	Headwaters to E Fk Bruneau River	#61 - polluted, livestock, HALT	(CIHD) - HALT-BURP data for Deadwood Cr. =FS	#3
17050102	2563	Sheep Creek	Marys Creek to Bruneau River	#83 - need more fish, TEMP, NUT data #90 - fish absent, QALT, TEMP, SED #61 - QALT, polluted, livestock, HALT	(IRU) - TEMP-See temperature issue paper, FISH & NUT-BURP data for Sheep Cr. =FS. (ICL) - TEMP-See temperature issue paper, BURP data for Sheep Cr. =FS. (CIHD) - QALT, HALT-BURP data for Sheep Cr. =FS	#3
17050102	2564	Sheep Creek	Nevada Line to Marys Creek	#61 - polluted, livestock, HALT	(CIHD) - HALT-BURP data for Sheep Cr. =FS	#3
17050102	2565	Marys Creek	IR boundary to Sheep Creek	#83 - SED, NUT, BAC, TEMP #90 - need TEMP data, fish absent, inadequate assessment, QALT, TEMP, SED #61 - polluted, livestock, HALT, QALT, fish absent	(IRU) - TEMP-See temperature issue paper; SED, NUT &BACT-BURP data for Mary's Cr. =FS. (ICL) - TEMP-See temperature issue paper, BURP data for Mary's Cr. =FS. (CIHD) - QALT, HALT-BURP data for Mary's Cr. =FS	#3

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050103	2672	McBride Creek	Headwaters to Oregon Line	#90 - QALT, TEMP, SED #61 - polluted, livestock, HALT, QALT, fish absent	(ICL) - TEMP-See temperature issue paper, CWB data for McBride Cr. =FS. (CIHD) - QALT, HALT-BURP data for Deadwood Cr. = FS, SS data = NFS (CIHD) - QALT, HALT-CWB data for McBride Cr. = FS, SS data=NFS	#1
17050103	2683	South Fork Castle Creek	Headwaters to Castle Creek	#48 - TEMP, BAC, SED #90 - TEMP, need more fish data #61 - TEMP, BAC, livestock, HALT	(BLM) - BURP data for SF Castle Cr. = FS; Bacteria data for 1994 exceeds standard (ICL) - TEMP-See temperature issue paper, BURP data for SF Castle Cr. =FS. (CIHD) - TEMP-See temperature issue paper, HALT, BAC, BURP data for SF Castle Cr. =FS	#1 For BAC
17050104	2617	Pole Creek	Headwaters to Deep Creek	#59 - fish absent, livestock #90 - need TEMP data #61 - polluted, livestock, HALT, fish absent	(IDFG) - CWB data for Pole Cr.=FS, SS data=NFS (ICL) - TEMP-See temperature issue paper. (CIHD) - HALT-CWB data for Pole Cr. =FS, SS data=NFS	#1
17050104	2621	Battle Creek	Headwaters to Owyhee River	#48 - TEMP, fish absent #59 - fish absent, livestock #90 - need TEMP data #61 - BAC, pathogens, fish absent, HALT, QALT, livestock	(BLM) - BURP data for Battle Cr.=FS; Bacteria data for 1995 exceeds standard (IDFG) - BURP data for Battle Cr.=FS (ICL) - TEMP-See temperature issue paper. (CIHD) - BURP data for Battle Cr. =FS	#1 For BAC
17050104	2628	Blue Creek	Headwaters to Blue Creek Res.	#61 - polluted, livestock, HALT, fish absent	(CIHD) - BURP data for Blue Cr. =FS	#3
17050104	2630	Shoofly Creek	Headwaters to Blue Creek	#90 - TEMP, inadequate assessment #61 - polluted, livestock, HALT	(ICL) - TEMP-See temperature issue paper; BURP data for Shoofly Cr.=FS (CIHD) - BURP data for Shoofly Cr. =FS	#1 For BAC

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050107	2641	North Fork Owyhee River	Headwaters to Oregon Line	#59 - fish absent #90 - need fish data, QALT, TEMP, SED #61 - polluted, livestock, HALT	(IDFG) - BURP data for NF Owyhee R. =FS (ICL) - TEMP-See temperature issue paper; FISH, QALT, SED, BURP data for NF Owyhee R. =FS (CIHD) - BURP data for NF Owyhee R.=FS	#1 For BAC
17050107	2646	Noon Creek	Headwaters to N Fk Owyhee River	#59 - need more data #90 - TEMP #61 - polluted, livestock, HALT	(IDFG) -CWB data for Noon Cr.=FS, SS data=NFS (ICL) - TEMP-See temperature issue paper. (CIHD) - CWB data for Noon Cr. =FS, SS data=NFS	#1
17050107	6641	Cabin Creek	Headwaters to Juniper Creek	#59 - need more data #90 - TEMP #61 - polluted, livestock, HALT	(IDFG) - BURP data for Cabin Cr.=FS (ICL) - TEMP-See temperature issue paper. (CIHD) - BURP data for Cabin Cr. =FS	#3
17050107	6642	Corral Creek	Headwaters to Cabin Creek	#59 - need more data #90 - TEMP #61 - polluted, livestock, HALT	(IDFG) - BURP data for Corral Cr.=FS (ICL) - TEMP-See temperature issue paper. (CIHD) - BURP data for Corral Cr. =FS	#3
17050108	2650	Williams Creek	Headwaters to Jordan Creek	#61 - polluted, livestock, HALT	(CIHD) - BURP data for Williams Cr. =FS	#3
17050108	2654	Rock Creek	Triangle Res to N Fk Boulder Creek	#61 - polluted, livestock, HALT	(CIHD) - BURP data for Rock Cr. =FS	#3
17050108	2657	Meadow Creek	Headwaters to Rock Creek	#61 - polluted, livestock, HALT	(CIHD) - CWB data for Meadow Cr. =FS, SS data=NFS	#1
17050108	2659	Flint Creek	Headwaters to Jordan Creek	#61 - polluted, livestock, HALT	(CIHD) - BURP data for Flint Cr. =FS	#3

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050111	2761	Middle Fork Boise River	Wilderness boundary to Boise River	#83 - need more data, especially on fish, TEMP, mining #90 - need TEMP data, mining	(IRU) - TEMP-See temperature issue paper; BURP data for MF Boise R. =FS. (ICL) - TEMP-See temperature issue paper; BURP data for MF Boise R. =FS.	#3
17050111	2762	Roaring River	Headwaters to M Fk Boise River	#83 - TEMP #90 - need more fish data	(IRU) - TEMP-See temperature issue paper BURP data for Roaring R.=FS	#3
17050111	5191	Swanholm Creek	Headwaters to M Fk Boise River	#59 - add SED	(IDFG) - BURP data for Swanholm Cr.=FS	#3
17050112	2696	Robie Creek	Headwaters to Mores Creek	#59 - SED, QALT #83 - need more data	(IDFG) - BURP data for Robie Cr.=FS (IRU) - BURP data for Robie Cr.=FS	#3
17050112	2783	Mores Creek	Headwaters to Lucky Peak Reservoir	#83 - need more data #90 - TEMP, mining, SED, HALT, fish	(IRU) - BURP data for Mores Cr.=FS (ICL) - TEMP-See temperature issue paper; SED, HALT, FISH, BURP data for Mores Cr. =FS.	#3
17050112	2746	Grimes Creek	Headwaters to Mores Creek	#83 - need more data #90 - mining	(IRU) - BURP data for Grimes Cr.=FS (ICL) - BURP data for Grimes Cr.=FS	#3
17050112	5043	Clear Creek #1	Headwaters to Grimes Creek	#59 - Water quality limited.	(IDFG) - BURP data for Clear Cr. #1=FS	#3
17050113	2576	Wood Creek	Headwaters to Willow Creek	#59 - SED	(IDFG) - BURP data for Wood Cr.=FS	#3
17050113	2588	Lime Creek	Headwaters to Anderson Ranch Reserv	#59 - SED, HALT	(IDFG) - BURP data for Lime Cr.=FS	#3
17050113	2590	Trinity Creek	Headwaters to S Fk Boise River	#59 - SED	(IDFG) - BURP data for Trinity Cr.=FS	#3
17050113	2593	Shake Creek	Headwaters to S Fk Boise River	#59 - SED	(IDFG) - BURP data for Shake Cr.=FS	#3
17050113	5011	Bear Creek	Headwaters to Feather River	#59 - SED	(IDFG) - BURP data for Bear Cr.=FS	#3
17050113	5064	Dog Creek	Headwaters to S Fk Boise River	#59 - SED	(IDFG) - BURP data for Dog Cr.=FS	#3
17050113	5071	Elk Creek	Headwaters to Feather River	#59 - SED	(IDFG) - CWB data for Elk Cr.=FS, SS data=NFS	#1

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17050113	5076	Feather River	Pinto Creek to South Fk Boise River	#59 - SED	(IDFG) - BURP data for Feather R.=FS	#3
17050113	5086	Green Creek	Headwaters to S Fk Boise River	#59 - SED #90 - need TEMP data	(IDFG) - BURP data for Green Cr.=FS (ICL) - TEMP-See temperature issue paper.	#3
17050113	5089	Grouse Creek	Headwaters to S Fk Boise River	#59 - SED	(IDFG) - BURP data for Grouse Cr.=FS	#3
17050113	5120	Meadow Creek	Headwaters to Fall Creek	#59 - SED	(IDFG) - BURP data for Meadow Cr.=FS	#3
17050113	5157	Rock Creek	Headwaters to S Fk Boise River	#59 - SED	(IDFG) - BURP data for Rock Cr.=FS	#3
17050114	2730	Sand Hollow Creek	Headwaters to Boise River	#83 - need more data #90 - contributes SED & NUT to Lower Boise R.	(IRU) - Sand Hollow Cr. will remain on the list as is. (Per MM) (ICL) - Sand Hollow Cr. will remain on the list as is. (Per MM)	#1
17050114	2733	Mason Creek	Headwaters to Boise River	#67 - agrees w/ de-listing of man-made waterways #83 - contributes SED & NUT to Lower Boise R. #90 - contributes SED & NUT to Lower Boise R.	Comment noted (IRU) - Mason Creek will remain on the list as is (Per MM) (ICL) - Mason Creek will remain on the list as is. (Per MM)	#1
17050120	2715	Deadwood River	Headwaters to Deadwood Reservoir	#90 - need TEMP data	(ICL) - TEMP-See temperature issue paper.	#3
17050123	2893	Gold Fork River	Flat Creek to Cascade Reservoir	#90 - need TEMP data	(ICL) - TEMP-See temperature issue paper.	#1 For NUT & SED
17050124	2848	Pine Creek	Headwaters to Weiser River	#112 - supports delist	Comment noted	#3
17050124	2853	Middle Fork Weiser River	Headwaters to Cabin Creek	#112 - supports delist #90 - need TEMP data, SS	Comment noted (ICL) - TEMP-See temperature issue paper.	#3
17050124	2854	Cottonwood Creek	Headwaters to Weiser River	#112 - supports delist	Comment noted	#3
17050201	2831	Jenkins Creek	Headwaters to Snake River	#49 - Similar to 3 others in area that are on list	(WRSCD) - BURP data for Jenkins Cr.=FS	#3

BOISE REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060101	2912	Deep Creek	Wilderness Boundary to Snake River	#112 - supports delist	Major criteria exceedances for metals	#5 New Boundary: Red Ledge Mine to Snake River
17060101	6912	Deep Creek	Headwaters to Red Ledge Mine	#112 - supports delist	Comment noted	#3
17060208	2929	Secesh River	Lake Cr. to Loon Cr.	#112 - spawning habitat #90 - need TEMP data	(PNF) - BURP data for Secesh R. =FS (ICL) - TEMP-See temperature issue paper.	#3

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040209	5272	Marsh Creek	Land Creek to mouth	East Cassia SCD: Would Like to add upper segments of Marsh Creek. Sediment and nutrient information can be found in Raft River watershed study. EPA: The MBI score is high while the HI score is low on a site on Marsh Creek, why is there this apparent conflict. IDFG: Add Temperature as a pollutant.	The Raft River watershed report cited by the East Cassia SCD did not contain information pertaining to Marsh creek. DEQ data indicated that the upper segments of Marsh Creek were fully supporting the beneficial uses. IDFG: No data was suppled in order to add temperature as a pollutant to Marsh Creek. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body. EPA: Refer to general comments for response to MBI and HI conflict.	#4 For Unknown Pollutant
17040209	5273	South Fork Rock Creek	Headwaters to Rock Creek	Scott Brown: Temperature exceedance was noted on South Fork of Rock Creek.	See general comments about single instantaneous temperature exceedance.	#4 For Unknown Pollutant
17040210	2430	Raft River	Malta to Snake River	Scott Brown: Temperature Exceedance was noted on Raft River.	See general comments about single instantaneous temperature exceedance.	#1
17040210	2432	Sublett Creek	Sublett Res to lower boundaries	IDFG: Add temperature as a criteria.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040210	2434	Sublett Reservoir		IDFG: Add temperature as a criteria.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040210	2438	Cassia Creek	Connor Creek to Raft River	EPA: MBI and HI are in apparent conflict.	See general comment section of MBI and HI.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040211	2447	Goose Creek	State line to Lower Goose Creek Reservoir	IDFG: Add HALT as a pollutant.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040211	2448	Birch Creek	Headwaters to Oakley (town)	IDFG: Add QALT and HALT as pollutants. Scott Brown: Noted temperature exceedance on Birch Creek.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body. See general comments about single instantaneous temperature exceedance.	#6
17040211	2449	Trapper Creek	Headwaters to Oakley River	EPA: MBI and HI are in apparent conflict.	See general comment section of MBI and HI. Additionally, DEQ data indicated that the upper reaches of Trapper Creek were fully supporting the beneficial uses.	#5 New Boundary: Ibex Hollow to Lower Goose Creek Reservoir
17040211		Mill Creek	Headwaters to Forest Service boundary	Gerald Marchant: Mill Creek was added through clerical error.	Agree with commentor. Mill Creek was added to the 1998 303 d list through oversight. DEQ data collected in the upper reaches indicate that the beneficial uses of Mill Creek are fully supported. Temperature exceedances occur in a diversion channel. Water from Mill Creek has been removed from the natural channel for irrigation purposes.	#2

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040211	5275	Cold Creek	Headwaters to Goose Creek	Carl Austin: Various reports indicates that Cold Creek is intermittent. Scott Brown: Noted temperature exceedance.	USGS, BLM and DEQ all manage Cold Creek as a perennial stream system. BLM Proper Functioning Condition assessments indicate that Cold Creek is a perennial water body. Additionally, these assessments indicate that Cold Creek is not properly functioning. DEQ's data and subsequent site visits in the later part of the summer reaffirms the perennial nature of Cold Creek. DEQ data also support the BLM assessments that Cold Creek is not fully supporting its beneficial uses. See general comments for instantaneous temperature measurements.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040211		Emery Creek	Headwaters to Goose Creek	Carl Austin: Various reports indicate that Emery Creek is intermittent.	USGS and BLM manage Emery creek as an intermittent stream system. Subsequent site visits by DEQ personnel during the late summer also support the intermittent status of Emery Creek. Appropriate reference conditions of intermittent streams have not yet been developed by DEQ additionally the water body assessment process was developed for perennial streams. As a result of these circumstances the water body assessment process for intermittent water bodies is inadequate. Therefore BURP sites collected in intermittent streams will be excluded from this assessment cycle. See general comments section for intermittent stream segments.	#2
17040211	5277	Blue Hill Creek	Headwaters to Goose Creek	Carl Austin: Various reports indicate that Bluehill Creek is intermittent.	USGS, BLM and DEQ all manage Bluehill Creek as a perennial stream system. BLM Proper Functioning Condition assessments indicate that Bluehill Creek is a perennial water body. Additionally, these assessments indicate that Bluehill Creek is not properly functioning. DEQ's data and subsequent site visits in the later part of the summer affirms the perennial nature of Bluehill Creek. DEQ data also support the BLM assessments that Bluehill creek is not fully supporting its beneficial uses.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	**WQLSEG**	**WATER BODY**	**BOUNDARY**	**PUBLIC COMMENT**	**RESPONSE**	**DECISION**
17040211	5279	Little Cottonwood Creek	Headwaters to Dry Fork Creek	David Crockett: Do not list stream, a professional range scientist has evaluated the stream and found it to be improving. Scott Brown: Temperature exceedance noted IDFG: Add QALT and HALT as pollutants to Little Cottonwood Creek.	USGS and BLM manage Little Cottonwood Creek as an intermittent stream system. Subsequent site visits by DEQ personnel during the late summer also support the intermittent status of Little Cottonwood Creek. Appropriate reference conditions of intermittent streams have not yet been developed by DEQ additionally the water body assessment process was developed for perennial streams. As a result of these circumstances the water body assessment process for intermittent water bodies is inadequate. Therefore BURP sites collected in intermittent streams will be excluded from this assessment cycle. See general comments section of intermittent stream segments. See general comments about instantaneous temperature measurements. IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040211	5280	Big Cottonwood Creek	Billys Hole to mouth	David Crockett: Do not list stream, a professional range scientist has evaluated the stream and found it to be improving. IDFG: Add QALT and HALT as pollutants to Big Cottonwood Creek.	Commentators did not supply data indicating that standards were being met or that beneficial uses were fully supported. DEQ's data indicated that although cold water biota is fully supported, salmonid spawning is not. IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040211		Summit Creek	Headwaters to East Canal	Gerald Marchant: Summit Creek is a spring system that is thermally influence and therefore should not be listed.	Summit Creek is a small spring fed system with a very small watershed. BURP data collected in such systems across the state have shown that the current water body assessment process protocols for spring systems is inadequate. Furthermore, a review of scientific literature indicated that macroinvertebrate communities were limited in their development near the spring source. DEQ'S data was collected near the spring sources on Summit Creek. Because of these findings BURP data collected in spring systems will be excluded from this assessment process.	#2
17040212	2370	Bliss Reservoir		IDFG: Add temperature as a pollutant.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040212	2372	Lower Salmon Falls Reservoir		IDFG: Add temperature as a pollutant.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040212	2379	Clover Creek	Pioneer Res. to Snake River	IDFG: Add temperature as a pollutant. Scott Brown: Temperature Exceedance noted.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body. See general comments on single instantaneous temperature measurement. DEQ'S data indicated that the beneficial uses of Clover Creek are not fully supported.	#6
17040212	2403	Cottonwood Creek	Headwaters to Rock Creek	ICL: Cottonwood Creek is being delisted with temperature exceedances.	Cottonwood Creek was not proposed to be delisted. Burp data indicates that the stream is not fully supporting its beneficial uses. Additional temperature measurements concur with BURP data assessment of not full support.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040212	2408	Dry Creek	West Fk Dry Creek to Murtaugh Lake	Scott Brown : Salmonid Spawning temperature exceedance noted. IDFG: Add QALT, HALT, NUT, and SED as pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body. See general comments on single instantaneous temperature measurement.	#6
17040212	5286	Deep Creek	High Line Canal to Snake River	C. Brockway: This is a supplemented flow irrigation return channel that should be intermittent without canal or irrigation return flow.	DEQ has collected water chemistry and bacteriological data that clearly document water quality violations of Deep Creek. Additionally Deep Creek is one of the few water bodies in the state that have legislative designations for beneficial uses. IDAPA 16.01.01.080 states " No Pollutant shall be discharged...from other sources in concentrations or in a manner that: b. Will injure designated or existing beneficial uses." Because Deep Creek has designated beneficial uses DEQ is required to list the stream on the 1998 303(d) list.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040212	5646	Cedar Draw	Headwaters to Snake River	C. Brockway: This is a supplemented flow irrigation return channel that should be intermittent without canal or irrigation return flow.	DEQ has collected water chemistry and bacteriological data that clearly document water quality violations of Cedar Draw. Additionally Cedar Draw is one of the few water bodies in the state that have legislative designations for beneficial uses. IDAPA 16.01.01.080 states " No Pollutant shall be discharged...from other sources in concentrations or in a manner that: b. Will injure designated or existing beneficial uses." Because Cedar Draw has designated beneficial uses DEQ is required to list the stream on the 1998 303(d) list.	#1
17040212	5647	Mud Creek	Low Line Canal to Snake River	C. Brockway: This is a supplemented flow irrigation return channel that should be intermittent without canal or irrigation return flow.	DEQ has collected water chemistry and bacteriological data that clearly document water quality violations of Mud Creek. Additionally Mud Creek is one of the few water bodies in the state that have legislative designations for beneficial uses. IDAPA 16.01.01.080 states " No Pollutant shall be discharged...from other sources in concentrations or in a manner that: b. Will injure designated or existing beneficial uses." Because Mud Creek has designated beneficial uses DEQ is required to list the stream on the 1998 303(d) list.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	**WQLSEG**	**WATER BODY**	**BOUNDARY**	**PUBLIC COMMENT**	**RESPONSE**	**DECISION**
17040213	2459	Salmon Falls Creek	Salmon Falls Dam to Snake River	L. Sedler: Fecal coliform data show exceedances of state standards. ICL: Temperature exceedances of state standards.	The Salmon Falls River has had a boundary change from the 1994/1996 303(d) lists. DEQ data agrees that there is a water quality problem in some of Salmon Falls Creek, for that reason the section of Salmon Falls Creek from the Bluegill Lake to the Snake River will remain on the 1998 303(d) list. BURP data from the sections upstream from Bluegill Lake indicate that Samon Falls Creek is fully supporting it's beneficial uses. The criteria violations referred to all occurred in the lower section of the creek that is remaining on the list.	#5 New Boundary: Bluegill Lake to Small Creek
17040213	2462	Cedar Creek	Cedar Creek Res to Salmon Falls Cr	Balanced Rock SCD: Cedar Creek is a intermittent stream and should not be listed. No flow has occurred since 1984.	Cedar Creek will remain on the 1998 303(d) list until such time as a Use Attainability Analysis can be completed. Data submitted by the Balanced Rock SCD indicate that Cedar Creek from the reservoir to the Snake River will be removed from upcoming lists upon approval of the UAA as it is unable to meet current default beneficial uses. According to UAA guidance a stream can be downgraded if a diversion or dam prevents the attainment of the beneficial uses or flow regulation prevents such uses from being attained. Cedar Creek has had a diversion and flow regulation in place since 1964.	#1 Until an approved UAA is completed.

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040213	2466	Shoshone Creek	Magic Hot Springs to Nevada	IDFG: Add HALT, and SED as pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040213	2468	Shoshone Creek	Cottonwood Creek to Big Creek	IDFG: Add HALT, and SED as pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040213		Pole Camp Creek	Headwaters to Shoshone Creek	Jeff Williams: Pole Camp Creek is a intermittent stream and should not be listed.	The USFS level two riparian evaluation of Pole Camp Creek indicated that only part of the stream was intermittent. However, the USGS have designated Pole Camp Creek as perennial. DEQ personnel have done late season reconnaissance of Pole Camp Creek and have found it to be dry in late summer. BURP data collected in intermittent streams across the state have indicated the water body assessment process may be inadequate for intermittent streams. As a result of these findings BURP data collected in intermittent streams will be excluded from the current water body assessment process.	#2

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040213	5285	Hopper Gulch	Headwaters to Shoshone Creek	Jeff Williams: Hopper Gulch Creek is a intermittent stream and should not be listed.	The USFS level two riparian evaluation of Hopper Gulch indicated that part of the stream was intermittent. However, the lower portions of the stream are considered perennial. Additionally, the USGS have designated Hopper Gulch as perennial. Late season reconnaissance by DEQ personnel have found the lower portions of Hopper Gulch to be flowing at the end of August. As a result of these findings, management, and designations DEQ will consider Hopper Gulch as perennial. DEQ data indicate that the beneficial uses of Hopper Gulch are not fully supported.	#1
17040219	2477	Big Wood River	Highway 75 to Little Wood River	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040219	2482	Big Wood River	Glendale Diversion to T1NR18ES35	IDFG: Add HALT as a pollutant.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040219	2483	Big Wood River	Trail Creek to Glendale Diversion	Brian Ravenscroft: Do not delist upper segment, the old growth forest is contributing to the degradation of the lower river with inputs of organic compounds. IDFG: Add NUT as a pollutant.	Thank you for your input, the information submitted will be taken into consideration. IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2 Upper segment #6
17040219	5292	Baker Creek	Headwaters to Norton Creek	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040219	5294	Greenhorn Creek	Headwaters to Big Wood River	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040219	5295	East Fork Wood River	Headwaters to Blind Canyon	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040219	5296	Cove Creek	Headwaters to East Fk Wood River	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040219	5297	Quigley Creek	Headwaters to mouth	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040219	5298	Seamans Creek	Headwaters to Big Wood River	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040220	2532	Camas Creek	Headwaters to Macon Flat Bridge	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040220	5306	Corral Creek	Highway 20 to Camas Creek	IDFG: Add QALT, HALT, and SED as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040221	2511	Little Wood River	Richfield (town) to Big Wood River	IDFG: Add QALT, HALT, and TEMP as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040221	2512	Little Wood River	Silver Creek to Richfield (town)	IDFG: Add QALT, HALT, and TEMP as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040221	2513	Little Wood River	East Canal Diversion to Silver Cr	IDFG: Add QALT, HALT, and TEMP as a pollutants.	IDFG did not supply data indicating the standards were not being met or that the beneficial uses were not being fully supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#6
17040221	5288	Muldoon Creek	South Fk Muldoon Creek to Little Wood River	Scott Brown: Temperature exceedance noted.	See general comments under single instantaneous temperature measurement.	#1

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040209		Almo Creek	Headwaters to Edwards Creek	East Cassia SCD: Would like to add Almo Creek. Sediment and nutrient information can be found in Raft River Watershed study.	Raft River Watershed report cited as a data source does not contain information about Almo Creek. DEQ or any other state or federal agency data was not available at the time of the water body assessment process. The Beneficial uses of this stream have not been assessed. Therefore, without appropriate data DEQ will not list a water body.	#2
17040209		Edwards Creek	Headwaters to Raft River	East Cassia SCD: Would like to add Edwards Creek. Sediment and nutrient information can be found in Raft River Watershed study.	Raft River Watershed report cited as a data source does not contain information about Edwards Creek. DEQ or any other state or federal agency data was not available at the time of the water body assessment process. The Beneficial uses of this stream have not been assessed. Therefore, without appropriate data DEQ will not list a water body.	#2
17040210		Fall Creek	Headwaters to Lake Creek	IDFG: Add stream to list.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040209		Lake Walcott		IDFG: Add reservoir to list.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040209		Land Creek	Headwaters to Marsh Creek	IDFG: Add stream to list.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040209		Taters Creek	Headwaters to Edwards Creek	East Cassia SCD: Would like to add Taters Creek. Sediment and nutrient information can be found in Raft River Watershed study.	Raft River Watershed report cited as a data source does not contain information about Taters Creek. DEQ or any other state or federal agency data was not available at the time of the water body assessment process. The Beneficial uses of this stream have not been assessed. Therefore, without appropriate data DEQ will not list a water body.	#2
17040210		Lake Creek	Headwaters to Sublett Reservoir	IDFG: Add stream to list, bacteria, SED, Nut, and HALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040210		Sublett Creek	Headwaters to Sublett Reservoir	IDFG: Add stream to list, SED, and NUT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040211		Trout Creek	Headwaters to Goose Creek	IDFG: Add stream to list, SED, NUT, and HALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040211		Water Canyon Spring	Headwaters to Mouth	Scott Brown; Noted temperature exceedance.	See general comments about single instantaneous temperature exceedance.	#2
17040212		Calf Creek	Headwaters to Clover Creek	Scott Brown; Noted temperature exceedance.	See general comments about single instantaneous temperature exceedance.	#2
17040212		Catchall Creek	Headwaters to Clover Creek	Scott Brown; Noted temperature exceedance.	See general comments about single instantaneous temperature exceedance.	#2
17040212		Clover Creek	Headwaters to Pioneer Reservoir	Scott Brown; Noted temperature exceedance. IDFG: Add temperature as a pollutant.	See general comments about single instantaneous temperature exceedance. IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040212		Niagara Spring Creek	Source to Snake River	IDFG: Add stream to list, SED, NUT HALT, and QALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040212		Rock Creek	Headwaters to Rock Creek Town	IDFG: Add stream to list, SED, NUT HALT, and QALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040213		House Creek	Headwaters to Cedar Creek Reservoir	IDFG: Keep stream on list, TEMP, SED, Nut, and HALT as pollutants. CHID: stream is polluted and degraded from excessive cattle grazing.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040213		Hot Creek	Headwaters to Shoshone Creek	Scott Brown: Noted temperature exceedance.	See general comments about single instantaneous temperature exceedance. Additionally, Hot Creek is a thermally active stream system.	#2
17040213		Salmon Falls Creek	Idaho State line to Salmon Falls Dam	IDFG: Add stream to list, SED and HALT as pollutants. CHID: Pollution and degraded stream conditions from excessive cattle grazing.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040213		Salmon Falls Creek	Salmon Falls Dam to Bluegill Lake	IDFG: Add stream to list, SED, HALT, and QALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2

TWIN FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL*						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040219		Magic Reservoir		IDFG: Add stream to list, NUT and QALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040220		Dairy Creek	Headwaters to Mormon Reservoir	IDFG: Add stream to list SED, NUT HALT, and QALT as pollutants.	IDFG did not supply data indicating that the standards were not being met or that the beneficial uses were not being supported. Without appropriate data DEQ will not list a water body or change pollutants listed for a water body.	#2
17040221		Thompson Creek	Headwaters to Muldoon Creek	Scott Brown: Noted temperature exceedance.	See general comments about single instantaneous temperature exceedance.	#2

*General: DEQ's answer or response is covered in Chapter 4 of this document according to topic of concern (i.e. fish, process, habitat, etc.).

POCATELLO REGIONAL SPECIFIC COMMENTS AND RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
16010201	5251	North Creek	Unnamed trib 3.2 km below Mill Hollow to Ovid Cr	Sterling Wallentine (Bear Lake SWCD) concerned with the addition of lower North Creek to the list.	BURP data (including electrofishing information) conclusively indicates impairment of Beneficial Use in the designated segment as proposed for addition to the 303 list. Re-evaluation via 97 BURP data pending.	#4
16010202	2238	Weston Creek	Headwaters to Bear River	Eric Bastian- Franklin SWCD opposed the addition of Deep & Fivemile Creeks to the 303 list and the failure to remove Weston and Battle Creeks from the list. Reasons included the recent dairy-related BMP implementation in Franklin Co., their interpretation of the results from the early 90's SAWQP study, and future agriculture-related BMPs.	Responded via copy of letter to Larry Koenig that BURP and/or fish data for all of these streams indicates NFS and that evidence(SAWQP study) strongly suggests that conditions unrelated to agriculture are currently impacting beneficial use.	#1
16010204	5257	Deep Creek	Headwaters to mouth	Oneida SWCD opposes addition of Dairy, Elkhorn, and Deep Creeks to the 303(d) list.	BURP data for lower Elkhorn, Deep, and Dairy Creeks strongly indicate some Beneficial Use impairment. Plan to do verification via electrofishing and future monitoring.	#1
16010204	5258	Elkhorn Creek	Forest Service and to Little Malad River	Oneida SWCD opposes addition of Dairy, Elkhorn, and Deep Creeks to the 303(d) list.	BURP data for lower Elkhorn, Deep, and Dairy Creeks strongly indicate some Beneficial Use impairment. Plan to do verification via electrofishing and future monitoring.	#1
16010204	5259	Dairy Creek	Headwaters to Wright Creek	Oneida SWCD opposes addition of Dairy, Elkhorn, and Deep Creeks to the 303(d) list.	BURP data for lower Elkhorn, Deep, and Dairy Creeks strongly indicate some Beneficial Use impairment. Plan to do verification via electrofishing and future monitoring.	#1

POCATELLO REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL						
HUC	**WQLSEG**	**WATER BODY**	**BOUNDARY**	**PUBLIC COMMENT**	**RESPONSE**	**DECISION**
17040206		Springfield Lake	Between Blackfoot and Aberdeen	Farm and cattle pollution	DEQ will be looking at this in the future. Possible future BURP monitoring.	#2
16010201		Bear Lake		Wants Bear Lake on 303(d) List	No data to support beneficial use impairment.	#2

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040104		South Fork Indian Creek	Wyoming line to Indian Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited site 96EIROZ006 8/25/98, i.e. late summer on a nearly average water year. Stream channel was dry. Conclude that stream likely dries up regularly, full development of resident macroinvertebrate or fish communities is not attainable under these circumstances, and listing the stream based upon biological conditions would be inappropriate.	#2
17040104		North Fork Indian Creek	Wyoming line to Indian Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited site 96EIROZ007 8/25/98, i.e. late summer on a nearly average water year. Stream channel was dry. Conclude that stream likely dries up regularly, full development of resident macroinvertebrate or fish communities is not attainable under these circumstances, and thus listing the stream based upon biological conditions would be inappropriate.	#2
17040104		Russell Creek	Headwaters to S Fk Snake River	#17 - Stream is intermittent and biological indices will be inaccurate.	See response to comment #80	#2
17040104		Russell Creek	Headwaters to S Fk Snake River	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited site 96EIROY005 8/25/98, i.e. late summer on a nearly average water year. Stream channel was dry. Conclude that stream likely dries up regularly, full development of resident macroinvertebrate or fish communities is not attainable under these circumstances, and listing the stream based upon biological conditions would be inappropriate.	#2

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040104		Tag Alder Creek	Headwaters to S Fk Snake River	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited site 96EIROY004 8/25/98, i.e. late summer on a nearly average water year. Stream channel only had about 1" water, barely flowing. Conclude that stream likely dries up regularly, full development of resident macroinvertebrate or fish communities is not attainable under these circumstances, and listing the stream based upon biological conditions would be inappropriate.	#2
17040104		Tag Alder Creek	Headwaters to S Fk Snake River	#17 - Stream is intermittent and biological indices will be inaccurate.	See response to comment #80.	#2
17040202	2078	Henry's Fork	Buffalo River to Riverside Reach	#72 - Segment impacted by 1992 dam operations. Study showed flushing flows infeasible. No other sources present, so it should be de-listed.	Concur with comments. See also response to commentor #75	#3
17040202	2078	Henry's Fork	Buffalo River to Riverside Reach	#75- Segment should be de-listed because segment supports beneficial uses. Data cited to support comment included IDFG and Montana State University studies which found that full seeding of available salmonid production habitat was occurring. Also reported macroinvertebrate data which showed good to excellent water quality based on Idaho State University's Idaho River Index.	Evaluated data provided and cited and concur with the cemmentors.	#3
17040202	2106	Henrys Lake		#72 - EPA Clean Lakes Study and SAWQP study outline water quality problems and control strategies. These should be submitted as TMDL and TMDL implementation plans	No recommendation provided on whether Henry's Lake should be listed. Referenced plans are relied upon in management recommendations subbasin assessment, but are not TMDL plans as defined by EPA.	#3

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040202	2106	Henrys Lake		#20 - DEQ spent over $150,000 to investigate water quality only to find that phosphorous was entirely natural from phosphate deposits. North Fork Reservoir Company is assisting with winter aeration to artificially raise winter dissolved oxygen levels. Lake should be de-listed.	Concur. See response to letter #75.	#3
17040202	2106	Henrys Lake		#75 - 1996 Clean Lakes study concluded that lake meets beneficial uses, high nutrient loading is natural, and trophic state is a result of natural lake succession, not human caused impairment. Evaluation of 55 alternatives for reducing nutrient loading regardless were rejected as being either ineffective, or cost prohibitive.	Concur with comments. Infrequent and natural exceedances dissolved oxygen criteria are not sufficient reason to include lake in 303(d) list.	#3
17040202		Tygee Creek	Forest Service boundary to Henrys Fork	#17 - Concur with only listing the creek below the Targhee National Forest boundary.		#2
17040202		Tygee Creek	Forest Service boundary to Henrys Fork	#72 - Should not be added to list because pollutant is unknown, further assessment required before TMDL.	Stream was proposed for list because of low biological score. Reason was low score is undetermined, but would be identified before TMDL plan completed. However, see response to commenter #75	#2

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040202		Tygee Creek	Forest Service boundary to Henrys Fork	#75 - This segment of Tygee Cr has been fully diverted annually from April 1 to November 1 based on results of a 1917 court adjudication. Affidavit and adjudication finding included. Stream is not protected for beneficial use.	Intermittent streams are not automatically excluded from protection for existing or designated beneficial uses, and when they do flow the water quality should be sufficient to protect aquatic life, for example, to allow fish to migrate through. However, proposed listing was based on a biological index which is appropriate for perennial streams. Information provided indicates stream should not be added to the list based on biological index score.	#2
17040202		Tygee Creek	Forest Service boundary to Henrys Fork	#20 - Tygee Creek, AKA Tyhee Creek, AKA Dry Creek, below the Forest Service boundary only has water in it a few weeks a year. Stream should not be listed.	Concur. Full development of biological conditions (an assumption of biological indices) cannot occur in intermittent streams.	#2
17040202	5261	Garner Canyon	Headwaters to mouth	#75 - No such stream, DEQ sampled Garner Springs.	Concur. See also comment #75 on Meadow Cr., comment #17 regarding de-listing Warm Cr., and the responses.	#2
17040202	5261	Garner Canyon	Headwaters to mouth	#72 -Same comment as on Tygee Cr	See response to commenter # 72 on Tygee Cr	#2
17040202		Meadow Creek	Headwaters to Henrys Fork	#42 - Stream should not be added to list because it was completely dry in the early 1990s and often has little flow. Grazing is limited and sediment produced from cattle is minimal.	See response to comment #75	#2
17040202		Meadow Creek	Headwaters to Henrys Fork	#72 - Same comment as on Tygee Cr	See response to comment # 72 on Tygee Cr	#2

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040202		Meadow Creek	Headwaters to Henrys Fork	#75 Detailed argument describing how their data and other stream ecology literature show differences in macroinvertebrate communities from spring fed streams and precipitation fed streams. Conclude that EPT taxa in spring fed streams are naturally limited and the Idaho MBI should not be applied to these types of streams, including Meadow Cr	Evaluated data submitted and references cited in their letter. Further inquires support comment that natural springs support different biological communities than typical precipitation fed streams, and the MBI may not be accurate when sampling spring fed streams close to their sources. See also response to comment #17 regarding de-listing Warm Cr (HUC 17040215)	#2
17040204	2119	Moody Creek	Forest Boundary to Teton River	#82 - Add sediment as the pollutant impairing uses.	Concur that sediment is a likely pollutant of concern on this segment. However, we have not yet investigated causes of impairment for this water body and no data were provided. A more extensive evaluation of causes of impairment is planned for the subbasin assessment/TMDL process.	#1
17040204	5231	Dry Creek	Wyoming line to Bitch Creek	Stream is intermittent and biological indices will be inaccurate. Stream was dry during 9/96 electrofishing attempt.	Stream not specifically commented on, however, consistent with responses to commenter #80 and others on intermittent streams, conclude intermittent streams should not be added to the 303(d) list based solely upon biological index scores, which were developed for perennial streams.	#2
17040205	2042	Birch Creek	Headwaters to Willow Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of sites 96EIROZ041 and 96EIROZ037 on 8/26/98, i.e. late summer on a nearly average water year. Water depth in stream channel averaged 4-5". Conclude that stream likely flows year-round most water years, and that listing the stream based upon biological conditions is appropriate.	#1

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040205	2048	Corral Creek	Headwaters to Brockman Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of site 94EIRO84 and on 8/26/98, i.e. late summer on a nearly average water year. Water about 2-5" deep, minnows observed. Conclude that stream likely flows year-round most water years, and that listing the stream based upon biological conditions is appropriate.	#1
17040205	2049	Sawmill Creek	Headwaters to Brockman Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of site 94EIRO16 on 8/26/98, i.e. late summer on a nearly average water year. Site now flooded by beaver dam, about 18" depth. Conclude that stream likely flows year-round most water years, and that listing the stream based upon biological conditions is appropriate.	#1
17040205	2050	Homer Creek	Headwaters to Grays Lake Outlet	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of site 95EIROZA18 on 8/26/98, i.e. late summer on a nearly average water year. Water about 1' deep. Site 95EIROB21 had a 1-2" trickle. Conclude that these extremely low flows may limit attainable conditions for aquatic life, however, there is insufficient information to remove the stream from the 1996 list based on low flows.	#1
17040205	2053	Long Valley Creek	Headwaters to Willow Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of sites 97L7 and 97L8 and on 8/26/98, i.e. late summer on a nearly average water year. Water about 4-5" deep. Conclude that stream likely flows year-round most water years, and that listing the stream based upon biological conditions is appropriate.	#1

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040205	2056	Crane Creek	Headwaters to Willow Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of sites 97EIROM6 and 98D009 on 8/26/98, i.e. late summer on a nearly average water year. Water about 2-4" deep. Conclude that these extremely low flows may limit attainable conditions for aquatic life, however, there is insufficient information to remove the stream from the 1996 list based on low flows.	#1
17040205	5232	Buck Creek	Headwaters to Mill Creek	#80 - Stream is intermittent and cannot attain full support of cold water biota and salmonid spawning	To evaluate comment, revisited vicinity of site 96EIROY002 on 8/26/98, i.e. late summer on a nearly average water year. Water about 1" deep. Concur that these extremely low flows may limit attainable conditions for aquatic life, however, there is insufficient information to remove the stream from the 1996 list based on low flows.	#1
17040217	2148	Sawmill Creek	Mill Creek to Little Lost River	#106 - Stream not included on list despite salmonid spawning temperature exceedances	Comment mistaken, stream included on list for criteria exceedances	#1
17040217	2148	Sawmill Creek	Mill Creek to Little Lost River	#92-Their evaluation of substrate did not indicate sedimentation problems. Why is it listed for sedimentation	Listed pollutants are carried over from the 1994 303(d) list prepared by EPA. Source cited by EPA contain no data. However, until streams are more fully evaluated through the SBA/TMDL process, pollutants listed by EPA are retained.	#1
17040217		Summit Creek	Headwaters to Little Lost River	#106 - Stream not included on list despite salmonid spawning temperature exceedances	See chapter 3 and associated list.	#2

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040218	5236	Little Boone Creek	Headwaters to E Fk Little Lost R	#92 - 1997 electrofishing found no fish. Since it is not a fish bearing stream, what beneficial uses are not supported?	Waters are to be protected for cold water biota, which includes but is not limited to fish. Stream proposed for listed based on low macroinvertebrate score. Score indicates general suitability for cold water biota, including fish, not just whether macroinvertebrates are supported. Absence of fish by itself does not indicate stream could not support aquatic life.	#1
17060201	3009	Salmon River	Redfish Lake Cr to E Fk Salmon R	#44 - Questions on applicability of temperature standards to the river at all times of the year. No recommendation included.	This segment of the Salmon River was listed by EPA in 1994 without supporting data, it is retained on the list because this segment (and many rivers in Idaho) has not been studied and no data to make a determination on its condition is available.	#1
17060201	3030	Squaw Creek	Headwaters to Forest Boundary	#92 - Water quality on Squaw Cr on the National Forest should be as good as water quality below the Forest. Why de-list lower section and not upper section	Segment inadvertently carried over from previous list. Assessment results found uses supported and no criteria violations.	#3
17060201	3030	Squaw Creek	Headwaters to Forest Boundary	#42 - Unclear why Squaw Creek from Headwaters to National Forest boundary are retained on the list	Segment inadvertently carried over from previous list. Assessment results found uses supported and no criteria violations.	#3
17060201	5229	Trealor Creek	Headwaters to Squaw Creek	#42- Questioned basis for listing	Re-evaluated site data. MBI score for site 96EIROY121 miscalculated, listed as 2.46, should be 2.87	#2
17060201	5229	Trealor Creek	Headwaters to Squaw Creek	#92- Questioned basis for listing	See response to comment #42	#2
17060203	2952	Bucktail Creek	Headwaters to S Fk Big Deer Creek	# 92 - Agree this is a water quality limited segment.	Concur with comment.	#1
17060203	2967	Panther Creek	Blackbird Creek to Salmon River	# 92 - Agree this is a water quality limited segment.	Concur with comment.	#1
17060203	2972	Big Deer Creek	Big Deer Cr. S.Fk to Panther Cr.	# 92 - Agree this is a water quality limited segment.	Concur with comment.	#1

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060203	2977	Blackbird Creek	Blackbird Creek Reservoir to Panther Creek	# 92 - Agree this is a water quality limited segment.	Concur with comment.	#1
17060203	2989	Dump Creek	Headwaters to Salmon River	# 92 - Agree this is a water quality limited segment.	Concur with comment.	#1
17060203	5239	Williams Lake		#92 - Concur Williams Lake has water quality problems associated with septic systems at homes around the lake. However, some of the nutrient and DO problems are inherent in a lake without an outlet.	Concur with comment.	#1
17060203	5240	Diamond Creek	Headwaters to Salmon River	#92 - Do not consider Diamond Cr a fish bearing stream	Waters are to be protected for cold water biota, which includes but is not limited to fish. Stream proposed for listed based on low macroinvertebrate score.	#1
17060204	5264	Short Creek	Headwaters to Bear Valley Creek	#92- Land use and management status for Short Creek is identical to other streams in the watershed, there is no reason for Short Cr to be treated differently from other streams in the area.	Comment emphasizes reason for not presuming to list a pollutant when no information other than biological monitoring is available: cause for biological condition is unknown. Short Cr had markedly lower MBI scores than did other nearby streams in the Salmon NF with similar terrain, elevation, size, and sampled at about the same time (Kadletz, Tobias, Ford, Deer, EF Hayden). If further monitoring shows conditions are natural or that cold water biota is fully supported, the stream may be de-listed for the next list.	#1

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040205	2041	Tex Creek	Headwaters to Indian Fork	#98 at pp. 15, 16, and 18 – Abbreviations and rationale given on the data report supporting boundary change decisions and partial de-listing of the stream are confusing and in some cases contradictory.	Streams with boundary changes have segments which fully support beneficial uses (usually the headwaters sections) and other segments which do not, or for which the support status could not be affirmatively decided (the "Needs Verification" streams). Codes were used in the database to generate statements that were intended to explain the assessment results. The report did not always specify whether the comments applied to the un-impaired, or to the impaired stream segments. In some cases, this resulted in comments on criteria exceedances or assessment codes for impaired segments appearing next to sites that were assessed as unimpaired. We regret the confusion this caused. The de-listed sections include sampling data indicating unimpaired conditions; segments retained on the list had criteria exceedances, and/or poor or ambiguous biological indicators. Segments were delineated accordingly. The full site data files were not included in the database printout referenced.	#1
17040215	2206	Medicine Lodge Creek	Middle Creek to Small Creek	#98 at pp. 15. Database printout does not appear to correspond with boundary change decision. Site listed with less than full support status, yet stream de-listed.	Reviewed site data. Concur that boundary changes do not appear to follow water body assessment guidance, nor was a rationale for deviating from guidance recorded. Boundaries revised to include only sites assessed FS for all uses.	#5 New Boundary: Spring Hollow Creek to the town of Small

IDAHO FALLS REGIONAL SPECIFIC COMMENTS & RESPONSES - LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040217	2148	Sawmill Creek	Mill Creek to Little Lost River	#98 at p. 16 and 18. The MBI for these sites look fine, yet there were criteria exceedances. Idaho needs to provide rationale that the MBI is a reasonable indicator of beneficial use given this apparent discrepancy.	In addition to strong MBI values, Sawmill Creek supports vigorous bull trout and rainbow trout populations. Criteria exceedances are for temperature only, concur that there is little evidence of adverse effects of limited temperature criteria excursions in the national "Gold Book" guidance or elsewhere	#1
17040217	2145	Wet Creek	Coal Creek to Little Lost River	#98 at p. 16 and 18. The MBI for these sites look fine, yet there were criteria exceedances. Idaho needs to provide rationale that the MBI is a reasonable indicator of beneficial use given this apparent discrepancy.	In addition to strong MBI values, Sawmill Creek supports vigorous bull trout and rainbow trout populations. Criteria exceedances are for temperature only, concur that there is little evidence of adverse effects of limited temperature criteria excursions in the national "Gold Book" guidance or elsewhere	#1
17060203	2977	Blackbird Cr	Reservoir to Panther Cr	#90 at p. 15 - Segment was apparently de-listed through a use attainability analysis. This may be appropriate, but question mining impacted Blackbird Creek's compliance with standards.	De-listed segment is the upstream, uncontaminated segment. Mining impacted segment has been retained on list.	#1
17060203	2977	Blackbird Cr	Reservoir to Panther Cr	#98 at p. 18 - The rationale on the database printout that was supposed to support boundary change decisions indicates that this water should be on the 303(d) list, not the boundary change list (criteria exceedance).	The boundary change de-lists the upstream, un-impacted segment of Blackbird Creek. Assessment report relied on data beyond the BURP program. The rationale referred to in the comment applies to the downstream, polluted segment which is retained on the list	#1

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040205	2046	Lava Creek	Headwaters to Grays Lake Outlet		Our salmonid spawning evaluation approach has been changed in response to several comments (e.g. # 59, 76, 98, see also Chapter 2). This re-evaluation changed the salmonid spawning support status on Lava Creek, wherein it is now rated as not fully supporting salmonid spawning based upon ambiguous salmonid species age class data and low habitat conditions score.	#1
17040205	2051	Sellars Creek	Headwaters to Willow Creek	#66 - Sellars Creek below the confluence of the SF Sellars has severe downcutting, tremendous erosion, and does not support salmonid spawning. A three mile section should stay on the list (map included in comments).	Re-visited Sellars Creek and re-evaluated data in light of comment. Site 95EIROB23, with an MBI of 2.74 is located in the subject section. Site was assessed as fully supporting cold water biota based on fish data collected from above the SF Sellars Cr. Concur that stream channel conditions are different enough that upstream fish data should not be extrapolated to lower segment.	#1
17040205	2051	Sellars Creek	Headwaters to Willow Creek	#82 - Recommend retaining on 303(d) list the section from the South Fork confluence to Willow Creek. BURP sampling in Sellars Cr above the Forks is unrepresentative of conditions below the Forks. The lower reach has obvious headcutting and erosion problems.	Upon re-evaluation, concur with comments and recommendation. See response to comment letter #66 on Sellars Cr.	#1
17040215	2213	Warm Creek	Headwaters to Divide Creek	#17 - Concur with recommendation to remove stream since it was listed for temperature and has as its source a warm spring.	Concur with concurrence.	#3

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040215	2213	Warm Creek	Headwaters to Divide Creek	#98 at p.10 - MBI is 2.24 yet remarks in supporting rationale indicate no biological impairment. That the stream is naturally warm is insufficient to de-list the stream since Idaho's WQS do not have a provision for naturally warm waters. The stream was listed for nutrients, so it should stay on the list until the nutrient impairment is addressed.	Report did not include assessment remarks that the MBI results for Site 96EIRO999 were excluded from assessment results for Warm Creek due to review of research showing that macroinvertebrate community development in springbrooks near their source is limited by natural ecological processes, rather than anthropogenic effects (G.W. Minshall, ISU, pers. comm. w/C. Mebane. 1/21/98; *Anderson T.M and N.H Anderson 1995. The insect fauna off spring habitats in semiarid rangelands in Central Oregon. Journal of the Kansas Entomological Society 68(2):65-76; Erman and Erman 1995. Spring permanence, drought, and Trichoptera richness, Ibid. 50-64*). Bioassessment is based on evaluation of the overall biological community, not a pollutant by pollutant approach. Macroinvertebrate diversity and abundance increased with distance downstream from the warm springs source, and multiple age classes of rainbow trout and shorthead sculpin were present. These indicate unimpaired biological conditions.	#3
17040216	2155	Birch Creek	Blue Dome to Reno Ditch	#61-Stream suffers pollution and degraded conditions caused by livestock grazing and dewatering.	No supporting information included to back up comment. Note that livestock grazing does occur in the drainage, however macroinvertebrate and fish data indicate cold water biota and salmonid spawning beneficial uses are supported. Dewatered segment of Birch Cr from Reno ditch to playas remains on list pending assessment of attainable uses.	#1

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040217	2146	Dry Creek	Diversion to Wet Creek	#61-Stream suffers pollution and degraded conditions caused by livestock grazing and dewatering.	De-listing corrects geographic mistake from 1996 list. Dry Creek flows toward the Little Lost River, it is not a tributary to Wet Creek. The segment "Diversion to Wet Creek" is actually an underground pipeline to a hydro plant.	#3
17040217	2147	Dry Creek	Headwaters to Diversion	#61-Stream suffers pollution and degraded conditions caused by livestock grazing and dewatering.	No supporting information included to back up comment. Note that livestock grazing does occur in the drainage, however macroinvertebrate and fish data indicate cold water biota and salmonid spawning beneficial uses are supported.	#3
17060201	3029	Squaw Creek	Forest boundary to Salmon River	#90 - Similar comments as on Thompson Cr (WQLSEG 3031)	See response to Thompson Cr. Comments.	#3

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060201	3031	Thompson Creek	Headwaters to Salmon River	#90, from pp. 19-22. Argues that salmonid spawning (SS) beneficial uses not supported citing from but not providing, internal USFS correspondence and unpublished ESA consultation documents with NMFS. Quoted conclusions from NMFS biological opinion that Thompson and Squaw Cr watersheds are in a poor habitat condition for spawning and rearing chinook salmon. Basis for poor ratings included limited pool frequencies and surface fine sediments in Thompson Cr. were reported to exceed guidelines for anadromous fish spawning habitat. Stream is threatened by a serious emerging acid mine drainage situation developing at the Thompson Creek Mine (TCM). DEQ BURP temperature data (16°C) shows stream does not meet SS criteria. Lengthy comments conclude that ample data exists demonstrating water quality and habitat problems in these waters.	Critically re-evaluated DEQ, other relevant data considered in this assessment, and reviewed information received subsequently. Stream conditions and mine operations have received much scrutiny in recent years, thus, much more biological information is available than for most streams. Descriptive USFS conclusions (e.g. watershed and stream ratings of poor) are difficult to interpret within the context of Clean Water Act and Idaho water quality standards (WQS). Idaho WQS do address excess sediment in amounts that impair beneficial uses; i.e. an impaired beneficial use must be documented before they can be considered excess. The biological condition of the stream is the primary consideration to determine if beneficial uses are supported.	#5 New Boundary: Scheelite Mill site to mouth

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060201	3031	Thompson Creek	Headwaters to Salmon River	#90, from pp. 19-22 (continued).	Data evaluated to make this assessment included four BURP survey sites, 1995 DEQ electrofishing survey data, IDFG 1994 snorkel survey, semi-annual macroinvertebrate collection above and below TCM discharges, and chemical monitoring data from 1993-1996 collected from above and below TCM discharges. Data subsequently received and reviewed to evaluate comments include 1998 draft TCM supplemental EIS, 1997 chemical monitoring data, and 1996 and 1997 macroinvertebrate and fish electrofishing surveys from discharge locations. Commentor implied DEQ had not analyzed trends to determine whether stream was threatened. While not reported in draft 303(d) report, 17 biological record and five year chemical record were evaluated for assessment., Biological record shows no evidence of declining trends; the chemical record is inconclusive. Draft EIS evaluates trend data and predicts long term water quality conditions based on various alternatives for managing potential acid mine drainage problems. No action alternative would result in degraded water quality conditions within the next 310 years, other alternatives would protect water With the exception of one location on Thompson Cr, all biological condition indicators were favorable.	#5 New Boundardy: Scheelite Mill site to mouth

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060201	3031	Thompson Creek	Headwaters to Salmon River	#90, from pp. 19-22 (continued).	Macroinvertebrate communities were abundant, diverse, and had strong representation by generally pollution intolerant taxa. Sediment and metals sensitive fish were well represented in all surveys. The sole exception is the segment of Thompson Cr below discharges from the abandoned Scheelite Jim mill. The macroinvertebrate score was lower at this site than elsewhere (3.1 vs 4.06-5.32), likely because of substrate armoring by the clearly visible iron hydroxide coating. This site had originally been promoted to fully supporting cold water biota status based on 1994 IDFG snorkel fish surveys. However on re-evaluation, considering evidence of specific impacts at that survey site, conclude that fish occurrence in the general vicinity may not be representative of this short segment. Site status for location 95EIROA105 should be NV rather than FS 16°C temperature reading from BURP site 97SCIROA37 is from a different stream with the same name.	#5 (New boundardy: Scheelite Mill site to mouth)

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	**WQLSEG**	**WATER BODY**	**BOUNDARY**	**PUBLIC COMMENT**	**RESPONSE**	**DECISION**
17060201	3036	Salmon River, Yankee Fork	Headwaters to Jordan Creek	#90, from pp. 22-23. Argues that salmonid spawning (SS) beneficial uses not supported citing from but not providing, internal USFS correspondence and unpublished ESA consultation documents with NMFS.	The comments quote descriptions of poor watershed or stream conditions, most are narrative conclusions. Our salmonid spawning evaluation approach has been changed in response to several comments (e.g. # 59, 76, 98, see also Chapter 2). This re-evaluation changed the salmonid spawning support status on a portion of this segment of the Yankee Fork, wherein the segment from Jordan Cr to Fourth of July Cr is rated as not fully supporting salmonid spawning based upon ambiguous salmonid species age class data and low habitat conditions score.	#5 New boundary: Fourth of July Creek to Mouth
17060201	3042	Stanley Lake Creek	Headwaters to Valley Creek	#98 at p.12. Site rationale on database printout of "not assessed" is inconsistent with MBI and HI scores.	Printout did not include full text of assessment. Site 95EIROA72 excluded from the stream assessment due to its proximity to Stanley Lake outlet. Research indicates that full community potential is unlikely to occur, but will occur with increasing distance from the outlet. Thus, the pattern of scores for this stream are considered indicative of natural ecological processes limiting community development rather than impaired conditions (*Robinson, C.T. and G.W. Minshall. 1990. Longitudinal development of macroinvertebrate communities below oligotrophic lake outlets. Great Basin Naturalist 50: 303-311*)	#3

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060204	3061	Kirtley Creek	BLM boundary to Lemhi River	#90 - Exceeds daily average temperature standards	See Chapter 3, temperature strategy. Infrequent exceedance of a numeric standard does not automatically mean that beneficial uses are not supported and standards violated.	#3
17060204	3063	Geertson Creek	BLM boundary to ditch	Same as #98, Big Eightmile Cr comment.	Same as Big Eightmile Cr response	#3
17060204	3065	Bohannon Creek	BLM boundary to Lemhi River	#90 - Exceeds daily average temperature standards	See Chapter 3, temperature strategy. Infrequent exceedance of a numeric standard does not automatically mean that beneficial uses are not supported and standards violated.	#3
17060204	3065	Bohannon Creek	BLM boundary to Lemhi River	Same as #98, Big Eightmile Cr comment.	Same as Big Eightmile Cr response	#3
17060204	3070	Sandy Creek	BLM boundary to Lemhi River	#90 - Exceeds daily average temperature standards	See Chapter 3, temperature strategy. Infrequent exceedance of a numeric standard does not automatically mean that beneficial uses are not supported and standards violated.	#3
17060204	3070	Sandy Creek	BLM boundary to Lemhi River	Same as #98, Big Eightmile Cr comment.	Same as Big Eightmile Cr response	#3
17060204	3078	McDevitt Creek	Headwaters to BLM boundary	Same as #98, Big Eightmile Cr comment.	Same as Big Eightmile Cr response	#3
17060204	3084	Little Eightmile Creek	Forest Boundary to Lemhi River	Same as #98, Big Eightmile Cr comment.	Same as Big Eightmile Cr response	#3
17060204	3086	Big Eightmile Creek	Forest Boundary to Lemhi River	#98 at p.19 -- Lemhi subbasin assessment reported stream was not meeting beneficial uses and TMDL was required, yet stream recommended for de-listing. Idaho should consider findings of SBA in preparation of final list.	Lemhi SBA was prepared prior to draft 303(d) list (3/98). Conclusions were based upon an earlier version of the Idaho Water Body Assessment Guidance in which Big Eightmile Cr did not meet habitat condition guidelines. The current WBAG is based primarily upon biological conditions, habitat conditions are presumed adequate if desired biological condition thresholds are met(see chapter one).	#3

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - DE-LISTED						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060204	3093	Eighteenmile Creek	BLM boundary to Lemhi River	#90 - Exceeds daily average temperature standards	See Chapter 3, temperature strategy. Infrequent exceedance of a numeric standard does not automatically mean that beneficial uses are not supported and standards violated.	#3
17060204	3093	Eighteenmile Creek	BLM boundary to Lemhi River	Same as #98, Big Eightmile Cr comment.	Same as Big Eightmile Cr response	#3

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17040202	7610	Sheridan Creek	Yale-Kilgore road to Island Park Reservoir	75 - Stream does not support salmonid spawning (SS) beneficial use. Included supporting information from fish population surveys indicating that rainbow trout occur above Yale-Kilgore road but not below. Also included temperature data showing SS criteria not met.	On 9/27/98 DEQ crew surveyed fish populations upstream of and in the segment from Yale-Kilgore road to its mouth in an effort to confirm or refute the comment. Results were consistent with comments. Multiple size classes of rainbow trout were captured in Sheridan above the Yale-Kilgore road. Three downstream locations were surveyed, suckers and shiners only fish species captured. One location had no fish. See general comment on salmonid spawning temperature criteria exceedances.	#4
17040214		Ditch Cr		#106 - Stream was BURPed, categorized as not supporting CWB beneficial use, but were not included on draft list.	Conclusions were based upon an earlier version of the Idaho Water Body Assessment Guidance in which the stream did not meet habitat condition guidelines. The current WBAG is based primarily upon biological conditions, habitat conditions are presumed adequate if desired biological condition thresholds are met.	#2
17040214		Idaho Cr		#106 - same comment as Ditch Cr.	See Ditch Cr. comment response.	#2
17060201		Jordan Cr		#90 at p.5 - Jordan Cr is an unlisted, designated bull trout water with no temperature data provided.	Comment is accurate but irrelevant to whether stream should be included under 303(d)	#2
17060204		Lemhi River	Source to mouth	#98 at p.19-- Data In Lemhi Subbasin Assessment (SBA)indicate criteria violations for coliform, yet stream was not included on draft list. All data presented in SBA should be considered in preparation of final list.	Stream not included on draft list due to recent receipt of pathogen data. Review of SBA indicates WQS for fecal coliform not met throughout the length of the mainstem Lemhi River.	#4

IDAHO FALLS REGIONAL SPECIFIC COMMENTS AND RESPONSES - GENERAL						
HUC	WQLSEG	WATER BODY	BOUNDARY	PUBLIC COMMENT	RESPONSE	DECISION
17060204		Mulkey Cr	Not specified	#98 at p.19 -- Lemhi subbasin assessment reported stream was not meeting beneficial uses and TMDL was required, yet stream recommended for de-listing. Idaho should consider findings of SBA in preparation of final list.	Lemhi SBA (2/98) conclusions were based upon an earlier version of the Idaho Water Body Assessment Guidance in which Mulkey Cr did not meet habitat condition guidelines. The current WBAG is based primarily upon biological conditions, habitat conditions are presumed adequate if desired biological condition thresholds are met (see chapter one).	#2
17060204		Withington Cr, Harmony Fork	Headwaters to Withington Cr	#98 at p.19 - Data in Lemhi SBA indicates water quality standards not met.	Lemhi SBA conclusions based upon a single water chemistry sample, no biological monitoring available from this reach. Data inadequate to evaluate status.	#2

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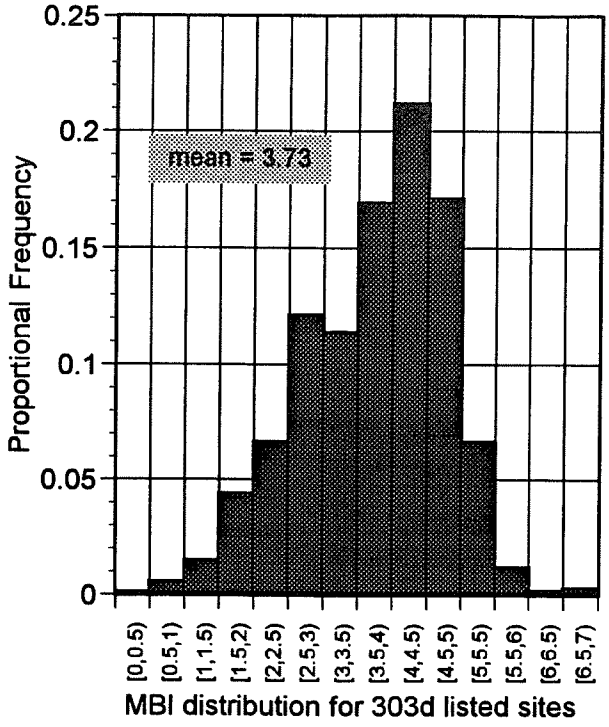

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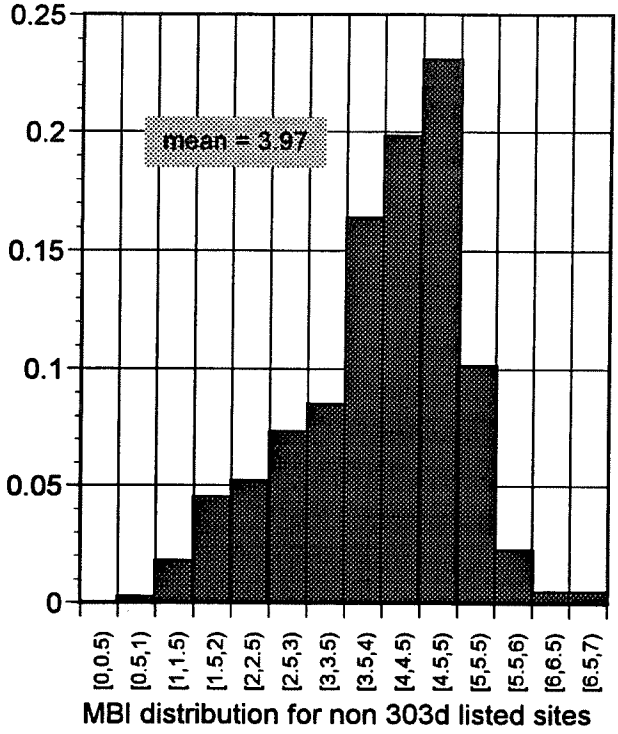

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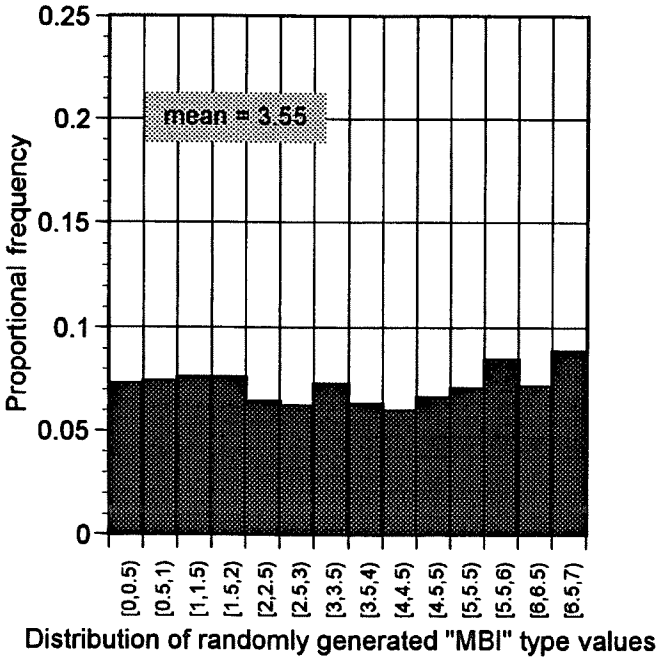

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Figure 4.1. Comparison of frequency distributions of macroinvertebrate biotic index (MBI) scores from sites located on streams included in the 1996 303(d) list (left), sites located on streams not on the 1996 list, and randomly generated "MBI" type values (bottom). Mean MBI values from the three groups are statistically different ($P < .001$ by ANOVA).

Results conclusively show that MBI values do not randomly occur. Instead, MBIs reflect the broad range of environmental conditions that occur in Idaho streams. These distributions show that the *range* of MBI scores from streams either on or off the 1996 list were similar, but lower scores occurred more frequently on 303d listed streams. Further, these results support the conclusion that a significant proportion of streams included on the 1996 303(d) list have favorable biological conditions, indicating high quality water for aquatic life exists in these locations.

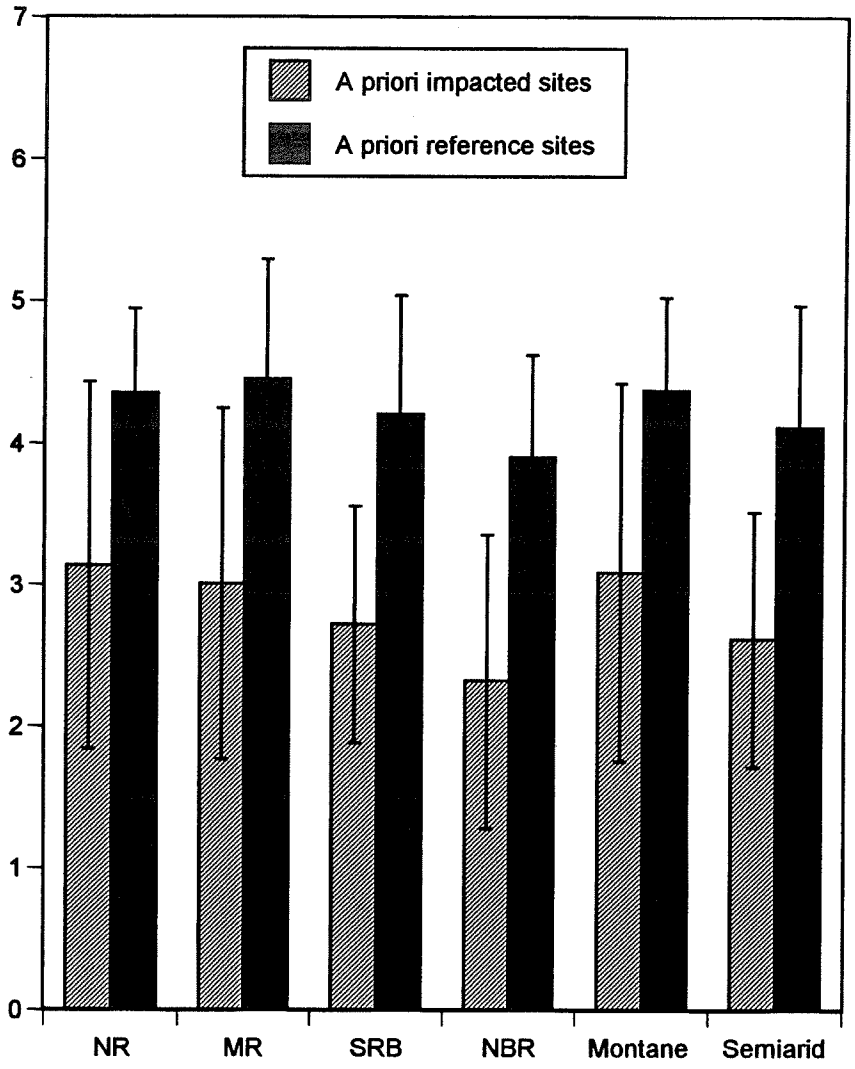


Figure 4.2. Comparison of mean MBI scores from locations selected *a priori* as least-impacted or disturbed by regional biologists, grouped by ecoregions. Error bars show standard deviation of the mean. Small ecoregions with too few *a priori* sites to make meaningful comparisons are added in the Montane (Wasatch Uinta Mountains, Blue Mountains) or Semiarid (Columbia Basin, Wyoming Basin) super-region groups respectively.

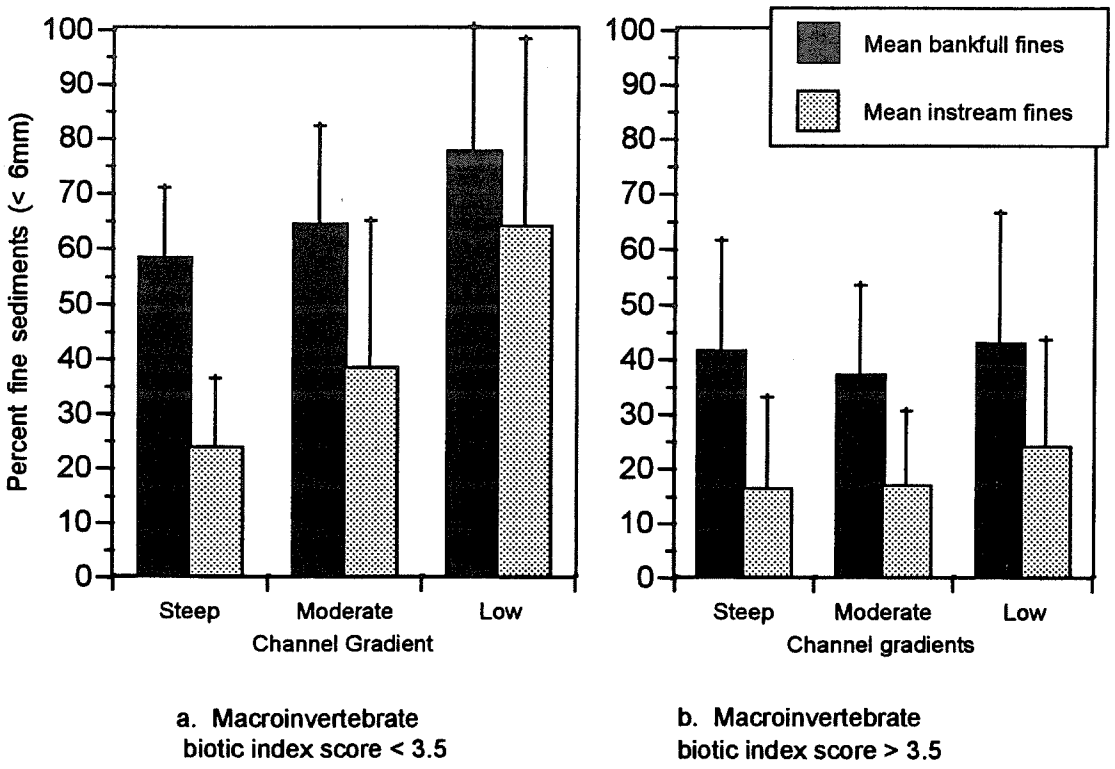


Figure 4.3. Mean percentages of stream channel substrates composed of fine grained sediments grouped by macroinvertebrate biotic index (MBI) scores, stream gradients, measured by submerged instream and bankfull channel widths.

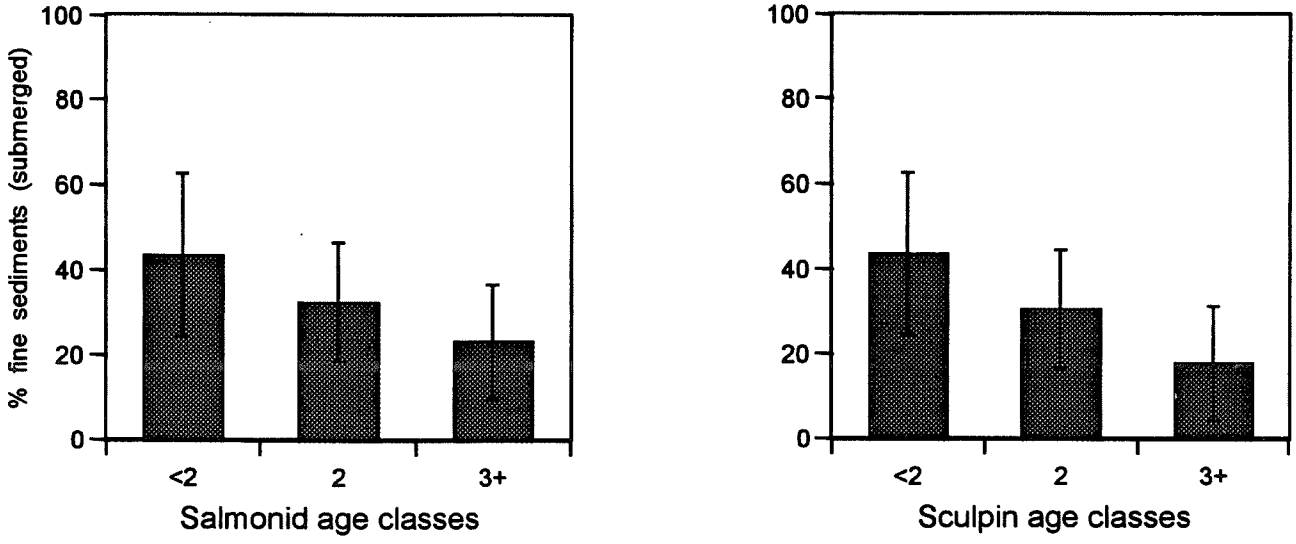


Figure 4.4. Mean salmonid and sculpin age classes occuring in 100m reaches compared with ranges and percentage of the submerged channel widths covered with fine-grained (<6mm) sediments. Error bars show standard deviation.

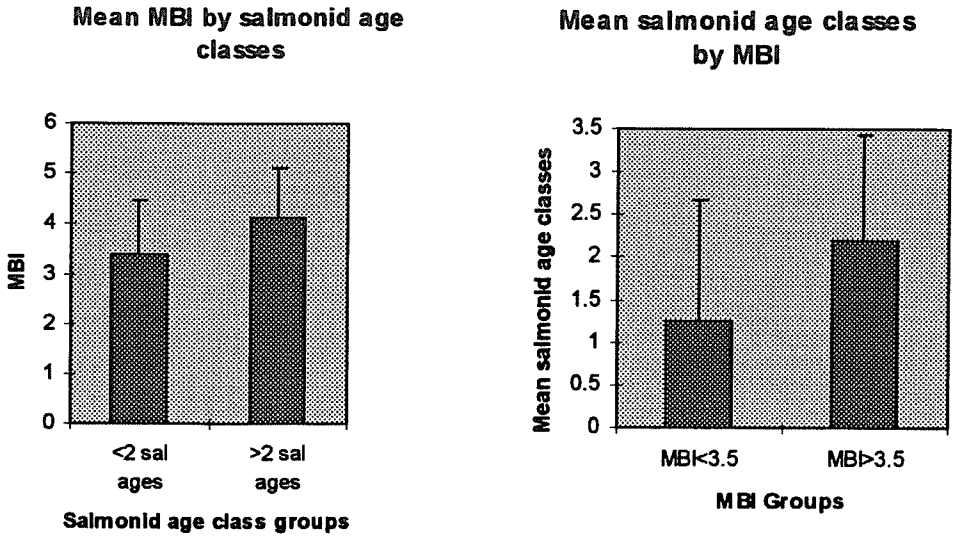


Figure 4.5. Association between occurrence of salmonid age classes and macroinvertebrate biotic index (MBI) from 160 locations in central and eastern Idaho

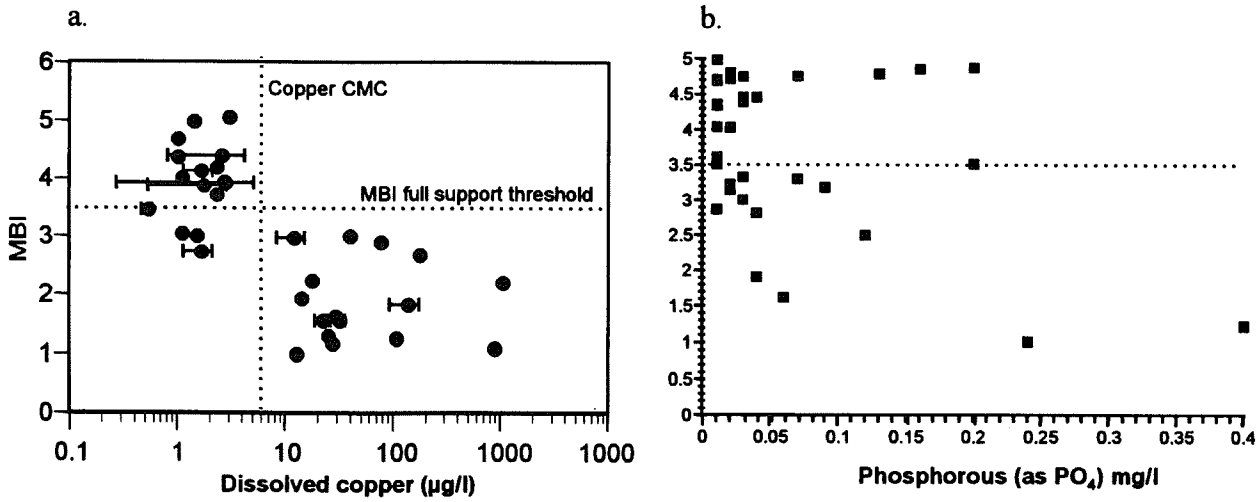


Figure 4.6. Relationships between copper concentrations (a), phosporous (as PO_4) (b), and MBI. Data are from the Panther Creek area of central Idaho and the Twin Falls area of southern Idaho respectively. Dashed lines show the approximate acute copper standard ($\approx$ 6 µg/l) and the MBI full support threshold. Phosphorous has no numeric water quality standard.

Figure 4.7. Section 2330 Salmonid Spawning Support Status Determination

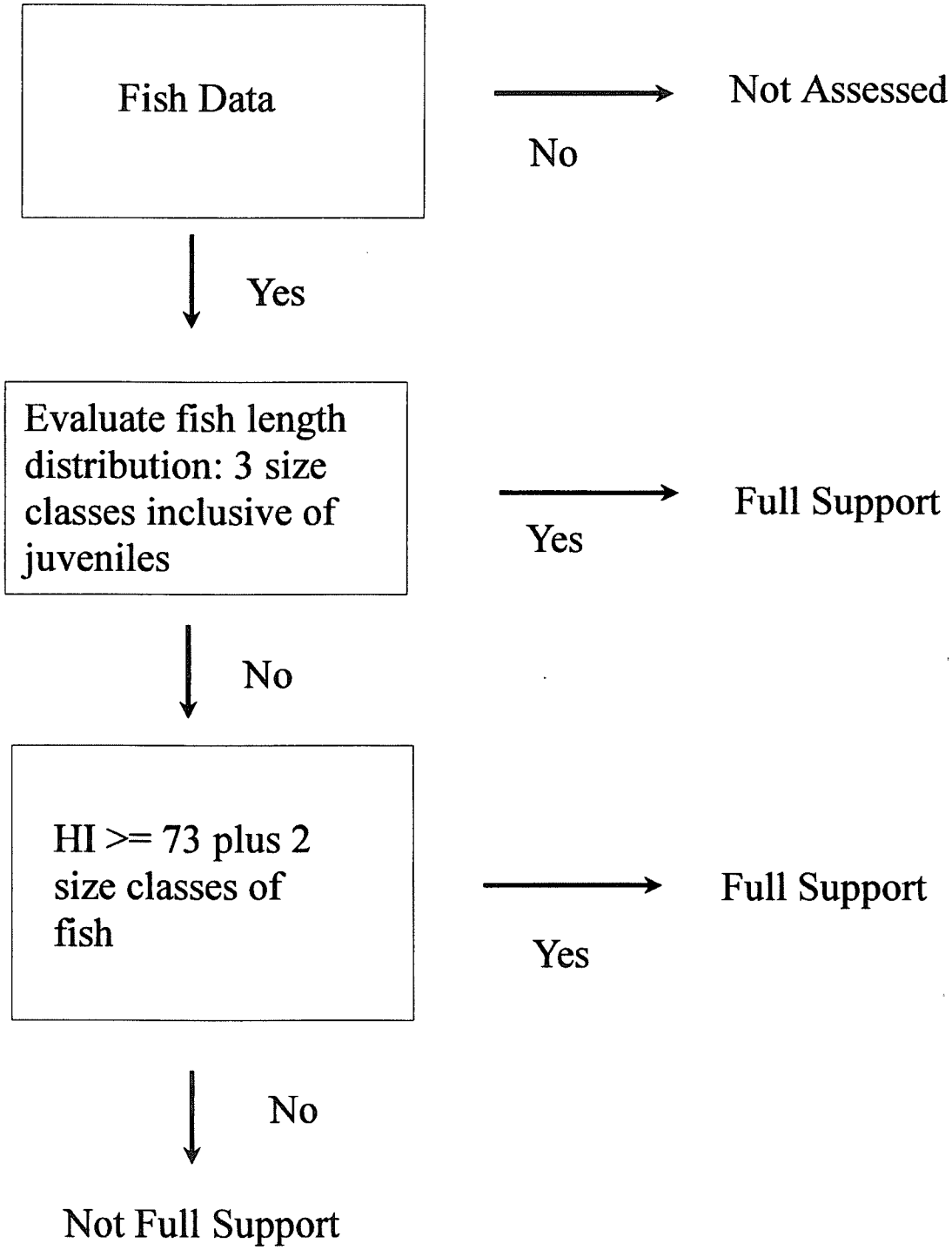
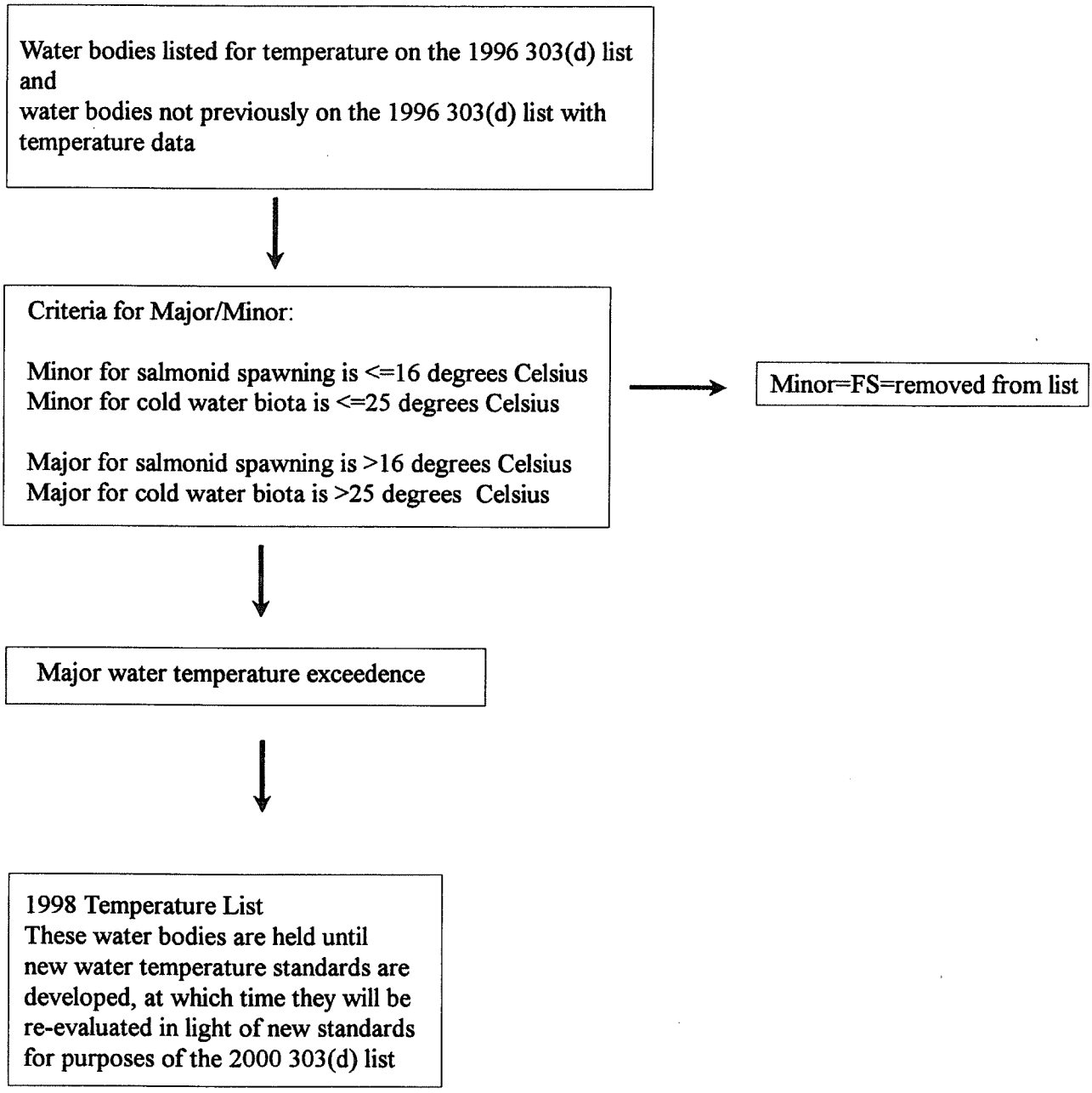


Figure 4.8 Decision process for cosidering major/minor water temperature exceedances.



CHAPTER FIVE

Idaho Administrative Record

IDAHO DIVISION OF ENVIRONMENTAL QUALITY
WATER QUALITY ASSESSMENT AND STANDARDS BUREAU
ADMINISTRATIVE RECORD
1998 303(d) LIST

I. FEDERAL GUIDANCE DOCUMENTS

A. Environmental Protection Agency

1. Revision to Rapid Bioassessment Protocols for Use in Streams and Rivers: Periphyton, Benthic Macroinvertebrates, and Fish. EPA 841-D-97-002. July 1997 Draft.
2. Memo from Geoffrey Grubbs, Director, Assessment and Watershed Protection Division, U.S. EPA re: Guidance for 1994 Section 303(d) Lists, November 26, 1993.
3. Memo from Geoffrey Grubbs, Director, Assessment and Watershed Protection Division, U.S. EPA re: Approval of 303(d) Lists, Promulgation Schedules/Procedures, Public Participation, October 30, 1992.
4. Memo from Geoffrey Grubbs, Director, Assessment and Watershed Protection Division, U.S. EPA re: Supplemental Guidance on Section 303(d) Implementation, August 13, 1992. (A copy is included on Guidance for Water Quality-based Decisions: The TMDL Process, U.S. EPA, April 1991.
5. Guidance Document for Listing Water bodies in the Region 10 303(d) Program. US Environmental Protection, Region 10, November 1995.
6. Memo from Robert H Wayland III, Director, Office Wetlands, Oceans and Watershed, re: National Clarifying Guidance For 1998 State and Territory Section 303(d) Listing Decisions, No date shown.
7. Memo from US Environmental Protection Agency, Region 10, re: Development of Administrative Records and Dockets to Support Agency Decisions Under Clean Water Act Sections 303(d) -- The TMDL Program, No date shown.

B. Clean Water Act - Section 303(d)

II. STATE OF IDAHO LEGISLATION AND REGULATION

A. Idaho Code Section 39-3601 *et seq.*

B. Idaho Department of Health and Welfare Rules and Regulations, Title 1, Chapter 2, "Water Quality Standards and Wastewater Treatment Requirements."

III. STATE OF IDAHO GUIDANCE DOCUMENTS

A. Beneficial Use Reconnaissance Project

1. Workplans
   a. 1997 Beneficial Use Reconnaissance Project Workplan. Idaho Division of Environmental Quality Technical Advisory Committee. July 1997.
   b. Beneficial Use Reconnaissance Project, 1998, Wadable Streams Workplan. Idaho Division of Environmental Quality Technical Advisory Committee. May 1998.
   c. Beneficial Use Reconnaissance Project, 1998, Lake and Reservoir Workplan. Idaho Division of Environmental Quality Technical Advisory Committee. June 1998.
   d. Beneficial Use Reconnaissance Project, 1998, Rivers Workplan. Idaho Division of Environmental Quality Technical Advisory Committee. July 1998.
2. Field Guidance Documents - see 1996 red 3-ring binder
3. Laboratory QA/QC Reports
4. Field Sheets (memo)
5. Audit Forms of BURP Field Teams
6. QA/QC Guidance Documents
   a. Procedures and Guidelines for QA/QC of 1995 Beneficial Use Reconnaissance Project Data. Idaho Division of Environmental Quality BURP Technical Advisory Group. September 1995
   b. QA/QC Manual Beneficial Use Reconnaissance Program Wadable Streams 1998. Richard Lee. July 1998.

B. Water Body Assessment Guidance

a. 1996 Water Body Assessment Guidance - A Stream to Standards Process. Idaho Division of Environmental Quality. August 1996.
b. Memo from Michael McIntyre (DEQ) to Regional Supervisors (DEQ) re: Salmonid Spawning Beneficial Use Support Determination, October 26, 1998.
c. Code Explanation Sheet for Delist Decision Report
d. E-mail to Michael McIntyre (DEQ) from Gail Ewart (DEQ) re: Mileage Calculation for Various Aspects of 1998 Draft 303(d) List, July 7, 1998.
e. Memo to DEQ Central Office 303(d) Team from Michael McIntyre (DEQ) re: Boundary Changes to 1998 303(d) List, March 10, 1998.
f. Memo to DEQ Water Quality Assessment & Standards Bureau from Michael McIntyre, Bureau Chief, re: Citations to Answer Questions, July 17, 1997.

C. 303(d) Assumptions

D. Reference Fish and Macroinvertebrate Voucher

E. Idaho State University BURP Reports

1. Biological Metric Development for the Assessment of Nonpoint Pollution in the Snake River Ecoregion of Southern Idaho, 1990-1991 Final Report. Christopher T. Robinson and G. Wayne Minshall. March 1992.
2. Refinement of Biological Metrics in the Development of Biological Criteria for Regional Biomonitoring and Assessment of Small Streams in Idaho, 1991-1992 Final Report. Christopher T. Robinson and G. Wayne Minshall. March 1992.
3. Biological Metrics for Regional Biomonitoring and Assessment of Small Streams in Idaho, Final Report. Christopher T. Robinson and G. Wayne Minshall. March 1995
4. Regional Assessment of Wadable Streams in Idaho, USA. Christopher T. Robinson and G. Wayne Minshall. Great Basin Naturalist 58(1):54-65 1998.

F. Draft 1998 303(d) List

G. 1998 303(d) List

H. Water Quality Management Plan, see reference appendix A, Continuing Planning Process

I. 1992 305(b) Report

IV. SOLICITATION OF INFORMATION

A. Letter to Steve Huffaker, Idaho Fish and Game, from Larry Koenig, Assistant Administrator, regarding help in determining if sites are in full or not full support category.

B. E-mail to Bob Steed from Craig Shepard (Boise Regional Office) on meeting with BLM.

C. Letters regarding electrofishing data of streams and BURP data.

D. Letter to Lynne K. Stone, Boulder-White Clouds Council, from Chris Mebane, regarding the proposed 1998 list of water quality-limited Water bodies for Idaho. Attachment #1 includes criteria exceedances, Attachment #2 includes references cited in 1996 Appendix F, Attachment #3 includes table of summary data submitted to evaluate, Attachment #4 includes a list of names the letter was mailed to.

E. All other letters, data or documents exchanged between DEQ and other federal and state agencies and members of the public that were used in preparing the 303(d) list.

V. PUBLIC COMMENTS/REQUESTS AND RESPONSE

A. Public Comments: summarized comments by category

B. Public Notices: Memo of the public notifications of 1997 request for comment on the 1996 3030(d) list, newspaper clippings.

C. Public Information Request log and 303(d) request log

D. Letter to Scott Brown, Idaho Conservation League regarding request for electronic information.

E. Memo on meeting with Committee for Idaho's High Desert,

F. Map of Southwestern public review and comment

G. Public comments (1-117) white 3 ring binder

H. Letter to Liz Sedler, Panhandle Basin Advisory Group from Darrren Brandt, DEQ Twin Falls Regional Office regarding public records request on stream temperature data collection during 1995, 1996 and 1997.

VI. OTHER

A. 1994 EPA's Decision Document identifying the list of water quality limited Water bodies for the State of Idaho.

B. Response To "General Comments" Concerning EPA's 1994 303(d) List For The State of Idaho, Appendix "A". US Environmental Protection Agency, Region 10, October 7, 1994.

C. Responsiveness Document Matrix For The 1994 303(d) List For The State of Idaho, Appendix "B". US Environmental Protection Agency, Region 10, October 7, 1994.

D. The 1994 303(d) List For the State Of Idaho, Appendix "C". US Environmental Protection Agency, Region 10, October 7, 1994.

E. The Water Monitor. US Environmental Protection Agency, Region 10, April-May-June 1998.

F. DEQ 1998 303(d) presentation to EPA/Seattle, Thursday, May 28, 1998

G. Guidance Document- The Use of Existing and Readily Available Biological and Habitat Data for Listing Waters on the Delaware 1998 303(d) List, US Environmental Protection Agency, Region III for State of Delaware, December 22, 1997.

H. All other documents used by DEQ in preparing the 303(d) list, including but not limited to, documents and data received from the Idaho Department of Lands and the Idaho Department of Fish and Game, BLM and the National Forests and reports prepared by private entities. Some of these documents are located in the DEQ regional offices and are available upon request.

DEQ-300, 83265, 1/99, Cost Per Unit: $16.81

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