MDT/FWP Task Force

Recommendations Report

Prepared by

Montana Fish, Wildlife & Parks

and

Montana Department of Transportation

September 1997

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Executive Summary

The Fisheries Task Force, appointed by the Directors of Montana Fish, Wildlife & Parks (FWP) and the Montana Department of Transportation (MDT), worked together to identify and develop recommendations on how the two department s can work together to resolve issues, concerns and take advantage of opportunities where roads and streams are in conflict.

This report presents eight recommendations from the Task Force.

Recommendations 1-3 are procedural in nature, will occur early in transportation project development and will facilitate information exchange between the agencies.

Recommendation 4 establishes criteria for temporary crossings during transportation project construction.

Recommendation 5 is to establish a permanent FWP/MDT fisheries group to manage on-going tasks and to evaluate and modify interagency procedures.

Recommendation 6 will continue the effort to further evaluate and complete fish passage criteria guidelines which are particularly lacking for Montana trout species.

Recommendation 7 is to develop and implement a series of (one-time only) meetings between respective MDT Maintenance Area personnel and Regional FWP fisheries personnel to interact on the local level. (This differs from Recommendation 1 which is intended to be on-going relative to planned construction projects.)

Recommendation 8 is to use a permanently established group to identify, prioritize and nominate Remediation projects.

These recommendations constitute achievement of the majority of the 16 objectives established at the outset by the Task Force. The exception is the continuing work relative to maintenance activities and the fish passage criteria for western Montana-type stream conditions.

Introduction

The FWP/MDT Fisheries Task Force was implemented May 1, 1995, jointly by the Director's of Montana Fish, Wildlife & Parks (FWP) and the Montana Department of Transportation (MDT).

Members of the Task Force, as originally implemented, consisted of the following:

FWP- Phil Stewart, Miles City, Co-Chair
George Liknes, Great Falls
Scott Rumsey, Kalispell
Don Peters, Missoula
Ken Chrest, Helena Consultant

MDT- Gordon Stockstad, Helena, Co-Chair
George Swartz, Missoula
Mark Traxler, Helena
Carl Peil, Helena
Joe Kolman, Helena
Ben Dean[1], Helena

As stated by the Department Directors, the Task Force was formed in recognition of the importance of Montana's fishery resources and transportation systems for the future of the state. The intent of the Task Force was to "work on those activities where fisheries and transportation systems come together and result in specific issues, concerns and opportunities...this group will develop recommendations on how our department can work together to resolve these issues, concerns and take advantage of the opportunities." It was also intended that the group be in place at least two years to take action on suggested topics such as loss of fish habitat, fish passage, road maintenance practices, bridges vs. culverts, safety and economics and threatened and endangered species. The Task Force was encourage to expand on this list with their own topics and priorities.

The group conducted their first meeting on June 27, 1995 and has generally met on a bi-monthly basis over the past two years. In addition to adding a representative from MDT's Construction Bureau to the Task Force, advisory (non-voting) members Kirk Eakin and Dick McIntyre from MDT and Glenn Phillips from FWP were recognized and have continued to participate throughout the process. Marjore Blewett from MDT has assisted as facilitator and Liane Taylor from FWP has provided meeting minutes and formatted group documents.

[1] At the second meeting of the group (August 22, 1995), it was agreed to add one additional representative from MDT Construction. Also, participating in an advisory (non-voting) capacity, are Kirk Eakin and Dick McIntyre from MDT and Glenn Phillips from FWP.

The Task Force began by developing a Goal Statement and 6 general categories containing 16 specific objectives. The 16 objectives became the basis for determining priorities and allowed the group to systematically work toward agreeable recommendations for presentation to their respective Departments.

Much of the work has been completed and most of the objectives originally set forth by the Task Force have been accomplished; however, some of the objectives will require additional effort and resources. The Task Force has also determined that a continuing core group of representatives from both agencies should remain in place to follow through with the remaining work and to identify and resolve continuing and new issues.

This report contains a meeting summary, four written "Procedural Recommendations" developed and approved through consensus by the Task Force. Three of these procedures are essentially intended to provide for early coordination between the two agencies and to facilitate the exchange and gathering of information relative to transportation project development and stream and fisheries issues. The fourth written procedure addresses the construction of temporary facilities across or near streams or drainages. This report also identifies as "Continuing Recommendations", what the Task Force believes to be the next order or priority.

The Task Force hereby supports adoption of these recommendations by each agency.

FWP/MDT Fisheries Task Force

Goal and Objectives

Goal and Objectives for FWP/MDT Fisheries Task Force

Goal: Produce a consistent, cooperative and efficient approach to protect and enhance stream and associated fish and wildlife resources while providing safe, effective and efficient transportation systems.

Objectives:

1. Communication

   A. Develop procedures for early and continuing communication from preconstruction through construction and maintenance.
   B. Improve information exchange between biologists and engineers.
   C. Develop mutual understanding of each agency's needs.

2. Fish Habitat Protection

   A. Develop mutually agreeable fish passage criteria for both eastern and western Montana.
   B. Develop criteria to determine type of stream crossing (bridge, culvert, culvert extension) to be used.
   C. Increase consideration for fish habitat during project design based on identified needs.
   D. Define ways to decrease the need for channel changes.
   E. Minimize loss of habitat at bridges and longitudinal encroachments.
   F. Develop design criteria for routing of flood flows.

3. Road Maintenance

   A. Minimize entry of road sand into streams.
   B. Maintain vegetative cover in roadside ditches.
   C. Minimize habitat damage from beaver dam removals.

4. Project Scheduling

   A. Resolve conflicts from restrictive project scheduling.

5. Evaluation

   A. Evaluate key projects post-construction.
   B. Identify old projects in need of modification.

6. Training

   A. Identify training needed for personnel of both departments.

Recommendation #1

Procedure for Early Coordination

and

Review of Proposed Transportation Projects

Montana Department of Transportation and Montana Fish, Wildlife & Parks:
Procedure for Early Coordination and Review of Proposed Transportation Projects

Purpose

The purpose of this procedure is to establish a means to facilitate early communication, coordination and understanding between the Montana Department of Transportation (MDT) and Montana Fish, Wildlife & Parks (FWP), thereby assisting both agencies to better fulfill their respective programs, services and responsibilities to the people and resources of Montana.

Process

MDT's on-going construction program is determined and established based on the identified need to improve existing transportation facilities and available funding to accomplish those identified needs. MDT's Project Management System (PMS) planning guide identifies and schedules projects within each of the 5 MDT Districts approximately 2-5 years into the future. When proposed projects are identified and approved for programming, they enter the PMS and are scheduled based on priorities, type of project, available or anticipated funding and any other relevant considerations.

Project Field Meetings/Reviews

At least once each year, MDT environmental, design, construction and district staff will meet with the appropriate FWP Regional staff and SPA Coordinator to review MDT's most recent PMS project list. This meeting will be an opportunity for MDT headquarters and district staff to present FWP regional staff with new project proposals and status updates of projects already in the PMS. The meeting will be conducted in the appropriate MDT District or Area Office or the FWP Regional Office. Depending on seasonal conditions, on-site reviews of selected projects or segments of projects may also be conducted. The intent of the meeting is to identify as early as possible, prior to MDT's final scope-of-work, fisheries and other habitat issues and concerns relative to potential project impacts through the use of a checklist.

The MDT project/district biologist will be responsible for scheduling the meeting of their particular district in cooperation with the appropriate FWP Regional fisheries biologist. A list of proposed projects to be discussed will be provided in advance of the meeting(s). The list will include at least project type and location with beginning and ending milepost. A record of each meeting will be prepared and distributed to all participants.

Recommendation #2

MDT Criteria for Determining

Type of Stream Crossing to be Used

FWP/MDT Fisheries Task Force

MDT Criteria for Determining Type of Stream Crossing for Highway Projects

A. Information MDT Project Biologist would provide to FWP after the Preliminary Field Review.

1. Scope and location of proposed project.
2. Proposed year and month of construction.
3. Stream crossing locations.
4. Existing information: culvert/bridge dimensions and condition of culvert or structure.
5. Alternatives being considered at each crossing.
6. A timeline by which MDT needs preliminary information back from FWP for design consideration.

B. Information FWP would provide to MDT before preliminary design.

1. Species present by stream
2. Is fish passage currently being provided and is it necessary or desired for the future. Is there a current facility.
3. Critical habitat upstream, downstream, and in vicinity of stream crossing (spawning areas).
4. Passage requirements (if know or available) for adults, juveniles, spawners, resident, bedload, time of year and for what length of time, permissible delays in passage (ie for a two-day peak on a hydrograph).
5. Species swimming abilities (if known or available) ie. sustained speeds/lengths and darting speeds/lengths, and minimum depths and maximum velocities for passage.
6. Preliminary recommendations for the criteria that needs to be met at each stream crossing for fish passage. What are FWP's concerns.

C. After preliminary design, MDT can provide the following if needed for FWP to make a decision on fish passage.

1. Existing stream slope above, below, and through/under road crossing.
2. Expected min/max/avg velocities, depths and lengths through or under crossing.
3. Core log data adjacent to crossing.
4. Existing stream and stream bank condition/stability above and below crossing (photos, etc).

Recommendation #3

FWP Criteria to Determine Type of Stream Crossing to be Used

FWP/MDT Fisheries Task Force
FWP Fisheries Criteria Related to Objective 2B
"Develop Criteria to Determine Type of Stream Crossing to be Used"

The following criteria will be considered as general guidelines and starting points in project planning. For specific sites and projects either FWP or MDT may want to incorporate different provisions. These exceptions will be negotiated between the parties on a case by case basis.

The agency responsibilities as outlined in the MDT Stream Crossing Criteria memo will be adopted as guidelines by both agencies. Standard forms will be developed to facilitate and expedite providing this information to each respective agency. Accompanying this information will be a small glossary which defines all pertinent acronyms. Any design changes by either agency from the following rules which would potentially impact fisheries or hydrologic values during the planning/designing phase of the project will be promptly communicated in a formalized process as soon as the information is known.

I. Criteria Related to Choosing Type of Stream Crossing

A. To preserve high quality habitat, bridges will be used on spring creeks with a classification of Value Class I, Highest-Value Fishery Resource. Streams of Value Class II, High Priority Fishery Resource and non-spring creeks of Value Class I, will receive special consideration regarding the type of crossing, but not necessarily a bridge[2].

B. For perennial or ephemeral streams with spawning migrations of weak swimming fish, such as channel catfish, walleye, sauger, and northern pike, existing bridges will only be replaced with other bridges. As additional field data is obtained, other species and/or waters may be proposed as additions to this list.

II. Criteria Related Only to Bridge Installations

A. Bridges will be designed to adequately pass bedload and maintain natural channel function above and below the crossing.

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[2] Lists of streams requiring bridges to be replaced with bridges and Value Class I and II streams are located in Appendices A and B.

B. Channels will be maintained in a natural configuration and will not be converted to trapezoidal shapes.

C. Pier location to be in harmony with stream so that there is not a pier in the thalweg and potential for scour at the piers is reduced. Piers should also be placed to allow for floater safety, debris passage and ice passage.

D. Rip-rap should be keyed and kept to the minimum necessary to protect the bridge. Rip-rap in the middle of the channel will be avoided and will not reduce channel cross-sectional area. A deeper key will be used to hold rip-rap in place instead of extending rip-rap toward the center of the channel.

III. Criteria Related Only to Culvert Installation

A. Where fish passage may be an issue on a culvert installation or extension, FWP will designate the priority species and time of year passage is needed. MDT will provide the best data available on culvert and stream channel conditions at the site. This would typically include proposed culvert length, roughness, bottom depth, velocity profile, entry and exit conditions, flows, alignment and bed stability. Additional field data will be collected and negotiated when needed between both agencies.

B. For perennial streams, culverts should adequately pass bedload to maintain natural channel configurations.

C. Culverts, including embedded culverts, should be designed so that they adequately provide for fish passage following installation. If culvert becomes perched, or if for other reasons it does not provide needed fish passage, MDT will make a commitment to repair it within 12 months.

D. Where upstream fish passage needs to be prevented, MDT will do so by purposely perching culvert or by other means. FWP will provide information on a project by project basis.

IV. Criteria Related to Both Bridges and Culverts

A. Where T&E species, or Species of Special Concern are present at some part of their life history, MDT will utilize the highest design and construction standards at and near crossings. T&E species are currently present only in

the Kootenai River below Kootenai Falls, the Missouri River below Fort Benton, and the Yellowstone River below Intake.[3]

B. Use of guide banks and channel changes will be avoided unless no other practical alternatives exist. MDT Hydraulics will provide documentation and justification for exceptions.

C. When channel changes are necessary, the original channel configuration, such as length, slope, and shape will be maintained.

D. Full erosion control requirements for both bridges and culverts will be implemented before, during, and after construction until adequate vegetation has become established. All erosion controls will be removed once adequate vegetation has been established. These provisions will be aggressively enforced to the extent allowable by MDT. (Maintenance can remove erosion controls if they know where they are).

E. For Value Class I Streams, Highest-Value Fishery Resource waters, projects will provide for year around passage for both large (adult) and small (juvenile) fish. Crossing designs should include spawning passage and returns, as well as rearing and annual production outmigration when necessary.

F. Net economic value of an angler-day, as determined by Rob Brook's Contingent Valuation Assessment, may be used for comparisons when considering the added cost of more "fish friendly" alternatives on controversial projects.

[3]A list of Species of Special Concern is contained in Appendix C.

Recommendation #4

Detour, Haul Road or Ford Facilities Construction

Adjacent to Streams or Ephemeral Drainages

Detour, Haul Road or Ford Facilities Construction Adjacent to Streams or Ephemeral Drainages

General Provisions

Determine if the detour or haul road being constructed needs a bridge, culvert or ford.

Submit the following information for all installations:

A. A topographic map or sketch showing the features, elevations and location of the proposed facility.

B. The location to the nearest town and the Range, Township and Section of the requested facility.

C. Anticipated time of year and length of time the facility will be in place.

D. Anticipated average water flow during the time facility is in place.

E. Describe the method of installation and removal and the re-contouring of banks. Include methods of keeping construction materials from entering the stream channel or flowing water.

Ford Construction

A. Describe the type of ford to be constructed and material to be used for construction. Justify use of ford.

Bridge Construction

A. Design and submit for approval, as per standard specs or special provisions, all plans and calculations for Detour and Work Bridges.

B. Show the location and height of the anticipated high flow.

Culvert Installation

A. Show how culvert design will handle anticipated flow without overtopping the detour.

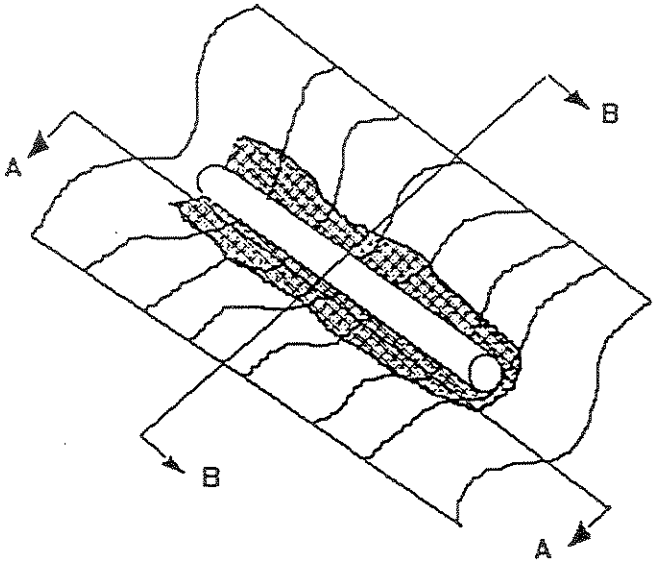
B. Design the installation to include the protection of the in slopes on both the upstream and downstream sides. A contour map and site sketch of the facility should include a provision for possible overtopping.

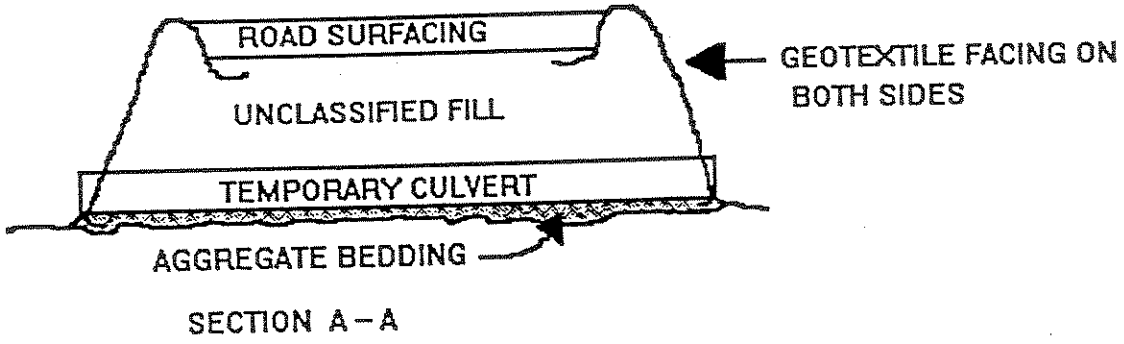
C. Bed culverts in clean gravel of sufficient depth to provide a smooth bed for the culvert to facilitate removal. The gravel is to extend to the edge of streambank vegetation or at least two feet beyond the waters edge, whichever is further.

D. Protect the upstream and downstream edges of the embankment with geotextile to prevent erosion of the side slopes.

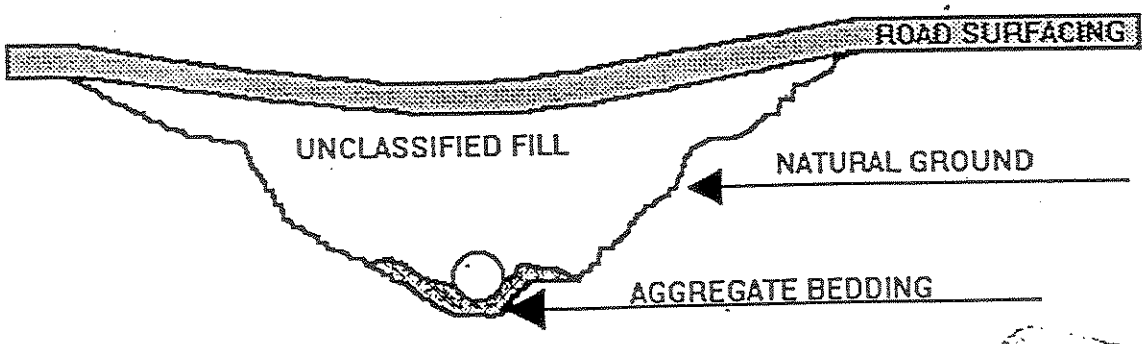
E. The attached drawings show a method of installation.

CULVERT DETAIL DRAWING





SECTION A – A



SECTION B – B

Note: Keep roads as low as possible with geotextile covering on both slopes.

Recommendation #5

Establishment of a Permanent

FWP/MDT Fisheries Group

Establishment of a Permanent FWP/MDT Fisheries Group

Over the past two years, the Task Force has achieved a majority of their originally identified objectives. Through the course of this effort, it has become obvious that a cooperative and continuing effort between both agencies will be necessary to implement, maintain, evaluate and modify the recommended procedures. Some of the original objectives relative to maintenance and western Montana fish passage criteria have not yet been fully achieved or concluded. It is also anticipated that new issues will likely continue to occur.

Recommendation

Therefore, the Task Force recommends that a "Core Group" of appropriate representatives from each agency be designated and maintained to identify and resolve continuing and new issues. This group should be made up of representatives from MDT Engineering, Maintenance and Environmental and fisheries representatives from FWP regions east and west of the Continental Divide and Headquarters. This group should meet at least annually and confer more frequently on a more informal basis to direct or evaluate the efforts of individual tasks.

Recommendation #6

Continued Effort to Develop a

Salmonid Passage/Procedural Criteria "Guide"

Continued Effort to Develop a Salmonid Passage/Procedural Criteria Manual

Objective 2.A.: *"Develop mutually agreeable fish passage criteria for both eastern and western Montana"* - The group has struggled with the best way to approach and achieve this objective. It is felt that this objective is now most pertinent and critical to western Montana due to fish species, habitat and dynamic and varied stream conditions. Eastern Montana streams and warmwater species have generally been addressed under the criteria developed of Objective 2.B., including the listed FWP Criteria IB. (Warmwater) Streams (Appendix C).

There are numerous studies and manuals that deal with various aspects relative to fish passage needs, hydraulics and so forth on a broad or regional basis, but not a single comprehensive manual that can be easily understood and in particular applied to trout species stream conditions by both biologist and engineer.

Therefore, the Task Force is presently considering the merits of hiring a mutually agreeable consultant, funded equally by both agencies, to examine four or five selected "fish passage" documents. The consultant would then make a recommendation on the feasibility and cost to produce a combined manual for Montana. This manual or guide could possibly complement and be used in conjunction with the draft "Chapter 15" of the AASHTO Model Drainage Manual currently being reviewed by the MDT Hydraulics Section.

Recommendation:

The Task Force recommends that there be a continued effort to develop a Salmonid Passage/Procedural Criteria Manual or guide for adoption and use by both agencies. This effort would be under the direction of the Task Force or a successor group.

Recommendation #7

FWP Regional/MDT Maintenance Area

Series of Statewide Meetings

FWP Regional/MDT Maintenance Area Series of Statewide Meetings

At a recent MDT Maintenance Chiefs' meeting, a presentation by FWP highlighted specific locations where winter maintenance road sanding has resulted in heavy sediment loads into adjacent streams. Though positive in their desire to correct such problems, the Maintenance Chiefs feel they are hampered by lack of funding and shortages of staff. The Task Force believes that an effort should be made to provide an opportunity for local meetings between MDT maintenance people and the FWP regional biologists so they can communicate about some of the local issues.

This would likely be a one-time only effort with a basic but flexible agenda. It would involve 6 to 8 meetings to include the 11 MDT Maintenance Areas and the 7 FWP Regions. The meetings would be an opportunity for local introductions; list of contacts; slide or video presentations of example "problem areas" prepared by FWP; discussion of chronic problems and possible solutions, e.g., beaver dams, accumulated sanding debris, maintenance practices, materials and constraints, identifying and nominating possible remedial projects; etc.

Recommendation:

The Task Force recommends developing an agenda, establishing a mutually agreeable schedule, and conducting a series of local meetings between Regional FWP biologists and MDT Maintenance Area staff. This would be an opportunity to identify problem areas at the local level and possibly generate effective solutions.

Recommendation #8

Identifying and Prioritizing

Remediation Projects

Identifying and Prioritizing Remediation Projects

Related to Recommendation 7, is the possible opportunity of using the Task Force successor group to identify and prioritize problem areas that may potentially be eligible for special funding. This may be an advantage over present processes for nominating projects of this type since it would be more systematic and involve input from both agencies and be based on fisheries resource and funding priorities.

Recommendation:

Establish a priority list of "trouble spots" and use the "Core Group" as a nominating body for future remediation projects potentially eligible for available special category funding.

Appendix A

List of Montana Value Class I and II Streams

MONTANA DEPARTMENT OF FISH WILDLIFE & PARKS
STREAM FISHERY EVALUATION BY RESOURCE VALUE
NOVEMBER 5, 1985

SEQUENTIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	*RV	SF	HS
AGF	3-22-0140-001	ARMSTRONG SPRING CREEK	ORIGINAL MOUTH	DEPUY'S DIVERSION DA	03S	09E	23	YELLOWSTONE RIVER SE	0.5	1	4	1
A6M	1-03-0400-000	BALL CREEK	MOUTH	SOURCE	25N	17W	24	SULLIVAN CREEK	8.0	1	4	1
451	3-22-0350-001	BEAR CREEK	MOUTH	DARROCH CREEK	09S	09E	19	YELLOWSTONE RIVER SE	11.7	1	4	1
AMF	3-01-0500-004	BEAVERHEAD RIVER	GRASSHOPPER CREEK	CLARK CANYON DAM	08S	10W	25	JEFFERSON RIVER	20.4	1	1	3
DBF	1-08-0680-001	BIG CREEK	MOUTH	1 KM ABOVE GLEELEHUM	33N	20W	22	N FK FLATHEAD RIVER	10.4	1	1	1
AJV	3-02-0425-000	BIG MOLE RIVER SEC 01	MOUTH	DIVIDE	03S	05W	21	JEFFERSON RIVER	79.7	1	1	2
AJW	3-02-0450-001	BIG MOLE RIVER SEC 02	DIVIDE	WISE RIVER	01S	09W	20	JEFFERSON RIVER	18.8	1	2	1
AHE	3-02-0450-002	BIG MOLE RIVER SEC 02	WISE RIVER	PINTLAR CREEK	01N	11W	34	JEFFERSON RIVER	50.4	1	3	1
AHD	3-02-0475-000	BIG MOLE RIVER SEC 03	PINTLAR CREEK	SKINNER LAKE	01S	14W	08	JEFFERSON RIVER	54.4	1	3	1
DHF	3-02-0500-001	BIG LAKE CREEK	MOUTH	NATIONAL FOREST	03S	15W	17	BIG HOLE RIVER	17.4	1	3	1
DTE	5-22-0495-003	BIGHORN RIVER SEC 02	TWO LEGGINS DIVERSIO	BIGHORN FISHING ACCE	02S	33E	20	YELLOWSTONE RIVER	30.7	1	1	3
DTF	5-22-0495-004	BIGHORN RIVER SEC 02	BIGHORN FISHING ACCE	YELLOWTAIL AFTERBAY	05S	32E	30	YELLOWSTONE RIVER	19.3	1	1	2
694	2-34-0600-001	BLACKFOOT RIVER SEC 01	MOUTH	CLEARWATER RIVER	13N	19W	21	CLARK FORK RIVER	52.9	1	1	3
DYW	1-08-0860-001	BRANCH CREEK	MOUTH	3.5 KM ABOVE MOUTH	26N	17W	24	SULLIVAN CREEK	3.5	1	4	1
CVK	3-01-1080-401	CABIN CREEK	MOUTH	JEEP TRAIL XING	14S	12W	01	BIG SHEEP CREEK	1.0	1	4	1
A3V	1-11-0880-000	CAMP CREEK	ROCKY POINT @ SEC 1	SOURCE	29N	33W	06	LAKE CREEK	12.9	1	4	1
A6X	1-08-1180-000	CANYON CREEK	MOUTH	SOURCE	29N	17W	04	HUNGRY HORSE RESERVO	4.8	1	4	1
466	3-22-1078-001	CEDAR CREEK	MOUTH	N FK CEDAR CREEK	08S	07E	13	YELLOWSTONE RIVER SE	5.6	1	4	1
DDX	1-08-1500-001	CLACK CREEK	MOUTH	2.8 KM ABOVE MOUTH	26N	12W	13	M FK FLATHEAD RIVER	2.8	1	4	1
DW7	1-08-1520-001	CLARK CREEK	MOUTH	2.5 KM ABOVE MOUTH	26N	16W	05	HUNGRY HORSE RESERVO	2.5	1	3	1
DIQ	1-08-1520-002	CLARK CREEK	MOUTH	CONFLUENCE OF HEADWA	26N	16W	08	HUNGRY HORSE RESERVO	3.0	1	4	1
DAM	1-08-1620-001	COAL CREEK	2.5 KM ABOVE MOUTH	0.6 KM ABOVE DEAD HO	34N	20W	20	N FK FLATHEAD RIVER	10.1	1	4	1
DAL	1-08-1620-002	COAL CREEK	MOUTH	2.2 KM ABOVE S FK CO	34N	21W	34	N FK FLATHEAD RIVER	8.4	1	4	1
DAK	1-08-1620-003	COAL CREEK	0.6 KM ABOVE DEAD HO	N HEADWATER	34N	22W	24	N FK FLATHEAD RIVER	10.5	1	4	1
DAJ	1-08-1620-004	COAL CREEK	2.2 KM ABOVE S FK CO	HEADWATERS	34N	23W	24	N FK FLATHEAD RIVER	2.0	1	4	1
AYJ	1-08-1640-000	COLTS CREEK	N HEADWATER	SOURCE/BRITISH COLUM	37N	22W	09	N FK FLATHEAD RIVER	1.6	1	4	1
A3A	1-05-1632-000	COOPER GULCH	MOUTH	SOURCE	21N	31W	29	PROSPECT CREEK	9.7	1	4	1
DAU	1-08-1940-001	CYCLONE CREEK	MOUTH	N END CYCLONE PARK	34N	21W	36	COAL CREEK	2.5	1	4	1
DAT	1-08-1940-002	CYCLONE CREEK	N END CYCLONE PARK	CYCLONE LAKE	34N	21W	35	COAL CREEK	4.0	1	4	1
927	1-11-1820-000	DODGE CREEK	MOUTH	HEADWATERS	37N	28W	35	LAKE KOOCANUSA	12.2	1	4	1
915	1-08-2300-001	DORIS CREEK	MOUTH	2.1 KM ABOVE MOUTH	29N	19W	02	HUNGRY HORSE RESERVO	2.1	1	3	1
DIT	1-08-2300-002	DORIS CREEK	2.1 KM ABOVE MOUTH	5.5 KM ABOVE MOUTH	29N	19W	11	HUNGRY HORSE RESERVO	3.4	1	3	1
DYR	3-17-2468-005	DUTCHMAN CREEK	BOULDER FIELD	N & S FORKS	07N	03W	03	PRICKLY PEAR CREEK	1.3	1	4	1
DYY	1-08-2560-001	EMERY CREEK	MOUTH	5.2 KM ABOVE MOUTH	30N	18W	17	HUNGRY HORSE RESERVO	5.2	1	3	1
DYZ	1-08-2560-002	EMERY CREEK	5.2 KM ABOVE MOUTH	CONFLUENCE OF HEADWA	31N	18W	32	HUNGRY HORSE RESERVO	4.9	1	3	1
495	3-22-2368-000	EMIGRANT SPRING CREEK	MOUTH	ORIGIN	06S	08E	08	YELLOWSTONE RIVER SE	1.6	1	4	1
DYI	1-08-2700-001	FELIX CREEK	MOUTH	2.5 KM ABOVE MOUTH	28N	17W	15	HUNGRY HORSE RESERVO	2.5	1	4	1
DY2	1-08-2700-002	FELIX CREEK	2.5 KM ABOVE MOUTH	3.8 KM ABOVE MOUTH	28N	17W	22	HUNGRY HORSE RESERVO	1.3	1	4	1
AG4	3-02-2200-001	FISHTRAP CREEK	MOUTH	E FK FISHTRAP CREEK	01N	13W	04	BIG HOLE RIVER	4.0	1	3	1
615	1-07-1560-001	FLATHEAD RIVER SEC 02	FLATHEAD LAKE	FOYS BEND	27N	20W	34	CLARK FORK RIVER	28.2	1	1	1
616	1-07-1560-002	FLATHEAD RIVER SEC 02	FOYS BEND	S FK FLATHEAD RIVER	28N	21W	34	CLARK FORK RIVER	38.0	1	1	1
617	1-07-1560-003	FLATHEAD RIVER SEC 02	S FK FLATHEAD RIVER	N & M FK FLATHEAD RI	30N	20W	01	CLARK FORK RIVER	14.3	1	2	1
AJD	3-09-6878-004	GALLATIN RIVER SEC 02	GALLATIN GATEWAY	SPANISH CREEK	03S	04E	10	MISSOURI RIVER	15.7	1	1	3
AF8	3-09-6916-001	GALLATIN RIVER SEC 03	SPANISH CREEK	M FK GALLATIN RIVER	04S	04E	18	MISSOURI RIVER	32.8	1	1	3
DYS	3-06-2470-001	GERMAN GULCH	MOUTH	BEEFSTRAIGHT CREEK	03N	10W	12	SILVER BOW CREEK	4.5	1	3	1
DYT	3-06-2470-002	GERMAN GULCH	BEEFSTRAIGHT CREEK	HEADWATERS	03N	10W	26	SILVER BOW CREEK	4.5	1	4	1
AHJ	3-02-2525-001	GOVERNOR CREEK	MOUTH	NATIONAL FOREST	05S	15W	26	BIG HOLE RIVER	18.3	1	3	1
AU2	2-03-2375-200	GRANITE CREEK	MOUTH	HEADWATERS	11N	23W	07	LOLO CREEK	12.0	1	4	1
DDO	1-08-3080-001	GRANITE CREEK	MOUTH	7.9 KM ABOVE MOUTH	28N	14W	35	M FK FLATHEAD RIVER	7.9	1	4	1
DDP	1-08-3080-002	GRANITE CREEK	7.9 KM ABOVE MOUTH	JCT DODGE/CHALLENGE	28N	13W	18	M FK FLATHEAD RIVER	5.5	1	4	1
DUC	1-07-1820-001	GROUM CREEK	MOUTH	3 KM ABOVE MOUTH	25N	18W	14	SWAN LAKE	3.0	1	4	1
DUD	1-07-1820-002	GROUM CREEK	3 KM ABOVE MOUTH	SOURCE	25N	18W	12	SWAN LAKE	3.0	1	4	1

*RV = Fishery Resource Value, SF = Sport Fishery Value, HS = Habitat and Species Value: 1 = Outstanding, 2 = High Value, 3 = Substantial, 4 = Moderate, 5 = Limited

RV = HIGHER of SF OR HS

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R U	S F	H S
D6E	3-01-3280-400	HARRIS CREEK	MOUTH	HEADWATERS	05S	04W	27	CALIFORNIA CREEK	6.4	1	4	1
A6W	1-08-3260-000	HARRIS CREEK	MOUTH	SOURCE	28N	17W	10	HUNGRY HORSE RESERVO	4.8	1	3	1
DAX	1-08-3340-001	HAY CREEK	MOUTH	11.3 KM ABOVE MOUTH	34N	25W	12	N FK FLATHEAD RIVER	10.7	1	4	1
DAY	1-08-3340-002	HAY CREEK	11.3 KM ABOVE MOUTH	18.5 KM ABOVE MOUTH	35N	21W	30	N FK FLATHEAD RIVER	7.2	1	4	1
DAV	1-08-3340-003	HAY CREEK	18.5 KM ABOVE MOUTH	BRIDGE 2 KM BELOW HA	35N	22W	28	N FK FLATHEAD RIVER	7.5	1	4	1
CGW	3-01-3340-401	HELL ROARING CREEK	NEW MOUTH	HELL ROARING CANYON	14S	01E	13	RED ROCK CREEK	1.6	1	4	1
DY5	1-08-3580-001	HUNGRY HORSE CREEK	MOUTH V	3.8 KM ABOVE MOUTH	30N	18W	21	HUNGRY HORSE RESERVO	3.8	1	3	1
DY6	1-08-3580-002	HUNGRY HORSE CREEK	3.8 KM ABOVE MOUTH	7.4 KM ABOVE MOUTH	30N	18W	23	HUNGRY HORSE RESERVO	3.6	1	3	1
920	1-08-3580-003	HUNGRY HORSE CREEK	7.4 KM ABOVE MOUTH	SOURCE	30N	18W	25	HUNGRY HORSE RESERVO	2.9	1	3	1
CUL	3-01-3620-401	INDIAN CREEK	0.0 KM BELOW COUNTY	0.0 KM ABOVE FS BOUN	14S	12W	18	CABIN CREEK	3.2	1	4	1
CD5	3-01-3840-401	JONES CREEK	ROADKING AT WOLFE COR	RD END 2.4 KM ABOVE	14S	03W	28	MUD CREEK	2.4	1	5	1
CG7	3-01-3940-402	JONES CREEK	RD END/CONIFER EDGE	280 M UP RIGHT FK AB	14S	03W	33	MUD CREEK	1.2	1	5	1
675	1-21-3500-001	KOOTENAI RIVER	STATE LINE	FALLS	33N	34W	20	COLUMBIA RIVER	32.8	1	2	1
669	1-21-3500-002	KOOTENAI RIVER	FALLS	LIBBY DAM	31N	33W	13	COLUMBIA RIVER	43.1	1	2	3
DYM	3-02-3225-002	LAMBRECHT CREEK	LOWER END OF JERKED	UPPER END OF JERKED	02S	12W	19	PATTENGAIL CREEK	3.0	1	4	1
AFG	4-14-2680-000	LEE CREEK	MOUTH	HEADWATERS	29N	12W	27	NORTH BADGER CREEK	3.2	1	4	1
D1H	3-22-3775-001	LOCKE CREEK	MOUTH	DIVERSION DAM	02S	11E	01	YELLOWSTONE RIVER SE	0.5	1	5	1
A61	1-08-4260-000	LOGAN CREEK	MOUTH	SOURCE	28N	17W	35	HUNGRY HORSE RESERVO	6.4	1	3	1
924	1-08-4360-001	LOST JOHNNY CREEK	MOUTH	1.0 KM ABOVE MOUTH	29N	19W	01	HUNGRY HORSE RESERVO	1.0	1	3	1
A64	1-08-4370-000	LOST MARE CREEK	MOUTH	SOURCE	30N	18W	23	HUNGRY HORSE CREEK	4.8	1	4	1
628	1-08-4740-001	M FK FLATHEAD RIVER	MOUTH	HARRISON CREEK	31N	19W	07	FLATHEAD RIVER	22.5	1	2	1
629	1-08-4740-002	M FK FLATHEAD RIVER	HARRISON CREEK	WALTON RANGER STATIO	32N	18W	36	FLATHEAD RIVER	40.2	1	2	1
630	1-08-4740-003	M FK FLATHEAD RIVER	WALTON RANGER STATIO	BOWL CREEK	29N	16W	14	FLATHEAD RIVER	85.3	1	1	1
S20	3-13-3400-001	MADISON RIVER SEC 01	MOUTH	GREYCLIFF ACCESS	02N	02E	17	MISSOURI RIVER	37.0	1	1	3
S21	3-13-3400-002	MADISON RIVER SEC 01	GREYCLIFF ACCESS	ENNIS LAKE	02S	02E	06	MISSOURI RIVER	20.9	1	1	3
887	3-13-3440-001	MADISON RIVER SEC 02	ENNIS LAKE	VARNEY BRIDGE	05S	01W	11	MISSOURI RIVER	25.7	1	1	2
523	3-13-3440-002	MADISON RIVER SEC 02	VARNEY BRIDGE	SHEEP CREEK	07S	01W	08	MISSOURI RIVER	56.3	1	1	4
S22	3-13-3440-003	MADISON RIVER SEC 02	SHEEP CREEK	HEBGEN LAKE	11S	02E	35	MISSOURI RIVER	1.6	1	1	4
S24	3-13-3520-000	MADISON RIVER SEC 03	HEBGEN LAKE	YELLOWSTONE PARK	13S	05E	04	MISSOURI RIVER	2.4	1	1	3
A66	1-08-4500-000	MARGARET CREEK	MOUTH	SOURCE	30N	18W	22	HUNGRY HORSE CREEK	6.4	1	3	1
DAQ	1-08-4580-001	MATHIAS CREEK	MOUTH	CULVERT 1.5 KM ABOVE	34N	22W	34	S FK COAL CREEK	1.5	1	4	1
BW3	3-17-4512-202	MCCLELLAN CREEK	E FK MCCLELLAN CREEK	2 KM ABOVE TEPEE CRE	08N	02W	09	PRICKLY PEAR CREEK	4.6	1	3	1
DAG	1-08-4640-001	MCGINNIS CREEK	MOUTH	FALLS	32N	20W	27	CANYON CREEK	1.3	1	4	1
DZD	1-08-4660-001	MCINERNIE CREEK	MOUTH	1.2 KM ABOVE MOUTH	29N	17W	20	HUNGRY HORSE RESERVO	1.2	1	4	1
DZC	1-08-4660-002	MCINERNIE CREEK	1.2 KM ABOVE MOUTH	2.2 KM ABOVE MOUTH	29N	17W	29	HUNGRY HORSE RESERVO	1.0	1	4	1
A6Y	1-08-4660-003	MCINERNIE CREEK	2.2 KM ABOVE MOUTH	SOURCE	29N	17W	28	HUNGRY HORSE RESERVO	2.6	1	4	1
D6F	3-01-4780-401	MCNINCH CREEK	MOUTH	SW 1/4 SEC 18	13S	10W	18	MUDDY CREEK	0.8	1	3	1
753	6-15-2680-001	MILK RIVER SEC 01	MOUTH	PORCUPINE CREEK	27N	42E	32	MISSOURI RIVER	13.0	1	3	1
BBA	6-15-2680-002	MILK RIVER SEC 01	PORCUPINE CREEK	HINSDALE	27N	42E	08	MISSOURI RIVER	152.0	1	3	1
AHN	3-02-3950-001	MINER CREEK	MOUTH	NATIONAL FOREST	05S	15W	03	BIG HOLE RIVER	9.8	1	4	1
AHM	3-02-3950-002	MINER CREEK	NATIONAL FOREST	RIDGE LAKES FK	05S	16W	36	BIG HOLE RIVER	15.3	1	3	1
B0Z	6-16-2420-001	MISSOURI RIVER SEC 01	STATE LINE	BLAIR/INDIAN RESERVA	26N	59E	24	MISSISSIPPI RIVER	88.0	1	2	1
759	6-16-2420-002	MISSOURI RIVER SEC 01	BLAIR/INDIAN RESERVA	MILK RIVER	28N	55E	33	MISSISSIPPI RIVER	176.2	1	2	1
757	6-16-2500-000	MISSOURI RIVER SEC 05	MILK RIVER	FT PECK DAM	27N	42E	32	MISSISSIPPI RIVER	13.7	1	3	1
758	6-16-2521-001	MISSOURI RIVER SEC 06A	FT PECK RESERVOIR	BLAINE/CHOTEAU COUNT	21N	26E	15	MISSISSIPPI RIVER	125.7	1	3	1
A0B	4-16-2522-002	MISSOURI RIVER SEC 06B	BLAINE/CHOUTEAU CO L	MARIAS RIVER	23N	17E	27	MISSISSIPPI RIVER	134.7	1	3	1
378	4-17-4864-000	MISSOURI RIVER SEC 07	MARIAS RIVER	MARONY DAM	25N	10E	07	MISSISSIPPI RIVER	77.2	1	2	1
374	4-17-4896-001	MISSOURI RIVER SEC 09	CASCADE BRIDGE	SHEEP CREEK	18N	01W	35	MISSISSIPPI RIVER	19.8	1	1	3
DZU	4-17-4896-002	MISSOURI RIVER SEC 09	SHEEP CREEK	DEARBORN RIVER	17N	02W	36	MISSISSIPPI RIVER	16.4	1	1	3
375	4-17-4896-003	MISSOURI RIVER SEC 09	DEARBORN RIVER	HOLTER DAM	16N	02W	19	MISSISSIPPI RIVER	22.2	1	1	3
376	4-17-4913-006	MISSOURI RIVER SEC 10A	CUCHRAN GULCH (HOLTE	HAUSER DAM	12N	02W	19	MISSISSIPPI RIVER	4.2	1	1	3
377	4-17-4914-007	MISSOURI RIVER SEC 10B	BELOW CANYON FERRY	CANYON FERRY DAM	10N	01W	04	MISSISSIPPI RIVER	1.8	1	1	3

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R V	S F
AIW	3-17-4928-000	MISSOURI RIVER SEC 11	CANYON FERRY RESERVO	TOSTON DAM	07N	02E	30	MISSISSIPPI RIVER	25.6	1	1
S35	3-22-4270-001	MOL HERON CREEK	MOUTH	NATIONAL FOREST	08S	07E	24	YELLOWSTONE RIVER SE	1.0	1	3
DD9	1-08-4880-001	MOOSE CREEK	MOUTH	1 KM BELOW WHALE BUT	36N	21W	32	N FK FLATHEAD RIVER	5.2	1	4
DEA	1-08-4880-002	MOOSE CREEK	1 KM BELOW WHALE BUT	BRDGE 2 KM ABOVE WHA	36N	22W	35	N FK FLATHEAD RIVER	4.9	1	4
DEB	1-08-4880-003	MOOSE CREEK	BRDGE 2 KM ABOVE WHA	3 KM ABOVE ROCK QUAR	35N	22W	05	N FK FLATHEAD RIVER	7.1	1	4
DAZ	1-08-4920-001	MORAN CREEK	MOUTH	7.1 KM ABOVE MOUTH	34N	21W	11	HAY CREEK	7.1	1	4
DA1	1-08-4920-002	MORAN CREEK	7.1 KM ABOVE MOUTH	8 KM ABOVE MOUTH	35N	21W	31	HAY CREEK	1.4	1	4
DA2	1-08-4920-003	MORAN CREEK	8 KM ABOVE MOUTH	DRY AREA BELOW CASCA	35N	22W	36	HAY CREEK	1.8	1	4
DC5	1-08-4940-003	MORRISON CREEK	0.1 KM BELOW CRESCEN	PUZZLE CREEK	28N	13W	27	N FK FLATHEAD RIVER	8.8	1	4
D6G	3-01-5160-402	MUDDY CREEK	S BOUNDARY SEC 33	WILSON/SOURDOUGH CRE	13S	10W	33	BIG SHEEP CREEK	12.9	1	4
A6Z	1-08-4980-000	MURRAY CREEK	MOUTH	SOURCE	29N	17W	19	HUNGRY HORSE RESERVO	4.8	1	3
D7F	1-05-5184-000	N BR MARTEN CREEK	MOUTH	HEADWATERS	25N	33W	32	MARTEN CREEK	4.5	1	3
AHB	3-02-4275-000	N FK BIG HOLE RIVER	MOUTH	RUBY CREEK	01S	15W	24	BIG HOLE RIVER	27.2	1	3
261	4-17-5280-000	N FK DEEP CREEK	MOUTH	HEADWATERS	15N	04E	24	SMITH RIVER	7.2	1	3
633	1-08-5100-001	N FK FLATHEAD RIVER	MOUTH	CAMAS CREEK	31N	19W	07	FLATHEAD RIVER	29.0	1	2
634	1-08-5100-002	N FK FLATHEAD RIVER	CAMAS CREEK	STATE LINE	33N	20W	14	FLATHEAD RIVER	37.0	1	1
DYH	3-01-5440-000	N FK GREENHORN CREEK	JUNCTION WITH SOUTH	HEADWATERS	08S	04W	26	GREENHORN CREEK	11.9	1	4
D4A	2-03-4375-000	N FK RYE CREEK	MOUTH	HEADWATERS	03N	20W	25	RYE CREEK	8.6	1	3
538	3-22-4305-000	NELSON SPRING CREEK	MOUTH	ORIGIN	03S	09E	23	YELLOWSTONE RIVER SE	4.0	1	3
D5E	1-08-5020-001	NICOLA CREEK	MOUTH	FISH BARRIER	32N	21W	08	BIG CREEK	1.1	1	4
AN2	3-13-4400-001	O'DELL CREEK	MOUTH	HWY 287 BRIDGE	05S	01W	27	MADISON RIVER	2.9	1	3
AN3	3-13-4400-002	O'DELL CREEK	HWY 287 BRIDGE	HEADWATERS	06S	01W	03	MADISON RIVER	12.9	1	3
CRX	2-05-5344-002	O'KEEFE CREEK	2 MI N OF I-90/US-93	HEADWATERS	14N	20W	16	CLARK FORK RIVER	11.3	1	4
CGM	3-01-5740-401	PEET CREEK	COUNTY RD XING/JONES	1ST RD XING ABOVE DA	14S	04W	26	RED ROCK RIVER	2.8	1	5
DIK	3-22-4620-001	PETERSON CREEK	MOUTH	GREELEY CREEK	02S	12E	05	YELLOWSTONE RIVER SE	10.5	1	3
AJS	3-01-9320-001	POINDEXTER SLOUGH	MOUTH	HEADWATERS	07S	09W	26	BEAVERHEAD RIVER	18.0	1	3
ABT	1-08-5660-001	QUINTONKIN CREEK	MOUTH	POSEY CREEK	26N	17W	11	SULLIVAN CREEK	9.0	1	3
D6B	1-08-5660-002	QUINTONKIN CREEK	POSEY CREEK	SOURCE	26N	17W	19	SULLIVAN CREEK	16.0	1	3
DYI	3-01-6100-002	RAPE CREEK	IRRIGATION RESERVOIR	HEADWATERS	10S	13W	04	HORSE PRAIRIE CREEK	11.3	1	4
DCL	1-08-5760-002	RED MEADOW CREEK	1 KM ABOVE 2ND BRIDG	0.6 KM BELOW LINK LA	35N	22W	10	N FK FLATHEAD RIVER	11.0	1	3
DC3	1-08-5760-003	RED MEADOW CREEK	0.6 KM BELOW LINK LA	RED MEADOW LAKE	35N	23W	23	N FK FLATHEAD RIVER	3.0	1	3
AH6	3-01-6180-002	RED ROCK CREEK	UPPER RED ROCK LAKE	HELLROARING CREEK DR	14S	01W	14	BEAVERHEAD RIVER	11.2	1	3
DZG	1-08-5860-001	RIVERSIDE CREEK	MOUTH	1.1 KM ABOVE MOUTH	29N	17W	07	HUNGRY HORSE RESERVO	1.1	1	3
D6C	1-08-5860-002	RIVERSIDE CREEK	FOREST ROUTE 38 CULV	SOURCE	29N	17W	08	S FK FLATHEAD RIVER	5.4	1	3
AHT	3-02-4925-001	ROCK CREEK	MOUTH	NATIONAL FOREST	03S	15W	08	BIG HOLE RIVER	20.9	1	3
554	3-22-4984-001	ROCK CREEK	MOUTH	0.3 MI ABOVE GALLATI	07S	07E	19	YELLOWSTONE RIVER SE	12.5	1	3
733	2-06-5263-000	ROCK CREEK SECT 01	MOUTH	HOGBACK CREEK	11N	17W	12	CLARK FORK RIVER	47.0	1	3
732	2-06-5262-000	ROCK CREEK SECT 02	HOGBACK CREEK	FORKS	08N	17W	35	CLARK FORK RIVER	33.3	1	3
D38	2-03-5050-001	RYE CREEK	MOUTH	N FK RYE CREEK	03N	20W	31	BITTERROOT RIVER SEC	9.6	1	3
D39	2-03-5050-002	RYE CREEK	N FK RYE CREEK	HEADWATERS	03N	20W	25	BITTERROOT RIVER SEC	18.2	1	3
A61	1-08-6020-000	RYLE CREEK	MOUTH	SOURCE	29N	17W	06	TROUT CREEK	9.0	1	3
DAS	1-08-6620-001	S FK COAL CREEK	MOUTH	2ND BRIDGE ABOVE MOU	34N	21W	30	COAL CREEK	9.0	1	4
DAR	1-08-6620-002	S FK COAL CREEK	2ND BRIDGE ABOVE MOU	HEADWATERS	34N	22W	33	COAL CREEK	2.4	1	4
642	1-08-6660-002	S FK FLATHEAD RIVER	HUNGRY HORSE RESERVO	BUNKER CREEK	26N	16W	23	FLATHEAD RIVER	27.4	1	2
643	1-08-6660-003	S FK FLATHEAD RIVER	BUNKER CREEK	YOUNG/DANAHER CREEKS	24N	14W	20	FLATHEAD RIVER	53.1	1	2
A6U	1-08-6670-000	S FK LOGAN CREEK	MOUTH	SOURCE	27N	17W	02	HUNGRY HORSE RESERVO	5.6	1	4
BAL	3-02-5128-000	SANDHOLLOW CREEK	MOUTH	SOURCE	02S	15W	09	BIG HOLE RIVER	8.0	1	4
DDN	1-08-6160-001	SCHAFER CREEK	MOUTH	0.15 KM BELOW ROUGE	27N	13W	26	M FK FLATHEAD RIVER	4.6	1	3
DA4	1-08-6320-001	SHORTY CREEK	MOUTH	FALLS 1 KM ABOVE N F	36N	23W	29	WHALE CREEK	4.5	1	4
386	4-17-6704-000	SILVER CREEK	NEAR SILVER CITY	BELOW MARYSVILLE	11N	05W	01	MISSOURI RIVER	3.4	1	5
D6J	3-01-6940-402	SIMPSON CREEK	NE 1/4 SEC 29	NE 1/4 SEC 35	14S	12W	29	CABIN CREEK	5.6	1	4
DQ8	1-07-3960-001	SIXMILE CREEK	MOUTH	SOURCE	26N	18W	30	SWAN LAKE	6.0		

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R V	S F	H S
DA9	1-08-6400-001	SKOOKOLEEL CREEK	MOUTH	4.8 KM ABOVE MOUTH	32N	21W	05	BIG CREEK	4.6	1	4	1
A6G	1-08-6560-000	SOLDIER CREEK	MOUTH	SOURCE	26N	16W	26	S FK FLATHEAD RIVER	3.2	1	4	1
D6K	3-01-7040-401	SOURDOUGH CREEK	MOUTH	SPRING IN SEC 36	13S	10W	06	MUDDY CREEK	0.8	1	4	1
942	1-08-6740-001	SPOTTED BEAR RIVER	MOUTH	DEAN FALLS	25N	15W	17	S FK FLATHEAD RIVER	31.5	1	3	1
941	1-08-6740-002	SPOTTED BEAR RIVER	DEAN FALLS	SOURCE	25N	13W	36	S FK FLATHEAD RIVER	22.5	1	3	1
AHS	3-02-5950-001	STEEL CREEK	MOUTH	MOOSE MEADOWS	02S	15W	27	BIG HOLE RIVER	14.4	1	3	1
DCY	1-08-7020-002	STRAWBERRY CREEK	TRAIL CREEK	0.1 KM ABOVE E FK ST	26N	11W	16	M FK FLATHEAD RIVER	7.5	1	4	1
DZJ	1-08-7080-001	SULLIVAN CREEK	MOUTH	3.2 KM ABOVE MOUTH	26N	17W	01	HUNGRY HORSE RESERVO	3.2	1	3	1
DZK	1-08-7080-002	SULLIVAN CREEK	3.2 KM ABOVE MOUTH	10.8 KM ABOVE MOUTH	26N	17W	11	HUNGRY HORSE RESERVO	7.6	1	3	1
DZL	1-08-7080-003	SULLIVAN CREEK	10.8 KM ABOVE MOUTH	15.3 KM ABOVE MOUTH	26N	16W	31	HUNGRY HORSE RESERVO	4.5	1	3	1
DZM	1-08-7080-004	SULLIVAN CREEK	15.3 KM ABOVE MOUTH	20.9 KM ABOVE MOUTH	25N	16W	08	HUNGRY HORSE RESERVO	5.6	1	3	1
ABS	1-08-7080-005	SULLIVAN CREEK	20.9 KM ABOVE MOUTH	SOURCE	25N	16W	21	S FK FLATHEAD RIVER	4.4	1	3	1
AHU	3-02-6175-001	SWAMP CREEK	MOUTH	YANK SWAMP	02S	15W	09	BIG HOLE RIVER	29.0	1	4	1
DHI	3-02-6325-001	THOMPSON CREEK	MOUTH	NATIONAL FOREST	01S	15W	24	BIG HOLE RIVER	13.2	1	4	1
A5S	1-08-7260-000	TIGER CREEK	MOUTH	SOURCE	30N	18W	23	HUNGRY HORSE CREEK	6.4	1	4	1
A6F	1-08-7280-000	TIN CREEK	MOUTH	SOURCE	26N	16W	36	S FK FLATHEAD RIVER	6.4	1	4	1
S74	3-22-6328-001	TOM MINER CREEK	MOUTH	PINE CREEK	07S	07E	29	YELLOWSTONE RIVER SE	10.9	1	3	1
DB7	1-08-7330-001	TRAIL CREEK	MOUTH	BOTTOM OF DRY AREA	37N	22W	36	N FK FLATHEAD RIVER	11.4	1	4	1
D78	1-05-7712-002	VERMILION RIVER	VERMILION FALLS	SOURCE	25N	29W	33	CLARK FORK RIVER	2.7	1	4	1
ADF	2-06-6916-001	WELCOME CREEK	MOUTH	CARRON CREEK	09N	17W	02	ROCK CREEK	6.6	1	3	1
DCP	1-08-7940-002	YAKINIKAK CREEK	0.1 KM ABOVE ANTLEY	0.1 KM ABOVE SEEMO C	37N	23W	34	TRAIL CREEK	3.2	1	3	1
DCE	1-08-7940-003	YAKINIKAK CREEK	0.1 KM ABOVE SEEMO C	TOP OF BIG BEAVER DA	37N	23W	33	TRAIL CREEK	3.3	1	3	1
DCD	1-08-7940-004	YAKINIKAK CREEK	TOP OF BIG BEAVER DA	NOKIO CREEK	36N	24W	01	TRAIL CREEK	3.6	1	3	1
DCC	1-08-7940-005	YAKINIKAK CREEK	NOKIO CREEK	HEAD WATERS	36N	24W	03	TRAIL CREEK	2.7	1	3	1
780	7-21-1350-001	YELLOWSTONE RIVER SEC 01	STATE LINE	INTAKE DIVERSION	24N	60E	25	MISSOURI RIVER	80.0	1	1	1
779	7-21-1350-002	YELLOWSTONE RIVER SEC 01	INTAKE DIVERSION	POWDER RIVER	18N	56E	36	MISSOURI RIVER	126.2	1	1	1
781	7-21-1400-001	YELLOWSTONE RIVER SEC 02	POWDER RIVER	CARTERSVILLE DIVERSI	11N	50E	04	MISSOURI RIVER	141.5	1	2	1
856	5-22-7057-001	YELLOWSTONE RIVER SEC 07	BOULDER RIVER	REGION 3/SPRINGDALE	01N	14E	12	MISSOURI RIVER	29.3	1	1	3
582	3-22-7058-002	YELLOWSTONE RIVER SEC 07	SPRINGDALE	SHIELDS RIVER	01S	12E	15	MISSOURI RIVER	23.8	1	1	2
585	3-22-7071-001	YELLOWSTONE RIVER SEC 08	SHIELDS RIVER	PINE CREEK	01S	10E	26	MISSOURI RIVER	31.5	1	1	2
584	3-22-7072-002	YELLOWSTONE RIVER SEC 08	PINE CREEK	TOM MINER CREEK	04S	09E	11	MISSOURI RIVER	52.0	1	1	2
586	3-22-7084-000	YELLOWSTONE RIVER SEC 09	TOM MINER CREEK	YELLOWSTONE PARK	07S	07E	29	MISSOURI RIVER	27.7	1	1	2
A59	1-08-0060-000	ADDITION CREEK	MOUTH	SOURCE	25N	15W	20	S FK FLATHEAD RIVER	8.0	2	4	2
DBG	1-08-0110-001	AKOKALA CREEK	MOUTH	2.6 KM BELOW PARKE C	35N	21W	22	N FK FLATHEAD RIVER	8.0	2	4	2
DBH	1-08-0110-002	AKOKALA CREEK	2.6 KM BELOW PARKE C	AKOKALA LAKE	36N	21W	27	N FK FLATHEAD RIVER	8.8	2	4	2
DB5	1-08-0210-001	ANACONDA CREEK	MOUTH	FALLS 19 KM ABOVE MO	33N	20W	11	N FK FLATHEAD RIVER	18.4	2	4	2
DB4	1-08-0210-002	ANACONDA CREEK	FALLS 19 KM ABOVE MO	ANACONDA LAKE	34N	19W	14	N FK FLATHEAD RIVER	6.1	2	4	2
DC9	1-08-0300-001	ARGOSY CREEK	MOUTH	1.5 KM ABOVE MOUTH	26N	12W	20	DOLLY VARDEN CREEK	1.5	2	4	2
DC8	1-08-0300-002	ARGOSY CREEK	1.5 KM ABOVE MOUTH	HEADWATERS	26N	12W	19	DOLLY VARDEN CREEK	3.7	2	4	2
ABO	1-08-0360-001	BABCOCK CREEK	MOUTH	FURIOUS CREEK	19N	13W	33	YOUNGS CREEK	11.3	2	3	2
D28	2-03-0150-001	BAKER CREEK	NATIONAL FOREST	HEADWATERS	02N	21W	33	W FK BITTERROOT RIVE	6.4	2	3	2
A9I	4-17-0200-000	BALSINGER CREEK	MOUTH	HEADWATERS	14N	06E	30	TENDERFOOT CREEK	8.2	2	4	2
A5Y	1-08-0440-000	BAR CREEK	MOUTH	SOURCE	18N	11W	08	DANAHER CREEK	6.4	2	4	2
A5X	1-08-0480-000	BASIN CREEK	MOUTH	SOURCE	19N	12W	15	DANAHER CREEK	11.3	2	3	2
DDK	1-08-0500-001	BASIN CREEK	MOUTH	2.1 KM ABOVE MOUTH	26N	11W	35	BOWL CREEK	2.1	2	4	2
DDJ	1-08-0500-002	BASIN CREEK	2.1 KM ABOVE MOUTH	8.7 KM ABOVE MOUTH	25N	11W	03	BOWL CREEK	6.6	2	4	2
DYF	3-01-0420-000	BEAR CREEK	MOUTH	HEADWATERS	10S	14W	18	TRAIL CREEK	14.3	2	4	2
D29	2-03-0325-000	BEAVER CREEK	MOUTH	HEADWATERS	04S	22W	04	W FK BITTERROOT RIVE	8.3	2	3	2
786	7-12-0100-000	BEAVER CREEK	STATE LINE	LAMESTEER CREEK	16N	61E	18	LITTLE MISSOURI RIVE	85.6	2	5	2
AME	3-01-0500-003	BEAVERHEAD RIVER	STODDEN DITCH	GRASSHOPPER CREEK	07S	08W	08	JEFFERSON RIVER	20.6	2	2	3
DIN	3-06-0475-001	BEEFSTRAIGHT CREEK	GERMAN GULCH	700 M ABOVE AMERICAN	03N	10W	26	SILVER BOW CREEK	3.7	2	4	2
D3A	2-03-0425-001	BIG CREEK	MOUTH	NATIONAL FOREST	08N	20W	08	BITTERROOT RIVER SEC	6.4	2	3	2

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R V	S F
DBE	1-08-0680-002	BIG CREEK	1 KM ABOVE ELELEHUM	1.5 KM ABOVE NICOLA	33N	21W	27	N FK FLATHEAD RIVER	7.9	2	4
ABK	1-08-0740-001	BIG SALMON RIVER	MOUTH	SPUD CREEK	22N	14W	26	S FK FLATHEAD RIVER	6.3	2	3
AK3	3-01-6740-003	BIG SHEEP CREEK	SHEARING PEN GULCH	SOURCE	14S	10W	15	RED ROCK RIVER	12.7	2	3
292	4-16-0310-001	BIG SPRING CREEK SEC 02	HYW 19 BRIDGE	UPPER FISH HATCHERY	15N	18E	10	JUDITH RIVER	20.8	2	2
DTC	5-22-0490-001	BIGHORN RIVER SEC 01	MOUTH	LITTLE BIGHORN RIVER	05N	34E	28	YELLOWSTONE RIVER	68.5	2	3
DTD	5-22-0495-002	BIGHORN RIVER SEC 02	LITTLE BIGHORN RIVER	TWO LEGGINS DIVERSIO	01S	34E	18	YELLOWSTONE RIVER	17.1	2	3
689	2-03-0475-001	BITTERROOT RIVER SEC 01	MOUTH	FLORENCE BRIDGE	13N	20W	27	CLARK FORK RIVER	36.9	2	2
690	2-03-0475-002	BITTERROOT RIVER SEC 01	FLORENCE BRIDGE	BELL XING	10N	20W	12	CLARK FORK RIVER	27.4	2	2
688	2-03-0500-000	BITTERROOT RIVER SEC 02	BELL XING	E & W FK BITTERROOT	08N	20W	17	CLARK FORK RIVER	66.6	2	2
693	2-04-0630-002	BLACKFOOT RIVER SEC 02	CLEARWATER RIVER	ARRASTRA CREEK	14N	14W	16	CLARK FORK RIVER	69.2	2	2
ANE	3-13-0560-001	BLAINE SPRINGS CREEK	MOUTH	KENNIS FISH HATCHERY	07S	01W	17	MADISON RIVER	8.5	2	3
AEN	2-03-0575-000	BLUE JOINT CREEK	MOUTH	HEADWATERS	02S	22W	04	PAINTED ROCKS LAKE	27.7	2	3
D3C	2-03-0600-000	BOULDER CREEK	MOUTH	HEADWATERS	01N	21W	20	W FK BITTERROOT RIVE	15.2	2	3
886	5-22-0742-000	BOULDER RIVER SEC 01	MOUTH	NATURAL BRIDGE	01N	14E	12	YELLOWSTONE RIVER	49.2	2	2
DDQ	1-08-0920-001	BOWL CREEK	MOUTH	0.6-KM BELOW SCALP C	26N	11W	20	STRAWBERRY CREEK	2.6	2	4
DDR	1-08-0820-002	BOWL CREEK	0.6 KM BELOW SCALP C	2.9 KM BELOW BASIN C	26N	11W	29	STRAWBERRY CREEK	4.2	2	4
DDS	1-08-0820-003	BOWL CREEK	1.5 KM BELOW BASIN C	0.1 KM ABOVE BASIN C	26N	11W	27	STRAWBERRY CREEK	1.6	2	4
DB3	1-08-0830-001	BOWMAN CREEK	MOUTH	BOWMAN LAKE	35N	21W	22	N FK FLATHEAD RIVER	8.2	2	4
785	37-12-0200-001	BOXELDER CREEK	STATE LINE	HWY 212	02N	62E	28	LITTLE MISSOURI RIVE	201.3	2	5
D3D	2-03-0650-000	BUCK CREEK	MOUTH	HEADWATERS	02N	16W	30	E FK BITTERROOT RIVE	4.8	2	3
938	1-08-0980-001	BUNKER CREEK	MOUTH	FALLS	24N	14W	20	S FK FLATHEAD RIVER	18.0	2	3
A53	1-08-1000-000	BURNT CREEK	MOUTH	SOURCE	21N	13W	32	S FK FLATHEAD RIVER	11.3	2	4
D42	2-05-0992-000	BUTLER CREEK	MOUTH	HEADWATERS	13N	20W	03	GRASS VALLEY FRENCH	20.8	2	4
BPA	7-21-0112-000	CABIN CREEK	MOUTH	BRIDGE AT ULRICH FAR	14N	54E	34	YELLOWSTONE RIVER	14.5	2	5
DD3	1-08-1080-001	CALBICK CREEK	MOUTH	4.3 KM ABOVE MOUTH	27N	12W	29	M FK FLATHEAD RIVER	4.3	2	4
981	1-11-0860-002	CALLAHAN CREEK	FALLS	SOURCE	31N	34W	21	KOOTENAI RIVER	12.8	2	3
A5W	1-08-1120-000	CAMP CREEK	MOUTH	SOURCE	19N	12W	10	DANAHER CREEK	8.0	2	4
ADY	2-05-1280-000	CEDAR CREEK	MOUTH	HEADWATERS	16N	26W	03	CLARK FORK RIVER	24.8	2	3
D3M	2-03-1200-002	CHAFFIN CREEK	NATIONAL FOREST	HEADWATERS	03N	21W	02	BITTERROOT RIVER SEC	13.9	2	3
DDY	1-08-1500-002	CLACK CREEK	2.8 KM ABOVE MOUTH	1.9 KM ABOVE TRAIL F	26N	12W	26	M FK FLATHEAD RIVER	2.7	2	4
DDZ	1-08-1500-003	CLACK CREEK	1.9 KM ABOVE TRAIL F	HEADWATERS	26N	12W	24	M FK FLATHEAD RIVER	5.1	2	4
699	2-05-1456-002	CLARK FORK RIVER SEC 02	SIEGAL CREEK	SUPERIOR	18N	25W	17	PEND OREILLE RIVER	68.3	2	2
700	2-05-1456-003	CLARK FORK RIVER SEC 02	SUPERIOR	BITTERROOT RIVER	17N	26W	34	PEND OREILLE RIVER	99.6	2	2
698	2-04-1290-002	CLEARWATER RIVER	INEZ LAKE	CLEARWATER LAKE	18N	15W	31	BLACKFOOT RIVER	9.7	2	3
C7W	1-09-1630-001	COAL CREEK	MOUTH	1 KM ABOVE TRIBUTARY	31N	17W	26	M FK FLATHEAD RIVER	5.6	2	3
C7X	1-08-1630-002	COAL CREEK	1 KM ABOVE TRIBUTARY	1 KM BELOW FALLS AT	31N	16W	29	M FK FLATHEAD RIVER	12.5	2	3
C7Y	1-08-1630-003	COAL CREEK	1 KM BELOW FALLS AT	TRIBUTARY FROM W AT	31N	15W	30	M FK FLATHEAD RIVER	7.6	2	4
BA4	3-01-1500-001	CORRAL CREEK	MOUTH	BLM LAND	14S	01E	16	RED ROCK CREEK	7.4	2	3
BPF	7-21-0122-000	COTTONWOOD CREEK	MOUTH	CASTLE/COTTONWOOD BE	18N	57E	11	YELLOWSTONE RIVER	11.2	2	5
402	4-14-1000-001	COW CREEK	MOUTH	NEAR UPPER END	26N	08W	04	MUDDY CREEK	4.8	2	4
DD1	1-08-1740-001	COX CREEK	MOUTH	3.3 KM ABOVE MOUTH	27N	12W	28	M FK FLATHEAD RIVER	3.3	2	4
DD2	1-08-1740-002	COX CREEK	3.3 KM ABOVE MOUTH	0.2 KM BELOW BURNT C	27N	12W	27	M FK FLATHEAD RIVER	6.1	2	4
D8X	1-08-1810-001	CUMMINGS CREEK	MOUTH	HEADWATERS	35N	20W	27	QUARTZ CREEK	11.8	2	4
D3M	2-03-1600-000	DALY CREEK	MOUTH	HEADWATERS	05N	19W	24	SKALKAHO CREEK	16.4	2	3
ABI	1-08-1900-002	DANAHER CREEK	6.8 KM ABOVE MOUTH	RAPID CREEK	19N	12W	04	S FK FLATHEAD RIVER	10.9	2	3
DAO	1-08-1980-001	DEAD HORSE CREEK	MOUTH	BRIDGE	34N	21W	35	COAL CREEK	6.1	2	4
DAN	1-08-1980-002	DEAD HORSE CREEK	BRIDGE	HEADWATERS	33N	21W	05	COAL CREEK	1.2	2	4
246	4-17-2096-002	DEEP CREEK	DEVILS CANYON	FORKS	15N	04E	11	SMITH RIVER	5.0	2	3
D3D	2-03-1700-001	DEER CREEK	NATIONAL FOREST	HEADWATERS	03S	22W	08	W FK BITTERROOT RIVE	22.5	2	3
BPI	7-21-0140-000	DEER CREEK	MOUTH	NEAR OLD ABANDONED F	16N	54E	07	YELLOWSTONE RIVER	29.0	2	4
ABI	1-08-2200-001	DIRTYFACE CREEK	MOUTH	1 KM ABOVE ELK CREEK	28N	16W	12	M FK FLATHEAD RIVER	4.2	2	3
D88	1-08-2260-001	DODGE CREEK	MOUTH	3.7 KM ABOVE MOUTH	29N	13W	32	GRANITE CREEK	3.7	2	4

MONTANA DEPARTMENT OF FISH WILDLIFE & PARKS
STREAM FISHERY EVALUATION BY RESOURCE VALUE
NOVEMBER 5, 1985

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R V	S F	H S
DDA	1-08-2280-001	DOLLY VARDEN CREEK	SCHAFER CREEK	0.5 KM ABOVE ARGOSY	27N	13W	26	M FK FLATHEAD RIVER	13.1	2	6	2
D61	2-04-1885-402	DRY COTTONWOOD CREEK	BLM BOUNDARY	BLM BOUNDARY	12N	11W	14	COTTONWOOD CREEK	4.0	2	5	2
DB2	1-08-2390-001	DUTCH CREEK	MOUTH	4.7 KM ABOVE RT 7 BR	33N	19W	07	CAMAS CREEK	7.6	2	4	2
DB1	1-08-2390-002	DUTCH CREEK	4.7 KM ABOVE RT 7 BR	10.2 KM ABOVE RT 7 B	34N	19W	27	CAMAS CREEK	5.5	2	4	2
DBZ	1-08-2390-003	DUTCH CREEK	10.2 KM ABOVE RT 7 B	DUTCH LAKE	34N	18W	19	CAMAS CREEK	4.9	2	4	2
707	2-03-1950-002	E FK BITTERROOT RIVER	NATIONAL FOREST	HEADWATERS	02N	20W	35	BITTERROOT RIVER	59.5	2	2	4
D43	2-04-2055-000	E FK CLEARWATER RIVER	MOUTH	HEADWATERS	18N	16W	01	CLEARWATER RIVER	9.6	2	4	2
AMO	3-09-1672-001	E FK HYALITE CREEK	HYALITE RESERVOIR	FLANDERS CREEK	04S	06E	23	HYALITE RESERVOIR	3.5	2	4	2
A7Y	6-16-1415-000	E FK POPLAR RIVER	MOUTH	STATE LINE	36N	48E	33	POPLAR RIVER	29.0	2	5	2
DCV	1-08-2460-001	E FK STRAWBERRY CREEK	MOUTH	3 KM ABOVE MOUTH	27N	11W	28	M FK FLATHEAD RIVER	3.0	2	3	2
A14	3-09-1710-003	EAST GALLATIN RIVER	MOUTH	BOZEMAN CREEK	01N	05E	32	GALLATIN RIVER	19.8	2	2	3
D3PH	2-03-2075-001	EIGHTMILE CREEK	HYALITE CREEK	NORTH FORK	10N	19W	07	BITTERROOT RIVER SEC	13.6	2	2	3
708	2-05-2768-001	FISH CREEK	MOUTH	W FK FISH CREEK	14N	25W	01	CLARK FORK RIVER	23.3	2	2	3
DBM	1-08-2810-001	FORD CREEK	MOUTH	6.9 KM ABOVE MOUTH	36N	21W	19	N FK FLATHEAD RIVER	16.9	2	4	2
DBL	1-08-2810-002	FORD CREEK	7.2 KM ABOVE MOUTH	9.5 KM ABOVE MOUTH	36N	21W	04	N FK FLATHEAD RIVER	2.1	2	4	2
DBK	1-08-2810-003	FORD CREEK	9.5 KM ABOVE MOUTH	11.7 KM ABOVE MOUTH	37N	21W	34	N FK FLATHEAD RIVER	3.8	2	4	2
BPN	7-21-0250-000	FOX CREEK	MOUTH	LAMBERT SITE	22N	59E	19	YELLOWSTONE RIVER	41.9	2	2	4
C8U	3-02-2325-000	FRANCIS CREEK	MOUTH	HEADWATERS	04S	15W	03	BIG HOLE RIVER	12.9	2	3	2
D62	2-04-2520-402	GALLAGHER CREEK	BLM BOUNDARY	HEADWATERS	11N	09W	06	NEVADA CREEK	5.6	2	3	2
AJA	3-09-2090-000	GALLATIN RIVER SEC 01	MOUTH	EAST GALLATIN RIVER F	02N	02E	09	MISSOURI RIVER	20.1	2	2	3
AJE	3-09-6878-001	GALLATIN RIVER SEC 02	EAST GALLATIN RIVER	BAKER CREEK	02N	03E	27	MISSOURI RIVER	5.1	2	2	3
AJC	3-09-6878-003	GALLATIN RIVER SEC 03	CAMERON BRIDGE	GALLATIN GATEWAY	03S	04E	10	MISSOURI RIVER	19.3	2	2	3
AJB	3-09-6916-002	GALLATIN RIVER SEC	W FK GALLATIN RIVER	PARK LINE	06S	04E	32	MISSOURI RIVER	29.0	2	2	3
DDU	1-08-2940-001	GATEWAY CREEK	MOUTH	0.15 KM BELOW SHIN C	26N	11W	09	STRAWBERRY CREEK	2.5	2	4	2
DDW	1-08-2940-002	GATEWAY CREEK	0.15 KM BELOW SHIN C	2 KM ABOVE SHIN CREE	26N	11W	03	STRAWBERRY CREEK	2.2	2	4	2
DAA	1-08-2940-003	GATEWAY CREEK	3.8 KM ABOVE SHIN CR	3.8 KM ABOVE SHIN CR	27N	11W	35	STRAWBERRY CREEK	1.8	2	4	2
DAB	1-08-2940-004	GATEWAY CREEK	5 KM ABOVE MOUTH	HEADWATERS	27N	11W	25	STRAWBERRY CREEK	1.1	2	4	2
DQX	1-07-1720-003	GOAT CREEK	11.9 KM ABOVE MOUTH	1 KM ABOVE SCOUT CRE	23N	17W	10	SWAN RIVER	5.4	2	3	2
ABP	1-08-3040-002	GORDON CREEK	NATIONAL FOREST	1.3 KM ABOVE CARDINA	19N	13W	07	S FK FLATHEAD RIVER	3.4	2	3	2
A9V	4-18-2940-001	HALF MOON CREEK	MOUTH	HEADWATERS	12N	19E	01	N FK FLATWILLOW CREE	6.4	2	4	2
DBC	1-08-3240-001	HALLOWAT CREEK	4.1 KM ABOVE MOUTH	4.1 KM ABOVE MOUTH	33N	21W	33	BIG CREEK	4.1	2	4	2
DBB	1-08-3240-002	HALLOWAT CREEK	4 KM ABOVE MOUTH	4 KM ABOVE LAST BRID	33N	21W	31	BIG CREEK	8.7	2	4	2
D44	2-06-2945-001	HARVEY CREEK	RAILROAD DROP STRUCT	HEADWATERS	11N	14W	16	CLARK FORK RIVER SEC	26.5	2	3	2
DPY	3-17-3496-000	HOGAN CREEK	MOUTH	0.3 KM ABOVE MOUTH	08N	03W	36	S FK WARM SPRINGS CR	0.3	2	4	2
ADE	2-06-3078-000	HOGBACK CREEK	MOUTH	HEADWATERS	08N	17W	35	ROCK CREEK	5.0	2	3	2
AMT	3-09-6802-001	HYALITE CREEK SEC 02	MOUTH	GROTTO FALLS	04S	06E	23	GALLATIN RIVER	3.1	2	3	2
AWT	2-05-3616-200	INDIAN CREEK	HYALITE RESERVOIR	HEADWATERS	13N	26W	25	W FK FISH CREEK	3.2	2	4	2
ABS	4-17-3780-000	IRON MINES CREEK	MOUTH	FORKS	14N	06E	35	TENDERFOOT CREEK	3.2	2	4	2
AKS	3-10-3840-001	JEFFERSON RIVER	MOUTH	PIPESTONE CREEK	02N	02E	17	MISSOURI RIVER	73.1	2	2	4
AKT	3-10-3940-002	JEFFERSON RIVER	MOUTH	FISH CREEK	01N	04W	11	MISSOURI RIVER	18.7	2	2	4
AKU	3-10-3840-003	JEFFERSON RIVER	BIG PIPESTONE CREEK	HEADWATERS	01N	04W	29	MISSOURI RIVER	30.7	2	2	4
DCA	1-08-3790-001	KETCHIKAN CREEK	FISH CREEK	2 KM ABOVE MOUTH	37N	22W	28	TRAIL CREEK	3.0	2	4	2
DCB	1-08-3790-002	KETCHIKAN CREEK	MOUTH	0.2 KM BELOW JOHNSON	37N	22W	28	TRAIL CREEK	1.5	2	4	2
D89	1-08-3790-003	KETCHIKAN CREEK	3 KM ABOVE MOUTH	HEADWATERS	37N	22W	20	TRAIL CREEK	3.7	2	4	2
DAF	1-08-3820-001	KIMMERLY CREEK	0.2 KM BELOW JOHNSON	HEADWATERS	32N	20W	29	CANYON CREEK	4.2	2	4	2
DBN	1-08-3830-001	KINTLA CREEK	MOUTH	KINTLA LAKE	36N	22W	01	N FK FLATHEAD RIVER	3.5	2	4	2
DBD	1-08-3835-001	KISHENEHN CREEK	MOUTH	STATE LINE	37N	22W	23	N FK FLATHEAD RIVER	8.7	2	4	2
D3T	2-03-3300-001	KOOTENAI CREEK	MOUTH	GAUGING STATION AT N	09N	20W	21	BITTERROOT RIVER SEC	4.8	2	3	2
D3U	2-03-3000-002	KOOTENAI CREEK	GAUGING STATION AT N	HEADWATERS	09N	20W	18	BITTERROOT RIVER SEC	13.6	2	3	2
DDH	1-08-3956-001	LAKE CREEK	MOUTH	2.5 KM ABOVE MOUTH	27N	14W	12	M FK FLATHEAD RIVER	2.5	2	4	2
DBD	1-08-4000-001	LANGFORD CREEK	MOUTH	0.5 KM ABOVE BIG CRE	33N	20W	21	BIG CREEK	1.2	2	4	2
DAD	1-08-4000-002	LANGFORD CREEK	0.5 KM ABOVE BIG CRE	MUD LAKE	33N	20W	20	BIG CREEK	2.0	2	4	2

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R V	S F
C7P	1-08-4170-002	LINCOLN CREEK	WALTON CREEK	LINCOLN LAKE OUTLET	32N	18W	11	M FK FLATHEAD RIVER	8.0	2	3
DZY	3-22-3647-000	LIJN CREEK	MOUTH	HEADWATERS	08S	07E	32	CINNABAR CREEK	4.0	2	4
784	7-12-0300-000	LITTLE MISSOURI RIVER	STATE LINE	STATE LINE	09S	59E	36	MISSOURI RIVER	110.1	2	5
D3W	2-03-3325-001	LITTLE ROCK CREEK	LAKE COMO	HEADWATERS	03N	21W	01	BITTERROOT RIVER SEC	9.6	2	3
DDD	1-08-4240-001	LODGEPOLE CREEK	MORRISON CREEK	6.5 KM ABOVE MORRISO	27N	13W	10	M FK FLATHEAD RIVER	6.5	2	4
DDC	1-08-4240-002	LODGEPOLE CREEK	6.5 KM ABOVE MORRISO	1.4 KM ABOVE DRUMMIN	27N	12W	06	M FK FLATHEAD RIVER	4.1	2	4
DBI	1-08-4275-001	LONG BOW CREEK	MOUTH	LONG BOW LAKE	36N	21W	24	AKOKALA CREEK	6.4	2	4
DD6	1-08-4280-001	LONG CREEK	MOUTH	0.1 KM ABOVE TRAIL F	28N	15W	29	M FK FLATHEAD RIVER	2.7	2	4
DD7	1-08-4280-002	LONG CREEK	0.1 KM ABOVE TRAIL F	MOUTH OF CANYON ABOV	27N	15W	05	M FK FLATHEAD RIVER	1.3	2	4
A7L	1-08-4300-000	LOOKOUT CREEK	MOUTH	SOURCE	33N	20W	30	BIG CREEK	4.8	2	4
AES	4-14-3240-001	MARIAS RIVER SEC 01	MOUTH	TIBER DAM	25N	10E	07	MISSOURI RIVER	128.0	2	4
A5L	1-08-4520-000	MARION CREEK	MOUTH	SOURCE	29N	16W	15	ESSEX CREEK	3.2	2	4
DAP	1-08-4580-002	MATHIAS CREEK	CULVERT 1.5 KM ABOVE	HEADWATERS	34N	22W	33	S FK COAL CREEK	2.8	2	4
525	3-22-3930-001	MCDONALD CREEK	MOUTH	HWY 540	04S	09E	11	YELLOWSTONE RIVER	3.4	2	4
D3Z	2-03-3800-000	MEADOW CREEK	MOUTH	HEADWATERS	02N	18W	24	E FK BITTERROOT RIVE	13.0	2	3
752	6-15-2720-000	MILK RIVER SEC 02	HINSDALE	MALTA	31N	36E	32	MISSOURI RIVER	165.6	2	3
754	6-15-2760-001	MILK RIVER SEC 03	MALTA	HWY 2 BRIDGE	30N	30E	18	MISSOURI RIVER	82.8	2	3
801	6-15-2760-002	MILK RIVER SEC 03	HWY 2 BRIDGE/INDIAN	FT BELKNAP INDIAN RE	31N	26E	36	MISSOURI RIVER	107.8	2	3
755	6-15-2760-003	MILK RIVER SEC 03	FT BELKNAP INDIAN RE	HAURE	32N	22E	19	MISSOURI RIVER	107.9	2	3
A7C	1-07-2820-000	MILL CREEK	MOUTH	SOURCE	28N	20W	27	FLATHEAD RIVER	4.8	2	4
DZZ	3-22-4186-000	MILL CREEK	MOUTH	HEADWATERS	08S	07E	32	CINNABAR CREEK	5.6	2	4
DZ1	3-22-4221-000	MILL FORK CREEK	MOUTH	HEADWATERS	02S	11E	33	MISSION CREEK	5.5	2	3
373	4-17-4880-004	MISSOURI RIVER SEC 08	SMITH RIVER	CASCADE BRIDGE	19N	02E	09	MISSISSIPPI RIVER	42.8	2	2
D7D	3-13-4300-001	MOORE CREEK	MOUTH	HIGHWAY 287 IN ENNIS	05S	01W	10	ENNIS LAKE	8.0	2	4
AEH	2-03-4075-000	MOOSE CREEK	MOUTH	HEADWATERS	02N	17W	17	E FK BITTERROOT RIVE	13.8	2	3
DC7	1-08-4940-001	MORRISON CREEK	MOUTH	1.1 KM BELOW STAR CR	27N	13W	08	M FK FLATHEAD RIVER	7.5	2	4
DC6	1-08-4940-002	MORRISON CREEK	1.1 KM BELOW STAR CR	0.1 KM BELOW CRESCEN	28N	13W	34	M FK FLATHEAD RIVER	3.8	2	4
C75	1-08-4950-001	MUIR CREEK	MOUTH	ABOVE 1ST TRIBUTARY	30N	16W	16	M FK FLATHEAD RIVER	1.9	2	4
C76	1-08-4950-002	MUIR CREEK	ABOVE 1ST TRIBUTARY	4TH 1ST ORDER TRIBUT	30N	16W	09	M FK FLATHEAD RIVER	2.4	2	4
C77	1-08-4950-003	MUIR CREEK	4TH 1ST ORDER TRIBUT	0.6 KM ABOVE FALLS A	30N	16W	11	M FK FLATHEAD RIVER	2.9	2	4
AHC	3-02-4150-001	MUSSIGBROD CREEK	MOUTH	MUSSIGBROD LAKE	01S	16W	34	N FK BIG HOLE RIVER	21.5	2	3
D45	2-04-3960-001	N FK BLACKFOOT RIVER	MOUTH	NATIONAL FOREST	14N	12W	09	BLACKFOOT RIVER	30.4	2	3
726	2-04-3960-002	N FK BLACKFOOT RIVER	NATIONAL FOREST	HEADWATERS	16N	11W	34	BLACKFOOT RIVER	42.3	2	3
418	4-14-3830-002	N FK DEEP CREEK	NATIONAL FOREST	NEAR UPPER END	23N	08W	07	DEEP CREEK	3.2	2	5
D6H	3-01-5400-401	N FK DIVIDE CREEK	OLD RAILROAD GRADE	1/2 MILE ABOVE NATIO	12S	14W	03	HORSE PRAIRIE CREEK	4.2	2	4
DP6	3-17-5318-000	N FK DUTCHMAN CREEK	MOUTH	1.1 KM ABOVE MOUTH	07N	03W	03	DUTCHMAN CREEK	1.1	2	4
262	4-14-3920-002	N FK LITTLE BADGER CREEK	BLACKFEET INDIAN RES	NEAR UPPER END	30N	12W	25	TWO MEDICINE RIVER	2.1	2	3
DZW	4-17-5380-002	N FK LITTLE BELT CREEK	NATIONAL FOREST	HEADWATERS	19N	08E	13	LITTLE BELT CREEK	3.0	2	4
AXK	3-01-5210-000	NARROWS CREEK	MOUTH	HEADWATERS	13S	01E	29	RED ROCK RIVER	3.5	2	3
AF5	2-03-4225-001	NELSON CREEK	MOUTH	NATIONAL FOREST	01N	22W	35	NEZ PERCE FORK	0.5	2	3
D31	2-03-4225-002	NELSON CREEK	NATIONAL FOREST	HEADWATERS	01N	22W	35	W FK BITTERROOT RIVE	9.9	2	3
982	1-11-4645-000	NORTH CALLAHAN CREEK	MOUTH	STATE LINE	31N	35W	24	CALLAHAN CREEK	3.2	2	4
BPX	7-21-0700-001	O'FALLON CREEK	MOUTH	MILDRED BRIDGE	13N	52E	33	YELLOWSTONE RIVER	33.6	2	4
BPY	7-21-0700-002	O'FALLON CREEK	MILDRED BRIDGE	SCHUMAKER SITE	11N	54E	30	YELLOWSTONE RIVER	30.4	2	4
BPZ	7-21-0700-003	O'FALLON CREEK	SCHUMAKER SITE	BRIDGE ON BAKER RD	09N	55E	17	YELLOWSTONE RIVER	16.0	2	4
AKL	3-01-5600-001	ODELL CREEK	LOWER RED ROCK LAKE	REFUGE	14S	02W	03	RED ROCK CREEK	6.1	2	3
AKJ	3-01-5600-002	ODELL CREEK	REFUGE	COUNTY RD	14S	02W	14	RED ROCK CREEK	2.9	2	3
AKK	3-01-5600-401	ODELL CREEK	COUNTY RD	0.4 KM ABOVE SPRING	14S	02W	31	RED ROCK CREEK	4.8	2	4
D6I	3-01-5600-402	ODELL CREEK	0.4 KM ABOVE SPRING	HEADWATERS	15S	01W	06	RED ROCK CREEK	2.4	2	3
C8E	1-08-5150-001	OLE CREEK	MOUTH	END OF CANYON 7.4 KM	29N	16W	14	M FK FLATHEAD RIVER	7.4	2	3
C8F	1-08-5150-002	OLE CREEK	END OF CANYON 7.4 KM	0.2 KM ABOVE FIELDIN	29N	15W	09	M FK FLATHEAD RIVER	4.0	2	3
C8G	1-08-5150-003	OLE CREEK	0.2 KM ABOVE FIELDIN	FALLS ABOVE DEBRIS C	29N	15W	02	M FK FLATHEAD RIVER	15.6	2	3

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R U	S F	H S
C8A	1-08-5365-002	PARK CREEK	3.5 KM ABOVE MOUTH	4.3 KM ABOVE FIELDIN	30N	26W	36	M FK FLATHEAD RIVER	8.4	2	3	2
C8C	1-08-5365-004	PARK CREEK	UPPER FORKS AT 19.3	3.2 KM ABOVE UPPER F	30N	15W	35	M FK FLATHEAD RIVER	3.2	2	4	2
D8J	1-08-5370-001	PARKE CREEK	MOUTH	2 KM ABOVE MOUTH	36N	21W	23	AKOKALA CREEK	1.8	2	4	2
D8Y	1-08-5370-002	PARKE CREEK	2 KM ABOVE MOUTH	7 KM ABOVE MOUTH	36N	21W	14	AKOKALA CREEK	4.6	2	4	2
383	4-17-5888-000	PILGRIM CREEK	MOUTH	FORKS	16N	06E	26	BELT CREEK	12.7	2	3	2
C7Z	1-08-5530-001	PINCHOT CREEK	MOUTH	1.8 KM ABOVE MOUTH	31N	17W	25	COAL CREEK	1.8	2	3	2
C71	1-08-5530-002	PINCHOT CREEK	1.8 KM ABOVE MOUTH	0.8 KM ABOVE PERIL C	31N	16W	19	COAL CREEK	3.9	2	4	2
A7W	6-16-2820-002	POPLAR RIVER SEC 01	INDIAN RESERVATION	E FK	33N	48E	12	MISSOURI RIVER	30.0	2	3	2
A7X	6-16-2375-000	POPLAR RIVER SEC 02	E FK	STATE LINE	36N	48E	33	MISSOURI RIVER	48.0	2	4	2
773	7-21-0750-000	POWDER RIVER	MOUTH	STATE LINE	11N	50E	04	YELLOWSTONE RIVER	350.0	2	4	2
DP8	3-17-6032-004	PRICKLY PEAR CREEK	NATIONAL FOREST	4.8 KM ABOVE NATIONA	07N	03W	15	LAKE HELENA	4.8	2	3	2
A8D	1-08-5620-000	PUZZLE CREEK	MOUTH	SOURCE	28N	13W	03	MORRISON CREEK	6.4	2	4	2
DB6	1-08-5650-001	QUARTZ CREEK	MOUTH	LOWER QUARTZ LAKE	34N	20W	18	N FK FLATHEAD RIVER	10.1	2	4	2
DUH	1-07-3640-001	RED BUTTE CREEK	MOUTH	SOURCE	19N	17W	04	KRAFT CREEK	4.0	2	4	2
DCJ	1-08-5760-001	RED MEADOW CREEK	MOUTH	1 KM ABOVE 2ND BRIDG	35N	21W	08	N FK FLATHEAD RIVER	7.7	2	4	2
AJO	3-01-6140-001	RED ROCK RIVER SEC 01	MOUTH	BIG SHEEP CREEK	10S	10W	29	CLARK CANYON RESERVO	30.4	2	2	3
765	6-16-2940-002	REDWATER RIVER	WOLF CREEK	LISK CREEK	24N	50E	01	MISSOURI RIVER	77.2	2	5	2
A5C	1-08-5880-000	ROARING CREEK	MOUTH	SOURCE	27N	13W	35	SCHAFER CREEK	6.4	2	4	2
D47	2-09-6016-000	ROMAN CREEK	MOUTH	HEADWATERS	15N	22W	36	CLARK FORK RIVER SEC	9.6	2	4	2
783	7-22-5028-001	ROSEBUD CREEK	MOUTH	INDIAN RESERVATION	06N	42E	16	YELLOWSTONE RIVER	153.0	2	4	2
AM4	3-01-6360-000	RUBY RIVER SEC 01	MOUTH	RUBY RESERVOIR	04S	06W	04	BEAVERHEAD RIVER	53.9	2	2	4
275	4-17-6944-000	S FK DEEP CREEK	MOUTH	HEADWATERS	15N	04E	24	SMITH RIVER	6.8	2	3	2
322	4-14-5480-002	S FK DUPUYER CREEK	NATIONAL FOREST	HEADWATERS	27N	09W	35	DUPUYER CREEK	4.3	2	4	2
DQH	3-17-6952-000	S FK DUTCHMAN CREEK	MOUTH	1.0 KM ABOVE MOUTH	07N	03W	03	DUTCHMAN CREEK	1.0	2	4	2
ADE	3-13-5400-001	S FK MADISON RIVER	MOUTH	RR LINE	13S	04E	11	MADISON RIVER	10.0	2	2	3
D48	2-06-6023-000	S FK ROSS FORK ROCK CREE	MOUTH	HEADWATERS	04N	17W	12	ROSS FORK ROCK CREEK	8.3	2	3	2
DC1	1-08-6700-001	S FK TRAIL CREEK	MOUTH	HEADWATERS	26N	11W	22	TRAIL CREEK	4.8	2	4	2
326	4-14-5680-002	S FK TWO MEDICINE RIVER	PIKE CREEK	HEADWATERS	30N	13W	33	TWO MEDICINE RIVER	15.0	2	3	2
BYD	3-17-7072-200	S FK WARM SPRINGS CREEK	NATIONAL FOREST	TRAIL XING	08N	03W	26	WARM SPRINGS CREEK	4.2	2	4	2
DBT	1-08-6030-001	SAGE CREEK	MOUTH	STATE LINE	37N	22W	09	N FK FLATHEAD RIVER	2.1	2	4	2
ALQ	7-21-0895-001	SARPY CREEK	MOUTH	RESERVATION	06N	37E	04	YELLOWSTONE RIVER	84.2	2	5	2
D4C	2-03-5175-002	SAWTOOTH CREEK	NATIONAL FOREST	HEADWATERS	05N	21W	09	BITTERROOT RIVER SEC	18.9	2	3	2
A5A	1-08-6120-000	SCALP CREEK	MOUTH	SOURCE	26N	11W	29	BOWL CREEK	4.0	2	4	2
DDM	1-08-6160-002	SCHAFER CREEK	0.15 KM BELOW ROUGE	1 KM ABOVE ROUGE CRE	26N	13W	03	M FK FLATHEAD RIVER	1.1	2	4	2
DD4	1-08-6160-003	SCHAFER CREEK	1 KM ABOVE ROUGE CRE	0.4 KM BELOW W FK	26N	13W	04	M FK FLATHEAD RIVER	4.8	2	4	2
317	4-14-4920-000	SCOFFIN CREEK	MOUTH	HEADWATERS	28N	08W	32	DUPUYER CREEK	11.3	2	3	2
A6B	1-08-6260-000	SERGEANT CREEK	MOUTH	SOURCE	25N	14W	16	SPOTTED BEAR RIVER	4.8	2	4	2
D4E	2-03-5275-002	SHEAFMAN CREEK	NATIONAL FOREST	HEADWATERS	07N	21W	29	BITTERROOT RIVER SEC	9.6	2	3	2
D4F	2-03-5325-000	SHEEPHEAD CREEK	MOUTH	HEADWATERS	01S	23W	17	NEZ PERCE FK BITTERR	12.3	2	3	2
DCK	1-08-6320-002	SHORTY CREEK	FALLS 1 KM ABOVE N F	HEADWATERS	35N	23W	07	WHALE CREEK	4.6	2	4	2
D49	2-05-6368-000	SIXMILE CREEK	MOUTH	HEADWATERS	15N	22W	34	CLARK FORK RIVER SEC	16.0	2	4	2
D4G	2-03-5500-000	SLATE CREEK	PAINTED ROCKS RESERV	HEADWATERS	02S	22W	02	W FK BITTERROOT RIVE	16.8	2	3	2
D2P	4-17-6832-006	SMITH RIVER SEC 02	SHEEP CREEK	FORT LOGAN BRIDGE	12N	04E	14	MISSOURI RIVER	24.5	2	2	3
BL8	1-11-6210-000	SOUTH CALLAHAN CREEK	MOUTH	STATE LINE	31N	35W	24	CALLAHAN CREEK	4.5	2	4	2
569	3-22-5940-000	SPRING CREEK & TRIBS	MOUTH	HEADWATERS	01N	09E	03	SHIELDS RIVER	8.0	2	3	2
D8P	1-08-6845-001	SPRUCE CREEK	MOUTH	2 KM ABOVE MOUTH	37N	22W	23	N FK FLATHEAD RIVER	2.0	2	4	2
D8S	1-08-6845-002	SPRUCE CREEK	2 KM ABOVE MOUTH	STATE LINE	37N	22W	14	N FK FLATHEAD RIVER	3.4	2	4	2
737	2-05-6064-001	ST REGIS RIVER	MOUTH	DE BORGIA	18N	27W	30	CLARK FORK RIVER	24.5	2	3	2
738	2-05-6064-002	ST REGIS RIVER	DE BORGIA	HEADWATERS	19N	30W	25	CLARK FORK RIVER	29.1	2	3	2
A58	1-08-6940-000	STADIUM CREEK	MOUTH	SOURCE	23N	15W	11	GORGE CREEK	4.8	2	4	2
985	1-11-6480-000	STANLEY CREEK	BULL LAKE	HEADWATERS	29N	33W	18	LAKE CREEK	8.0	2	4	2
D8R	1-08-6990-001	STARVATION CREEK	MOUTH	8 KM ABOVE MOUTH	37N	22W	25	N FK FLATHEAD RIVER	8.0	2	4	2

SERIAL	REG-DRAINAGE-WATER-REACH	STREAM NAME	LOWER REACH BOUNDARY	UPPER REACH BOUNDARY	-- LOWER -- TWN	RNG	SEC	TRIBUTARY TO	LENGTH (KM)	R V	S F	P S
DPJ	3-17-7312-003	STAUBACH CREEK	NATIONAL FOREST	FS RD XING	08N	01W	04	BEAVER CREEK	0.8	2	4	
179	5-22-6118-002	STILLWATER RIVER SEC 02	NATIONAL FOREST	8.0 KM ABOVE NATIONA	05S	15E	15	YELLOWSTONE RIVER	8.8	2	2	
DCZ	1-09-7020-001	STRAWBERRY CREEK	BOWL CREEK	TRAIL CREEK	26N	11W	20	M FK FLATHEAD RIVER	4.9	2	4	
DCX	1-08-7020-003	STRAWBERRY CREEK	0.1 KM ABOVE E FK ST	5.2 KM ABOVE E FK ST	27N	11W	28	M FK FLATHEAD RIVER	5.1	2	4	
DCW	1-09-7020-004	STRAWBERRY CREEK	5.2 KM ABOVE E FK ST	HEADWATERS	27N	11W	16	M FK FLATHEAD RIVER	2.3	2	4	
650	1-07-4580-001	SWAN RIVER SEC 02	SWAN LAKE	LINDBERGH LAKE	25N	18W	16	FLATHEAD RIVER	80.1	2	2	
D4I	2-03-6225-001	SWEATHOUSE CREEK	MOUTH	NATIONAL FOREST	08N	20W	30	BITTERROOT RIVER SEC	7.6	2	3	
D4J	2-03-6225-002	SWEATHOUSE CREEK	NATIONAL FOREST	HEADWATERS	08N	21W	29	BITTERROOT RIVER SEC	9.6	2	3	
A56	1-08-7140-000	TANGO CREEK	MOUTH	SOURCE	21N	15W	28	BIG SALMON RIVER	3.2	2	4	
DPK	3-17-7512-000	TEEPEE CREEK	MOUTH	FORKS 1.3 KM ABOVE M	08N	02W	21	MCCLELLAN CREEK	1.3	2	4	
327	4-14-6000-002	TETON RIVER SEC 01	HWY 221	CHOTEAU	24N	04W	23	MARIAS RIVER	16.1	2	3	
BP9	7-21-1070-000	THIRTEENMILE CREEK	MOUTH	MULLET SITE	18N	55E	36	YELLOWSTONE RIVER	19.3	2	4	
654	1-05-7248-001	THOMPSON RIVER SEC 01	MOUTH	MEADOW CREEK	21N	28W	18	CLARK FORK RIVER	43.1	2	2	
02J	2-05-7296-001	TIMBER CREEK	FS PROPERTY BOUNDARY	ABOUT 1 KM ABOVE RD	19N	30W	09	ST REGIS RIVER	3.0	2	4	
683	1-11-6920-000	TOBACCO RIVER	LIBBY DAM	FORTINE & GRAVE CREE	36N	27W	08	KOOTENAI RIVER	24.0	2	3	
D4O	2-03-6455-000	TOLAN CREEK	MOUTH	HEADWATERS	01N	19W	12	E FK BITTERROOT RIVE	13.3	2	3	
776	7-21-1150-001	TONGUE RIVER SEC 01	MOUTH	T & Y DAM	08N	47E	32	YELLOWSTONE RIVER	21.0	2	3	
777	7-21-1200-001	TONGUE RIVER SEC 02	BEAVER CREEK	INDIAN RESERVATION	01N	44E	27	YELLOWSTONE RIVER	17.6	2	3	
BQV	7-21-1200-002	TONGUE RIVER SEC 02	INDIAN RESERVATION	INDIAN RESERVATION	02S	44E	10	YELLOWSTONE RIVER	56.8	2	3	
BQW	7-21-1200-003	TONGUE RIVER SEC 02	INDIAN RESERVATION	TONGUE RIVER RESERVO	05S	42E	25	YELLOWSTONE RIVER	89.4	2	3	
778	7-21-1250-000	TONGUE RIVER SEC 03	TONGUE RIVER DAM	STATE LINE	08S	40E	13	YELLOWSTONE RIVER	22.2	2	4	
DCJ	1-08-7320-001	TRAIL CREEK	MOUTH	0.3 KM BELOW JEFF CR	26N	11W	16	STRAWBERRY CREEK	7.7	2	4	
D4P	2-03-6500-000	TRAPPER CREEK	MOUTH	HEADWATERS	02N	21W	27	W FK BITTERROOT RIVE	18.1	2	3	
A6P	1-08-7360-000	TRAPPER CREEK	MOUTH	SOURCE	27N	17W	32	WHEELER CREEK	4.8	2	4	
A60	1-08-7390-000	TROUT CREEK	MOUTH	SOURCE	29N	17W	07	HUNGRY HORSE RESERVO	4.8	2	4	
DCH	1-08-7400-001	TUCHUCK CREEK	MOUTH	HEADWATERS	37N	23W	33	TRAIL CREEK	6.5	2	4	
DCS	1-08-7480-003	TWENTYFIVE MILE CREEK	1 KM ABOVE MOOSE CRE	EAR CREEK	28N	14W	15	M FK FLATHEAD RIVER	2.0	2	4	
A6H	1-08-7500-000	TWIN CREEK	MOUTH	SOURCE	26N	16W	25	S FK FLATHEAD RIVER	24.1	2	4	
BQB	7-21-1290-003	UPPER SEVENMILE CREEK	MOUTH	RED BARN SITE	16N	55E	34	YELLOWSTONE RIVER	22.5	2	3	
D7A	2-05-7858-001	W FK BURNT FORK CREEK	FORKS	500 M ABOVE RD	17N	24W	15	NINEMILE CREEK	1.0	2	5	
AD9	2-05-7936-001	W FK FISH CREEK	MOUTH	HEADWATERS	13N	25W	06	FISH CREEK	20.9	2	3	
767	6-16-4060-002	W FK POPLAR RIVER	FT PECK INDIAN RESER	STATE LINE	33N	46E	11	POPLAR RIVER	95.6	2	4	
DDL	1-08-7670-001	W FK SCHAFER CREEK	MOUTH	3.2 KM ABOVE MOUTH	26N	13W	20	SCHAFER CREEK	3.2	2	4	
C7R	1-08-7630-002	WALTON CREEK	1ST TRIBUTARY ON N A	MOUTH OF CANYON AT K	32N	18W	06	LINCOLN CREEK	3.2	2	3	
D4R	2-03-6675-000	WATCHTOWER CREEK	MOUTH	HEADWATERS	01S	23W	15	NEZ PERCE FK BITTERR	12.5	2	3	
D62	2-04-5865-402	WET COTTONWOOD CREEK	BLM BOUNDARY	SOURCE	12N	10W	31	COTTONWOOD CREEK	9.1	2	3	
DA6	1-08-7700-001	WHALE CREEK	MOUTH	2 KM ABOVE WHALE BUT	36N	21W	30	N FK FLATHEAD RIVER	13.9	2	4	
DA5	1-08-7700-002	WHALE CREEK	2 KM ABOVE WHALE BUT	WHALE CREEK FALLS	36N	22W	30	N FK FLATHEAD RIVER	11.5	2	4	
A6E	1-08-7780-000	WHITCOMB CREEK	MOUTH	SOURCE	25N	13W	07	SPOTTED BEAR RIVER	6.4	2	4	
C8P	1-08-7820-001	WHITE RIVER	MOUTH	1.1 KM BELOW S FK WH	21N	13W	08	S FK FLATHEAD RIVER	18.8	2	3	
C8Q	1-08-7820-002	WHITE RIVER	1.1 KM BELOW S FK WH	NEEDLE FALLS	21N	13W	13	S FK FLATHEAD RIVER	44.8	2	3	
D6R	3-10-7920-002	WHITETAIL CREEK	SE CORNER SEC 36	N BOUNDARY SEC 4	03N	05W	36	JEFFERSON SLOUGH (BO	13.0	2	4	
917	1-11-7540-000	WIGWAM CREEK	STATE LINE	BLUEBIRD CREEK	37N	25W	01	KOOTENAI RIVER	8.4	2	3	
A63	1-08-7860-000	WILDCAT CREEK	MOUTH	SOURCE	29N	18W	30	WOUNDED BUCK CREEK	6.4	2	4	
DPN	3-17-8438-000	WILLARD CREEK	MOUTH	0.8 KM ABOVE MOUTH	08N	02W	21	MCCLELLAN CREEK	0.8	2	4	
D4S	2-03-7025-001	WILLOW CREEK	BN RAILROAD BRIDGE	NATIONAL FOREST	06N	20W	04	BITTERROOT RIVER SEC	11.2	2	3	
D4T	2-03-7025-002	WILLOW CREEK	NATIONAL FOREST	HEADWATERS	06N	19W	10	BITTERROOT RIVER SEC	9.6	2	3	
D4U	2-03-7100-000	WOODS CREEK	MOUTH	HEADWATERS	03S	22W	21	W FK BITTERROOT RIVE	10.4	2	3	
DZR	1-08-7920-001	WOUNDED BUCK CREEK	MOUTH	3.5 KM ABOVE MOUTH	29N	18W	17	HUNGRY HORSE RESERVO	3.6	2	3	
DZS	1-08-7920-002	WOUNDED BUCK CREEK	3.5 KM ABOVE MOUTH	WILDCAT CREEK	29N	18W	30	HUNGRY HORSE RESERVO	1.2	2	3	
D5D	2-06-7239-001	WYMAN CREEK	MOUTH	MOOSE CREEK	07N	17W	02	ROCK CREEK	5.3	2	3	
998	1-11-7740-000	YAAK RIVER SEC 01	MOUTH	YAAK FALLS	32N	34W	05	KOOTENAI RIVER	14.4	2	2	3
782	7-21-1400-002	YELLOWSTONE RIVER SEC 02	CARTERSVILLE DIVERSI	BIGHORN RIVER	06N	40E	14	MISSOURI RIVER	93.7	2	2	2
853	5-22-7028-001	YELLOWSTONE RIVER SEC 05	CLARKS FORK RIVER	PARK CITY	02S	24E	24	MISSOURI RIVER	19.6	2	2	3
854	5-22-7028-002	YELLOWSTONE RIVER SEC 05	PARK CITY	STILLWATER RIVER	03S	23E	05	MISSOURI RIVER	34.9	2	2	3
855	5-22-7043-000	YELLOWSTONE RIVER SEC 06	STILLWATER RIVER	BOULDER RIVER	02S	20E	29	MISSOURI RIVER	69.0	2	2	3
ABN	1-08-7960-002	YOUNGS CREEK	5.8 KM ABOVE MOUTH	FALLS	19N	12W	13	S FK FLATHEAD RIVER	13.0	2	3	2

Appendix B

Map of Value Class I Spring Creeks

Requiring Bridges to be Replaced with Bridges

Appendix C

List of FWP Criteria I.B.

(Warmwater) Streams Requiring Bridges

to be Replaced with Bridges

IB Streams Requiring Bridges To Be Replaced with Bridges

Stream Name	County	Reach Description
Battle Creek	Blaine	Mouth to T33N, R20E, S30
Beaver Creek	Phillips & Valley	Mouth to T31N, R35E, S21
Beaver Creek	Hill	Mouth to T31N, R15E, S21, except where culverts now exist.
Beaver Creek	Wibaux	MT-ND border to mouth of Rattlesnake Creek in T11N, R60E, Sec. 30.
Bennie Peer Creek	Richland	Mouth to MT-ND border
Big Sandy Creek	Chouteau & Hill	Mouth to T32N, R15E, S5
Big Muddy	Roosevelt & Sheridan	Mouth T28N, R55E, S28
Box Elder Creek	Carter	MT-SD border to mouth of Muskrat Creek in T4S, R58E, S35
Cabin Creek	Dawson & Prairie	Mouth to County Road Crossing in T12N, R55E, S27
Clear Creek	Blaine	Mouth to T33N, R18E, S29
Cottonwood Creek	Wibaux	Mouth to Road Crossing in T17N, R58E, S6
Crane Creek	Richland	Mouth to Gartside Reservoir in T21N, R58E, S16
Deer Creek	Dawson	Mouth to North Fork Deer Creek in T17N, R53E, S10
Dunlap Creek	Richland	Mouth to Road Crossing in T20N, R57E, S5
East Fork Poplar River	Daniels	Mouth to Canadian Border

IB Streams Requiring Bridges To Be Replaced with Bridges continued.

Stream Name	County	Reach Description
First Hay Creek	Richland	Mouth to tributary to First Hay Creek in T24N, R58E, S7
Fox Creek	Richland	All of stream - mouth to confluence of forks in T22N, R58E, S27
North Fork Fox Cr	Richland	Confluence with South Fork to T22N, R57E, S15
South Fork Fox Cr	Richland	Confluence with North Fork to tributary in T22N, R55E, S12 (one mile east of Lambert)
Frenchman Creek	Phillips	Mouth to T32N, R35E, S13
Hanging Woman	Rosebud	Mouth to confluence with Lee Creek in T6S, R43E, S32
Little Bighorn River	Big Horn	Mouth to Diversion Dam at Crow Agency in T3S, R34E, S1
~~Little Bighorn R~~	~~Big Horn~~	~~Mouth to Diversion Dam at Crow Agency in T3N, R34E, S1~~
Little Box Elder Creek	Hill	Mouth to T32N, R17E S4
Little Porcupine Creek	Valley	Mouth to T27N, R44E, S28
Little Porcupine Creek	Rosebud	Mouth to Rattlesnake Creek in T9N, R40E, S10
Little Missouri	Carter	Entire length of river in Montana.

IB Streams Requiring Bridges To Be Replaced with Bridges continued.

Stream Name	County	Reach Description
Little Beaver Cr	Carter & Fallon	MT-ND border to mouth of Russell Cr in T2N, R58E, S18
Lodge Creek	Blaine	Mouth to T33N, R19E, S26
O'Fallon Creek	Prairie, Custer & Fallon	Mouth to mouth of Timber Cr in T7N, R56E, S32
Otter Creek	Rosebud & Powder	Mouth to mouth of Threemile Creek in T4S, R45E, S3
Peoples Creek	Blaine & Phillip	Mouth to T31N, R26E, S29
Poplar River	Roosevelt & Daniels	Mouth to Canadian Border
Porcupine Cr	Valley	Mouth to T36N, R42E, S32
Pumpkin Creek	Valley	Mouth to T36N, R42E, S32
Red Rock Coulee	Blaine	Mouth to T33N, R19E, S17
Redwater River	McCone	Mouth to Town of Circle
Rock Creek	Valley	Mouth to T31N, R36E, S22
Rosebud Creek	Rosebud & Big Horn	Mouth to mouth of Dry Creek in T6S, R39E, S32
Sage Creek	Hill	Mouth to T30N, R13E, S14
Sandstone Creek	Fallon County	Mouth to mouth of South Sandstone Creek in T8N, R58E, S31
Smith Creek	Richland & Wibaux	Mouth to North Dakota Border

IB Streams Requiring Bridges To Be Replaced with Bridges continued.

Stream Name	County	Reach Description
Sunday Creek	Custer	Mouth to confluence of South and North Forks in T8N, R47E, S18
Thirteen Mile Cr	Dawson	Mouth to South Fork in T19N, R55E, S35
Thirty Mile Creek	Blaine	Mouth to T32N, R23E, S21
Upper Seven-Mile Creek	Dawson	Mouth to Lindsay Reservoir in T17N, R51E, S24 (1/2 mile south of town of Lindsay)
War Dance Creek	Dawson	Mouth to Fork of Creek in T18N, R56E, S1
West Fork Poplar River	Roosevelt & Dawson	Mouth to Hwy #248 Crossing near town of Richard
Wolf Creek River	Roosevelt	Mouth to T27N, R47E, S17

Appendix D

List of Montana Species of Special Concern

MONTANA FISHES OF SPECIAL CONCERN

Class A Limited numbers and/or limited habitats in both Montana and elsewhere in North America; elimination from Montana would be a significant loss to the gene pool of the species or subspecies.

Paddlefish*
Yellowstone cutthroat trout
Westslope cutthroat trout
Arctic grayling (fluvial)
Bull trout

Class B Intermediate between class A & C. Limited numbers and/or habitats in Montana; fairly widespread and fair numbers in North America as a whole. Elimination from Montana would be at least a moderate loss to the gene pool of the species or subspecies.

Interior redband trout
Sturgeon chub*
Sicklefin chub*

Class C Limited numbers and/or limited habitats in Montana; widespread and numerous in North America as a whole. Elimination from Montana would be only a minor loss to the gene pool of the species or subspecies.

Shortnose gar*
Pearl dove
Northern redbelly dace
Trout - perch
Shorthead sculpin
Spoonhead sculpin
Blue sucker*

* Large river or reservoir species living only in waters where culverts would not be feasible.

Appendix E

Chronological Summary of

Fisheries Task Force Activities

FWP/MDT Fisheries Task Force
Meeting Summary

The FWP/MDT Fisheries Task Force was implemented May 1, 1995, jointly by the Director's of Montana Fish, Wildlife & Parks (FWP) and the Montana Department of Transportation (MDT).

Members of the Task Force, as originally implemented, consisted of the following:

FWP- Phil Stewart, Miles City, Co-Chair
George Liknes, Great Falls
Scott Rumsey, Kalispell
Don Peters, Missoula
Ken Chrest, Helena Consultant

MDT- Gordon Stockstad, Helena, Co-Chair
George Swartz, Missoula
Mark Traxler, Helena
Carl Peil, Helena
Joe Kolman, Helena
Ben Dean[4], Helena

The group has met a total of nine times beginning with the first meeting on June 27, 1995. Meeting minutes have been recorded for each meeting, distributed, reviewed prior to and approved at the beginning of each subsequent meeting. Following is a *brief* summary of business conducted at each meeting to date:

June 27, 1995

Developed Draft Goal Statements

Compiled sixteen objectives divided into six categories, based on identified interests, issues, conflicts, challenges and opportunities.

August 22, 1995

Setup and Agreed to Future Meeting Format

Revised and agreed to: the Goal Statement, Objective 1.A., and Objective 2.C. Accepted Goal and Objectives.

[4]At the second meeting of the group (August 22, 1995), it was agreed to add one additional representative from MDT Construction. Also, participating in an advisory (non-voting) capacity, are Kirk Eakin and Dick McIntyre from MDT and Glenn Phillips from FWP.

Agreed the first work priority of the group would be Category 2. ("Fish Habitat protection:), with emphasis on Objective 2.B., ("develop Criteria to determine type of stream crossing (bridge, culvert, culvert extension) to be used").

October 31, 1995

Focused on Objective 2.B. "Develop criteria to determine type of stream crossing...to be used."

Agreed that each agency would prepare a rough draft of their criteria for stream crossings. These drafts were circulated for comment prior to the next meeting.

January 23, 1996

Focused on review of each agency's draft criteria.

MDT Criteria (1/11/96 draft) for Objective 2.B. was reviewed and accepted as revised and noted in the meeting minutes for 1/23/96 and 3/19/96.

FWP Criteria (1/16/96 draft) for Objective 2.B. was reviewed and revised for further discussion at the next meeting.

March 19, 1996

Focused on review and discussion of FWP Criteria (3/4/96 draft) for Objective 2.B.

FWP Criteria for Objective 2.B. reviewed and revised for further discussion at the next meeting.

May 30, 1996

FWP Criteria (5/17/96 draft) for Objective 2.B. reviewed, discussed and accepted as revised and noted in the meeting minutes for 5/30/96).

Item II.E. of the FWP Criteria was deleted at the 3/12/96 meeting and became the 1st draft (5/30/96) of MDT's "Detour, Haul Road or Ford Facilities Construction Adjacent to Streams or Ephemeral Drainages." This draft was reviewed, discussed and revised for further review at the next meeting.

The 1st draft (5/14/96) of MDT's "Procedure for Early Coordination..." was reviewed and revised for further discussion at the next meeting.

August 6, 1996

The 2nd draft (8/1/96) of MDT's "Procedure for Early Coordination and Review of Proposed

Transportation Projects" was reviewed and accepted for use on a one-year trial basis. Procedure to also include a checklist to be formulated by the project biologists to facilitate information gathering.

Focused on 2nd draft (7/29/96) of MDT's "Detour, Haul Road or Ford Facilities..." review and revisions were agreed to for final draft to be re-circulated through MDT. 3rd draft (8/12/96) was circulated for comments within MDT. Comments were requested by 9/6/96.

Regarding Objective 2.A. ("Develop mutually agreeable fish passage criteria for both eastern and western Montana."), draft Chapter 15 of the AASHTO guide was discussed, with MDT to keep the group informed of further developments. MDT and FWP agreed to prepare a video of selected problem sites for the next meeting.

FWP discussed results of a survey of FWP biologists to identify areas where maintenance should be improved and areas that are trouble spots.

December 12, 1996

Focus was on the video presentation prepared by FWP and MDT. Discussion of each site included nature of the problem and possible solutions. No decisions were reached.

Final draft (8/12/96) of "Detour, Haul Road or Ford Facilities..." was tabled to the next meeting.

February 27, 1997

Focused on discussion/presentation regarding Objectives 2.D. ("Define ways to decrease need for channel changes") and 2.E. ("Minimize loss of habitat at bridges and longitudinal encroachments"). Item II of the 2/2/797 meeting minutes (not yet approved) summarizes discussion.

Comments provided by the group concluded that longitudinal flood encroachments (LFE's) can only be modified on a case-by-case basis and the best solution may be early coordination and information exchange between agencies, with meaningful comment by FWP to MDT at the project alignment and grade stage. No agreement was reached by the group.

A work group will prepare a problem statement for discussion at the next meeting regarding "Salmonid passage Procedural Criteria" (Objective 2.A.).

The group tentatively agreed to begin identifying Task Force Recommendations to be put forth in a report format.

May 22, 1997

The group discussed FWP's recent presentation to the MDT Maintenance Chief's meeting. The presentation dealt with site specific problems resulting from concentrations of sanding material along and into streams. The group decided to formulate a plan for getting MDT maintenance staffs and regional FWP biologists together to become acquainted and to identify problems and solutions. This plan will be discussed at the next meeting.

The group discussed the possible development of a Salmonid Passage/Procedural Criteria Manual and the progress of the work group assigned to preparing a problem statement and outline. Estimated to cost $10,000-$20,000; need to select specific available technical materials for consultatnt review to determine feasibility of creating a composite manual to compliment the AASHTO Chapter 15. MDT and FWP are agreeable to cost share a mutually agreeable consultant for this review. This issue was continued to the next meeting agenda.

The group reviewed and discussed all past Task Force actions and recommendations: accepted the final draft of the "Detour, Haul Road or Ford Facilities..." document; determined that a draft compilation of Task Force recommendations in report format will be prepared for the next meeting.

July 15, 1997

The group discussed the draft Report of Recommendations and made suggestions for final format and contents. Another draft report will be circulated for comment, then possibly distributed to the Fisheries Division Administrator and the Environmental Services Administrator for agency action on the Task Force Recommendations.

The Salmonid Passage/ Procedure Manual.group will continue to work on evaluation and development of the manual. This continuing effort is a Task Force Recommendation.

The plan for a series of MDT/FWP Maintenance Area/Regional meetings was approved by the group and will be included in the Task Force Report of Recommendations.

The group endorsed the continuation of an interagency "core group" and will provide a recommendation for who should comprise the group from each agency. This group would oversee continuing efforts such as the Salmonid Passage/Procedural Manual and development of all other approved Task Force recommendations.