

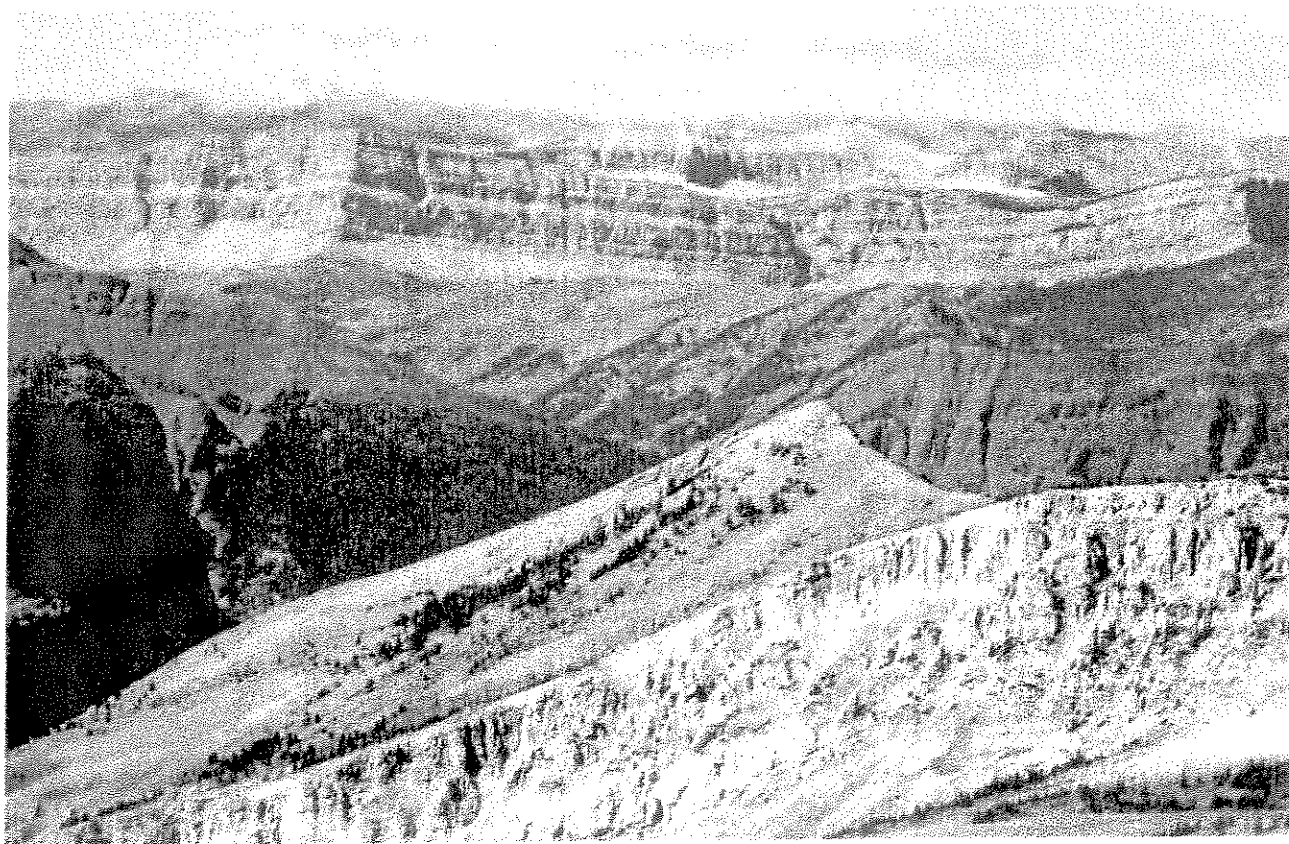


*Montana Fish,  
Wildlife & Parks*



**COOPERATIVE AGREEMENT FOR  
FISH, WILDLIFE AND HABITAT MANAGEMENT  
ON NATIONAL FOREST WILDERNESS LANDS IN MONTANA**

**June 2008**





# Montana Fish, Wildlife & Parks

## INTEROFFICE MEMORANDUM

Ref:DO069-09  
February 12, 2009

**TO:** FWP Management Team

**FROM:** Joe Maurier 

**SUBJECT:** Montana Fish, Wildlife and Parks joint agreement with the US Forest Service on:  
FISH AND WILDLIFE MANAGEMENT AGREEMENT IN WILDERNESS

You may recall from past Management Team discussions on Wilderness Fish and Wildlife activities that our goal was to adapt the AFWA National Agreement into a state agreement. Well after almost three years, FWP and the Regional Office of the Forest Service signed the document last November.

Our plan is to conduct training sessions to educate and inform FWP folks on how to coordinate on wilderness management actions in the future. Our hope is to conduct one or two workshops around the state over the next couple of years.

A copy of the agreement is attached to this memo for your use. Thanks to all who helped work on this document.

Enc.



*Montana Fish,  
Wildlife & Parks*



COOPERATIVE AGREEMENT FOR FISH,  
WILDLIFE AND HABITAT MANAGEMENT ON NATIONAL FOREST WILDERNESS  
LANDS IN MONTANA

June 2008

These policies and guidelines are intended to serve as a framework for enhanced cooperation between Montana Fish, Wildlife and Parks and the Forest Service Region 1 in the management of fish, wildlife and habitat on National Forest administered wilderness in Montana.

  
Tom Tidwell, Regional Forester, Northern Region  
USDA Forest Service

11/12/08  
Date

  
M. Jeff Hagenor, Director, Montana Fish, Wildlife and Parks

11/12/08  
Date

# COOPERATIVE AGREEMENT FOR FISH, WILDLIFE AND HABITAT MANAGEMENT ON NATIONAL FOREST WILDERNESS LANDS IN MONTANA

## A PREFACE

### BACKGROUND AND PURPOSE

In June 2006, the Association of Fish and Wildlife Agencies (AFWA), the US Forest Service (USFS) and Bureau of Land Management (BLM) signed a revised agreement establishing policies and guidelines for management of fish and wildlife in congressionally designated wilderness areas.

That agreement recognized the importance of communication between individual states and the USFS and directed the agencies to establish State specific agreements. In the spirit of this direction, this cooperative agreement between Montana Fish, Wildlife and Parks (MFWP) and the United States Forest Service (USFS) Northern Region is developed. Though the agencies have different authorities and responsibilities, the fish, wildlife and habitat resources will benefit most through a cooperative approach to management.

The Cooperative Agreement represents a collective vision of our agencies responsibilities on management of fish, wildlife and habitat in Montana.

### A. RELATIONSHIP TO THE WILDERNESS ACT:

The 1964 Wilderness Act defines wilderness, describes the purpose for wilderness, and directs the wilderness management agencies to protect wilderness character. This Fish, Wildlife and Habitat Management Cooperative Agreement reflect those provisions of the Wilderness Act of 1964:

The purpose of Wilderness is, "In order to assure that an increasing population...does not occupy and modify all areas...leaving no lands designated for preservation and protection in their natural condition, it is hereby declared to be the policy of the Congress to secure for the American people of present and future generations the benefits of an enduring resource of wilderness." [Section 2 (a)] The Act defines Wilderness as, "A wilderness, in contrast with those areas where man and his works dominate the landscape, is hereby recognized as an area where the earth and its community of life are untrammeled by man, where man himself is a visitor who does not remain." Wilderness is further defined as an area ... "which is protected and managed so as to preserve its natural conditions and which ... generally appears to have been affected primarily by the forces of nature, with the imprint of man's work substantially unnoticeable..." [Section 2 (c)]. Further, the Act defines the purposes of wilderness in Section 4 and specifically states that, "Except as otherwise provide in this Act, each agency administering any area designated as wilderness shall be responsible for preserving the wilderness character of the area.....". [Section 4 (b)]

Though the Wilderness Act does not specifically define wilderness character, the agencies have determined that wilderness character may be defined by the four statutory qualities of wilderness: untrammeled, natural, undeveloped and outstanding opportunities for solitude or a primitive and unconfined type of recreation. These qualities are defined in **ATTACHMENT D** to this document.

When projects are proposed in wilderness, affects to these four wilderness qualities must be assessed and mitigated.

It is important to note that the Wilderness Act also specifically acknowledges the role the States have in management of fish and wildlife. Section 4(d)(7) of the Wilderness Act provides that "nothing in this Act shall be construed as affecting the jurisdiction or responsibilities of the several States with respect to wildlife and fish in the national forests."

The Forest Service and Montana Fish, Wildlife and Parks acknowledge that each agency has important management responsibilities relating to fish and wildlife resources in wilderness and will endeavor to work cooperatively to fulfill these responsibilities while protecting wilderness character.

#### **B. STATEMENT OF MUTUAL INTERESTS AND BENEFITS:**

The USFS is responsible for the management of National Forest System (NFS) lands for a variety of uses and activities including wilderness stewardship and protection. USFS administers federally designated wilderness areas in accordance with the Wilderness Act, including supporting the State's fish and wildlife objectives; to the extent such objectives are consistent with the Act.

Montana Fish, Wildlife & Parks, is responsible for the protection, preservation and management of fish and wildlife resources throughout the state on both private and public lands. Many species of fish and wildlife utilize private and public lands, including Wilderness, at least on a seasonal basis, which adds to the complexity of fish and wildlife management.

Both agencies acknowledge each other's interests and agree that it is to the benefit of the resource to work collaboratively to manage the fish and wildlife resources and their habitat in a manner that is compatible with the purpose and definition of wilderness as described in the 1964 Wilderness Act.

In consideration of the above premises, the parties agree as follows:

#### **C. THE USFS AND MFWP SHALL:**

Encourage new MFWP and USFS employees with responsibilities for wilderness management to attend wilderness training.

Conduct annual coordination meetings between respective local Forests or Ranger Districts and MFWP Regions to identify opportunities, and jointly pursue projects that meet mutually beneficial fish, wildlife and habitat objectives, subject to compliance with applicable State and Federal law. These meetings can occur in conjunction with annual wilderness coordination meetings as long as adequate time is dedicated to discussion of joint interests.

Annual meetings should include appropriate line officers and wilderness managers, fisheries/wildlife personnel, enforcement personnel from USFS, and MFWP Regional Supervisors, wardens, biologists and appropriate division and Directors Office personnel.

Annual meetings will include at a minimum:

- MFWP and USFS reports on previous year projects and accomplishments.
- Presentation of general information on proposals or management actions not requiring Forest Service line officer approval for the upcoming year or future out-year projects.
- Discussions of compliance with Montana Environmental Policy Act (MEPA) and National Environmental Policy Act (NEPA), the Minimum Requirements Decision Process (MRDP) and the approval process for projects or management actions that require USFS approval.
- Forest Service projects or management actions, such as decisions on outfitter and guide service days, locations, camps, etc. that may have an effect on wildlife or fisheries should be discussed.

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In addition to the annual meetings, coordination between MFWP and USFS enforcement personnel, wilderness managers, and biologists should occur on a regular basis.

#### **D. GENERAL POLICY:**

The USFS and MFWP recognize that angling, hunting, trapping, and recreational boating (non-motorized) are all legitimate activities in wilderness. Management activities related to these activities will be planned and implemented in conformance with the Wilderness Act and other applicable state and federal laws. Fish and wildlife management activities will emphasize natural processes, to the greatest extent possible, and will be guided by the principle of doing only the minimum necessary to recover, conserve or maintain fish and wildlife resources, while protecting wilderness character.

Section 4(c) of the Wilderness Act states: "Except as specifically provided for in this Act, and subject to existing private rights, there shall be no commercial enterprise and no permanent road within any wilderness area designated by this Act and, except as necessary to meet minimum requirements for the administration of the area for the purpose of this Act (including measures required in emergencies involving the health and safety of persons within the area), there shall be no temporary road, no use of motor vehicles, motorized equipment or motorboats, no landing of aircraft, no other form of mechanical transport, and no structure or installation within any such area."

Proposed State fish and wildlife management activities that may involve uses generally prohibited under Section 4(c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency. The USFS will consult closely with MFWP and give careful consideration to State fish and wildlife interests when considering proposed action. A process has been developed to assist a project manager in determining whether an action is the minimum necessary, and if so, the minimum tool to complete the action. That process is described in the attached Minimum Requirements Decision Process (MRDP) outline.

The MFWP project manager should complete the MRDP with assistance from the USFS. If the action is determined to be the minimum necessary, final decision may be subject to the further analysis under the NEPA and the MEPA. MFWP and USFS will work cooperatively to determine who should take the lead in the analysis process and to appoint an interdisciplinary team consisting

of personnel from both agencies, where feasible.

Some MFWP fish and wildlife management action in wilderness do not require USFS authorization. A list of those actions is found below. More detailed information about specific actions is found in Section F. of this Agreement or Forest Service Manual 2320.

For purposes of this document, indigenous wildlife and fish species are those that naturally occur within a wilderness area and that were not introduced by humans. Additionally, fish species introduced for management purposes prior to wilderness designation may be managed as indigenous fish species if the species is likely to survive. The State has the responsibility to make the determination as to which wildlife and fish species are indigenous.

Proposed fish, wildlife or habitat management actions by the USFS should be discussed and agreed to by MFWP.



## **E. PROCESS FOR ADDRESSING MANAGEMENT PROPOSALS**

This Agreement establishes a standard process for addressing fish, wildlife and habitat management proposals and resolving related issues raised by either agency. The process is described below and in the flowchart in **ATTACHMENT C**.

In accordance with the national agreement between the federal agencies and the AFWA, dated June 2006, the following actions require federal agency approval:

- Use of motorized equipment
- Landing of aircraft
- Any kind of mechanical transport
- Temporary or permanent facility development, structures or installations
- Use of chemicals (pesticides or herbicides)
- Habitat alteration
- Stocking previously unstocked waters

Transplanting wildlife (except threatened and endangered species) requires pre-approval from the federal agency. The MT FWP has concern over this requirement in the national agreement and has elevated this concern to the national AFWA organization for further discussion with the USFS Washington Office Staff. Until that is resolved at the national level, in Montana, any wildlife transplants in wilderness (except threatened and endangered species) will be discussed and mutually agreed upon by the USFS and the MTFWP.

\*See specific agency policy to determine what level of authority is required for these actions

The following actions do not require federal agency approval (if project does not include use of motorized equipment, mechanical transport, landing of aircraft, structures or installations):

- Aerial counts and observation
- Capturing and marking animals and radio telemetry
- Transplanting threatened and endangered species into previously occupied habitat
- Angling, hunting, trapping
- Gill-netting; battery operated electrofishing
- Fish stocking where established prior to designation using the method that was established at the time of designation (even if that method involved motorized equipment or mechanical transport)
- Changes in fish species stocked in areas where stocking was established prior to designation.

The following is a step by step explanation of the NEPA process to follow when there is a project proposal. A visual of this process can be found in **ATTACHMENT C**.

**Step 1. Is the action adequately covered by previous NEPA analysis, such as in a wilderness or land management plan? (See ATTACHMENT B for Forest and Wilderness Plan direction)**

If yes, the project can be implemented without further analysis. For instance, fish stocking is allowed where it was established prior to wilderness designation by means that were traditionally used. The MFWP will make available to the Forest Service a stocking schedule so that in any given year the line officer will know which lakes will be stocked and by what means. The line officer will work with the MFWP to identify mitigation measures to protect wilderness character and to minimize effects to the public.

If no, the MFWP should proceed through the flowchart.

Step 2. If the action is not adequately covered by NEPA, MFWP responds to the question; can this project be accomplished outside of wilderness and still meet stated goals and objectives? If yes, the project should be implemented outside of wilderness. If not, the MFWP, with assistance from the USFS should complete the minimum requirement decision process as described in Attachment A of the National AFWA agreement dated June 2006. Though the question, "can this project be accomplished outside of wilderness" is included in the MRDP, it is significant enough to warrant it as a first step in this flowchart. If the project can be accomplished outside of wilderness, there is no need to proceed with the MRDP.

Step 3. If the MRDP indicates that the project is necessary in wilderness but no federal agency approval is required, notify the line officer and discuss implementation.

If the MRDP identifies the need for motorized equipment and/or mechanical transport or the activity requires federal agency approval, an analysis is required under the NEPA. The first step in the NEPA process is public scoping which helps determine the extent of analysis required. The MFWP should develop a purpose and need for the project at this time. The purpose and need for the project will define the level of scoping necessary.

See attachment D for more information on NEPA requirements and scenarios.

## **F. PROJECT IMPLEMENTATION**

The following topics should be reviewed and discussed during annual coordination meetings or during any discussions relative to projects proposed by the State to meet fish and wildlife conservation objectives in wilderness:

### **1. Use of Motorized Equipment**

As outlined in Section E. General Policy, the States' fish and wildlife management activities within wilderness can be accomplished with motor vehicles, motorized equipment, or mechanical transport, only if these devices are necessary to meet the minimum requirements for the administration of the area as wilderness or are specifically permitted by other provisions of the Act. Any such use should be rare and temporary; no roads can be built; and proposals for use of motorized equipment will be considered and may be authorized by the Federal land management agency, in cooperation with the State, through application of the MRDP as outlined in Section E., General Policy. Any use of motorized equipment or mechanical transport requires advance approval by the Federal administering agency.

### **2. Application of Pesticides**

The use of pesticides may be necessary in management of fish and wildlife resources, and their use must be approved by the Federal administering agency.

#### Guidelines for Application of Pesticides

- 1) Use pesticides only where other measures are impractical.
- 2) Use only registered pesticides according to label directions and subject to the following restrictions:
  - a) Pesticides may be applied only by certified applicators.
  - b) The placement of pesticides shall be accurately indicated on the largest scale USGS map available.
  - c) Place warning signs at the entrance to the area where pesticides are being used to warn the public of any dangers to themselves or their pets.
  - d) In the selection of pesticides, give preference to those that will have the least impact on non-target species and on the wilderness environment.

### **3. Fish and Wildlife Research and Management Surveys**

Research and evaluation related to fish and wildlife, their habitats and the recreational users of these resources are legitimate activities in wilderness when conducted in a manner compatible with the area as wilderness. Coordination of all research and survey activities is essential between State and Federal agencies. Methods that temporarily infringe on the wilderness environment may be authorized by the Federal administering agency if alternative methods or other locations are not

reasonably available. Research or management survey activities that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

Helicopters and fixed-wing aircraft over flights may be used to conduct fish and wildlife research and management activities. Use of aircraft for these activities will be coordinated among the State and Federal agencies to minimize conflicts with other wilderness uses. To the greatest extent possible, aircraft must be used in a manner that minimizes disturbance to wilderness character and to human and wildlife use of the wilderness.

Aerial counts and observations (i.e. surveys) of wildlife are allowed in the management of fish and wildlife resources in wilderness. Capturing and marking of animals, radio telemetry, and occasional installations (such as shelters for cameras and scientific apparatus and enclosures essential for wildlife research or management surveys) that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

#### Guidelines for Fish and Wildlife Research and Management Surveys

- a) Obtain specific written approval or permits from the Federal administering agency before erecting any structure, enclosure, or exclosure.
- b) Locate and construct all structures so as to make them unobtrusive on the landscape.
- c) Construct structures of native materials or camouflage to make them blend with their natural surroundings.
- d) Plan aircraft flights over wilderness to minimize disturbance. Consider time of day, season of the year, route and altitude of flight, and location of landing areas on the perimeter of the wilderness.
- e) Research projects underway when a wilderness is designated may continue, but research methods should be modified, if possible, to minimize disturbance of the wilderness environment.
- f) Installation of base stations for monitoring of radio-instrumented animals will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.
- g) The Federal administering agency should only approve methods that minimize the impact on the wilderness environment to the greatest extent possible.

#### **4. Facility Development and Habitat Alteration**

Facility development and habitat alteration may be necessary to alleviate adverse impacts caused by human activities on fish and wildlife, including human/wildlife conflicts, and to conserve fish and wildlife resources in wilderness. Facility development and habitat alteration that would involve

uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy. For the benefit of wildlife that spend only part of the year in wilderness, give first priority to locating facilities or habitat alterations outside wilderness.

Flow-maintenance dams, water developments, water diversion devices, ditches and associated structures, and other fish and wildlife habitat developments necessary for fish and wildlife management (which were in existence before wilderness designation) may remain in operation.

Maintenance of existing water supplies and development of additional water supplies, including wildlife water developments, that would involve uses generally prohibited under Sec. 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

Clearing of debris that impedes the migratory movements of fish on primary spawning streams that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

#### Guidelines for Facility Development and Habitat Alteration

- a) Submit proposals for new structures or habitat alterations to the Federal administering agency for approval.
- b) Build or maintain new and existing structures permitted for wildlife management in a manner that minimizes the visual impacts on the landscape.
- c) Limit clearing of debris from spawning streams to those identified in the wilderness management plan as being critical to the propagation of fish.
- d) Proposals involving use of motorized equipment generally prohibited under Sec. 4(c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.
- e) If it is necessary to restore essential food plants after human disturbance, use only indigenous-plant species. Plant species that naturally occurred or occur in a wilderness area and were not introduced by humans are considered indigenous.

### **5. Threatened and Endangered Species**

Many wilderness areas provide important habitat for federally listed threatened and endangered species of wildlife. For purposes of this document, threatened and endangered species means federally listed species applicable to the geographic area. Actions necessary to conserve or recover threatened or endangered species, including habitat manipulation and special conservation measures, that involve uses generally prohibited under Section 4 (c) of the Wilderness Act, will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

### Guidelines for Threatened and Endangered Species

- a) When alternative areas outside of wilderness offer equal or better opportunities for habitat improvement or species conservation, actions to recover threatened or endangered species outside of wilderness should be considered first, but this does not preclude analyzing or implementing projects in wilderness.
- b) Threatened and endangered species may be transplanted into previously occupied habitat within wilderness. Proposals that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.
- c) Proposals for transplants of indigenous species and proposals for habitat improvement projects require close coordination and cooperation between the State and Federal administering agencies.
- d) To prevent Federal listing, manage and conserve indigenous species that could become threatened or endangered.

### **6. Angling, Hunting, and Trapping**

Angling, hunting, and trapping are legitimate activities in wilderness subject to applicable State and Federal laws and regulations.

### **7. Population Sampling**

Scientific sampling of fish and wildlife populations is an essential activity in wilderness.

### Guidelines for Population Sampling

- a) When possible, use only methods that are compatible with the wilderness environment.
- b) Gill netting, battery-operated electrofishing, and other standard techniques of population sampling that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy. (See Montana State Agreement, Section E or Attachment C for clarification).
- c) Closely coordinate sampling activities with the Federal administering agency and schedule them to avoid heavy public-use periods.

## **8. Chemical Treatment**

Chemical treatment may be necessary to prepare waters for the reestablishment of indigenous fish species, consistent with approved wilderness management plans, to conserve or recover federally listed threatened or endangered species, or to correct undesirable conditions resulting from human activity. Proposals for chemical treatments will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy. Any use of chemical treatments in wilderness requires prior approval by the Federal administering agency.

### Guidelines for Chemical Treatment

- a) Use only registered pesticides according to label directions.
- b) In selecting pesticides, give preference to those that will have the least impact on non-target species and on the wilderness environment.
- c) Schedule chemical treatments during periods of low human use, insofar as possible.
- d) Immediately dispose of fish removed in a manner agreed to by the Federal administering agency and the State agency.

## **9. Spawn Taking**

The collection of fish spawn in wilderness shall be permitted when alternative sources are unavailable or unreliable, or where spawn taking was an established practice before wilderness designation.

### Guidelines for Spawn Taking

- a) Spawn taking proposals that would involve uses generally prohibited under Section 4(c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.
- b) Use of techniques and facilities necessary to take spawn, which were in existence before wilderness designation, may continue as provided for in the wilderness management plan.
- c) Facilities for spawn-taking stations approved after wilderness designation must be removed after the termination of each season's operation.
- d) Decisions to prohibit spawn taking, where it was an established practice before wilderness designation, will be made in close cooperation and coordination between the Federal administering agency and the State agency.

## **10. Fish Stocking**

Fish stocking may be conducted by the State agency in coordination with the Federal administering

agency to perpetuate or recover a threatened or endangered species, or to reestablish or maintain indigenous fish species. Any species of fish introduced for management purposes prior to wilderness designation may be managed as indigenous fish species if the species is likely to survive. State agencies may continue to stock those waters traditionally stocked prior to wilderness designation. State and Federal agencies should carefully evaluate stocking those waters that consistently require supplementation for reasons other than angler-induced mortality.

Selected species for stocking will be determined by the State agency in close cooperation and coordination with the Federal land management agency. In order of preference for stocking fish species are (a) Federal threatened or endangered species, and (b) indigenous species. Numbers and size of fish and time of stocking will be determined by the State in coordination with Federal agencies.

Lakes and streams currently without fish may be considered for stocking, if there is mutual agreement that no appreciable loss of scientific values or adverse effects on wilderness resources will occur. It is generally undesirable to stock previously unstocked waters. Because these areas generally reflect natural ecosystem processes, they may possess high scientific values. Proposals for fish stocking that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

#### Guidelines for Fish Stocking

- a) The State agency shall make fish stocking schedules available to the Federal administering agency, indicating what species and numbers are planned for each water within a wilderness.
- b) Adjust stocking rates to minimize the likelihood of exceeding the carrying capacity of the water being stocked so as to reduce the chance of producing a population imbalance.

### **11. Aerial Fish Stocking**

Aerial stocking of fish shall be permitted for those waters in wilderness where this was an established practice before wilderness designation or where other practical means are not available. Proposals that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

#### Guidelines for Aerial Fish Stocking

- a) The State agency will supply the Federal administering agency a list of those waters where stocking with aircraft was an established practice before wilderness designation, indicating the type of aircraft used (fixed-wing or helicopter).
- b) To stock waters that had not been aerially stocked before wilderness designation, the State agency will demonstrate to the Federal administering agency the need for using aircraft.
- c) Plan aircraft flights over wilderness to minimize disturbance. Consider season of year, time of day, route and altitude of flight, and location of landing areas on the perimeter of the



wilderness.

## **12. Transplanting Wildlife**

Transplants (removal, reintroduction, or supplemental introduction) of terrestrial wildlife species in wilderness may be permitted if necessary: (a) to perpetuate or recover a threatened or endangered species; (b) to restore the population of an indigenous species; or (c) to manage wildlife populations in accordance with the States' wildlife populations objectives.

Transplants shall be made in a manner compatible with the wilderness character of the area. Transplant projects require advance written approval by the Federal administering agency. Follow-up monitoring surveys that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

**\*\* See special note under E. Project Proposals**

### Guidelines for Transplanting Wildlife

Proposals for motorized methods and temporary holding and handling facilities that involve uses generally prohibited under Sec. 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

## **13. Wildlife Damage Control**

Wildlife damage control in wilderness may be necessary to conserve federally listed threatened or endangered species, to prevent transmission of diseases or parasites affecting wildlife and humans, or to prevent serious losses of domestic livestock. Refer to MOUs between the Animal and Plant Health Inspection Service (APHIS) and the Federal administering agencies regarding permissible action in wilderness. Proposals that would involve uses generally prohibited under Section 4 (c) of the Wilderness Act will be considered and may be authorized by the Federal administering agency through application of the MRDP as outlined in Section E., General Policy.

### Guidelines for Wildlife Damage Control

- a) Acceptable control measures include lethal and nonlethal methods, depending upon need, justification, location, conditions, efficiency and applicability of State and Federal laws.
- b) Control measures will be implemented by APHIS, the Federal administering agency, the State fish and wildlife agency, or other approved State agency, pursuant to cooperative agreements or MOUs.
- c) Direct control at individual animals causing the problem.
- d) Use only the minimum amount of control necessary to solve the problem.

## **14. Visitor Management to Conserve Wilderness Wildlife Resources**

Many wildlife species are sensitive to human encroachment on their ranges. Grizzly bear, bighorn

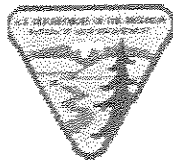
sheep, elk, mountain goat, birds of prey (such as peregrine falcon and bald eagle), other migratory and resident birds, and certain other wilderness wildlife species may be sensitive to excessive human disturbance, particularly during certain seasons of the year.

#### Guidelines for Visitor Management to Conserve Wilderness Wildlife Resources

- a) Specify in the wilderness management plan the management actions necessary and the agency responsible to reduce conflicts with wildlife.
- b) If and when it becomes apparent that public use is significantly degrading the wilderness wildlife resources, limitations on visitor use may be imposed and enforced by the appropriate Federal administering agency in coordination with the State wildlife agency. Any limitations will be applied equitably to all wilderness visitors.

#### **15. Management of Fire**

The objectives of fire management in wilderness are to: (a) permit lightning-caused fires to play, as nearly as possible, their natural ecological role within wilderness and (b) reduce, to an acceptable level, the risks and consequences of wildfire within wilderness or escaping from wilderness. Fire ignited by lightning may be permitted to burn or will be suppressed as prescribed in an approved plan. Prescribed fires may be permitted to reduce unnatural buildup of fuels only if necessary to meet objectives (a) and (b) above and require approval from the Federal administering agency.



## ATTACHMENT A

### Minimum Requirements Decisions Process Outline

Pursuant to the Policies and Guidelines for Fish and Wildlife Management in National Forest and Bureau of Land Management (BLM) Wilderness, the intent of this attachment is to document the analysis process used by the BLM and Forest Service, in cooperation with the State fish and wildlife agencies, to determine the "minimum requirements" for accomplishing fish and wildlife projects and activities within a wilderness area. It is also intended to reemphasize that continued State and Federal coordination and cooperation is necessary to meet each agency's management objectives in wilderness.

The following outlines the "Minimum Requirements Decisions Process" (MRDP) for certain proposed projects within wilderness. For certain projects proposed by State fish and wildlife agencies, this analysis will be completed by the applicable State agency in coordination with the responsible Federal agency. Unless specifically exempted by law, all proposed projects and activities within wilderness involving the eight Wilderness Act prohibitions listed below will require the completion of the MRDP to determine whether they can be authorized in wilderness. Section 4(c) of the Wilderness Act lists ten prohibited uses in wilderness. Eight of these prohibited uses could be allowed if they are *"...necessary to meet the minimum requirements for the administration of the area for the purpose of this Act (including measures required in emergencies involving the health and safety of persons within the area)..."*.

The eight prohibited uses recognized by this exception are temporary roads, use of motor vehicles, motorized equipment or motorboats, landing of aircraft, other forms of mechanical transport, and structures or installations. The two Section 4(c) prohibited uses that may not be authorized in wilderness under the above exception are commercial enterprises and permanent roads.

The 1964 Wilderness Act directs that the determination to employ a generally prohibited use can only be made by the federal agency administering the affected wilderness area. The Act in Section 4(d)(8) also states that "Nothing in this Act shall be construed as affecting the jurisdiction or responsibilities of the several States with respect to wildlife and fish ..." within wilderness areas. For projects proposed by State wildlife agencies in designated wilderness it is crucial that Federal and State agencies respect each other's jurisdictions and responsibilities when employing the MRDP. The Federal land management agency must work closely and cooperatively with State agencies in determining how best to meet their needs within the allowable legal framework of the 1964 Wilderness Act and the legislation designating the area as wilderness.

For project proposals where a National Environmental Policy Act (NEPA) analysis is required, the MRDP prepared by the State agency will be included in the NEPA process. The Federal land management agency will work with the State agency to complete the applicable NEPA analysis in a

timely manner. As a part of the MRDP, the State agency will conduct the Minimum Requirements Decisions Process, in close coordination and cooperation with the Federal administering agency, and will document the conclusion from Step 1 and the decision from Step 2. The Federal administering agency will make the final determination of the minimum requirements.

## Minimum Requirements Decisions

### Process Outline

**Step 1a: Determine if the action proposed by the State agency or Federal administering agency, to meet conservation objectives for fish and wildlife, is *necessary* to manage the area as wilderness.**

First, describe the situation that may prompt the State agency or Federal administering agency action and describe how the action will address a problem or issue, or will otherwise contribute to fish or wildlife conservation objectives.

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Then, determine whether the action is necessary in wilderness by describing why the action is necessary in terms of the following:

#### 1. Options Outside of Wilderness

Determine whether the purpose of the proposed action can safely, successfully and reasonably be accomplished outside of a wilderness area. However, this does not preclude analyzing or implementing projects in wilderness, so long as they meet the minimum requirement standard (if **the project involves uses generally prohibited under Sec. 4(c) of the Wilderness Act**). For wildlife species that spend only part of the year in wilderness, give first priority to locating facilities or habitat alterations outside of wilderness.

#### 2. Legal and Policy Consistency

Determine whether the proposed action is consistent with law, regulations, policies, and plans. Consider valid existing rights or special provisions of wilderness acts.

#### 3. Consider Requirements of Other Legislation (ESA, ARPA, ANILCA, etc.)

#### 4. Consider other Guidance (State wildlife conservation strategies, comprehensive plans, State listed threatened or endangered species or sensitive species lists, State or tribal agreements, etc.).

#### 5. Wilderness Character

Determine whether the proposed action contributes to the preservation of wilderness character (i.e., how does the proposed action contribute to maintaining the wilderness character?). See ATTACHMENT D for a more specific discussion of wilderness character.

#### 6. Public Purposes of Wilderness

Determine whether the proposed action is necessary for the purpose of wilderness (i.e., how would the proposed action support the public purposes for wilderness of recreation, scenic, scientific, education, conservation and historical uses?).

### **Step 1b: Conclusion: *Is the Action Necessary?***

If the action is necessary, proceed to Step 2 to determine the minimum tool or method for the action.  
If no action is necessary, stop here.

### **Step 2a: Determine the *minimum tool***

#### **1. Describe the Proposed Action and Alternative Actions**

Analyze at least one feasible alternative, if available, that does not involve a generally prohibited act. This alternative must be one that could accomplish both the wilderness management objectives and the fish and wildlife conservation objectives of the proposed action.

#### **2. Compare the Effects of the Alternatives**

Analyze whether the tools and techniques used to accomplish the proposed action are the least degrading to wilderness characteristics while safely, successfully and reasonably accomplishing the task. This entails analyzing the impacts of each alternative on the wilderness characteristics (naturalness, outstanding opportunities for solitude, or primitive and unconfined recreation, and other special features). Criteria such as time, convenience, and cost effectiveness may also be considered but are less significant than the potential for impacts to wilderness characteristics.

\*See ATTACHMENT D of the MFWP/FS Agreement for example scenarios and description of the four qualities of wilderness character as defined in the Wilderness Act.

### **Step 2b: Decision - *What is the Minimum Tool?***

- Identify the selected alternative.
- Describe the rationale for selecting this alternative, based on the analysis from 2a, law and policy.
- List management requirements for minimizing effects (timing, location, frequency, design standards for this action).
- Describe any monitoring and reporting requirements.

The MRDP used to determine the necessity to either employ or not employ a generally prohibited use meets the intent of the "...minimum requirement..." exception in Section 4(c) of the Wilderness Act. However, any Federal authorization of a generally prohibited use must include a rationale in the decision record that clarifies why the use is needed to manage the wilderness area for the purpose of wilderness and the legislation designating the area as wilderness.

- Decisions resulting from the MRDP outline can be documented in a format that best suits the Federal administering agency and the State wildlife agency.

## **ATTACHMENT B—WILDERNESS OR FOREST PLAN DIRECTION**

The following are excerpts from Forest Plans or Wilderness plans that provide specific direction on management of fish and wildlife in Wilderness. The Plans may contain more information/guidance on management of fish and wildlife but were not excerpted unless they provided specifics that are not already found in Forest Service policy (FSM 2320) or in the agreement with the Association of Fish and Wildlife Agencies.

### **Absaroka-Beartooth Wilderness**

#### **Custer National Forest Management Plan**

Page 70-Management area I

##### **3. Wildlife and Fish**

- 
- d) The Beartooth High Lakes Fisheries Analyses will be used as guidance in developing a fisheries program for the Wilderness. Barren lakes, not previously stocked, were considered for stocking and it is mutually (Forest Service - Montana Department of Fish, Wildlife, and Parks) agreed to that thirteen lakes can be stocked with no adverse effects on the wilderness or the scientific value.

### **Absaroka-Beartooth Management Plan**

Page F-3

##### **7. Fish and Wildlife**

Management of fish and wildlife will be guided by FSM 2611.1-17, 4/79, R-1 Supp. 47. Memorandum of Understanding between the Montana Department of Wildland and Parks and the Forest Service.

- Fish stocking will be allowed to continue in lakes stocked prior to wilderness designation.
- Barren lakes, not previously stocked, may be considered for stocking after it has been mutually (Forest Service - Montana Department of Fish, Wildlife and Parks) agreed and an environmental analysis conducted to identify the effect on scientific value and effects on the wilderness resource.
- The collection of fish spawn from Lightening Lake, when needed by the Montana Department of Fish, Wildlife and Parks, will be allowed in accordance with the Memorandum of Understanding
- The Beartooth High Lakes Fisheries Analysis will be used as guidance in developing a fisheries program for the Wilderness.
- Grizzly bears will be managed in accordance with the "Guidelines for Grizzly Bear management in the Greater Yellowstone Area" and Forest guidelines or policy as they are developed.
- Bighorn sheep populations will be monitored. Through the environmental analysis process, other land uses that could negatively impact the bighorn sheep population (i.e. location of grazing, trails, camps for management of livestock, and recreation uses) will be coordinated.
- The North Yellowstone migratory elk herd uses approximately 2,900 acres of the Absaroka-Beartooth Wilderness for winter range. This area can probably winter 670 elk based on an estimated production of 500 lb of forage per acre. The herd will continue to be monitored to confirm or refine these figures. Monitoring will be under the Tri-Agency

Cooperative Agreement for Elk Herd Management. If elk herd numbers cannot be maintained, the potential to increase the forage yield in the Wilderness through habitat Improvement will be assessed.

### **Anaconda-Pintler Wilderness**

Chapter 2, Issues and Alternatives, Issue 6 - Fish stocking changes native communities

- Lakes traditionally managed through stocking will be managed by stocking with hatchery fish. Species will be confined to those native [a species present (or formerly present) within its historic range or naturally expanded from its historic range, and therefore one that has not been introduced by humans either accidentally or intentionally] to the watershed except in circumstances where a long history of exotic (non-native) stocking exists.
- Indicators for this issue include: Fishless lakes will remain fishless unless compelling future need is identified and acceptable to both FS and MFWP. Native fish populations will be maintained or expanded where opportunities exist.

Table A, Comparison of Existing Direction, EA Preferred Alternative & Final Decision

- Form a work group which includes fisheries and wilderness managers of MFWP and the Forest Service. This group will discuss items relating to the A-P.
- Among the items which may be the subject of discussion and for which the MFWP sanction may be sought are cessation of stocking in currently fishless lakes, protection of streams with pure west slope cutthroat or bull trout and manner and location of fish stocking.

### **Bob Marshall Wilderness Complex**

Refer to Fish, Wildlife and Habitat Management Framework for the Bob Marshall Wilderness Complex dated April 1995 and the Supplement dated February 1997.

### **Gates of the Mountains Wilderness**

Helena National Forest Plan, April 1986  
Management Area P-2

- Fisheries habitat improvement projects outside the wilderness will be assessed for potential impacts upon the wilderness resource.
- Develop a joint resource management plan with the Montana Department of Fish, Wildlife, and Parks for the Beartooth Game Management Area and the Gates of the Mountains Wilderness.

### **Mission Mountains Wilderness**

Flathead National Forest Plan, December 1985  
Page III-120 Management Area 22  
Fish and wildlife

3. Natural processes such as fire, wind, and insect and disease epidemics will be the only agents permitted to influence vegetation in the wilderness and its associated wildlife. No enclosure structures will be installed, and no vegetation manipulation projects will be considered.

### **Rattlesnake Wilderness**



LAC based Management Direction Page – 13  
Area-Wide Policies

- Encourage State to reduce or prohibit trapping of beaver when populations are declining
- Limit development (e.g. trails) in riparian zones
- Identify potential changes in regulation
- Encourage stricter enforcement of fishing regulations
- Educate users about catch and release fishing

**Rattlesnake and Welcome Creek Wilderness**

Lolo National Forest Plan February, 1986

Page III-37

MANAGEMENT AREA 12 This Management Area consists of the portions of the Forest that have been classified as wilderness or are proposed for wilderness classification. It contains portions of the Selway-Bitterroot and Scapegoat Wildernesses and all of the Rattlesnake and Welcome Creek Wildernesses.

III-52

Recreation Opportunity:

5. Monitor and control artificial fish stocking in wilderness lakes so fishing activities do not impact wilderness solitude or lakeshore sites. Stream fishing in the Rattlesnake will be permitted above Beeskove Creek to provide additional nonwilderness recreation opportunity. Regulations and limits are established by the Montana State Department of Fish, Wildlife, and Parks.

**Welcome Creek Wilderness**

Lolo NF forest plan, 1986.

Page III-54

Wildlife and Fish:

No enclosure structures will be installed. No vegetation manipulation projects will be considered. No proposals for reintroduction of wildlife species will be considered. No stocking programs will be pursued. No fish habitat manipulation project will be considered.

**Selway-Bitterroot Wilderness**

General Management Direction

Nez Perce, Clearwater, Lolo, and Bitterroot National Forests  
1992 update

Page F-1

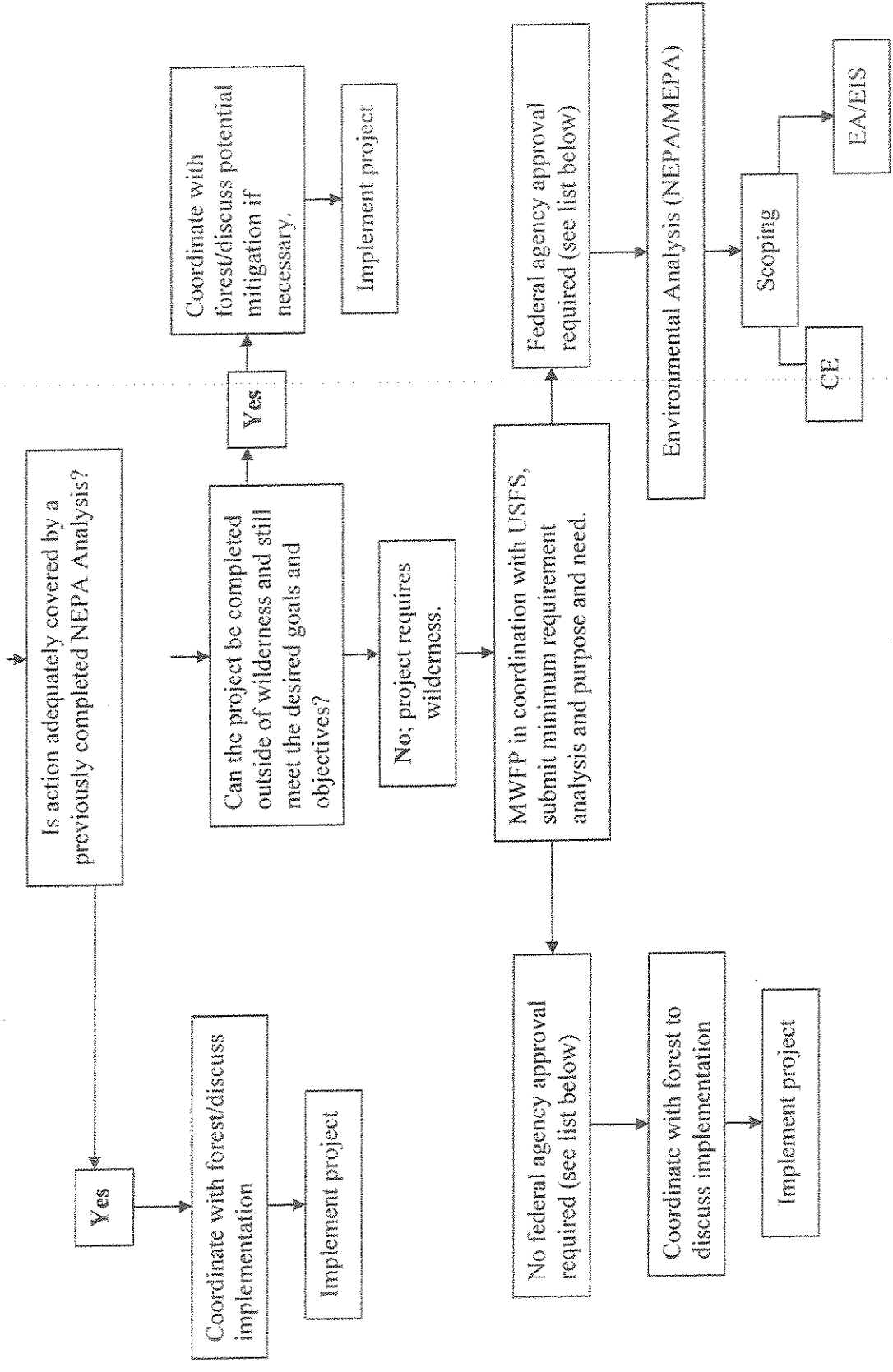
F. Wildlife

2. Direction

c. No salting of wildlife will be permitted.

ATTACHMENT C

Proposal



## ATTACHMENT D

### NEPA Requirements for Projects related to Fish and Wildlife Management in Wilderness

This attachment to the agreement between the Forest Service Northern Region and Montana Fish Wildlife and Parks (MTFWP) provides guidance on application of the National Environmental Policy Act for projects proposed by MTFWP.

Projects can be categorically excluded (CE) from an Environmental Assessment (EA) or Environmental Impact Statement (EIS) if:

1. The proposed action is within one of the categories created by the Forest Service, USDA or Congress (FSH 1909.15 Chapter 30)
2. There are no extraordinary circumstances (FSH 1909.15 Chapter 30.3)
3. Scoping performed in accordance with FSH 1909.15 Chapter 11 identifies that a CE is appropriate and that the action will cause no significant effects. If the responsible official determines, based on scoping, that it is uncertain whether the proposed action may have a significant effect on the environment, prepare an EA (ch. 40). If the responsible official determines, based on scoping, that the proposed action may have a significant environmental effect, prepare an EIS (ch. 20)." Scoping is required on all proposed action, including those that would appear to be categorically excluded.

Congressionally designated wilderness is one of the resource conditions to be evaluated to determine if extraordinary circumstances exist. The mere presence of this resource condition does not preclude the use of CE. It is (1) the existence of a cause-effect relationship between a proposed action and the potential effect on the resource condition and (2) if such a relationship exists, the degree of the potential effect of a proposed action on the resource condition that determines whether extraordinary circumstances exist. (FSH 1909.15, 30.3)

Timelines for completion of NEPA can vary depending upon appeals and litigation. Typically, if there are no appeals or litigation, an EA can be completed in 12-18 months and an EIS 18-24 months. Decisions that are categorically excluded from further documentation can be implemented as soon as the decision memo is signed.

The following are proposed actions that occur and a general response on level of NEPA required.

**Scenario**—MT FWP has been stocking native fish in a wilderness lake with helicopters since before the area was designated wilderness. In a particular year, they have some more specific research that they need to conduct related to survival rates that requires specialized equipment. They have completed a minimum requirements/minimum tool analysis (MRDP) that concludes that the minimum tool is to use a helicopter to carry in the equipment. They will need to make two trips into the wilderness lake and therefore are requesting approval to land the helicopter twice.

The District Ranger conducts scoping, no significant issues are identified. The District reviews the MRDP particularly the analysis of effects to wilderness character, and concludes that there will be no lasting or significant affect to wilderness, writes a decision memo and forwards the request to the Forest Supervisor who is the approving official for this action. The Forest Supervisor approves the landings and requires the state to conduct the research outside of the heavy visitor use season.

**Scenario**—MTFWP is proposing to transplant mountain goats into the wilderness. They are a native species in this wilderness but have not been present for many years. MTFWP completes a MRDP and concludes that a helicopter is the minimum tool. The District Ranger conducts scoping, no significant issues are identified. The District reviews the MRDP particularly the analysis of effects to wilderness character, and concludes that there will be no lasting or significant affect to wilderness, writes a decision memo and forwards the request to the Forest Supervisor who is the approving official for this action. The Forest Supervisor approves the landings and requires the state to conduct the research outside of the heavy visitor use season.

**Scenario**—MTFWP is proposing to stock fish in a stream that has never had fish in the past. They complete an MRDP and conclude that they can backpack fish into the stream. The DR completes scoping and several issues arise including potential effects to the aquatic resources and potential effects to wilderness character. The DR concludes that there is existence of a cause-effect relationship between the proposed action and the degree to which wilderness will be effected is unknown. The DR therefore concludes that the project cannot be categorically excluded, and EA is required and very likely an EIS will be required. In this case, it is probably best to just complete an EIS.

**Scenario** – MTFWP is proposing to change the species stocked in a wilderness lake that has been stocked since before the area was designated wilderness. They would like to restore a native species where non-native have been stocked in the past (i.e. switch from rainbow trout to west slope cutthroat trout). Because the method of stocking was established prior to wilderness designation and there are no proposed landings, MTFWP will coordinate the timing and location of the action with the District Ranger and no further analysis is needed.

In all proposals the following apply:

1. Effects to wilderness character must be assessed. The four qualities of Wilderness character identified in the Wilderness Act are described below.
2. All CEs for fish and wildlife projects require a project or case file and a decision memo.
3. All of the above scenarios may change based on the results of scoping.

### **Statutory Qualities of Wilderness Character**

**Untrammeled**—American Heritage Dictionary defines untrammeled as allowed to “run-free”. Synonyms for untrammeled include unrestrained, unmanipulated, unencumbered, self-willed and wild. Actions that intentionally manipulate or control ecological systems in wilderness degrade the untrammeled quality of wilderness character, even though they may be taken to restore natural conditions. For example, wilderness is manipulated and the untrammeled quality of wilderness character is diminished when naturally ignited fires are suppressed, when animals or plants are removed, or when landscapes are restored by introducing trees that are genetically resistant to pathogens.

**Undeveloped or “Does not Occupy”**—This quality relates to the presence of structures, construction, habitations, and other evidence of modern human presence or occupation. The undeveloped quality of wilderness is impacted by signs, structures, installations, roads and trails, special provisions such as livestock grazing, electronic sites, etc., and the use of motorized equipment, mechanical transport, landing of aircraft, etc.

**Natural**—The Wilderness Act states that wilderness, “is protected and managed so as to preserve its natural conditions.” This quality relates to both intended and unintended effects of modern people on ecological systems inside wilderness. In summary, ecological systems are substantially free from effects of modern civilization. The purpose is to assess the effects of modern people on wilderness ecological systems and not to maintain static or unchanging natural conditions in wilderness. For example, authorization to use prescribed fire in wilderness is assessed under the untrammeled quality because it is a decision to manipulate the wilderness. The ecological effects of this manipulation are monitored under the natural quality.

**Opportunities for solitude or primitive and unconfined recreation**—What the framers of the Wilderness Act meant by these words is not documented, however dictionaries define solitude, unconfined and primitive as remoteness, isolation, seclusion, the absence of all others, simplicity, unrestricted. Therefore managers strive to protect these qualities by minimizing the number of people that will be seen or heard, the noise from motorized equipment and mechanical transport and by promoting self-reliance by minimizing structures and installations.

Affects to these four qualities must be assessed for all actions and if impacts are expected, mitigation should be discussed.

## Pre-wilderness stocking aerial stocking precedents for wilderness lakes in Montana

The following presents data for waters stocked with fish via aircraft (airplants) in wilderness areas as part of FWP's reporting requirements specified in Section F.11. of the *Cooperative Agreement For Fish, Wildlife And Habitat Management On National Forest Wilderness Lands In Montana*. This agreement stipulates that "MFWP will supply the USFS a list of those waters where stocking with aircraft was an established practice before wilderness designation".

A list of wilderness areas located in Montana and the dates of their respective wilderness designation is contained in the following table.

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Wilderness area	Date designated
Bob Marshall	1964
Cabinet Mountains	1964
Gates of the Mountains	1964
Selway-Bitterroot	1964
Anaconda-Pintler	1964
Scapegoat	1972
Geat Bear	1978
Rattlesnake	1980
Absaroka-Beartooth	1975
Mission Mountains	1975
Welcome Creek	1978
UL Bend	1976
Medicine Lake	1976
Red Rock Lakes	1976
Lee Metcalf	1983

### Methods

To establish aerial stocking precedents prior to wilderness designations, FWP's Bozeman fisheries statistics staff generated an initial list of wilderness lakes with stocking records in FWP's fish planting database. Some additional manipulation was required to insure all known wilderness waters were included in this initial list, as there is no database that lists the wilderness status of all waters in Montana. Stocking records after the date of wilderness designation for the respective wilderness in which each water resides were excluded. The remaining master list contained a list of wilderness lakes with pre-wilderness designation stocking records. These stocking records include such information as numbers and species of fish planted, date of stocking, and other information, but they do not include how the fish were stocked. Further investigation

was required to determine whether aircraft were used on the stock dates contained in the master list.

During the summer of 2008 a fisheries intern secured copies of hatchery activity logs, stocking reports and other records that might contain specific references to the stocking events on the master list. The intern indicated on the master list which stocking events had references that confirmed that aircraft were used and made photocopies of the documentation for these references. Where direct references could not be found, the use of aircraft was inferred if the person indicated as stocking the fish was a known FWP pilot.

A review of the stocking dates and locations of individual master list stocking records was performed by the Bozeman statistics staff and the Hatchery Bureau Chief. Stocking records temporally and spatially adjacent to stocking records that were confirmed as airplants were designated as "probable" airplants. That is, stocking records with dates in close proximity to the dates of confirmed airplants that were for waters near or within the drainage of confirmed airplants were considered to have a very high probability of having been stocked by aircraft at the same time as the confirmed airplants.

### Findings

The results of the review of stocking records, hatchery activity logs, and FWP databases yield the results reported in the following reports. Appendix A is a list of hatchery codes and their respective hatchery. These codes appear in the attached reports and indicate the source of fish for each stocking record.

There are 376 unique waters that use airplants in FWP's Fish Stocking Plan. Some of these waters have multiple requests for fish, usually for fish of the same species but of multiple sizes. Of these 376 waters, 170 are in wilderness areas. Of these 170 aerial-stocked wilderness lakes, pre-wilderness designation aerial stocking precedents were found for 91. Aerial stocking precedents were not found for 79. Appendices B and C list the wilderness lakes with pre-wilderness designation confirmed (indicated by an "X" in the "Airplant" column) or probable (indicated by a "P" in the "Airplant" column) precedents for aerial stocking. Appendix B lists these waters alphabetically. Appendix C lists these waters by wilderness.

The 79 waters for which there are no confirmed or probable pre-wilderness aerial stocking precedents are listed in Appendices D and E. Appendix D lists these waters alphabetically while Appendix E lists them alphabetically by FWP region. Although the research completed in 2008 did not identify pre-wilderness aerial stocking precedents for these 79 waters, such precedents may exist. FWP's Fish Stocking Database and the initial list of stocking records generated for this exercise include records of stocking by hatcheries that have been abandoned by FWP. These hatcheries include the Polson, Livingston, Emigrant, Libby, Ovando, and Hamilton hatcheries. Stocking records and hatchery activity logs for these hatcheries have been archived or are no longer readily available and were not part of the 2008 research. Further research of these sources could

provide pre-wilderness aerial stocking precedents for specific waters identified as not having a precedent through this exercise.

#### Acknowledgments

I would like to acknowledge the work of Adan Cooney, Fisheries intern, who gathered the documents and performed the initial research for this project. Nancy Podolinsky provided technical assistance and supervised Adan's research. Bob McFarland and Jenny Dykstra provided technical assistance and database management, performed data queries, and provided many of the project reports.

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# APPENDIX A

List of hatchery codes and their respective hatcheries

HATCHERY CODE	DESCRIPTION
00	station unknown
01	Washoe Park Trout Hatchery
02	Jocko River Trout Hatchery
03	Yellowstone Rvr Trout Hatchery
04	Blue Water Spgs Trout Hatchery
05	Emigrant Hatchery - Closed
06	Giant Springs Trout Hatchery
07	Hamilton Hatchery - Closed
08	Big Springs Trout Hatchery
09	Libby Hatchery - Closed
10	McNeil Hatchery - Closed
11	Ovando Hatchery - Closed
12	Polson Hatchery - Closed
13	Flathead Lake Salmon Hatchery
14	Miles City Fish Hatchery
15	Libby Field Station Hatchery
16	Rose Creek Hatchery
17	Sekokini Springs Hatchery
20	Bozeman Fish Technology Center
21	Creston National Fish Hatchery
22	Ennis National Fish Hatchery
23	Miles City NFH Hatchery-Closed
24	Garrison Dam NFH -North Dakota
25	Gavins Point NFH -South Dakota
50	public display pond
51	Murray Springs Trout Hatchery
52	Fort Peck Hatchery
70	Aspen Springs Trout Farm
71	Bitterroot Fish Hatchery
72	Crystal Lakes Hatchery
73	Dalimata Ponds
74	Fish Forever Hatchery
75	Harriman Trout Company
76	Lick Lake Hatchery
77	Moose Lake Fish Farm
78	Nelsons Spg Creek Ranch Hatch
79	Rainbow Springs Hatchery
80	Sekokini Springs Comm Hatchery
81	Spring Creek Camp & Trout Farm
82	Spring Creek Trout Hatchery
83	Trout Haven Hatchery
84	Westslope Trout Company
92	Canadian source
93	research/education
94	illegal or unauthorized plant
95	release from rearing ponds
96	other abandned state/fed hatch
97	out-of-state hatchery
98	montana private hatchery
99	transplants from lake/stream

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## APPENDIX B

Alphabetical list of wilderness lakes with pre-wilderness  
designation precedents for aerial stocking

## *Wilderness Plants By Water Name*

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Albino Lake	03	7/28/1967	5	227126	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Albino Lake	03	8/10/1975	5	227126	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Alheda Lake	13	8/19/1969	1	088015	-	002	Flathead	Great Bear Wilderness	X	08
Alpine Lake	03	8/17/1972	5	227143	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Anvil Lake	03	7/26/1967	5	227163	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Anvil Lake	03	7/23/1968	5	227163	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Aquarius Lake	03	7/28/1967	5	227168	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Aquarius Lake	03	8/27/1970	5	227168	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Arch Lake	03	8/2/1971	5	227170	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Arch Lake	03	8/2/1971	5	227170	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Arch Lake	03	8/2/1971	5	227170	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Ashley (Hidden) Lak	13	8/8/1968	1	075222	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Aufwuchs Lake	03	8/1/1969	5	227193	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Avatanche Lake	03	7/14/1976	3	136880	Y	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13
Basin Lake	03	8/4/1971	5	228877	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Beauty Lake	03	7/26/1967	5	227243	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Beauty Lake	03	7/23/1968	5	227243	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Bechive Lake	03	8/10/1966	3	097372	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Beetive Lake	03	7/14/1976	3	097372	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09

Thursday, September 11, 2008

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Beehive Lake	03	8/2/1983	3	097372	M	013	Madison	Lee Melcalf Wilderness, Spanish Peaks Unit	P	09
Bergsicker Lake	13	8/19/1969	1	088070	-	002	Flathead	Great Bear Wilderness	P	08
Big Butte Lake	03	7/30/1968	5	227249	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Big Creek Lakes #1	02	8/11/1977	2	037325	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Black Canyon Lake	03	8/4/1967	5	227280	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Black Canyon Lake	03	8/27/1970	5	227280	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Black Canyon Lake	03	8/10/1975	5	227280	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Blodgett Lake	02	8/11/1977	2	037350	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Blue Lake	03	9/11/1968	5	227308	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Blue Lake	03	8/5/1971	5	227308	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	P	22
Bowback Lake	03	8/27/1968	5	227313	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Bowback Lake	03	8/12/1971	5	227313	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Bradley Lake	13	8/20/1969	1	088240	-	002	Flathead	Great Bear Wilderness	X	08
Brantiate Creek Lake	03	8/2/1965	5	227315	-	002	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Bridge Lake	03	8/25/1970	5	227330	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Bull Lake	02	8/11/1977	2	046225	A	012	Missoula	Rattlesnake Wilderness	X	04
Burnt Gulch Lake	03	8/25/1970	5	227385	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Caim Lake	03	7/24/1968	5	227392	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Canyon Lakes	02	8/11/1977	2	037525	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Castle Lake	13	8/19/1969	1	088280	-	002	Flathead	Great Bear Wilderness	X	08
Cataract Lake	03	9/28/1973	3	137180	-	013	Madison	Lee Melcalf Wilderness, Taylor-Hilgard Unit	X	13

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Cedar Lake	03	7/14/1976	3	137200	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Cedar Lake	03	8/4/1981	3	137200	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Chilled Lakes	03	9/15/1970	3	097676	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Chilled Lakes	03	9/28/1973	3	097676	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Cloverleaf Lakes	03	7/29/1967	5	227468	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Courthouse Lake	03	7/30/1971	5	227540	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Cradle Lake	03	7/22/1977	3	137480	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Cradle Lake	03	8/4/1981	3	137480	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Crescent Lake	13	9/4/1963	1	075880	-	007	Missoula	Mission Mountains Wilderness	X	07
Crystal Lake	03	8/1/1968	5	227618	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Crystal Lake	03	7/31/1969	3	227616	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	03	7/29/1971	3	227616	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	03	8/5/1971	3	227616	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	03	7/15/1976	3	227616	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	02	8/11/1977	2	037725	A	012	Pavalli	Selway-Bitterroot Wilderness	P	03
Cup Lake	13	8/19/1969	1	088460	-	002	Flathead	Great Bear Wilderness	X	08
Dewey Lake	03	7/24/1968	5	227686	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Diamond Lake	01	8/26/1963	3	097942	-	001	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Diamond Lake	03	8/25/1970	5	229542	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Diamond Lake	03	8/2/1983	3	097942	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
Dickey Lake	13	8/19/1969	1	088510	-	002	Flathead	Great Bear Wilderness	P	08

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<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Disappointment Lak	13	8/8/1968	1	075960	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Ducharme Lake	13	9/23/1957	1	079420	-	002	Lake	Mission Mountains Wilderness	X	07
Dude Lake	03	8/4/1967	5	227700	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Dude Lake	03	7/23/1968	5	227700	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Dude Lake	03	8/10/1975	5	227700	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Duncan Lake	13	8/8/1968	1	076080	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
East Tranquil Lake	13	8/19/1969	1	088537	-	002	Flathead	Great Bear Wilderness	X	08
Echo Lake	03	7/30/1971	5	227718	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Echo Lake	03	7/30/1971	5	227718	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Echo Lake	01	7/22/1977	3	137540	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Edith Lake	01	8/19/1963	2	067752	-	001	Granite	Anaconda-Pintler Wilderness	X	06
Elk Lake	13	8/20/1969	1	088540	-	002	Flathead	Great Bear Wilderness	X	08
Engle Peak Lake	13	8/7/1959	1	058784	-	002	Sanders	Cabinet Mountains Wilderness	X	05
Expedition Lake	01	7/22/1977	3	137580	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Expedition Lake	03	8/8/1980	3	137580	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Farmers Lake #6	02	7/31/1972	2	059476	-	012	Missoula	Rattlesnake Wilderness	X	06
Fatty Lake	13	9/23/1957	1	076300	-	002	Lake	Mission Mountains Wilderness	X	07
Finger Lake	03	7/14/1976	3	137620	Y	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Finger Lake	03	8/4/1981	3	137620	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Fire Lake	03	7/31/1969	3	227860	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Fire Lake	03	7/29/1971	3	227860	-	013	Park	Absaroka-Beartooth Wilderness	X	22

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Fire Lake	03	7/15/1976	3	227860	M	013	Park	Absaroka-Beartooth Wilderness	P	22
First Lake	13	7/18/1968	1	076380	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Flatrock Lake	03	7/23/1968	5	227921	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fly Lake	02	7/20/1976	2	046596	A	012	Missoula	Rattlesnake Wilderness	X	04
Fossil Lake	03	7/29/1967	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	9/16/1970	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	9/25/1970	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	8/9/1972	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	7/23/1977	5	227924	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Gnome Lake	03	9/28/1973	3	137635	-	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13
Gold Creek Lake	02	7/20/1976	2	046598	A	012	Missoula	Rattlesnake Wilderness	X	04
Golden Lake	03	8/1/1968	5	227987	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Heart Lake	13	6/30/1960	2	046690	-	010	Powell	Sagegoat Wilderness	X	04
Heart Lake	13	9/4/1963	1	076660	-	007	Missoula	Mission Mountains Wilderness	X	07
Hellroaring Lakes	03	8/4/1967	5	228064	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Hellroaring Lakes	03	7/29/1971	5	228064	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Hellroaring Lakes	03	7/30/1971	5	228064	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Hemlock Lake	09	8/21/1969	1	076680	-	002	Missoula	Mission Mountains Wilderness	P	07
High Hope Lake	03	7/22/1977	3	137805	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13
High Hope Lake	03	8/8/1980	3	137805	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	P	13
Hilgard Lake	03	7/22/1977	3	137810	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13



<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Hilgard Lake	03	8/8/1980	3	137810	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	P	13
Hope Lake	01	8/19/1963	2	038175	-	001	Ravalli	Anaconda-Pintler Wilderness	X	03
Horseshoe Lake	03	8/25/1970	5	228132	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Island Lake	13	9/4/1963	1	076880	-	007	Missoula	Mission Mountains Wilderness	X	07
Jasper Lake	03	8/27/1968	5	228180	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Jim Lake #12	09	8/21/1969	1	076970	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #19	09	8/21/1969	1	076975	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #20	09	8/21/1969	1	076976	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #3	09	8/21/1969	1	076964	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #7	09	8/21/1969	1	076965	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #8	09	8/21/1969	1	076966	-	002	Missoula	Mission Mountains Wilderness	P	07
Jorden Lake	03	7/28/1967	5	228204	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Kaulman Lake	03	8/25/1970	5	228225	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Kaulman Lake	03	9/16/1970	5	228225	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Kaulman Lake	03	9/25/1970	5	228225	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Kerlee Lake	02	8/11/1977	2	038300	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Koo Koo Lake	03	8/9/1972	5	228310	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Lake Abundance	03	7/15/1970	5	227112	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Lake Abundance	03	8/16/1972	5	227112	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Lake Cameron	03	7/14/1976	3	137160	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13
Lake Cameron	03	8/8/1980	3	137160	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	P	13

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<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Lake Eglise	03	7/22/1977	3	137545	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Lake Eglise	03	8/8/1980	3	137545	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Lake Ha Hand	03	9/16/1970	3	137660	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Lake Kathleen	03	8/25/1970	5	228218	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Lake Kathleen	03	7/29/1971	5	228218	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	P	22
Lake Of The Clouds	03	7/26/1967	5	228338	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Lake Raymond	03	8/25/1970	5	229541	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Leo Lake	03	7/23/1968	5	228370	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Long Lake	13	7/18/1968	1	077378	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Lost Lake	03	8/2/1965	5	228512	-	002	Carbon	Absaroka-Beartooth Wilderness	X	22
Lost Lake	03	7/29/1971	5	228512	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lost Lake	03	7/29/1971	5	228510	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Lost Lake	03	8/10/1975	5	228512	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lower Arch Creek L	03	7/26/1971	5	228530	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lower Arch Creek L	03	7/26/1971	5	228530	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lower Dutchman La	03	7/22/1977	3	137890	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Lower Dutchman La	03	8/8/1980	3	137890	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Lower Phyllis Lake	01	8/19/1963	2	068569	-	002	Granite	Anaconda-Pintler Wilderness	X	06
Lucifer Lake	13	7/17/1968	1	077620	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Margaret Lake	03	8/9/1972	5	228582	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Margo Lake	03	9/15/1970	3	098986	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09

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<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Margo Lake	03	9/28/1973	3	098986	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
Margo Lake	03	8/28/1978	3	098986	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
Marker Lake	03	8/9/1972	5	229576	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Martex Lake	03	8/1/1969	5	228590	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Medicine Lake	03	8/2/1971	5	228638	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Medicine Lake	03	8/4/1971	5	228638	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Medicine Lake	03	8/4/1971	5	228638	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Mollman Lake #1	13	8/8/1968	1	077900	-	002	Missoula	Mission Mountains Wilderness	X	07
Mollman Lake #1	13	8/8/1968	1	077900	-	002	Missoula	Mission Mountains Wilderness	X	07
Moon Lake	03	8/1/1969	5	228708	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Moon Lake	03	8/9/1972	5	228708	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Moon Lake	03	8/10/1975	5	228708	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Moose Lake	13	8/19/1969	1	089260	-	002	Flathead	Great Bear Wilderness	P	08
Mountain Goat Lake	03	8/1/1969	5	228739	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Mountain Sheep Lak	03	8/1/1969	5	228740	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Mouse Lake	03	8/25/1970	5	229545	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Mud Lake #1	13	8/8/1968	1	078020	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
No Man Lake	03	8/12/1971	3	138080	-	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13
No Man Lake	03	7/14/1976	3	138080	Y	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	P	13
No Man Lake	03	8/4/1981	3	138080	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	P	13
North Spanish Lake	03	9/15/1970	3	099139	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Ouzel Lake	03	8/5/1971	5	228840	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Pablo Lake	13	8/8/1968	1	078155	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Painted Lake	03	9/28/1973	3	138140	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Painted Lake	03	8/28/1978	3	138140	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Painted Lake	03	8/4/1981	3	138140	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Papoose Lake	03	7/22/1977	3	138150	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Papoose Lake	03	8/8/1980	3	138150	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Peat Lake	02	8/11/1977	2	038800	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Picture Lake	13	8/8/1968	1	078260	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Pine Creek Lake	03	8/25/1970	3	228904	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Pine Creek Lake	03	7/15/1976	3	228904	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Piper Lake	13	9/23/1957	1	077580	-	002	Lake	Mission Mountains Wilderness	P	07
Rainbow Lake	01	7/22/1977	3	138870	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Ran Lake	03	8/10/1975	5	228968	M	013	Stillwater	Absaroka-Beartooth Wilderness	X	22
Ramona Lake	03	9/15/1970	3	138200	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Ramona Lake	03	9/28/1973	3	138200	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Rattlesnake Lake #3	02	7/31/1972	2	067505	-	012	Missoula	Rattlesnake Wilderness	X	06
Rattlesnake Lakes	02	9/8/1968	2	047190	-	012	Missoula	Rattlesnake Wilderness	X	04
Rock Island Lake	03	7/29/1967	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	8/4/1967	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	7/24/1968	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22

Name	Hatchery	Plant date	Region	Water	Strain	Species	County	Wilderness	Airplant	Drainage
Rock Island Lake	03	8/27/1970	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	8/9/1972	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	7/23/1977	5	229030	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Tree Lake	03	7/23/1968	5	229033	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Sanders Lake	02	8/11/1977	2	069139	A	012	Missoula	Rattlesnake Wilderness	P	06
Seniadem Lake	13	7/17/1968	1	078590	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Sourdough Lake	03	7/26/1967	5	229330	-	013	Park	Absaroka-Beartooth Wilderness	X	22
South Crow Creek L	13	8/8/1968	1	078752	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
South Crow Creek L	13	8/8/1968	1	078754	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
South Fork Lake	02	8/11/1977	2	039150	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
South Fork Lake	02	7/31/1972	2	039175	-	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Spanish Lakes	03	8/2/1983	3	099424	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Squeeze Lake	03	8/25/1970	5	229544	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Summit Lake	13	7/18/1968	1	078970	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Sunken Rock Lake	03	8/1/1969	5	229590	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Sunset Lake	03	9/16/1970	3	138540	-	013	Madison	Lee Metcalf Wilderness, Taylor-Hilgard Unit	X	13
Surprise Lake	03	7/23/1968	5	229582	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Swamp Lake	03	7/26/1967	5	229385	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Swamp Lake	03	8/27/1970	5	229385	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Terrace Lake	13	7/18/1968	1	078751	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Triangle Lake	03	8/1/1969	5	229489	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Triangle Lake	03	8/5/1971	5	229487	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Tumble Lake	03	8/1/1968	5	229510	-	013	Stillwater	Absaroka-Beartooth Wilderness	X	22
Tunnel Creek Lake	13	8/19/1969	1	089935	-	002	Flathead	Great Bear Wilderness	P	08
Unnamed Lake	03	8/27/1970	5	229547	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Unnamed Lake	03	7/26/1971	5	229547	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Upper Aero Lake	03	8/2/1969	5	229618	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Upper Dutchman La	03	7/22/1977	3	138860	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Upper Dutchman La	03	8/8/1980	3	138860	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Upper Sheep Creek	13	8/19/1969	1	089957	-	002	Flathead	Great Bear Wilderness	P	08
Upper Twin Lake	03	8/15/1969	2	047530	-	013	Lewis and Clar	Sagegoal Wilderness	X	04
Wedge Lake	01	7/22/1977	3	138975	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Wedge Lake	03	8/4/1981	3	138975	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
West Boulder River	08	7/31/1967	5	226552	-	001	Sweet Grass	Absaroka-Beartooth Wilderness	P	22
West Tranquil Lake	13	8/19/1969	1	089965	-	002	Flathead	Great Bear Wilderness	X	08
Worden Lake	02	7/31/1972	2	069480	-	012	Missoula	Rattlesnake Wilderness	X	06
Wrong Lake	03	8/27/1970	5	229831	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Yellowstone River D	03	8/1/1968	5	227428	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Zimmer Lake	03	8/4/1967	3	229842	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Zimmer Lake	03	8/1/1968	3	229842	-	013	Park	Absaroka-Beartooth Wilderness	P	22

## **APPENDIX C**

**Wilderness lakes with pre-wilderness designation  
precedents for aerial stocking listed by wilderness area**

## *Wilderness Plants By Wilderness Area*

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
<b>Absaroka-Beartooth Wilderness</b>										
Albino Lake	03	7/28/1967	5	227126	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Albino Lake	03	8/10/1975	5	227126	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Alpine Lake	03	8/17/1972	5	227143	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Arvil Lake	03	7/26/1967	5	227163	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Arvil Lake	03	7/23/1968	5	227163	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Aquarius Lake	03	7/28/1967	5	227168	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Aquarius Lake	03	8/27/1970	5	227168	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Arch Lake	03	8/2/1971	5	227170	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Arch Lake	03	8/2/1971	5	227170	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Arch Lake	03	8/2/1971	5	227170	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Aufwuchs Lake	03	8/1/1969	5	227193	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Basin Lake	03	8/4/1971	5	228877	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Beauty Lake	03	7/26/1967	5	227243	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Beauty Lake	03	7/23/1968	5	227243	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Big Butte Lake	03	7/30/1968	5	227249	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Black Canyon Lake	03	8/4/1967	5	227280	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Black Canyon Lake	03	8/27/1970	5	227280	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22



<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplane</i>	<i>Drainage</i>
Black Canyon Lake	03	8/10/1975	5	227280	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Blue Lake	03	9/11/1968	5	227308	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Blue Lake	03	8/5/1971	5	227308	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	P	22
Bowback Lake	03	8/27/1968	5	227313	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Bowback Lake	03	8/12/1971	5	227313	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Bramble Creek Lake	03	8/2/1965	5	227315	-	002	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Bridge Lake	03	8/25/1970	5	227330	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Burnt Gulch Lake	03	8/25/1970	5	227385	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Cain Lake	03	7/24/1968	5	227392	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Cloverleaf Lakes	03	7/29/1967	5	227468	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Courthouse Lake	03	7/30/1971	5	227540	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Crystal Lake	03	8/1/1968	5	227618	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Crystal Lake	03	7/31/1969	3	227616	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	03	7/29/1971	3	227616	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	03	8/5/1971	3	227616	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Crystal Lake	03	7/15/1976	3	227616	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Dewey Lake	03	7/24/1968	5	227686	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Diamond Lake	03	8/25/1970	5	229542	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Dude Lake	03	8/4/1967	5	227700	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Dude Lake	03	7/23/1968	5	227700	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Dude Lake	03	8/10/1975	5	227700	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Echo Lake	03	7/30/1971	5	227718	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Echo Lake	03	7/30/1971	5	227718	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Fire Lake	03	7/31/1969	3	227860	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Fire Lake	03	7/29/1971	3	227860	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Fire Lake	03	7/15/1976	3	227860	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Flatrock Lake	03	7/23/1968	5	227921	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	7/29/1967	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	9/16/1970	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	9/25/1970	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	8/9/1972	5	227924	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Fossil Lake	03	7/23/1977	5	227924	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Golden Lake	03	8/1/1968	5	227987	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Hellroaring Lakes	03	8/4/1967	5	228064	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Hellroaring Lakes	03	7/29/1971	5	228064	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Hellroaring Lakes	03	7/30/1971	5	228064	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Horseshoe Lake	03	8/25/1970	5	228132	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Jasper Lake	03	8/27/1968	5	228180	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Jorden Lake	03	7/28/1967	5	228204	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Kaufman Lake	03	8/25/1970	5	228225	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Kaufman Lake	03	9/16/1970	5	228225	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Kaufman Lake	03	9/25/1970	5	228225	-	013	Park	Absaroka-Beartooth Wilderness	P	22

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Name	Hatchery	Plant date	Region	Water	Strain	Species	County	Wilderness	Airplant	Drainage
Koo Koo Lake	03	8/9/1972	5	228310	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Lake Abundance	03	7/15/1970	5	227112	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Lake Abundance	03	8/16/1972	5	227112	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Lake Kathleen	03	8/25/1970	5	228218	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Lake Kathleen	03	7/29/1971	5	228218	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	P	22
Lake Of The Clouds	03	7/26/1967	5	228338	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Lake Raymond	03	8/25/1970	5	229541	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Leo Lake	03	7/23/1968	5	228370	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Lost Lake	03	8/2/1965	5	228512	-	002	Carbon	Absaroka-Beartooth Wilderness	X	22
Lost Lake	03	7/29/1971	5	228510	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Lost Lake	03	7/29/1971	5	228512	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lost Lake	03	8/10/1975	5	228512	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lower Arch Creek L	03	7/26/1971	5	228530	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Lower Arch Creek L	03	7/26/1971	5	228530	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Margaret Lake	03	8/9/1972	5	228582	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Marker Lake	03	8/9/1972	5	229576	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Maries Lake	03	8/1/1969	5	228590	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Medicine Lake	03	8/2/1971	5	228638	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Medicine Lake	03	8/4/1971	5	228638	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Medicine Lake	03	8/4/1971	5	228638	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Moon Lake	03	8/1/1969	5	228708	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Moon Lake	03	8/9/1972	5	228708	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Moon Lake	03	8/10/1975	5	228708	M	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Mountain Goat Lake	03	8/1/1969	5	228739	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Mountain Sheep Lak	03	8/1/1969	5	228740	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Mouse Lake	03	8/25/1970	5	229545	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Ouzel Lake	03	8/5/1971	5	228840	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Pine Creek Lake	03	8/25/1970	3	228904	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Pine Creek Lake	03	7/15/1976	3	228904	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Ram Lake	03	8/10/1975	5	228968	M	013	Stillwater	Absaroka-Beartooth Wilderness	X	22
Rock Island Lake	03	7/29/1967	5	228030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	8/4/1967	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	7/24/1968	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	8/27/1970	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	8/9/1972	5	229030	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Island Lake	03	7/23/1977	5	229030	M	013	Park	Absaroka-Beartooth Wilderness	P	22
Rock Tree Lake	03	7/23/1968	5	229033	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Sourdough Lake	03	7/26/1967	5	229330	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Squeeze Lake	03	8/25/1970	5	229544	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Sunken Rock Lake	03	8/1/1969	5	229540	-	013	Sweet Grass	Absaroka-Beartooth Wilderness	X	22
Suprise Lake	03	7/23/1968	5	229582	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Swamp Lake	03	7/26/1967	5	229385	-	013	Park	Absaroka-Beartooth Wilderness	X	22

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Swamp Lake	03	8/27/1970	5	229385	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Triangle Lake	03	8/17/1969	5	229489	-	013	Carbon	Absaroka-Beartooth Wilderness	X	22
Triangle Lake	03	8/5/1971	5	229487	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Turnble Lake	03	8/1/1968	5	229510	-	013	Stillwater	Absaroka-Beartooth Wilderness	X	22
Unnamed Lake	03	8/27/1970	5	229547	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Unnamed Lake	03	7/26/1971	5	229547	-	013	Park	Absaroka-Beartooth Wilderness	P	22
Upper Aero Lake	03	8/2/1969	5	229618	-	013	Park	Absaroka-Beartooth Wilderness	P	22
West Boulder River	08	7/31/1967	5	226552	-	001	Sweet Grass	Absaroka-Beartooth Wilderness	P	22
Wrong Lake	03	8/27/1970	5	229831	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Yellowstone River D	03	8/1/1968	5	227428	-	013	Carbon	Absaroka-Beartooth Wilderness	P	22
Zimmer Lake	03	8/4/1967	3	229842	-	013	Park	Absaroka-Beartooth Wilderness	X	22
Zimmer Lake	03	8/1/1968	3	229842	-	013	Park	Absaroka-Beartooth Wilderness	P	22

### Anaconda-Pintler Wilderness

Edith Lake	01	8/19/1963	2	067752	-	001	Granite	Anaconda-Pintler Wilderness	X	06
Hope Lake	01	8/19/1963	2	038175	-	001	Ravalli	Anaconda-Pintler Wilderness	X	03
Lower Phyllis Lake	01	8/19/1963	2	068569	-	002	Granite	Anaconda-Pintler Wilderness	X	06

### Cabinet Mountains Wilderness

Engle Peak Lake	13	8/7/1959	1	058784	-	002	Sanders	Cabinet Mountains Wilderness	X	05
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### Great Bear Wilderness

Alameda Lake	13	8/19/1969	1	088015	-	002	Flathead	Great Bear Wilderness	X	08
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<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Bergsicker Lake	13	8/19/1969	1	088070	-	002	Flathead	Great Bear Wilderness	P	08
Bradley Lake	13	8/20/1969	1	088240	-	002	Flathead	Great Bear Wilderness	X	08
Castle Lake	13	8/19/1969	1	088280	-	002	Flathead	Great Bear Wilderness	X	08
Cup Lake	13	8/19/1969	1	088460	-	002	Flathead	Great Bear Wilderness	X	08
Dickey Lake	13	8/19/1969	1	088510	-	002	Flathead	Great Bear Wilderness	P	08
East Tranquil Lake	13	8/19/1969	1	088537	-	002	Flathead	Great Bear Wilderness	X	08
Elk Lake	13	8/20/1969	1	088540	-	002	Flathead	Great Bear Wilderness	X	08
Moose Lake	13	8/19/1969	1	089260	-	002	Flathead	Great Bear Wilderness	P	08
Tunnel Creek Lake	13	8/19/1969	1	089335	-	002	Flathead	Great Bear Wilderness	P	08
Upper Sheep Creek	13	8/19/1969	1	089957	-	002	Flathead	Great Bear Wilderness	P	08
West Tranquil Lake	13	8/19/1969	1	089965	-	002	Flathead	Great Bear Wilderness	X	08

### Lee Metcalf Wilderness, Spanish Peaks Unit

Beehive Lake	03	8/10/1968	3	097372	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Beehive Lake	03	7/14/1976	3	097372	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
Beehive Lake	03	8/2/1983	3	097372	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
Chilled Lakes	03	9/15/1970	3	097676	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Chilled Lakes	03	9/28/1973	3	097676	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Diamond Lake	01	8/26/1963	3	097942	-	001	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Diamond Lake	03	8/2/1983	3	097942	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
Margo Lake	03	9/15/1970	3	098986	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Margo Lake	03	9/28/1973	3	098986	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Mago Lake	03	8/28/1978	3	098986	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	P	09
North Spanish Lake	03	9/15/1970	3	099139	-	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
Spanish Lakes	03	8/2/1983	3	099424	M	013	Madison	Lee Metcalf Wilderness, Spanish Peaks Unit	X	09
<b>Lee Metcalf Wilderness, Taylor-hilgard Unit</b>										
Avalanche Lake	03	7/14/1976	3	136880	Y	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Cataract Lake	03	9/28/1973	3	137180	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Cedar Lake	03	7/14/1976	3	137200	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Cedar Lake	03	8/4/1981	3	137200	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Cradle Lake	03	7/22/1977	3	137480	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Cradle Lake	03	8/4/1981	3	137480	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Echo Lake	01	7/22/1977	3	137540	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Expedition Lake	01	7/22/1977	3	137580	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Expedition Lake	03	8/8/1980	3	137580	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Finger Lake	03	7/14/1976	3	137620	Y	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Finger Lake	03	8/4/1981	3	137620	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Gnome Lake	03	9/28/1973	3	137635	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
High Hope Lake	03	7/22/1977	3	137805	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
High Hope Lake	03	8/8/1980	3	137805	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Hilgard Lake	03	7/22/1977	3	137810	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Hilgard Lake	03	8/8/1980	3	137810	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Lake Cameron	03	7/14/1976	3	137160	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Lake Cameron	03	8/8/1980	3	137160	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Lake Egelse	03	7/22/1977	3	137545	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Lake Egelse	03	8/8/1980	3	137545	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Lake Ha Hand	03	9/16/1970	3	137660	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Lower Dutchman La	03	7/22/1977	3	137690	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Lower Dutchman La	03	8/8/1980	3	137690	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
No Man Lake	03	8/12/1971	3	138080	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
No Man Lake	03	7/14/1976	3	138080	Y	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
No Man Lake	03	8/4/1981	3	138080	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Painted Lake	03	9/28/1973	3	138140	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Painted Lake	03	8/28/1978	3	138140	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Painted Lake	03	8/4/1981	3	138140	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Papoose Lake	03	7/22/1977	3	138150	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Papoose Lake	03	8/8/1980	3	138150	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Rainbow Lake	01	7/22/1977	3	138870	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Ramona Lake	03	9/15/1970	3	138200	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Ramona Lake	03	9/28/1973	3	138200	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Sunset Lake	03	9/16/1970	3	138540	-	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Upper Dutchman La	03	7/22/1977	3	138860	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	X	13
Upper Dutchman La	03	8/8/1980	3	138860	M	013	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13
Wedge Lake	01	7/22/1977	3	138975	A	001	Madison	Lee Metcalf Wilderness, Taylor-hilgard Unit	P	13

Thursday, September 11, 2008



Name	Hatchery	Plant date	Region	Water	Strain	Species	County	Wilderness	Airplant	Drainage
Wedge Lake	03	8/4/1981	3	138975	M	013	Madison	Lee Metcalf Wilderness, Taylor-Hiltgard Unit	X	13
<b>Mission Mountains Tribal Wilderness</b>										
Ashley (Hidden) Lak	13	8/8/1968	1	075222	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Disappointment Lak	13	8/8/1968	1	075960	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Duncan Lake	13	8/8/1968	1	076080	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
First Lake	13	7/18/1968	1	076380	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Long Lake	13	7/18/1968	1	077378	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Lucifer Lake	13	7/17/1968	1	077620	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Mud Lake #1	13	8/8/1968	1	078020	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Pablo Lake	13	8/8/1968	1	078155	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
Picture Lake	13	8/8/1968	1	078260	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Senelein Lake	13	7/17/1968	1	078590	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
South Crow Creek L	13	8/8/1968	1	078752	-	002	Lake	Mission Mountains Tribal Wilderness	X	07
South Crow Creek L	13	8/8/1968	1	078754	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Summit Lake	13	7/18/1968	1	078970	-	002	Lake	Mission Mountains Tribal Wilderness	P	07
Terrace Lake	13	7/18/1968	1	078751	-	002	Lake	Mission Mountains Tribal Wilderness	P	07

### Mission Mountains Wilderness

Crescent Lake	13	9/4/1963	1	075880	-	007	Missoula	Mission Mountains Wilderness	X	07
Duchaine Lake	13	9/23/1957	1	079420	-	002	Lake	Mission Mountains Wilderness	X	07
Fatty Lake	13	9/23/1957	1	076300	-	002	Lake	Mission Mountains Wilderness	X	07
Heart Lake	13	9/4/1963	1	076660	-	007	Missoula	Mission Mountains Wilderness	X	07

Thursday, September 11, 2008

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Henlock Lake	09	8/21/1969	1	076680	-	002	Missoula	Mission Mountains Wilderness	P	07
Island Lake	13	9/4/1963	1	076680	-	007	Missoula	Mission Mountains Wilderness	X	07
Jim Lake #12	09	8/21/1969	1	076970	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #19	09	8/21/1969	1	076975	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #20	09	8/21/1969	1	076976	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #6	09	8/21/1969	1	076964	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #7	09	8/21/1969	1	076965	-	002	Missoula	Mission Mountains Wilderness	P	07
Jim Lake #8	09	8/21/1969	1	076966	-	002	Missoula	Mission Mountains Wilderness	P	07
Mollman Lake #1	13	8/8/1968	1	077900	-	002	Missoula	Mission Mountains Wilderness	X	07
Mollman Lake #1	13	8/8/1968	1	077900	-	002	Missoula	Mission Mountains Wilderness	X	07
Piper Lake	13	9/23/1957	1	077580	-	002	Lake	Mission Mountains Wilderness	P	07
<b>Rattlesnake Wilderness</b>										
Bull Lake	02	8/11/1977	2	046225	A	012	Missoula	Rattlesnake Wilderness	X	04
Farmers Lake #6	02	7/31/1972	2	069476	-	012	Missoula	Rattlesnake Wilderness	X	06
Fly Lake	02	7/20/1976	2	046596	A	012	Missoula	Rattlesnake Wilderness	X	04
Gold Creek Lake	02	7/20/1976	2	046598	A	012	Missoula	Rattlesnake Wilderness	X	04
Rattlesnake Lake #3	02	7/31/1972	2	067505	-	012	Missoula	Rattlesnake Wilderness	X	06
Rattlesnake Lakes	02	9/8/1968	2	047190	-	012	Missoula	Rattlesnake Wilderness	X	04
Sanders Lake	02	8/11/1977	2	069139	A	012	Missoula	Rattlesnake Wilderness	P	06
Worden Lake	02	7/31/1972	2	069480	-	012	Missoula	Rattlesnake Wilderness	X	06

## Scapegoat Wilderness

Thursday, September 11, 2008

<i>Name</i>	<i>Hatchery</i>	<i>Plant date</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>	<i>Airplant</i>	<i>Drainage</i>
Heart Lake	13	6/30/1960	2	046690	-	010	Powell	Sagegoat Wilderness	X	04
Upper Twin Lake	03	8/15/1969	2	047530	-	013	Lewis and Clar	Sagegoat Wilderness	X	04
<b>Selway-Bitterroot Wilderness</b>										
Big Creek Lakes #1	02	8/11/1977	2	037325	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Blodgett Lake	02	8/11/1977	2	037350	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Canyon Lakes	02	8/11/1977	2	037525	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Crystal Lake	02	8/11/1977	2	037725	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Kerlee Lake	02	8/11/1977	2	038300	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
Pearl Lake	02	8/11/1977	2	038800	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
South Fork Lake	02	8/11/1977	2	039150	A	012	Ravalli	Selway-Bitterroot Wilderness	P	03
South Fork Lolo Lak	02	7/31/1972	2	039175	-	012	Ravalli	Selway-Bitterroot Wilderness	P	03

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## **APPENDIX D**

**Alphabetical list of wilderness lakes with no pre-wilderness designation precedents for aerial stocking**

## *Wilderness Plants Without a Precedent Plant - Alphabetic*

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Alp Lake	03	5	Alp Lake	G	013	Carbon	Absaroka-Beartooth
Asteroid Lake	03	5	Asteroid	S	007	Stillwater	Absaroka-Beartooth
Avalanche Lake	03	5	Avalanc	G	013	Stillwater	Absaroka-Beartooth
Paree Lake	13	1	Baree L	M	012	Lincoln	Cabinet Mountains
Bass Lake	01	2	Bass La	M	012	Ravalli	Selway-Bitterroot
Big Bear Lake	13	1	Big Bear	M	012	Lincoln	Cabinet Mountains
Blacktail Lake	03	5	Blacktail	G	013	Sweet Grass	Absaroka-Beartooth
Bramble Creek Lake	03	5	Bramble	G	013	Park	Absaroka-Beartooth
Broadwater Lake	03	5	Broadwa	G	013	Park	Absaroka-Beartooth
Cataract Lake	03	5	Cataract	G	013	Stillwater	Absaroka-Beartooth
Cedar Lake	13	1	Cedar L	M	012	Lake	Mission Mountains
Cirque Lake #1	13	1	Cirque L	M	012	Sanders	Cabinet Mountains
Cirque Lake #2	13	1	Cirque L	M	012	Sanders	Cabinet Mountains
Desolation Lake	03	5	Desolati	S	007	Carbon	Absaroka-Beartooth
Diamond Lake	13	1	Diamon	M	012	Flathead	Bob Marshall
Dryad Lake	03	5	Dryad L	S	007	Stillwater	Absaroka-Beartooth
Duffy Lake	01	2	Duffy La	M	012	Ravalli	Selway-Bitterroot
Eedica Lake	03	5	Eedica L	G	013	Stillwater	Absaroka-Beartooth
Elk Lake	03	5	Elk Lake	G	013	Sweet Grass	Absaroka-Beartooth

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Fish Lake	03	3	Fish Lak	G	013	Park	Absaroka-Beartooth
Forsaken Lake	03	5	Forsake	G	013	Carbon	Absaroka-Beartooth
Fred Burr Lake	01	2	Fred Bur	M	012	Ravalli	Selway-Bitterroot
Fulcrum Lake	03	5	Fulcrum	G	013	Park	Absaroka-Beartooth
George Lake	13	1	George	M	012	Missoula	Bob Marshall
Great Falls Creek L	03	5	Great Fa	G	013	Park	Absaroka-Beartooth
Henrich Lake	01	2	Henrich	M	012	Ravalli	Selway-Bitterroot
Hipshot Lake	03	5	Hipshot	G	013	Carbon	Absaroka-Beartooth
Hollaway Lake	01	2	Hollawa	M	012	Ravalli	Selway-Bitterroot
Horseshoe Lake	03	5	Horsesh	G	013	Park	Absaroka-Beartooth
Incisor Lake	03	5	Incisor L	S	007	Park	Absaroka-Beartooth
Jim Lake #16	01	1	Jim Lak	M	012	Missoula	Mission Mountains
Koessler Lake	13	1	Koessler	M	012	Missoula	Bob Marshall
Lake Of The Winds	03	5	Lake Of	G	013	Carbon	Absaroka-Beartooth
Leaky Raft Lake	03	5	Leaky R	G	013	Park	Absaroka-Beartooth
Lena Lake	13	1	Lena La	M	012	Missoula	Bob Marshall
Lick Creek Lake	13	1	Lick Cre	M	012	Missoula	Bob Marshall
Little Washub Lake	03	5	Little Wa	-	010	Park	Absaroka-Beartooth
Lower Sky Lake	13	1	Lower S	M	012	Lincoln	Cabinet Mountains
Lower Storm Lake	03	5	Lower St	G	013	Stillwater	Absaroka-Beartooth
Marsh Lake	03	5	Marsh L	G	013	Park	Absaroka-Beartooth

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Martin Lake	03	5	Martin L	S	007	Carbon	Absaroka-Beartooth
McKnight Lake	03	5	McKnight	S	007	Park	Absaroka-Beartooth
Moran Basin Lakes	13	1	Moran B	M	012	Sanders	Cabinet Mountains
Mosquito Lake	03	5	Mosquit	-	010	Park	Absaroka-Beartooth
Necklace Lakes	13	1	Necklac	M	012	Missoula	Bob Marshall
Nemidji Lake	03	5	Nemidji	G	013	Stillwater	Absaroka-Beartooth
Nugget Lake	03	5	Nugget	G	013	Stillwater	Absaroka-Beartooth
Oreannos Lake	01	3	Oreann	M	012	Deer Lodge	Anaconda-Pintler
Princess Lake	03	5	Princess	-	010	Stillwater	Absaroka-Beartooth
Prospect Lake	03	5	Prospect	G	013	Park	Absaroka-Beartooth
Rainbow Lake	01	1	Rainbow	M	012	Lake	Mission Mountains
Rainbow Lake	01	3	Rainbow	M	012	Madison	Lee Metcalf
Saderbalm Lake	03	5	Saderba	-	010	Stillwater	Absaroka-Beartooth
Scat Lake	03	5	Scat Lak	S	007	Carbon	Absaroka-Beartooth
Shadow Lake	03	5	Shadow	G	013	Carbon	Absaroka-Beartooth
Silt Lakes #2	03	5	Silt Lake	G	013	Carbon	Absaroka-Beartooth
Silver Lake	03	5	Silver La	G	013	Park	Absaroka-Beartooth
Skeeler Lake	03	5	Skeeler	-	010	Carbon	Absaroka-Beartooth
Snowshoe Lake	13	1	Snowsh	M	012	Sanders	Cabinet Mountains
Sock Lake	01	4	Sock La	M	012	Lewis and Clar	Bob Marshall
Spaghetti Lake	03	5	Spaghet	-	010	Carbon	Absaroka-Beartooth

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Speculator Lake	03	5	Speculat	G	013	Sweet Grass	Absaroka-Beartooth
St Paul Lake	13	1	St Paul	M	012	Sanders	Cabinet Mountains
Star Lake	03	5	Star Lak	G	013	Park	Absaroka-Beartooth
Slash Lake	03	5	Slash La	G	013	Park	Absaroka-Beartooth
Stephanie Lake	03	5	Stephan	G	013	Park	Absaroka-Beartooth
Sundance Lake	03	5	Sundan	G	013	Carbon	Absaroka-Beartooth
Sundown Lake	03	5	Sundow	G	013	Sweet Grass	Absaroka-Beartooth
Trail Lake	03	5	Trail Lak	G	013	Carbon	Absaroka-Beartooth
Triangle Lake	03	5	Triangle	G	013	Carbon	Absaroka-Beartooth
Upper Arch Creek L	03	5	Upper A	G	013	Carbon	Absaroka-Beartooth
Weasel Creek Lake	03	5	Weasel	G	013	Park	Absaroka-Beartooth
Weasel Lake	03	5	Weasel	G	013	Park	Absaroka-Beartooth
Weeluna Lake	03	5	Weelun	G	013	Stillwater	Absaroka-Beartooth
West Boulder Lake	03	5	West Bo	G	013	Park	Absaroka-Beartooth
West Fishtail Lakes	03	5	West Fis	S	007	Stillwater	Absaroka-Beartooth
Wietly Lake	03	5	Wietly L	G	013	Park	Absaroka-Beartooth
Wood Lake	03	5	Wood L	G	013	Stillwater	Absaroka-Beartooth
Woodward Lake	13	1	Woodwa	M	012	Missoula	Bob Marshall



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## **APPENDIX E**

**List of wilderness lakes with no pre-wilderness  
designation precedents for aerial stocking by FWP  
region**

## *Wilderness Plants Without a Precident Plant - Regional*

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Baree Lake	13	1	Baree L	M	012	Lincoln	Cabinet Mountains
Big Bear Lake	13	1	Big Bear	M	012	Lincoln	Cabinet Mountains
Cedar Lake	13	1	Cedar L	M	012	Lake	Mission Mountains
Cirque Lake #1	13	1	Cirque L	M	012	Sanders	Cabinet Mountains
Cirque Lake #2	13	1	Cirque L	M	012	Sanders	Cabinet Mountains
Diamond Lake	13	1	Diamond	M	012	Flathead	Bob Marshall
George Lake	13	1	George	M	012	Missoula	Bob Marshall
Jim Lake #16	01	1	Jim Lak	M	012	Missoula	Mission Mountains
Koessler Lake	13	1	Koessler	M	012	Missoula	Bob Marshall
Lena Lake	13	1	Lena La	M	012	Missoula	Bob Marshall
Lick Creek Lake	13	1	Lick Cre	M	012	Missoula	Bob Marshall
Lower Sky Lake	13	1	Lower S	M	012	Lincoln	Cabinet Mountains
Moran Basin Lakes	13	1	Moran B	M	012	Sanders	Cabinet Mountains
Necklace Lakes	13	1	Necklac	M	012	Missoula	Bob Marshall
Rainbow Lake	01	1	Rainbow	M	012	Lake	Mission Mountains
Snowshoe Lake	13	1	Snowsh	M	012	Sanders	Cabinet Mountains
St Paul Lake	13	1	St Paul	M	012	Sanders	Cabinet Mountains
Woodward Lake	13	1	Woodwa	M	012	Missoula	Bob Marshall
Bass Lake	01	2	Bass La	M	012	Ravalli	Setway-Bitterroot

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Duffy Lake	01	2	Duffy La	M	012	Ravalli	Selway-Bitterroot
Fred Burr Lake	01	2	Fred Burr	M	012	Ravalli	Selway-Bitterroot
Heinrich Lake	01	2	Heinrich	M	012	Ravalli	Selway-Bitterroot
Hollaway Lake	01	2	Hollawa	M	012	Ravalli	Selway-Bitterroot
Fish Lake	03	3	Fish Lak	G	013	Park	Absaroka-Beartooth
Oreanus Lake	01	3	Oreann	M	012	Deer Lodge	Anaconda-Pintler
Rainbow Lake	01	3	Rainbow	M	012	Madison	Lee Metcalf
Sock Lake	01	4	Sock La	M	012	Lewis and Clar	Bob Marshall
Alp Lake	03	5	Alp Lake	G	013	Carbon	Absaroka-Beartooth
Asteroid Lake	03	5	Asteroid	S	007	Stillwater	Absaroka-Beartooth
Avatanche Lake	03	5	Avatanc	G	013	Stillwater	Absaroka-Beartooth
Blacktail Lake	03	5	Blacktail	G	013	Sweet Grass	Absaroka-Beartooth
Bramble Creek Lake	03	5	Bramble	G	013	Park	Absaroka-Beartooth
Broadwater Lake	03	5	Broadwa	G	013	Park	Absaroka-Beartooth
Cataract Lake	03	5	Cataract	G	013	Stillwater	Absaroka-Beartooth
Desolation Lake	03	5	Desolati	S	007	Carbon	Absaroka-Beartooth
Dryad Lake	03	5	Dryad L	S	007	Stillwater	Absaroka-Beartooth
Eedica Lake	03	5	Eedica L	G	013	Stillwater	Absaroka-Beartooth
Elk Lake	03	5	Elk Lake	G	013	Sweet Grass	Absaroka-Beartooth
Forsaken Lake	03	5	Forsake	G	013	Carbon	Absaroka-Beartooth
Fulcrum Lake	03	5	Fulcrum	G	013	Park	Absaroka-Beartooth

<i>Name</i>	<i>Hatchery</i>	<i>Region</i>	<i>Water</i>	<i>Strain</i>	<i>Species</i>	<i>County</i>	<i>Wilderness</i>
Skeeter Lake	03	5	Skeeter	-	010	Carbon	Absaroka-Beartooth
Spaghetti Lake	03	5	Spaghet	-	010	Carbon	Absaroka-Beartooth
Speculator Lake	03	5	Speculat	G	013	Sweet Grass	Absaroka-Beartooth
Star Lake	03	5	Star Lak	G	013	Park	Absaroka-Beartooth
Slash Lake	03	5	Slash La	G	013	Park	Absaroka-Beartooth
Stephane Lake	03	5	Stephan	G	013	Park	Absaroka-Beartooth
Sundance Lake	03	5	Sundan	G	013	Carbon	Absaroka-Beartooth
Sundown Lake	03	5	Sundow	G	013	Sweet Grass	Absaroka-Beartooth
Trail Lake	03	5	Trail Lak	G	013	Carbon	Absaroka-Beartooth
Triangle Lake	03	5	Triangle	G	013	Carbon	Absaroka-Beartooth
Upper Arch Creek L	03	5	Upper A	G	013	Carbon	Absaroka-Beartooth
Weasel Creek Lake	03	5	Weasel	G	013	Park	Absaroka-Beartooth
Weasel Lake	03	5	Weasel	G	013	Park	Absaroka-Beartooth
Weekna Lake	03	5	Weetun	G	013	Stillwater	Absaroka-Beartooth
West Boulder Lake	03	5	West Bo	G	013	Park	Absaroka-Beartooth
West Fishtail Lakes	03	5	West Fis	S	007	Stillwater	Absaroka-Beartooth
Wiedy Lake	03	5	Wiedy L	G	013	Park	Absaroka-Beartooth
Wood Lake	03	5	Wood L	G	013	Stillwater	Absaroka-Beartooth

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