

RARE, THREATENED AND ENDANGERED
PLANTS AND ANIMALS OF IDAHO

March 1990

compiled by:

Robert Moseley
and
Craig Groves

Natural Heritage Section
Nongame and Endangered Wildlife Program
Idaho Department of Fish and Game

Published in cooperation with:

U.S. Forest Service Region 1
U.S. Forest Service Region 4
Idaho Department of Parks and Recreation
U.S. Fish and Wildlife Service
U.S. Bureau of Land Management
The Nature Conservancy

CONTENTS

INTRODUCTION 2

SPECIAL PLANTS 5

 Vascular Plants 7

 Mosses 18

 Lichens 19

 Taxa Dropped From Consideration In Idaho 20

SPECIAL ANIMALS 21

 Idaho Department of Fish and Game
 Species of Special Concern 22

 Idaho Department of Fish and Game
 Threatened/Endangered Wildlife,
 Protected Nongame Animals 24

 Bureau of Land Management Sensitive Species 25

 U.S. Fish and Wildlife Service Candidate,
 Threatened, and Endangered Species 26

 U.S. Forest Service Sensitive Species 27

 Summary Table for Agency Animal Classifications 28

ACKNOWLEDGEMENTS 33

INTRODUCTION

National concern for the loss of plant and animal species in the United States culminated in 1973, with the passage of Public Law 93-205, the Endangered Species Act. Since that time there has been considerable activity at all levels of government and with non-governmental organizations directed toward the survival and recovery of endangered, threatened and rare plants and animals. To some degree, planning for and management of rare species has been fragmented because of jurisdictional barriers. We have compiled these lists in an effort to consolidate our view of rare species in Idaho. The purpose of this booklet is to identify those species which are in the greatest jeopardy in the state and to provide land managers, owners, and interested parties with an overview of their conservation status.

Information Sources

These lists have been compiled using the most current information available on the conservation status, distribution and abundance of plant and animal species native to Idaho. They have been prepared in part to assist public and private land managers and planners in determining which species are of special concern within their given management jurisdictions. They are also intended for use by amateur and professional botanists and zoologists to help focus their attention on those taxa most in need of field searches and data collection efforts.

The Idaho Natural Heritage Program maintains a comprehensive computerized and manual data base on Idaho's rare, threatened and endangered plants, animals and ecosystems. Site-specific information is available from the Heritage Program. Support for this system comes from many private organizations and public agencies who have as a part of their goals the conservation of rare species and their habitats. These agencies, together with a major contribution from the state's herbaria, museums, and universities provide much of the information that makes up the data base.

Although this report is based on a large volume of information, it is by no means complete. Much is known about some species, very little about others. The Heritage Program welcomes additional information or suggestions on any of the taxa listed herein. Such information, as well as data requests, should be directed to:

Idaho Natural Heritage Program
Idaho Department of Fish and Game
P.O. Box 25
Boise, ID 83707
208/334-3402

Recognizing that these lists are dynamic, and that our knowledge of these species is constantly increasing, we hope to produce an updated version of this booklet biannually. Copies may be obtained at cost (\$2.00) from the Idaho Natural Heritage Program.

Agency Rare Plant and Animal Conservation Programs

Several State and Federal agencies operating in Idaho have as part of their goals and mandates, the identification and protection of rare species and their habitats:

Idaho Department of Parks and Recreation - A law protecting native wildflowers in Idaho was enacted in 1967 (Idaho Code Section 18-3913). It gives the Department of Parks and Recreation the authority to establish and amend a list of plants in need of protection because they might possibly become extinct or they affect the scenic beauty of public roads or public land. Of the 24 species listed in 1967, most are forest herbs and shrubs common in northern Idaho. Only three, Allotropa virgata, Epipactis gigantea and Cornus nuttallii, occur on our list.

Idaho Department of Fish and Game - The Department of Fish and Game is mandated under Idaho Code Section 36-103 to preserve, protect, perpetuate, and manage all wildlife. All fish and wildlife are considered to be property of the state, and their capture and take are regulated by the Department. The Department has regulations which classify wildlife into the following categories: game animals, game birds, game fish, fur-bearing animals, migratory birds, threatened or endangered wildlife, protected nongame species, unprotected wildlife species, and predatory species. In addition, the Department maintains a list of Species of Special Concern. Threatened or endangered wildlife, protected nongame species, and species of special concern are dealt with in detail in this publication.

U.S. Fish and Wildlife Service - The Fish and Wildlife Service administers the Endangered Species Act of 1973, as amended. The Endangered Species Act provides federal protection for those plants and animals listed as Endangered and Threatened (see definitions below) and authorizes the Secretary of the Interior to develop and implement recovery plans for each listed species. For the purposes of species conservation, it also authorizes the Secretary to enter into cooperative agreements with states in which federal Endangered and Threatened species occur. In Idaho, cooperative agreements are in effect with the Department of Fish and Game for animals and the Department of Parks and Recreation for plants.

INTRODUCTION (cont.)

U.S.D.I Bureau of Land Management - It is the policy of the BLM to conserve threatened and endangered species and the ecosystems they depend upon primarily by prescribing management for conservation of lands these species inhabit (BLM Manual Chapter 6840). The primary goals of the Threatened and Endangered Species Program are inventory, monitoring, plan preparation, and plan implementation to insure the maintenance and recovery of these species. Similarly, it is BLM policy to manage candidate species and their habitats to insure that their actions do not contribute to the need to list any candidate species as threatened or endangered. The State Director has the authority to designate Sensitive Species, which are to be managed under the same policy as candidate species. It is also BLM policy to carry out management for the conservation of state-listed plants and animals. The State Director is to develop policies that will assist the state in achieving their management objectives for those species. Lastly, the Bureau has developed a national plan, referred to as Fish and Wildlife 2000, a part of which details broad goals and objectives for the management of threatened and endangered species.

U.S. Forest Service - The Secretary of Agriculture's Policy on Fish and Wildlife (Department Regulation 9500-4) directs the Forest Service to manage habitats of all existing plants and animals in order to maintain at least viable populations and to avoid actions which may cause species to become federally listed. The Chief, Forest Service, through Forest Service Manual 2670, has directed the Regional Foresters to establish programs to identify threatened, endangered and sensitive species occurring in the Regions and to provide special management emphasis that will ensure their viability. Forest Service policy for Threatened and Endangered Species is to manage their habitats to achieve recovery objectives so that special protection measures under the Endangered Species Act are no longer necessary. For Sensitive Species, the Forest Service is directed to develop and implement management practices to insure that these species do not become threatened and endangered.

Three Forest Service Regions have jurisdiction in Idaho: Region 1 encompasses five National Forests in northern Idaho (Bitterroot, Clearwater, Idaho Panhandle, Kootenai, and Nez Perce); Region 4 encompasses seven Forests in southern Idaho (Boise, Caribou, Challis, Payette, Salmon, Sawtooth, and Targhee) and; the Wallowa-Whitman National Forest, Region 6, administers the Hells Canyon National Recreation Area-portion of the Nez Perce National Forest. Each Regional Forester has established programs and practices in Idaho, which implement Forest Service objectives and policy in threatened, endangered and sensitive species management.

Outline

This publication is divided into two major sections dealing with special plants and special animals. The plant section is an alphabetized list of all vascular, moss and lichen species considered to be of conservation concern in Idaho. Associated with each species are seven columns of information concerning its global and state rarity, conservation status and distribution within Idaho.

The animal section contains a series of classifications of rare animals by the various state and federal agencies. Each classification contains a definition for that particular agency's designation (e.g. BLM Sensitive Species), followed by the current list of species which are managed under that designation. Because there is considerable overlap in the various agency classifications, the animal section concludes with a table which summarizes, by species, all of the agency rare animal designations.

Definitions Common to Plant and Animal Lists

The introduction of the plant and animal sections contain definitions of symbols and categories specific to each list. Two categories of information, however, are common to both lists: (1) the legal federal status of certain species under the Endangered Species Act, and (2) the Heritage Program's assessment of the global and state rarity of each species. These two categories are defined below.

(1) Federal Status

Plants and animals that are listed as Threatened or Endangered Species or are Candidates for Threatened and Endangered status under the Endangered Species Act are defined as follows:

Listed Species (from 50 CFR 17.11 and 17.12):

LE = Listed Endangered Taxa in danger of extinction throughout all or a significant portion of their range.

LT = Listed Threatened Taxa likely to be classified as Endangered within the foreseeable future throughout all or a significant portion of their range.

INTRODUCTION (cont.)

Candidate Species (from Federal Register 54(4):555-579; January 6, 1989):

C1 = Category 1 Taxa for which the U.S. Fish and Wildlife Service currently has substantial information on hand to support the biological appropriateness of proposing to list as endangered or threatened. Proposed rules have not been issued, but development and publication of such rules are anticipated

C2 = Category 2 Taxa for which information now in possession of the U.S. Fish and Wildlife Service indicates that proposing to list as endangered or threatened is possibly appropriate, but for which conclusive data on biological vulnerability and threat are not currently available to support proposed rules. Further biological research and field study may be needed to ascertain the status of taxa in this category.

C2* = Possibly Extinct Category 2 Possibly extinct taxon; needs verification.

Category 3 Taxa that were once being considered for listing as endangered and threatened, but are no longer receiving such consideration. Subcategories are as follows:

3a - Taxon for which the Fish and Wildlife Service has persuasive evidence of extinction.

3b - Taxonomic status is in question.

3c - Taxon is more widespread or abundant than previously believed, or is not subject to identifiable threats.

(2) Heritage Program Ranks

G = Global rank indicator; denotes rank based on rangewide status.

T = Trinomial rank indicator; denotes rangewide status of subspecific taxa.

S = State rank indicator; denotes rank based on status within Idaho.

1 = Critically imperiled because of extreme rarity or because of some factor of its biology making it especially vulnerable to extinction.

2 = Imperiled because of rarity or because of other factors demonstrably making it very vulnerable to extinction.

3 = Either very rare and local throughout its range or found locally in a restricted range or because of other factors making it vulnerable to extinction.

4 = Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.

5 = Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.

A = Accidental occurrence (birds only)

E = Exotic or introduced.

U = Unknown

H = Of historical occurrence (i.e., formerly part of the native biota with the implied expectation that it may be rediscovered)

X = Believed extinct or extirpated.

Q = Indicates uncertainty about taxonomic status.

? = Indicates reservations about assigned rank.

Below is a table comparing ranks to the estimated number of individuals and occurrences and in parentheses the normal ranges of variation for each rank (substitute "S" for "G" for State ranks).

Estimated Global or State Abundance
(Number of reproductive individuals, etc.)

	0	<1000	1000-3000	3000-10,000	>10,000
0	GH, GX	-	-	-	-
<u>Estimated</u> <u>Global</u> <u>or State</u> <u>Occurrences</u>	1-5	-	G1	G1	G1
	6-20	-	G1(G2)	G2(G1)	G2(G1, G3)
	21-100	-	G2(G1)	G2(G1, G3)	G3(G2)
	>100	-	G2(G1)	G2(G1, G3)	G3(G2, G4)
				G3(G2, G4)	G4(G3, G5)

SPECIAL PLANTS

This list updates the conservation status of rare plants native to Idaho reported in "Vascular Species of Concern in Idaho" by the Rare and Endangered Plants Technical Committee of the Idaho Natural Areas Council (1981; Bulletin No. 34, Forest, Wildlife and Range Experiment Station, University of Idaho, Moscow). The pioneering work of the Technical Committee, consisting of Robert Steele (Chairman), Steven Brunfeld, Douglass Henderson, Karl Holte, Fredric Johnson, and Patricia Packard, laid the foundation for rare plant conservation activities in the state. Also known as the Redbook, "Vascular Species of Concern in Idaho" summarized the results of the Committee's extensive data compilation, which began in 1974. The Redbook was revised in 1983, with additions and status changes to the original list.

In the last six years, considerable new information concerning Idaho's rare flora has come to light as a result of extensive field studies by federal and state agencies, academic institutions, and other interested individuals and organizations. New information has generally been reported at the Idaho Rare Plant Conference, held annually since 1984. This Conference, attended by a wide variety of individuals interested in the conservation of Idaho's rare flora, was originally cosponsored by the U.S. Fish and Wildlife Service and the Idaho Native Plant Society. The Native Plant Society now has full sponsorship for the Conference.

For the first time, this list reports the status of our knowledge on rare mosses and lichens of Idaho. The lists were compiled by Roger Rosentreter (lichens) and Joe Elliott (mosses), and reviewed by Bruce McCune, Sherry Pitman and Doyle Andregg. It is expected that this initial attempt to catalogue Idaho's rare nonvascular flora will evolve at a similar, rapid rate as the vascular list has over the last 16 years.

Four lists are included in the Special Plants section. The first three lists summarize the current status and known county distribution of Idaho's rare vascular, moss and lichen flora. Each list is arranged alphabetically by genus, then by species within the genus. One widely used common name appears with the scientific name. The fourth list includes vascular species dropped from consideration in Idaho, since the 1983 Redbook update. Nomenclature for scientific names follows that of the regional floras or the recent literature for newly described or monographed taxa.

Seven columns of information are associated with each species, as follows:

1. **Heritage Rank:** Ranking system used by the Idaho Natural Heritage Program to assess the Global (G) and State (S) rarity for each species. See Introduction for explanation of ranks.

2. **INPS:** Idaho Native Plant Society categories, as follows:

1 = State Priority 1 Taxa in danger of becoming extinct or extirpated from Idaho in the foreseeable future if identifiable factors contributing to their decline continue to operate; these are taxa whose populations are present only at critically low levels or whose habitats have been degraded or depleted to a significant degree.

2 = State Priority 2 Taxa likely to be classified as Priority 1 within the foreseeable future in Idaho, if factors contributing to their population decline or habitat degradation or loss continue.

S = Sensitive Taxa with small populations or localized distributions within Idaho that presently do not meet the criteria for classification as Priority 1 or 2, but whose populations and habitats may be jeopardized without active management or removal of threats.

M = Monitor Taxa that are common within a limited range as well as those taxa which are uncommon, but have no identifiable threats.

R = Review Taxa which may be of conservation concern, but for which we have insufficient data upon which to base a recommendation regarding their appropriate classification.

X = Historical/Extirpated Taxa which are known in Idaho only from historical (pre-1920) records or are considered extirpated from the state.

3. **Federal Status:** Status of plants that are listed or are being considered for listing (candidates) under the Endangered Species Act. See Introduction for explanation of symbols.

SPECIAL PLANTS (cont.)

4. **FS R1:** Status of plants on the U.S. Forest Service, Northern Region Sensitive Species List in Idaho (five National Forests in northern Idaho). Categories are as follows (from Northern Region Sensitive Plant Field Guide):

S = Sensitive A plant species, or recognized subspecies or variety, for which the Regional Forester has determined there is concern for population viability, within a state, as evidenced by significant current or predicted downward trend in populations or habitats. All sensitive species are known to occur on National Forest land.

W = Watch Plant species, or recognized subspecies or varieties, that: (1) are not known to occur on National Forest land, but are predicted to occur on the basis of suitable habitat, and for which there is concern for population viability, within a state, as evidenced by significant current or predicted downward trend in populations or habitats. These taxa, if found on National Forest land would be designated sensitive species; or (2) are known to occur on Forest Service land, but have no immediate or predicted threats to population viability. These taxa are important to monitor in the overall biological diversity program because of federal status or limited distribution in Idaho.

5. **FS R4:** Plants on the U.S. Forest Service, Intermountain Region Sensitive Species List in Idaho (seven National Forests in southern Idaho). Definition is as follows (from Forest Service Manual 2670):

S = Sensitive Taxa that are identified by the Regional Forester for which viability is a concern, as evidenced by significant current or predicted downward trends in population numbers or density, or significant current or predicted downward trends in habitat capability that would reduce a species existing distribution.

6. **BLM:** Plants on the Idaho State Office, Bureau of Land Management Sensitive Species List. Definition is as follows:

S = Sensitive Sensitive species are those designated by the state director, usually in cooperation with the state agencies responsible for managing the species as sensitive. They are those species that are 1) under status review by USFWS/NMFS; or 2) whose numbers are declining so rapidly that federal listing may become necessary; or 3) with typically small and widely dispersed populations; or 4) those inhabiting ecological refugia or other specialized or unique habitats (BLM Manual 6840).

For Idaho, the Sensitive Plant Species List consists of taxa known or suspected to occur on Bureau lands in Idaho which are: (1) listed as Endangered or Threatened under the Endangered Species Act; (2) category 1 or 2 candidates for federal listing as Endangered or Threatened; or (3) listed by the Idaho Native Plant Society as Priority 1, Priority 2, or Sensitive for the state of Idaho.

7. **County Distribution:** The known Idaho distribution, by county. Codes are as follows.

Ada	Aa
Adams	As
Bannock	Ba
Bear Lake	Bl
Benewah	Bw
Bingham	Bi
Blaine	Bl
Boise	Bo
Bonner	Bn
Bonneville	Bv
Boundary	Bd
Butte	Bu
Camas	Cm
Canyon	Cn
Caribou	Cb
Cassia	Cs
Clark	Ck
Clearwater	Cw
Custer	Cu
Elmore	El
Franklin	Fk
Fremont	Fm
Gem	Ge
Gooding	Go
Idaho	Id
Jefferson	Jf
Jerome	Jr
Kootenai	Ko
Latah	La
Lemhi	Lm
Lewis	Lw
Lincoln	Li
Madison	Ma
Minidoka	Mi
Nez Perce	Ne
Oneida	On
Owyhee	Ow
Payette	Pa
Power	Po
Shoshone	Sh
Teton	Te
Twin Falls	Tw
Valley	Va
Washington	Wa

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
VASCULAR PLANTS							
<u>Adiantum pedatum</u> var. nov. Subalpine maidenhair fern	G5T1Q/S1	S		S			Bd, Id
<u>Agoseris lackschewitzii</u> Pink agoseris	G2/S1	S			S	S	Fm, Lm
<u>Agrostis oregonensis</u> Oregon bentgrass	G4/S2	R		S			Bn, El, Id, Sh
<u>Allium aseae</u> Aase's onion	G3/S3		C1		S	S	Aa, Bo, El, Ge
<u>Allium anceps</u> Two-headed onion	G4/S1	2				S	Id, Tw
<u>Allium madidum</u> Swamp onion	G3Q/S2	S	3c		S		As, Va
<u>Allium tolmiei</u> var. <u>persimile</u> Tolmie's onion	G4T2/S2	M	3c		S		As, Ge, Wa
<u>Allium tolmiei</u> var. <u>platyphyllum</u> Tolmie's onion	G4T3/S3	M		S		S	Id, Lw
<u>Allium validum</u> Tall swamp onion	G4/S1	S		S	S		El, Id, Wa
<u>Allotropa virgata</u> Candystick	G4/S1	2		S	S		Id
<u>Andromeda polifolia</u> Bog-rosemary	G5/S1	1					Bn
<u>Antennaria arcuata</u> Meadow pussytoes	G2/S1		C2			S	Bl
<u>Arnica alpina</u> var. <u>tomentosa</u> Alpine arnica	G5T5/S1	M		S			Bd
<u>Artemisia packardiae</u> Packard's mugwort	G3/S2	M				S	Ow
<u>Artemisia papposa</u> Owyhee sagebrush	G3/S3	M	3c			S	Bl, Cm, El, Go, Li, Ow
<u>Asclepias cryptoceras</u> Humboldt milkweed	G4/S2?	R					Aa, As, Ne, El, Ow, Pa, Tw, Wa
<u>Asplenium trichomanes</u> Maidenhair spleenwort	G5/SH	X		S			Cw
<u>Asplenium viride</u> Green spleenwort	G5/S1	R					Bl
<u>Aster jessicae</u> Jessica's aster	G2/S2		C2			S	Cw, La, Ne
<u>Astragalus amblytropis</u> Challis milkvetch	G3/S3	S			S	S	Cu, Lm
<u>Astragalus amnis-amissi</u> Lost River milkvetch	G3/S3	S	3c		S		Bu, Cu
<u>Astragalus anserinus</u> Goose Creek milkvetch	G2/S1		C2		S	S	Cs
<u>Astragalus aquilonius</u> Lemhi milkvetch	G3/S3	S			S	S	Bu, Cu, Lm
<u>Astragalus atratus</u> var. <u>inseptus</u> Mourning milkvetch	G4T3/S3		C2			S	Bl, Cm, El, Go, Li
<u>Astragalus atratus</u> var. <u>owyheensis</u> Owyhee mourning milkvetch	G4T3/S3	S				S	Cn, El, Ow, Tw, Wa
<u>Astragalus beckwithii</u> var. <u>sulcatus</u> Beckwith's milkvetch	G5T3/S3	R					Le
<u>Astragalus bisulcatus</u> Two-groove milkvetch	G5/S1	R					Ck, Fm

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Astragalus bourgovii</u> Bourgou's milkvetch	G5/SU	R					Sh
<u>Astragalus camptopus</u> Murphy milkvetch	G3/S3	M	3c			S	Ow
<u>Astragalus ceramicus</u> var. <u>apus</u> Painted milkvetch	G4T3/S3	M	3c				Bu,Ck,Fm,Jf
<u>Astragalus conjunctus</u> Stiff milkvetch	G5/SU	R					Ow
<u>Astragalus drummondii</u> Drummond's milkvetch	G5/S1	R					Ck,Fm
<u>Astragalus eucosmus</u> Elegant milkvetch	G5/S1	R					Cu,Fm
<u>Astragalus gilviflorus</u> Plains milkvetch	G4/S1	1			S	S	Ck,Fm
<u>Astragalus jejunus</u> Starveling milkvetch	G4/S3?	M					Bl
<u>Astragalus kentrophyta</u> var. <u>jessiae</u> Thistle milkvetch	G5T4/S2	S				S	Bu,Ow
<u>Astragalus leptaleus</u> Park milkvetch	G4/S1	1			S	S	Cu
<u>Astragalus microcystis</u> Least bladderly milkvetch	G5/SH	R					Bn,Ko
<u>Astragalus mulfordiae</u> Mulford's milkvetch	G2/S1		C2			S	Aa,Ow,Pa,Wa
<u>Astragalus newberryi</u> var. <u>newberryi</u> Newberry's milkvetch	G5T5?/S1	R					Tw
<u>Astragalus oniciformis</u> Picabo milkvetch	G3/S3	M	3c			S	Bl,Li,Mi
<u>Astragalus paysonii</u> Payson's milkvetch	G4/S2	S	3c	S	S		Bv,Id
<u>Astragalus platytropis</u> Broad-keeled milkvetch	G7/S3	R					Bu,Ck,Cu,Lm
<u>Astragalus purshii</u> var. <u>ophiogenes</u> Snake River milkvetch	G5T3/S3	S	3c			S	Aa,El,Go,Ow,Tw
<u>Astragalus riparius</u> Piper's milkvetch	G3/S1	1				S	La,Ne
<u>Astragalus salmonis</u> Trout Creek milkvetch	G4/S1	R					Ow
<u>Astragalus scaphoides</u> Bitterroot milkvetch	G3/S3	S			S	S	Ck,Cu,Lm
<u>Astragalus spatulatus</u> Draba milkvetch	G5/S3	M					Ba,Bi,Bl,Cb,Cs,Po
<u>Astragalus sterilis</u> Barren milkvetch	G3/S1		C2			S	Ow
<u>Astragalus tetrapterus</u> Four-wing milkvetch	G4/S1	2					Tw
<u>Astragalus vallis</u> Snake Canyon milkvetch	G4/S3	S				S	As,Wa
<u>Astragalus vexilliflexus</u> var. <u>nubilus</u> White Clouds milkvetch	G4T1/S1		C2		S		Cu
<u>Astragalus yoder-williamsii</u> Osgood Mountains milkvetch	G3?/S3?		C2			S	Ow
<u>Bacopa rotundifolia</u> Roundleaf water-hyssop	G5/S1	1					Cn
<u>Betula pumila</u> var. <u>glandulifera</u> Dwarf birch	G7/S2	S					Bd
<u>Blechnum spicant</u> Deer-fern	G5/S2	2		S		S	Bn,BW,Cw

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Blepharidachne kingii</u> King's desertgrass	G7/S1	1					Ow
<u>Botrychium ascendens</u> Triangular-lobed moonwort	G7/S1	R					Cw
<u>Botrychium crenulatum</u> Crenulate moonwort	G1G3Q/SU	R	C2				?
<u>Botrychium lanceolatum</u> var. <u>lanceolatum</u> Lance-leaved moonwort	G5T5/S1	R					Bd
<u>Botrychium lunaria</u> Moonwort	G5/SU	R					?
<u>Botrychium minganense</u> Mingan moonwort	G4/S1	R		S			Bd,Cw
<u>Botrychium montanum</u> Mountain moonwort	G2G3/SU	R					?
<u>Botrychium pedunculatum</u> Staked moonwort	G7/SU	R					?
<u>Botrychium pinnatum</u> Northern moonwort	G7/SU	R					Bd
<u>Botrychium simplex</u> Least moonwort	G5/S1	R					Bl,Cw,Va
<u>Bouteloua gracilis</u> Blue gramma	G5/S1	2					Ck,Lm
<u>Calamagrostis tweedyi</u> Cascade reedgrass	G3/S1	2	3c	S	S		Id
<u>Calandrina ciliata</u> Red maids	G4/S1	R					El,Go
<u>Calochortus macrocarpus</u> var. <u>maculosus</u> Green-band mariposa lily	G4T2/S2	2		S		S	Ne
<u>Calochortus nitidus</u> Broad-fruit mariposa	G2/S2		C2	S		S	Cw,Id,La,Lw,Ne,
<u>Camassia cusickii</u> Cusick's camas	G4/S2	S	3c			S	As,Ge,Wa
<u>Camissonia palmeri</u> Palmer's evening primrose	G7/S2?	S					Bl
<u>Camissonia pterosperma</u> Winged-seed evening primrose	G4/S2	S				S	Bu,Ck
<u>Campanula scabrella</u> Rough bellflower	G4/S1	S		W			As,Id,Lm
<u>Cardamine constancei</u> Constance's bittercress	G3/S3	S	3c	S			Cw,Id,Sh
<u>Carex aboriginum</u> Indian Valley sedge	GX/SX		C2*				As
<u>Carex aenea</u> Bronze sedge	G5/S2?	R		W	S		Fm,Id,Ko,Va
<u>Carex angustata</u> Narrow sedge	G5/S1?	R					As,Va
<u>Carex breweri</u> var. <u>paddoensis</u> Brewer's sedge	G5T4/S1	S					Cu
<u>Carex buxbaumii</u> Buxbaum's sedge	G5/S2	S		W	S	S	Bd,Bl,Bn,Cu,Fm
<u>Carex californica</u> California sedge	G5/S2?	R		S			Cu,Id,Sh
<u>Carex chordorrhiza</u> String-root sedge	G7/S1	1					Bn
<u>Carex comosa</u> Bristly sedge	G5/S1	1					Bd
<u>Carex flava</u> Yellow sedge	G5/S3	S		W		S	Bd,Bn,Bo,Va

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Carex hendersonii</u> Henderson's sedge	G5/S2	S		W		S	Cw, Id
<u>Carex idaho</u> Idaho sedge	G2Q/SH	R	3c				Ck
<u>Carex lenticularis</u> var. <u>impressa</u> Lenticular sedge	G5T4/SU	R					?
<u>Carex lenticularis</u> var. <u>lenticularis</u> Lenticular sedge	G5T5/S1?	R					Bo, El, Ow, Sh
<u>Carex leptalea</u> Bristle-stalked sedge	G7/S1	R					Bn, Cw
<u>Carex livida</u> Pale sedge	G5/S1	1		W			Bl, Bn, Cu
<u>Carex paupercula</u> Poor sedge	G5/S2	2		W			Bd, Bn
<u>Carex sheldonii</u> Sheldon's sedge	G4?/S1	R					Ba, Bn, Ow, Va
<u>Carex straminiformis</u> Mt. Shasta sedge	G4/S2	R			S		Cu, Lm, Sh
<u>Carex tumulicola</u> Foothill sedge	G4/SH	R		W			Ba, Sh
<u>Castilleja angustifolia</u> var. <u>flavescens</u> Narrow-leaved Indian paintbrush	G5TU/SU	R					Cs
<u>Castilleja christii</u> Christ's Indian paintbrush	G1/S1		C1		S	S	Cs
<u>Castilleja oresbia</u> Pale Wallowa Indian paintbrush	G3?/S2	S	3c		S	S	As, Id, Va
<u>Castilleja pulchella</u> Beautiful Indian paintbrush	G3?/S1	M					Fm
<u>Ceanothus prostratus</u> Mahala-mat ceanothus	G5/S1	1			S	S	As
<u>Chaenactis cusickii</u> Cusick's false yarrow	G3/S1	1				S	Cn, Ow
<u>Chrysothamnus albidus</u> White-flowered rabbitbrush	G4/SU	R					Cs?
<u>Chrysothamnus nauseosus</u> ssp. <u>graveolens</u> Heavy gray rabbitbrush	G5T5/S2	R					Ow
<u>Chrysothamnus nauseosus</u> ssp. <u>nanus</u> Dwarf gray rabbitbrush	G5T4/S2	M	3c				Wa, Ne
<u>Chrysothamnus nauseosus</u> ssp. <u>nauseosus</u> Gray rabbitbrush	G5T5/SU	R					Ck?, Fm?, Lm?
<u>Chrysothamnus parryi</u> ssp. <u>montanus</u> Centennial rabbitbrush	G5T1S1		C2		S		Ck
<u>Cicuta bulbifera</u> Bulb-bearing waterhemlock	G5/S1	S					Bd, Bn, Te
<u>Claytonia lanceolata</u> var. <u>flava</u> Yellow spring-beauty	G5T1/S1		C2		S	S	Fm
<u>Cleomella plocasperma</u> Flat-seeded cleomella	G4/S1	1					Ow
<u>Collomia debilis</u> var. <u>camporum</u> Flexible alpine collomia	G4T3/S2	S				S	Lm
<u>Collomia heterophylla</u> Varied-leaved collomia	G4/S3	M					Bw, Cw, Id, Ko
<u>Cornus nuttallii</u> Pacific dogwood	G4/S1	1		S		S	Id
<u>Corydalis caseana</u> var. <u>hastata</u> Case's corydalis	G5T3/S3	M	3c	W			Cw, Id, Sh
<u>Coryphantha missouriensis</u> Nipple cactus	G5/S3	S				S	Bu, Ck, Cu, Lm

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Coryphantha vivipara</u> Cushion cactus	G4/S2	S				S	Aa,Cs,Lm
<u>Crepis bakeri</u> ssp. <u>idahoensis</u> Idaho Baker hawkbeard	G4T1/S1	2					Aa?,As?,La,Ne,Wa?
<u>Cryptantha breviflora</u> Uinta Basin cryptantha	G4/S1	S	3c			S	Bl
<u>Cryptantha propria</u> Malheur cryptantha	G3/S1	R				S	As,Go,Ow,Tw,Wa
<u>Cryptantha simulans</u> Pine woods cryptantha	G4/S1	S			S	S	Bo,La,Ow
<u>Cryptogramma stelleri</u> Steller's rockbrake	G5/SU	R					?
<u>Cuscuta denticulata</u> Sepal-tooth dodder	G4?/S1?	R					Ck,Id
<u>Cymopterus acaulis</u> var. <u>greeleyorum</u> Greeley's wavewing	G5T2/S1	S				S	Ow
<u>Cymopterus corrugatus</u> Corrugated wavewing	G4/S3	R	3c				Cn,Ow
<u>Cymopterus davisii</u> Davis' wavewing	G1/S1		C2		S		Cs
<u>Cymopterus douglassii</u> Douglass' wavewing	G2/S2		C2		S		Cu,Lm
<u>Cymopterus ibapensis</u> Ibapah wavewing	G4?/S2	S	3c				Bu,Cu,Lm
<u>Cyperus rivularis</u> Shining flatsedge	G5/SU	R					Aa,Cn,Ow
<u>Cypripedium calceolus</u> ssp. <u>parviflorum</u> Small yellow lady's-slipper	G5T5/S1	1			W		Bo
<u>Cypripedium fasciculatum</u> Clustered lady's-slipper	G3/S3	S	3c	S		S	Bw,Cw,Id,Ko,La, Sh
<u>Dasynotus daubenmirei</u> Dasynotus	G3/S3	S	3c	S			Id
<u>Dimeresia howellii</u> Dimeresia	G4/S2	2				S	Ow
<u>Dodecatheon dentatum</u> White shooting-star	G4/S2	S		S		S	Bw,Cw,Sh
<u>Dodecatheon hendersonii</u> Henderson's shooting-star	G2/S1	1		S		S	Cw,Id
<u>Douglasia idahoensis</u> Idaho douglasia	G1/S1		C2	S	S		Bo,Id,Va
<u>Draba argyraea</u> Silvery whitlow-grass	G3/S3	M	3c				Bl,Bo,Cu,El,Va
<u>Draba daviesiae</u> Davies' whitlow-grass	G2/S1	S	3c		S		Cu
<u>Draba fladnizensis</u> Austrian whitlow-grass	G5/S1	R					Cu
<u>Draba maguirei</u> Maguire's whitlow-grass	G3T2T3/SU	R	3c				Bl?,Fk?
<u>Draba trichocarpa</u> Stanley whitlow-grass	G2/S2		C2		S		Cu
<u>Dryopteris cristata</u> Crested shield-fern	G5/S2	S					Bd,8n
<u>Eatonella nivea</u> White eatonella	G4/S3	M				S	As,Cu,El,Ow
<u>Eburophyton austiniiae</u> Phantom orchid	G4/S2?	2		S			Bw,Cw,Id,Sh
<u>Elaeagnus commutata</u> American silverberry	G5/S3	M			S		Bv,Cu,Jf

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Epilobium palustre</u> Swamp willow-weed	G?/S1	R					Bd, Bn
<u>Epipactis gigantea</u> Giant helleborine	G4/S3	2		W	S	S	Bd, Bn, Bo, Ck, Cu, El, Id, Jr, Lm, Ow, Tw
<u>Erigeron humilis</u> low fleabane	G4/S2	M					Bu, Cu, Lm
<u>Erigeron latus</u> Broad fleabane	G2/S2		C2			S	Ow, Tw
<u>Erigeron radicans</u> Taprooted fleabane	G3/S3	M			S		Bu, Cu, Fm, Lm
<u>Erigeron salmonensis</u> Salmon River fleabane	G1/S1		C2				Lm
<u>Eriogonum brevicaule</u> var. <u>laxifolium</u> Short-stemmed buckwheat	G4T3?/S1	R					Ca, Bl, Bv
<u>Eriogonum desertorum</u> Desert buckwheat	G3G4/S1	1					Cs
<u>Eriogonum douglasii</u> var. <u>douglasii</u> Dougals' buckwheat	G5T4/S1?	R					Ad, El, Id
<u>Eriogonum melodonum</u> Guardian buckwheat	G1/S1	1			S		Cu
<u>Eriogonum salicornioides</u> Annual salt buckwheat	G3/S3	R				S	Bl, Bu, Ca, El, Ow
<u>Eriogonum ochrocephalum</u> var. <u>sceptrum</u> Wanded buckwheat	G4T2/S2	R					El, Lm, Ow, Pa, Tw
<u>Eriogonum shockleyi</u> var. <u>packardiae</u> Packard's cowpie buckwheat	G5T1/S1	1				S	Aa
<u>Eriogonum shockleyi</u> var. <u>shockleyi</u> Matted cowpie buckwheat	G4T4?/S2	S				S	Aa, Ba, El, Ow
<u>Eriophorum viridicarinatum</u> Green keeled cotton-grass	G?/S1?	R					Bn, Te
<u>Erythronium grandiflorum</u> ssp. <u>nudipetalum</u> Bear Valley fawn-lily	G5T1/S1		C2				Va
<u>Festuca subuliflora</u> Crinkle-awn fescue	G5/S2	2			S		Cw, Id
<u>Frasera albicaulis</u> var. <u>idahoensis</u> Idaho frasera	G5T3Q/S2?	R	3c				As, Id, Ge, Ne
<u>Gaultheria hispidula</u> Creeping snowberry	G5/S2	2			S		Bd, Bn
<u>Gentiana propinqua</u> Four-parted gentian	G4/S1	M			S		Cu, Fm
<u>Gentiana tenella</u> Slender gentian	G4/S1	M			S		Cu
<u>Gilia polycladon</u> Spreading gilia	G4/S1	2				S	Bu
<u>Glyptopleura marginata</u> White-margined wax plant	G4/S2	1				S	Aa, Cn, Ow, Tw
<u>Grindelia howellii</u> Howell's gumweed	G3/S1		C2		S	S	Bw
<u>Gymnosteris nudicaulis</u> Large-flowered gymnosteris	G4/S3	M				S	Bi, Bl, Bu, Ck, Cn, Cs, El, Ge, Go, Li, Mi, Ow, Po
<u>Gymnosteris parvula</u> Small-flowered gymnosteris	G4/S1?	R				S	Bl, Cb, Li, Ow
<u>Habenaria obtusata</u> Small northern bog-orchid	G4G5/S2?	R					Id
<u>Hackelia davisii</u> Davis' stickseed	G3/S3	M	3c		S		Cu, Lm, Va
<u>Hackelia ophiobia</u> Rattlesnake stickseed	G3?/S2	S	3c			S	Ow

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Halimolobos perplexa</u> var. <u>lemhiensis</u> Puzzling halimolobos	G4T4/S4	M	3c		S		Cu, Lm, Va
<u>Halimolobos perplexa</u> var. <u>perplexa</u> Puzzling halimolobos	G4T3/S3	M	3c	S	S	S	As, Id
<u>Haplopappus aberrans</u> Idaho goldenweed	G3/S3	M	3c		S		Bl, Bo, Cu, El
<u>Haplopappus bloomeri</u> Rabbitbrush goldenweed	G4/S1	R					Cw, Ow
<u>Haplopappus hirtus</u> var. <u>sonchifolius</u> Sticky goldenweed	G4TU/SU	R					Cs, Ne
<u>Haplopappus insecticruris</u> Bugleg goldenweed	G3/S3		C1		S	S	Cm, El
<u>Haplopappus integrifolius</u> ssp. <u>integrifolius</u> Entire-leaved goldenweed	G4?T4?/SU	R					Ck, Fm
<u>Haplopappus liatrifolius</u> Palouse goldenweed	G2/S1		C2			S	La, Lw, Ne
<u>Haplopappus racemosus</u> var. <u>glomerellus</u> Racemed goldenweed	G4TU/SU	R					El, Ge, Cs
<u>Haplopappus radiatus</u> Snake River goldenweed	G2?/S1		C1		S	S	Wa
<u>Haplopappus resinosus</u> Columbia goldenweed	G4/SU	R					Id, Ne, Ow
<u>Haplopappus spinulosus</u> var. <u>spinulosus</u> Spiny goldenweed	G4T4Q/SU	R					Ba
<u>Haplopappus uniflorus</u> ssp. <u>howellii</u> One-flowered goldenweed	G4T3?/S1?	R					Ow
<u>Howellia aquatilis</u> Water howellia	G2/S1		C1	W		S	La
<u>Hulsea nana</u> Dwarf hulsea	G?/S1	S					Id
<u>Hydrophyllum occidentale</u> var. <u>watsonii</u> Western waterleaf	G4T4/S3	2			S		El, On
<u>Hymenoxys richardsonii</u> Richardson's butterweed	G4/S1	R					Cs
<u>Hypericum majus</u> Large Canadian St. John's-wort	G5/S1	2				S	Bn
<u>Ivesia tweedyi</u> Tweedy's ivesia	G4/S2?	M					Bd, Id, Sh
<u>Juncus effusus</u> var. <u>pacificus</u> Soft rush	G5T5/S3	M		S		S	Cw, Ow
<u>Juncus hallii</u> Hall's rush	G?/S2?	S					Cw, Lm, Ow
<u>Juncus kelloggii</u> Kellogg's rush	G5/SU	R					?
<u>Kobresia simpliciuscula</u> Simple kobresia	G5/SH	X					Te
<u>Ledum groenlandicum</u> Bog Labrador-tea	G5/SH	X					Bn?, Bd?
<u>Lepidium davisii</u> Davis' peppergrass	G3/S3		C2			S	Aa, El, Ow, Tw
<u>Lepidium montanum</u> var. <u>papilliferum</u> Montane peppergrass	G4T2/S1		C2			S	Aa, Cn, El, Ge, Pa
<u>Leptodactylon glabrum</u> Bruneau River prickly phlox	G1/S1		C2			S	Ow
<u>Leptodactylon pungens</u> ssp. <u>hazeliae</u> Hazel's prickly phlox	G5T1/S1		C2			S	As, Id
<u>Lesquerella kingii</u> var. <u>cobrensis</u> King's bladderpod	G4T2/S3	S				S	Bi, Bu, Bv

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Lesquerella paysonii</u> Payson's bladderpod	G4S1	S				S	Bv
<u>Lewisia kelloggii</u> Kellogg's bitterroot	G4/S1	R					Cu,El,Va
<u>Lobelia kalmii</u> Kalm's lobelia	G5/SU	R					Bd?,Bn?
<u>Lomatium dissectum</u> var. <u>dissectum</u> Fern-leaved desert-parsley	G5T5/S1	S				S	Id,Ne
<u>Lomatium rollinsii</u> Rollins' desert-parsley	G4/S3	M	3c	S	S	S	Id,Ne
<u>Lomatium salmoniflorum</u> Salmon-flower desert-parsley	G2/S2	R					Cw,Id,La,Lw,Ne
<u>Lomatogonium rotatum</u> Marsh felwort	G5/S1	2					Cu,Lm
<u>Lotus humistratus</u> Deervetch	GU/SU	R					Go,Li
<u>Ludwigia polycarpa</u> Many-fruit false-loosestrife	G4/S1?	R					Ko
<u>Lupinus cusickii</u> ssp. <u>cusickii</u> Cusick's lupine	G2T1/SH		C2		S		Va
<u>Lupinus lyallii</u> ssp. <u>alcis-temporis</u> Elk season lupine	G4T1?/S1?	R		W			Cw
<u>Lupinus lyallii</u> ssp. <u>subpandens</u> Lyall's lupine	G4T2/S2	R					Cm,Ow
<u>Lupinus uncialis</u> Inch-high lupine	G4/S1	S				S	Ow
<u>Lychnis apetala</u> var. <u>montana</u> Apetalous campion	G?T?/S1	2					Bl,Cu,Lm
<u>Lycopodium inundatum</u> Northern bog clubmoss	G5/S1	1			S		Bd,Bn
<u>Lycopodium sitchense</u> Sitka clubmoss	G5Q/S1	S			W		Bd,Bn,Id
<u>Machaeranthera laetevirens</u> Vivid green aster	G1?/S1		C2		S		Bl,Cs,Cu
<u>Machaeranthera shastensis</u> var. <u>latifolia</u> Shasta aster	G5T4/S1?	R					Cs
<u>Machaerocarpus californicus</u> Fringed waterplantain	G4/S1	M					Cm,Ow
<u>Maianthemum dilatatum</u> False lily-of-the-valley	G4/S1	1			S	S	Bn
<u>Malacothrix glabrata</u> Smooth malacothrix	G5/S2?	S				S	El,Ow
<u>Malacothrix torreyi</u> Torrey's malacothrix	G2/S2	M				S	Bu,Ck,Cn,Cu,El,Ow
<u>Mentzelia mollis</u> Smooth stickleaf	G2?/S1		C2			S	Ow
<u>Mentzelia torreyi</u> var. <u>acerosa</u> Torrey's blazing star	G4?T2?/S2	S				S	Aa,El,Go,Ow,Tw
<u>Mertensia bella</u> Oregon bluebells	G4/S3	M			S		Cw,Id
<u>Mimulus clivicola</u> Bank monkeyflower	G2/S2		C2		S	S	As,Cw,Id,Ko,La,Ne
<u>Mimulus patulus</u> Stalk-leaved monkeyflower	G2?/SU		C2				Ne?
<u>Mimulus ringens</u> Allegheny monkeyflower	G5/S1	1					Cn
<u>Mimulus washingtonensis</u> ssp. <u>ampliatus</u> Spacious monkeyflower	G3?T1/S1	R					Id,Lw,Ne

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Mirabilis macfarlanei</u> Macfarlane's four-o'clock	G1/S1		LE		S	S	Id
<u>Muhlenbergia glomerata</u> Marsh muhly	G5/S1?	R					Bi, Bn, Fm
<u>Muhlenbergia racemosa</u> Green muhly	G5/S1?	R					Bi, Bn, Fm, Id
<u>Nemacladus rigidus</u> Rigid threadbush	G4/S1	R				S	Ow
<u>Nymphaea tetragona</u> Pygmy water-lily	G5/SH	X			W		Bn
<u>Oenothera psammophila</u> St. Anthony evening primrose	G3/S3		C2			S	Fm
<u>Oryzopsis</u> sp. nov. Ricegrass	GU/SU	R					Bu, Cu, Lm, Va
<u>Oryzopsis swallenii</u> Swallen's ricegrass	G5/S5	M	3c				Bu, Ck, Cu, Lm
<u>Oxalis trilliifolia</u> Trillium-leaved wood-sorrel	G5/S1	1			S		Bd
<u>Oxytheca dendroidea</u> Tree-like oxytheca	G4/S2	S					Bi, Bu, El, Li, Fm
<u>Oxytropis besseyi</u> var. <u>salmonensis</u> Challis crazyweed	G5T2/S2	M			S	S	Cu, Lm
<u>Papaver kluanense</u> Arctic poppy	G4/S1	1			S		Lm
<u>Parnassia kotzebuei</u> var. <u>kotzebuei</u> Kotzebue's grass-of-Parnassus	G4T4/S3	M			S		Cu
<u>Pediocactus simpsonii</u> var. <u>robustior</u> Simpson's hedgehog cactus	G4T4/S3	S				S	Cs, Ne, Ow, Tw
<u>Penstemon elegantulus</u> Lovely penstemon	G4/S1	R	3c	W	S		Id, Ne
<u>Penstemon idahoensis</u> Idaho penstemon	G1/S1		C2		S		Cs
<u>Penstemon janishiae</u> Janish's penstemon	G4/S1?	2					El, Ow
<u>Penstemon lemhiensis</u> Lemhi penstemon	G3/S2		C2		S	S	Lm
<u>Penstemon leonardii</u> var. <u>leonardii</u> Leonard's penstemon	G7/S1	R					Bl, Cb, Fk
<u>Peraphyllum ramosissimum</u> Squaw apple	G4/S1	2				S	Wa
<u>Petasites sagittatus</u> Arrowleaf coltsfoot	G4/S3	M					Bd, Bn, Ko
<u>Peteria thompsoniae</u> Spine-noded milkvetch	G4/S1	1	3c			S	Ow
<u>Phacelia inconspicua</u> Obscure phacelia	G1/S1		C2			S	Bu
<u>Phacelia lutea</u> var. <u>calva</u> Malheur yellow phacelia	G4T2?/S2	S				S	Ow
<u>Phacelia lyallii</u> Lyall's phacelia	G2/S1	S			S		Id, Lm
<u>Phacelia minutissima</u> Least phacelia	G4/S1	1				S	Cm, Ow
<u>Phlox idahonis</u> Clearwater phlox	G1/S1		C1	W		S	Cw
<u>Physaria didymocarpa</u> var. <u>lyrata</u> Salmon twin bladderpod	G5T1/S1		C2		S	S	Lm
<u>Pityrogramma triangularis</u> Gold-back fern	G4G5/S1	1					Id

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Polypodium glycyrrhiza</u> Licorice fern	G5/S1	S		W			Cw, Id
<u>Polystichum kruckebergii</u> Kruckeberg's sword-fern	G5/S1	S	3c	W			Cu, Id
<u>Potamogeton diversifolius</u> Water-thread pondweed	G5/SU	R					Ow, Cm
<u>Prenanthes alata</u> Western rattlesnake-root	G7/S1	1					Cw, Lm, Va
<u>Primula alcalina</u> Alkali primrose	G1/S1		C2		S	S	Ck, Cu, Lm
<u>Primula incana</u> Jones' primrose	G4/S1	R					Cu, Te
<u>Primula wilcoxiana</u> Wilcox's primrose	G2Q/S2		3b		S	S	Aa, Bo, Cn, El, Ge
<u>Psilocarphus brevissimus</u> var. <u>brevissimus</u> Dwarf woolly-heads	G5T7/S1	R					El, Li, Ow
<u>Psilocarphus oregonus</u> Oregon woolly-heads	G4/S3	R					Aa, As, Cw, Fm, Id, Li
<u>Psilocarphus tenellus</u> Slender woolly-heads	G4/S1?	R		S			Cw, Id, Ko, La
<u>Psoralea physoides</u> California scurf-pea	G4/S1	1					La
<u>Ranunculus gelidus</u> Arctic buttercup	G5/S1	R					Cu
<u>Ranunculus pygmaeus</u> Pygmy buttercup	G5/S1	R					Cu
<u>Rhinanthus crista-galli</u> Yellow rattle-box	G4/SH	X					La
<u>Rhynchospora alba</u> White beakrush	G7/S1	2					Bd, Bn, Va
<u>Ribes howellii</u> Howell's gooseberry	G4/S1	1		S			Bd, Bn
<u>Ribes sanguineum</u> Red-flowered currant	G5/S1	1		W			Bw
<u>Ribes velutinum</u> var. <u>nov.</u> new gooseberry	G5T3/S3	R					Lm
<u>Ribes wolfii</u> Wolf's currant	G4/S1	S		S			Id, Va
<u>Romanzoffia sitchensis</u> Sitka mistmaiden	G4/S1	S					Bd
<u>Rubus bartonianus</u> Bartonberry	G2/S2	M	3c	S			As, Id
<u>Rubus spectabilis</u> Salmonberry	G5/SH	X		W			Bn
<u>Salicornia rubra</u> Red glasswort	G4/SU	M					Bi, Cb, Cs
<u>Salix candida</u> Hoary willow	G5/S1	S			S	S	Bd, Cb, Lm
<u>Salix farriae</u> Farr's willow	G4/S1	2			S		Cu
<u>Salix glauca</u> Gray willow	G4/S1	M					As, Bl, Bn, Fm, Id
<u>Salix pedicellaris</u> Bog willow	G5/S1	S		W			Bd, Bn
<u>Sanicula graveolens</u> Sierra sanicle	G4/S1	S					Id, Va
<u>Sanicula marilandica</u> Black snake-root	G5/S1	S		W			Bd, Bn, Ko

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Saxifraga adscendens</u> var. <u>oregonensis</u> Wedge-leaf saxifrage	G4?T4/S1	M			S		Bl,Cu
<u>Saxifraga bryophora</u> var. <u>tobiasiae</u> Tobias' saxifrage	G5T2/S2		C2		S		Id,Va
<u>Saxifraga cernua</u> Nodding saxifrage	G4/S2	R			S		Bu,Cu,Fm,Lm
<u>Scheuchzeria palustris</u> Pod grass	G5/S3	M					Bd,Bn
<u>Scirpus cyperinus</u> Wool-grass	G5/S3	2		S			Bw,Bd,Bn,Ko,La
<u>Scutellaria nana</u> var. <u>nana</u> Dwarf skullcap	G4T4/S1	M					Go,Ow,Tw
<u>Sedum borschii</u> Borsch's stonecrop	G?/S?	M					Id,Va
<u>Sedum lanceolatum</u> var. <u>rupicolum</u> Lance-leaved stonecrop	G4Q/S1	S				S	Id,Sh
<u>Senecio streptanthifolius</u> var. <u>laetiflorus</u> Gay-flowered groundsel	G5T3?/S1	R					Ow,Te
<u>Silene scapoza</u> var. <u>lobata</u> Scapose silene	G4T4/S3	M	3c				Bu,Ck
<u>Silene spaldingii</u> Spalding's silene	G2/S1		C2	W	S	S	Lw
<u>Solidago spectabilis</u> Spectacular goldenrod	G4/SH	X					Ow
<u>Stellaria calycantha</u> var. <u>calycantha</u> Northern starwort	G5T4/S2?	R		W			Bd,Bn
<u>Stipa pinetorum</u> Pine needlegrass	G4/S1	R			S		Ck,Cu
<u>Stipa viridula</u> Green needlegrass	G4/S1	R			S		Cb,Ck,El,Ow
<u>Stipa webberi</u> Webber's needlegrass	G4/S2?	S				S	Bi,Bl,Bv,Ck,Cs,El,Go,Tw
<u>Streptopus streptopoides</u> var. <u>brevipes</u> Kruhsea	G5T4/S1	X		W			Bd
<u>Stylocline filaginea</u> Stylocline	G4/S2?	M				S	Aa,El,Go,Li,Ow
<u>Synthyris platycarpa</u> Evergreen kittentail	G3/S3	M	3c	W			Id,Cw
<u>Tauschia tenuissima</u> Leiberg's tauschia	G2/S2	M	3c	S		S	Bw,Cw,La,Sh
<u>Telesonix jamesii</u> James' saxifrage	G4/S1	M					Fm
<u>Teucrium canadense</u> var. <u>occidentale</u> American wood sage	G5T4/S1	1				S	Aa,Cn,Id,Wa
<u>Thalictrum dasycarpum</u> Purple meadow-rue	G5/S1	R					Bd,Bn
<u>Thelypodium laciniatum</u> var. <u>streptanthoides</u> Purple thick-leaved thelypody	G5T4?/S1	2					Ne,Id
<u>Thelypodium repandum</u> Wavy-leaf thelypody	G2/S2		C2		S	S	Cu,Lm
<u>Thelypteris nevadensis</u> Sierra wood-fern	G4/S1	2		S			Cw
<u>Thlaspi aileeniae</u> Stanley thlaspi	G3Q/S3	M			S		Bl,Cu
<u>Tofieldia glutinosa</u> ssp. <u>absona</u> Out-of-tune sticky tofieldia	G5T1/S1		C2	S	S		Bn
<u>Tofieldia glutinosa</u> ssp. <u>brevistyla</u> Short-style sticky tofieldia	G5T4/S1	1					Cw

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
<u>Townsendia scapigera</u> Scapose townsendia	G4G5/S1?	R					TW
<u>Trientalis arctica</u> Northern starflower	G4/S3	S		S			Bd, Bn
<u>Trientalis latifolia</u> Western starflower	G5/S3	M		S			BW, CW, Id
<u>Trifolium microdon</u> Valpariso clover	G4Q/SH	R					As, OW
<u>Trifolium multipedunculatum</u> Many-stalked clover	G4Q/S1	R			W		Id
<u>Trifolium owyheense</u> Owyhee clover	G2?/S1		C2			S	OW
<u>Trifolium plumosum</u> var. <u>amplifolium</u> Plumed clover	G3T3?/S3?	S	3c			S	CW, Id, LW, Ne, Wa
<u>Vaccinium oxycoccos</u> Bog cranberry	G5/S1	2		S			Bn
<u>Viburnum opulus</u> var. <u>americanum</u> High-bush cranberry	G5T?/SH	X					Bd
<u>Viola sempervirens</u> Redwoods violet	G5/S3	2		S			Bn, CW, Ko
<u>Waldsteinia idahoensis</u> Idaho strawberry	G3/S3	M	3c		W		CW, Id, Sh

MOSESSES

<u>Bryum calobryoides</u> Beautiful bryum	G5/S1	1					El
<u>Buxbaumia aphylla</u> Leafless bug-on-a-stick	G4/SH	1					?
<u>Buxbaumia piperi</u> Piper's bug-on-a-stick	G4/SH	1					?
<u>Melodium blandowii</u> Blandow's helodium	G5/S2?	S					Bd?, Bn?
<u>Hookeria lucens</u> Light hookeria	G4/S2?	2					Bd?, Bn?
<u>Meesia logiseta</u> Meesia	G5/SH	1					?
<u>Sphagnum mendocinum</u> Peatmoss	G4/S1	2					Bn, Id
<u>Tayloria serrata</u> Serrate tayloria	G5/S3?	M					?
<u>Ulota curvifolia</u> Curve-leaved ulota	G5/SU	R					?
<u>Ulota megalospora</u> Large-spored ulota	G4/S2?	2					?

SPECIAL PLANTS (cont.)

Taxon	Heritage Rank	INPS Cat.	Federal Status	FS R1	FS R4	BLM	County Distribution
LICHENS							
<u>Cladonia transcendens</u> Transcending reindeer lichen	G5/S2?	2					Id?
<u>Cladonia verruculosa</u> Warty reindeer lichen	G3/S1	2					Id,Sh
<u>Collema curtisporum</u> Short-spored jelly lichen	G1/S1	1					Id,Sh
<u>Collema furfuraceum</u> Scurffy jelly lichen	G5/S1	2					Sh
<u>Hypogymnia enteromorpha</u> Tube lichen	G4/S1	2					Id,Sh
<u>Lobaria hallii</u> Hall's lungwort	G4/S1	2					Sh
<u>Lobaria linita</u> Smeared lungwort	G4/S1	2					Id
<u>Lobaria scrobiculata</u> Pored lungwort	G3G4/S1	2					Id,Sh
<u>Pilophorus acicularis</u> Nail lichen	G4/S1	2					Sh
<u>Ramalina thrausta</u> Hanging cartilage lichen	G4/S1	2					Id
<u>Physcia semipinnata</u> Dot lichen	G5/S1	2					Id
<u>Pseudocyphellaria anthraspis</u> White-dot lichen	G4/S1	2					Id
<u>Sphaerophorus tuckermannii</u> Tuckermann's ball-bearing lichen	G4/S1	2					Id
<u>Texosporium sancti-jacobi</u> Wovenspore lichen	G2/S1	1				S	Aa
<u>Xanthoparmelia idahoensis</u> Idaho range lichen	G2/S1	1				S	Lm

SPECIAL PLANTS (cont.)

TAXA DROPPED FROM CONSIDERATION IN IDAHO*

Achillea millefolium var. californicum (does not occur)
Antennaria acuta (=A. alpina var. media, in part)
Artemisia lindleyana (common, no threat)
Aster sibiricus var. meritus (common, no threat)
Astragalus aboriginum (common, no threat)
Astragalus cusickii var. cusickii (common, no threat)
Astragalus cusickii var. flexilipes (common, no threat)
Botrychium lunaria var. onondagense (does not occur; ID plants = B. minganense)
Botrychium matricarifolium (does not occur)
Carex lenticularis var. dolia (does not occur)
Carex limosa (common, no threat)
Carex rupestris var. drummondiana (common, no threat)
Carex sitchensis (=C. aquatilis, in part)
Chrysothamnus parryi ssp. salmonensis (common, no threat)
Epilobium obcordatum (common, no threat)
Epilobium watsonii var. parishii (unknown reasons)
Erigeron eatonii var. lavandulus (common, no threat)
Erigeron disparipilus (common, no threat)
Erigeron tweedyi (common, no threat)
Eriogonum thymoides (common, no threat)
Galium multiflorum var. subalpinum (common, no threat)
Haplopappus stenophyllus (common, no threat)
Ivesia baileyi (common, no threat)
Lewisia columbiana var. columbiana (common, no threat)
Lindernia anagallidea (unknown reasons)
Oenothera pallida var. idahoensis (common, no threat)
Pellaea bridgesii (common, no threat)
Polygonum newberryi (common, no threat)
Primula cusickiana (common, no threat)
Ranunculus andersonii (common, no threat)
Saxifraga foliolosa var. foliolosa (does not occur; ID plants = S. bryophora var. tobiasiae)
Saxifraga tolmiei var. ledifolia (common, no threat)
Selaginella douglasii (common, no threat)
Stellaria simcoei (=S. calycantha, in part)
Trifolium haydenii (common, no threat)
Veratrum californicum var. caudatum (common, no threat)

*Taxa included in the Redbook or taxa considered since 1983, that have since been found to be more common than previously thought. See the Redbook for taxa considered and dropped prior to 1983.

SPECIAL ANIMALS

In 1977, Dr. Charles Trost (Idaho State University) and Dr. Don Johnson (University of Idaho), on behalf of the Idaho Natural Areas Council, compiled the first state list of vertebrate species of special concern in Idaho. It primarily analyzed the status of 48 rare fishes, amphibians, reptiles, birds, and mammals with respect to their conservation in Research Natural Areas. Subsequently, the Idaho Department of Fish and Game published their first list of Species of Special Concern in 1981-1985 Nongame Management Plan, much of it based on the earlier work of Trost and Johnson.

With the initiation of the Idaho Natural Heritage Program in 1984, the state gained its first full-time program dedicated to collecting, storing, analyzing, and distributing information on the status and distribution of rare, threatened, and endangered species in Idaho. Since its inception, much new information on Idaho's rare fauna has become available, primarily as a result of extensive field studies by federal and state agencies, academic institutions, and other interested parties. With this new information in hand, the U.S. Fish and Wildlife Service published a new list of candidate species in 1989, the Department of Fish and Game re-defined and published a new list of Species of Special Concern in 1989, and the U.S. Forest Service (Region 4) published their first Sensitive Species list for animals in 1990.

No comprehensive list of rare animal species has ever been compiled in Idaho. The rare animal classifications by the various state and federal agencies represent a confusing maze of designations to those unacquainted or unaccustomed to working with such bureaucracies. The purpose of this section is to clarify the meaning of the different designations and to provide the user with up-to-date lists for each of the classifications. This section also served as the foundation for the first interagency Idaho rare animal meeting held in February 1990. The purpose of this meeting was to prioritize agency and academic work on rare animals and to resolve discrepancies among various agencies' rare animal classifications.

In compiling these lists, there were numerous inconsistencies in taxonomy from one list to another. For clarity and consistency, the following references were used for common and scientific names in this compilation:

Robins, C. R., R. M. Bailey, C. E. Bond, J. R. Brooker, E. A. Lachner, R. N. Lea, and W. B. Scott. 1980. A list of common and scientific names of fishes from the United States and Canada. 4th Edition. American Fisheries Society Special Publication No. 12. 174 pp.

Collins, J. T., R. Conant, J. E. Hoheey, J. L. Knight, E. M. Rondquist, and H. M. Smith. 1982. Standard common and current scientific names for North American amphibians and reptiles. 2nd Edition. Society for the Study of Amphibians and Reptiles, Herpetological Circular No. 12. 218 pp.

American Ornithologist's Union. 1983. Check-list of North American birds. 6th Edition. Allen Press Inc. Lawrence KS. 877 pp.

Jones, J. K., D. C. Carter, H. H. Genoways, R. S. Hoffmann, D. W. Rice, and C. Jones. 1986. Revised checklist of North American mammals north of Mexico, 1986. Occasional Papers The Museum Texas Tech University No. 107.

In a few instances, recent taxonomic changes not incorporated in these references have been included in the animal section (e.g., Salmo to Oncorhynchus for rainbow and cutthroat trout species). In addition, we have avoided using the subspecies designations for most of the list except where there is some taxonomic confusion (e.g., Coeur d'Alene salamander = Plethodon vandykei idahoensis), a subspecies has been designated by the U.S. Fish and Wildlife Service as a candidate, threatened, or endangered species (e.g., woodland caribou = Rangifer tarandus caribou), or where subspecies are widely accepted by the scientific community such as with cutthroat trout.

Abbreviations used in the summary animal table are as follows (see introduction for abbreviations used under Heritage Rank and Federal Status columns):

SSC = Species of Special Concern

T/E = Threatened/Endangered

S = Sensitive

SPECIAL ANIMALS (cont.)

AGENCY: Idaho Department of Fish and Game (IDFG)

CLASSIFICATION: Species of Special Concern - Amphibians, Reptiles, Birds, Mammals

DEFINITION: Native species which are either low in numbers, limited in distribution, or have suffered significant habitat losses. The list includes three categories of species:

A) species which meet one or more of the criteria above and for which Idaho presently contains or formerly constituted a significant portion of their range (i.e., priority species),

B) species which meet one or more of the criteria above but whose populations in Idaho are on the edge of a breeding range that falls largely outside the state (i.e., peripheral species), and

C) species that may be rare in the state but for which there is little information on their population status, distribution, and/or habitat requirements (i.e., undetermined status species).

Source: Idaho Department of Fish and Game Nongame Plan 1986-1990 as amended (12/89).

CATEGORY A - PRIORITY SPECIES

Coeur d'Alene Salamander (Plethodon vandykei idahoensis)
Common Loon (Gavia immer)
American White Pelican (Pelecanus erythrorhynchos)
Trumpeter Swan (Cygnus buccinator)
Harlequin Duck (Histrionicus histrionicus)
Ferruginous Hawk (Buteo regalis)
Mountain Quail (Oreortyx pictus)
Upland Sandpiper (Bartramia longicauda)
Boreal Owl (Aegolius funereus)
Idaho Ground Squirrel (Spermophilus brunneus)
Fisher (Martes pennanti)
Wolverine (Gulo gulo)

CATEGORY B - PERIPHERAL SPECIES

Wood Frog (Rana sylvatica)
Mojave Black-collared Lizard (Crotaphytus bicinctores)
Longnose Snake (Rhinocheilus lecontei)
Western Ground Snake (Sonora semiannulata)
Great Egret (Casmerodius albus)
Merlin (Falco columbarius)
Yellow-billed Cuckoo (Coccyzus americanus)
Coast Mole (Scapanus orarius)
Cliff Chipmunk (Tamias dorsalis)
Uinta Chipmunk (Tamias umbrinus)
Rock Squirrel (Spermophilus variegatus)
Dark Kangaroo Mouse (Microdipodops megacephalus)
Little Pocket Mouse (Perognathus longimembris)
Northern Bog Lemming (Synaptomys borealis)
Kit Fox (Vulpes macrotis)
Lynx (Felis lynx)

SPECIAL ANIMALS (cont.)

CATEGORY C - UNDETERMINED STATUS SPECIES

Western Pond Turtle (Clemmys marmorata)
Northern Alligator Lizard (Elgaria coerulea)
Ringneck Snake (Diadophis punctatus)
Smooth Green Snake (Opheodrys vernalis)
Black-billed Cuckoo (Coccyzus erythrophthalmus)
Flammulated Owl (Otus flammeolus)
Great Gray Owl (Strix nebulosa)
Barred Owl (Strix varia)
Northern Pygmy-Owl (Glaucidium gnoma)
Three-toed Woodpecker (Picoides tridactylus)
White-headed Woodpecker (Picoides albolarvatus)
Pygmy Nuthatch (Sitta pygmaea)
Preble's Shrew (Sorex preblei)
Pygmy Shrew (Sorex hoyi)
Spotted Bat (Euderma maculatum)
Townsend's Big-eared Bat (Plecotus townsendii)
Fringed Myotis (Myotis thysanodes)
California Myotis (Myotis californicus)
Western Pipistrelle (Pipistrellus hesperus)
Northern Flying Squirrel (Glaucomys sabrinus)

AGENCY: Idaho Department of Fish and Game (IDFG)

CLASSIFICATION: Species of Special Concern - Fish

DEFINITION: Species whose restricted ranges, specific habitat requirements, and/or low population numbers makes them vulnerable to elimination or reductions from areas of the state if adverse impacts on habitat or populations occur.

Source: Idaho Department of Fish and Game Fisheries Management Plan 1986-1990.

LIST

White Sturgeon (Acipenser transmontanus)
Chinook Salmon - "Spring" (Oncorhynchus tshawytscha)
Steelhead Trout (Oncorhynchus mykiss)
Redband Trout (Oncorhynchus mykiss ssp.)
Arctic Char (Salvelinus alpinus)
Bull Trout (Salvelinus confluentus)
Westslope Cutthroat Trout (Oncorhynchus clarki lewisi)
Bonneville Cutthroat Trout (Oncorhynchus clarki Utah)
Yellowstone Cutthroat Trout (Oncorhynchus clarki bouvieri)
Bear Lake Cutthroat Trout (Oncorhynchus clarki ssp.)
Snake River Fine-spotted Cutthroat Trout (Oncorhynchus clarki ssp.)
Bear Lake Whitefish (Prosopium abyssicola)
Bonneville Cisco (Prosopium gemmiferum)
Bonneville Whitefish (Prosopium spilonotus)
Leatherside Chub (Gila copei)
Sand Roller (Percopsis transmontana)
Burbot (Lota lota)
Bear Lake Sculpin (Cottus extensus)
Shoshone Sculpin (Cottus greenei)
Wood River Sculpin (Cottus leiopomus)

SPECIAL ANIMALS (cont.)

AGENCY: Idaho Department of Fish and Game (IDFG)

CLASSIFICATION: Threatened and Endangered Wildlife, Protected Nongame Wildlife

DEFINITION: No person shall take or possess those species of wildlife classified as Protected Nongame Species or Threatened or Endangered Wildlife at any time or in any manner, except as provided in Sections 36-106(e)5 and 36-1107, Idaho Code.

THREATENED AND ENDANGERED WILDLIFE

Whooping Crane (Grus americana)
Peregrine Falcon (Falco peregrinus)
Bald Eagle (Haliaeetus leucocephalus)
Gray Wolf (Canis lupus)
Grizzly Bear (Ursus arctos)
Caribou (Rangifer tarandus)

Chinook Salmon - "Summer" & "Fall" (Oncorhynchus tshawytscha)*
Sockeye Salmon (Oncorhynchus nerka)*

PROTECTED NONGAME WILDLIFE

Leatherside Chub (Gila copei)
Sand Roller (Percopsis transmontana)
Bear Lake Sculpin (Cottus extensus)
Shoshone Sculpin (Cottus greenei)
Wood River Sculpin (Cottus leiopomus)

All birds except:

Feral Pigeon (Columba livia)
American Crow (Corvus brachyrhynchos)
European Starling (Sturnus vulgaris)
House Sparrow (Passer domesticus)

Pika (Ochotona princeps)
Least Chipmunk (Tamias minimus)
Yellow-pine Chipmunk (Tamias amoenus)
Cliff Chipmunk (Tamias dorsalis)
Red-tailed Chipmunk (Tamias ruficaudus)
Uinta Chipmunk (Tamias umbrinus)
Golden-mantled Ground Squirrel (Spermophilus lateralis)
Red Squirrel (Tamiasciurus hudsonicus)
Northern Flying Squirrel (Glaucomys sabrinus)
Wolverine (Gulo gulo)
Kit Fox (Vulpes macrotis)
Bison (Bison bison)

* The Fisheries Bureau defines and classifies Threatened and Endangered Species in the 1986-1990 Plan as follows:

Threatened Species: Any species which is likely to become an endangered species within the foreseeable future in all or a significant portion of its range within Idaho.

Endangered Species: Any species which is in danger of extinction throughout all or a significant portion of its range within Idaho.

In contrast with the six bird and mammal species listed above as Threatened and Endangered Wildlife under Idaho Code, the two fish species listed as threatened or endangered have no statutory protection under Idaho Code. Their classification as threatened or endangered is a policy statement for management, not legal, purposes.

SPECIAL ANIMALS (cont.)

AGENCY: U. S. D. I. Bureau of Land Management (BLM)

CLASSIFICATION: Sensitive Species

DEFINITION: Sensitive species are those designated by the state director, usually in cooperation with the state agencies responsible for managing the species as sensitive. They are those species that are 1) under status review by USFWS/NMFS; or 2) whose numbers are declining so rapidly that federal listing may become necessary; or 3) with typically small and widely dispersed populations; or 4) those inhabiting ecological refugia or other specialized or unique habitats.

Source: BLM Manual 6840 9/16/88

SENSITIVE SPECIES

White Sturgeon (Acipenser transmontanus)
Sockeye Salmon (Oncorhynchus nerka)
Chinook Salmon (Oncorhynchus tshawytscha)
Bonneville Cutthroat Trout (Oncorhynchus clarki utah)
Westslope Cutthroat Trout (Oncorhynchus clarki lewisi)
Bear Lake Cutthroat Trout (Oncorhynchus clarki ssp.)
Steelhead Trout (Oncorhynchus mykiss)
Redband Trout (Oncorhynchus mykiss ssp.)
Shoshone Sculpin (Cottus greenei)

Coeur d'Alene Salamander (Plethodon vandykei idahoensis)
Roughskin Newt (Taricha granulosa)
Wood Frog (Rana sylvatica)
Ringneck Snake (Diadophis punctatus)
Night Snake (Hypsiglena torquata)
Longnose Snake (Rhinocheilus lecontei)
Western Ground Snake (Sonora semiannulata)

White-faced Ibis (Plegadis chihi)
Trumpeter Swan (Cygnus buccinator)
Swainson's Hawk (Buteo swainsoni)
Ferruginous Hawk (Buteo regalis)
Merlin (Falco columbarius)
Gyr Falcon (Falco rusticolus)
Sharp-tailed Grouse (Tympanuchus phasianellus)
Northern Bobwhite (Colinus virginianus)
Gambel's Quail (Callipepla gambelii)
Mountain Quail (Oreortyx pictus)
Long-billed Curlew (Numenius americanus)
Burrowing Owl (Athene cunicularia)
Boreal Owl (Aegolius funereus)

Preble's Shrew (Sorex preblei)
Pygmy Shrew (Sorex hoyi)
Spotted Bat (Euderma maculatum)
Idaho Ground Squirrel (Spermophilus brunneus)
Kit Fox (Vulpes macrotis)

Fisher (Martes pennanti)
Wolverine (Gulo gulo)
River Otter (Lutra canadensis)
California Bighorn Sheep (Ovis canadensis californiana)*

* This designation applies only to those bighorn sheep found south of the Snake River in Idaho and does not refer to bighorn or mountain sheep found elsewhere in Idaho.

SPECIAL ANIMALS (cont.)

AGENCY: U. S. D. I. Fish and Wildlife Service

CLASSIFICATION: Threatened and Endangered Species, Candidates for Threatened and Endangered Species Status

DEFINITION: See Introduction for definitions and explanation of symbols.

	<u>Status</u>
THREATENED (LT) AND ENDANGERED (LE) SPECIES:	
Bald Eagle (<u>Haliaeetus leucocephalus</u>)	LE
Peregrine Falcon (<u>Falco peregrinus</u>)	LE
Whooping Crane (<u>Grus americana</u>)	LE
Gray Wolf (<u>Canis lupus</u>)	LE
Grizzly Bear (<u>Ursus arctos</u>)	LT
Woodland Caribou (<u>Rangifer tarandus caribou</u>)	LE
CANDIDATE SPECIES:	
Bonneville Cutthroat Trout (<u>Oncorhynchus clarki utah</u>)	C2
Snake River Fine-spotted Cutthroat Trout (<u>Oncorhynchus clarki</u> ssp.)	C2
Redband Trout (<u>Oncorhynchus mykiss</u> ssp.)	C2
Leatherside Chub (<u>Gila copei</u>)	C2
Shoshone Sculpin (<u>Cottus greenei</u>)	3c
Wood River Sculpin (<u>Cottus leiopomus</u>)	C2
Coeur d'Alene Salamander (<u>Plethodon vandykei idahoensis</u>)	3c
White-faced Ibis (<u>Plegadis chihi</u>)	C2
Ferruginous Hawk (<u>Buteo regalis</u>)	C2
Swainson's Hawk (<u>Buteo swainsoni</u>)	3c
Columbian Sharp-tailed Grouse (<u>Tympanuchus phasianellus columbianus</u>)	C2
Long-billed Curlew (<u>Numenius americanus</u>)	C2
Western Yellow-billed Cuckoo (<u>Coccyzus americanus occidentalis</u>)	3b
Preble's Shrew (<u>Sorex preblei</u>)	C2
Spotted Bat (<u>Euderma maculatum</u>)	C2
Townsend's Big-eared Bat (<u>Plecotus townsendii</u>)	C2
Northern Idaho Ground Squirrel (<u>Spermophilus brunneus</u> ssp.)	C1
Southern Idaho Ground Squirrel (<u>Spermophilus brunneus</u> ssp.)	C2
Wolverine (<u>Gulo gulo</u>)	C2
Lynx (<u>Felis lynx</u>)	C2
Invertebrates:	
Idaho Pointheaded Grasshopper (<u>Acrolophitus pulchellus</u>)	C2
Idaho Dunes Tiger Beetle (<u>Cicindela arenicola</u>)	C2
Columbia River Tiger Beetle (<u>Cicindela columbica</u>)	3c
Blind Cave Leiodid Beetle (<u>Glacivicolia bathysciodes</u>)	C2
Snail, No Common Name (<u>Valvata utahensis</u>)	C2
Columbia Pebblesnail (<u>Fluminicola columbianus</u>)	C2
Idaho Springsnail (<u>Pyrgulopsis idahoensis</u>)	C2
Bliss Rapids Snail (undescribed species)	C1
Shortface Lanx (<u>Fisherola nuttalli</u>)	C2
Snake River Physa Snail (<u>Physa natricina</u>)	C1
Marbled Disc (<u>Discus marmorensis</u>)	C2
Mission Creek Oregonian (<u>Cryptomastix magnidentata</u>)	C2
Idaho Banded Mountainsnail (<u>Oreohelix idahoensis</u>)	C2
Boulder Pile Mountainsnail (<u>Oreohelix jugalis</u>)	C2
Carinated Striate Banded Mountainsnail (<u>Oreohelix strigosa goniogyra</u>)	C2
Whorled Mountainsnail (<u>Oreohelix vortex</u>)	C2
Lava Rock Mountainsnail (<u>Oreohelix waltoni</u>)	C2

SPECIAL ANIMALS (cont.)

AGENCY: U. S. D. A. Forest Service (USFS)

CLASSIFICATION: Sensitive Species

DEFINITION: Those animal species identified by the Regional Forester for which population viability is a concern as evidenced by significant current or predicted downward trends in population numbers or density or significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution.

Source: Forest Service Manual 2670 7/84

SENSITIVE SPECIES - REGION 1 NATIONAL FORESTS IN IDAHO:

White Sturgeon (Acipenser transmontanus)
Chinook Salmon - "Spring" and "Summer" (Oncorhynchus tshawytscha)
Steelhead Trout (Oncorhynchus mykiss)
Westslope Cutthroat Trout (Oncorhynchus clarki lewisi)
Bull Trout (Salvelinus confluentus)
Burbot (Lota lota)

Coeur d'Alene Salamander (Plethodon vandykei idahoensis)

Common Loon (Gavia immer)
Harlequin Duck (Histrionicus histrionicus)
Boreal Owl (Aegolius funereus)

Townsend's Big-eared Bat (Plecotus townsendii)
Wolverine (Gulo gulo)

SENSITIVE SPECIES REGION 4 NATIONAL FORESTS IN IDAHO (Draft, unofficial list):

Sockeye Salmon (Oncorhynchus nerka)
Chinook Salmon (Oncorhynchus tshawytscha)
Steelhead Trout (Oncorhynchus mykiss)
Bonneville Cutthroat Trout (Oncorhynchus clarki utah)
Westslope Cutthroat Trout (Oncorhynchus clarki lewisi)
Snake River Fine-spotted Cutthroat Trout (Oncorhynchus clarki ssp.)
Redband Trout (Oncorhynchus mykiss ssp.)
Bull Trout (Salvelinus confluentus)
Leatherside Chub (Gilia copei)
Wood River Sculpin (Cottus leiopomus)

Common Loon (Gavia immer)
Trumpeter Swan (Cygnus buccinator)
Harlequin Duck (Histrionicus histrionicus)
Columbian Sharp-tailed Grouse (Tympanuchus phasianellus)
Mountain Quail (Oreortyx pictus)
Ferruginous Hawk (Buteo regalis)
Flammulated Owl (Otus flammeolus)
Boreal Owl (Aegolius funereus)
Three-toed Woodpecker (Picoides tridactylus)
Willow Flycatcher (Empidonax traillii)

Spotted Bat (Euderma maculatum)
Townsend's Big-eared Bat (Plecotus townsendii)
Preble's Shrew (Sorex preblei)
Idaho Ground Squirrel (Spermophilus brunneus)
Fisher (Martes pennanti)
Wolverine (Gulo gulo)
Lynx (Felis lynx)

SPECIAL ANIMALS (cont.)

Summary Table for Agency Animal Classifications

Taxon	Heritage Rank	State Status	Federal Status	FS R1	FS R4	BLM
FISH						
White Sturgeon (<i>Acipenser transmontanus</i>)	G4/S1	SSC		S	W	S
Sockeye Salmon (<i>Oncorhynchus nerka</i>)	G5/S1	T/E			S	S
Chinook Salmon (<i>Oncorhynchus tshawytscha</i>)	G5/S3	SSC & T/E		S	S	S
Steelhead Trout (<i>Oncorhynchus mykiss</i>)	G5/S4	SSC		S	S	S
Redband Trout (<i>Oncorhynchus mykiss</i> ssp.)	G3Q/S2	SSC	C2		S	S
Arctic Char (<i>Salvelinus alpinus</i>)	G5/SE	SSC				
Bull Trout (<i>Salvelinus confluentus</i>)	G4/S2	SSC	C2	S	S	
Westslope Cutthroat Trout (<i>Oncorhynchus clarki lewisi</i>)	G5T3/S2	SSC		S	S	S
Bonneville Cutthroat Trout (<i>Oncorhynchus clarki utah</i>)	G5T2/S1	SSC	C2		S	S
Yellowstone Cutthroat Trout (<i>Oncorhynchus clarki bouvieri</i>)	G5T3/S2	SSC				
Bear Lake Cutthroat Trout (<i>Oncorhynchus clarki</i> ssp.)	G5T1/S1	SSC				S
Fine-spotted Cutthroat Trout (<i>Oncorhynchus clarki</i> ssp.)	G5T1/S1	SSC	C2		S	
Bear Lake Whitefish (<i>Prosopium abyssi</i>)	G1/S1	SSC				
Bonneville Cisco (<i>Prosopium gemmiferum</i>)	G1/S1	SSC				
Bonneville Whitefish (<i>Prosopium spilonotus</i>)	G1/S1	SSC				
Leatherside Chub (<i>Gila copei</i>)	G4/S1?	SSC	C2		S	S
Sand Roller (<i>Percopsis transmontana</i>)	G4/S1?	SSC				
Burbot (<i>Lota lota</i>)	G5/S2	SSC		S		

SPECIAL ANIMALS (cont.)

Taxon	Heritage Rank	State Status	Federal Status	FS R1	FS R4	BLM
Bear Lake Sculpin (<u>Cottus extensus</u>)	G1/S1	SSC				
Shoshone Sculpin (<u>Cottus greenei</u>)	G2/S2	SSC	3c			S
Wood River Sculpin (<u>Cottus leiopomus</u>)	G2/S2	SSC	C2		S	S
AMPHIBIANS						
Coeur d'Alene Salamander (<u>Plethodon vandykei idahoensis</u>)	G3/S3	SSC	3c	S		S
Wood Frog (<u>Rana sylvatica</u>)	G5/SH	SSC				S
Roughskin Newt (<u>Taricha granulosa</u>)	G5/SE					S
REPTILES						
Western Pond Turtle (<u>Clemmys marmorata</u>)	G5/S1?	SSC				
Northern Alligator Lizard (<u>Elgaria coerulea</u>)	G5/S2	SSC				
Mojave Black-Collared Lizard (<u>Crotaphytus bicinctores</u>)	G5/S3	SSC				
Longnose Snake (<u>Rhinocheilus lecontei</u>)	G5/S3	SSC				S
Western Ground Snake (<u>Sonora semiannulata</u>)	G5/S3	SSC				S
Ringneck Snake (<u>Diadophis punctatus</u>)	G5/S1?	SSC				S
Night Snake (<u>Hypsiglena torquata</u>)	G5/S3					S
Smooth Green Snake (<u>Opheodrys vernalis</u>)	G5/SH?	SSC				

SPECIAL ANIMALS (cont.)

Taxon	Heritage Rank	State Status	Federal Status	FS R1	FS R4	BLM
BIRDS						
Common Loon (<u>Gavia immer</u>)	G5/S1	SSC		S	S	
American White Pelican (<u>Pelecanus erythrorhynchos</u>)	G3/S1	SSC				
Great Egret (<u>Casmerodius albus</u>)	G5/S1	SSC				
White-faced Ibis (<u>Plegadis chihi</u>)	G5/S2		C2			S
Trumpeter Swan (<u>Cygnus buccinator</u>)	G4/S1	SSC			S	S
Harlequin Duck (<u>Histrionicus histrionicus</u>)	G5/S1	SSC		S	S	
Bald Eagle (<u>Haliaeetus leucocephalus</u>)	G3S3	T/E	LE			
Swainson's Hawk (<u>Buteo swainsoni</u>)	G4/S4		3c			S
Ferruginous Hawk (<u>Buteo regalis</u>)	G4/S3	SSC	C2		S	S
Merlin (<u>Falco columbarius</u>)	G4/S1	SSC				S
Peregrine Falcon (<u>Falco peregrinus</u>)	G3/S1	T/E	LE			
Gyr Falcon (<u>Falco rusticolus</u>)	G5/SA					S
Sharp-tailed Grouse (<u>Tympanuchus phasianellus</u>)	G5/S2		C2		S	S
Mountain Quail (<u>Oreortyx pictus</u>)	G5/SE?	SSC			S	S
Northern Bobwhite (<u>Colinus virginianus</u>)	G5/SE					S
Gambel's Quail (<u>Callipepla gambelii</u>)	G5/SE					S
Whooping Crane (<u>Grus americana</u>)	G5/SE	T/E	LE			
Upland Sandpiper (<u>Bartramia longicauda</u>)	G5/S1	SSC				
Long-billed Curlew (<u>Numenius americanus</u>)	G5/S3		C2			S

SPECIAL ANIMALS (cont.)

Taxon	Heritage Rank	State Status	Federal Status	FS R1	FS R4	BLM
Black-billed Cuckoo (<u>Coccyzus erythrophthalmus</u>)	G5/S1	SSC				
Yellow-billed Cuckoo (<u>Coccyzus americanus</u>)	G5/S1	SSC	3b			
Northern Pygmy-Owl (<u>Glaucidium gnoma</u>)	G5/S3?	SSC				
Flammulated Owl (<u>Otus flammeolus</u>)	G4/S3?	SSC			S	
Burrowing Owl (<u>Athene cunicularia</u>)	G5/S4					S
Barred Owl (<u>Strix varia</u>)	G5/S3?	SSC				
Great Gray Owl (<u>Strix nebulosa</u>)	G5/S2	SSC				
Boreal Owl (<u>Aegolius funereus</u>)	G5/S2	SSC		S	S	S
White-headed Woodpecker (<u>Picoides albolarvatus</u>)	G5/S1?	SSC				
Three-toed Woodpecker (<u>Picoides tridactylus</u>)	G5/S3?	SSC			S	
Pygmy Nuthatch (<u>Sitta pygmaea</u>)	G5/S3?	SSC				
MAMMALS						
Preble's Shrew (<u>Sorex preblei</u>)	G4/S1	SSC	C2		S	S
Pygmy Shrew (<u>Sorex hoyi</u>)	G5/S1	SSC			W	S
Coast Mole (<u>Scapanus orarius</u>)	G5/S1	SSC				
Fringed Myotis (<u>Myotis thysanodes</u>)	G5/S1?	SSC			W	
California Myotis (<u>Myotis californicus</u>)	G5/S1?	SSC				
Spotted Bat (<u>Euderma maculatum</u>)	G4/SH	SSC	C2		S	S
Townsend's Big-eared Bat (<u>Plecotus townsendii</u>)	G4/S2	SSC	C2	S	S	

SPECIAL ANIMALS (cont.)

Taxon	Heritage Rank	State Status	Federal Status	FS R1	FS R4	BLM
Western Pipistrelle (<u>Pipistrellus hesperus</u>)	G5/S1?	SSC				
Cliff Chipmunk (<u>Tamias dorsalis</u>)	G7/S1	SSC				
Uinta Chipmunk (<u>Tamias umbrinus</u>)	G5/S1?	SSC				
Idaho Ground Squirrel (<u>Spermophilus brunneus</u>)	G2/S2	SSC	C1/C2		S	S
Rock Squirrel (<u>Spermophilus variegatus</u>)	G5/S1	SSC				
Northern Flying Squirrel (<u>Glaucomys sabrinus</u>)	G5/S3?	SSC				
Dark Kangaroo Mouse (<u>Microdipodops megacephalus</u>)	G5/S1	SSC				
Little Pocket Mouse (<u>Perognathus longimembris</u>)	G5/S1?	SSC				
Northern Bog Lemming (<u>Synaptomys borealis</u>)	G5/S1	SSC				
Gray Wolf (<u>Canis lupus</u>)	G4/S1	T/E	LE			
Kit Fox (<u>Vulpes macrotis</u>)	G5/SH	SSC				S
Grizzly Bear (<u>Ursus arctos</u>)	G4/S1	T/E	LT			
Fisher (<u>Martes pennanti</u>)	G5/S1	SSC			S	S
Wolverine (<u>Gulo gulo</u>)	G4/S2	SSC	C2	S	S	S
River Otter (<u>Lutra canadensis</u>)	G5/S4					S
Lynx (<u>Felis lynx</u>)	G5/SU	SSC	C2		S	
Woodland Caribou (<u>Rangifer tarandus caribou</u>)	G5/S1	T/E	LE			
California Bighorn Sheep (<u>Ovis canadensis californiana</u>)	G4/S3					S

ACKNOWLEDGEMENTS

We are deeply grateful to the following agencies who provided financial support for the preparation and publication of this booklet: Idaho Department of Fish and Game, Idaho Department of Parks and Recreation, Regions 1 and 4 of the U.S. Forest Service, and U.S. Fish and Wildlife Service.

PLANTS:

We are indebted to many people who volunteered their time and knowledge. Foremost among them are members of the Rare and Endangered Plants Technical Committee of the Idaho Natural Areas Council whose pioneering efforts formed the basis for the list presented here. Thanks also to all participants of the Idaho Rare Plant Conferences, held annually since 1984, whose input has been instrumental in shaping our current knowledge of Idaho's rare flora. Special thanks go to the following individuals who made specific comments on earlier drafts of this booklet: Fred Johnson (University of Idaho), Dr. Duane Atwood (USFS), Dr. Roger Rosentreter (BLM), Dr. Angie Evenden (USFS), Dr. Robert Parenti (USFWS), Dr. Douglass Henderson (University of Idaho), Steve Brunsfeld (University of Idaho), Dr. Joe Elliott (Conservation Biology Research), Sherry Pitman (Smithsonian Institution), and Dr. Bruce McCune (Oregon State University). A final thanks to Steve Caicco, formally Botanist/Ecologist with the Idaho Natural Heritage Program, for the considerable effort he put toward compiling the initial, computerized rare plant data base for Idaho.

ANIMALS:

Many individuals contributed to the animal lists contained in this booklet. Bill Ruediger and Mike Hillis of Region 1, U.S. Forest Service, and an interagency committee were primarily responsible for implementing their Sensitive Species program. Similarly, Mike Rath and an interagency committee have been responsible for initiating the animal Sensitive Species program in Region 4, U.S. Forest Service. The Department of Fish and Game's Species of Special Concern definition and list was revised in 1989. We'd specifically like to thank Jeff Marks, Dr. Eric Yensen, Dr. Richard Wallace, Dr. Don Johnson, Dr. Barry Keller, Dr. Charles Peterson, and Dr. Charles Trost for their input and patience with this process. For review of the animal portions of this booklet, we are indebted to Alan Thomas (BLM), Jay Gore (USFWS), Bill Ruediger (USFS), Mike Rath (USFS), Bill Horton (IDFG), and Dr. Wayne Melquist (IDFG).