



United States
Department of
Agriculture

Forest Service

Rocky Mountain
Research Station

**General Technical
Report RMRS-GTR-45**

March 2000



Representativeness Assessment of Research Natural Areas on National Forest System Lands in Idaho

Steven K. Rust



Abstract

Rust, Steven K. 2000. **Representativeness assessment of research natural areas on National Forest System lands in Idaho.** Gen. Tech. Rep. RMRS-GTR-45. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 129 p.

A representativeness assessment of National Forest System (NFS) Research Natural Areas in Idaho summarizes information on the status of the natural area network and priorities for identification of new Research Natural Areas. Natural distribution and abundance of plant associations is compared to the representation of plant associations within natural areas. Natural distribution and abundance is estimated using modeled potential natural vegetation, published classification and inventory data, and Heritage plant community element occurrence data. Minimum criteria are applied to select only viable, high quality plant association occurrences. In assigning natural area selection priorities, decision rules are applied to encompass consideration of the adequacy and viability of representation. Selected for analysis were 1,024 plant association occurrences within 214 natural areas (including 115 NFS Research Natural Areas). Of the 1,566 combinations of association within ecological sections, 28 percent require additional data for further analysis; 8, 40, and 12 percent, respectively, are ranked from high to low conservation priority; 13 percent are fully represented. Patterns in natural area needs vary between ecological section. The result provides an operational prioritization of Research Natural Area needs at landscape and subregional scales. Objective ranking criteria provide clear accounting of priority assignments that are easily updated to reflect changing information or conditions.

Keywords: ecological reference area, biological diversity, conservation planning, plant community ecology

The Author

Steven K. Rust is Ecologist for the Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. He holds bachelors degrees in environmental studies and botany from The Evergreen State College and University of Washington. He received an M.S. degree from the College of Forest Resources, University of Washington, in ecosystems analysis. Prior to joining the Conservation Data Center in 1994, he worked as a Botanist and Plant Ecologist for the National Park Service, Bureau of Land Management, and USDA Forest Service.

You may order additional copies of this publication by sending your mailing information in label form through one of the following media. Please send the publication title and number.

Telephone (970) 498-1392

E-mail rschneider@fs.fed.us

FAX (970) 498-1396

Mailing Address Publications Distribution
Rocky Mountain Research Station
240 West Prospect Road
Fort Collins, CO 80526-2098

Cover photo: View west of meadow vegetation within Smiley Mountain RNA, located in the Pioneer Mountains of east-central Idaho. Photo by Cate Brigden, September 3, 1995.

Representativeness Assessment of Research Natural Areas on National Forest System Lands in Idaho

Steven K. Rust

Contents

Introduction	1
Methods	2
Study Area	2
Synecological Perspective and Nomenclature	3
Estimation of Natural Distribution and Abundance	5
Selection of Representative Element Occurrences	6
Assignment of Priorities for Filling Gaps in the Natural Area Network	7
Results and Discussion	8
Northwest Basin and Range Section	8
Yellowstone Highlands Section	8
Overthrust Mountains Section	9
Idaho Batholith Section	9
Beaverhead Mountains Section	9
Challis Volcanics Section	10
Blue Mountains Section	10
Okanagon Highlands Section	11
Flathead Valley Section	11
Bitterroot Mountains Section	11
Conclusions	11
References	12
Table 1. Plant associations and community types known or expected to occur in Idaho listed by National Vegetation Classification subclass	18
Table 2. Assessment summary by ecological section listed by National Vegetation Classification Subclass	30
Appendix A. Research Natural Areas on National Forest System lands in Idaho	73
Appendix B. Research Natural Areas on National Forest System lands in Idaho listed by lead Forest and Ranger District with proposed and established Research Natural Areas	76
Appendix C. Natural areas considered in the representativeness assessment listed alphabetically by the State in which they occur	78
Appendix D. Plant community elements that occur in Research Natural Areas on National Forest System lands in Idaho listed alphabetically with the total area of occurrence and by Research Natural Area, with the total area of occurrence	80
occurrences, which meet minimum criteria, listed for each plant association or community type with the size of the occurrence	105

Acknowledgments

Support for this study was provided by USDA Forest Service, Northern Region, Intermountain Region, and Rocky Mountain Research Station (formerly Intermountain Research Station) through a cooperative agreement between the R1/R4/INT Natural Areas Program and Idaho Department of Fish and Game.

Thanks to Bob Moseley, Michael Mancuso, Mabel Jankovsky-Jones, Pat Green, and Art Zack for help in compiling information that contributed to the study or for reviewing early drafts. Linda Williams, Julie Kaltenecker, Pam Peterson, Andrew Pitner, Juanita Lichthardt, and George Stephens helped maintain data base records on natural areas in Idaho. Thanks to Marion Reid and Rex Crawford for assistance with tables presented in Reid and others 1995. Bob Keane and Jim Menakis provided assistance with spatial data used in the study. Margaret Beer, Joel Peterson, Mary Neighbours, Jack McMillen, and Kathy Ahlenslager helped with information on natural areas in adjacent States. Terry Vernholm completed final edits on the document. Many thanks to Alma Winward and Angela Evenden for their continuing support of natural areas. I recognize and thank Chuck Wellner for his leadership in natural area identification and conservation. Chuck's long and dedicated service to natural areas in Idaho is a legacy of natural heritage conservation in the Northwest. I thank Melinda Moeur and Dennis Ferguson for their support in publishing this document.

Introduction

Biological diversity encompasses all levels of natural variation from molecules to species to landscapes. With the complexity of biological and physical components and variability on spacial and temporal scales, biological diversity is difficult to understand or characterize unless it is partitioned into components of repeated patterns (Huston 1994). This is a conceptual objective of the coarse-filter/fine-filter approach to conservation of biological diversity. The idea is that protected areas containing representative examples of all communities (or ecosystems) will protect viable populations of most species, most biotic interactions, and most ecological processes. For the remaining species, a fine filter is needed, for example, conservation plans reflecting the specific needs of individual species. The coarse filter is used to develop conservation strategies for all components of native ecosystems (Bourgeron and Engelking 1994; Grossman and others 1994; Hunter 1991; Noss and others 1995). Basic guidelines for the selection and establishment of Research Natural Areas conceptually embrace the coarse-filter approach to the conservation of biological diversity: Research Natural Areas are part of a national network of ecological areas selected to preserve a wide spectrum of pristine areas that represent important forest, shrubland, grassland, alpine, aquatic, geological, and similar natural situations that have special or unique characteristics. Research Natural Areas are designated in perpetuity for research, education, and the maintenance of biological diversity on National Forest System (NFS) lands (Forest Service Manual 4063).

The USDA Forest Service has played a historic role in the recognition and establishment of Research Natural Areas (Habeck 1979). The basic idea of the Forest Service policy—the designation of representative pristine sites to serve as reference areas for basic research and education, and to monitor the effects of intensive management activities—is historically expressed as well in the literature of professional forest and range management societies (Allen 1986; Anderson 1975; Buckman and Quintus 1972; Wellner 1986).

The need for Research Natural Areas has a fundamental basis in the National Forest Management Act that states that land and resource management plans will include a plan to monitor and evaluate the effects of implementing the management plan (Burns 1984; CFR 36 Sec. 219.11(d); Norse and others 1986). Natural areas contribute to the land management planning process by providing models of benchmark landscape features and habitat conditions (Andrews 1994; Ryan and others 1994).

The role of ecological reference areas is heightened within the ecosystem management paradigm: “management driven by explicit goals...and made adaptable by monitoring and research based on our best understanding of the ecological interactions and processes necessary to sustain

ecosystem composition, structure, and function” (Christensen and others 1996). Implementation of adaptive management strategies is a focal component of ecosystem management. In adaptive management, which involves a repetitive, ordered cycle of planning, implementation, monitoring, and evaluation, the hypothetical, iterative nature of resource management is recognized (Christensen and others 1996; Forest Ecosystem Management Assessment Team 1993). A principal tenet of ecosystem management is that biological diversity, productivity, and sustainability may be maintained or enhanced by managing lands within the historic range of variability (Swanson and others 1994). Research Natural Areas provide the experimental controls against which ecosystem management activities may be assessed, provide the baseline for understanding the range of natural variability, and help establish a basis for defining desired conditions (Andrews 1994; Franklin and others 1972; Moir 1972; Morgan and others 1994; Ryan and others 1994; Wellner 1986).

Research Natural Areas are established to preserve a wide spectrum of pristine, representative areas that typify important forest, woodland, shrubland, grassland, and alpine plant communities (Forest Service Manual 4063). The first assessment of, and formative biological direction for, attainment of this objective on NFS lands in Idaho was provided by Wellner and Johnson (1974) and subsequently refined by Daubenmire (1975) and Johnson and Pfister (1981, 1982). The systematic classification of the biological and physical components of Idaho’s natural heritage and the identification of potential conservation sites for the representation of these elements contributed to early regional land and resource management planning. The Regional Guide for the Intermountain Region (USDA Forest Service 1984) recognizes the Idaho Natural Areas Coordinating Committee as the authority for assessing natural area needs. The Northern Regional Guide (USDA Forest Service 1981) provides a natural area needs assessment and assigns establishment targets to individual Forests in the Region. Publication of regional plant community classifications (such as Hironaka and others 1983; Mueggler and Campbell 1982; Steele and others 1981, 1983) contributed to the most recent assessment of the representative quality of natural areas on NFS lands in Idaho (Wellner and Tisdale 1985). Chadde and others (1996) provided updated Northern Region Research Natural Area establishment targets.

The biological significance of conservation sites is often assessed through analysis of rarity, richness, representativeness, and viability (Grossman and others 1994). Representativeness refers to the idea that a dedicated conservation site or system of such sites should contain biota and biophysical characteristics that represent the range of natural variability found within the associated region. Representativeness requires the assessment of how well a site or group of sites exemplifies the variability of the biota and

environment of a larger area (Bourgeron and others 1995; Mackey and others 1988). The objective of this assessment is to understand how well the system of Research Natural Areas represents the ecological variation (as expressed through the distribution and abundance of plant communities) on NFS lands in Idaho, and to identify gaps in representation so that steps may be taken to identify and propose new Research Natural Areas to fill these gaps in the system.

Methods

Representativeness refers to the idea that a dedicated conservation site or system of such sites should contain biological and physical characteristics that represent the natural range of variability found within the associated region. Assessment of representativeness requires the comparison of how well a site or group of sites exemplifies the variability of the biological and physical components of a larger area (Bourgeron and others 1995; Mackey and others 1988). The specific focus in this study is the representation of plant communities. The intention is that communities, as a coarse filter of biological diversity, serve to represent the range of variability of the natural physical environment and the range of variability in the distribution and abundance of plant and animal species.

The representativeness of Research Natural Areas on NFS lands in Idaho is assessed through completion of the following steps: (1) develop a comprehensive list of plant communities that occur in Idaho, (2) summarize the distribution and relative abundance of plant communities by ecological region, and (3) identify representative plant community element occurrences (within Research Natural Areas and other similar natural areas) and summarize the relative abundance of these selected occurrences by ecological region. The output of the assessment is identification of priorities for conservation action that would enhance the representativeness of the natural area network.

Study Area

The focus of this study is the representativeness of Research Natural Areas on NFS lands in Idaho. In the spirit of the ecosystem management paradigm and as natural areas adjacent NFS lands compliment those on the NFS, an ecoregional approach is taken in the completion of this assessment. The study area encompasses the area of each of the ecoregional sections that intersect with Idaho and that contain NFS lands (fig. 1).

This area involves 10 ecoregional sections (McNab and Avers 1994) and overlaps with each of the six States adjacent to Idaho. The area encompasses considerable biological and physical diversity. Landforms within the study area range from the large glacial troughs and steeply

dissected mountainous terrain of the Okanogan Highlands and Bitterroot Mountains sections in the Northern Rocky Mountains to the broad, gently sloping alluvial fans and volcanic plateaus of the southern Northwest Basin and Range and Overthrust Mountains sections within the northern extent of the Great Basin. The study area is strongly influenced by an east-west precipitation gradient. In the north, the climate is strongly maritime-influence. Precipitation (30 to 80 inches) occurs primarily in winter months. The southern portion of the study area is characterized by a continental climatic regime. Precipitation (4 to 20 inches) is relatively evenly distributed throughout the fall, winter, and spring months.

There are 109 established and eight proposed Research Natural Areas on NFS lands in Idaho. The locations of these areas are shown in figure 2. The letter codes shown in figure 2 are listed in appendix A with the name and physical attributes of each area. Research Natural Areas are listed by Forest and Ranger District in appendix B. Appendix D lists the plant associations and community types located within each area.

Synecological Perspective and Nomenclature

Plant communities may be characterized as recurrent assemblages of species coexisting in similar landscape features (Bourgeron and Engelking 1994). A plant community classification may be likened to a language developed to meet the need of a set of commonly held objectives (Sawyer and Keeler-Wolf 1995). In representativeness assessment, the intention is to use plant community elements to represent groups of species and ecological interactions and processes, that is, the objective is to implement the coarse-filter approach to conservation. An important assumption of the coarse filter is that ecological units are relatively stable over time and predictable on the landscape. To adequately provide for the conservation of populations and habitats of plant and animal species, biotic interactions, and ecological processes, the coarse-filter strategy is best based on an ecological land classification system (Haufler 1994; Haufler and Irwin 1993; Hunter 1991). From the standpoint of vegetation, the coarse-filter strategy is best based on a classification of potential natural vegetation (Rust 1997).

Plant community classifications pertinent to the study area are predominantly based on potential natural vegetation. Classification work in the Rocky Mountains (Cooper and others 1991; Daubenmire and Daubenmire 1968; Mauk and Henderson 1984; Pfister and others 1977; Steele and others 1981, 1983) and the Intermountain Region (Daubenmire 1970; Hironaka and others 1983; Tisdale 1986) is strongly influenced by the work of Daubenmire (1952, 1968), Wellner (1989), and Alexander (1985, 1988). In this work the "habitat type" is recognized as the basic classi-

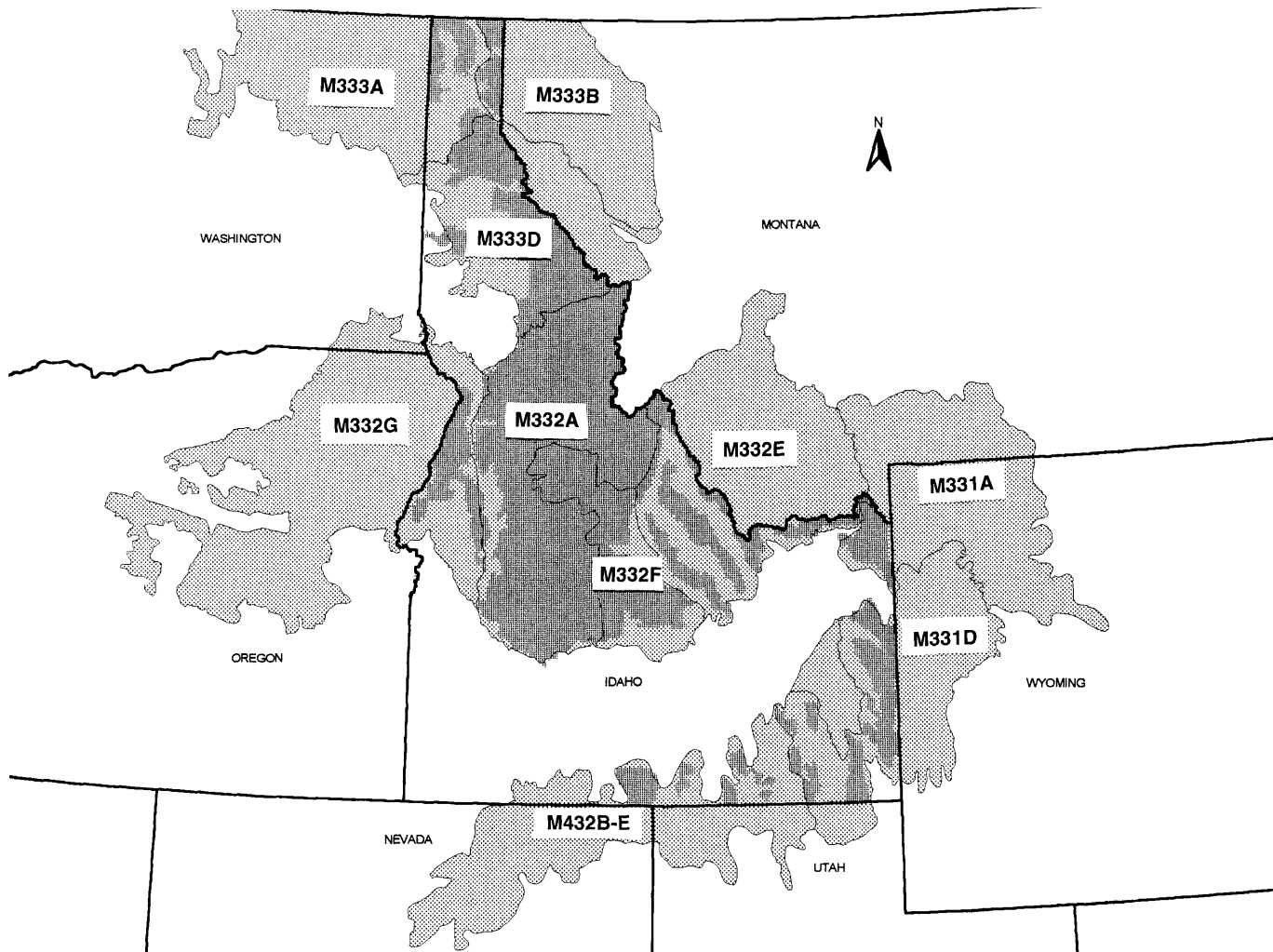


Figure 1—The representativeness assessment study area. The nine forested ecoregional sections that intersect with Idaho constitute the study area (indicated as light shading). The sections are: 342B-E, eastern portion of Northwest Basin and Range; M331A, Yellowstone Highlands; M331D, Overthrust Mountains; M332A, Idaho Batholith; M332E, Beaverhead Mountains; M332F, Challis Volcanics; M332G, Blue Mountains; M333A, Okanagon Highlands; M333B, Flathead Valley; and M333D, Bitterroot Mountains. National Forest System lands within Idaho are indicated by dark shading.

fication unit and is defined as all the land areas that support, or have the potential to support, the same climax vegetation. The habitat type is named for the climax vegetation or the plant association.

The concept of the habitat type as a land classification can be misleading because the classification unit, all areas of land which support a specific plant association, is actually derived through the analysis of floristic similarity (Hall 1988). In forested regions of Oregon and Washington the “plant association” is thought to be the most appropriate classification unit because it pertains to the classification of plant communities, rather than areas of land (for example, Johnson and Simon 1987; Williams and Smith 1991). The term “plant association” (or “association”) will be used refer to potential natural vegetation. With reference to much of the community classification work of Idaho, the term “plant association” as used here refers to the vegetative expression of the habitat type.

The term “plant community type” will be used to refer to vegetation for which the seral status is unknown. Other uses of classification units of existing vegetation are not recognized in this study. As the classification unit of existing vegetation encompasses a single combination of seral status and structural condition, it is a relatively transient, dynamic expression of a given site. In contrast, the unit of potential natural vegetation encompasses all potential seral stages and structural conditions of a given site. Thus, only the unit of potential natural vegetation is sufficiently stable in time to fulfill an important need, or objective, of Research Natural Area establishment: maintenance of an ecological reference against which the effects of human activities may be assessed.

The term “plant community element” is used generically to include both plant associations and community types. The term is linked to Natural Heritage Program protocols in the sense that “elements” represent all the components

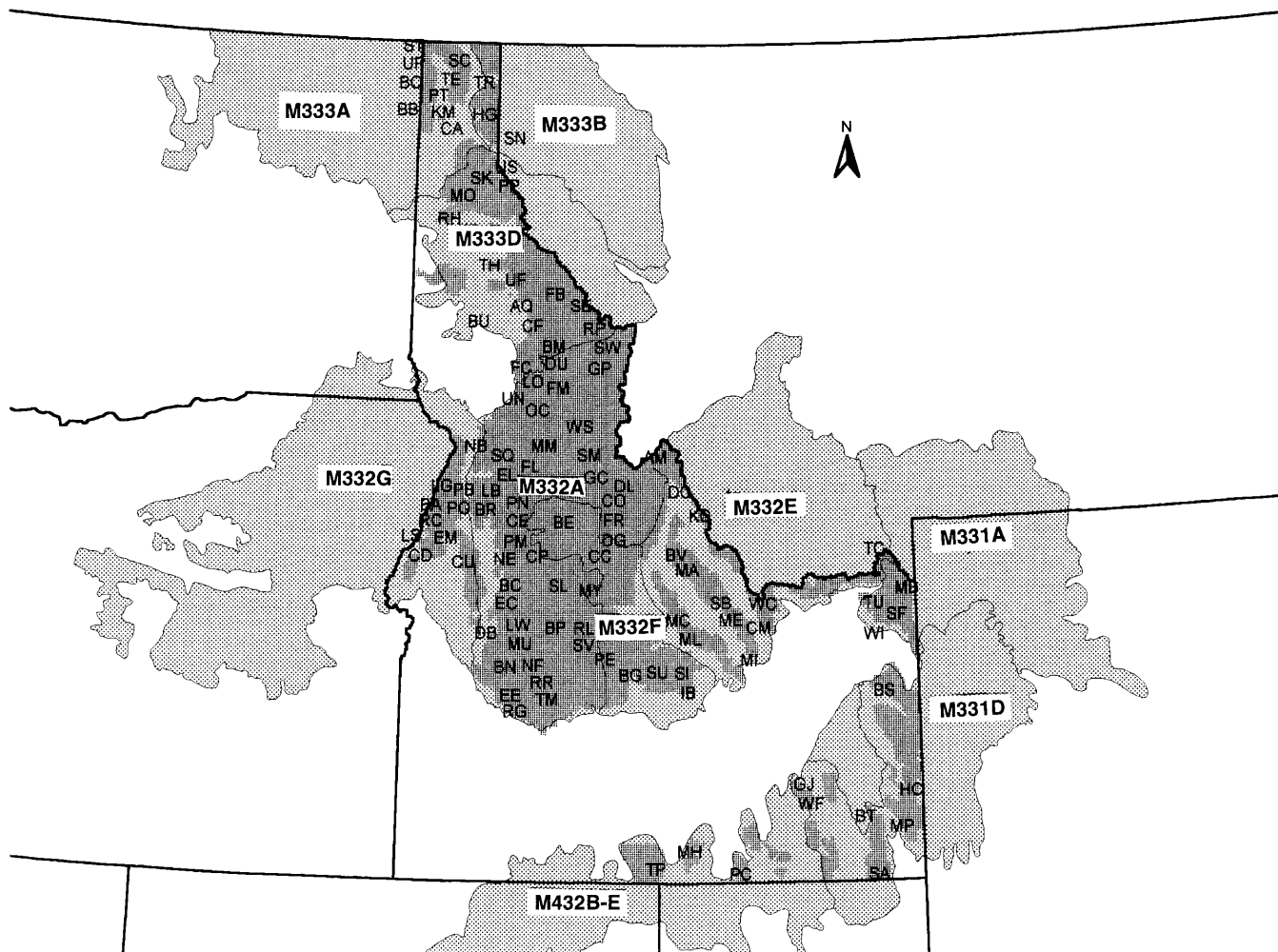


Figure 2—The location of research Natural Areas on National Forest System lands within Idaho. The approximate location of proposed and established Research Natural Areas is indicated by two-character codes. The name associated with the code is shown in appendix A.

of “natural biological and ecological diversity” (The Nature Conservancy 1982). The term “occurrence” (or “plant community element occurrence”) as used here is also derived from Heritage protocols. A plant community element occurrence is simply a stand, or group of stands, of a plant association or community type all located within close proximity (for example, within a Research Natural Area) and that meets minimum criteria regarding ecological integrity and conservation status. The idea of a “cell” as a unit for assessing natural area needs (as used by Dyrness and others 1975) is developed here as the unique combination of a plant community element (that is, plant association or community type) and the ecoregional section in which it occurs.

The individual distributions of species give rise to variation in species composition over the range of a particular community element. Due to administrative and logistic factors, considerable variation occurs in the geographical scope of work in community ecology and to what degree biological differences in composition and structure are resolved. In compiling a regional classification, these factors

contribute to problems with the compatibility of community elements described by different authors. Idaho lies at the joining of five ecological provinces (Bailey and others 1994; McNab and Avers 1994), and thus occurs at the periphery of the distributional range of a number of plant community elements. These factors contribute to a range of different levels of confidence in plant community classification work, which may be generalized as:

1. Confidence is low in plant community elements that are based only on field observations (formal data collection and analysis have not yet occurred).
2. Confidence is moderate in plant communities that are described outside our area but supported in our area only by observational data.
3. Confidence is moderate in community elements that are described over a small area relative to the expected range of the element and for which the relevance of the classification work to the expected range has not been formally documented.

4. Confidence in the classification is high for plant community elements that are described from data collected in our area and that have been treated in regional discussion of synonymy (Grossman and others 1994).

Classification crosswalks (between similar plant associations that are named differently) employed in this study are documented by Rust (1997).

Plant community elements known or expected to occur in Idaho, and treated in this analysis, are listed in table 1 (on page 18, following the References section) within the National Vegetation Classification (NVC) (Federal Geographic Data Committee 1996) framework (see Rust 1996 for a detailed reconciliation of the Classification). The vegetation classification includes plant associations and relatively stable community types that are recurrent and prominent over the landscape. Vegetation resulting from human activities (anthropogenic vegetation or disclimatic vegetation) is not included in the classification. Principal authorship for each community element is identified as a basis for comparing composition and structure and resolving issues of synonymy. Notes on the level of confidence in the classification of plant associations and community types are provided in situations where the confidence is less than high. Plant species nomenclature follows Hitchcock and Cronquist (1973), with the following exceptions: *Salix* follows Brunsfeld and Johnson (1985), with the exception of *Salix amygdaloides*, *Salix lasiolepis*, and *Salix scouleriana* which follow Hitchcock and Cronquist (1973); *Carex utriculata* as treated by Reznicek (1987); *Leucopoa kingii*, *Poa cusickii*, and *Poa epilis* as treated by Cronquist and others (1977); *Artemisia* follows Cronquist and others (1994), except that *Artemisia arbuscula arbuscula*, *Artemisia arbuscula thermopola*, and *Artemisia longiloba* are recognized as treated by Winward and Tisdale (1977), and *Artemisia tridentata xericensis* by Rosentreter and Kelsey (1991); and *Poa secunda* as treated by Arnow (1981).

The classification of aquatic plant associations within Idaho is not well developed. The three aquatic plant associations currently identified are not included in this analysis. Information concerning these aquatic associations is presented by Jankovsky-Jones and others (1999).

Estimation of Natural Distribution and Abundance

The distribution and abundance of community elements in the study area are estimated using information derived from (1) the modeling of potential vegetation prepared for the Interior Columbia Basin Ecosystem Management Project (Reid and others 1995), (2) published regional community classification and inventory plot data, and (3) plant community element occurrence data (Idaho Conservation Data Center 1996). In the Interior Columbia Basin Ecosystem

Management Project modeling of potential natural vegetation, the physical environment is compartmentalized into gradients of moisture and temperature. Four levels of each factor are combined to give rise to a matrix of 16 "biophysical settings." A matrix of biophysical settings was developed within each ecoregional section for each of three portions of the landscape, named for dominate physiognomic groups: forest, shrubland, and grassland. Potential vegetation is modeled using this framework, within each ecoregional section, by assigning groups of communities to a specific cell, or biophysical setting, within one of the three matrices. This vegetation mapping project was selected as the best available source of information for the representative assessment because it provides information on potential natural vegetation (a fundamental criterion) and provides consistent coverage for the entire study area. The scale (pixel size 1 x 1 km) is a disadvantage of the project because it does not effectively reflect vegetation that typically occurs in small environmental units (for example, riparian vegetation). Information presented by Reid and others (1995) was extensively updated, based on refined distributional and classification information, so that every community known or expected to occur in the study area is assigned to an appropriate biophysical setting.

An additional shortcoming of the Interior Columbia Basin Ecosystem Management Project modeling project is that it only estimates the relative abundance of biophysical settings. To fulfill the objectives of the representativeness assessment, information on the abundance of associations within each cell of the biophysical setting matrices is needed. Most community classification and inventory publications provide information on the distribution and number of plots observed. This information is summarized by ecoregional section for studies that are representative of a selected set of biophysical settings for a given ecoregional section. For example, Steele and others (1981) provides information on selected forested biophysical settings in the Idaho Batholith, Beaverhead Mountains, Challis Volcanics, and Blue Mountains ecoregional sections. Depending on the information available, the estimated natural abundance of individual communities within each ecoregional section is estimated as (listed in descending order of preference):

1. The product of the percent frequency of pixels classified as a given biophysical setting and the percent of plots observed for the community relative to other communities within the respective biophysical setting and ecoregional section.
2. The percent of plots observed for the community relative to all plots observed in the entire ecoregional section.

3. The quotient of the percent frequency of pixels classified as a given biophysical setting and the number of communities assigned to the respective biophysical setting and ecoregional section.

Resultant percentage values are transformed to abundance classes using an octave scale. Abundance classes listed with percent ranges and narrative descriptive classes are:

Abundance class	Percent range	Descriptive class
0	0	Present
1	> 0, ≤ 0.25	Incidental
2	> 0.25, ≤ 0.50	Incidental
3	> 0.50, ≤ 1	Incidental
4	> 1, ≤ 2	Minor
5	> 2, ≤ 4	Minor
6	> 4, ≤ 8	Minor
7	> 8, ≤ 16	Major
8	> 16, ≤ 32	Major
9	> 32, ≤ 64	Major
10	> 64	Major

An effect of this approach on the estimation of the natural abundance of communities within the study area is that the characterization of any selected biophysical setting is weighted by communities that occur in Idaho. Only data from community classification and inventory studies that incorporate Idaho are included in the analysis.

In completion of the second task required for the representativeness assessment (summarize the distribution and relative abundance of plant community elements by ecological region), 1,566 combinations of plant community element and ecoregional section are recognized. Each of these combinations may be viewed as a "cell" within the natural area network in the same sense as employed by Dyrness and others (1975). The estimated natural abundance of each plant community element is listed in table 2 (following the References section) by ecoregional section.

Selection of Representative Element Occurrences

To complete the third task required for the assessment, minimum plant community element occurrence criteria were established to include element occurrences that are viable and possess high representative quality. Viability (and to a lesser extent, quality) was assessed on the basis of the level of protection provided the occurrence. Only community elements within the following types of conservation sites were included in the analysis: USDI Bureau of Land Management Areas of Critical Environmental Concern and Research Natural Areas; USDA Forest Service Research Natural Areas and Special Interest Areas; The

Nature Conservancy Preserves; Idaho Department of Fish and Game and USDI Fish and Wildlife Service Wildlife Management Areas; and Washington State Department of Natural Resources Natural Area Preserves. Element occurrences in the Washington, Oregon, Nevada, Utah, Wyoming, and Montana portions of ecoregional sections adjoining Idaho were considered for inclusion in the analysis. Research Natural Areas on NFS lands in Idaho are listed by ecological section (Bailey and others 1994; McNab and Avers 1994) with size and minimum and maximum elevation (see figure 1 for geographic distribution) in appendix A and by administrative unit in appendix B. All natural areas considered in the study are listed in appendix C.

The representative quality of each occurrence was assessed on the basis of the type of conservation site the occurrence is within, narrative descriptions of the occurrence (which may describe, for example, problems with noxious weeds or past and current livestock use), and size. Justification for the use of the type of conservation site as a threshold measure of representative quality is based on administrative policy for selection and establishment. Research Natural Areas, Areas of Critical Environmental Concerns, and Natural Area Preserves are selected specifically to provide recognition of high quality representative plant community occurrences.

A variety of different resource management objectives may apply (for example, ranging from the production of specific habitat conditions to protection of open space) to The Nature Conservancy Preserves and Wildlife Management Areas. As a result of the land acquisition transactions that contribute to their establishment, these areas may also incorporate land that is no longer in a natural state. In all cases, however, the representative quality of plant community occurrences reported for these areas (and treated in this analysis) is verified on the basis of narrative descriptions on file at the Idaho Conservation Data Center.

Size is an important measure of both viability and representative quality. Many plant associations occur as large, continuous stands. Others (especially in riparian and wetland habitats) occur within a complex mosaic of environmentally associated communities. In these cases, the size of the individual occurrence is more a reflection of the estimated relative abundance of the community with respect to the total area of the stand mosaic. While the assembly of communities present represents the total biological diversity of the complex, the stand mosaic is the unit of ecosystem function, and thus the most appropriate biological unit for the assessment of representative quality. To allow for the inclusion of a small individual occurrence within a mosaic of environmentally associated communities, size specifications were developed for sets, or classes, of biophysical environments and applied to the sum of associated occurrences within a site. Minimum element occurrence size criteria listed for 12 biophysical classes follows.

Each class incorporates four biophysical settings as identified in the Interior Columbia Basin Ecosystem Management Project modeling of potential natural vegetation (Reid and others 1995). For example, the class “cold dry to cool very dry forest” includes the following biophysical settings: cold dry forest, cold very dry forest, cool dry forest, and cool very dry forest.

Biophysical class	Minimum size
	—Acres—
Cold dry to cool very dry forest	40
Cold dry to cool very dry herbland	20
Cold dry to cool very dry shrubland	20
Cold wet to cool moist forest	20
Cold wet to cool moist herbland	5
Cold wet to cool moist shrubland	10
Warm dry to hot very dry forest	20
Warm dry to hot very dry herbland	20
Warm dry to hot very dry shrubland	20
Warm wet to hot moist forest	40
Warm wet to hot moist herbland	5
Warm wet to hot moist shrubland	10

Plant community element occurrences that meet the minimum criteria and are located within Research Natural Areas on NFS lands within Idaho are listed by Research Natural Area in appendix D. A complete list of plant community elements included in the assessment is provided in appendix E.

Relative abundance values for each community element are calculated, for each ecoregional section, as the quotient of the sum of the acreage of occurrences that meet the minimum criteria and the total of all occurrences within the section (that meet the minimum criteria). The resulting percentage values are transformed to abundance classes using an octave scale and referred to as the “relative abundance of reference occurrences.” The “count of reference occurrences” is the number of occurrences of each community element meeting the minimum viability and quality criteria within each section.

Completion of the third task required for the representativeness assessment, which is to identify representative plant community element occurrences and summarize the relative abundance of these selected occurrences by ecological region, provides information on how well each cell (or each combination of plant community elements within an ecoregional section) is represented (or the extent to which the cell is “filled”) within the natural area network. The “relative abundance of reference occurrences” for each cell is intended for comparison to the estimated natural abundance of the cell, and together with the “count of reference occurrences,” is used to assess the priority of

need for further representation of the cell within the natural area network.

Assignment of Priorities for Filling Gaps in the Natural Area Network

Priorities for filling gaps within the natural area network are assigned through consideration of the adequacy and viability of the current representation. Values for the estimated natural abundance, the relative abundance of reference occurrences, and the count of reference occurrences embody these concepts. In assessing the “adequacy” of representation, the relative total area of occurrences and the potential range of variation in the occurrences are considered based on comparison of the abundance of reference occurrences to the estimated natural abundance, and the count of reference occurrences. Assessment of the “viability” of plant community representation within the natural area network is based on the count of occurrences. Following is a narrative description of criteria used to assign priorities (discrete logic rules for the assignment of priorities are shown in the table that follows):

- Priority 1. A cell with major or minor estimated natural abundance, but incidental or no representation (respectively) within the natural area network.
- Priority 2. Major and minor cells represented by few reference occurrences of small size, or incidental cells represented by one very small or no element occurrences within the natural area network.
- Priority 3. Major and minor cells that are represented by less than two plant community element occurrences, major and minor cells represented by several small occurrences, or incidental cells that are represented by one or no element occurrences within the natural area network.
- Priority 4. Cells that are fully represented within the natural area network; the element occurrence abundance is equal to, or greater than, the estimated natural abundance, and greater than two element occurrences are present.
- Priority 5. Plant community elements that are known or expected to occur within the respective ecoregional section, are represented by no occurrences, and for which there is insufficient information (based on the methods applied in this study) to assess the estimated natural abundance.

Logic rules applied in the assignment of priorities of need for improved representation are listed by priority rank. If

the sum of the size of all the occurrences of a particular element within a section is smaller than the minimum size criteria identified for the biophysical class (as listed on page 7) listed in the previous tabulation, the priority ranking for the element is dropped by one.

Priority	Estimated natural abundance	Relative abundance of reference occurrences	Difference ^a	Count of reference occurrences
1	≥ 7	≤ 3		
	≥ 4, < 7	0		
2	≥ 4		≥ 3	≤ 3
	≥ 5		> 0	≤ 1
	= 4		≤ 2	≤ 1
	≥ 3	0		≤ 1
3	≥ 5	≤ 2		
	≥ 4	≥ 2	≤ 4	
	4	> 0	≤ 2	
	≥ 2	≤ 1		
	0	1		
	1	1		
4 not otherwise assigned				
5	0		0	0

^aEstimated natural abundance minus abundance of reference occurrences.

Results and Discussion

Table 2 on page 30 displays the result of the representativeness assessment. Plant associations and community types known or expected to occur within the study area are listed by ecoregional section. A large number (1,566) of combinations of plant community elements within ecoregional sections are recognized. Each of these combinations constitutes a cell within the potential natural area network. For each cell, the estimated natural abundance of the community element within the respective ecoregional section, the relative abundance of reference occurrences that meet specified criteria, and the number of reference occurrences that meet the minimum criteria are listed with the priority of need for locating a new Research Natural Area to fill unfilled cells or to improve the representation of poorly represented cells. Priorities are based on the comparison of the relative abundance of reference occurrences to the estimated natural abundance, and the count of reference occurrences, as described previously.

In an initial review of the information presented in table 2, it appears that the representation of plant communities is not well balanced within each ecological section and by vegetation subclass. Deciduous forest, deciduous

shrubland, and short grassland community elements appear to be most poorly represented throughout the natural area network. In part, this is an artifact of the history of inventory work contributing to the identification of Research Natural Areas and related descriptive community ecology. Deciduous shrubland and short grassland communities occur in recognized Research Natural Areas but are inadequately described (for example, simply identified as "wet meadow") because inventory work was completed prior to the availability of applicable community classification work.

Northwest Basin and Range Section

The Northwest Basin and Range Section is characterized and distinguished by a relatively high diversity of shrubland environments. Warm, dry; warm, moist; and cool, dry shrubland environments occupied by *Artemisia tridentata wyomingensis* and *Artemisia tridentata vaseyana* plant associations are dominant (table 2). Forested environments account for (approximately) 10 percent of the land area. National Forest System (NFS) lands within the section disproportionately represent cool, dry shrubland and forested environments. For example, while *Artemisia tridentata wyomingensis* associations are most abundant within the section overall (table 2), *Artemisia tridentata vaseyana* associations are more prominent on NFS lands. National Forest System lands within the section, compared to all other sections within the study area, are most restricted and patchy, and least encompassing of the total range of diversity.

The biological diversity of this ecoregional section, compared to others in the study area, is the least well represented by natural areas. Twenty-four cells are partially filled by four conservation sites. The greatest proportion of community elements within the section are assigned Priority 2. Highest priorities for the enhancement of the representativeness of the natural area network on NFS lands include *Pseudotsuga menziesii*, *Populus tremuloides*, *Juniperus osteosperma*, *Artemisia tridentata spiciformis*, *Artemisia tridentata vaseyana*, and *Cercocarpus ledifolius* plant community elements (table 2).

The Idaho portions of the Northwest Basin and Range Section are peripheral to many of the relevant plant community classification and inventory studies (Manning and Padgett 1995; Mauk and Henderson 1984; Nelson and Jensen 1987; Padgett and others 1989; Steele and others 1983). Herbland and wet shrubland environments were not mapped in the Interior Columbia Basin Ecosystem Management Project model of potential natural vegetation (Reid and others 1995). Therefore, portions of the distribution and abundance of plant communities within the section are not well documented.

Yellowstone Highlands Section

Cold, dry forest environments in which *Abies lasiocarpa* associations are the potential natural vegetation are dominant in the Yellowstone Highlands Section. Forest environments occupy approximately 75 percent of the land area; herbland and shrubland occupy approximately 15 percent and 8 percent.

Sixty-one community element occurrences are represented at 8 conservation sites. Within these sites, community elements that occur in cool, wet and cool, moist environments are disproportionately well represented. Cells for *Carex aquatilis*, *Carex nebraskensis*, *Carex simulata*, *Carex utriculata*, *Deschampsia cespitosa*, *Eleocharis palustris* (wetland/riparian), *Juncus balticus*, *Populus tremuloides*/*Amelanchier alnifolia*-*Symphoricarpos oreophilus*/*Calamagrostis rubescens*, and *Populus tremuloides*/*Symphoricarpos oreophilus*/*Calamagrostis rubescens* are considered fully represented within the natural area network (table 2).

The highest priorities for enhancement of the representative quality of the natural area network occur in lower elevation warm, dry to hot, very dry and warm, wet to hot, moist forest, shrubland and herbland; and cold, dry to cool, very dry forest environments. Priority 1 cells include *Abies lasiocarpa*/*Acer glabrum*, *Abies lasiocarpa*/*Arnica cordifolia*, *Abies lasiocarpa*/*Calamagrostis rubescens*, *Abies lasiocarpa*/*Juniperus communis*, *Abies lasiocarpa*/*Vaccinium globulare*, *Agropyron spicatum*-*Poa secunda*, *Artemisia tridentata tridentata*/*Agropyron spicatum*, *Artemisia tridentata tridentata*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Festuca idahoensis*, *Cercocarpus ledifolius*/*Agropyron spicatum*, *Festuca idahoensis*-*Agropyron spicatum*, *Picea engelmannii*/*Galium trifolium*, *Pinus albicaulis*/*Carex geyeri*, *Populus trichocarpa*/*Cornus stolonifera*, *Pseudotsuga menziesii*/*Arnica cordifolia*, *Pseudotsuga menziesii*/*Juniperus communis*, *Pseudotsuga menziesii*/*Physocarpus malvaceus*, and *Pseudotsuga menziesii*/*Symphoricarpos albus*. These cells are all potentially filled on NFS lands. Representative occurrences of *Artemisia tridentata tridentata*/*Agropyron spicatum*, *Artemisia tridentata tridentata*/*Festuca idahoensis*, and *Populus trichocarpa*/*Cornus stolonifera*, however, may best be located off NFS lands. The contribution of Yellowstone National Park to the representation of biological diversity within this section needs to be more fully assessed and documented (within the framework of this study).

Overthrust Mountains Section

Forest and shrubland environments are predominant in the Overthrust Mountains Section, occupying approximately 60 percent and 40 percent, of the land area. Herbland environments are incidental. Important plant associations within the section are *Abies lasiocarpa*/*Berberis repens*, *Abies*

lasiocarpa/*Calamagrostis rubescens*, *Abies lasiocarpa*/*Pedicularis racemosa*, *Abies lasiocarpa*/*Physocarpus malvaceus*, *Abies lasiocarpa*/*Vaccinium globulare*, *Artemisia tridentata tridentata*/*Agropyron spicatum*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Festuca idahoensis*, *Populus tremuloides*/*Calamagrostis rubescens*, *Pseudotsuga menziesii*/*Berberis repens*, and *Pseudotsuga menziesii*/*Calamagrostis rubescens*.

One hundred twenty-six community element occurrences are within nine conservation sites. Cold, wet to cool, moist forest; warm, wet to hot, moist forest; and warm, wet to hot, moist herbland environments are disproportionately well represented in the natural area network. Twenty-two cells are considered fully represented (table 2).

Cold, dry to cool, very dry forest; cold, dry to cool, very dry shrubland; and warm, dry to hot, very dry shrubland environments are poorly represented in the natural area network. Ten cells are assessed as Priority 1: *Abies lasiocarpa*/*Arnica cordifolia*, *Abies lasiocarpa*/*Symphoricarpos albus*, *Artemisia tridentata tridentata*/*Agropyron spicatum*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Festuca idahoensis*, *Cercocarpus ledifolius*/*Artemisia tridentata vaseyana*, *Picea engelmannii*/*Ribes montigenum*, *Populus tremuloides*/*Calamagrostis rubescens*, *Pseudotsuga menziesii*/*Spiraea betulifolia*, and *Pseudotsuga menziesii*/*Symphoricarpos albus*. Within the Overthrust Mountains Section, these plant associations are expected to occur and may best be represented on NFS lands.

Idaho Batholith Section

The Idaho Batholith Section encompasses 301 community element occurrences within 42 conservation sites. This section is characterized by a relatively diverse array of forested environments. Forest and shrubland environments (80 percent and 20 percent of the land area) are dominant; herbland environments are incidental. Important associations include *Abies grandis*/*Acer glabrum*, *Abies grandis*/*Clintonia uniflora*, *Abies grandis*/*Xerophyllum tenax*, *Abies lasiocarpa*/*Carex geyeri*, *Abies lasiocarpa*/*Clintonia uniflora*, *Abies lasiocarpa*/*Streptopus amplexifolius*, *Abies lasiocarpa*/*Xerophyllum tenax*, *Pinus albicaulis*-*Abies lasiocarpa*, *Pseudotsuga menziesii*/*Calamagrostis rubescens*, *Pseudotsuga menziesii*/*Carex geyeri*, *Pseudotsuga menziesii*/*Physocarpus malvaceus*, and *Pseudotsuga menziesii*/*Spiraea betulifolia*.

This section possesses the highest frequency of fully represented cells (23 percent) (table 2). Cold, wet to cool, moist forest; warm, dry to hot, very dry herbland; and warm, wet to hot, moist forest environments are disproportionately well represented within the section. Cold, dry to cool, very dry shrubland; cold, wet to cool, moist; and

warm, dry to hot, very dry shrubland environments are generally poorly represented.

The highest priorities are for enhanced representation of the following cells: *Abies lasiocarpa*/*Vaccinium caespitosum*, *Artemisia arbuscula arbuscula*/*Poa secunda*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Carex geyeri*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Carex geyeri*, *Artemisia tridentata vaseyana*/*Stipa comata*, *Cercocarpus ledifolius*/*Festuca idahoensis*, *Cercocarpus ledifolius*/*Symphoricarpos albus*/*Festuca idahoensis*, *Pinus contorta*/*Festuca idahoensis*, *Pinus contorta*/*Vaccinium scoparium*, *Purshia tridentata*/*Festuca idahoensis*, and *Salix drummondiana*/*Calamagrostis canadensis*. In the Idaho Batholith Section, these plant community elements occur, and are potentially best represented, on NFS lands.

Beaverhead Mountains Section

As with the Overthrust Mountains Section, the Beaverhead Mountains and Challis Volcanics Sections are characterized by a relatively even mix of forest and shrubland environments. In the Beaverhead Mountains Section forest and shrubland environments occur over approximately 38 and 60 percent of the land area. Herbland environments occupy approximately 2 percent of the land area. Predominant biophysical environments are cold, dry forest (occupied primarily *Abies lasiocarpa* plant associations) and cool, moist shrubland (primarily *Artemisia tridentata vaseyana* associations). Important plant associations within the ecoregional section are *Abies lasiocarpa*/*Arnica cordifolia*, *Abies lasiocarpa*/*Calamagrostis rubescens*, *Abies lasiocarpa*/*Ribes montigenum*, *Artemisia arbuscula arbuscula*/*Festuca idahoensis*, *Artemisia nova*/*Agropyron spicatum*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Agropyron spicatum*, *Artemisia tridentata vaseyana*/*Festuca idahoensis*, and *Pseudotsuga menziesii*/*Calamagrostis rubescens*.

The Beaverhead Mountains Section encompasses 139 community element occurrences within 21 conservation sites. Thirty-one cells are considered fully represented. Cold, dry to cool, very dry forest; cold, wet to cool, moist forest; warm, dry to hot, very dry forest; and warm, dry to hot, very dry herbland environments are disproportionately well represented in the natural area network. Cold, dry to cool, very dry shrubland; cold, wet to cool, moist herbland; cold, wet to cool, moist shrubland; warm, dry to hot, very dry shrubland; warm, wet to hot, moist forest; and warm, wet to hot, moist shrubland environments are relatively poorly represented within the natural area network. Eight cells are assessed as the highest priority for inclusion within the natural area: *Abies lasiocarpa*/*Spiraea betulifolia*, *Artemisia arbuscula arbuscula*/*Agropyron spicatum*, *Artemisia arbuscula arbuscula*/*Festuca idahoensis*, *Artemisia*

tridentata spiciformis/*Bromus carinatus*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Bromus carinatus*, *Artemisia tridentata wyomingensis*/*Agropyron spicatum*, and *Populus tremuloides*/*Calamagrostis rubescens*. All of these associations are likely to occur on NFS lands within the section.

Challis Volcanics Section

The Challis Volcanics Section encompasses approximately 58 percent and 39 percent forest and shrubland environments. Approximately 3 percent of the land area is herbland environments. Predominant biophysical environments are warm, dry forest; cool, dry forest; cool, dry shrubland; and cool, moist shrubland. *Abies lasiocarpa*/*Carex geyeri*, *Abies lasiocarpa*/*Vaccinium scoparium*, *Artemisia tridentata vaseyana*/*Agropyron spicatum*, *Artemisia tridentata wyomingensis*/*Agropyron spicatum*, *Leucopoa kingii*/*Phlox pulvula*, *Pinus albicaulis*-*Abies lasiocarpa*, *Pseudotsuga menziesii*/*Arnica cordifolia*, and *Pseudotsuga menziesii*/*Symphoricarpos oreophilus* are important associations within the ecoregional section.

Fifty-eight community occurrences are located within eight conservation sites. Cold, wet to cool, moist forest environments are generally disproportionately well represented. Cold, dry to cool, very dry shrubland; warm, dry to hot, very dry forest; and warm, dry to hot, very dry herbland environments are generally poorly represented within the natural area network. Seventeen cells are most in need of enhanced representation in the Challis Volcanics Section: *Alnus incana*/*Cornus stolonifera*, *Artemisia arbuscula arbuscula*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*-*Symphoricarpos oreophilus*/*Festuca idahoensis*, *Artemisia tridentata vaseyana*/*Agropyron spicatum*, *Artemisia tridentata wyomingensis*/*Agropyron spicatum*, *Artemisia tripartita*/*Agropyron spicatum*, *Artemisia tripartita*/*Festuca idahoensis*, *Festuca idahoensis*/*Potentilla diversifolia*, *Haplopappus suffruticosus*/*Festuca idahoensis*, *Haplopappus suffruticosus*/*Sitanion hystrix*, *Leucopoa kingii*/*Achillea millefolium*, *Leucopoa kingii*/*Phlox pulvula*, *Pseudotsuga menziesii*/*Agropyron spicatum*, *Pseudotsuga menziesii*/*Berberis repens*, *Pseudotsuga menziesii*/*Juniperus communis* and *Salix wolfii*/*Swertia perennis*-*Pedicularis groenlandica*. All of these plant associations and community types likely occur on NFS lands within the section. *Artemisia tridentata wyomingensis*/*Agropyron spicatum*, *Artemisia tripartita*/*Agropyron spicatum*, and *Artemisia tripartita*/*Festuca idahoensis* may well be best represented on sites off NFS lands. Nine cells are considered fully represented within the section (table 2).

Blue Mountains Section

The Blue Mountains Section encompasses a relatively diverse complement of forest, herbland, and shrubland

biophysical environments. Important plant associations and community types within this section are *Abies grandis*/*Calamagrostis rubescens*, *Abies grandis*/*Clintonia uniflora*, *Abies grandis*/*Spiraea betulifolia*, *Abies lasiocarpa*/*Vaccinium scoparium*, *Agropyron spicatum*-*Poa secunda*, *Carex utriculata*, *Cercocarpus ledifolius*/*Symphoricarpos albus*/*Festuca idahoensis*, *Festuca idahoensis*-*Koeleria cristata*, *Pinus ponderosa*/*Festuca idahoensis*, *Pinus ponderosa*/*Symphoricarpos albus*, *Pseudotsuga menziesii*/*Calamagrostis rubescens*, *Pseudotsuga menziesii*/*Physocarpus malvaceus*, *Pseudotsuga menziesii*/*Spiraea betulifolia*, *Pseudotsuga menziesii*/*Symphoricarpos albus*, *Purshia tridentata*/*Festuca idahoensis*, and *Salix exigua*/Barren. Approximately 63 percent of the land area is forest environments, 23 percent shrubland, and 13 percent herbland environments.

There are 97 community element occurrences within 11 conservation sites treated in this analysis. Twenty-one cells in the natural area network are assessed as fully represented (table 2). Cold, wet to cool, moist forest; cold, wet to cool, moist herbland; warm, wet to hot, moist herbland; and warm, wet to hot, moist shrubland environments are disproportionately poorly represented within the ecoregional section. The highest priorities for inclusion within the natural area network are representative examples of *Abies grandis*/*Calamagrostis rubescens*, *Abies grandis*/*Linnaea borealis*, *Artemisia tridentata* vaseyana/*Carex geyeri*, *Carex aquatilis*, *Carex utriculata*, *Cercocarpus ledifolius*/*Symphoricarpos albus*/*Festuca idahoensis*, *Pinus ponderosa*/*Purshia tridentata*, *Pinus ponderosa*/*Purshia tridentata*, *Pseudotsuga menziesii*/*Agropyron spicatum*, *Pseudotsuga menziesii*/*Carex geyeri*, *Purshia tridentata*/*Festuca idahoensis*, and *Salix exigua*/Barren. Sites for the inclusion of these cells within the natural area network should occur on NFS lands.

Okanagon Highlands Section

The Okanagon Highlands Section is predominantly forest environments (80 percent of the land area), with a small proportion of shrubland environments (20 percent of the land area). Herbland environments are incidental. Relatively warm, dry; cool, moist; and warm, moist forest environments and hot, dry shrubland environments are representative of the section. *Abies grandis*/*Clintonia uniflora*, *Abies grandis*/*Xerophyllum tenax*, *Abies lasiocarpa*/*Clintonia uniflora*, *Abies lasiocarpa*/*Streptopus amplexifolius*, *Pinus ponderosa*/*Physocarpus malvaceus*, *Pinus ponderosa*/*Symphoricarpos albus*, *Pseudotsuga menziesii*/*Calamagrostis rubescens*, *Pseudotsuga menziesii*/*Physocarpus malvaceus*, *Pseudotsuga menziesii*/*Symphoricarpos albus*, *Pseudotsuga menziesii*/*Vaccinium caespitosum*, *Thuja plicata*/*Clintonia uniflora*, *Thuja plicata*/*Oplopanax horridum*, *Tsuga heterophylla*/*Asarum caudatum*, and *Tsuga heterophylla*/*Clintonia uniflora* are important plant associations.

There are 65 plant community element occurrences reported for the area; these are within 13 conservation sites. Generally, cold, wet to cool, moist forest, herbland, and shrubland environments are well represented within the section. Warm, dry to hot, very dry forest environments are generally poorly represented in natural areas within the section. Ten cells are considered fully represented. Ten cells are also assigned the highest priority for enhancement of representation within the natural area network: *Abies grandis*/*Physocarpus malvaceus*, *Abies grandis*/*Xerophyllum tenax*, *Pinus ponderosa*/*Festuca idahoensis*, *Pinus ponderosa*/*Physocarpus malvaceus*, *Pinus ponderosa*/*Symphoricarpos albus*, *Pseudotsuga menziesii*/*Calamagrostis rubescens*, *Pseudotsuga menziesii*/*Spiraea betulifolia*, *Pseudotsuga menziesii*/*Symphoricarpos albus*, *Pseudotsuga menziesii*/*Vaccinium caespitosum*, and *Thuja plicata*/*Clintonia uniflora*. These plant associations are all expected to occur on NFS lands within the Okanagon Highlands Section. The best opportunity for their representation, however, may not occur on NFS lands in Idaho.

Flathead Valley Section

Relatively warm, dry; cool, moist; and warm, moist forest environments and hot, very dry herbland environments are characteristic of the Flathead Valley Section. Approximately 85 percent of the land area is forest environments; 15 percent is herbland. Important plant associations include *Abies lasiocarpa*/*Clintonia uniflora*, *Abies lasiocarpa*/*Menziesia ferruginea*, *Abies lasiocarpa*/*Streptopus amplexifolius*, *Abies lasiocarpa*/*Xerophyllum tenax*, *Pseudotsuga menziesii*/*Physocarpus malvaceus*, *Pseudotsuga menziesii*/*Symphoricarpos albus*, *Thuja plicata*/*Oplopanax horridum*, *Tsuga heterophylla*/*Asarum caudatum*, *Tsuga heterophylla*/*Clintonia uniflora*, *Tsuga heterophylla*/*Gymnocarpium dryopteris*, and *Tsuga heterophylla*/*Menziesia ferruginea*.

There are 64 community element occurrences within 10 conservation sites. Natural areas within the section provide disproportionately high representation of cold, dry to cool, very dry forest environments. Warm dry to hot, very dry herbland environments are most poorly represented within the section. Thirteen cells are assessed as fully represented within the Flathead Valley Section. Three cells are identified as most in need of enhanced representation: *Tsuga heterophylla*/*Asarum caudatum*, *Tsuga heterophylla*/*Gymnocarpium dryopteris*, and *Tsuga heterophylla*/*Menziesia ferruginea*.

Bitterroot Mountains Section

The Bitterroot Mountains Section is predominantly forest environments. Relatively warm, moist; warm, dry; cool, dry; and cool, moist forest environments are most abundant. *Abies grandis*/*Asarum caudatum*, *Abies grandis*/

Clintonia uniflora, *Abies grandis* / *Physocarpus malvaceus*, *Abies lasiocarpa* / *Xerophyllum tenax*, *Pseudotsuga menziesii* / *Physocarpus malvaceus*, *Thuja plicata* / *Adiantum pedatum*, *Thuja plicata* / *Asarum caudatum*, *Thuja plicata* / *Athyrium filix-femina*, *Thuja plicata* / *Clintonia uniflora*, *Tsuga heterophylla* / *Asarum caudatum*, *Tsuga heterophylla* / *Clintonia uniflora*, *Tsuga mertensiana* / *Clintonia uniflora*, *Tsuga mertensiana* / *Menziesia ferruginea*, and *Tsuga mertensiana* / *Xerophyllum tenax* are important plant associations within the section.

There are 89 plant community element occurrences within 18 conservation sites. Compared to other sections within the study area, the relative abundance of protected occurrences is most representative of the estimated natural relative abundance. Relatively warm, dry to hot, very dry forest environments are most poorly represented within the natural area network. Sixteen cells are considered fully represented. Four cells are in most need of enhanced representation within conservation sites: *Abies grandis* / *Xerophyllum tenax*, *Pseudotsuga menziesii* / *Symphoricarpos albus*, *Tsuga mertensiana* / *Clintonia uniflora*, and *Tsuga mertensiana* / *Streptopus amplexifolius*.

Conclusions

The coarse filter / fine filter approach to conservation is a useful model for working with the complexity of biological diversity. Given the objective to preserve a wide spectrum of pristine areas that represent important forest, shrubland, and grassland habitats, USDA Forest Service Research Natural Areas serve as coarse filters in the conservation of biological diversity. A key objective of Research Natural Areas is to provide ecological reference areas to monitor the effect of more intensive land management activities.

This representativeness assessment was conducted to assist with an ongoing evaluation of the extent to which the current Research Natural Area network (coupled with other similar conservation sites within the study area) fulfills these objectives and to identify gaps in the network so that steps may be taken to identify and propose new Research Natural Areas to fill these gaps. Arguments for the need of these Natural Areas have been successful. In Idaho the number of established NFS Research Natural Areas has risen from three in 1960 (Shanklin 1960) to 109 today. This system of natural areas provides representation of 285 plant associations in 917 element occurrences. The natural area network, however, still has gaps. While approximately 13 percent of the cells within the network are considered fully represented, 48 percent are assessed as having a high to moderate priority for improved representation within the network.

This study provides an operational prioritization of the need to identify and locate additional Research Natural

Areas in Idaho and portions of adjacent States. Objective ranking criteria provide clear accounting of priority assignments. This information may be used to assess the potential value of a given site to contribute to the natural area network; alternatively, it may be used to identify a Research Natural Area need and organize a search to find sites that fill that need.

References

- Alexander, R. R. 1985. Major habitat types, community types, and plant communities in the Rocky Mountains. General Technical Report RM-123. U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, Co. 105 p.
- Alexander, R. R. 1988. Forest vegetation on National Forests in the Rocky Mountain and Intermountain Regions: habitat types and community types. General Technical Report RM-162. U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. 47 p.
- Allen, B. H. 1986. Remember rangeland reference areas? *Rangelands* 8(4): 180-182.
- Anderson, E. W. 1975. Why preserve natural areas? In: Laycock, W. A. 1975. Rangeland reference areas. *Range Science Series* No. 3. Society for Range Management, Denver, CO. 66 p.
- Andrews, T. 1994. Research Natural Areas in ecosystem management and research. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Washington Office, Washington, DC. 9 p.
- Arnold, L. A. 1981. *Poa secunda* Presl versus *P. sandbergii* Vasey (Poaceae). *Syst. Bot.* 6: 412 - 421.
- Asherin, D. A., and M. L. Orme. 1978. Inventory of riparian habitats and associated wildlife along Dworshak Reservoir and lower Clearwater River. Idaho Cooperative Wildlife Research Unit, College of Forestry, Wildlife and Range Sciences, University of Idaho, Moscow. 477 p.
- Bailey, R. G., P. E. Avers, T. King, and W. H. McNab, eds. 1994. Ecoregions and subregions of the United States (map). Washington, DC: U.S. Geological Survey. Scale 1:7,500,000; colored.
- Blackburn, W. H., P. T. Tueller, and R. E. Eckert, Jr. 1969. Vegetation and soils of the Churchill Canyon Watershed. Nevada Agricultural Experiment Station Bulletin R-45. Reno. 157 p.
- Blackburn, W. H., P. T. Tueller, and R. E. Eckert, Jr. 1971. Vegetation and soils of the Rock Springs Watershed. Nevada Agricultural Experiment Station Bulletin R-83. Reno. 116 p.
- Boggs, K., P. Hansen, R. Pfister, and J. Joy. 1990. Classification and management of riparian and wetland sites in northwestern Montana. University of Montana, Montana Forest and Conservation Experiment Station, School of Forestry, Missoula. 217 p. Draft Version 1.
- Bourgeron P. S. and L. D. Engelking. 1994. A preliminary vegetation classification of the Western United States. The Nature Conservancy, Western Heritage Task Force, Boulder, CO.
- Bourgeron P. S., L. D. Engelking, H. C. Humphries, E. Muldavin, and W. H. Moir. 1995. Assessing the conservation value of the Gray Ranch: rarity, diversity and representativeness. *Desert Plants* 11(2-3): 5 - 66.

- Brunsfeld, S. J. 1981. Alpine flora of east-central Idaho. Thesis, University of Idaho, Moscow. 205 p.
- Brunsfeld, S. J. and F. D. Johnson. 1985. Field guide to the willows of east-central Idaho. University of Idaho, Forest, Wildlife and Range Experiment Station Bulletin No. 39. Moscow. 95 p.
- Buckman, R. E. and R. L. Quintus. 1972. Natural Areas of the Society of American Foresters. Society of American Foresters, Washington, DC.
- Burns, R. M. 1984. Importance of baseline information to the Research Natural Area program. In: Johnson, J. L., J. F. Franklin, and R. G. Krebill, coords. Research Natural Areas: baseline monitoring and management. Proceedings of a symposium in Missoula, MT, March 21, 1984. General Technical Report INT-173. U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Ogden, UT. 84 p.
- Bursik, R. J. and R. K. Moseley. 1995. Ecosystem conservation strategy for Idaho Panhandle peatlands. Cooperative project between Idaho Panhandle National Forests and Idaho Department of Fish and Game, Conservation Data Center, Boise. 28 p. plus appendix.
- Caicco, S. L. 1983. Alpine vegetation of the Copper Basin area, south-central Idaho. Thesis, University of Idaho, Moscow. 99 p.
- Caicco, S. L. and C. A. Wellner. 1983a. Research Natural Area recommendation for Southwest Lemhi Range. Unpublished report prepared for USDI, Bureau of Land Management, Burley District, ID. Idaho Natural Areas Coordinating Committee. On file at Idaho Conservation Data Center, Boise, ID.
- Caicco, S. L. and C. A. Wellner. 1983b. Research Natural Area recommendation for Antelope Flat, BLM, Salmon District, ID. Idaho Natural Areas Coordinating Committee mimeo report, 12 p.
- Caicco, S. L. and C. A. Wellner. 1983c. Research Natural Area recommendation for East Fork Salmon River Bench, BLM, Salmon District, ID. Idaho Natural Areas Coordinating Committee mimeo report, 14 p.
- Caicco, S. L. and C. A. Wellner. 1983d. Research Natural Area recommendation for Malm Gulch, Bureau of Land Management, Salmon District, ID. Natural Areas Coordinating Committee mimeo report.
- Caicco, S. L. and C. A. Wellner. 1983e. Research Natural Area recommendation for Menan Buttes, BLM, Idaho Falls District, ID. Natural Areas Coordinating Committee mimeo report, 10 p.
- Caicco, S. L. and C. A. Wellner. 1983f. Research Natural Area recommendation for Middle Canyon Alluvial Fan, BLM, Idaho Falls District, ID. Idaho Natural Areas Coordinating Committee mimeo report, 10 p.
- Caicco, S. L. and C. A. Wellner. 1983g. Research Natural Area recommendation for Robbers Roost Creek, BLM, Burley District, ID. Idaho Natural Areas Coordinating Committee mimeo report 14 p.
- Chadde, S. W. 1993. Establishment record for Rhodes Peak Research Natural Area, Clearwater National Forest, Clearwater County, ID. 15 p.
- Chadde, S. W., P. L. Hansen, and R. D. Pfister. 1988. Wetland plant communities of the northern range, Yellowstone National Park. University of Montana, School of Forestry, Missoula. 77 p.
- Chadde, S. W., S. F. Kimball, and A. G. Evenden. 1996. Research Natural Areas of the Northern Region: status and needs assessment. U.S. Department of Agriculture, Forest Service, Northern Region and Intermountain Research Station, Missoula, MT.
- Chadwick, H. W. and P. D. Dalke. 1965. Plant succession on dune sands in Fremont County, Idaho. *Ecology* 46:765-780.
- Christensen, N. J. and others. 1996. The report of the Ecological Society of America Committee on the scientific basis for ecosystem management. *Ecological Applications* 6(3): 665-691.
- Code of Federal Regulations Title 36—parks, forests, and public property, Chapter II—Forest Service, Department of Agriculture, Part 219—planning, Subpart A—National Forest System land and resource management planning, 219-11 Forest plan content (d).
- Cooper, S. V., P. Lesica, and D. Page-Dumroese. 1997. Plant community classification for alpine vegetation on the Beaverhead National Forest, Montana. General technical report INT-GTR-362. U.S. Department of Agriculture, Forest Service, Intermountain Research Station, Ogden, UT. 59 pp.
- Cooper, S. V., K. E. Neiman, and D. W. Roberts. 1991. Forest habitat types of northern Idaho: a second approximation. General Technical Report INT-236. U.S. Department of Agriculture, Forest Service, Intermountain Research Station, Ogden, UT. 143 p.
- Copeland, W. N. 1979. Harney Lake RNA Guidebook, Supplement #9. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.
- Crawford, R. C. and F. D. Johnson. 1985. Pacific yew dominance in tall forests, a classification dilemma. *Canadian Journal of Botany* 63: 592-602.
- Cronquist, A., A. H. Holmgren, N. H. Holmgren, J. L. Reveal, and P. K. Holmgren. 1977. Intermountain flora: vascular plants of the Intermountain West, U.S.A. Volume 6. Monocotyledons. Columbia Univ. Press, New York. 584 p.
- Cronquist, A., A. H. Holmgren, N. H. Holmgren, N. H. Holmgren, J. L. Reveal, and P. K. Holmgren. 1994. Intermountain flora: vascular plants of the Intermountain West, U.S.A. Volume 5. New York Botanical Garden. 496 p.
- Daubenmire, R. 1952. Forest vegetation of northern Idaho and adjacent Washington and its bearing on concepts of vegetation classification. *Ecol. Monogr.* 22: 301 - 330.
- Daubenmire, R. 1968. Plant communities: A textbook of plant synecology. Harper and Row, New York.
- Daubenmire, R. F. 1970. Steppe vegetation of Washington. Washington State University Agricultural Experiment Station Technical Bulletin No. 62. 131 p.
- Daubenmire, R. 1975. A survey of potential national landmarks, biotic themes, on the Columbia Plateau. Unpublished report prepared by U.S. Department of Interior, National Park Service. Department of Botany, Washington State University, Pullman.
- Daubenmire, R. F. and J. B. Daubenmire. 1968. Forest vegetation of eastern Washington and northern Idaho. Washington State University Agricultural Experiment Station Technical Bulletin No. 60. 104 p.
- Day, T. A. and R. G. Wright. 1985. The vegetation types of Craters of the Moon National Monument. Forestry, Wildlife, and Range Experiment Station Bulletin No. 38. University of Idaho, Moscow. 6 p.

- Dealy, J. E. 1975. Ecology of curl-leaf mahogany (*Cercocarpus ledifolius* Nutt.) in Oregon and adjacent areas. Dissertation, Oregon State University, Corvallis. 168 p.
- Del Moral, R. 1979. High elevation vegetation of the Enchantment Lakes Basin, Washington. *Canadian Journal of Botany* 57(10): 1111-1130.
- Doremus, J. and A. DeBolt. 1987. The distribution, monitoring and observed impacts on *Lepidium davisii* in the Kuna Planning Unit. Unpublished report on file at: U.S. Department of Interior, Bureau of Land Management, Boise District Office, Boise, ID. 11 p.
- Douglas, G. W. and L. C. Bliss. 1977. Alpine and high subalpine plant communities of the North Cascades Range, Washington and British Columbia. *Ecological Monographs* 47: 113-150.
- Driscoll, R. S. 1964. Vegetation-soil units in the central Oregon juniper zone. Research Paper PNW-19. U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, OR. 60 pp.
- Dyrness, C. T., J. F. Franklin, C. Maser, S. A. Cook, J. D. Hall, and G. Faxon. 1975. Research Natural Area needs in the Pacific Northwest. General Technical Report PNW-38. U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, OR. 231 p.
- Evenden, A. G. 1989. Ecology and distribution of riparian vegetation in the Trout Creek Mountains of southeastern Oregon. Thesis, Oregon State University, Portland. 128 p.
- Federal Geographic Data Committee-Vegetation Subcommittee. 1996. Vegetation classification and information standards. U.S. Department of the Interior, Geological Survey, Reston, VA.
- Forest Ecosystem Management Assessment Team (FEMAT). 1993. Forest ecosystem management: an ecological, economical, and social assessment. Joint publication of the U.S. Department of Agriculture, Forest Service, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, National Marine Fisheries Service, U.S. Department of the Interior, Bureau of Land Management, U.S. Department of the Interior, Fish and Wildlife Service, U.S. Department of the Interior, National Park Service, and U.S. Environmental Protection Agency, Washington, DC.
- Forest Service Manual 4063 Research Natural Areas. 1994. U.S. Department of Agriculture, Forest Service, Research, Washington, DC.
- Franklin, J. F. 1966. Vegetation and soils in the subalpine forests of the southern Washington Cascade range. Dissertation, Washington State University, Pullman. 132 p.
- Franklin, J. F., R. E. Jenkins, and R. M. Romancier. 1972. Research Natural Areas: contributions to environmental quality programs. *Journal of Environmental Quality* 1(2): 133 - 139.
- French, N. R. and J. E. Mitchell. 1983. Long-term vegetation changes in permanent quadrats at the Idaho National Engineering Laboratory. Forestry, Wildlife, and Range Experiment Station Bulletin Number 36, University of Idaho, Moscow. 42 p.
- Grossman, D. H., K. L. Goodin, and C. L. Reuss, eds. 1994. Rare plant communities of the conterminous United States—an initial survey. Prepared for the USDI Fish and Wildlife Service. The Nature Conservancy, Arlington, VA. 620 p.
- Habeck, J. 1979. Slow progress: a report on Research Natural Areas. *Western Wildlands*, Spring. 4 p.
- Hall, F. C. 1973. Plant communities of the Blue Mountains in Eastern Oregon and Southeastern Washington. R6-8200-1. U.S. Department of Agriculture, Forest Service, Pacific Northwest Region, Portland, OR. 46 p.
- Hall, F. C. 1988. Pacific Northwest ecoclass codes for plant associations. R6 Ecol. Tech. Paper 289-87. U.S. Department of Agriculture, Forest Service, Pacific Northwest Region, Portland, OR. 164 p.
- Hansen, P. L., R. D. Pfister, K. Boggs, B. J. Cook, J. Joy, and D. K. Hinckley. 1995. Classification and Management of Montana's Riparian and Wetland Sites. Montana Forest and Conservation Experiment Station, School of Forestry, Missoula, MT. 646 pp.
- Haufler, J. B. 1994. An ecological framework for planning for forest health. *Journal of Sustainable Forestry* 3/4: 307-316.
- Haufler, J. B. and L. L. Irwin. 1993. An ecological basis for forest planning for biodiversity and resource use. *Proc. Internatl. Union Game Biol.* Halifax.
- Hironaka, M., M. A. Fosberg, and A. H. Winward. 1983. Sagebrush-grass habitat types of southern Idaho. Forestry, Wildlife, and Range Experiment Station Bulletin No. 15, University of Idaho, Moscow. 44 p.
- Hitchcock, C. L. and A. Cronquist. 1973. Flora of the Pacific Northwest: an illustrated manual. University of Washington Press, Seattle, WA.
- Hunter, M. L. 1991. Coping with ignorance: the coarse-filter strategy for maintaining biodiversity. In: K. A. Kohm, ed. *Balancing on the brink of extinction, the endangered species act and lessons for the future*. Island Press, Washington, DC.
- Huschle, G. 1975. Analysis of the vegetation along the middle and lower Snake River. Thesis, University of Idaho, Moscow. 271 p.
- Huston, M. A. 1994. Biological diversity: the coexistence of species on changing landscapes. Cambridge University Press, New York.
- Idaho Conservation Data Center, Department of Fish and Game. 1996. Community element occurrence record database. Boise, ID.
- Jankovsky-Jones, M., S. K. Rust, and R. K. Moseley. 1999. Riparian reference areas in Idaho: a catalog of plant associations and conservation sites. General Technical Report RMRS-GTR-20. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Ogden, UT. 141 pp.
- Jensen, M. E., L. S. Peck, and M. V. Wilson. 1988. A sagebrush community type classification for mountainous northeastern Nevada rangelands. *Great Basin Naturalist* 48(4): 422-433.
- Jensen, S. 1990. Wetlands delineation, Moose Meadow Ranch, Fremont County, Idaho. White Horse Associates, Smithfield, UT. 17 p.
- Johnson, Charles G. and Steven A. Simon. 1987. Plant associations of the Wallowa-Snake province. R6-ECOL-TP-255A-86. U.S. Department of Agriculture, Forest Service, Wallowa-Whitman National Forest. Baker City, OR. 400 p. plus appendices.
- Johnson, J. L. and R. D. Pfister. 1981. A survey of potential ecological natural landmarks of the Northern Rocky Mountains. Unpublished report prepared for U.S. Department of the Interior, National Park Service. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. Ogden, UT. 416 p.
- Johnson, J. L. and R. D. Pfister. 1982. A survey of potential ecological natural landmarks of the middle Rocky Mountains. Unpublished report prepared for U.S. Department of the Interior, National Park Service. U.S. Department of Agriculture,

- Forest Service, Intermountain Forest and Range Experiment Station. Ogden, UT. 197 p.
- Johnston, B. C. 1987. Plant associations of Region Two. Edition 4. R2-Ecol-87-2. U.S. Department of Agriculture, Forest Service, Rocky Mountain Region, Lakewood, CO. 429 p.
- Kauffman, J. B., W. C. Krueger, and M. Vavra. 1985. Ecology and plant communities of the riparian area associated with Catherine Creek in northeastern Oregon. Agricultural Experiment Station Technical Bulletin 147. Oregon State University, Corvallis. 35 p.
- Komarkova, V. 1986. Habitat types on selected parts of the Gunnison and Uncompahgre National Forests. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. 270 p.
- Kovalchik, B. L. 1987. Riparian zone associations: Deschutes, Ochoco, Fremont, and Winema National Forests. Region 6 Ecology Technical Paper 279-87. U.S. Department of Agriculture, Forest Service, Pacific Northwest Region, Portland, OR. 171 p.
- Kovalchik, B. L. 1993. Riparian plant associations on the National Forests of eastern Washington- Draft version 1. U.S. Department of Agriculture, Forest Service, Colville National Forest, Colville, WA. 203 p.
- Lewis, M. E. 1971. Flora and major plant communities of the Ruby-East Humboldt Mountains with special emphasis on Lamoille Canyon. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Intermountain Region, Ogden, Utah. 62 p.
- Lewis, M. E. and R. Riegelhuth. 1964. Sawtooth Mountain study area: ecology and vegetation. Study report No. 2. U.S. Unpublished report prepared for U.S. Department of the Interior, National Park Service and U.S. Department of Agriculture, Forest Service, Intermountain Region, Ogden, UT. 25 p.
- Lichthardt, J. J. 1992. Vegetation of Lower and Middle Cottonwood Islands Research Natural Area / Area of Critical Environmental Concern and establishment of photopoints for long-term monitoring. Idaho Bureau of Land Management Technical Bulletin No. 92-1. Boise, ID. 12 p.
- Mackey, B. G., H. A. Nix, M. F. Hutchinson, J. P. MacMahon, and P. M. Fleming. 1988. Assessing representativeness of places for conservation reservation and heritage listing. *Environmental Management* 12: 501 - 514.
- Manning, M. E. and W. G. Padgett. 1995. Riparian community type classification for the Humboldt and Toiyabe National Forests, Nevada and eastern California. R4-Ecol-95-01. U.S. Department of Agriculture, Forest Service, Intermountain Region, Ecology and Classification Program, Ogden, UT. 167 p. plus appendices.
- Mattson, D. J. 1984. Classification and environmental relationships of wetland vegetation in central Yellowstone National Park. Thesis, University of Idaho, Moscow. 409 p.
- Mauk, R. L. and J. A. Henderson. 1984. Coniferous forest habitat types of northern Utah. General Technical Report INT-170. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experimental Station, Ogden, UT. 89 p.
- McLean, A. 1970. Plant communities of the Similkameen Valley British Columbia, and their relationships to soils. *Ecological Monographs* 40(4): 403-424.
- McNab, W. H. and P. E. Avers, comps. 1994. Ecological subregions of the United States: section descriptions. Administrative Publication WO-WSA-5. Washington, DC: U. S. Department of Agriculture, Forest Service. 267 p.
- Merigliano, M. F. 1996. Ecology and management of the South Fork Snake River cottonwood forest. Cooperative Challenge Cost-share Project, Idaho State Office BLM, The Nature Conservancy of Idaho, Upper Snake River Chapter Trout Unlimited and The School of Forestry, University of Montana, Missoula. 79 p.
- Miller, T. B. 1976. Ecology of riparian communities dominated by white alder in western Idaho. Thesis, University of Idaho, Moscow. 154 p.
- Moir, W. H. 1972. Natural areas. *Science* 177: 396 - 400.
- Morgan P., G. H. Aplet, J. B. Haufler, H. C. Humphries, M. M. Moore, and W. D. Wilson. 1994. Historic range of variability: a useful tool for evaluating ecosystem change. In: R. H. Sampson and D. L. Adams, eds. *Assessing for ecosystem health in the Inland West*. *Journal of Sustainable Forestry* 2(1/2): 87 - 111.
- Moseley, R. K. 1985. Synecological relationships of alpine spike-fescue grasslands in east-central Idaho. Thesis, University of Idaho, Moscow. 70 p.
- Moseley, R. K. 1986. Field notes from Garden Creek (Craig Mountain) regarding plant communities along Corral Creek. Note and map on file at Idaho Department of Fish and Game, Conservation Data Center, Boise, ID.
- Moseley, R. K. 1987a. Area of critical environmental concern and Research Natural Area recommendation for Malm Gulch and Germer Basin, Bureau of Land Management, Salmon District, Idaho.
- Moseley, R. K. 1987b. Research Natural Area / Area of Critical Environmental Concern recommendation for The Badlands. Unpublished report to the Boise District, BLM. 6 p.
- Moseley, R. K. 1987c. Idaho Preserve design package: Formation Spring, Caribou County, ID. 9 p.
- Moseley, R. K. 1987d. Research Natural Area / Area of Critical Environmental Concern Recommendation for Jump Creek Canyon. Unpublished report for the Boise District BLM, Owyhee Resource Area. 6 pp.
- Moseley, R. K. and R. J. Bursik. 1994. Black cottonwood communities of Spion Kop Research Natural Area, Coeur d'Alene River, Idaho. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Idaho Panhandle National Forests, Coeur d'Alene, ID. 14 p. plus appendices.
- Moseley, R. K., R. J. Bursik, and M. Mancuso. 1991. Floristic inventory of wetlands in Fremont and Teton counties, Idaho. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 60 p. plus appendices.
- Mueggler, W. F. 1988. Aspen community types of the Intermountain Region. General Technical Report INT-250. U.S. Department of Agriculture, Forest Service, Intermountain Research Station, Ogden, UT. 135 p.
- Mueggler, W. F. and R. B. Cambell. 1982. Aspen community types on the Caribou and Targhee National Forests in southeastern Idaho. Research Paper INT-362. U.S. Department of Agriculture, Forest Service, Intermountain Research Station, Ogden, UT.
- Mueggler, W. F. and W. L. Stewart. 1980. Grassland and shrubland habitat types of western Montana. General Technical Report INT-66. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station, Ogden, UT. 155 p.

- Mutz, K. M. and J. Queiroz. 1983. Riparian community classification for the Centennial Mountains and South Fork Salmon River, Idaho. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Intermountain Region, under contract 53-84M8-2-0048 by Meiji Resource Consultants, Layton, UT. 168 p.
- Nelson, L. P. and M. E. Jensen. 1987. Sagebrush-grass community types of the Humboldt National Forest. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Humboldt National Forest, Elko, NV. 80 p. plus appendices.
- Norse, E. A., K. L. Rosenbaum, D. S. Wilcove, B. A. Wilcox, W. H. Romme, D. W. Johnston, and M. L. Stout. 1986. Conserving biological diversity in our National Forests. Prepared by the Ecological Society of America for The Wilderness Society. 116 p.
- Noss, R. F., E. T. LaRoe, and J. M. Scott. 1995. Endangered ecosystems of the United States: a preliminary assessment of loss and degradation. USDI National Biological Service Biological Report 28. Washington, DC. 58 p.
- Oregon Natural Heritage Council. 1993. Oregon Natural Heritage Plan. Natural Heritage Advisory Council, State Land Board, Salem.
- Padgett, W. G., A. P. Youngblood, and A. H. Winward. 1989. Riparian community type classification of Utah and southeastern Idaho. R4-Ecol-89-01. U.S. Department of Agriculture, Forest Service, Intermountain Region, Ogden, UT. 191 p.
- Pfister, R. D., B. L. Kovalchik, S. F. Arno, and R. C. Presby. 1977. Forest habitat types of Montana. General Technical Report, INT-34. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station, Ogden, UT. 174 p.
- Reid, Marion, Bob Moseley, Jim Menakis, Jimmy Kegan, Mark Jensen, Hope Humphries, Lisa Engelking, Rex Crawford, Steve Cooper, and Patrick Bourgeron. 1995. Documentation of the modeling of potential vegetation at three spatial scales using biophysical settings in the Columbia River Basin assessment area. Compiled and edited by Marion Reid, Patrick Bourgeron, Hope Humphries, and Mark Jensen. Part I: Text; Part II: Appendices. Unpublished report prepared for U.S. Department of Agriculture, Forest Service. Western Heritage Task Force, The Nature Conservancy, Boulder, CO.
- Reznicek, A. A. 1987. Key to *Carex rostrata* complex in North America. Unpublished report on file at Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 3 p.
- Rosentreter, R., and R. G. Kelsey. 1991. Xeric big sagebrush, a new subspecies in the *Artemisia tridentata* complex. *Journal of Range Management* 44(4): 330-335.
- Rust, S. K. 1996. Natural plant communities of Idaho, a working list for the conservation of biological diversity. Idaho Conservation Data Center, Idaho Department of Fish and Game, Boise. 14 p.
- Rust, S. K. 1997. Community concepts and applications for conservation. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Northern Region, Intermountain Region and Intermountain Research Station. Conservation Data Center, Idaho Department of Fish and Game, Boise. 67 p.
- Rust, S. K. 1999. Pinyon-juniper woodland classification and description in Research Natural Areas of southeastern Idaho. In: Monson, S. B. and R. Stevens. *Proceedings: ecology and management of pinyon-juniper communities within the Interior West*; 1997 September 15-18, Provo, UT. *Proceedings RMRS-P-9*. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Ogden, UT: 82-93.
- Ryan, M. G., L. A. Joyce, T. Andrews, and K. Jones. 1994. Research Natural Areas in Colorado, Nebraska, North Dakota, South Dakota, and parts of Wyoming. General Technical Report RM-251. U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. 57 p.
- Sawyer, J. O. and T. Keeler-Wolf. 1995. A manual of California vegetation. California Native Plant Society, Sacramento.
- Shanklin, J. F. 1960. Society of American Foresters Natural Areas. *Journal of Forestry* 58(11). 13 p.
- Schlatterer, E. F. 1972. A preliminary description of plant communities found on the Sawtooth, White Cloud, Boulder, and Pioneer Mountains. Unpublished report prepared for U.S. Department of Agriculture, Forest Service, Intermountain Region, Ogden UT. 111 p.
- Steele, R. W. 1971. Red alder habitats in Clearwater County, Idaho. Thesis, University of Idaho, Moscow. 88 p.
- Steele, R., R. D. Pfister, R. A. Ryker, and J. A. Kittams. 1981. Forest habitat types of central Idaho. General Technical Report INT-114. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station, Ogden, UT. 138 p.
- Steele, R., S. V. Cooper, D. M. Ondov, D. W. Roberts, and R. D. Pfister. 1983. Forest habitat types of eastern Idaho-western Wyoming. General Technical Report INT-144. U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station, Ogden, UT. 122 p.
- Swanson, F. J., J. A. Jones, D. O. Wallin, and J. H. Cissel. 1994. Natural variability—implications for ecosystem management. In: Jensen, M. E. and P. S. Bourgeron, tech. eds. 1994. Volume II: Ecosystem management: principles and applications. General Technical Report PNW-GTR-318. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR. 376 p.
- The Nature Conservancy. 1982. Natural Heritage Program Operations Manual. The Nature Conservancy, Arlington, VA.
- Tisdale, E. W. 1986. Canyon grasslands and associated shrublands of west-central Idaho and adjacent areas. Bulletin Number 40; Forest, Wildlife and Range Experiment Station; Moscow. 42 p.
- Tuhy, J. S. 1981. Stream bottom community classification for the Sawtooth Valley, Idaho. Thesis, University of Idaho, Moscow. 230 p.
- Tuhy, J. S. and S. Jensen. 1982. Riparian classification for the Upper Salmon and Middle Fork Salmon River drainages, Idaho. Unpublished report prepared for the U.S. Department of Agriculture, Forest Service, Intermountain Region, by White Horse Associates, Smithfield, UT. 183 p.
- U.S. Department of Agriculture, Forest Service. 1981. The Northern Regional Plan. U.S. Department of Agriculture, Forest Service, Northern Region, Missoula, MT.
- U. S. Department of Agriculture, Forest Service. 1984. Regional Guide for the Intermountain Region Northern Regional Plan. U. S. Department of Agriculture, Forest Service, Intermountain Region, Ogden.

- Urbanczyk, Stephan M. 1993. Classification and ordination of alpine plant communities, Sheep Mountain, Lemhi County, Idaho. Thesis, University of Idaho, Moscow.
- Wellner, C. A. 1985. Note dated June 10 to Bob Steele, Intermountain Research Station, Ogden, UT, regarding the ponderosa pine/pinegrass community observed in Little Granite Creek proposed RNA. 1 p.
- Wellner, C. A. 1986. Why natural areas? In: Loop, D. J. and J. R. Bird, eds. Montana Natural Areas, conference proceedings, October 14 - 16, 1986, Billings, MT. The Nature Conservancy, Helena.
- Wellner, C. A. 1989. Classification of habitat types in the Western United States. In: Ferguson, D. E., P. Morgan, and F. Johnson, comps. Proceedings-land classifications based on vegetation: applications for resource management; 1987 November 17-19; Moscow, ID. General Technical Report INT-257. U.S. Department of Agriculture, Forest Service, Intermountain Research Station, Ogden, UT. 315 p.
- Wellner, C. A. 1991a. Establishment record for Middle Canyon Research Natural Area within Challis National Forest, Butte County, Idaho. U.S. Department of Agriculture, Forest Service. 26 p.
- Wellner, C. A. 1991b. Establishment record for Smiley Mountain Research Natural Area within Challis National Forest, Custer County, Idaho. U.S. Department of Agriculture, Forest Service. 26 p.
- Wellner, C. A. and S. J. Bernatas. 1991. Establishment Record for Thurmon Creek Research Natural Area within Targhee National Forest, Fremont County, Idaho. U.S. Department of Agriculture, Forest Service. 23 p. plus maps and appendices.
- Wellner, C. A. and F. D. Johnson, eds. 1974. Research Natural Area needs in Idaho: a first estimate. Report of the Natural Areas Workshop; 1974 April 24-25; Boise, ID. Moscow, ID: College of Forestry, Wildlife and Range Sciences. 179 p.
- Wellner, C. A. and R. K. Moseley. 1988a. Establishment record for Five Lakes Butte Research Natural Area within St. Joe National Forest, Shoshone County, Idaho. U.S. Department of Agriculture, Forest Service. 19 p.
- Wellner, C. A. and R. K. Moseley. 1988b. Establishment record for Basin Gulch Research Natural Area within Sawtooth National Forest, Blaine County, Idaho. U.S. Department of Agriculture, Forest Service. 18 p.
- Wellner, C. A., and R. K. Moseley. 1988d. Establishment record for No Business Creek Research Natural Area within Nez Perce National Forest, Idaho County, Idaho. U.S. Department of Agriculture, Forest Service. 25 pp.
- Wellner, C. A. and E. W. Tisdale. 1985. Coverage of natural diversity in northern, central, and southern Idaho within established and proposed Research Natural Areas and equivalents. Unpublished report prepared for Idaho Natural Areas Coordinating Committee on file at Idaho Department of Fish and Game, Conservation Data Center, Boise, ID.
- Williams, C. K. and B. G. Smith. 1991. Forested plant associations of the Wenatchee National Forest - Draft. Wenatchee National Forest, Wenatchee, WA.
- Winward, A. H. and E. W. Tisdale. 1977. Taxonomy of the *Artemisia tridentata* complex in Idaho. University of Idaho, College of Forestry, Wildlife and Range Sciences Bulletin 19. Moscow. 15 p.
- Youngblood, A. P., W. G. Padgett, and A. H. Winward. 1985. Riparian community type classification of eastern Idaho - western Wyoming. R4-Ecol-85-01. U.S. Department of Agriculture, Forest Service, Intermountain Region, Ogden, UT. 78 pp.

Table 1. Plant associations and community types known or expected to occur in Idaho listed by National Vegetation Classification subclass.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
Evergreen forest		<i>Pinus flexilis</i> phase	Mauk and Henderson 1984
<i>Abies grandis</i> / <i>Acer glabrum</i>	Steele and others 1981	<i>Pseudotsuga menziesii</i> phase	Mauk and Henderson 1984
<i>Acer glabrum</i> phase	Steele and others 1981	<i>Ribes montigenum</i> phase	Mauk and Henderson 1984
<i>Physocarpus malvaceus</i> phase	Steele and others 1981	<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i>	Steele and others 1981
<i>Abies grandis</i> / <i>Adiantum pedatum</i> ^a	Wellner and Moseley 1988d	<i>Calamagrostis canadensis</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Asarum caudatum</i>	Cooper and others 1991	<i>Ligusticum canbyi</i> phase	Steele and others 1981
<i>Asarum caudatum</i> phase	Cooper and others 1991	<i>Vaccinium caespitosum</i> phase	Steele and others 1981
<i>Menziesia ferruginea</i> phase	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i>	Steele and others 1981
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	Steele and others 1981	<i>Calamagrostis rubescens</i> phase	Steele and others 1983
<i>Clintonia uniflora</i> phase	Cooper and others 1991	<i>Pachistima myrsinites</i> phase	Steele and others 1983
<i>Menziesia ferruginea</i> phase	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Caltha biflora</i>	Steele and others 1981
<i>Physocarpus malvaceus</i> phase	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	Steele and others 1981
<i>Xerophyllum tenax</i> phase	Cooper and others 1991	<i>Artemisia tridentata vaseyana</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Coptis occidentalis</i>	Steele and others 1981	<i>Carex geyeri</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Linnaea borealis</i>	Steele and others 1981	<i>Abies lasiocarpa</i> / <i>Carex rossii</i>	Steele and others 1983
<i>Linnaea borealis</i> phase	Steele and others 1981	<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	Steele and others 1981
<i>Vaccinium globulare</i> phase	Steele and others 1981	<i>Clintonia uniflora</i> phase	Steele and others 1981
<i>Xerophyllum tenax</i> phase	Steele and others 1981	<i>Menziesia ferruginea</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	Cooper and others 1991	<i>Xerophyllum tenax</i> phase	Cooper and others 1991
<i>Coptis occidentalis</i> phase	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Coptis occidentalis</i>	Steele and others 1981
<i>Physocarpus malvaceus</i> phase	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	Steele and others 1981
<i>Abies grandis</i> / <i>Senecio triangularis</i>	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Linnaea borealis</i>	Steele and others 1981
<i>Abies grandis</i> / <i>Spiraea betulifolia</i>	Steele and others 1981	<i>Linnaea borealis</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Asarum caudatum</i>	Crawford and Johnson 1985	<i>Vaccinium scoparium</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Clintonia uniflora</i>	Crawford and Johnson 1985	<i>Xerophyllum tenax</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Vaccinium caespitosum</i>	Steele and others 1981	<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	Steele and others 1981
<i>Abies grandis</i> / <i>Vaccinium globulare</i>	Steele and others 1981	<i>Luzula hitchcockii</i> phase	Steele and others 1981
<i>Abies grandis</i> / <i>Xerophyllum tenax</i>	Steele and others 1981	<i>Vaccinium scoparium</i> phase	Steele and others 1981
<i>Coptis occidentalis</i> phase	Cooper and others 1991	<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	Steele and others 1981
<i>Vaccinium globulare</i> phase	Cooper and others 1991	<i>Coptis occidentalis</i> phase	Cooper and others 1991
<i>Abies lasiocarpa</i> / <i>Acer glabrum</i>	Steele and others 1981	<i>Luzula hitchcockii</i> phase	Cooper and others 1991
<i>Pachistima myrsinites</i> phase	Steele and others 1983	<i>Menziesia ferruginea</i> phase	Steele and others 1983
<i>Abies lasiocarpa</i> / <i>Actaea rubra</i>	Steele and others 1983	<i>Vaccinium scoparium</i> phase	Cooper and others 1991
<i>Abies lasiocarpa</i> / <i>Alnus sinuata</i>	Steele and others 1981	<i>Xerophyllum tenax</i> phase	Cooper and others 1991
<i>Abies lasiocarpa</i> / <i>Arnica cordifolia</i>	Steele and others 1981	<i>Abies lasiocarpa</i> / <i>Oplopanax horridum</i>	Pfister and others 1977
<i>Arnica cordifolia</i> phase	Steele and others 1983	<i>Abies lasiocarpa</i> / <i>Osmorhiza chilensis</i>	Steele and others 1983
<i>Astragalus miser</i> phase	Steele and others 1983	<i>Osmorhiza chilensis</i> phase	Steele and others 1983
<i>Picea engelmannii</i> phase	Steele and others 1983	<i>Pachistima myrsinites</i> phase	Steele and others 1983
<i>Shepherdia canadensis</i> phase	Steele and others 1983		
<i>Abies lasiocarpa</i> / <i>Arnica latifolia</i>	Steele and others 1983		
<i>Abies lasiocarpa</i> / <i>Berberis repens</i>	Steele and others 1983		
<i>Berberis repens</i> phase	Steele and others 1983		
<i>Carex geyeri</i> phase	Steele and others 1983		

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Abies lasiocarpa</i> / <i>Pedicularis racemosa</i>	Steele and others 1983	<i>Picea engelmannii</i> / <i>Caltha leptosepala</i>	Steele and others 1983
<i>Pedicularis racemosa</i> phase	Mauk and Henderson 1984	<i>Picea engelmannii</i> / <i>Carex disperma</i>	Steele and others 1981
<i>Pseudotsuga menziesii</i> phase	Mauk and Henderson 1984	<i>Picea engelmannii</i> / <i>Equisetum arvense</i>	Steele and others 1981
<i>Abies lasiocarpa</i> / <i>Physocarpus malvaceus</i>	Steele and others 1983	<i>Picea engelmannii</i> / <i>Galium trifolium</i>	Steele and others 1981
<i>Abies lasiocarpa</i> / <i>Polemonium pulcherrimum</i>	Johnson and Simon 1987	<i>Picea engelmannii</i> / <i>Hypnum revolutum</i>	Steele and others 1981
<i>Abies lasiocarpa</i> / <i>Rhododendron albiflorum</i> ^a	Wellner and Tisdale 1985	<i>Picea engelmannii</i> / <i>Juniperus communis</i>	Steele and others 1983
<i>Abies lasiocarpa</i> / <i>Ribes montigenum</i>	Steele and others 1981	<i>Picea engelmannii</i> / <i>Ribes montigenum</i>	Steele and others 1983
<i>Pinus albicaulis</i> phase	Steele and others 1983	<i>Picea glauca</i> / <i>Carex disperma</i>	Tuhy and Jensen 1982
<i>Ribes montigenum</i> phase	Steele and others 1983	<i>Picea glauca</i> / <i>Carex utriculata</i>	Jensen 1990
<i>Thalictrum fendleri</i> phase	Mauk and Henderson 1984	<i>Picea glauca</i> / <i>Equisetum arvense</i>	Jensen 1990
<i>Abies lasiocarpa</i> / <i>Spiraea betulifolia</i>	Steele and others 1981	<i>Pinus albicaulis</i> / <i>Carex rossii</i>	Steele and others 1983
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	Steele and others 1981	<i>Pinus contorta</i> phase	Steele and others 1983
<i>Ligusticum canbyi</i> phase	Steele and others 1983	<i>Pinus albicaulis</i> / <i>Vaccinium scoparium</i>	Steele and others 1983
<i>Menziesia ferruginea</i> phase	Cooper and others 1991	<i>Pinus contorta</i> / <i>Arnica cordifolia</i>	Steele and others 1983
<i>Streptopus amplexifolius</i> phase	Steele and others 1983	<i>Pinus contorta</i> / <i>Calamagrostis rubescens</i>	Steele and others 1983
<i>Abies lasiocarpa</i> / <i>Symphoricarpos albus</i>	Steele and others 1983	<i>Pinus contorta</i> / <i>Spiraea betulifolia</i>	Steele and others 1983
<i>Abies lasiocarpa</i> / <i>Thalictrum occidentale</i>	Steele and others 1983	<i>Pinus contorta</i> / <i>Vaccinium caespitosum</i>	Steele and others 1981
<i>Abies lasiocarpa</i> / <i>Vaccinium caespitosum</i>	Steele and others 1981	<i>Pinus contorta</i> / <i>Vaccinium globulare</i>	Steele and others 1983
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i>	Steele and others 1981	<i>Pinus contorta</i> / <i>Vaccinium</i>	Tuhy and Jensen 1982
<i>Pachistima myrsinites</i> phase	Steele and others 1983	<i>Pinus contorta</i> / <i>Vaccinium scoparium</i>	Steele and others 1981
<i>Vaccinium globulare</i> phase	Steele and others 1981	<i>Pinus contorta</i> / <i>Xerophyllum tenax</i>	Cooper and others 1991
<i>Vaccinium scoparium</i> phase	Steele and others 1981	<i>Pinus ponderosa</i> / <i>Calamagrostis rubescens</i> ^a	Wellner 1985
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	Steele and others 1981	<i>Pinus ponderosa</i> / <i>Physocarpus malvaceus</i>	Steele and others 1981
<i>Arnica latifolia</i> phase	Mauk and Henderson 1984	<i>Pinus ponderosa</i> / <i>Symphoricarpos albus</i>	Steele and others 1981
<i>Calamagrostis rubescens</i> phase	Steele and others 1981	<i>Pinus ponderosa</i> / <i>Symphoricarpos oreophilus</i>	Steele and others 1981
<i>Pinus albicaulis</i> phase	Steele and others 1981	<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	Steele and others 1981
<i>Vaccinium scoparium</i> phase	Steele and others 1981	<i>Acer glabrum</i> phase	Steele and others 1981
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	Steele and others 1981	<i>Symphoricarpos oreophilus</i> phase	Steele and others 1981
<i>Coptis occidentalis</i> phase	Cooper and others 1991	<i>Pseudotsuga menziesii</i> / <i>Arnica cordifolia</i>	Steele and others 1981
<i>Luzula hitchcockii</i> phase	Steele and others 1981	<i>Arnica cordifolia</i> phase	Steele and others 1981
<i>Vaccinium globulare</i> phase	Steele and others 1981	<i>Astragalus miser</i> phase	Steele and others 1981
<i>Vaccinium scoparium</i> phase	Steele and others 1981		
<i>Picea engelmannii</i> / <i>Arnica cordifolia</i>	Steele and others 1983		
<i>Picea engelmannii</i> / <i>Calamagrostis canadensis</i>	Youngblood and others 1985		

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Pseudotsuga menziesii/Berberis repens</i>	Steele and others 1981	<i>Menziesia ferruginea</i> phase	Cooper and others 1991
<i>Berberis repens</i> phase	Steele and others 1981	<i>Taxus brevifolia</i> phase	Cooper and others 1991
<i>Carex geyeri</i> phase	Steele and others 1981	<i>Thuja plicata/Athyrium filix-femina</i>	Cooper and others 1991
<i>Symphoricarpos oreophilus</i> phase	Steele and others 1981	<i>Adiantum pedatum</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	Steele and others 1981	<i>Athyrium filix-femina</i> phase	Cooper and others 1991
<i>Arctostaphylos uva-ursi</i> phase	Cooper and others 1991	<i>Thuja plicata/Clintonia uniflora</i>	Cooper and others 1991
<i>Calamagrostis rubescens</i> phase	Steele and others 1981	<i>Clintonia uniflora</i> phase	Cooper and others 1991
<i>Festuca idahoensis</i> phase	Steele and others 1981	<i>Menziesia ferruginea</i> phase	Cooper and others 1991
<i>Pachistima myrsinites</i> phase	Steele and others 1983	<i>Taxus brevifolia</i> phase	Cooper and others 1991
<i>Pinus ponderosa</i> phase	Steele and others 1981	<i>Xerophyllum tenax</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Carex geyeri</i>	Steele and others 1981	<i>Thuja plicata/Dryopteris</i> spp.	Steele 1971
<i>Carex geyeri</i> phase	Steele and others 1981	<i>Thuja plicata/Gymnocarpium dryopteris</i>	Cooper and others 1991
<i>Pinus ponderosa</i> phase	Steele and others 1981	<i>Thuja plicata/Lysichitum americanum</i> ^b	Franklin 1966
<i>Symphoricarpos oreophilus</i> phase	Steele and others 1981	<i>Thuja plicata/Oplopanax horridum</i>	Cooper and others 1991
<i>Pseudotsuga menziesii/Juniperus communis</i>	Steele and others 1981	<i>Tsuga heterophylla/Asarum caudatum</i>	Cooper and others 1991
<i>Pseudotsuga menziesii/Linnaea borealis</i>	Steele and others 1981	<i>Aralia nudicaulis</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	Steele and others 1981	<i>Asarum caudatum</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	Steele and others 1981	<i>Menziesia ferruginea</i> phase	Cooper and others 1991
<i>Calamagrostis rubescens</i> phase	Steele and others 1981	<i>Tsuga heterophylla/Clintonia uniflora</i>	Cooper and others 1991
<i>Pachistima myrsinites</i> phase	Steele and others 1983	<i>Aralia nudicaulis</i> phase	Cooper and others 1991
<i>Physocarpus malvaceus</i> phase	Cooper and others 1991	<i>Clintonia uniflora</i> phase	Cooper and others 1991
<i>Pinus ponderosa</i> phase	Steele and others 1981	<i>Menziesia ferruginea</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii</i> phase	Steele and others 1981	<i>Xerophyllum tenax</i> phase	Cooper and others 1991
<i>Smilacina stellata</i> phase	Cooper and others 1991	<i>Tsuga heterophylla/Gymnocarpium dryopteris</i>	Cooper and others 1991
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	Steele and others 1981	<i>Tsuga heterophylla/Menziesia ferruginea</i>	Cooper and others 1991
<i>Calamagrostis rubescens</i> phase	Steele and others 1981	<i>Tsuga mertensiana/Clintonia uniflora</i>	Cooper and others 1991
<i>Pinus ponderosa</i> phase	Steele and others 1981	<i>Menziesia ferruginea</i> phase	Cooper and others 1991
<i>Spiraea betulifolia</i> phase	Steele and others 1981	<i>Xerophyllum tenax</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	Steele and others 1981	<i>Tsuga mertensiana/Luzula hitchcockii</i>	Cooper and others 1991
<i>Pinus ponderosa</i> phase	Steele and others 1981	<i>Tsuga mertensiana/Menziesia ferruginea</i>	Cooper and others 1991
<i>Symphoricarpos albus</i> phase	Steele and others 1981	<i>Luzula hitchcockii</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	Steele and others 1981	<i>Xerophyllum tenax</i> phase	Cooper and others 1991
<i>Pseudotsuga menziesii/Vaccinium caespitosum</i>	Steele and others 1981	<i>Tsuga mertensiana/Phyllodoce empetriformis</i> ^a	Wellner and Moseley 1988a
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	Steele and others 1981	<i>Tsuga mertensiana/Streptopus amplexifolius</i>	Cooper and others 1991
<i>Thuja plicata/Adiantum pedatum</i>	Cooper and others 1991	<i>Luzula hitchcockii</i> phase	Cooper and others 1991
<i>Thuja plicata/Asarum caudatum</i>	Cooper and others 1991	<i>Menziesia ferruginea</i> phase	Cooper and others 1991
<i>Asarum caudatum</i> phase	Cooper and others 1991	<i>Tsuga mertensiana/Xerophyllum tenax</i>	Cooper and others 1991
		<i>Luzula hitchcockii</i> phase	Cooper and others 1991

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Vaccinium globulare</i> phase	Cooper and others 1991	<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> /tall forb	Mueggler 1988
<i>Vaccinium scoparium</i> phase	Cooper and others 1991	<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> / <i>Thalictrum fendleri</i>	Mueggler 1988
<i>Xerophyllum tenax</i> phase	Cooper and others 1991	<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> /tall forb	Mueggler 1988
Deciduous forest		<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> / <i>Thalictrum fendleri</i>	Mueggler 1988
<i>Acer grandidentatum</i> / <i>Berberis repens</i> ^a	Johnson and Pfister 1982	<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> / <i>Thalictrum fendleri</i>	Mueggler 1988
<i>Acer grandidentatum</i> / <i>Calamagrostis rubescens</i> ^a	Caicco and Wellner 1983g	<i>Populus tremuloides</i> / <i>Artemisia tridentata</i>	Mueggler 1988
<i>Acer grandidentatum</i> / <i>Juniperus scopulorum</i> ^a	Wellner and Tisdale 1985	<i>Populus tremuloides</i> / <i>Bromus carinatus</i>	Mueggler 1988
<i>Acer grandidentatum</i> / <i>Osmorhiza chilensis</i> ^a	Wellner and Tisdale 1985	<i>Populus tremuloides</i> / <i>Calamagrostis canadensis</i> ^b	Hansen and others 1995
<i>Acer negundo</i> / <i>Cornus stolonifera</i>	Padgett and others 1989	<i>Populus tremuloides</i> / <i>Calamagrostis rubescens</i>	Mueggler 1988
<i>Acer negundo</i> / <i>Equisetum arvense</i>	Padgett and others 1989	<i>Populus tremuloides</i> / <i>Cornus stolonifera</i>	Hansen and others 1995
<i>Alnus rhombifolia</i> / <i>Amelanchier alnifolia</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Juniperus communis</i> / <i>Carex geyeri</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Betula occidentalis</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Rubus parviflorus</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Celtis reticulata</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Salix scouleriana</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Philadelphus lewisii</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Shepherdia canadensis</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Prunus virginiana</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Stipa comata</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Rhus glabra</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Bromus carinatus</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Rosa woodsii</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Calamagrostis rubescens</i>	Mueggler 1988
<i>Alnus rhombifolia</i> / <i>Sambucus cerulea</i>	Miller 1976	<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Carex rossii</i>	Mueggler 1988
<i>Alnus rubra</i> / <i>Adiantum pedatum</i>	Steele 1971	<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> /tall forb	Mueggler 1988
<i>Crataegus douglasii</i> - <i>Symphoricarpos albus</i> , <i>Populus tremuloides</i> phase	Daubenmire 1970	<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Thalictrum fendleri</i>	Mueggler 1988
<i>Populus angustifolia</i> / <i>Acer grandidentatum</i>	Padgett and others 1989	<i>Populus tremuloides</i> /tall forb	Mueggler 1988
<i>Populus angustifolia</i> / <i>Betula occidentalis</i>	Padgett and others 1989	<i>Populus tremuloides</i> / <i>Thalictrum fendleri</i>	Mueggler 1988
<i>Populus angustifolia</i> / <i>Chrysopsis villosa</i>	Merigiano 1996	<i>Populus tremuloides</i> / <i>Veratrum californicum</i>	Mueggler 1988
<i>Populus angustifolia</i> / <i>Elaeagnus commutata</i>	Merigiano 1996	<i>Populus tremuloides</i> / <i>Wyethia amplexicaulis</i>	Mueggler 1988
<i>Populus angustifolia</i> / <i>Rhus trilobata</i>	Padgett and others 1989		
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> / <i>Bromus carinatus</i>	Mueggler 1988		
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> / <i>Calamagrostis rubescens</i>	Mueggler 1988		

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Populus trichocarpa</i> / <i>Alnus incana</i> ^b	Kovalchik 1993	<i>Juniperus osteosperma</i> / <i>Artemisia tridentata</i> / <i>Agropyron spicatum</i> ^a	Caicco and Wellner 1983e
<i>Populus trichocarpa</i> / <i>Cicuta douglasii</i>	Daubenmire 1970	<i>Juniperus osteosperma</i> / <i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	Rust 1999
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	Tuhy and Jensen 1982	<i>Juniperus osteosperma</i> / <i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	Rust 1999
<i>Populus trichocarpa</i> / <i>Crataegus douglasii</i> ^c	Kauffman and others 1985	<i>Picea engelmannii</i> / <i>Cornus stolonifera</i>	Youngblood and others 1985
<i>Populus trichocarpa</i> / <i>Festuca idahoensis</i> ^c	Lichthardt 1992	<i>Pinus albicaulis</i> (timberline) ^a	Wellner and Tisdale 1985
<i>Populus trichocarpa</i> / <i>Recent Alluvial Bar</i> ^b	Hansen and others 1995	<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	Steele and others 1981
<i>Populus trichocarpa</i> / <i>Rhamnus alnifolia</i> ^a	Moseley and Bursik 1994	<i>Pinus albicaulis</i> / <i>Carex geyeri</i>	Steele and others 1983
<i>Populus trichocarpa</i> / <i>Rosa woodsii</i> ^b	Chadde and others 1988	<i>Pinus albicaulis</i> / <i>Festuca idahoensis</i>	Steele and others 1983
<i>Populus trichocarpa</i> / <i>Salix lutea</i> ^b	Manning and Padgett 1995	<i>Pinus albicaulis</i> / <i>Juniperus communis</i>	Steele and others 1983
<i>Populus trichocarpa</i> / <i>Symphoricarpos albus</i> ^a	Moseley and Bursik 1994	<i>Pinus albicaulis</i> / <i>Poa nervosa</i> ^a	Wellner and Moseley 1988b
Mixed evergreen-deciduous forest		<i>Pinus contorta</i> / <i>Festuca idahoensis</i>	Steele and others 1981
<i>Alnus rhombifolia</i> - <i>Abies grandis</i>	Miller 1976	<i>Pinus flexilis</i> (timberline) ^a	Wellner and Tisdale 1985
<i>Larix lyallii</i> - <i>Abies lasiocarpa</i>	Cooper and others 1991	<i>Pinus flexilis</i> / <i>Cercocarpus ledifolius</i>	Steele and others 1981
Evergreen woodland		<i>Pinus flexilis</i> / <i>Festuca idahoensis</i>	Steele and others 1981
<i>Abies grandis</i> / <i>Calamagrostis rubescens</i>	Steele and others 1981	<i>Pinus flexilis</i> / <i>Juniperus communis</i>	Steele and others 1981
<i>Abies lasiocarpa</i> - <i>Pinus albicaulis</i> / <i>Vaccinium scoparium</i>	Pfister and others 1977	<i>Pinus flexilis</i> / <i>Leucopoa kingii</i>	Steele and others 1981
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	Steele and others 1981	<i>Pinus flexilis</i> / <i>Potentilla fruticosa</i> / <i>Distichlis stricta stricta</i> ^a	Moseley 1986
<i>Juniperus occidentalis</i> / <i>Artemisia tridentata</i> vaseyana	Hall 1973	<i>Pinus flexilis</i> / <i>Purshia tridentata</i> ^c	Day and Wright 1985
<i>Juniperus occidentalis</i> / <i>Cercocarpus ledifolius</i> / <i>Symphoricarpos oreophilus</i>	Dealy 1975	<i>Pinus monophylla</i> - <i>Cercocarpus ledifolius</i> / <i>Holodiscus dumosus</i> / <i>Elymus cinereus</i>	Rust 1999
<i>Juniperus osteosperma</i> - <i>Cercocarpus ledifolius</i> / <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	Rust 1999	<i>Pinus monophylla</i> - <i>Cercocarpus ledifolius</i> / <i>Poa secunda</i>	Rust 1999
<i>Juniperus osteosperma</i> / <i>Artemisia arbuscula</i> <i>arbuscula</i> / <i>Agropyron spicatum</i>	Rust 1999	<i>Pinus monophylla</i> - <i>Cercocarpus ledifolius</i> / <i>Symphoricarpos oreophilus</i> - <i>Berberis repens</i> / <i>Agropyron spicatum</i>	Rust 1999
<i>Juniperus osteosperma</i> / <i>Artemisia arbuscula</i> <i>arbuscula</i> / <i>Festuca idahoensis</i>	Rust 1999	<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Agropyron spicatum</i>	Rust 1999
<i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Agropyron spicatum</i>	Rust 1999	<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Agropyron spicatum</i>	Rust 1999
<i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Poa secunda</i>	Rust 1999	<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	Rust 1999

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Pinus ponderosa</i> / <i>Agropyron spicatum</i>	Steele and others 1981	<i>Artemisia tridentata tridentata</i> / <i>Poa secunda</i> ^a	Caicco and Wellner 1983e
<i>Pinus ponderosa</i> / <i>Crataegus douglasii</i> ^f	Kauffman and others 1985	<i>Artemisia tridentata tridentata</i> / <i>Stipa comata</i>	Daubenmire 1970
<i>Pinus ponderosa</i> / <i>Festuca idahoensis</i>	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	Hironaka and others 1983
<i>Pinus ponderosa</i> / <i>Festuca scabrella</i> ^b	McLean 1970	<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Bromus carinatus</i>	Nelson and Jensen 1987
<i>Pinus ponderosa</i> / <i>Purshia tridentata</i>	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Carex geyeri</i>	Hironaka and others 1983
<i>Agropyron spicatum</i> phase	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Festuca idahoensis</i>	Hironaka and others 1983
<i>Festuca idahoensis</i> phase	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	Hironaka and others 1983
<i>Pinus ponderosa</i> / <i>Stipa comata</i>	Daubenmire and Daubenmire 1968	<i>Artemisia tridentata vaseyana</i> / <i>Bromus carinatus</i>	Lewis 1971
<i>Pinus ponderosa</i> / <i>Stipa occidentalis</i>	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> / <i>Elymus cinereus</i>	Hironaka and others 1983
<i>Pseudotsuga menziesii</i> / <i>Agropyron spicatum</i>	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> / <i>Leucopoa kingii</i> ^b	Johnston 1987
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> / <i>Poa secunda</i> ^c	Day and Wright 1985
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	Steele and others 1981	<i>Artemisia tridentata vaseyana</i> / <i>Stipa comata</i>	Hironaka and others 1983
<i>Festuca idahoensis</i> phase	Steele and others 1981	<i>Artemisia tridentata</i>	Caicco and Wellner 1983c
<i>Pinus ponderosa</i> phase	Steele and others 1981	<i>Artemisia tridentata wyomingensis</i> / <i>Carex filifolia</i> ^a	Moseley 1987a
<i>Pseudotsuga menziesii</i> / <i>Juniperus scopulorum</i> ^a	Wellner 1991a	<i>Artemisia tridentata wyomingensis</i> / <i>Elymus ambiguus salmonis</i> ^a	Moseley 1987b
<i>Pseudotsuga menziesii</i> / <i>Leucopoa kingii</i> ^a	Wellner 1991a	<i>Artemisia tridentata wyomingensis</i> / <i>Festuca idahoensis</i> ^a	Hironaka and others 1983
Deciduous woodland		<i>Artemisia tridentata wyomingensis</i> / <i>Poa secunda</i>	Hironaka and others 1983
<i>Celtis reticulata</i> / <i>Agropyron spicatum</i>	Tisdale 1986	<i>Artemisia tridentata wyomingensis</i> / <i>Sitanion hystrix</i>	Hironaka and others 1983
<i>Populus angustifolia</i> / <i>Cornus stolonifera</i>	Youngblood and others 1985	<i>Artemisia tridentata wyomingensis</i> / <i>Stipa comata</i>	Hironaka and others 1983
Evergreen shrubland		<i>Artemisia tridentata wyomingensis</i> / <i>Stipa thurberiana</i>	Hironaka and others 1983
<i>Artemisia cana viscidula</i> / <i>Deschampsia cespitosa</i>	Padgett and others 1989	<i>Artemisia tridentata xericensis</i> / <i>Agropyron spicatum</i>	Hironaka and others 1983
<i>Artemisia cana viscidula</i> / <i>Festuca idahoensis</i>	Hironaka and others 1983	<i>Artemisia tridentata xericensis</i> / <i>Festuca idahoensis</i>	Hironaka and others 1983
<i>Artemisia tridentata spiciformis</i> / <i>Bromus carinatus</i>	Hironaka and others 1983	<i>Atriplex confertifolia</i> / <i>Agropyron spicatum</i> ^a	Wellner and Tisdale 1985
<i>Artemisia tridentata spiciformis</i> / <i>Carex geyeri</i>	Hironaka and others 1983	<i>Atriplex confertifolia</i> / <i>Elymus ambiguus salmonis</i> ^a	Moseley 1987a
<i>Artemisia tridentata tridentata</i> / <i>Elymus cinereus</i>	Hironaka and others 1983		
<i>Artemisia tridentata tridentata</i> / <i>Festuca idahoensis</i>	Hironaka and others 1983		

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Atriplex confertifolia</i> / <i>Oryzopsis hymenoides</i> ^a	Moseley 1987a	<i>Alnus incana</i> /mesic forb	Padgett and others 1989
<i>Atriplex confertifolia</i> / <i>Sitanion hystrix</i> ^a	Wellner and Tisdale 1985	<i>Alnus incana</i> /Mesic Graminoid	Padgett and others 1989
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	Tisdale 1986	<i>Alnus incana</i> / <i>Ribes hudsonianum</i>	Youngblood and others 1985
<i>Cercocarpus ledifolius</i> / <i>Artemisia tridentata</i>	Dealy 1975	<i>Alnus incana</i> / <i>Spiraea douglasii</i> ^b	Kovalchik 1987
<i>Cercocarpus ledifolius</i> / <i>Artemisia tridentata vaseyana</i> ^b	Blackburn and others 1969	<i>Alnus sinuata</i>	Daubenmire and Daubenmire 1968
<i>Cercocarpus ledifolius</i> / <i>Artemisia tridentata</i> / <i>Festuca idahoensis</i>	Dealy 1975	<i>Alnus sinuata</i> / <i>Athyrium filix-femina</i> ^b	Kovalchik 1993
<i>Cercocarpus ledifolius</i> / <i>Calamagrostis rubescens</i>	Dealy 1975	<i>Alnus sinuata</i> /mesic forb ^b	Kovalchik 1993
<i>Cercocarpus ledifolius</i> / <i>Elymus ambiguus salmonis</i> ^a	Moseley 1987a	<i>Alnus sinuata</i> / <i>Montia cordifolia</i>	Cooper and others 1991
<i>Cercocarpus ledifolius</i> / <i>Elymus cinereus</i>	Dealy 1975	<i>Betula glandulosa</i> / <i>Carex lasiocarpa</i> ^a	Bursik and Moseley 1995
<i>Cercocarpus ledifolius</i> / <i>Festuca idahoensis</i>	Dealy 1975	<i>Betula glandulosa</i> / <i>Carex simulata</i>	Moseley and others 1991
<i>Cercocarpus ledifolius</i> / <i>Holodiscus dumosus</i> ^a	Moseley 1987a	<i>Betula glandulosa</i> / <i>Carex utriculata</i> ^b	Hansen and others 1995
<i>Cercocarpus ledifolius</i> / <i>Leucopoa kingii</i> ^b	Wellner and Tisdale 1985	<i>Betula glandulosa</i> / <i>Lonicera caerulea</i> / <i>Senecio pseudoreus</i>	Tuhy 1981
<i>Cercocarpus ledifolius</i> / <i>Symphoricarpos albus</i> / <i>Festuca idahoensis</i>	Dealy 1975	<i>Betula occidentalis</i> ^b	Hansen and others 1995
<i>Cercocarpus ledifolius</i> / <i>Symphoricarpos oreophilus</i>	Dealy 1975	<i>Betula occidentalis</i> / <i>Celtis reticulata</i>	Miller 1976
<i>Chrysothamnus nauseosus</i> / <i>Elymus flavescens</i> / <i>Psoralea lanceolata</i> ^a	Chadwick and Dalke 1965	<i>Betula occidentalis</i> / <i>Cornus stolonifera</i>	Padgett and others 1989
<i>Purshia tridentata</i> - <i>Artemisia tridentata tridentata</i> ^a	Chadwick and Dalke 1965	<i>Betula occidentalis</i> / <i>Crataegus douglasii</i> ^b	Moseley 1986
<i>Purshia tridentata</i> - <i>Chrysothamnus nauseosus</i> ^c	Chadwick and Dalke 1965	<i>Betula occidentalis</i> /mesic forb	Padgett and others 1989
<i>Purshia tridentata</i> - <i>Prunus virginiana</i> ^a	Chadwick and Dalke 1965	<i>Betula occidentalis</i> / <i>Philadelphus lewisii</i> ^b	Moseley 1987d
<i>Purshia tridentata</i> / <i>Poa nevadensis</i> ^a	Moseley 1987c	<i>Betula occidentalis</i> / <i>Prunus virginiana</i>	Huschle 1975
Deciduous shrubland		<i>Betula occidentalis</i> / <i>Purshia tridentata</i> / <i>Stipa comata</i> ^a	Moseley 1987c
<i>Alnus incana</i> - <i>Betula occidentalis</i> / <i>Salix exigua</i>	Miller 1976	<i>Betula papyrifera</i> / <i>Aralia nudicaulis</i> ^b	Kovalchik 1993
<i>Alnus incana</i> / <i>Athyrium filix-femina</i> ^b	Kovalchik 1993	<i>Cornus stolonifera</i> ^b	Hansen and others 1995
<i>Alnus incana</i> / <i>Carex utriculata</i> ^b	Kovalchik 1993	<i>Cornus stolonifera</i> / <i>Galium trifolium</i>	Youngblood and others 1985
<i>Alnus incana</i> / <i>Cornus stolonifera</i>	Tuhy and Jensen 1982	<i>Cornus stolonifera</i> / <i>Heracleum lanatum</i>	Youngblood and others 1985
<i>Alnus incana</i> / <i>Equisetum arvense</i> ^b	Kovalchik 1993	<i>Crataegus douglasii</i> / <i>Heracleum lanatum</i>	Daubenmire 1970
<i>Alnus incana</i> / <i>Lysichiton americanum</i> ^b	Kovalchik 1993	<i>Crataegus douglasii</i> / <i>Montia perfoliata</i> ^a	Asherin and Orme 1978
		<i>Crataegus douglasii</i> / <i>Symphoricarpos albus</i>	Daubenmire 1970

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Glossopetalon nevadense</i> / <i>Agropyron spicatum</i>	Johnson and Simon 1987	<i>Salix exigua</i> / <i>Equisetum arvense</i>	Youngblood and others 1985
<i>Philadelphus lewisii</i> ^a	Moseley 1987d	<i>Salix exigua</i> /mesic forb	Padgett and others 1989
<i>Physocarpus malvaceus</i> - <i>Symphoricarpos albus</i>	Johnson and Simon 1987	<i>Salix exigua</i> /mesic graminoid	Padgett and others 1989
<i>Potentilla fruticosa</i> / <i>Deschampsia</i> <i>cespitosa</i>	Youngblood and others 1985	<i>Salix exigua</i> / <i>Rosa woodsii</i> ^b	Manning and Padgett 1995
<i>Prunus virginiana</i> / <i>Artemisia</i> <i>tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> ^a	Wellner and Bernatas 1991	<i>Salix geyeriana</i> / <i>Calamagrostis</i> <i>canadensis</i>	Tuhy and Jensen 1982
<i>Rhamnus alnifolia</i>	Youngblood and others 1985	<i>Salix geyeriana</i> / <i>Carex aquatilis</i>	Padgett and others 1989
<i>Rosa woodsii</i> ^b	Hansen and others 1995	<i>Salix geyeriana</i> / <i>Carex utriculata</i>	Youngblood and others 1985
<i>Salix bebbiana</i> ^b	Hansen and others 1995	<i>Salix geyeriana</i> / <i>Deschampsia</i> <i>cespitosa</i>	Padgett and others 1989
<i>Salix bebbiana</i> /mesic graminoid	Padgett and others 1989	<i>Salix geyeriana</i> / <i>Geum</i> <i>macrophyllum</i>	Tuhy 1981
<i>Salix boothii</i> / <i>Calamagrostis</i> <i>canadensis</i>	Youngblood and others 1985	<i>Salix geyeriana</i> /mesic forb	Youngblood and others 1985
<i>Salix boothii</i> / <i>Carex aquatilis</i>	Youngblood and others 1985	<i>Salix geyeriana</i> /mesic graminoid	Padgett and others 1989
<i>Salix boothii</i> / <i>Carex nebraskensis</i>	Youngblood and others 1985	<i>Salix geyeriana</i> / <i>Poa palustris</i>	Youngblood and others 1985
<i>Salix boothii</i> / <i>Carex utriculata</i>	Mutz and Queiroz 1983	<i>Salix lasiandra</i> / <i>Bench</i> ^b	Manning and Padgett 1995
<i>Salix boothii</i> / <i>Equisetum arvense</i>	Youngblood and others 1985	<i>Salix lasiandra</i> /mesic forb ^b	Manning and Padgett 1995
<i>Salix boothii</i> /mesic forb	Padgett and others 1989	<i>Salix lasiandra</i> / <i>Rosa woodsii</i> ^b	Evenden 1989
<i>Salix boothii</i> /mesic graminoid	Padgett and others 1989	<i>Salix lasiolepis</i> /barren	Padgett and others 1989
<i>Salix boothii</i> / <i>Poa palustris</i>	Youngblood and others 1985	<i>Salix lutea</i>	Youngblood and others 1985
<i>Salix boothii</i> / <i>Smilacina stellata</i>	Youngblood and others 1985	<i>Salix lutea</i> / <i>Bench</i> ^b	Manning and Padgett 1995
<i>Salix candida</i> / <i>Carex utriculata</i> ^b	Hansen and others 1995	<i>Salix lutea</i> /mesic forb ^b	Manning and Padgett 1995
<i>Salix commutata</i> / <i>Carex scopulorum</i>	Tuhy and Jensen 1982	<i>Salix lutea</i> / <i>Rosa woodsii</i> ^b	Manning and Padgett 1995
<i>Salix drummondiana</i> ^b	Hansen and others 1995	<i>Salix planifolia</i>	Youngblood and others 1985
<i>Salix drummondiana</i> / <i>Calamagrostis canadensis</i>	Tuhy and Jensen 1982	<i>Salix planifolia monica</i> / <i>Carex</i> <i>aquatilis</i> - <i>Carex utriculata</i>	Padgett and others 1989
<i>Salix drummondiana</i> / <i>Carex</i> <i>utriculata</i> ^b	Kovalchik 1993	<i>Salix planifolia monica</i> / <i>Carex</i> <i>scopulorum</i> ^b	Komarkova 1986
<i>Salix eastwoodiae</i> / <i>Carex aquatilis</i>	Mutz and Queiroz 1983	<i>Salix planifolia</i> / <i>Carex aquatilis</i>	Padgett and others 1989
<i>Salix eastwoodiae</i> / <i>Carex utriculata</i>	Mutz and Queiroz 1983	<i>Salix wolfii</i> / <i>Calamagrostis</i> <i>canadensis</i>	Youngblood and others 1985
<i>Salix exigua</i> /barren	Padgett and others 1989		

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Salix wolfii</i> / <i>Carex aquatilis</i>	Youngblood and others 1985	<i>Phyllodoce empetrifomis</i> / <i>Antennaria lanata</i> ^b	Cooper and others 1997
<i>Salix wolfii</i> / <i>Carex microptera</i>	Tuhy and Jensen 1982	Deciduous dwarf-shrubland	
<i>Salix wolfii</i> / <i>Carex nebraskensis</i>	Youngblood and others 1985	<i>Salix nivalis</i> ^c	Urbanczyk 1993
<i>Salix wolfii</i> / <i>Carex utriculata</i>	Youngblood and others 1985	Perennial graminoid vegetation	
<i>Salix wolfii</i> / <i>Deschampsia cespitosa</i>	Youngblood and others 1985	<i>Agropyron scribneri</i> ^f	Caicco 1983
<i>Salix wolfii</i> /mesic forb	Mutz and Queiroz 1983	<i>Agropyron smithii</i>	French and Mitchell 1983
<i>Salix wolfii</i> / <i>Poa palustris</i>	Youngblood and others 1985	<i>Agropyron spicatum</i> / <i>Eriogonum heracleoides</i>	Johnson and Simon 1987
<i>Salix wolfii</i> / <i>Swertia perennis</i> - <i>Pedicularis groenlandica</i>	Tuhy and Jensen 1982	<i>Agropyron spicatum</i> - <i>Festuca</i> <i>idahoensis</i>	Daubenmire 1970
<i>Sarcobatus vermiculatus</i> / <i>Distichlis stricta stricta</i>	Daubenmire 1970	<i>Agropyron spicatum</i> - <i>Melica bulbosa</i> ^b	Mueggler and Stewart 1980
<i>Sarcobatus vermiculatus</i> / <i>Elymus cinereus</i> ^b	Mueggler and Stewart 1980	<i>Agropyron spicatum</i> / <i>Opuntia</i> <i>polyacantha</i>	Johnson and Simon 1987
<i>Spiraea douglasii</i> ^p	Hansen and others 1995	<i>Agropyron spicatum</i> - <i>Poa secunda</i>	Johnson and Simon 1987
<i>Symphoricarpos albus</i> - <i>Rosa</i> spp.	Johnson and Simon 1987	<i>Erigeron pumilis</i> variant	Johnson and Simon 1987
Evergreen dwarf-shrubland		<i>Phlox colubrina</i> variant	Johnson and Simon 1987
<i>Artemisia nova</i> / <i>Agropyron</i> <i>spicatum</i>	Hironaka and others 1983	<i>Scutellaria angustifolia</i> variant	Johnson and Simon 1987
<i>Artemisia nova</i> / <i>Oryzopsis</i> <i>hymenoides</i> ^b	Jensen and others 1988	granite variant	Johnson and Simon 1987
<i>Artemisia nova</i> / <i>Poa secunda</i> ^a	Caicco and Wellner 1983e	<i>Agropyron spicatum</i> - <i>Poa secunda</i> , scabland	Johnson and Simon 1987
<i>Cassiope mertensiana</i> - <i>Phyllodoce</i> <i>empetriformis</i> ^b	Del Moral 1979	<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	Johnson and Simon 1987
<i>Cassiope mertensiana</i> / <i>Carex</i> <i>paysonis</i> ^b	Cooper and others 1997	<i>Astragalus cusickii</i> variant	Johnson and Simon 1987
<i>Cassiope mertensiana</i> / <i>Luetkea</i> <i>pectinata</i> ^b	Douglas and Bliss 1977	basalt variant	Johnson and Simon 1987
<i>Eriogonum ovalifolium depressum</i> Cinder Gardens ^c	Day and Wright 1985	<i>Agrostis exarata</i> - <i>Agrostis scabra</i>	Tuhy 1981
<i>Eriogonum sphaerocephalum</i> / <i>Poa secunda</i>	Daubenmire 1970	<i>Aristida longiseta</i> / <i>Poa secunda</i>	Daubenmire 1970
<i>Eriogonum</i> spp.- <i>Physaria oregana</i>	Johnson and Simon 1987	<i>Artemisia arbuscula arbuscula</i> / <i>Agropyron spicatum</i>	Hironaka and others 1983
<i>Eriogonum thymoides</i> / <i>Poa secunda</i>	Daubenmire 1970	<i>Artemisia arbuscula arbuscula</i> / <i>Elymus ambiguus salmonis</i> ^a	Caicco and Wellner 1983a
<i>Eurotia lanata</i> / <i>Poa secunda</i>	Daubenmire 1970	<i>Artemisia arbuscula arbuscula</i> / <i>Festuca idahoensis</i>	Hironaka and others 1983
<i>Kalmia microphylla</i> / <i>Carex</i> <i>scopulorum</i> ^p	Hansen and others 1995	<i>Artemisia arbuscula arbuscula</i> / <i>Poa secunda</i>	Hironaka and others 1983
<i>Phyllodoce empetrifomis</i> - <i>Ledum</i> <i>glandulosum</i>	Schlatterer 1972	<i>Artemisia arbuscula thermopola</i> / <i>Festuca idahoensis</i>	Hironaka and others 1983
		<i>Artemisia cana bolanderi</i> / <i>Muhlenbergia richardsonis</i>	Hironaka and others 1983

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Artemisia longiloba/Festuca idahoensis</i>	Hironaka and others 1983	<i>Carex nebraskensis</i>	Youngblood and others 1985
<i>Artemisia nova/Elymus ambiguus salmonis</i> ^a	Caicco and Wellner 1983f	<i>Carex nigricans</i> ^b	Cooper and others 1997
<i>Artemisia nova/Festuca idahoensis</i>	Hironaka and others 1983	<i>Carex nigricans-Agrostis humilis</i> ^c	Lewis and Riegelhuth 1964
<i>Artemisia rigida/Poa secunda</i>	Johnson and Simon 1987	<i>Carex paysonis</i> ^c	Lewis and Riegelhuth 1964
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	Hironaka and others 1983	<i>Carex praegracilis-Carex aquatilis</i>	Moseley and others 1991
<i>Artemisia tridentata vaseyana/Carex geyeri</i>	Johnson and Simon 1987	<i>Carex rupestris</i> ^c	Caicco 1983
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	Hironaka and others 1983	<i>Carex scirpoidea/Geum rossii</i> ^p	Cooper and others 1997
<i>Artemisia tridentata wyomingensis/Agropyron spicatum</i>	Hironaka and others 1983	<i>Carex scirpoidea/Potentilla diversifolia</i> ^b	Cooper and others 1997
<i>Artemisia tripartita/Agropyron spicatum</i>	Daubenmire 1970	<i>Carex scopulorum</i> ^p	Kovalchik 1993
<i>Artemisia tripartita/Elymus cinereus</i> ^a	Moseley 1987c	<i>Carex simulata</i>	Youngblood and others 1985
<i>Artemisia tripartita/Festuca idahoensis</i>	Daubenmire 1970	<i>Carex stenophylla-Poa secunda</i> ^a	Caicco and Wellner 1983b
<i>Artemisia tripartita/Stipa comata</i>	Daubenmire 1970	<i>Carex utriculata</i>	Tuhy and Jensen 1982
<i>Bromus spp./Stipa occidentalis</i>	Tuhy 1981	<i>Carex vesicaria</i> ^b	Hansen and others 1995
<i>Calamagrostis canadensis</i>	Padgett and others 1989	<i>Deschampsia cespitosa</i>	Tuhy and Jensen 1982
<i>Calamagrostis purpurescens</i>	Moseley 1985	<i>Deschampsia cespitosa/Caltha leptosepala</i> ^b	Cooper and others 1997
<i>Carex albonigra</i> ^a	Wellner 1991b	<i>Deschampsia cespitosa/Potentilla diversifolia</i> ^c	Caicco 1983
<i>Carex aperta</i> ^b	Boggs and others 1990	<i>Distichlis stricta stricta</i>	Daubenmire 1970
<i>Carex aquatilis</i>	Youngblood and others 1985	<i>Distichlis stricta stricta-Scirpus nevadensis</i> ^b	Copeland 1979
<i>Carex buxbaumii</i>	Padgett and others 1989	<i>Dryas octopetala</i> ^c	Urbanczyk 1993
<i>Carex cusickii</i> ^a	Bursik and Moseley 1995	<i>Dryas octopetala-Polygonum viviparum</i> ^p	Cooper and others 1997
<i>Carex elynoides/Lupinus agenteus</i> ^c	Caicco 1983	<i>Dryas octopetala/Carex rupestris</i> ^b	Cooper and others 1997
<i>Carex elynoides/Oxytropis sericea</i> ^c	Caicco 1983	<i>Dulichium arundinaceum</i> ^a	Bursik and Moseley 1995
<i>Carex lanuginosa</i>	Padgett and others 1989	<i>Eleocharis acicularis</i> ^c	Lewis and Riegelhuth 1964
<i>Carex lasiocarpa</i>	Padgett and others 1989	<i>Eleocharis palustris</i> (wetland/riparian)	Tuhy and Jensen 1982
<i>Carex limosa</i>	Padgett and others 1989	<i>Eleocharis pauciflora-Carex aquatilis, Carex livida</i> phase	Mattson 1984
<i>Carex livida</i> ^a	Bursik and Moseley 1995	<i>Eleocharis pauciflora</i>	Padgett and others 1989
<i>Carex microptera</i>	Youngblood and others 1985	<i>Eleocharis rostellata</i> Herbaceous Vegetation ^b	Hansen and others 1995
		<i>Elymus ambiguus salmonis/Enceliopsis nudicaulis</i> ^a	Caicco and Wellner 1983d

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Elymus ambiguus salmonis</i> / <i>Lupinus argenteus</i> ^a	Caicco and Wellner 1983d	<i>Festuca scabrella</i> - <i>Festuca</i> <i>idahoensis</i> ^a	Wellner and Tisdale 1985
<i>Elymus cinereus</i>	Johnson and Simon 1987	<i>Festuca viridula</i> ^a	Wellner and Tisdale
<i>Elymus cinereus</i> - <i>Distichlis</i> <i>stricta stricta</i>	Daubenmire 1970	<i>Glyceria borealis</i> ^b	Hansen and others 1995
<i>Eriogonum douglasii</i> / <i>Poa secunda</i>	Johnson and Simon 1987	<i>Hordeum jubatum</i> ^b	Hansen and others 1995
<i>Eriogonum strictum</i> / <i>Poa secunda</i>	Johnson and Simon 1987	<i>Juncus balticus</i>	Tuhy and Jensen 1982
<i>Eriophorum polystachion</i> ^b	Kovalchik 1993	<i>Juncus drummondii</i> - <i>Carex</i> spp. ^c	Lewis and Riegelhuth 1964
<i>Festuca idahoensis</i> (alpine)	Schlatterer 1972	<i>Juncus parryi</i> ^a	Chadde 1993
<i>Festuca idahoensis</i> - <i>Agropyron</i> <i>spicatum</i>	Johnson and Simon 1987	<i>Juniperus occidentalis</i> / <i>Agropyron</i> <i>spicatum</i>	Driscoll 1964
<i>Balsamorhiza sagittata</i> variant	Johnson and Simon 1987	<i>Juniperus occidentalis</i> / <i>Artemisia</i> <i>arbuscula</i> / <i>Festuca idahoensis</i>	Hall 1973
<i>Lupinus sericeus</i> variant	Johnson and Simon 1987	<i>Juniperus occidentalis</i> / <i>Festuca</i> <i>idahoensis</i>	Driscoll 1964
<i>Phlox colubrina</i> variant	Johnson and Simon 1987	<i>Juniperus osteosperma</i> / <i>Elymus</i> <i>ambiguus salmonis</i> ^a	Caicco and Wellner 1983a
ridgetop variant	Johnson and Simon 1987	<i>Juniperus osteosperma</i> / <i>Stipa comata</i> ^a	Caicco and Wellner 1983a
<i>Festuca idahoensis</i> - <i>Carex geyeri</i>	Johnson and Simon 1987	<i>Leucopoa kingii</i> - <i>Carex elynoides</i>	Moseley 1985
<i>Festuca idahoensis</i> - <i>Carex hoodii</i>	Johnson and Simon 1987	<i>Leucopoa kingii</i> - <i>Poa cusickii</i>	Moseley 1985
<i>Festuca idahoensis</i> - <i>Danthonia</i> <i>californica</i> ^a	Moseley 1987b	<i>Leucopoa kingii</i> / <i>Achillea</i> <i>millefolium</i>	Moseley 1985
<i>Festuca idahoensis</i> - <i>Danthonia</i> <i>intermedia</i> - <i>Carex</i> spp.	Johnson and Simon 1987	<i>Leucopoa kingii</i> / <i>Oxytropis</i> <i>campestris</i> ^b	Cooper and others 1997
<i>Festuca idahoensis</i> - <i>Deschampsia</i> <i>cespitosa</i> ^b	Mueggler and Stewart 1980	<i>Leucopoa kingii</i> / <i>Phlox pulvinata</i>	Moseley 1985
<i>Festuca idahoensis</i> / <i>Eriogonum</i> <i>caespitosum</i> ^c	Caicco 1983	<i>Phalaris arundinacea</i> ^b	Hansen and others 1995
<i>Festuca idahoensis</i> - <i>Koeleria</i> <i>cristata</i>	Johnson and Simon 1987	<i>Phragmites australis</i> ^b	Hansen and others 1995
high elevation variant	Johnson and Simon 1987	<i>Phragmites communis</i> / <i>Rhus radicans</i>	Huschle 1975
low elevation variant	Johnson and Simon 1987	<i>Poa epilis</i> ^c	Caicco 1983
mounds variant	Johnson and Simon 1987	<i>Potentilla fruticosa</i> / <i>Danthonia</i> <i>intermedia</i>	Tuhy and Jensen 1982
ridgetop variant	Johnson and Simon 1987	<i>Potentilla fruticosa</i> / <i>Festuca</i> <i>idahoensis</i>	Youngblood and others 1985
<i>Festuca idahoensis</i> / <i>Potentilla</i> <i>diversifolia</i> ^c	Caicco 1983	<i>Purshia tridentata</i> / <i>Agropyron</i> <i>spicatum</i>	Johnson and Simon 1987
<i>Festuca idahoensis</i> / <i>Rosa nutkana</i>	Daubenmire 1970	<i>Purshia tridentata</i> / <i>Agropyron</i> <i>spicatum</i> - <i>Elymus cinereus</i> ^c	Day and Wright 1985
<i>Festuca idahoensis</i> / <i>Symphoricarpos albus</i>	Daubenmire 1970	<i>Purshia tridentata</i> / <i>Festuca</i> <i>idahoensis</i>	Johnson and Simon 1987
		<i>Purshia tridentata</i> / <i>Stipa comata</i>	Daubenmire 1970

Cont'd.

Table 1 Cont'd.

Plant associations and community types	Principal descriptive work	Plant associations and community types	Principal descriptive work
<i>Rhus glabra</i> / <i>Agropyron spicatum</i>	Daubenmire 1970	<i>Equisetum fluviatile</i> ^b	Hansen and others 1995
<i>Scirpus acutus</i> ^b	Hansen and others 1995	<i>Geum rossii</i> ^a	Brunsfeld 1981
<i>Scirpus americanus</i> ^b	Hansen and others 1995	<i>Geum rossii</i> / <i>Arenaria obtusiloba</i> ^b	Cooper and others 1997
<i>Scirpus cespitosus</i> - <i>Carex livida</i>	Tuhy 1981	<i>Ivesia gordonii</i> - <i>Arenaria obtusiloba</i> ^a	Caicco 1983
<i>Scirpus maritimus</i> ^b	Hansen and others 1995	<i>Ivesia gordonii</i> - <i>Eriogonum caespitosum</i> ^c	Caicco 1983
<i>Scirpus validus</i> ^b	Kovalchik 1993	<i>Lepidium davisii</i> Vernal Pool	Doremus and DeBolt 1987
<i>Spartina gracilis</i> ^b	Hansen and others 1995	<i>Mertensia ciliata</i>	Padgett and others 1989
<i>Sporobolus cryptandrus</i>	Johnson and Simon 1987	<i>Phlox pulvinata</i> / <i>Poa epilys</i> ^c	Caicco 1983
<i>Sporobolus cryptandrus</i> - <i>Poa secunda</i>	Tisdale 1986	<i>Potentilla diversifolia</i> - <i>Arenaria obtusiloba</i> ^a	Wellner 1991b
Perennial forb vegetation		<i>Potentilla ovina</i> / <i>Agropyron scribneri</i>	Moseley 1985
<i>Artemisia ludoviciana</i> ^c	Lichthardt 1992	<i>Saxifraga oppositifolia</i> ^a	Brunsfeld 1981
<i>Caltha leptosepala</i>	Padgett and others 1989	<i>Veratrum californicum</i>	Youngblood and others 1985
<i>Camassia cusickii</i>	Johnson and Simon 1987	<i>Xerophyllum tenax</i> ^a	Wellner and Tisdale 1985
<i>Camassia quamash</i>	Daubenmire 1970		
<i>Chrysopsis villosa</i> ^c	Lichthardt 1992		
<i>Chrysopsis villosa</i> / <i>Sporobolus cryptandrus</i>	Huschle 1975		

^aAnecdotal element not supported by quantitative data. Formal data collection and analysis have not contributed to the recognition of this plant community element.

^bDescription of element is not supported by quantitative data collected in Idaho. Formal data collection contributing to the recognition of this plant community element occurred outside our area. The occurrence of the plant community element in our area is supported by observational data only.

^cQuantitative data is only representative of a small portion of the potential range of the community. Formal data collection contributing to the recognition of this plant community element occurred over a small area relative to the expected range of the element. The relevance of the classification work to the expected range has not been formally tested.

Table 2. Assessment summary by ecological section listed by National Vegetative Classification Subclass.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Northwest Basin and Range, Section 342B- Eastern Portion				
Evergreen forest				
<i>Abies lasiocarpa/Acer glabrum</i>	1		0	2
<i>Abies lasiocarpa/Actaea rubra</i>	1		0	2
<i>Abies lasiocarpa/Berberis repens</i>	1	1	1	2
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	1		0	2
<i>Abies lasiocarpa/Carex geyeri</i>	0	1	1	2
<i>Abies lasiocarpa/Carex rossii</i>	1		0	2
<i>Abies lasiocarpa/Osmorhiza chilensis</i>	1	1	1	2
<i>Abies lasiocarpa/Physocarpus malvaceus</i>	1		0	2
<i>Abies lasiocarpa/Ribes montigenum</i>	1	5	1	3
<i>Abies lasiocarpa/Thalictrum occidentale</i>	0	1	1	2
<i>Abies lasiocarpa/Vaccinium globulare</i>	1		0	2
<i>Picea glauca/Equisetum arvense</i>	0		0	5
<i>Pseudotsuga menziesii/Acer glabrum</i>	2	5	1	3
<i>Pseudotsuga menziesii/Berberis repens</i>	1	5	1	2
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	1		0	2
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	4	5	1	3
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	4		0	1
Deciduous forest				
<i>Acer grandidentatum/Calamagrostis rubescens</i>	0		0	5
<i>Acer negundo/Cornus stolonifera</i>	0		0	5
<i>Acer negundo/Equisetum arvense</i>	0		0	5
<i>Populus angustifolia/Acer grandidentatum</i>	0		0	5
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Calamagrostis rubescens</i>	0	3	1	2
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/tall forb</i>	0		0	5
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Thalictrum fendleri</i>	0		0	5
<i>Populus tremuloides/Amelanchier alnifolia/tall forb</i>	1		0	2
<i>Populus tremuloides/Amelanchier alnifolia/Thalictrum fendleri</i>	0		0	5
<i>Populus tremuloides/Cornus stolonifera</i>	1		0	2
<i>Populus tremuloides/Shepherdia canadensis</i>	0	2		
<i>Populus tremuloides/Symphoricarpos oreophilus/Calamagrostis rubescens</i>	1		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/tall forb</i>	1		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/Thalictrum fendleri</i>	1		0	2
<i>Populus tremuloides/tall forb</i>	1		0	2
<i>Populus tremuloides/Thalictrum fendleri</i>	0		0	5
<i>Populus tremuloides/Veratrum californicum</i>	1		0	2
<i>Populus tremuloides/Wyethia amplexicaulis</i>	0		0	5
<i>Populus trichocarpa/Rosa woodsii</i>	2		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Northwest Basin and Range, Section 342B- Eastern Portion (Cont'd.)				
Evergreen woodland				
<i>Juniperus osteosperma</i> / <i>Artemisia arbuscula arbuscula</i> / <i>Agropyron spicatum</i>	3		0	2
<i>Juniperus osteosperma</i> / <i>Artemisia arbuscula arbuscula</i> / <i>Festuca idahoensis</i>	1	7	1	3
<i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Agropyron spicatum</i>	2		0	2
<i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Poa secunda</i>	2	7	1	3
<i>Juniperus osteosperma</i> / <i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	1	8	1	3
<i>Juniperus osteosperma</i> / <i>Artemisia tridentata vaseyana</i> / <i>Festuca idahoensis</i>	2	7	1	3
<i>Pinus flexilis</i> / <i>Cercocarpus ledifolius</i>	0		0	5
<i>Pinus monophylla</i> - <i>Cercocarpus ledifolius</i> / <i>Holodiscus dumosus</i> / <i>Elymus cinereus</i>	1		0	2
<i>Pinus monophylla</i> - <i>Cercocarpus ledifolius</i> / <i>Poa secunda</i>	2		0	2
<i>Pinus monophylla</i> - <i>Cercocarpus ledifolius</i> / <i>Symphoricarpos oreophilus</i> - <i>Berberis repens</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Agropyron spicatum</i>	2		0	2
<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Artemisia</i> <i>nova</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	1	7	1	3
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	0		0	5
Evergreen shrubland				
<i>Artemisia tridentata spiciformis</i> / <i>Bromus carinatus</i>	1		0	2
<i>Artemisia tridentata spiciformis</i> / <i>Carex geyeri</i>	0	3	1	2
<i>Artemisia tridentata tridentata</i> / <i>Festuca idahoensis</i>	2		0	2
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	1	3	1	2
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Bromus carinatus</i>	2	4	1	3
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Carex geyeri</i>	1		0	2
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Festuca idahoensis</i>	3		0	2
<i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	6	3	1	1
<i>Artemisia tridentata vaseyana</i> / <i>Bromus carinatus</i>	0	3	1	2
<i>Artemisia tridentata vaseyana</i> / <i>Elymus cinereus</i>	5		0	1
<i>Artemisia tridentata wyomingensis</i> / <i>Festuca idahoensis</i>	7		0	1
<i>Atriplex confertifolia</i> / <i>Sitanion hystrix</i>	1		0	2
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Cercocarpus ledifolius</i> / <i>Artemisia tridentata</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Northwest Basin and Range, Section 342B- Eastern Portion (Cont'd.)				
Evergreen shrubland (cont'd.)				
<i>Cercocarpus ledifolius/Artemisia tridentata/Festuca idahoensis</i>	1		0	2
<i>Cercocarpus ledifolius/Calamagrostis rubescens</i>	2		0	2
<i>Cercocarpus ledifolius/Festuca idahoensis</i>	2		0	2
<i>Cercocarpus ledifolius/Leucopoa kingii</i>	2		0	2
<i>Cercocarpus ledifolius/Symphoricarpos albus/Festuca idahoensis</i>	2		0	2
<i>Cercocarpus ledifolius/Symphoricarpos oreophilus</i>	2		0	2
<i>Purshia tridentata/Poa nevadensis</i>	1		0	2
Deciduous shrubland				
<i>Alnus incana/Cornus stolonifera</i>	1		0	2
<i>Alnus incana/mesic forb</i>	4		0	1
<i>Alnus incana/mesic graminoid</i>	4		0	1
<i>Betula occidentalis</i>	0		0	5
<i>Betula occidentalis/Cornus stolonifera</i>	0		0	5
<i>Betula occidentalis/mesic forb</i>	0		0	5
<i>Betula occidentalis/Purshia tridentata/Stipa comata</i>	0		0	5
<i>Cornus stolonifera</i>	3		0	2
<i>Cornus stolonifera/Galium trifolium</i>	0		0	5
<i>Cornus stolonifera/Heracleum lanatum</i>	0		0	5
<i>Potentilla fruticosa/Deschampsia cespitosa</i>	0		0	5
<i>Rosa woodsii</i>	2		0	2
<i>Salix bebbiana</i>	0		0	5
<i>Salix boothii/Calamagrostis canadensis</i>	0		0	5
<i>Salix boothii/Carex aquatilis</i>	0		0	5
<i>Salix boothii/Carex utriculata</i>	0		0	5
<i>Salix boothii/mesic forb</i>	0		0	5
<i>Salix boothii/mesic graminoid</i>	0		0	5
<i>Salix drummondiana</i>	3		0	2
<i>Salix exigua/barren</i>	4		0	1
<i>Salix exigua/mesic forb</i>	0		0	5
<i>Salix exigua/mesic graminoid</i>	0		0	5
<i>Salix exigua/Rosa woodsii</i>	2		0	2
<i>Salix geyeriana/Carex utriculata</i>	3		0	2
<i>Salix geyeriana/mesic forb</i>	2		0	2
<i>Salix geyeriana/mesic graminoid</i>	0		0	5
<i>Salix geyeriana/Poa palustris</i>	0		0	5
<i>Salix lasiandra/bench</i>	4		0	1
<i>Salix lasiandra/mesic forb</i>	2		0	2
<i>Salix lasiolepis/barren</i>	3		0	2
<i>Salix lutea/Bench</i>	1		0	2
<i>Salix lutea/mesic forb</i>	4		0	1
<i>Salix lutea/Rosa woodsii</i>	4		0	1
<i>Salix wolfii/Carex aquatilis</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Northwest Basin and Range, Section 342B- Eastern Portion (Cont'd.)				
Evergreen dwarf-shrubland				
<i>Artemisia nova/Agropyron spicatum</i>	2	7	1	3
<i>Artemisia nova/Oryzopsis hymenoides</i>	1		0	2
<i>Artemisia nova/Poa secunda</i>	0	3	1	2
<i>Eurotia lanata/Poa secunda</i>	7		0	1
Perennial graminoid vegetation				
<i>Agropyron spicatum-Poa secunda</i>	0		0	5
<i>Artemisia arbuscula arbuscula/Agropyron spicatum</i>	6		0	1
<i>Artemisia arbuscula arbuscula/Festuca idahoensis</i>	4		0	1
<i>Artemisia arbuscula arbuscula/Poa secunda</i>	0	6	1	3
<i>Artemisia arbuscula thermopola/Festuca idahoensis</i>	0	6	1	3
<i>Artemisia longiloba/Festuca idahoensis</i>	3		0	2
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	2		0	2
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	0	7	1	3
<i>Artemisia tridentata wyomingensis/Agropyron spicatum</i>	7		0	1
<i>Artemisia tripartita/Agropyron spicatum</i>	1		0	2
<i>Artemisia tripartita/Elymus cinereus</i>	1		0	2
<i>Artemisia tripartita/Festuca idahoensis</i>	1		0	2
<i>Carex aquatilis</i>	3		0	2
<i>Carex lanuginosa</i>	2		0	2
<i>Carex lasiocarpa</i>	0		0	5
<i>Carex microptera</i>	0		0	5
<i>Carex nebraskensis</i>	3		0	2
<i>Carex scopulorum</i>	4		0	1
<i>Carex simulata</i>	1		0	2
<i>Carex utriculata</i>	4		0	1
<i>Deschampsia cespitosa</i>	4		0	1
<i>Distichlis stricta stricta</i>	0		0	5
<i>Distichlis stricta stricta-Scirpus nevadensis</i>	0		0	5
<i>Eleocharis acicularis</i>	0		0	5
<i>Eleocharis palustris</i> (wetland/riparian)	2		0	2
<i>Eleocharis pauciflora</i>	3		0	2
<i>Eleocharis rostellata</i> /herbaceous vegetation	0		0	5
<i>Elymus cinereus</i>	0		0	5
<i>Festuca idahoensis</i> (alpine)	0		0	5
<i>Juncus balticus</i>	4		0	1
<i>Juniperus occidentalis/Agropyron spicatum</i>	1		0	2
<i>Juniperus osteosperma/Stipa comata</i>	1		0	2
<i>Phalaris arundinacea</i>	0		0	5
<i>Scirpus acutus</i>	0		0	5
<i>Spartina gracilis</i>	0		0	5
Perennial forb vegetation				
<i>Veratrum californicum</i>	4		0	1

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Yellowstone Highlands, Section M331A				
Evergreen forest				
<i>Abies lasiocarpa/Acer glabrum</i>	4		0	1
<i>Abies lasiocarpa/Actaea rubra</i>	1		0	2
<i>Abies lasiocarpa/Alnus sinuata</i>	1		0	2
<i>Abies lasiocarpa/Arnica cordifolia</i>	6		0	1
<i>Abies lasiocarpa/Arnica latifolia</i>	2		0	2
<i>Abies lasiocarpa/Berberis repens</i>	2		0	2
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	3		0	2
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	4		0	1
<i>Abies lasiocarpa/Carex geyeri</i>	1		0	2
<i>Abies lasiocarpa/Carex rossii</i>	2		0	2
<i>Abies lasiocarpa/Ledum glandulosum</i>	0		0	5
<i>Abies lasiocarpa/Linnaea borealis</i>	3		0	2
<i>Abies lasiocarpa/Luzula hitchcockii</i>	0		0	5
<i>Abies lasiocarpa/Osmorhiza chilensis</i>	1		0	2
<i>Abies lasiocarpa/Ribes montigenum</i>	1		0	2
<i>Abies lasiocarpa/Spiraea betulifolia</i>	2		0	2
<i>Abies lasiocarpa/Symphoricarpos albus</i>	1		0	2
<i>Abies lasiocarpa/Thalictrum occidentale</i>	2		0	2
<i>Abies lasiocarpa/Vaccinium globulare</i>	5		0	1
<i>Abies lasiocarpa/Vaccinium scoparium</i>	8	7	1	2
<i>Picea engelmannii/Arnica cordifolia</i>	3		0	2
<i>Picea engelmannii/Caltha leptosepala</i>	2		0	2
<i>Picea engelmannii/Carex disperma</i>	2		0	2
<i>Picea engelmannii/Equisetum arvense</i>	3		0	2
<i>Picea engelmannii/Galium trifolium</i>	4		0	1
<i>Picea engelmannii/Hypnum revolutum</i>	3		0	2
<i>Picea engelmannii/Juniperus communis</i>	3		0	2
<i>Picea engelmannii/Ribes montigenum</i>	2		0	2
<i>Picea glauca/Carex disperma</i>	0	1	1	2
<i>Picea glauca/Carex utriculata</i>	0	4	1	3
<i>Picea glauca/Equisetum arvense</i>	0	3	1	3
<i>Pinus albicaulis/Carex rossii</i>	5	5	1	3
<i>Pinus albicaulis/Vaccinium scoparium</i>	3		0	2
<i>Pinus contorta/Calamagrostis rubescens</i>	1	4	1	3
<i>Pinus contorta/Spiraea betulifolia</i>	0	4	1	3
<i>Pinus contorta/Vaccinium globulare</i>	1		0	2
<i>Pinus contorta/Vaccinium scoparium</i>	5	4	1	2
<i>Pseudotsuga menziesii/Acer glabrum</i>	2	5	1	3
<i>Pseudotsuga menziesii/Arnica cordifolia</i>	4		0	1
<i>Pseudotsuga menziesii/Berberis repens</i>	1		0	2
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	5	4	2	3
<i>Pseudotsuga menziesii/Juniperus communis</i>	5		0	1
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	0	4	1	3
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	4		0	1
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	5	7	2	3
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	6		0	1

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Yellowstone Highlands, Section M331A (Cont'd.)				
Evergreen forest (cont'd.)				
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	5	5	1	3
<i>Pseudotsuga menziesii</i> / <i>Vaccinium globulare</i>	3		0	2
Deciduous forest				
<i>Acer grandidentatum</i> / <i>Calamagrostis rubescens</i>	1		0	2
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> / <i>Calamagrostis rubescens</i>	2	5	2	4
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> / <i>Thalictrum fendleri</i>	1		0	2
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> /tall forb	1		0	2
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> / <i>Thalictrum fendleri</i>	1		0	2
<i>Populus tremuloides</i> / <i>Calamagrostis canadensis</i>	0		0	5
<i>Populus tremuloides</i> / <i>Calamagrostis rubescens</i>	3		0	2
<i>Populus tremuloides</i> / <i>Salix scouleriana</i>	3		0	2
<i>Populus tremuloides</i> / <i>Shepherdia canadensis</i>	0		0	5
<i>Populus tremuloides</i> / <i>Stipa comata</i>	1		0	2
<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Calamagrostis rubescens</i>	2	5	2	4
<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> /tall forb	1		0	2
<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Thalictrum fendleri</i>	1		0	2
<i>Populus tremuloides</i> /tall forb	1		0	2
<i>Populus tremuloides</i> / <i>Thalictrum fendleri</i>	2		0	2
<i>Populus tremuloides</i> / <i>Wyethia amplexicaulis</i>	2		0	2
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	5		0	1
Evergreen woodland				
<i>Abies lasiocarpa</i> - <i>Pinus albicaulis</i> / <i>Vaccinium scoparium</i>	1		0	2
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	4		0	1
<i>Picea engelmannii</i> / <i>Cornus stolonifera</i>	1		0	2
<i>Pinus albicaulis</i> / <i>Carex geyeri</i>	4		0	1
<i>Pinus albicaulis</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Pinus albicaulis</i> / <i>Juniperus communis</i>	3		0	2
<i>Pinus flexilis</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Pinus flexilis</i> / <i>Juniperus communis</i>	1		0	2
<i>Pinus flexilis</i> / <i>Leucopoa kingii</i>	2		0	2
<i>Pseudotsuga menziesii</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	1		0	2
Evergreen shrubland				
<i>Artemisia cana viscidula</i> / <i>Deschampsia cespitosa</i>	0		0	5
<i>Artemisia cana viscidula</i> / <i>Festuca idahoensis</i>	0		0	5
<i>Artemisia tridentata tridentata</i> / <i>Festuca idahoensis</i>	4		0	1
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Bromus carinatus</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Yellowstone Highlands, Section M331A (Cont'd.)				
Evergreen shrubland (cont'd.)				
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Carex geyeri</i>	0		0	5
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Festuca idahoensis</i>	1	3	1	3
<i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	2	5	1	3
<i>Artemisia tridentata vaseyana</i> / <i>Bromus carinatus</i>	3		0	2
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	4		0	1
Deciduous shrubland				
<i>Alnus incana</i> /mesic forb	0		0	5
<i>Alnus incana</i> /mesic graminoid	0		0	5
<i>Alnus incana</i> / <i>Ribes hudsonianum</i>	2		0	2
<i>Betula glandulosa</i> / <i>Carex utriculata</i>	0		0	5
<i>Cornus stolonifera</i> / <i>Galium trifolium</i>	2		0	2
<i>Cornus stolonifera</i> / <i>Heracleum lanatum</i>	1		0	2
<i>Potentilla fruticosa</i> / <i>Deschampsia cespitosa</i>	0		0	5
<i>Prunus virginiana</i> / <i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i>	0	3	1	3
<i>Salix boothii</i> / <i>Calamagrostis canadensis</i>	1		0	2
<i>Salix boothii</i> / <i>Carex utriculata</i>	3	3	1	3
<i>Salix boothii</i> / <i>Equisetum arvense</i>	1		0	2
<i>Salix boothii</i> /mesic graminoid	0	4	1	3
<i>Salix boothii</i> / <i>Smilacina stellata</i>	3		0	2
<i>Salix candida</i> / <i>Carex utriculata</i>	0		0	5
<i>Salix drummondiana</i>	0		0	5
<i>Salix drummondiana</i> / <i>Carex utriculata</i>	0		0	5
<i>Salix geyeriana</i> / <i>Calamagrostis canadensis</i>	0		0	5
<i>Salix geyeriana</i> / <i>Carex aquatilis</i>	0		0	5
<i>Salix geyeriana</i> / <i>Carex utriculata</i>	0	3	1	3
<i>Salix geyeriana</i> /mesic forb	1		0	2
<i>Salix geyeriana</i> /mesic graminoid	0	5	1	3
<i>Salix geyeriana</i> / <i>Poa palustris</i>	2	4	1	3
<i>Salix lasiandra</i> /mesic forb	0	3	1	3
<i>Salix planifolia</i>	1		0	2
<i>Salix planifolia monica</i> / <i>Carex aquatilis</i> - <i>Carex utriculata</i>	0	3	1	3
<i>Salix wolfii</i> / <i>Carex aquatilis</i>	2		0	2
<i>Salix wolfii</i> / <i>Carex utriculata</i>	1	3	1	3
Evergreen dwarf-shrubland				
<i>Artemisia nova</i> / <i>Agropyron spicatum</i>	1		0	2
Perennial graminoid vegetation				
<i>Agropyron spicatum</i> - <i>Poa secunda</i>	4		0	1
<i>Artemisia arbuscula thermopola</i> / <i>Festuca idahoensis</i>	0		0	5
<i>Artemisia tridentata tridentata</i> / <i>Agropyron spicatum</i>	4		0	1

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Yellowstone Highlands, Section M331A (Cont'd.)				
Perennial graminoid vegetation (con't.d)				
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	5		0	1
<i>Artemisia tripartita/Agropyron spicatum</i>	2		0	2
<i>Artemisia tripartita/Festuca idahoensis</i>	1		0	2
<i>Calamagrostis canadensis</i>	0		0	5
<i>Carex aquatilis</i>	0	3	2	4
<i>Carex buxbaumii</i>	0	1	1	2
<i>Carex lanuginosa</i>	0	1	1	3
<i>Carex lasiocarpa</i>	0		0	5
<i>Carex limosa</i>	0		0	5
<i>Carex microptera</i>	2		0	2
<i>Carex nebraskensis</i>	2	7	3	4
<i>Carex praegracilis-Carex aquatilis</i>	0		0	5
<i>Carex scopulorum</i>	0		0	5
<i>Carex simulata</i>	2	5	2	4
<i>Carex utriculata</i>	3	7	6	4
<i>Carex vesicaria</i>	0		0	5
<i>Deschampsia cespitosa</i>	3	7	3	4
<i>Distichlis stricta stricta</i>	0	1	1	2
<i>Dulichium arundinaceum</i>	0		0	5
<i>Eleocharis acicularis</i>	0		0	5
<i>Eleocharis palustris</i> (wetland/riparian)	0	4	3	4
<i>Eleocharis pauciflora-Carex aquatilis, Carex livida</i> phase	0		0	5
<i>Eleocharis pauciflora</i>	0		0	5
<i>Festuca idahoensis-Agropyron spicatum</i>	5		0	1
<i>Festuca idahoensis-Deschampsia cespitosa</i>	0		0	5
<i>Glyceria borealis</i>	0		0	5
<i>Juncus balticus</i>	0	6	3	4
<i>Phalaris arundinacea</i>	0		0	5
<i>Scirpus acutus</i>	0	1	1	2
Perennial forb vegetation				
<i>Artemisia ludoviciana</i>	0	1	1	3
<i>Caltha leptosepala</i>	0		0	5
<i>Veratrum californicum</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Overthrust Mountains, Section M331D				
Evergreen forest				
<i>Abies lasiocarpa/Acer glabrum</i>	4	7	4	4
<i>Abies lasiocarpa/Actaea rubra</i>	1	1	1	3
<i>Abies lasiocarpa/Arnica cordifolia</i>	4	1	1	1
<i>Abies lasiocarpa/Arnica latifolia</i>	1	5	1	3
<i>Abies lasiocarpa/Berberis repens</i>	6	1	2	2
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	1		0	2
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	5	3	3	3
<i>Abies lasiocarpa/Carex geyeri</i>	1		0	2
<i>Abies lasiocarpa/Carex rossii</i>	1		0	2
<i>Abies lasiocarpa/Ledum glandulosum</i>	0		0	5
<i>Abies lasiocarpa/Linnaea borealis</i>	1		0	2
<i>Abies lasiocarpa/Osmorhiza chilensis</i>	2	3	4	4
<i>Abies lasiocarpa/Pedicularis racemosa</i>	5	4	1	2
<i>Abies lasiocarpa/Physocarpus malvaceus</i>	5	5	3	4
<i>Abies lasiocarpa/Ribes montigenum</i>	2	6	2	4
<i>Abies lasiocarpa/Spiraea betulifolia</i>	2		0	2
<i>Abies lasiocarpa/Symphoricarpos albus</i>	4	1	1	1
<i>Abies lasiocarpa/Thalictrum occidentale</i>	3		0	2
<i>Abies lasiocarpa/Vaccinium globulare</i>	7	6	4	4
<i>Abies lasiocarpa/Vaccinium scoparium</i>	3	6	3	4
<i>Picea engelmannii/Calamagrostis canadensis</i>	1	1	1	2
<i>Picea engelmannii/Caltha leptosepala</i>	1		0	2
<i>Picea engelmannii/Carex disperma</i>	1		0	2
<i>Picea engelmannii/Equisetum arvense</i>	2		0	2
<i>Picea engelmannii/Galium trifolium</i>	1	2	2	4
<i>Picea engelmannii/Juniperus communis</i>	3		0	2
<i>Picea engelmannii/Ribes montigenum</i>	4		0	1
<i>Picea glauca/Equisetum arvense</i>	1		0	2
<i>Pinus albicaulis/Carex rossii</i>	3		0	2
<i>Pinus albicaulis/Vaccinium scoparium</i>	4	4	1	3
<i>Pinus contorta/Arnica cordifolia</i>	1		0	2
<i>Pinus contorta/Calamagrostis rubescens</i>	1		0	2
<i>Pinus contorta/Spiraea betulifolia</i>	1		0	2
<i>Pinus contorta/Vaccinium globulare</i>	1		0	2
<i>Pinus contorta/Vaccinium scoparium</i>	1		0	2
<i>Pseudotsuga menziesii/Acer glabrum</i>	4	7	5	4
<i>Pseudotsuga menziesii/Arnica cordifolia</i>	1		0	2
<i>Pseudotsuga menziesii/Berberis repens</i>	5	4	3	4
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	5	4	5	4
<i>Pseudotsuga menziesii/Juniperus communis</i>	1	1	1	2
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	3	4	3	4
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	1	5	3	4
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	4	1	1	1
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	4		0	1
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	2	2	1	3
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Overthrust Mountains, Section M331D (Cont'd.)				
Deciduous forest				
<i>Acer grandidentatum/Berberis repens</i>	0	3	1	3
<i>Acer grandidentatum/Calamagrostis rubescens</i>	0	4	2	4
<i>Acer grandidentatum/Juniperus scopulorum</i>	0	5	1	3
<i>Acer grandidentatum/Osmorhiza chilensis</i>	0	3	2	4
<i>Acer negundo/Cornus stolonifera</i>	1		0	2
<i>Acer negundo/Equisetum arvense</i>	1		0	2
<i>Acer negundo/Osmorhiza chilensis</i>	0	2	1	3
<i>Populus angustifolia/Acer grandidentatum</i>	1		0	2
<i>Populus angustifolia/Betula occidentalis</i>	1		0	2
<i>Populus angustifolia/Chrysopsis villosa</i>	1		0	2
<i>Populus angustifolia/Elaeagnus commutata</i>	1		0	2
<i>Populus tremuloides/Amelanchier alnifolia-</i> <i>Symphoricarpos oreophilus/Bromus carinatus</i>	1		0	2
<i>Populus tremuloides/Amelanchier alnifolia-</i> <i>Symphoricarpos oreophilus/Calamagrostis rubescens</i>	3	4	2	4
<i>Populus tremuloides/Amelanchier alnifolia-</i> <i>Symphoricarpos oreophilus/tall forb</i>	1		0	2
<i>Populus tremuloides/Amelanchier alnifolia-</i> <i>Symphoricarpos oreophilus/Thalictrum fendleri</i>	1		0	2
<i>Populus tremuloides/Amelanchier alnifolia/tall forb</i>	2		0	2
<i>Populus tremuloides/Amelanchier alnifolia/</i> <i>Thalictrum fendleri</i>	2		0	2
<i>Populus tremuloides/Bromus carinatus</i>	1		0	2
<i>Populus tremuloides/Calamagrostis rubescens</i>	5		0	1
<i>Populus tremuloides/Juniperus communis/</i> <i>Carex geyeri</i>	1		0	2
<i>Populus tremuloides/Rubus parviflorus</i>	1		0	2
<i>Populus tremuloides/Shepherdia canadensis</i>	1		0	2
<i>Populus tremuloides/Stipa comata</i>	1		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/</i> <i>Bromus carinatus</i>	1		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/</i> <i>Calamagrostis rubescens</i>	2		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/</i> <i>tall forb</i>	2		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/</i> <i>Thalictrum fendleri</i>	1		0	2
<i>Populus tremuloides/tall forb</i>	3	1	1	3
<i>Populus tremuloides/Thalictrum fendleri</i>	1	2	1	3
<i>Populus tremuloides/Wyethia amplexicaulis</i>	2		0	2
<i>Populus trichocarpa/Cornus stolonifera</i>	1		0	2
<i>Populus trichocarpa/recent alluvial bar</i>	1		0	2
Evergreen woodland				
<i>Abies lasiocarpa/Juniperus communis</i>	1		0	2
<i>Juniperus osteosperma-Cercocarpus ledifolius/</i> <i>Symphoricarpos oreophilus/Agropyron spicatum</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Overthrust Mountains, Section M331D (Cont'd.)				
Evergreen woodland (cont'd.)				
<i>Juniperus osteosperma</i> / <i>Artemisia arbuscula arbuscula</i> / <i>Agropyron spicatum</i>	4	1	1	2
<i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Agropyron</i> <i>spicatum</i>	1	3	1	3
<i>Juniperus osteosperma</i> / <i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	4	1	1	2
<i>Picea engelmannii</i> / <i>Cornus stolonifera</i>	1	1	1	3
<i>Pinus albicaulis</i> / <i>Juniperus communis</i>	3		0	2
<i>Pinus flexilis</i> / <i>Cercocarpus ledifolius</i>	2	2	1	3
<i>Pinus flexilis</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Pinus flexilis</i> / <i>Leucopoa kingii</i>	1	3	1	3
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	2	4	3	4
<i>Pseudotsuga menziesii</i> / <i>Juniperus scopulorum</i>	1		0	2
Deciduous woodland				
<i>Populus angustifolia</i> / <i>Cornus stolonifera</i>	1		0	2
Evergreen shrubland				
<i>Artemisia cana viscidula</i> / <i>Deschampsia cespitosa</i>	1		0	2
<i>Artemisia cana viscidula</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Artemisia tridentata spiciformis</i> / <i>Bromus carinatus</i>	1		0	2
<i>Artemisia tridentata spiciformis</i> / <i>Carex geyeri</i>	1		0	2
<i>Artemisia tridentata tridentata</i> / <i>Elymus cinereus</i>	0	2	1	3
<i>Artemisia tridentata tridentata</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Artemisia tridentata tridentata</i> / <i>Stipa comata</i>	1		0	2
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	4	6	5	4
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Carex geyeri</i>	1		0	2
<i>Artemisia tridentata vaseyana</i> - <i>Symphoricarpos oreophilus</i> / <i>Festuca idahoensis</i>	5		0	1
<i>Artemisia tridentata vaseyana</i> / <i>Agropyron spicatum</i>	4	3	3	4
<i>Artemisia tridentata vaseyana</i> / <i>Bromus carinatus</i>	0	2	2	4
<i>Artemisia tridentata vaseyana</i> / <i>Elymus cinereus</i>	0	1	1	2
<i>Artemisia tridentata vaseyana</i> / <i>Leucopoa kingii</i>	0	3	1	3
<i>Artemisia tridentata wyomingensis</i> / <i>Poa secunda</i>	1		0	2
<i>Artemisia tridentata wyomingensis</i> / <i>Stipa comata</i>	1		0	2
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	3	5	4	4
<i>Cercocarpus ledifolius</i> / <i>Artemisia tridentata vaseyana</i>	4		0	1
<i>Cercocarpus ledifolius</i> / <i>Leucopoa kingii</i>	4	3	1	3
Deciduous shrubland				
<i>Alnus incana</i> / <i>Cornus stolonifera</i>	1	1	1	3
<i>Alnus incana</i> / <i>Equisetum arvense</i>	1		0	2
<i>Alnus incana</i> /mesic forb	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Overthrust Mountains, Section M331D (Cont'd.)				
Deciduous shrubland (cont'd.)				
<i>Alnus incana</i> /mesic graminoid	1		0	2
<i>Alnus incana</i> / <i>Ribes hudsonianum</i>	1	1	1	2
<i>Betula glandulosa</i> / <i>Carex simulata</i>	1		0	2
<i>Betula occidentalis</i>	0		0	5
<i>Betula occidentalis</i> / <i>Cornus stolonifera</i>	3		0	2
<i>Betula occidentalis</i> /mesic forb	1		0	2
<i>Betula occidentalis</i> / <i>Prunus virginiana</i>	0		0	5
<i>Cornus stolonifera</i>	0	1	1	2
<i>Cornus stolonifera</i> / <i>Galium trifolium</i>	1		0	2
<i>Cornus stolonifera</i> / <i>Heracleum lanatum</i>	3	1	1	2
<i>Crataegus douglasii</i> / <i>Heracleum lanatum</i>	0		0	5
<i>Elaeagnus commutata</i>	1		0	2
<i>Potentilla fruticosa</i> / <i>Deschampsia cespitosa</i>	1		0	2
<i>Rhamnus alnifolia</i>	3		0	2
<i>Salix bebbiana</i>	1		0	2
<i>Salix bebbiana</i> /mesic graminoid	1		0	2
<i>Salix boothii</i> / <i>Calamagrostis canadensis</i>	1	1	1	2
<i>Salix boothii</i> / <i>Carex aquatilis</i>	1		0	2
<i>Salix boothii</i> / <i>Carex nebraskensis</i>	1		0	2
<i>Salix boothii</i> / <i>Carex utriculata</i>	1	3	1	3
<i>Salix boothii</i> / <i>Equisetum arvense</i>	1		0	2
<i>Salix boothii</i> /mesic forb	1		0	2
<i>Salix boothii</i> /mesic graminoid	1		0	2
<i>Salix boothii</i> / <i>Poa palustris</i>	1		0	2
<i>Salix boothii</i> / <i>Smilacina stellata</i>	1	1	1	3
<i>Salix exigua</i> /barren	1		0	2
<i>Salix exigua</i> / <i>Equisetum arvense</i>	3		0	2
<i>Salix exigua</i> /mesic forb	1		0	2
<i>Salix exigua</i> /mesic graminoid	1		0	2
<i>Salix geyeriana</i> / <i>Calamagrostis canadensis</i>	1		0	2
<i>Salix geyeriana</i> / <i>Carex aquatilis</i>	2	2	1	3
<i>Salix geyeriana</i> / <i>Carex utriculata</i>	2		0	2
<i>Salix geyeriana</i> / <i>Deschampsia cespitosa</i>	1		0	2
<i>Salix geyeriana</i> /mesic forb	1		0	2
<i>Salix geyeriana</i> /mesic graminoid	2		0	2
<i>Salix geyeriana</i> / <i>Poa palustris</i>	1		0	2
<i>Salix lutea</i>	1		0	2
<i>Salix planifolia</i> / <i>Carex aquatilis</i>	1		0	2
<i>Salix wolfii</i> / <i>Carex aquatilis</i>	1	1	1	3
<i>Salix wolfii</i> / <i>Carex nebraskensis</i>	1		0	2
<i>Salix wolfii</i> / <i>Carex utriculata</i>	1		0	2
<i>Salix wolfii</i> / <i>Deschampsia cespitosa</i>	1		0	2
<i>Salix wolfii</i> /mesic forb	1		0	2
<i>Salix wolfii</i> / <i>Poa palustris</i>	1		0	2
<i>Sarcobatus vermiculatus</i> / <i>Distichlis stricta stricta</i>	0	1	1	3

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Overthrust Mountains, Section M331D (Cont'd.)				
Evergreen dwarf-shrubland				
<i>Artemisia nova/Agropyron spicatum</i>	0	6	3	4
<i>Artemisia nova/Poa secunda</i>	1	2	1	3
Perennial graminoid vegetation				
<i>Agropyron spicatum-Poa secunda</i>	0		0	5
<i>Artemisia arbuscula arbuscula/Agropyron spicatum</i>	0	2	1	3
<i>Artemisia arbuscula arbuscula/Festuca idahoensis</i>	1		0	2
<i>Artemisia arbuscula arbuscula/Poa secunda</i>	0		0	5
<i>Artemisia nova/Festuca idahoensis</i>	1		0	2
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	8		0	1
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	6		0	1
<i>Artemisia tridentata wyomingensis/Agropyron spicatum</i>	1		0	2
<i>Artemisia tripartita/Agropyron spicatum</i>	1		0	2
<i>Artemisia tripartita/Festuca idahoensis</i>	1		0	2
<i>Carex aquatilis</i>	3	1	1	3
<i>Carex lanuginosa</i>	1		0	2
<i>Carex lasiocarpa</i>	0		0	5
<i>Carex microptera</i>	2		0	2
<i>Carex nebraskensis</i>	2		0	2
<i>Carex praegracilis-Carex aquatilis</i>	0		0	5
<i>Carex simulata</i>	2	3	1	3
<i>Carex utriculata</i>	3	4	2	4
<i>Deschampsia cespitosa</i>	2	5	1	3
<i>Distichlis stricta stricta</i>	0	1	1	3
<i>Eleocharis acicularis</i>	0	1	1	2
<i>Eleocharis palustris</i> (wetland/riparian)	1	1	1	3
<i>Eleocharis rostellata</i> Herbaceous Vegetation	0		0	5
<i>Elymus cinereus</i>	0		0	5
<i>Hordeum jubatum</i>	0		0	5
<i>Juncus balticus</i>	1	4	1	3
<i>Phalaris arundinacea</i>	0	2	1	3
<i>Potentilla fruticosa/Festuca idahoensis</i>	1		0	2
<i>Purshia tridentata/Agropyron spicatum</i>	4	2	1	2
<i>Purshia tridentata/Stipa comata</i>	3		0	2
<i>Scirpus acutus</i>	0	5	1	3
<i>Scirpus americanus</i>	0		0	5
<i>Scirpus maritimus</i>	0	1	1	3
<i>Scirpus validus</i>	0		0	5
<i>Spartina gracilis</i>	0	1	1	3
Perennial forb vegetation				
<i>Caltha leptosepala</i>	1	1	1	3
<i>Mertensia ciliata</i>	2	1	1	3
<i>Veratrum californicum</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Idaho Batholith, Section M332A				
Evergreen forest				
<i>Abies grandis/Acer glabrum</i>	5	4	1	2
<i>Abies grandis/Adiantum pedatum</i>	0	1	1	2
<i>Abies grandis/Asarum caudatum</i>	4	4	2	4
<i>Abies grandis/Clintonia uniflora</i>	5	6	4	4
<i>Abies grandis/Coptis occidentalis</i>	0	1	1	3
<i>Abies grandis/Linnaea borealis</i>	3	1	2	3
<i>Abies grandis/Physocarpus malvaceus</i>	2	3	3	4
<i>Abies grandis/Senecia triangularis</i>	1		0	2
<i>Abies grandis/Spiraea betulifolia</i>	3	3	2	4
<i>Abies grandis/Taxus brevifolia/Asarum caudatum</i>	3	4	3	4
<i>Abies grandis/Taxus brevifolia/Clintonia uniflora</i>	2	1	1	3
<i>Abies grandis/Vaccinium caespitosum</i>	1		0	2
<i>Abies grandis/Vaccinium globulare</i>	3	4	5	4
<i>Abies grandis/Xerophyllum tenax</i>	5	3	4	3
<i>Abies lasiocarpa/Acer glabrum</i>	3	1	1	3
<i>Abies lasiocarpa/Alnus sinuata</i>	0		0	5
<i>Abies lasiocarpa/Arnica cordifolia</i>	1	1	1	2
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	1	3	8	4
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	4	3	3	4
<i>Abies lasiocarpa/Caltha biflora</i>	1	3	2	4
<i>Abies lasiocarpa/Carex geyeri</i>	5	5	12	4
<i>Abies lasiocarpa/Clintonia uniflora</i>	5	3	2	3
<i>Abies lasiocarpa/Coptis occidentalis</i>	1		0	2
<i>Abies lasiocarpa/Ledum glandulosum</i>	1	3	10	4
<i>Abies lasiocarpa/Linnaea borealis</i>	2		0	2
<i>Abies lasiocarpa/Luzula hitchcockii</i>	3	5	6	4
<i>Abies lasiocarpa/Menziesia ferruginea</i>	4	6	13	4
<i>Abies lasiocarpa/Spiraea betulifolia</i>	3	1	1	3
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	5	3	6	4
<i>Abies lasiocarpa/Vaccinium caespitosum</i>	4	1	2	1
<i>Abies lasiocarpa/Vaccinium globulare</i>	4	3	8	4
<i>Abies lasiocarpa/Vaccinium scoparium</i>	4	5	12	4
<i>Abies lasiocarpa/Xerophyllum tenax</i>	7	7	13	4
<i>Picea engelmannii/Equisetum arvense</i>	0		0	5
<i>Picea engelmannii/Galium trifolium</i>	0	1	1	3
<i>Pinus contorta/Vaccinium caespitosum</i>	1		0	2
<i>Pinus contorta/Vaccinium occidentale</i>	1	2	2	4
<i>Pinus contorta/Vaccinium scoparium</i>	4	1	1	1
<i>Pinus contorta/Xerophyllum tenax</i>	1		0	2
<i>Pinus ponderosa/Physocarpus malvaceus</i>	1	3	1	3
<i>Pinus ponderosa/Symphoricarpos albus</i>	3		0	2
<i>Pinus ponderosa/Symphoricarpos oreophilus</i>	1	3	4	4
<i>Pseudotsuga menziesii/Acer glabrum</i>	2	3	3	4
<i>Pseudotsuga menziesii/Berberis repens</i>	4	1	1	2
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	5	5	9	4
<i>Pseudotsuga menziesii/Carex geyeri</i>	5	5	7	4

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Idaho Batholith, Section M332A (Cont'd.)				
Evergreen forest (cont'd.)				
<i>Pseudotsuga menziesii/Linnaea borealis</i>	1		0	2
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	2	1	1	2
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	6	7	15	4
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	5	5	9	4
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	3	5	7	4
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	1	4	6	4
<i>Pseudotsuga menziesii/Vaccinium caespitosum</i>	1	2	1	3
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	1	3	2	4
<i>Thuja plicata/Adiantum pedatum</i>	2	5	2	4
<i>Thuja plicata/Asarum caudatum</i>	4	1	1	2
<i>Thuja plicata/Athyrium filix-femina</i>	1	1	1	2
<i>Thuja plicata/Clintonia uniflora</i>	4	6	4	4
<i>Thuja plicata/Gymnocarpium dryopteris</i>	1		0	2
<i>Tsuga mertensiana/Clintonia uniflora</i>	1		0	2
<i>Tsuga mertensiana/Menziesia ferruginea</i>	1		0	2
<i>Tsuga mertensiana/Xerophyllum tenax</i>	2		0	2
Deciduous forest				
<i>Alnus rhombifolia/Amelanchier alnifolia</i>	0		0	5
<i>Alnus rhombifolia/Betula occidentalis</i>	0		0	5
<i>Alnus rhombifolia/Celtis reticulata</i>	0		0	5
<i>Alnus rhombifolia/Prunus virginiana</i>	0		0	5
<i>Populus tremuloides/Artemisia tridentata</i>	1		0	2
<i>Populus tremuloides/Symphoricarpos oreophilus/tall forb</i>	1		0	2
<i>Populus trichocarpa/Alnus incana</i>	0		0	5
<i>Populus trichocarpa/Cicuta douglasii</i>	0		0	5
<i>Populus trichocarpa/Cornus stolonifera</i>	0		0	5
<i>Populus trichocarpa/Crataegus douglasii</i>	0		0	5
<i>Populus trichocarpa/Rhamnus alnifolia</i>	0		0	5
<i>Populus trichocarpa/Symphoricarpos albus</i>	0		0	5
Mixed evergreen-deciduous forest				
<i>Alnus rhombifolia-Abies grandis</i>	0		0	5
<i>Larix lyallii-Abies lasiocarpa</i>	0	3	2	4
Evergreen woodland				
<i>Abies grandis/Calamagrostis rubescens</i>	2		0	2
<i>Abies lasiocarpa/Juniperus communis</i>	0	1	2	4
<i>Pinus albicaulis (timberline)</i>	1	3	1	3
<i>Pinus albicaulis-Abies lasiocarpa</i>	5	4	11	4
<i>Pinus contorta/Festuca idahoensis</i>	4	1	1	1
<i>Pinus ponderosa/Agropyron spicatum</i>	4	5	8	4
<i>Pinus ponderosa/Crataegus douglasii</i>	0		0	5
<i>Pinus ponderosa/Festuca idahoensis</i>	3	3	4	4
<i>Pinus ponderosa/Purshia tridentata</i>	4	3	4	4

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Idaho Batholith, Section M332A (Cont'd.)				
Evergreen woodland (cont'd.)				
<i>Pinus ponderosa/Stipa occidentalis</i>	2		0	2
<i>Pseudotsuga menziesii/Agropyron spicatum</i>	3	4	4	4
<i>Pseudotsuga menziesii/Cercocarpus ledifolius</i>	1	2	1	3
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	3	3	5	4
Evergreen shrubland				
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Agropyron spicatum</i>	4	1	1	2
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Carex geyeri</i>	4		0	1
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Festuca idahoensis</i>	4		0	1
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	4	4	8	4
<i>Artemisia tridentata vaseyana/Stipa comata</i>	4		0	1
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	4	4	3	4
<i>Cercocarpus ledifolius/Festuca idahoensis</i>	4		0	1
<i>Cercocarpus ledifolius/Symphoricarpos albus/Festuca idahoensis</i>	4		0	1
Deciduous shrubland				
<i>Alnus incana/Athyrium filix-femina</i>	0		0	5
<i>Alnus incana/Carex utriculata</i>	0		0	5
<i>Alnus incana/Cornus stolonifera</i>	2		0	2
<i>Alnus incana/Equisetum arvense</i>	0		0	5
<i>Alnus incana/mesic forb</i>	0		0	5
<i>Alnus incana/mesic graminoid</i>	0		0	5
<i>Alnus incana/Ribes hudsonianum</i>	0		0	5
<i>Alnus incana/Spiraea douglasii</i>	0		0	5
<i>Alnus sinuata</i>	0	2	2	4
<i>Alnus sinuata/Athyrium filix-femina</i>	0		0	5
<i>Alnus sinuata/mesic forb</i>	0		0	5
<i>Alnus sinuata/Montia cordifolia</i>	0	1	1	3
<i>Betula glandulosa/Carex utriculata</i>	0		0	5
<i>Betula glandulosa/Lonicera caerulea/Senecio pseud aureus</i>	0		0	5
<i>Betula occidentalis</i>	0		0	5
<i>Cornus stolonifera</i>	0		0	5
<i>Cornus stolonifera/Heracleum lanatum</i>	0		0	5
<i>Crataegus douglasii/Symphoricarpos albus</i>	0		0	5
<i>Glossopetalon nevadense/Agropyron spicatum</i>	4	1	3	2
<i>Potentilla fruticosa/Deschampsia cespitosa</i>	0		0	5
<i>Salix boothii/Calamagrostis canadensis</i>	0		0	5
<i>Salix boothii/Carex aquatilis</i>	0		0	5
<i>Salix boothii/Carex utriculata</i>	0		0	5
<i>Salix boothii/Equisetum arvense</i>	0		0	5
<i>Salix commutata/Carex scopulorum</i>	2		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Idaho Batholith, Section M332A (Cont'd.)				
Deciduous shrubland (cont'd.)				
<i>Salix drummondiana/Calamagrostis canadensis</i>	4		0	1
<i>Salix drummondiana/Carex utriculata</i>	1		0	2
<i>Salix eastwoodiae/Carex aquatilis</i>	0		0	5
<i>Salix eastwoodiae/Carex utriculata</i>	0		0	5
<i>Salix exigua</i> /barren	0		0	5
<i>Salix exigua/Rosa woodsii</i>	0		0	5
<i>Salix geyeriana/Calamagrostis canadensis</i>	3		0	2
<i>Salix geyeriana/Carex aquatilis</i>	1		0	2
<i>Salix geyeriana/Carex utriculata</i>	0		0	5
<i>Salix geyeriana/Geum macrophyllum</i>	0		0	5
<i>Salix planifolia monica/Carex aquatilis-Carex utriculata</i>	1		0	2
<i>Salix planifolia monica/Carex scopulorum</i>	0		0	5
<i>Salix wolfii/Carex aquatilis</i>	0		0	5
<i>Salix wolfii/Carex microptera</i>	2		0	2
<i>Salix wolfii/Carex utriculata</i>	2		0	2
<i>Salix wolfii/Swertia perennis-Pedicularis groenlandica</i>	3		0	2
Evergreen dwarf-shrubland				
<i>Cassiope mertensiana/Carex paysonis</i>	0		0	5
<i>Kalmia microphylla/Carex scopulorum</i>	0		0	5
<i>Phyllodoce empetriformis-Ledum glandulosum</i>	0		0	5
<i>Phyllodoce empetriformis/Antennaria lanata</i>	0		0	5
<i>Phyllodoce empetriformis/Carex scopulorum</i>	0		0	5
Deciduous dwarf-shrubland				
<i>Salix nivalis</i>	0		0	5
Perennial graminoid vegetation				
<i>Agropyron scribneri</i>	1		0	2
<i>Agropyron spicatum-Melica bulbosa</i>	2		0	2
<i>Agropyron spicatum-Poa secunda</i>	0	1	1	3
<i>Agropyron spicatum-Poa secunda/Balsamorhiza sagittata</i>	0	3	2	4
<i>Agropyron spicatum/Eriogonum heracleoides</i>	1		0	2
<i>Agrostis exarata-Agrostis scabra</i>	1		0	2
<i>Artemisia arbuscula arbuscula/Agropyron spicatum</i>	0		0	5
<i>Artemisia arbuscula arbuscula/Poa secunda</i>	4		0	1
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	4	3	2	3
<i>Artemisia tridentata vaseyana/Carex geyeri</i>	4		0	1
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	4	4	5	4
<i>Artemisia tripartita/Agropyron spicatum</i>	0	1	1	2
<i>Artemisia tripartita/Festuca idahoensis</i>	0	1	1	2
<i>Bromus spp./Stipa occidentalis</i>	0		0	5
<i>Calamagrostis canadensis</i>	0	2	4	4
<i>Carex aquatilis</i>	0	2	2	4
<i>Carex buxbaumii</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Idaho Batholith, Section M332A (Cont'd.)				
Perennial graminoid vegetation (cont'd.)				
<i>Carex lanuginosa</i>	1		0	2
<i>Carex nebraskensis</i>	1		0	2
<i>Carex nigricans</i>	0	1	1	2
<i>Carex nigricans-Agrostis humilis</i>	0		0	5
<i>Carex paysonis</i>	0		0	5
<i>Carex scirpoidea/Geum rossii</i>	1		0	2
<i>Carex scirpoidea/Potentilla diversifolia</i>	1		0	2
<i>Carex simulata</i>	1		0	2
<i>Carex utriculata</i>	1	2	3	4
<i>Deschampsia cespitosa</i>	3		0	2
<i>Deschampsia cespitosa/Caltha leptosepala</i>	1		0	2
<i>Eleocharis acicularis</i>	1		0	2
<i>Eleocharis palustris</i> (wetland/riparian)	0	1	1	2
<i>Eleocharis pauciflora</i>	1	1	1	3
<i>Eleocharis rostellata</i> herbaceous vegetation	1		0	2
<i>Festuca idahoensis</i> (alpine)	1		0	2
<i>Festuca idahoensis-Agropyron spicatum</i>	1	3	3	4
<i>Festuca idahoensis-Carex geyeri</i>	1		0	2
<i>Juncus balticus</i>	1		0	2
<i>Juncus drummondii-Carex</i> spp.	1		0	2
<i>Potentilla fruticosa/Danthonia intermedia</i>	2		0	2
<i>Purshia tridentata-Agropyron spicatum</i>	4	1	3	2
<i>Purshia tridentata/Festuca idahoensis</i>	4		0	1
<i>Scirpus cespitosus-Carex livida</i>	0	1	1	3
Perennial forb vegetation				
<i>Caltha leptosepala</i>	0	1	1	3
<i>Camassia quamash</i>	0		0	5
<i>Geum rossii</i>	1		0	2
<i>Ivesia gordonii-Arenaria obtusiloba</i>	1		0	2
<i>Ivesia gordonii-Eriogonum caespitosum</i>	1		0	2
<i>Saxifraga oppositifolia</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Beaverhead Mountains, Section M332E				
Evergreen forest				
<i>Abies lasiocarpa/Acer glabrum</i>	1		0	2
<i>Abies lasiocarpa/Alnus sinuata</i>	0		0	5
<i>Abies lasiocarpa/Arnica cordifolia</i>	6	4	2	3
<i>Abies lasiocarpa/Arnica latifolia</i>	3		0	2
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	1	1	1	2
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	5	6	3	4
<i>Abies lasiocarpa/Carex geyeri</i>	1	1	1	2
<i>Abies lasiocarpa/Ledum glandulosum</i>	1	1	2	3
<i>Abies lasiocarpa/Linnaea borealis</i>	1	1	2	4
<i>Abies lasiocarpa/Menziesia ferruginea</i>	0	3	3	4
<i>Abies lasiocarpa/Ribes montigenum</i>	5	4	3	4
<i>Abies lasiocarpa/Spiraea betulifolia</i>	4		0	1
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	1	2	1	3
<i>Abies lasiocarpa/Symphoricarpos albus</i>	1		0	2
<i>Abies lasiocarpa/Thalictrum occidentale</i>	1	4	1	3
<i>Abies lasiocarpa/Vaccinium caespitosum</i>	1		0	2
<i>Abies lasiocarpa/Vaccinium globulare</i>	1	2	1	3
<i>Abies lasiocarpa/Vaccinium scoparium</i>	1	7	6	4
<i>Abies lasiocarpa/Xerophyllum tenax</i>	0	6	2	4
<i>Picea engelmannii/Arnica cordifolia</i>	0	3	1	3
<i>Picea engelmannii/Carex disperma</i>	2	4	2	4
<i>Picea engelmannii/Equisetum arvense</i>	1		0	2
<i>Picea engelmannii/Galium trifolium</i>	1		0	2
<i>Picea engelmannii/Hypnum revolutum</i>	3	5	2	4
<i>Picea engelmannii/Juniperus communis</i>	1	4	2	4
<i>Picea engelmannii/Ribes montigenum</i>	0	1	1	3
<i>Pinus albicaulis/Carex rossii</i>	1		0	2
<i>Pinus albicaulis/Vaccinium scoparium</i>	4	5	4	4
<i>Pinus ponderosa/Symphoricarpos albus</i>	1		0	2
<i>Pseudotsuga menziesii/Acer glabrum</i>	1		0	2
<i>Pseudotsuga menziesii/Arnica cordifolia</i>	4	5	3	4
<i>Pseudotsuga menziesii/Berberis repens</i>	1		0	2
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	6	7	5	4
<i>Pseudotsuga menziesii/Carex geyeri</i>	1	4	2	4
<i>Pseudotsuga menziesii/Juniperus communis</i>	4	4	5	4
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	1		0	2
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	1	1	1	3
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	3	3	2	4
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	2	2	1	3
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	2	6	5	4
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	0	1	1	3
Deciduous forest				
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Calamagrostis rubescens</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Beaverhead Mountains, Section M332E (Cont'd.)				
Deciduous forest (cont'd.)				
<i>Populus tremuloides</i> /Amelanchier alnifolia- Symphoricarpos oreophilus/Thalictrum fendleri	1		0	2
<i>Populus tremuloides</i> /Calamagrostis rubescens	4		0	1
<i>Populus tremuloides</i> /Shepherdia canadensis	1		0	2
<i>Populus tremuloides</i> /Stipa comata	1		0	2
<i>Populus tremuloides</i> /Symphoricarpos oreophilus/ Calamagrostis rubescens	3		0	2
<i>Populus tremuloides</i> /Symphoricarpos oreophilus/tall forb	1		0	2
<i>Populus tremuloides</i> /Symphoricarpos oreophilus/ Thalictrum fendleri	1		0	2
<i>Populus tremuloides</i> /tall forb	1		0	2
<i>Populus tremuloides</i> /Thalictrum fendleri	1		0	2
<i>Populus tremuloides</i> /Wyethia amplexicaulis	1		0	2
<i>Populus trichocarpa</i> /Cornus stolonifera	3		0	2
Mixed evergreen-deciduous forest				
<i>Larix lyallii</i> - <i>Abies lasiocarpa</i>	0	2	1	3
Evergreen woodland				
<i>Abies lasiocarpa</i> /Juniperus communis	1	3	2	4
<i>Juniperus osteosperma</i> /Artemisia arbuscula arbuscula/ Festuca idahoensis	2		0	2
<i>Juniperus osteosperma</i> /Artemisia nova/ Agropyron spicatum	2		0	2
<i>Juniperus osteosperma</i> /Artemisia nova/Poa secunda	0		0	5
<i>Juniperus osteosperma</i> /Artemisia tridentata vaseyana/ Agropyron spicatum	2		0	2
<i>Juniperus osteosperma</i> /Artemisia tridentata vaseyana/ Festuca idahoensis	2		0	2
<i>Picea engelmannii</i> /Cornus stolonifera	1		0	2
<i>Pinus albicaulis</i> (timberline)	1	4	2	4
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	0	7	6	4
<i>Pinus albicaulis</i> /Carex geyeri	1	2	1	3
<i>Pinus albicaulis</i> /Festuca idahoensis	3	5	3	4
<i>Pinus albicaulis</i> /Juniperus communis	0	4	3	4
<i>Pinus contorta</i> /Festuca idahoensis	1		0	2
<i>Pinus flexilis</i> (timberline)	0	3	1	3
<i>Pinus flexilis</i> /Cercocarpus ledifolius	0	2	1	3
<i>Pinus flexilis</i> /Festuca idahoensis	1	3	2	4
<i>Pinus flexilis</i> /Juniperus communis	0	2	1	3
<i>Pinus flexilis</i> /Leucopoa kingii	1	2	1	3
<i>Pinus flexilis</i> /Potentilla fruticosa/Distichlis stricta stricta	0		0	5
<i>Pseudotsuga menziesii</i> /Agropyron spicatum	0	4	2	4
<i>Pseudotsuga menziesii</i> /Cercocarpus ledifolius	1	6	4	4
<i>Pseudotsuga menziesii</i> /Festuca idahoensis	1	4	4	4
<i>Pseudotsuga menziesii</i> /Juniperus scopulorum	0	1	1	3
<i>Pseudotsuga menziesii</i> /Leucopoa kingii	0	1	1	3

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Beaverhead Mountains, Section M332E (Cont'd.)				
Evergreen shrubland				
<i>Artemisia cana viscidula/Deschampsia cespitosa</i>	1		0	2
<i>Artemisia tridentata spiciformis/Bromus carinatus</i>	4		0	1
<i>Artemisia tridentata vaseyana-</i> <i>Symphoricarpos oreophilus/Agropyron spicatum</i>	2		0	2
<i>Artemisia tridentata vaseyana-</i> <i>Symphoricarpos oreophilus/Bromus carinatus</i>	2		0	2
<i>Artemisia tridentata vaseyana-</i> <i>Symphoricarpos oreophilus/Carex geyeri</i>	1		0	2
<i>Artemisia tridentata vaseyana-</i> <i>Symphoricarpos oreophilus/Festuca idahoensis</i>	5		0	1
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	5	3	2	3
<i>Artemisia tridentata vaseyana/Bromus carinatus</i>	4		0	1
<i>Artemisia tridentata vaseyana/Stipa comata</i>	3		0	2
<i>Artemisia tridentata wyomingensis/Elymus</i> <i>ambiguus salmonis</i>	2		0	2
<i>Artemisia tridentata wyomingensis/Festuca idahoensis</i>	2		0	2
<i>Atriplex confertifolia/Agropyron spicatum</i>	1		0	2
<i>Atriplex confertifolia/Elymus ambiguus salmonis</i>	0		0	5
<i>Atriplex confertifolia/Oryzopsis hymenoides</i>	0	1	1	2
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	2	4	3	4
<i>Cercocarpus ledifolius/Artemisia tridentata vaseyana</i>	1		0	2
<i>Cercocarpus ledifolius/Artemisia tridentata/</i> <i>Festuca idahoensis</i>	2		0	2
<i>Cercocarpus ledifolius/Festuca idahoensis</i>	2		0	2
Deciduous shrubland				
<i>Alnus incana-Betula occidentalis/Salix exigua</i>	0	1	1	3
<i>Alnus incana/Cornus stolonifera</i>	1		0	2
<i>Alnus incana/Ribes hudsonianum</i>	1		0	2
<i>Betula glandulosa/Carex utriculata</i>	1		0	2
<i>Betula glandulosa/Lonicera caerulea/Senecio</i> <i>pseudaureus</i>	1		0	2
<i>Betula occidentalis</i>	0		0	5
<i>Betula occidentalis/Cornus stolonifera</i>	0	1	1	3
<i>Cornus stolonifera/Galium trifolium</i>	1		0	2
<i>Cornus stolonifera/Heracleum lanatum</i>	1		0	2
<i>Salix boothii/Calamagrostis canadensis</i>	1		0	2
<i>Salix boothii/Carex aquatilis</i>	1		0	2
<i>Salix boothii/Carex nebraskensis</i>	1		0	2
<i>Salix boothii/Carex utriculata</i>	3		0	2
<i>Salix boothii/Equisetum arvense</i>	3		0	2
<i>Salix boothii/mesic forb</i>	1		0	2
<i>Salix boothii/Smilacina stellata</i>	3		0	2
<i>Salix drummondiana/Calamagrostis canadensis</i>	1		0	2
<i>Salix drummondiana/Carex utriculata</i>	1		0	2
<i>Salix eastwoodiae/Carex aquatilis</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Beaverhead Mountains, Section M332E (Cont'd.)				
Deciduous shrubland (cont'd.)				
<i>Salix eastwoodiae/Carex utriculata</i>	1		0	2
<i>Salix geyeriana/Calamagrostis canadensis</i>	1	1	1	2
<i>Salix geyeriana/Carex utriculata</i>	1	2	2	4
<i>Salix geyeriana/mesic forb</i>	1		0	2
<i>Salix geyeriana/mesic graminoid</i>	1		0	2
<i>Salix geyeriana/Poa palustris</i>	1		0	2
<i>Salix lutea</i>	2		0	2
<i>Salix planifolia</i>	1		0	2
<i>Salix planifolia monica/Carex aquatilis-Carex utriculata</i>	1		0	2
<i>Salix planifolia monica/Carex scopulorum</i>	1		0	2
<i>Salix wolfii/Calamagrostis canadensis</i>	1		0	2
<i>Salix wolfii/Carex aquatilis</i>	1		0	2
<i>Salix wolfii/Carex nebraskensis</i>	1		0	2
<i>Salix wolfii/Carex utriculata</i>	1		0	2
<i>Salix wolfii/mesic forb</i>	1		0	2
<i>Salix wolfii/Poa palustris</i>	1		0	2
Evergreen dwarf-shrubland				
<i>Artemisia nova/Agropyron spicatum</i>	6	5	1	2
<i>Artemisia nova/Oryzopsis hymenoides</i>	1		0	2
<i>Artemisia nova/Poa secunda</i>	1		0	2
<i>Cassiope mertensiana/Carex paysonis</i>	2		0	2
<i>Phyllodoce empetrifloris/Antennaria lanata</i>	1		0	2
Deciduous dwarf-shrubland				
<i>Haplopappus suffruticosus/Festuca idahoensis</i>	1		0	2
<i>Haplopappus suffruticosus/Sitanion hystrix</i>	1		0	2
<i>Salix nivalis</i>	1		0	2
Perennial graminoid vegetation				
<i>Agropyron scribneri</i>	1		0	2
<i>Artemisia arbuscula arbuscula/Agropyron spicatum</i>	4		0	1
<i>Artemisia arbuscula arbuscula/Elymus ambiguus salmonis</i>	1		0	2
<i>Artemisia arbuscula arbuscula/Festuca idahoensis</i>	5		0	1
<i>Artemisia arbuscula thermopola/Festuca idahoensis</i>	0		0	5
<i>Artemisia nova/Elymus ambiguus salmonis</i>	0	1	1	2
<i>Artemisia nova/Festuca idahoensis</i>	1		0	2
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	2		0	2
<i>Artemisia tridentata vaseyana/Carex geyeri</i>	3		0	2
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	8	5	6	3
<i>Artemisia tridentata wyomingensis/Agropyron spicatum</i>	4		0	1
<i>Artemisia tripartita/Agropyron spicatum</i>	1		0	2
<i>Artemisia tripartita/Festuca idahoensis</i>	0	3	1	3
<i>Calamagrostis canadensis</i>	0	1	1	3
<i>Calamagrostis purpurescens</i>	1	3	1	3

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Beaverhead Mountains, Section M332E (Cont'd.)				
Perennial graminoid vegetation (cont'd.)				
<i>Carex aquatilis</i>	2	1	2	4
<i>Carex elynoides/Lupinus argenteus</i>	1	1	1	2
<i>Carex elynoides/Oxytropis sericea</i>	1	1	1	2
<i>Carex lanuginosa</i>	0		0	5
<i>Carex microptera</i>	1		0	2
<i>Carex nebraskensis</i>	2		0	2
<i>Carex nigricans</i>	1		0	2
<i>Carex rupestris</i>	1	3	1	3
<i>Carex scirpoidea/Geum rossii</i>	1		0	2
<i>Carex scirpoidea/Potentilla diversifolia</i>	1		0	2
<i>Carex scopulorum</i>	1		0	2
<i>Carex simulata</i>	0		0	5
<i>Carex stenophylla-Poa secunda</i>	0		0	5
<i>Carex utriculata</i>	3	1	2	4
<i>Deschampsia cespitosa</i>	1	1	2	4
<i>Deschampsia cespitosa/Caltha leptosepala</i>	3		0	2
<i>Deschampsia cespitosa/Potentilla diversifolia</i>	1		0	2
<i>Dryas octopetala</i>	0		0	5
<i>Dryas octopetala-Polygonum viviparum</i>	1		0	2
<i>Dryas octopetala/Carex rupestris</i>	3		0	2
<i>Elymus ambiguus salmonis/Enceliopsis nudicaulis</i>	0		0	5
<i>Elymus ambiguus salmonis/Lupinus argenteus</i>	0		0	5
<i>Eleocharis palustris</i> (wetland/riparian)	0		0	5
<i>Eleocharis pauciflora</i>	0	1	1	3
<i>Festuca idahoensis</i> (alpine)	0	1	1	3
<i>Festuca idahoensis-Agropyron spicatum</i>	1	4	2	4
<i>Festuca idahoensis-Carex geyeri</i>	1		0	2
<i>Festuca idahoensis-Deschampsia cespitosa</i>	1		0	2
<i>Festuca idahoensis-Leucopoa kingii</i>	1		0	2
<i>Festuca idahoensis/Eriogonum caespitosum</i>	1		0	2
<i>Festuca idahoensis/Potentilla diversifolia</i>	1		0	2
<i>Juncus balticus</i>	1		0	2
<i>Juncus drummondii-Carex</i> spp.	1		0	2
<i>Juniperus osteosperma/Elymus ambiguus salmonis</i>	2		0	2
<i>Juniperus osteosperma/Stipa comata</i>	2		0	2
<i>Leucopoa kingii-Carex elynoides</i>	1	1	1	2
<i>Leucopoa kingii-Poa cusickii</i>	1		0	2
<i>Leucopoa kingii/Achillea millefolium</i>	1	1	1	3
<i>Leucopoa kingii/Oxytropis campestris</i>	1		0	2
<i>Leucopoa kingii/Phlox pulvinata</i>	1	1	1	2
<i>Poa epilis</i>	1		0	2
<i>Potentilla fruticosa/Festuca idahoensis</i>	1		0	2
Perennial forb vegetation				
<i>Caltha leptosepala</i>	1		0	2
<i>Geum rossii</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Beaverhead Mountains, Section M332E (Cont'd.)				
Perennial forb vegetation (cont'd.)				
<i>Geum rossii</i> / <i>Arenaria obtusiloba</i>	1		0	2
<i>Ivesia gordonii</i> - <i>Arenaria obtusiloba</i>	1		0	2
<i>Ivesia gordonii</i> - <i>Eriogonum caespitosum</i>	1		0	2
<i>Mertensia ciliata</i>	1		0	2
<i>Phlox pulvinata</i> / <i>Poa epilis</i>	1		0	2
<i>Potentilla ovina</i> / <i>Agropyron scribneri</i>	1		0	2
<i>Saxifraga oppositifolia</i>	1		0	2
<i>Veratrum californicum</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Challis Volcanics, Section M332F				
Evergreen forest				
<i>Abies lasiocarpa</i> / <i>Arnica cordifolia</i>	4	3	1	3
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i>	1	3	1	3
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i>	4	5	1	3
<i>Abies lasiocarpa</i> / <i>Caltha biflora</i>	3	1	1	2
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	6	7	4	4
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	2	6	4	4
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	0	6	2	4
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	0	6	2	4
<i>Abies lasiocarpa</i> / <i>Ribes montigenum</i>	3	6	1	3
<i>Abies lasiocarpa</i> / <i>Spiraea betulifolia</i>	3		0	2
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	4	2	1	2
<i>Abies lasiocarpa</i> / <i>Vaccinium caespitosum</i>	1		0	2
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i>	0	5	1	3
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	8	7	3	4
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	0	5	1	3
<i>Picea engelmannii</i> / <i>Carex disperma</i>	3		0	2
<i>Picea engelmannii</i> / <i>Equisetum arvense</i>	0		0	5
<i>Pinus contorta</i> / <i>Vaccinium occidentale</i>	0		0	5
<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	3		0	2
<i>Pseudotsuga menziesii</i> / <i>Arnica cordifolia</i>	5	5	1	3
<i>Pseudotsuga menziesii</i> / <i>Berberis repens</i>	4		0	1
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	4	2	1	2
<i>Pseudotsuga menziesii</i> / <i>Carex geyeri</i>	4	3	1	3
<i>Pseudotsuga menziesii</i> / <i>Juniperus communis</i>	4	2	1	1
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	3		0	2
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	1		0	2
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	6	2	1	2
Deciduous forest				
<i>Populus tremuloides</i> / <i>Calamagrostis rubescens</i>	1		0	2
<i>Populus tremuloides</i> / <i>Symphoricarpos oreophilus</i> / <i>Carex rossii</i>	0		0	5
<i>Populus tremuloides</i> /tall forb	1		0	2
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	1		0	2
<i>Populus trichocarpa</i> / <i>Salix lutea</i>	0		0	5
Evergreen woodland				
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	4	6	2	4
<i>Pinus albicaulis</i> (timberline)	2	6	2	4
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	5	7	5	4
<i>Pinus albicaulis</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Pinus albicaulis</i> / <i>Poa nervosa</i>	0	3	1	3
<i>Pinus contorta</i> / <i>Festuca idahoensis</i>	2		0	2
<i>Pinus flexilis</i> (timberline)	0	1	1	2
<i>Pinus flexilis</i> / <i>Cercocarpus ledifolius</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Challis Volcanics, Section M332F (Cont'd.)				
Evergreen woodland (cont'd.)				
<i>Pinus flexilis/Festuca idahoensis</i>	1		0	2
<i>Pinus flexilis/Purshia tridentata</i>	0		0	5
<i>Pseudotsuga menziesii/Agropyron spicatum</i>	4		0	1
<i>Pseudotsuga menziesii/Cercocarpus ledifolius</i>	1		0	2
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	3		0	2
Evergreen shrubland				
<i>Artemisia cana viscidula/Festuca idahoensis</i>	2		0	2
<i>Artemisia tridentata tridentata/Elymus cinereus</i>	1		0	2
<i>Artemisia tridentata tridentata/Stipa comata</i>	0		0	5
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Agropyron spicatum</i>	1		0	2
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Festuca idahoensis</i>	4		0	1
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	7		0	1
<i>Artemisia tridentata vaseyana/Leucopoa kingii</i>	1		0	2
<i>Artemisia tridentata vaseyana/Stipa comata</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Carex filifolia</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Elymus ambiguus salmonis</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Poa secunda</i>	0		0	5
<i>Artemisia tridentata wyomingensis/Sitanion hystrix</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Stipa comata</i>	0		0	5
<i>Atriplex confertifolia/Agropyron spicatum</i>	1		0	2
<i>Atriplex confertifolia/Elymus ambiguus salmonis</i>	1		0	2
<i>Atriplex confertifolia/Oryzopsis hymenoides</i>	1		0	2
<i>Atriplex confertifolia/Sitanion hystrix</i>	1		0	2
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	1	2	1	3
<i>Cercocarpus ledifolius/Artemisia tridentata vaseyana</i>	1		0	2
<i>Cercocarpus ledifolius/Artemisia tridentata/Festuca idahoensis</i>	1		0	2
<i>Cercocarpus ledifolius/Elymus ambiguus salmonis</i>	1		0	2
<i>Cercocarpus ledifolius/Festuca idahoensis</i>	1		0	2
<i>Cercocarpus ledifolius/Holodiscus dumosus</i>	1		0	2
<i>Cercocarpus ledifolius/Symphoricarpos albus/Festuca idahoensis</i>	1		0	2
<i>Cercocarpus ledifolius/Symphoricarpos oreophilus</i>	1	1	1	2
Deciduous shrubland				
<i>Alnus incana/Carex utriculata</i>	0		0	5
<i>Alnus incana/Cornus stolonifera</i>	4		0	1
<i>Alnus incana/mesic forb</i>	0		0	5
<i>Alnus incana/Ribes hudsonianum</i>	0		0	5
<i>Alnus sinuata</i>	0	1	1	2
<i>Betula glandulosa/Lonicera caerulea/Senecio pseudoaureus</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Challis Volcanics, Section M332F (Cont'd.)				
Deciduous shrubland (cont'd.)				
<i>Betula occidentalis</i>	0		0	5
<i>Betula occidentalis/Cornus stolonifera</i>	0		0	5
<i>Cornus stolonifera</i>	0		0	5
<i>Cornus stolonifera/Galium trifolium</i>	0		0	5
<i>Glossopetalon nevadense/Agropyron spicatum</i>	1		0	2
<i>Potentilla fruticosa/Deschampsia cespitosa</i>	0		0	5
<i>Salix boothii/Calamagrostis canadensis</i>	0		0	5
<i>Salix boothii/Carex aquatilis</i>	0		0	5
<i>Salix boothii/Carex utriculata</i>	0		0	5
<i>Salix boothii/mesic graminoid</i>	0		0	5
<i>Salix boothii/Smilacina stellata</i>	0		0	5
<i>Salix commutata/Carex scopulorum</i>	0		0	5
<i>Salix drummondiana/Calamagrostis canadensis</i>	3		0	2
<i>Salix drummondiana/Carex utriculata</i>	1		0	2
<i>Salix eastwoodiae/Carex aquatilis</i>	0		0	5
<i>Salix eastwoodiae/Carex utriculata</i>	0		0	5
<i>Salix exigua/barren</i>	3		0	2
<i>Salix exigua/mesic graminoid</i>	0		0	5
<i>Salix geyeriana/Calamagrostis canadensis</i>	1		0	2
<i>Salix geyeriana/Carex aquatilis</i>	1		0	2
<i>Salix geyeriana/Carex utriculata</i>	1		0	2
<i>Salix geyeriana/mesic forb</i>	0		0	5
<i>Salix planifolia monica/Carex aquatilis-Carex utriculata</i>	0		0	5
<i>Salix planifolia monica/Carex scopulorum</i>	0		0	5
<i>Salix wolfii/Carex aquatilis</i>	0		0	5
<i>Salix wolfii/Carex microptera</i>	1		0	2
<i>Salix wolfii/Carex utriculata</i>	0		0	5
<i>Salix wolfii/Swertia perennis-Pedicularis groenlandica</i>	4		0	1
Evergreen dwarf-shrubland				
<i>Artemisia nova/Agropyron spicatum</i>	0	3	1	3
<i>Artemisia nova/Oryzopsis hymenoides</i>	1		0	2
<i>Artemisia nova/Poa secunda</i>	1		0	2
<i>Cassiope mertensiana/Carex paysonis</i>	1		0	2
<i>Kalmia microphylla/Carex scopulorum</i>	0		0	5
<i>Phyllodoce empetriformis-Ledum glandulosum</i>	0		0	5
<i>Phyllodoce empetriformis/Antennaria lanata</i>	1		0	2
Deciduous dwarf-shrubland				
<i>Haplopappus suffruticosus/Festuca idahoensis</i>	4		0	1
<i>Haplopappus suffruticosus/Sitanion hystrix</i>	4		0	1
<i>Salix nivalis</i>	1		0	2
Perennial graminoid vegetation				
<i>Agropyron scribneri</i>	2	3	1	3

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Challis Volcanics, Section M332F (Cont'd.)				
Perennial graminoid vegetation (cont'd.)				
<i>Agrostis exarata</i> - <i>Agrostis scabra</i>	4		0	1
<i>Agropyron spicatum</i> - <i>Melica bulbosa</i>	1		0	2
<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	1		0	2
<i>Agropyron spicatum</i> / <i>Eriogonum heracleoides</i>	1		0	2
<i>Artemisia arbuscula arbuscula</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Artemisia arbuscula arbuscula</i> / <i>Festuca idahoensis</i>	4		0	1
<i>Artemisia arbuscula thermopola</i> / <i>Festuca idahoensis</i>	0		0	5
<i>Artemisia nova</i> / <i>Elymus ambiguus salmonis</i>	1		0	2
<i>Artemisia nova</i> / <i>Festuca idahoensis</i>	0	2	1	3
<i>Artemisia tridentata tridentata</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Artemisia tridentata vaseyana</i> / <i>Festuca idahoensis</i>	4	7	3	4
<i>Artemisia tridentata wyomingensis</i> / <i>Agropyron spicatum</i>	6		0	1
<i>Artemisia tripartita</i> / <i>Agropyron spicatum</i>	4		0	1
<i>Artemisia tripartita</i> / <i>Festuca idahoensis</i>	4		0	1
<i>Calamagrostis canadensis</i>	0		0	5
<i>Calamagrostis purpurescens</i>	1		0	2
<i>Carex albonigra</i>	0	4	1	3
<i>Carex aquatilis</i>	0		0	5
<i>Carex buxbaumii</i>	0		0	5
<i>Carex elynoides</i> / <i>Lupinus argenteus</i>	2		0	2
<i>Carex elynoides</i> / <i>Oxytropis sericea</i>	1	4	1	3
<i>Carex lanuginosa</i>	0		0	5
<i>Carex microptera</i>	1		0	2
<i>Carex nebraskensis</i>	0		0	5
<i>Carex nigricans</i>	0		0	5
<i>Carex nigricans</i> - <i>Agrostis humilis</i>	0		0	5
<i>Carex rupestris</i>	1	4	1	3
<i>Carex scirpoidea</i> / <i>Geum rossii</i>	0		0	5
<i>Carex scirpoidea</i> / <i>Potentilla diversifolia</i>	0		0	5
<i>Carex scopulorum</i>	0		0	5
<i>Carex simulata</i>	0		0	5
<i>Carex stenophylla</i> - <i>Poa secunda</i>	0		0	5
<i>Carex utriculata</i>	3		0	2
<i>Deschampsia cespitosa</i>	0	3	1	3
<i>Deschampsia cespitosa</i> / <i>Caltha leptosepala</i>	0		0	5
<i>Deschampsia cespitosa</i> / <i>Caltha leptosepala</i>	1		0	2
<i>Dryas octopetala</i>	1		0	2
<i>Dryas octopetala</i> / <i>Carex rupestris</i>	1		0	2
<i>Eleocharis palustris</i> (wetland/riparian)	0		0	5
<i>Eleocharis pauciflora</i>	1		0	2
<i>Eleocharis rostellata</i> herbaceous vegetation	0		0	5
<i>Elymus cinereus</i>	0		0	5
<i>Festuca idahoensis</i> (alpine)	0	3	1	3
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	1		0	2
<i>Festuca idahoensis</i> - <i>Deschampsia cespitosa</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Challis Volcanics, Section M332F (Cont'd.)				
Perennial graminoid vegetation (cont'd.)				
<i>Festuca idahoensis-Koeleria cristata</i>	1		0	2
<i>Festuca idahoensis-Leucopoa kingii</i>	0		0	5
<i>Festuca idahoensis/Eriogonum caespitosum</i>	2		0	2
<i>Festuca idahoensis/Potentilla diversifolia</i>	4		0	1
<i>Juncus balticus</i>	1		0	2
<i>Juncus drummondii-Carex</i> spp.	0		0	5
<i>Leucopoa kingii-Carex elynoides</i>	1		0	2
<i>Leucopoa kingii-Poa cusickii</i>	2		0	2
<i>Leucopoa kingii/Achillea millefolium</i>	4		0	1
<i>Leucopoa kingii/Oxytropis campestris</i>	0		0	5
<i>Leucopoa kingii/Phlox pulvinata</i>	5		0	1
<i>Poa epilis</i>	1	3	1	3
<i>Potentilla fruticosa/Danthonia intermedia</i>	3		0	2
<i>Potentilla fruticosa/Festuca idahoensis</i>	0		0	5
<i>Scirpus americanus</i>	0		0	5
<i>Scirpus cespitosus-Carex livida</i>	0		0	5
<i>Scirpus validus</i>	0		0	5
Perennial forb vegetation				
<i>Geum rossii</i>	1		0	2
<i>Geum rossii/Arenaria obtusiloba</i>	1		0	2
<i>Ivesia gordonii-Arenaria obtusiloba</i>	3	5	1	3
<i>Ivesia gordonii-Eriogonum caespitosum</i>	1	5	1	3
<i>Phlox pulvinata/Poa epilis</i>	3	5	1	3
<i>Potentilla diversifolia-Arenaria obtusiloba</i>	0	5	1	3
<i>Saxifraga oppositifolia</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Blue Mountains, Section M332G				
Evergreen forest				
<i>Abies grandis/Acer glabrum</i>	3	4	2	4
<i>Abies grandis/Asarum caudatum</i>	1		0	2
<i>Abies grandis/Clintonia uniflora</i>	5	5	2	3
<i>Abies grandis/Coptis occidentalis</i>	1		0	2
<i>Abies grandis/Linnaea borealis</i>	4		0	1
<i>Abies grandis/Physocarpus malvaceus</i>	1		0	2
<i>Abies grandis/Senecia triangularis</i>	3		0	2
<i>Abies grandis/Spiraea betulifolia</i>	5	4	3	4
<i>Abies grandis/Taxus brevifolia/Asarum caudatum</i>	0		0	5
<i>Abies grandis/Taxus brevifolia/Clintonia uniflora</i>	2		0	2
<i>Abies grandis/Vaccinium caespitosum</i>	2		0	2
<i>Abies grandis/Vaccinium globulare</i>	4	6	3	4
<i>Abies grandis/Xerophyllum tenax</i>	1		0	2
<i>Abies lasiocarpa/Acer glabrum</i>	0	4	1	3
<i>Abies lasiocarpa/Alnus sinuata</i>	0		0	5
<i>Abies lasiocarpa/Arnica cordifolia</i>	1		0	2
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	1		0	2
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	2		0	2
<i>Abies lasiocarpa/Caltha biflora</i>	0		0	5
<i>Abies lasiocarpa/Clintonia uniflora</i>	3	3	1	3
<i>Abies lasiocarpa/Ledum glandulosum</i>	0		0	5
<i>Abies lasiocarpa/Linnaea borealis</i>	3		0	2
<i>Abies lasiocarpa/Luzula hitchcockii</i>	1	4	2	4
<i>Abies lasiocarpa/Menziesia ferruginea</i>	0	5	1	3
<i>Abies lasiocarpa/Polemonium pulcherrimum</i>	1		0	2
<i>Abies lasiocarpa/Ribes montigenum</i>	1		0	2
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	3		0	2
<i>Abies lasiocarpa/Vaccinium caespitosum</i>	1		0	2
<i>Abies lasiocarpa/Vaccinium globulare</i>	4	4	2	4
<i>Abies lasiocarpa/Vaccinium scoparium</i>	5	6	2	3
<i>Abies lasiocarpa/Xerophyllum tenax</i>	1	1	1	2
<i>Picea engelmannii/Carex disperma</i>	1		0	2
<i>Picea engelmannii/Equisetum arvense</i>	1		0	2
<i>Picea engelmannii/Galium trifolium</i>	2		0	2
<i>Pinus ponderosa/Calamagrostis rubescens</i>	1		0	2
<i>Pinus ponderosa/Physocarpus malvaceus</i>	0	2	1	3
<i>Pinus ponderosa/Symphoricarpos albus</i>	5	4	2	3
<i>Pinus ponderosa/Symphoricarpos oreophilus</i>	2		0	2
<i>Pseudotsuga menziesii/Acer glabrum</i>	0	4	1	3
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	6	5	5	4
<i>Pseudotsuga menziesii/Carex geyeri</i>	4		0	1
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	1		0	2
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	5	7	8	4
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	6	3	1	2
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	6	5	4	4
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	1	4	2	4
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	2		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Blue Mountains, Section M332G (Cont'd.)				
Deciduous forest				
<i>Alnus rhombifolia/Amelanchier alnifolia</i>	1		0	2
<i>Alnus rhombifolia/Betula occidentalis</i>	1		0	2
<i>Alnus rhombifolia/Celtis reticulata</i>	1		0	2
<i>Alnus rhombifolia/Philadelphus lewisii</i>	1		0	2
<i>Alnus rhombifolia/Rhus glabra</i>	1		0	2
<i>Alnus rhombifolia/Rosa woodsii</i>	1		0	2
<i>Alnus rhombifolia/Sambucus cerulea</i>	1		0	2
<i>Alnus rubra/Adiantum pedatum</i>	1		0	2
<i>Crataegus douglasii/Symphoricarpos albus,</i> <i>Populus tremuloides phase</i>	1		0	2
<i>Populus tremuloides/Calamagrostis canadensis</i>	1		0	2
<i>Populus tremuloides/Cornus stolonifera</i>	1		0	2
<i>Populus trichocarpa/Alnus incana</i>	1		0	2
<i>Populus trichocarpa/Cicuta douglasii</i>	1		0	2
<i>Populus trichocarpa/Crataegus douglasii</i>	1		0	2
<i>Populus trichocarpa/Festuca idahoensis</i>	1		0	2
<i>Populus trichocarpa/Rhamnus alnifolia</i>	1		0	2
<i>Populus trichocarpa/Symphoricarpos albus</i>	1		0	2
Evergreen woodland				
<i>Abies grandis/Calamagrostis rubescens</i>	5		0	1
<i>Juniperus occidentalis/Artemisia tridentata vaseyana</i>	1		0	2
<i>Picea engelmannii/Cornus stolonifera</i>	1		0	2
<i>Pinus albicaulis-Abies lasiocarpa</i>	0	5	2	4
<i>Pinus ponderosa/Agropyron spicatum</i>	1	4	1	3
<i>Pinus ponderosa/Festuca idahoensis</i>	6	4	1	2
<i>Pinus ponderosa/Purshia tridentata</i>	4		0	1
<i>Pseudotsuga menziesii/Agropyron spicatum</i>	4		0	1
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	3		0	2
Deciduous woodland				
<i>Celtis reticulata/Agropyron spicatum</i>	1		0	2
Evergreen shrubland				
<i>Artemisia cana viscidula/Deschampsia cespitosa</i>	2		0	2
<i>Artemisia tridentata tridentata/Stipa comata</i>	1		0	2
<i>Artemisia tridentata vaseyana-</i> <i>Symphoricarpos oreophilus/Bromus carinatus</i>	2		0	2
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	0	3	2	4
<i>Artemisia tridentata vaseyana/Elymus cinereus</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Festuca idahoensis</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Poa secunda</i>	1		0	2
<i>Artemisia tridentata wyomingensis/Sitanion hystrix</i>	1		0	2
<i>Artemisia tridentata xericensis/Agropyron spicatum</i>	1		0	2
<i>Artemisia tridentata xericensis/Festuca idahoensis</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Blue Mountains, Section M332G (Cont'd.)				
Evergreen shrubland (cont'd.)				
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	0	4	3	4
<i>Cercocarpus ledifolius/Artemisia tridentata vaseyana</i>	1		0	2
<i>Cercocarpus ledifolius/Artemisia tridentata/Festuca idahoensis</i>	1		0	2
<i>Cercocarpus ledifolius/Calamagrostis rubescens</i>	1		0	2
<i>Cercocarpus ledifolius/Elymus cinereus</i>	1		0	2
<i>Cercocarpus ledifolius/Festuca idahoensis</i>	0	3	1	3
<i>Cercocarpus ledifolius/Symphoricarpos albus/Festuca idahoensis</i>	5		0	1
<i>Cercocarpus ledifolius/Symphoricarpos oreophilus</i>	1		0	2
Deciduous shrubland				
<i>Alnus incana-Betula occidentalis/Salix exigua</i>	1		0	2
<i>Alnus incana/Athyrium filix-femina</i>	1		0	2
<i>Alnus incana/Carex utriculata</i>	1		0	2
<i>Alnus incana/Cornus stolonifera</i>	1		0	2
<i>Alnus incana/Equisetum arvense</i>	1		0	2
<i>Alnus incana/mesic forb</i>	1		0	2
<i>Alnus sinuata</i>	0	4	1	3
<i>Alnus sinuata/Athyrium filix-femina</i>	3		0	2
<i>Alnus sinuata/mesic forb</i>	1		0	2
<i>Alnus sinuata/Montia cordifolia</i>	0		0	5
<i>Betula occidentalis/Celtis reticulata</i>	0		0	5
<i>Betula occidentalis/Crataegus douglasii</i>	1		0	2
<i>Cornus stolonifera</i>	3		0	2
<i>Crataegus douglasii/Montia perfoliata</i>	1		0	2
<i>Crataegus douglasii/Symphoricarpos albus</i>	2	1	1	2
<i>Glossopetalon nevadense/Agropyron spicatum</i>	2	2	3	4
<i>Potentilla fruticosa/Deschampsia cespitosa</i>	1		0	2
<i>Physocarpus malvaceus-Symphoricarpos albus</i>	2	4	2	4
<i>Salix boothii/Carex aquatilis</i>	2		0	2
<i>Salix boothii/mesic forb</i>	1		0	2
<i>Salix exigua/barren</i>	5		0	1
<i>Salix geyeriana/Carex utriculata</i>	3		0	2
<i>Sarcobatus vermiculatus/Distichlis stricta stricta</i>	1		0	2
<i>Sarcobatus vermiculatus/Elymus cinereus</i>	1		0	2
<i>Symphoricarpos albus-Rosa spp.</i>	2	5	3	4
Evergreen dwarf-shrubland				
<i>Eriogonum spp.-Physaria oregana</i>	0	1	1	2
<i>Eriogonum sphaerocephalum/Poa secunda</i>	1		0	2
<i>Eriogonum thymoides/Poa secunda</i>	1		0	2
<i>Kalmia microphylla/Carex scopulorum</i>	0		0	5
<i>Phyllodoce empetriformis-Ledum glandulosum</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Blue Mountains, Section M332G (Cont'd.)				
Perennial graminoid vegetation				
<i>Agropyron spicatum</i> - <i>Melica bulbosa</i>	1		0	2
<i>Agropyron spicatum</i> - <i>Poa secunda</i>	5	6	3	4
<i>Agropyron spicatum</i> - <i>Poa secunda</i> , scabland	1	1	1	2
<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	4	6	4	4
<i>Agropyron spicatum</i> / <i>Eriogonum heracleoides</i>	1	1	1	3
<i>Agropyron spicatum</i> / <i>Opuntia polyacantha</i>	3	6	1	3
<i>Aristida longiseta</i> / <i>Poa secunda</i>	1		0	2
<i>Artemisia arbuscula arbuscula</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Artemisia arbuscula arbuscula</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Artemisia arbuscula arbuscula</i> / <i>Poa secunda</i>	1		0	2
<i>Artemisia rigida</i> / <i>Poa secunda</i>	4	4	3	4
<i>Artemisia tridentata vaseyana</i> / <i>Carex geyeri</i>	4	1	1	1
<i>Artemisia tridentata vaseyana</i> / <i>Festuca idahoensis</i>	2	5	4	4
<i>Artemisia tridentata wyomingensis</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Artemisia tripartita</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Artemisia tripartita</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Artemisia tripartita</i> / <i>Stipa comata</i>	1		0	2
<i>Calamagrostis canadensis</i>	2		0	2
<i>Carex aquatilis</i>	4		0	1
<i>Carex cusickii</i>	3		0	2
<i>Carex lanuginosa</i>	2		0	2
<i>Carex lasiocarpa</i>	1		0	2
<i>Carex nebraskensis</i>	3		0	2
<i>Carex nigricans</i>	0		0	5
<i>Carex scopulorum</i>	2		0	2
<i>Carex simulata</i>	1		0	2
<i>Carex utriculata</i>	5		0	1
<i>Carex vesicaria</i>	3		0	2
<i>Deschampsia cespitosa</i>	1		0	2
<i>Distichlis stricta stricta</i> - <i>Scirpus nevadensis</i>	1		0	2
<i>Eleocharis palustris</i> (wetland/riparian)	2		0	2
<i>Eleocharis pauciflora</i>	1		0	2
<i>Elymus cinereus</i>	1		0	2
<i>Eriogonum douglasii</i> / <i>Poa secunda</i>	1		0	2
<i>Eriogonum strictum</i> / <i>Poa secunda</i>	1		0	2
<i>Festuca idahoensis</i> (alpine)	1		0	2
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	3	7	6	4
<i>Festuca idahoensis</i> - <i>Carex geyeri</i>	1		0	2
<i>Festuca idahoensis</i> - <i>Carex hoodii</i>	1		0	2
<i>Festuca idahoensis</i> - <i>Danthonia intermedia</i> - <i>Carex</i> spp.	2		0	2
<i>Festuca idahoensis</i> - <i>Koeleria cristata</i>	5	7	5	4
<i>Juncus balticus</i>	3		0	2
<i>Juncus drummondii</i> - <i>Carex</i> spp.	0		0	5
<i>Juniperus occidentalis</i> / <i>Agropyron spicatum</i>	1		0	2
<i>Juniperus occidentalis</i> / <i>Artemisia arbuscula</i> / <i>Festuca idahoensis</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Blue Mountains, Section M332G (Cont'd.)				
Perennial graminoid vegetation (cont'd.)				
<i>Juniperus occidentalis/Festuca idahoensis</i>	1		0	2
<i>Phragmites communis/Rhus radicans</i>	0		0	5
<i>Purshia tridentata/Agropyron spicatum</i>	2	3	1	3
<i>Purshia tridentata/Festuca idahoensis</i>	6	1	1	1
<i>Rhus glabra/Agropyron spicatum</i>	0	1	1	2
<i>Sporobolus cryptandra</i>	1		0	2
<i>Sporobolus cryptandra-Poa secunda</i>	1		0	2
Perennial forb vegetation				
<i>Artemisia ludoviciana</i>	1		0	2
<i>Camassia cusickii</i>	1		0	2
<i>Camassia quamash</i>	1		0	2
<i>Chrysopsis villosa</i>	1		0	2
<i>Chrysopsis villosa/Sporobolus cryptandrus</i>	1		0	2

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Okanogan Highlands, Section M333A				
Evergreen forest				
<i>Abies grandis</i> / <i>Asarum caudatum</i>	3	3	1	3
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	6	4	2	3
<i>Abies grandis</i> / <i>Linnaea borealis</i>	1		0	2
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	4		0	1
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Asarum caudatum</i>	1		0	2
<i>Abies grandis</i> / <i>Xerophyllum tenax</i>	5		0	1
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i>	0	5	1	3
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	5	6	2	3
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	0		0	5
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	1	4	1	3
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	3	7	2	4
<i>Abies lasiocarpa</i> / <i>Oplopanax horridum</i>	0		0	5
<i>Abies lasiocarpa</i> / <i>Rhododendron albiflorum</i>	0	7	3	4
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	5	6	2	3
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	1		0	2
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	2	7	5	4
<i>Picea engelmannii</i> / <i>Equisetum arvense</i>	0		0	5
<i>Pinus ponderosa</i> / <i>Physocarpus malvaceus</i>	5		0	1
<i>Pinus ponderosa</i> / <i>Symphoricarpos albus</i>	6		0	1
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	6		0	1
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	8	5	3	2
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	4		0	1
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	6		0	1
<i>Pseudotsuga menziesii</i> / <i>Vaccinium caespitosum</i>	5		0	1
<i>Pseudotsuga menziesii</i> / <i>Vaccinium globulare</i>	0	1	1	2
<i>Thuja plicata</i> / <i>Asarum caudatum</i>	3	1	1	2
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	1	7	6	4
<i>Thuja plicata</i> / <i>Clintonia uniflora</i>	5	1	1	1
<i>Thuja plicata</i> / <i>Lysichitum americanum</i>	0	3	1	3
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	6	6	6	4
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i>	6	6	4	4
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	7	8	9	4
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	1	4	2	4
<i>Tsuga heterophylla</i> / <i>Menziesia ferruginea</i>	1	2	1	3
<i>Tsuga mertensiana</i> / <i>Clintonia uniflora</i>	3		0	2
<i>Tsuga mertensiana</i> / <i>Luzula hitchcockii</i>	1		0	2
Deciduous forest				
<i>Populus trichocarpa</i> / <i>Alnus incana</i>	3	1	1	3
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	3		0	2
<i>Populus trichocarpa</i> / <i>Recent Alluvial Bar</i>	3		0	2
<i>Populus trichocarpa</i> / <i>Symphoricarpos albus</i>	3		0	2
Evergreen woodland				
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	0	2	2	3

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Okanogan Highlands, Section M333A (Cont'd.)				
Evergreen woodland (cont'd.)				
<i>Pinus ponderosa/Festuca idahoensis</i>	4		0	1
<i>Pinus ponderosa/Festuca scabrella</i>	1		0	2
Deciduous shrubland				
<i>Alnus incana/Athyrium filix-femina</i>	0	4	1	3
<i>Alnus incana/Carex utriculata</i>	0	2	2	4
<i>Alnus incana/Equisetum arvense</i>	0		0	5
<i>Alnus incana/Lysichitum americanum</i>	0	2	1	3
<i>Alnus incana/mesic forb</i>	0	1	1	3
<i>Alnus incana/Spiraea douglasii</i>	0	2	1	3
<i>Alnus sinuata</i>	0		0	5
<i>Alnus sinuata/Athyrium filix-femina</i>	0		0	5
<i>Alnus sinuata/mesic forb</i>	0		0	5
<i>Alnus sinuata/Montia cordifolia</i>	0		0	5
<i>Betula glandulosa/Carex lasiocarpa</i>	0		0	5
<i>Betula glandulosa/Carex utriculata</i>	0	4	1	3
<i>Betula papyrifera/Aralia nudicaulis</i>	0		0	5
<i>Cornus stolonifera</i>	0	2	1	3
<i>Cornus stolonifera/Galium trifolium</i>	0		0	5
<i>Cornus stolonifera/Heracleum lanatum</i>	0		0	5
<i>Rhamnus alnifolia</i>	0		0	5
<i>Salix bebbiana</i>	0	1	1	3
<i>Salix bebbiana/mesic graminoid</i>	0		0	5
<i>Salix drummondiana/Carex utriculata</i>	0		0	5
<i>Salix exigua/barren</i>	0		0	5
<i>Salix exigua/mesic graminoid</i>	0		0	5
<i>Spiraea douglasii</i>	0	1	1	3
Evergreen dwarf-shrubland				
<i>Cassiope mertensiana-Phyllodoce empetriformis</i>	0		0	5
<i>Cassiope mertensiana/Luetkea pectinata</i>	0		0	5
Perennial graminoid vegetation				
<i>Calamagrostis canadensis</i>	0		0	5
<i>Carex aquatilis</i>	0		0	5
<i>Carex buxbaumii</i>	0		0	5
<i>Carex cusickii</i>	0	1	1	2
<i>Carex lanuginosa</i>	0		0	5
<i>Carex lasiocarpa</i>	0	3	3	4
<i>Carex limosa</i>	0		0	5
<i>Carex livida</i>	0		0	5
<i>Carex nigricans</i>	0		0	5
<i>Carex scopulorum</i>	0	2	1	3
<i>Carex utriculata</i>	0	1	1	3
<i>Carex vesicaria</i>	0	1	1	3

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Okanogan Highlands, Section M333A (Cont'd.)				
Perennial graminoid vegetation (cont'd.)				
<i>Deschampsia cespitosa</i>	0		0	5
<i>Deschampsia cespitosa/Caltha leptosepala</i>	0		0	5
<i>Dulichium arundinaceum</i>	0		0	5
<i>Eleocharis palustris</i> (wetland/riparian)	0		0	5
<i>Eriophorum polystachion</i>	0	2	1	3
<i>Festuca scabrella-Festuca idahoensis</i>	1		0	2
<i>Festuca viridula</i>	0	5	3	4
<i>Glyceria borealis</i>	0		0	5
<i>Juncus balticus</i>	0		0	5
<i>Phalaris arundinacea</i>	0		0	5
<i>Scirpus acutus</i>	0		0	5
Perennial forb vegetation				
<i>Equisetum fluviatile</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Flathead Valley, Section M333B				
Evergreen forest				
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	0	5	2	4
<i>Abies grandis</i> / <i>Linnaea borealis</i>	0	5	1	3
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	1		0	2
<i>Abies grandis</i> / <i>Senecia triangularis</i>	0		0	5
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i>	0	5	2	4
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	5	7	5	4
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	0		0	5
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	0	5	2	4
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	5	7	4	4
<i>Abies lasiocarpa</i> / <i>Oplopanax horridum</i>	0		0	5
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	6	1	1	2
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	3		0	2
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	6	7	4	4
<i>Picea glauca</i> / <i>Equisetum arvense</i>	0		0	5
<i>Pinus ponderosa</i> / <i>Symphoricarpos albus</i>	0		0	5
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	0	7	5	4
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	6	7	4	4
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	6	2	1	2
<i>Pseudotsuga menziesii</i> / <i>Vaccinium caespitosum</i>	4	6	2	4
<i>Thuja plicata</i> / <i>Asarum caudatum</i>	3		0	2
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	4	1	1	2
<i>Thuja plicata</i> / <i>Clintonia uniflora</i>	4	6	4	4
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	6	3	3	2
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i>	5		0	1
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	8	7	4	4
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	7	1	1	1
<i>Tsuga heterophylla</i> / <i>Menziesia ferruginea</i>	5		0	1
<i>Tsuga mertensiana</i> / <i>Luzula hitchcockii</i>	1		0	2
Deciduous forest				
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	0	3	1	3
<i>Populus trichocarpa</i> / <i>Symphoricarpos albus</i>	0		0	5
Mixed evergreen-deciduous forest				
<i>Larix lyallii</i> - <i>Abies lasiocarpa</i>	3		0	2
Evergreen woodland				
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	1		0	2
Deciduous shrubland				
<i>Alnus incana</i> / <i>Athyrium filix-femina</i>	0		0	5
<i>Alnus incana</i> / <i>Carex utriculata</i>	0		0	5
<i>Alnus incana</i> / <i>Equisetum arvense</i>	0		0	5
<i>Alnus incana</i> / <i>Lysichitum americanum</i>	0		0	5
<i>Alnus incana</i> / <i>Spiraea douglasii</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Flathead Valley, Section M333B (Cont'd.)				
Deciduous shrubland (cont'd.)				
<i>Alnus sinuata</i> /Athyrium filix-femina	0		0	5
<i>Alnus sinuata</i> /mesic forb	0		0	5
<i>Alnus sinuata</i> /Montia cordifolia	0		0	5
<i>Betula glandulosa</i> /Carex utriculata	0	1	1	3
<i>Cornus stolonifera</i>	0		0	5
<i>Potentilla fruticosa</i> /Deschampsia cespitosa	0		0	5
<i>Salix candida</i> /Carex utriculata	0		0	5
<i>Salix drummondiana</i>	0		0	5
<i>Salix geyeriana</i> /Calamagrostis canadensis	0		0	5
<i>Salix geyeriana</i> /Carex aquatilis	0		0	5
<i>Salix planifolia monica</i> /Carex scopulorum	0		0	5
<i>Salix wolfii</i> /Deschampsia cespitosa	0		0	5
<i>Spiraea douglasii</i>	0		0	5
Evergreen dwarf-shrubland				
<i>Cassiope mertensiana</i> -Phyllodoce empetrifomis	0		0	5
<i>Cassiope mertensiana</i> /Luetkea pectinata	0		0	5
<i>Kalmia microphylla</i> /Carex scopulorum	0		0	5
<i>Phyllodoce empetrifomis</i> /Antennaria lanata	0		0	5
Perennial graminoid vegetation				
<i>Agropyron spicatum</i> -Poa secunda	7		0	1
<i>Calamagrostis canadensis</i>	0	1	1	3
<i>Carex aperta</i>	0		0	5
<i>Carex aquatilis</i>	0		0	5
<i>Carex buxbaumii</i>	0		0	5
<i>Carex cusickii</i>	0		0	5
<i>Carex lasiocarpa</i>	0	3	3	4
<i>Carex limosa</i>	0		0	5
<i>Carex nebraskensis</i>	0		0	5
<i>Carex nigricans</i>	0		0	5
<i>Carex scopulorum</i>	0		0	5
<i>Carex simulata</i>	0		0	5
<i>Carex utriculata</i>	0	2	2	4
<i>Deschampsia cespitosa</i>	0		0	5
<i>Dulichium arundinaceum</i>	0		0	5
<i>Eleocharis palustris</i> (wetland/riparian)	0		0	5
<i>Eleocharis pauciflora</i>	0		0	5
<i>Festuca viridula</i>	0		0	5
<i>Glyceria borealis</i>	0		0	5
<i>Juncus balticus</i>	0		0	5
<i>Scirpus acutus</i>	0	1	1	3
<i>Scirpus validus</i>	0		0	5
Perennial forb vegetation				
<i>Equisetum fluviatile</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Bitterroot Mountains, Section M333D				
Evergreen forest				
<i>Abies grandis</i> / <i>Asarum caudatum</i>	5	5	2	3
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	5	7	6	4
<i>Abies grandis</i> / <i>Linnaea borealis</i>	3		0	2
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	7	5	3	3
<i>Abies grandis</i> / <i>Senecia triangularis</i>	0		0	5
<i>Abies grandis</i> / <i>Spiraea betulifolia</i>	4	4	1	3
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Asarum caudatum</i>	1		0	2
<i>Abies grandis</i> / <i>Xerophyllum tenax</i>	4	1	1	1
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i>	3		0	2
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	4	2	1	2
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	3		0	2
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	0	1	1	2
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	4	6	3	4
<i>Abies lasiocarpa</i> / <i>Oplopanax horridum</i>	1		0	2
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	2		0	2
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i>	1		0	2
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	1		0	2
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	5	5	3	4
<i>Pinus contorta</i> / <i>Vaccinium caespitosum</i>	0		0	5
<i>Pinus contorta</i> / <i>Vaccinium scoparium</i>	1		0	2
<i>Pinus contorta</i> / <i>Xerophyllum tenax</i>	1		0	2
<i>Pinus ponderosa</i> / <i>Physocarpus malvaceus</i>	3		0	2
<i>Pinus ponderosa</i> / <i>Symphoricarpos albus</i>	3	1	1	2
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	1		0	2
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	7	6	4	4
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	1		0	2
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	4		0	1
<i>Pseudotsuga menziesii</i> / <i>Vaccinium caespitosum</i>	0		0	5
<i>Pseudotsuga menziesii</i> / <i>Vaccinium globulare</i>	1		0	2
<i>Thuja plicata</i> / <i>Dryopteris</i> spp.	0	3	1	3
<i>Thuja plicata</i> / <i>Adiantum pedatum</i>	5	7	2	3
<i>Thuja plicata</i> / <i>Asarum caudatum</i>	6	6	4	4
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	5	5	7	4
<i>Thuja plicata</i> / <i>Clintonia uniflora</i>	6	7	4	4
<i>Thuja plicata</i> / <i>Gymnocarpium dryopteris</i>	3	4	4	4
<i>Thuja plicata</i> / <i>Lysichitum americanum</i>	0	1	1	2
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	3	4	3	4
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i>	6	5	3	4
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	6	5	3	4
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	4	4	2	4
<i>Tsuga mertensiana</i> / <i>Clintonia uniflora</i>	5		0	1
<i>Tsuga mertensiana</i> / <i>Luzula hitchcockii</i>	0	1	3	4
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i>	6	7	8	4
<i>Tsuga mertensiana</i> / <i>Phyllodoce empetrifomis</i>	1	1	1	2
<i>Tsuga mertensiana</i> / <i>Streptopus amplexifolius</i>	4	1	1	1
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i>	7	7	5	4

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Bitterroot Mountains, Section M333D (Cont'd.)				
Deciduous forest				
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	0	3	1	3
<i>Populus trichocarpa</i> / <i>Rhamnus alnifolia</i>	0		0	5
<i>Populus trichocarpa</i> / <i>Symphoricarpos albus</i>	0		0	5
Mixed evergreen-deciduous forest				
<i>Larix lyallii</i> - <i>Abies lasiocarpa</i>	1		0	2
Evergreen woodland				
<i>Abies lasiocarpa</i> - <i>Pinus albicaulis</i> / <i>Vaccinium scoparium</i>	1		0	2
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	0	4	1	3
<i>Pinus ponderosa</i> / <i>Festuca idahoensis</i>	1		0	2
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	1		0	2
Deciduous shrubland				
<i>Alnus incana</i> / <i>Athyrium filix-femina</i>	0		0	5
<i>Alnus incana</i> / <i>Carex utriculata</i>	0		0	5
<i>Alnus incana</i> / <i>Equisetum arvense</i>	0		0	5
<i>Alnus incana</i> / <i>Lysichitum americanum</i>	0		0	5
<i>Alnus incana</i> / <i>Spiraea douglasii</i>	0		0	5
<i>Alnus sinuata</i>	0	2	1	3
<i>Alnus sinuata</i> / <i>Athyrium filix-femina</i>	0		0	5
<i>Alnus sinuata</i> /mesic forb	0		0	5
<i>Alnus sinuata</i> / <i>Montia cordifolia</i>	0		0	5
<i>Betula glandulosa</i> / <i>Carex simulata</i>	0		0	5
<i>Betula glandulosa</i> / <i>Carex utriculata</i>	0		0	5
<i>Betula occidentalis</i>	0		0	5
<i>Cornus stolonifera</i>	0		0	5
<i>Potentilla fruticosa</i> / <i>Deschampsia cespitosa</i>	0		0	5
<i>Salix candida</i> / <i>Carex utriculata</i>	0		0	5
<i>Salix drummondiana</i>	0		0	5
<i>Salix geyeriana</i> / <i>Calamagrostis canadensis</i>	0		0	5
<i>Salix geyeriana</i> / <i>Carex aquatilis</i>	0		0	5
<i>Salix geyeriana</i> / <i>Carex utriculata</i>	0		0	5
<i>Salix planifolia monica</i> / <i>Carex scopulorum</i>	0		0	5
<i>Salix wolfii</i> / <i>Carex aquatilis</i>	0		0	5
<i>Spiraea douglasii</i>	0		0	5
Evergreen dwarf-shrubland				
<i>Cassiope mertensiana</i> - <i>Phyllodoce empetrifomis</i>	0		0	5
<i>Cassiope mertensiana</i> / <i>Luetkea pectinata</i>	0		0	5
<i>Kalmia microphylla</i> / <i>Carex scopulorum</i>	0		0	5
<i>Phyllodoce empetrifomis</i> - <i>Ledum glandulosum</i>	0		0	5
<i>Phyllodoce empetrifomis</i> / <i>Antennaria lanata</i>	0		0	5
<i>Phyllodoce empetrifomis</i> / <i>Carex scopulorum</i>	0		0	5

Cont'd.

Table 2. Cont'd.

	Estimated natural relative abundance	Relative abundance of reference occurrences	Count of reference occurrences	Priority
Bitterroot Mountains, Section M333D (Cont'd.)				
Perennial graminoid vegetation				
<i>Agropyron spicatum-Poa secunda</i>	0		0	5
<i>Calamagrostis canadensis</i>	0		0	5
<i>Carex aquatilis</i>	0		0	5
<i>Carex buxbaumii</i>	0		0	5
<i>Carex lasiocarpa</i>	0		0	5
<i>Carex nebraskensis</i>	0		0	5
<i>Carex nigricans</i>	0	1	1	3
<i>Carex nigricans-Agrostis humilis</i>	0		0	5
<i>Carex scopulorum</i>	0	1	1	3
<i>Carex simulata</i>	0		0	5
<i>Carex utriculata</i>	0		0	5
<i>Deschampsia cespitosa</i>	0		0	5
<i>Eleocharis palustris</i> (wetland/riparian)	0		0	5
<i>Eleocharis pauciflora</i>	0		0	5
<i>Festuca idahoensis-Agropyron spicatum</i>	0	1	1	3
<i>Festuca viridula</i>	0	4	2	4
<i>Glyceria borealis</i>	0		0	5
<i>Juncus balticus</i>	0		0	5
<i>Juncus drummondii-Carex spp.</i>	0		0	5
<i>Juncus parryi</i>	0	1	1	3
<i>Phalaris arundinacea</i>	0	1	1	3
<i>Scirpus acutus</i>	0		0	5
Perennial forb vegetation				
<i>Equisetum fluviatile</i>	0		0	5
<i>Xerophyllum tenax</i>	0	3	1	3

Appendices

Appendix A. Research Natural Areas on National Forest System lands in Idaho listed by ecological section with the code for the area (fig. 1), the size of the area (acres), and minimum and maximum and elevations.

Area and section	Code	Size	Minimum elevation	Maximum elevation
Northwest Basin and Range, Section 342B-Eastern Portion				
Mount Harrison	MH	381	8,400	9,240
Pole Canyon	PC	333	6,600	8,376
Trapper Creek	TP	450	5,920	6,400
Yellowstone Highlands, Section M331A				
Moose Creek Plateau	MB	440	7,900	8,260
Sheep Falls	SF	115	5,800	6,000
Thurmon Creek	TU	607	6,145	6,745
Willow Creek	WI	1,100	5,580	6,165
Overthrust Mountains, Section M331D				
Burns Canyon	BS	490	5,810	7,652
Burton Canyon	BT	1,050	6,020	7,855
Gibson Jack Creek	GJ	2,210	5,400	7,214
Horse Creek	HC	550	6,690	8,275
Meade Peak	MP	305	8,600	9,957
St. Charles Creek	SA	410	6,700	8,453
West Fork Mink Creek	WF	640	6,000	7,000
Idaho Batholith, Section M332A				
Back Creek	BC	1,368	6,200	8,922
Bannock Creek	BN	438	4,960	6,200
Bear Creek	BP	387	5,040	7,499
Bruin Mountain	BR	680	6,350	8,690
Circle End Creek	CE	1,656	3,551	7,769
Colson Creek	CO	280	3,100	4,515
Dome Lake	DL	1,700	4,700	9,316
Dry Buck	DB	390	3,500	5,280
Dry Gulch - Forge Creek	DG	3,235	4,610	8,140
Dutch Creek	DU	303	2,300	3,532
Eggers Creek	EC	325	4,760	6,460
Elk Creek Exclosure	EE	108	3,960	4,400
Elk Creek	EL	7,000	2,000	8,371
Fenn Mountain	FM	600	6,210	8,021
Fish Lake	FL	754	5,605	6,400
Frog Meadows	FR	330	7,220	7,985
Grave Peak	GP	360	6,850	8,282
Gunbarrel Creek	GC	1,600	2,880	7,192
Lava Butte	LB	370	7,420	8,328
Lochsa	LO	1,490	1,600	3,680
Lowman	LW	380	4,080	5,200
Monumental Creek	MU	740	3,750	6,057
Moose Meadow Creek	MM	1,015	6,400	7,425
Mystery Lake	MY	520	8,560	10,329
Needles	NE	985	6,750	8,880
No Business Creek	NB	1,360	2,520	7,200
North Fork Boise River	NF	1,000	4,000	6,000
O'Hara Creek	OC	7,000	2,080	6,815
Patrick Butte	PB	690	6,520	8,841
Phoebe Meadows	PM	1,500	6,100	7,400
Pole Creek Exclosure	PE	27	7,320	7,360
Pony Meadows	PN	1,460	6,550	8,376

Cont'd.

Appendix A. Cont'd.

Area and section	Code	Size	Minimum elevation	Maximum elevation
Idaho Batholith, Section M332A (Cont'd.)				
Raspberry Gulch	RG	640	3,520	4,880
Redfish Lake Moraine	RLI	1,470	6,547	7,520
Roaring River	RR	600	5,200	7,680
Salmon Mountain	SM	1,923	6,360	8,800
Sawtooth Valley Peatlands	SV	273	6,640	6,840
Sneakfoot Meadows	SW	1,965	5,890	6,616
Soldier Lakes	SL	175	7,900	9,147
Square Mountain Creek	SQ	709	6,635	8,000
Trinity Mountain	TM	200	8,130	9,451
Upper Newsome Creek	UN	1,201	4,430	5,720
Warm Springs Creek	WS	530	3,910	5,320
Beaverhead Mountains, Section M332E				
Allan Mountain	AM	1,650	6,450	9,154
Copper Mountain	CM	550	8,320	10,303
Davis Canyon	DC	1,215	5,700	10,028
Kenney Creek	KC	1,580	7,480	9,604
Mahogany Creek	MC	3,650	8,310	11,828
Meadow Canyon	ME	3,880	7,700	11,612
Merriam Lake Basin	ML	740	9,580	12,065
Middle Canyon	MI	2,200	5,600	10,810
Mill Lake	MA	800	8,820	10,693
Sheep Mountain	SB	624	9,840	10,865
Targhee Creek	TC	2,640	7,420	10,388
Webber Creek	WC	2,425	7,600	11,393
Challis Volcanics, Section M332F				
Basin Gulch	BG	1,175	6,650	10,458
Belvidere Creek	BE	2,920	6,200	9,273
Cache Creek Lakes	CC	750	7,500	9,881
Chilcoat Peak	CP	1,294	7,250	8,998
Iron Bog	IB	434	7,000	8,600
Smiley Mountain	SI	3,080	9,440	11,508
Surprise Valley	SU	1,470	8,800	11,878
Blue Mountains, Section M332G				
Alum Beds	AB	600	1,200	4,800
Bear Creek	BA	310	5,320	6,265
Bills Creek	BI	30	1,200	2,000
Council Mountain	CU	150	7,640	8,126
Cuddy Mountain	CD	1,040	3,700	7,187
Emery Creek	EM	1,200	2,800	5,860
Lightning Creek	LC	2,175	2,000	7,600
Little Granite Creek	LG	5,700	1,400	7,993
Lost Basin Grassland	LS	140	4,800	5,560
Pony Creek	PO	1,875	3,640	8,048
Rocky Comfort Flat	RC	953	3,350	4,515
Okanogan Highlands, Section M333A				
Binarch Creek	BB	660	2,660	3,200
Bottle Lake	BO	260	2,800	3,368
Canyon Creek	CA	977	4,150	5,970
Kaniksu Marsh	KM	195	2,420	2,525
Potholes	PT	274	2,750	3,150

Cont'd.

Appendix A. Cont'd.

Area and section	Code	Size	Minimum elevation	Maximum elevation
Okanogan Highlands, Section M333A (Cont'd.)				
Smith Creek	SC	1,340	4,700	6,742
Snowy Top	ST	835	5,060	7,572
Tepee Creek	TE	660	2,450	3,200
Three Ponds	TR	240	3,340	3,905
Upper Priest River	UP	612	2,460	2,500
Flathead Valley, Section M333B				
Hunt Girl Creek	HG	1,505	3,900	6,298
Scotchman No. 2	SN	1,270	4,320	6,989
Bitterroot Mountains, Section M333D				
Aquarius	AQ	3,900	1,600	3,995
Bald Mountain	BM	365	5,760	6,526
Bull Run Creek	BU	373	2,190	2,940
Chateau Falls	CF	200	2,200	3,880
Five Lakes Butte	FL	310	5,700	6,859
Four-bit Creek	FC	392	3,540	4,240
Montford Creek	MO	292	3,050	4,400
Pond Peak	PP	270	4,880	6,136
Rhodes Peak	RP	310	6,440	7,930
Spion Kop	SK	465	2,755	3,490
Steep Lakes	SE	784	5,750	7,290
Therault Lake	TH	120	5,700	6,500
Upper Fishhook	UF	320	4,280	4,880
Upper Shoshone Creek	US	1,407	3,618	6,444

Appendix B. Research Natural Areas on National Forest System lands in Idaho listed by lead Forest and Ranger District with proposed Research Natural Areas (pRNA) and established Research Natural Areas (RNA).

Boise National Forest

Cascade Ranger District

Back Creek	RNA
Chilcoot Peak	RNA
Needles	RNA

Emmett Ranger District

Dry Buck	RNA
Eggers Creek	RNA

Idaho City Ranger District

Bannock Creek	RNA
North Fork Boise River	RNA

Lowman Ranger District

Bear Creek	RNA
Lowman	RNA
Monumental Creek	RNA

Mountain Home Ranger District

Elk Creek Exclosure	RNA
Roaring River	RNA
Raspberry Gulch	RNA
Trinity Mountain	RNA

Caribou National Forest

Montpelier Ranger District

Burton Canyon	RNA
Elk Valley	pRNA
Meade Peak	RNA
St. Charles Creek	RNA

Pocatello Ranger District

Gibson Jack Creek	RNA
West Fork Mink Creek	RNA

Soda Springs Ranger District

Horse Creek	RNA
-------------	-----

Clearwater National Forest

Lochsa Ranger District

Bald Mountain	RNA
Dutch Creek	RNA
Fenn Mountain	pRNA
Lochsa	RNA

North Fork Ranger District

Aquarius	RNA
Chateau Falls	RNA
Rhodes Peak	pRNA
Steep Lakes	RNA

Palouse Ranger District

Bull Run Creek	RNA
----------------	-----

Pierce Ranger District

Four-bit Creek	RNA
----------------	-----

Powell Ranger District

Grave Peak	RNA
Sneakfoot Meadows	RNA

Idaho Panhandle National Forests

Avery Ranger District

Five Lakes Butte	RNA
Upper Fishhook	RNA

Bonnerr's Ferry Ranger District

Hunt Girl Creek	RNA
Smith Creek	RNA
Three Ponds	RNA

Fernan Ranger District

Montford Creek	RNA
----------------	-----

Priest Lake Ranger District

Binarch Creek	RNA
Bottle Lake	RNA
Canyon Creek	RNA
Kaniksu Marsh	RNA
Potholes	RNA
Snowy Top	RNA
Tepee Creek	RNA
Upper Priest River	pRNA

Sandpoint Ranger District

Scotchman No. 2	RNA
-----------------	-----

St. Maries Ranger District

Therault Lake	RNA
---------------	-----

Wallace Ranger District

Pond Peak	RNA
Spion Kop	RNA
Upper Shoshone Creek	RNA

Nez Perce National Forest

Elk City Ranger District

Upper Newsome Creek	RNA
---------------------	-----

Red River Ranger District

Elk Creek	RNA
Fish Lake	RNA
Moose Meadow Creek	RNA
Salmon Mountain	RNA
Warm Springs Creek	RNA

Salmon River Ranger District

No Business Creek	RNA
Square Mountain Creek	RNA

Cont'd.

Appendix B. Cont'd.**Selway Ranger District**

O'Hara Creek	RNA
--------------	-----

**Hells Canyon National Recreation Area
(Administered by Wallowa-Whitman National Forest)**

Little Granite Creek	pRNA
Alum Beds	pRNA
Lightning Creek	pRNA
Bills Creek	pRNA

Payette National Forest**Council Ranger District**

Bear Creek	RNA
Council Mountain	RNA
Emery Creek	RNA
Lost Basin Grassland	RNA
Rocky Comfort Flat	RNA

Krassel Ranger District

Belvidere Creek	RNA
Circle End Creek	RNA
Phoebe Meadows	RNA

McCall Ranger District

Pony Meadows	RNA
--------------	-----

New Meadows Ranger District

Bruin Mountain	RNA
Lava Butte	RNA
Patrick Butte	pRNA
Pony Creek	RNA

Weiser Ranger District

Cuddy Mountain	RNA
----------------	-----

Salmon - Challis National Forests**Challis Ranger District**

Mahogany Creek	RNA
Merriam Lake Basin	RNA

Cobalt Ranger District

Dry Gulch - Forge Creek	RNA
Frog Meadows	RNA

Lost River Ranger District

Iron Bog	RNA
Middle Canyon	RNA
Smiley Mountain	RNA
Surprise Valley	RNA

Leadore Ranger District

Bear Valley Creek	RNA
Mill Lake	RNA
Kenney Creek	RNA
Sheep Mountain	RNA

Middle Fork Ranger District

Cache Creek Lakes	RNA
Soldier Lakes	RNA

North Fork Ranger District

Allan Mountain	RNA
Colson Creek	RNA
Davis Canyon	RNA
Dome Lake	RNA
Gunbarrel Creek	RNA

Yankee Fork Ranger District

Mystery Lake	RNA
--------------	-----

Sawtooth National Forest**Burley Ranger District**

Mount Harrison	RNA
Pole Canyon	RNA

Ketchum Ranger District

Basin Gulch	RNA
-------------	-----

Sawtooth National Recreation Area

Pole Creek Exclosure	RNA
Redfish Lake Moraine	RNA
Sawtooth Valley Peatlands	RNA

Twin Falls Ranger District

Trapper Creek	RNA
---------------	-----

Targhee National Forest**Ashton Ranger District**

Sheep Falls	pRNA
Willow Creek	RNA

Dubois Ranger District

Copper Mountain	RNA
Meadow Canyon	RNA
Webber Creek	RNA

Island Park Ranger District

Moose Creek Plateau	RNA
Targhee Creek	RNA
Thurmon Creek	RNA

Palisades Ranger District

Burns Canyon	RNA
--------------	-----

Appendix C. Natural Areas considered in the representativeness assessment listed alphabetically by the State in which they occur.

Idaho

Allan Mountain
Allison Creek Island
Aquarius
Back Creek
Bald Mountain
Bannock Creek
Basin Gulch
Bear Valley Creek
Bear Creek (Payette)
Bear Creek (Boise)
Belvidere Creek
Binarch Creek
Blackfoot River
Bottle Lake
Bruin Mountain
Bull Run Creek
Burns Canyon RNA
Burton Canyon
Cache Creek Lakes
Canyon Creek
Chateau Falls
Cheatbeck Canyon
Chilcoot Peak
Circle End Creek
Colson Creek
Copper Mountain
Council Mountain
Cuddy Mountain
Davis Canyon
Dome Lake
Dry Gulch - Forge Creek
Dry Buck
Dutch Creek
East Shore Henrys Lake
Eggers Creek
Elk Butte Mountain Hemlock
Elk Creek
Elk Creek Exclosure
Emery Creek
Fenn Mountain
Fish Lake
Five Lakes Butte
Flat Ranch
Four-bit Creek
Frog Meadows
Garden Creek Preserve
Gibson Jack Creek
Goodrich Creek
Grave Peak
Gunbarrel Creek
Gunsight Peak
Horse Creek RNA
Hunt Girl Creek
Idler's Rest Site

Idaho (Cont'd.)

Iron Bog
Jim Sage Canyon
Kaniksu Marsh
Kenney Creek
Lava Butte
Little Granite Creek
Lochsa
Lost Basin Grassland
Lowman
Lucky Dog Creek
Mahogany Creek
Meade Peak
Meadow Canyon
Middle Canyon
Mill Lake
Montford Creek
Monumental Creek
Moose Meadow Creek
Moose Creek Plateau
Morris Creek Old Growth Cedar Grove
Mount Harrison
Mystery Lake
Needles
No Business Creek
North Fork Boise River
O'Hara Creek
Oxford Slough
Pecks Canyon
Petticoat Peak
Phoebe Meadows
Pole Canyon
Pole Creek Exclosure
Pond Peak
Pony Creek
Pony Meadows
Potholes
Raspberry Gulch
Redfish Lake Moraine
Rhodes Peak
Roaring River
Robbers Roost Creek
Rocky Comfort Flat
Salmon Mountain
Sand Creek Ponds
Sawtooth Valley Peatlands
Scotchman No. 2
Sheep Mountain
Smiley Mountain
Smith Creek
Sneakfoot Meadows
Snowy Top
Soldier Lakes
Spion Kop

Idaho (Cont'd.)

Square Mountain Creek
St. Charles Creek
Steep Lakes
Surprise Valley
Swamp Hollow
Targhee Creek
Tepee Creek
Therault Lake
Three Ponds
Thurmon Creek
Trapper Creek
Trinity Mountain
Upper Shoshone Creek
Upper Priest River
Upper Newsome Creek
Upper Fishhook
Wapshilla Ridge
Warm Springs Creek
Webber Creek
West Fork Mink Creek
Willow Creek

Montana

Barktable Ridge
Basin Creek
Big Creek
Cattle Gulch
Cave Mountain
Cliff Lake
Cottonwood Creek
Elkhorn Lake
Horse Prairie
Hoskins Lake
Lebeau
Little Bitterroot
Lower Ross Creek
Norman-Parmenter
Pete Creek Meadows
Skull-Odell
T. W. Daniels
Wolf-Weigel

Utah

Mollens Hollow

Washington

Bunchgrass Meadows
Roundtop Mountain
Salmo

Wyoming

Afton Front
Gros Ventre
Osborn Mountain
Swift Creek

Cont'd.

Appendix C. (Cont'd.)

Conservation sites considered for inclusion in the analysis but eliminated due to the nature of information on plant community element occurrences listed alphabetically by State.

Idaho

Big Elk Creek
Buckwheat Flats
Cronks Canyon
East Fork Salmon River Bench
Fishhook Creek
Goose Creek Mesa
Hemingway Preserve Site
Hidden Lake
Hobo Cedar Grove
Kootenai National Wildlife Refuge Site
Lake Creek
Lewis and Clark Grove
Lucile Caves
Lund Creek
Mcarthur Lake Wildlife Management Area
Merriam Lake Basin
Middle Canyon Alluvial Fan
Oneida Narrows
Patrick Butte
Red Horse Mountain
Settler's Grove of Ancient Cedars
Sheep Falls
Shepherd Lake
Southwest Lemhi Range
Summer Creek
Tex Creek
Thomas Fork Valley
Trail Creek
Worm Creek

Montana

Berray Mountain Cedars
Goat Flat

Oregon

Baldy Mountain
Basin Creek
Bills Creek
Bobs Creek
Canyon Creek
Dry Mountain
Duck Lake
Dugout Creek
Elk Flats - Wenaha Breaks
Government Draw
Haystack Rock
Horse Pasture Ridge
Kelly Creek Butte
Ochoco Divide
Pataha Bunchgrass
Pleasant Valley
Point Prominence
Rainbow Creek
Razz Lake
Shake Table Mountain
Silver Creek
Stinger Creek
Vinegar Hill

Washington

Baird Basin
Fire Mountain
Halliday Fen
Maitlen Creek
Maple Mountain
Thirteen Mile Pond

Appendix D. Plant community elements that occur in Research Natural Areas on National Forest System lands in Idaho listed alphabetically by Research Natural Area with the total area of occurrence. Blank entries indicate missing data.

	Acres
Allan Mountain	
<i>Abies lasiocarpa/Ledum glandulosum</i>	5
<i>Abies lasiocarpa/Menziesia ferruginea</i>	100
<i>Abies lasiocarpa/Xerophyllum tenax, Luzula hitchcockii</i> phase	400
<i>Abies lasiocarpa/Xerophyllum tenax, Vaccinium globulare</i> phase	100
<i>Abies lasiocarpa/Xerophyllum tenax, Vaccinium scoparium</i> phase	400
<i>Larix lyallii-Abies lasiocarpa</i>	80
<i>Pinus albicaulis-Abies lasiocarpa</i>	80
Alum Beds	
Aquarius	
<i>Abies grandis/Asarum caudatum</i>	266
<i>Abies grandis/Clintonia uniflora</i>	479
<i>Abies grandis/Physocarpus malvaceus</i>	266
<i>Abies grandis/Spiraea betulifolia</i>	106
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	479
<i>Thuja plicata/Dryopteris</i> spp.	62
<i>Thuja plicata/Adiantum pedatum</i>	1,310
<i>Thuja plicata/Asarum caudatum</i>	325
<i>Thuja plicata/Athyrium filix-femina</i>	69
<i>Thuja plicata/Clintonia uniflora</i>	404
<i>Thuja plicata/Lysichitum americanum</i>	11
<i>Thuja plicata/Oplopanax horridum</i>	48
Back Creek	
<i>Abies lasiocarpa/Calamagrostis canadensis, Ligusticum canbyi</i> phase	13
<i>Abies lasiocarpa/Calamagrostis canadensis, Vaccinium caespitosum</i> phase	13
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	150
<i>Abies lasiocarpa/Caltha biflora</i>	50
<i>Abies lasiocarpa/Carex geyeri</i>	200
<i>Abies lasiocarpa/Ledum glandulosum</i>	13
<i>Abies lasiocarpa/Luzula hitchcockii, Luzula hitchcockii</i> phase	15
<i>Abies lasiocarpa/Luzula hitchcockii, Vaccinium scoparium</i> phase	15
<i>Abies lasiocarpa/Menziesia ferruginea, Menziesia ferruginea</i> phase	15
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	40
<i>Abies lasiocarpa/Vaccinium caespitosum</i>	7
<i>Abies lasiocarpa/Vaccinium globulare</i>	30
<i>Abies lasiocarpa/Vaccinium scoparium, Calamagrostis rubescens</i> phase	100
<i>Abies lasiocarpa/Vaccinium scoparium, Pinus albicaulis</i> phase	100
<i>Abies lasiocarpa/Vaccinium scoparium, Vaccinium scoparium</i> phase	100
<i>Pinus contorta/Festuca idahoensis</i>	3
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	100
<i>Pseudotsuga menziesii/Carex geyeri</i>	350

Cont'd.

Appendix D. (Cont'd.)

	Acres
Bald Mountain	
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Luzula hitchcockii</i> phase	75
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Xerophyllum tenax</i> phase	75
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	8
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	8
<i>Festuca viridula</i>	35
<i>Tsuga mertensiana</i> / <i>Luzula hitchcockii</i>	5
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i> , <i>Luzula hitchcockii</i> phase	70
<i>Xerophyllum tenax</i>	90
Bannock Creek	
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	44
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	44
<i>Pinus ponderosa</i> / <i>Purshia tridentata</i>	12
<i>Pinus ponderosa</i> / <i>Symphoricarpos oreophilus</i>	12
<i>Pseudotsuga menziesii</i> / <i>Carex geyeri</i> , <i>Pinus ponderosa</i> phase	65
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	65
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i> , <i>Calamagrostis rubescens</i> phase	65
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	65
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	65
Basin Gulch	
<i>Abies lasiocarpa</i> / <i>Arnica cordifolia</i>	55
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	40
<i>Abies lasiocarpa</i> / <i>Ribes montigenum</i>	305
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	8
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	8
<i>Pinus albicaulis</i> / <i>Poa nervosa</i>	65
<i>Pseudotsuga menziesii</i> / <i>Juniperus communis</i>	20
Bear Creek (Payette)	
<i>Abies grandis</i> / <i>Spiraea betulifolia</i>	43
<i>Abies grandis</i> / <i>Vaccinium globulare</i>	298
Bear Creek (Boise)	
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	100
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	200
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	25
Bear Valley Creek	
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i> , <i>Calamagrostis canadensis</i> phase	8
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i>	416
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	18
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	8
<i>Abies lasiocarpa</i> / <i>Linnaea borealis</i>	31
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	60
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	25
<i>Picea engelmannii</i> / <i>Carex disperma</i>	33
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	193
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	1,005
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	50
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	17
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	241

Cont'd.

Appendix D. (Cont'd.)

	Acres
Belvidere Creek	
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	254
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	254
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	254
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Menziesia ferruginea</i> phase	254
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i>	254
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	254
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	127
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	127
<i>Alnus sinuata</i>	1
<i>Artemisia tridentata</i> <i>vaseyana</i> / <i>Festuca idahoensis</i>	200
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	399
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	20
Bills Creek	
Binarch Creek	
<i>Abies grandis</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	40
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Physocarpus malvaceus</i> phase	20
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	100
<i>Thuja plicata</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	10
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Athyrium filix-femina</i> phase	5
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	5
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	10
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	200
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	100
Bottle Lake	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	10
<i>Carex lasiocarpa</i>	16
Poor fen	
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	10
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	224
Valley peatland floating mat	
Bruin Mountain	
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i> , <i>Ligusticum canbyi</i> phase	15
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	15
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Menziesia ferruginea</i> phase	40
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i> , <i>Ligusticum canbyi</i> phase	1
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i> , <i>Vaccinium scoparium</i> phase	50
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	55
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	20
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	20
<i>Alnus sinuata</i>	120
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	80

Cont'd.

Appendix D. (Cont'd.)

	Acres
Bull Run Creek	
<i>Abies grandis</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	40
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	40
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Physocarpus malvaceus</i> phase	20
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	40
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	20
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	30
<i>Thuja plicata</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	45
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	45
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	45
<i>Thuja plicata</i> / <i>Gymnocarpium dryopteris</i>	45
Burns Canyon	
<i>Abies lasiocarpa</i> / <i>Acer glabrum</i>	5
<i>Abies lasiocarpa</i> / <i>Physocarpus malvaceus</i>	160
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i> , <i>Pachistima myrsinites</i> phase	10
<i>Acer grandidentatum</i> / <i>Calamagrostis rubescens</i>	50
<i>Alnus incana</i> / <i>Ribes hudsonianum</i>	5
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	20
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	5
<i>Cornus stolonifera</i> / <i>Heracleum lanatum</i>	5
<i>Populus tremuloides</i> - <i>Pseudotsuga menziesii</i> / <i>Amelanchier alnifolia</i>	15
<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	15
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Pachistima myrsinites</i> phase	185
Burton Canyon	
<i>Abies lasiocarpa</i> / <i>Acer glabrum</i>	53
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i> , <i>Calamagrostis rubescens</i> phase	53
<i>Abies lasiocarpa</i> / <i>Osmorhiza chilensis</i>	53
<i>Acer grandidentatum</i> / <i>Osmorhiza chilensis</i>	43
<i>Artemisia tridentata</i> spiciformis/ <i>Bromus carinatus</i>	40
<i>Artemisia tridentata</i> vaseyana- <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	40
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	40
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	240
<i>Cornus stolonifera</i> / <i>Galium trifolium</i>	5
<i>Populus tremuloides</i> - <i>Pseudotsuga menziesii</i> / <i>Amelanchier alnifolia</i>	43
<i>Populus tremuloides</i> / <i>Thalictrum fendleri</i>	43
<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	70
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i> , <i>Calamagrostis rubescens</i> phase	35
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i> , <i>Pachistima myrsinites</i> phase	35
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	70
<i>Pseudotsuga menziesii</i> / <i>Osmorhiza chilensis</i>	70
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	70
Cache Creek Lakes	
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i> , <i>Carex geyeri</i> phase	83
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	83
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	83
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Pinus albicaulis</i> phase	83
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	158

Cont'd.

Appendix D. (Cont'd.)

	Acres
Canyon Creek	
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	40
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	300
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	20
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	150
<i>Festuca viridula</i>	17
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	5
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	10
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	10
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i>	40
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	250
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	40
<i>Tsuga heterophylla</i> / <i>Menziesia ferruginea</i>	30
Chateau Falls	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	25
<i>Abies grandis</i> / <i>Linnaea borealis</i>	10
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	40
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	120
<i>Thuja plicata</i> / <i>Adiantum pedatum</i>	5
Chilcoot Peak	
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i> , <i>Calamagrostis canadensis</i> phase	30
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i> , <i>Ligusticum canbyi</i> phase	20
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i>	190
<i>Abies lasiocarpa</i> / <i>Caltha biflora</i>	10
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	285
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	20
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i> , <i>Luzula hitchcockii</i> phase	50
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i> , <i>Vaccinium scoparium</i> phase	15
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	30
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	33
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	285
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	30
<i>Pseudotsuga menziesii</i> / <i>Carex geyeri</i>	65
Circle End Creek	
<i>Abies grandis</i> / <i>Vaccinium globulare</i>	73
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	44
<i>Pinus ponderosa</i> / <i>Agropyron spicatum</i>	20
<i>Pinus ponderosa</i> / <i>Festuca idahoensis</i>	20
<i>Pinus ponderosa</i> / <i>Purshia tridentata</i> , <i>Agropyron spicatum</i> phase	248
<i>Pinus ponderosa</i> / <i>Symphoricarpos oreophilus</i>	200
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	20
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	586
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	243

Cont'd.

Appendix D. (Cont'd.)

	Acres
Colson Creek	
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	11
<i>Artemisia tripartita/Agropyron spicatum</i>	8
<i>Artemisia tripartita/Festuca idahoensis</i>	9
<i>Glossopetalon nevadense/Agropyron spicatum</i>	35
<i>Pinus ponderosa/Agropyron spicatum</i>	2
<i>Pinus ponderosa/Festuca idahoensis</i>	5
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	55
Copper Mountain	
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	105
<i>Festuca idahoensis</i> (alpine)	38
<i>Leucopoa kingii/Achillea millefolium</i>	38
<i>Pinus albicaulis</i> (timberline)	15
<i>Pinus flexilis/Cercocarpus ledifolius</i>	15
Council Mountain	
<i>Abies lasiocarpa/Ribes montigenum</i>	22
<i>Artemisia tridentata spiciformis/Carex geyeri</i>	15
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	21
Cuddy Mountain	
<i>Abies grandis/Acer glabrum</i>	10
<i>Abies lasiocarpa/Acer glabrum</i>	151
<i>Agropyron spicatum-Poa secunda/Balsamorhiza sagittata</i>	61
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	35
<i>Pseudotsuga menziesii/Acer glabrum</i>	235
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	235
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	235
Davis Canyon	
<i>Abies lasiocarpa/Carex geyeri</i>	20
<i>Abies lasiocarpa/Menziesia ferruginea</i>	40
<i>Abies lasiocarpa/Xerophyllum tenax, Vaccinium scoparium</i> phase	300
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	15
<i>Pinus albicaulis</i> (timberline)	80
<i>Pinus albicaulis-Abies lasiocarpa</i>	40
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	60
<i>Pseudotsuga menziesii/Carex geyeri</i>	260
<i>Pseudotsuga menziesii/Physocarpus malvaceus, Calamagrostis rubescens</i> phase	25
<i>Pseudotsuga menziesii/Physocarpus malvaceus, Pinus ponderosa</i> phase	25
<i>Pseudotsuga menziesii/Spiraea betulifolia, Calamagrostis rubescens</i> phase	60
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	40
<i>Pseudotsuga menziesii/Xerophyllum tenax</i>	30

Cont'd.

Appendix D. (Cont'd.)

	Acres
Dome Lake	
<i>Abies lasiocarpa/Ledum glandulosum</i>	30
<i>Abies lasiocarpa/Menziesia ferruginea</i>	50
<i>Abies lasiocarpa/Vaccinium globulare</i>	100
<i>Abies lasiocarpa/Vaccinium scoparium</i>	275
<i>Abies lasiocarpa/Xerophyllum tenax</i>	210
<i>Picea engelmannii/Galium trifolium</i>	30
<i>Pinus albicaulis-Abies lasiocarpa</i>	5
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	500
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	50
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	25
Dry Buck	
<i>Abies grandis/Acer glabrum, Acer glabrum phase</i>	431
<i>Abies grandis/Acer glabrum, Physocarpus malvaceus phase</i>	268
<i>Pseudotsuga menziesii/Physocarpus malvaceus, Pinus ponderosa phase</i>	5
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	8
Dry Gulch-Forge Creek	
<i>Abies lasiocarpa/Carex geyeri</i>	175
<i>Abies lasiocarpa/Vaccinium scoparium</i>	175
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	300
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	300
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	300
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	325
<i>Festuca idahoensis-Agropyron spicatum</i>	300
<i>Pinus ponderosa/Agropyron spicatum</i>	50
<i>Pseudotsuga menziesii/Acer glabrum</i>	162
<i>Pseudotsuga menziesii/Agropyron spicatum</i>	162
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	162
<i>Pseudotsuga menziesii/Carex geyeri</i>	162
<i>Pseudotsuga menziesii/Cercocarpus ledifolius</i>	162
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	162
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	162
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	162
Thermal springs aquatic community	
Dutch Creek	
<i>Abies grandis/Vaccinium globulare</i>	58
<i>Thuja plicata/Adiantum pedatum</i>	30
<i>Thuja plicata/Asarum caudatum, Asarum caudatum phase</i>	85
<i>Thuja plicata/Athyrium filix-femina, Adiantum pedatum phase</i>	15
<i>Thuja plicata/Clintonia uniflora, Clintonia uniflora phase</i>	115
Eggers Creek	
<i>Abies grandis/Vaccinium globulare</i>	31
<i>Abies lasiocarpa/Carex geyeri</i>	7
<i>Abies lasiocarpa/Vaccinium globulare</i>	48
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	104
<i>Pseudotsuga menziesii/Spiraea betulifolia, Pinus ponderosa phase</i>	70
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	56

Cont'd.

Appendix D. (Cont'd.)

	Acres
Elk Creek	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	1
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i>	210
<i>Abies grandis</i> / <i>Spiraea betulifolia</i>	350
<i>Abies grandis</i> / <i>Vaccinium globulare</i>	700
<i>Abies grandis</i> / <i>Xerophyllum tenax</i>	140
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	1
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	700
<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	280
<i>Alnus sinuata</i>	1
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	140
<i>Glossopetalon nevadense</i> / <i>Agropyron spicatum</i>	1
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	1
<i>Pinus ponderosa</i> / <i>Agropyron spicatum</i>	1,050
<i>Pinus ponderosa</i> / <i>Physocarpus malvaceus</i>	350
<i>Pseudotsuga menziesii</i> / <i>Agropyron spicatum</i>	350
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	1,775
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	350
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	350
Elk Creek Exclosure	
<i>Artemisia tridentata</i> vaseyana- <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	28
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	79
Emery Creek	
<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	241
<i>Artemisia rigida</i> / <i>Poa secunda</i>	22
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	5
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	94
<i>Festuca idahoensis</i> - <i>Koeleria cristata</i>	20
<i>Glossopetalon nevadense</i> / <i>Agropyron spicatum</i>	33
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	66
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	66
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	66
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	66
Fenn Mountain	
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	17
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i>	17
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	8
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	8
<i>Carex aquatilis</i>	7
Fish Lake	
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i> , <i>Ligusticum canbyi</i> phase	5
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Coptis occidentalis</i> phase	5
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i> , <i>Ligusticum canbyi</i> phase	75
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Coptis occidentalis</i> phase	190
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	190
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	190
<i>Calamagrostis canadensis</i>	8
<i>Carex utriculata</i>	8
<i>Menziesia ferruginea</i> - <i>Juniperus communis</i>	20
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i> , <i>Calamagrostis rubescens</i> phase	20

Cont'd.

Appendix D. (Cont'd.)

	Acres
Five Lakes Butte	
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i> , <i>Xerophyllum tenax</i> phase	68
<i>Tsuga mertensiana</i> / <i>Phyllodoce empetrifolia</i>	20
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	40
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	40
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Xerophyllum tenax</i> phase	40
Four-bit Creek	
<i>Thuja plicata</i> / <i>Adiantum pedatum</i>	55
<i>Thuja plicata</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	32
<i>Thuja plicata</i> / <i>Asarum caudatum</i> , <i>Menziesia ferruginea</i> phase	32
<i>Thuja plicata</i> / <i>Asarum caudatum</i> , <i>Taxus brevifolia</i> phase	32
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Adiantum pedatum</i> phase	28
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Athyrium filix-femina</i> phase	28
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	42
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Menziesia ferruginea</i> phase	42
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Taxus brevifolia</i> phase	42
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Xerophyllum tenax</i> phase	42
<i>Thuja plicata</i> / <i>Gymnocarpium dryopteris</i>	15
Frog Meadows	
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i>	66
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	115
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	16
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Calamagrostis rubescens</i> phase	17
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Vaccinium scoparium</i> phase	99
Gibson Jack Creek	
<i>Acer grandidentatum</i> / <i>Berberis repens</i>	100
<i>Artemisia nova</i> / <i>Agropyron spicatum</i>	600
<i>Artemisia tridentata</i> vaseyana- <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	470
<i>Juniperus osteosperma</i> / <i>Artemisia nova</i> / <i>Agropyron spicatum</i>	80
<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	360
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	15
<i>Pseudotsuga menziesii</i> / <i>Osmorhiza chilensis</i>	30
Grave Peak	
<i>Larix lyallii</i> - <i>Abies lasiocarpa</i>	200
Gunbarrel Creek	
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	134
<i>Agropyron spicatum</i> - <i>Poa secunda</i>	85
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	85
<i>Pinus ponderosa</i> / <i>Agropyron spicatum</i>	367
<i>Pinus ponderosa</i> / <i>Festuca idahoensis</i>	367
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	167
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	167
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	167

Cont'd.

Appendix D. (Cont'd.)

	Acres
Horse Creek	
<i>Abies lasiocarpa</i> / <i>Acer glabrum</i> , <i>Pachistima myrsinites</i> phase	75
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i> , <i>Calamagrostis rubescens</i> phase	75
<i>Abies lasiocarpa</i> / <i>Osmorhiza chilensis</i> , <i>Pachistima myrsinites</i> phase	20
<i>Abies lasiocarpa</i> / <i>Physocarpus malvaceus</i>	20
<i>Abies lasiocarpa</i> / <i>Shepherdia canadensis</i>	5
<i>Abies lasiocarpa</i> / <i>Symphoricarpos albus</i>	5
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i> , <i>Vaccinium scoparium</i> phase	130
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Calamagrostis rubescens</i> phase	175
<i>Alnus incana</i> / <i>Cornus stolonifera</i>	10
<i>Cornus stolonifera</i>	3
<i>Picea engelmannii</i> / <i>Calamagrostis canadensis</i>	1
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	10
<i>Salix boothii</i> / <i>Calamagrostis canadensis</i>	8
Hunt Girl Creek	
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	406
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	248
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	424
<i>Abies lasiocarpa</i> / <i>Streptopus amplexifolius</i> , <i>Menziesia ferruginea</i> phase	23
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	248
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Athyrium filix-femina</i> phase	23
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	23
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	90
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	23
Iron Bog	
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	22
<i>Artemisia nova</i> / <i>Festuca idahoensis</i>	25
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	94
<i>Pseudotsuga menziesii</i> / <i>Arnica cordifolia</i>	157
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	26
Kaniksu Marsh	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	10
<i>Alnus incana</i> / <i>Carex utriculata</i>	5
<i>Betula glandulosa</i> / <i>Carex utriculata</i>	67
<i>Carex cusickii</i>	1
<i>Carex lasiocarpa</i>	13
Paludified forest	
Poor fen	
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	5
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	90
Valley peatland floating mat	
Valley peatland pond	4

Cont'd.

Appendix D. (Cont'd.)

	Acres
Kenney Creek	
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	250
<i>Abies lasiocarpa/Vaccinium scoparium</i>	250
<i>Picea engelmannii/Carex disperma</i>	250
<i>Pinus albicaulis/Carex geyseri</i>	94
<i>Pinus albicaulis/Festuca idahoensis</i>	94
<i>Pinus albicaulis/Juniperus communis</i>	94
<i>Pinus albicaulis/Vaccinium scoparium</i>	94
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	69
<i>Pseudotsuga menziesii/Carex geyseri</i>	69
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	69
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	69
Lava Butte	
<i>Abies lasiocarpa/Arnica cordifolia</i>	5
<i>Abies lasiocarpa/Caltha biflora</i>	5
<i>Abies lasiocarpa/Ledum glandulosum</i>	5
<i>Abies lasiocarpa/Luzula hitchcockii, Luzula hitchcockii phase</i>	3
<i>Abies lasiocarpa/Luzula hitchcockii, Vaccinium scoparium phase</i>	3
<i>Abies lasiocarpa/Vaccinium globulare</i>	15
<i>Abies lasiocarpa/Vaccinium scoparium, Vaccinium scoparium phase</i>	55
<i>Abies lasiocarpa/Xerophyllum tenax, Luzula hitchcockii phase</i>	33
<i>Abies lasiocarpa/Xerophyllum tenax, Vaccinium scoparium phase</i>	33
<i>Pinus albicaulis-Abies lasiocarpa</i>	20
Lightning Creek	
Little Granite Creek	
<i>Abies grandis/Acer glabrum</i>	250
<i>Abies grandis/Clintonia uniflora</i>	60
<i>Abies grandis/Vaccinium globulare</i>	200
<i>Abies lasiocarpa/Clintonia uniflora</i>	100
<i>Abies lasiocarpa/Luzula hitchcockii</i>	40
<i>Abies lasiocarpa/Menziesia ferruginea</i>	420
<i>Abies lasiocarpa/Vaccinium globulare</i>	100
<i>Abies lasiocarpa/Vaccinium scoparium</i>	600
<i>Agropyron spicatum-Poa secunda</i>	250
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	80
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	80
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	50
<i>Festuca idahoensis-Agropyron spicatum</i>	250
<i>Festuca idahoensis-Koeleria cristata</i>	150
<i>Glossopetalon nevadense/Agropyron spicatum</i>	5
<i>Pinus albicaulis-Abies lasiocarpa</i>	400
<i>Pinus ponderosa/Agropyron spicatum</i>	250
<i>Pinus ponderosa/Calamagrostis rubescens</i>	
<i>Pinus ponderosa/Festuca idahoensis</i>	250
<i>Pinus ponderosa/Physocarpus malvaceus</i>	50
<i>Pinus ponderosa/Symphoricarpos albus</i>	200
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	150
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	500
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	200

Cont'd.

Appendix D. (Cont'd.)

	Acres
Lochsa	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	455
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	115
<i>Thuja plicata</i> / <i>Clintonia uniflora</i>	920
Lost Basin Grassland	
<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	14
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	14
<i>Festuca idahoensis</i> - <i>Koeleria cristata</i>	14
<i>Glossopetalon nevadense</i> / <i>Agropyron spicatum</i>	10
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	4
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	16
<i>Symphoricarpos albus</i> - <i>Rosa</i> spp.	10
Lowman	
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Pachistima myrsinites</i> phase	245
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i> , <i>Pinus ponderosa</i> phase	18
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	161
Mahogany Creek	
<i>Abies lasiocarpa</i> / <i>Arnica cordifolia</i>	155
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	155
<i>Abies lasiocarpa</i> / <i>Ribes montigenum</i>	155
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	180
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	160
<i>Picea engelmannii</i> / <i>Juniperus communis</i>	155
<i>Pinus albicaulis</i> / <i>Festuca idahoensis</i>	73
<i>Pinus albicaulis</i> / <i>Juniperus communis</i>	73
<i>Pinus flexilis</i> / <i>Cercocarpus ledifolius</i>	73
<i>Pinus flexilis</i> / <i>Festuca idahoensis</i>	73
<i>Pinus flexilis</i> / <i>Juniperus communis</i>	73
<i>Pinus flexilis</i> / <i>Leucopoa kingii</i>	73
<i>Pseudotsuga menziesii</i> / <i>Arnica cordifolia</i>	35
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	35
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	35
<i>Pseudotsuga menziesii</i> / <i>Juniperus communis</i>	35
Meade Peak	
<i>Abies lasiocarpa</i> / <i>Ribes montigenum</i>	10
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	40
<i>Artemisia tridentata</i> vaseyana/ <i>Leucopoa kingii</i>	95
<i>Pinus flexilis</i> / <i>Leucopoa kingii</i>	90
<i>Pseudotsuga menziesii</i> / <i>Arnica cordifolia</i>	10
<i>Pseudotsuga menziesii</i> / <i>Berberis repens</i>	50
<i>Pseudotsuga menziesii</i> / <i>Juniperus communis</i>	10

Cont'd.

Appendix D. (Cont'd.)

	Acres
Meadow Canyon	
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	25
<i>Festuca idahoensis-Agropyron spicatum</i>	220
<i>Picea engelmannii/Hypnum revolutum</i>	575
<i>Pinus flexilis/Festuca idahoensis</i>	35
<i>Pseudotsuga menziesii/Arnica cordifolia</i>	320
<i>Pseudotsuga menziesii/Cercocarpus ledifolius</i>	20
<i>Pseudotsuga menziesii/Juniperus communis</i>	110
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	560
Merriam Lake Basin	
<i>Pinus albicaulis-Abies lasiocarpa</i>	26
Middle Canyon	
<i>Artemisia nova/Agropyron spicatum</i>	660
<i>Artemisia nova/Elymus ambiguus salmonis</i>	15
<i>Atriplex confertifolia/Oryzopsis hymenoides</i>	15
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	30
<i>Pinus flexilis</i> (timberline)	120
<i>Pseudotsuga menziesii/Cercocarpus ledifolius</i>	1,000
<i>Pseudotsuga menziesii/Juniperus communis</i>	20
<i>Pseudotsuga menziesii/Juniperus scopulorum</i>	40
<i>Pseudotsuga menziesii/Leucopoa kingii</i>	30
Mill Lake	
<i>Abies lasiocarpa/Vaccinium scoparium</i>	160
<i>Pinus albicaulis-Abies lasiocarpa</i>	100
Montford Creek	
<i>Thuja plicata/Athyrium filix-femina</i>	1
<i>Thuja plicata/Oplopanax horridum</i>	40
<i>Tsuga heterophylla/Asarum caudatum</i>	90
<i>Tsuga heterophylla/Clintonia uniflora</i>	102
<i>Tsuga heterophylla/Gymnocarpium dryopteris</i>	60
Monumental Creek	
<i>Agropyron spicatum-Poa secunda/Balsamorhiza sagittata</i>	156
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	5
<i>Pinus ponderosa/Agropyron spicatum</i>	116
<i>Pinus ponderosa/Purshia tridentata, Agropyron spicatum phase</i>	72
<i>Pinus ponderosa/Symphoricarpos oreophilus</i>	101
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	22
<i>Pseudotsuga menziesii/Carex geyeri</i>	17
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	136
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	53
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	14
<i>Purshia tridentata/Agropyron spicatum</i>	23
Moose Creek Plateau	
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	10
<i>Abies lasiocarpa/Vaccinium scoparium, Vaccinium scoparium phase</i>	340
<i>Pinus albicaulis/Carex rossii, Pinus contorta phase</i>	90

Cont'd.

Appendix D. (Cont'd.)

	Acres
Moose Meadow Creek	
<i>Abies lasiocarpa/Caltha biflora</i>	200
<i>Abies lasiocarpa/Ledum glandulosum</i>	15
<i>Abies lasiocarpa/Menziesia ferruginea, Vaccinium scoparium phase</i>	200
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	1
<i>Abies lasiocarpa/Xerophyllum tenax, Coptis occidentalis phase</i>	270
<i>Abies lasiocarpa/Xerophyllum tenax, Vaccinium scoparium phase</i>	270
<i>Calamagrostis canadensis</i>	30
<i>Carex utriculata</i>	30
<i>Eleocharis palustris</i> (wetland/riparian)	2
<i>Eleocharis pauciflora</i>	5
Mount Harrison	
<i>Abies lasiocarpa/Ribes montigenum</i>	45
<i>Artemisia arbuscula arbuscula/Agropyron spicatum</i>	10
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Bromus carinatus</i>	20
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	120
<i>Pinus flexilis/Cercocarpus ledifolius</i>	10
Mystery Lake	
<i>Abies lasiocarpa/Carex geyeri, Carex geyeri phase</i>	30
<i>Abies lasiocarpa/Juniperus communis</i>	30
<i>Abies lasiocarpa/Ledum glandulosum</i>	30
<i>Abies lasiocarpa/Vaccinium scoparium, Pinus albicaulis phase</i>	15
<i>Abies lasiocarpa/Vaccinium scoparium, Vaccinium scoparium phase</i>	15
<i>Pinus albicaulis-Abies lasiocarpa</i>	61
Needles	
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	109
<i>Abies lasiocarpa/Carex geyeri, Carex geyeri phase</i>	109
<i>Abies lasiocarpa/Luzula hitchcockii, Luzula hitchcockii phase</i>	55
<i>Abies lasiocarpa/Luzula hitchcockii, Vaccinium scoparium phase</i>	55
<i>Abies lasiocarpa/Menziesia ferruginea, Menziesia ferruginea phase</i>	109
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	109
<i>Abies lasiocarpa/Vaccinium globulare, Vaccinium globulare phase</i>	55
<i>Abies lasiocarpa/Vaccinium globulare, Vaccinium scoparium phase</i>	55
<i>Abies lasiocarpa/Vaccinium scoparium, Pinus albicaulis phase</i>	55
<i>Abies lasiocarpa/Vaccinium scoparium, Vaccinium scoparium phase</i>	55
<i>Abies lasiocarpa/Xerophyllum tenax, Vaccinium scoparium phase</i>	55
<i>Alnus sinuata</i>	
<i>Pinus albicaulis-Abies lasiocarpa</i>	35
<i>Pseudotsuga menziesii/Carex geyeri</i>	35

Cont'd.

Appendix D. (Cont'd.)

	Acres
No Business Creek	
<i>Abies grandis</i> / <i>Adiantum pedatum</i>	5
<i>Abies grandis</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	50
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	167
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Menziesia ferruginea</i> phase	167
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Xerophyllum tenax</i> phase	167
<i>Abies grandis</i> / <i>Coptis occidentalis</i>	90
<i>Abies grandis</i> / <i>Linnaea borealis</i> , <i>Linnaea borealis</i> phase	1
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i> , <i>Coptis occidentalis</i> phase	70
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i> , <i>Physocarpus malvaceus</i> phase	70
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Asarum caudatum</i>	50
<i>Abies grandis</i> / <i>Xerophyllum tenax</i> , <i>Coptis occidentalis</i> phase	5
<i>Abies grandis</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	5
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i> , <i>Menziesia ferruginea</i> phase	25
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Coptis occidentalis</i> phase	110
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Coptis occidentalis</i> phase	35
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	35
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	35
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	30
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	30
<i>Glossopetalon nevadense</i> / <i>Agropyron spicatum</i>	10
<i>Pinus ponderosa</i> / <i>Agropyron spicatum</i>	40
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Physocarpus malvaceus</i> phase	75
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Smilacina stellata</i> phase	75
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	5
North Fork Boise River	
<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	200
<i>Pseudotsuga menziesii</i> / <i>Agropyron spicatum</i>	200
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	200
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	200
O'Hara Creek	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	1,473
<i>Abies grandis</i> / <i>Xerophyllum tenax</i>	130
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	215
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	215
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	420
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	1,710
<i>Thuja plicata</i> / <i>Adiantum pedatum</i>	1,203
<i>Thuja plicata</i> / <i>Clintonia uniflora</i>	1,633
Patrick Butte	
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Menziesia ferruginea</i> phase	
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Pinus albicaulis</i> phase	
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	

Cont'd.

Appendix D. (Cont'd.)

	Acres
Phoebe Meadows	
<i>Abies grandis/Vaccinium globulare</i>	17
<i>Abies lasiocarpa/Calamagrostis canadensis</i> , <i>Calamagrostis canadensis</i> phase	5
<i>Abies lasiocarpa/Calamagrostis canadensis</i> , <i>Ligusticum canbyi</i> phase	5
<i>Abies lasiocarpa/Ledum glandulosum</i>	5
<i>Abies lasiocarpa/Menziesia ferruginea</i> , <i>Menziesia ferruginea</i> phase	15
<i>Abies lasiocarpa/Vaccinium caespitosum</i>	15
<i>Abies lasiocarpa/Vaccinium globulare</i>	15
<i>Abies lasiocarpa/Vaccinium scoparium</i>	15
<i>Pinus contorta/Vaccinium scoparium</i>	17
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	213
<i>Pseudotsuga menziesii/Spiraea betulifolia</i> , <i>Calamagrostis rubescens</i> phase	213
<i>Pseudotsuga menziesii/Vaccinium caespitosum</i>	213
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	213
Pole Canyon	
<i>Abies lasiocarpa/Berberis repens</i>	1
<i>Abies lasiocarpa/Carex geeyi</i>	1
<i>Abies lasiocarpa/Osmorhiza chilensis</i>	1
<i>Abies lasiocarpa/Thalictrum occidentale</i>	1
<i>Artemisia nova/Agropyron spicatum</i>	14
<i>Artemisia tridentata spiciformis/Bromus carinatus</i>	14
<i>Artemisia tridentata spiciformis/Carex geeyi</i>	14
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Agropyron spicatum</i>	14
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	14
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Calamagrostis rubescens</i>	10
<i>Pseudotsuga menziesii/Acer glabrum</i>	31
<i>Pseudotsuga menziesii/Berberis repens</i>	31
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	31
Pole Creek Exclosure	
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	4
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	11
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	11
<i>Carex utriculata</i>	2
<i>Potentilla fruticosa/Danthonia intermedia</i>	2
<i>Salix boothii/Carex utriculata</i>	2
<i>Salix wolfii/Carex utriculata</i>	2
Pond Peak	
<i>Tsuga mertensiana/Menziesia ferruginea</i> , <i>Luzula hitchcockii</i> phase	51
<i>Tsuga mertensiana/Menziesia ferruginea</i> , <i>Xerophyllum tenax</i> phase	51
<i>Tsuga mertensiana/Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	42
<i>Tsuga mertensiana/Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	42
<i>Tsuga mertensiana/Xerophyllum tenax</i> , <i>Xerophyllum tenax</i> phase	42

Cont'd.

Appendix D. (Cont'd.)

	Acres
Pony Creek	
<i>Abies grandis/Acer glabrum</i>	30
<i>Abies grandis/Clintonia uniflora</i>	350
<i>Abies grandis/Spiraea betulifolia</i>	130
<i>Abies grandis/Vaccinium globulare</i>	70
<i>Abies lasiocarpa/Luzula hitchcockii</i>	130
<i>Abies lasiocarpa/Vaccinium globulare</i>	150
<i>Abies lasiocarpa/Vaccinium scoparium</i>	20
<i>Abies lasiocarpa/Xerophyllum tenax</i>	20
<i>Alnus sinuata</i>	160
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	250
<i>Pinus albicaulis-Abies lasiocarpa</i>	40
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	100
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	30
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	20
Pony Meadows	
<i>Abies lasiocarpa/Calamagrostis canadensis, Calamagrostis canadensis phase</i>	50
<i>Abies lasiocarpa/Ledum glandulosum</i>	1
<i>Abies lasiocarpa/Menziesia ferruginea, Menziesia ferruginea phase</i>	185
<i>Abies lasiocarpa/Vaccinium globulare, Vaccinium globulare phase</i>	40
<i>Abies lasiocarpa/Xerophyllum tenax</i>	1,060
<i>Pinus albicaulis-Abies lasiocarpa</i>	35
Potholes	
<i>Alnus incana/Carex utriculata</i>	20
<i>Alnus incana/Lysichitum americanum</i>	15
<i>Distichlis stricta stricta</i>	
Poor fen	10
<i>Thuja plicata/Athyrium filix-femina, Athyrium filix-femina phase</i>	51
<i>Thuja plicata/Lysichitum americanum</i>	50
<i>Thuja plicata/Oplopanax horridum</i>	10
<i>Tsuga heterophylla/Asarum caudatum, Aralia nudicaulis phase</i>	26
<i>Tsuga heterophylla/Asarum caudatum, Asarum caudatum phase</i>	26
<i>Tsuga heterophylla/Clintonia uniflora, Clintonia uniflora phase</i>	51
Valley peatland floating mat	10
Valley peatland pond	5
Raspberry Gulch	
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	90
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	6
<i>Festuca idahoensis-Agropyron spicatum</i>	1
<i>Pinus ponderosa/Agropyron spicatum</i>	30
<i>Pinus ponderosa/Festuca idahoensis</i>	10
<i>Pinus ponderosa/Purshia tridentata, Agropyron spicatum phase</i>	57
<i>Pinus ponderosa/Symphoricarpos oreophilus</i>	58
<i>Pseudotsuga menziesii/Festuca idahoensis, Pinus ponderosa phase</i>	12
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	5
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	148
<i>Pseudotsuga menziesii/Physocarpus malvaceus, Pinus ponderosa phase</i>	89
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	63
<i>Purshia tridentata/Agropyron spicatum</i>	19

Cont'd.

Appendix D. (Cont'd.)

	Acres
Red Horse Mountain	
<i>Abies grandis</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Physocarpus malvaceus</i> phase	
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i> , <i>Physocarpus malvaceus</i> phase	
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Asarum caudatum</i>	
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Physocarpus malvaceus</i> phase	
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Smilacina stellata</i> phase	
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	
Redfish Lake Moraine	
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	160
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	160
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Menziesia ferruginea</i> phase	160
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Calamagrostis rubescens</i> phase	160
<i>Alnus sinuata</i>	10
<i>Pinus contorta</i> / <i>Carex geyeri</i>	236
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	307
<i>Pseudotsuga menziesii</i> / <i>Carex geyeri</i>	307
Rhodes Peak	
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	85
<i>Carex nigricans</i>	10
<i>Carex scopulorum</i>	5
<i>Juncus parryi</i>	5
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	113
Roaring River	
<i>Abies lasiocarpa</i> / <i>Acer glabrum</i>	40
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	40
<i>Abies lasiocarpa</i> / <i>Spiraea betulifolia</i>	40
<i>Artemisia tridentata</i> vaseyana/ <i>Agropyron spicatum</i>	22
<i>Pseudotsuga menziesii</i> / <i>Acer glabrum</i>	33
<i>Pseudotsuga menziesii</i> / <i>Berberis repens</i> , <i>Berberis repens</i> phase	16
<i>Pseudotsuga menziesii</i> / <i>Berberis repens</i> , <i>Carex geyeri</i> phase	16
<i>Pseudotsuga menziesii</i> / <i>Carex geyeri</i> , <i>Symphoricarpos oreophilus</i> phase	33
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Pinus ponderosa</i> phase	33
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	33
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos oreophilus</i>	33
<i>Purshia tridentata</i> / <i>Agropyron spicatum</i>	22

Cont'd.

Appendix D. (Cont'd.)

	Acres
Rocky Comfort Flat	
<i>Agropyron spicatum</i> - <i>Poa secunda</i> / <i>Balsamorhiza sagittata</i>	209
<i>Artemisia rigida</i> / <i>Poa secunda</i>	173
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	41
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	199
<i>Cercocarpus ledifolius</i> / <i>Festuca idahoensis</i>	78
<i>Crataegus douglasii</i> / <i>Symphoricarpos albus</i>	6
<i>Festuca idahoensis</i> - <i>Agropyron spicatum</i>	22
<i>Pinus ponderosa</i> / <i>Symphoricarpos albus</i>	6
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Pinus ponderosa</i> phase	214
<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i> , <i>Pinus ponderosa</i> phase	31
<i>Purshia tridentata</i> / <i>Festuca idahoensis</i>	3
Salmon Mountain	
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i>	33
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	769
<i>Larix lyallii</i> - <i>Abies lasiocarpa</i>	129
<i>Pinus albicaulis</i> (timberline)	250
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	38
Sawtooth Valley Peatlands	
<i>Pinus contorta</i> / <i>Vaccinium occidentale</i>	
<i>Scirpus cespitosus</i> - <i>Carex livida</i>	
Scotchman No. 2	
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	1
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Vaccinium scoparium</i> phase	140
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i> , <i>Xerophyllum tenax</i> phase	140
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	145
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	145
Sheep Falls	
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Calamagrostis rubescens</i> phase	
<i>Artemisia tridentata</i> vaseyana- <i>Symphoricarpos oreophilus</i> / <i>Festuca idahoensis</i>	
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i> , <i>Calamagrostis rubescens</i> phase	
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i> , <i>Calamagrostis rubescens</i> phase	
Sheep Mountain	
<i>Calamagrostis purpurescens</i>	156
<i>Carex elynoides</i> / <i>Lupinus argenteus</i>	16
<i>Carex elynoides</i> / <i>Oxytropis sericea</i>	6
<i>Carex rupestris</i>	106
<i>Dryas octopetala</i> / <i>Carex rupestris</i>	2
<i>Leucopoa kingii</i> - <i>Carex elynoides</i>	3
<i>Leucopoa kingii</i> / <i>Phlox pulvinata</i>	4
<i>Pinus albicaulis</i> (timberline)	156
<i>Salix nivalis</i>	2

Cont'd.

Appendix D. (Cont'd.)

	Acres
Smiley Mountain	
<i>Agropyron scribneri</i>	50
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	280
<i>Carex albonigra</i>	116
<i>Carex elynoides/Oxytropis sericea</i>	116
<i>Carex rupestris</i>	116
<i>Deschampsia cespitosa</i>	50
<i>Festuca idahoensis</i> (alpine)	50
<i>Ivesia gordonii-Arenaria obtusiloba</i>	142
<i>Ivesia gordonii-Eriogonum caespitosum</i>	142
<i>Phlox pulvinata/Poa epilis</i>	142
<i>Pinus albicaulis</i> (timberline)	240
<i>Pinus albicaulis-Abies lasiocarpa</i>	140
<i>Poa epilis</i>	50
<i>Potentilla diversifolia-Arenaria obtusiloba</i>	142
Smith Creek	
<i>Abies lasiocarpa/Calamagrostis canadensis</i> , <i>Calamagrostis canadensis</i> phase	83
<i>Abies lasiocarpa/Calamagrostis canadensis</i> , <i>Ligusticum canbyi</i> phase	83
<i>Abies lasiocarpa/Calamagrostis canadensis</i> , <i>Vaccinium caespitosum</i> phase	83
<i>Abies lasiocarpa/Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	124
<i>Abies lasiocarpa/Clintonia uniflora</i> , <i>Xerophyllum tenax</i> phase	124
<i>Abies lasiocarpa/Rhododendron albiflorum</i>	249
<i>Abies lasiocarpa/Streptopus amplexifolius</i> , <i>Menziesia ferruginea</i> phase	249
<i>Carex scopulorum</i>	27
<i>Eriophorum polystachion</i>	27
Poor fen	
Valley peatland pond	
Sneakfoot Meadows	
<i>Abies lasiocarpa/Ledum glandulosum</i>	104
<i>Abies lasiocarpa/Menziesia ferruginea</i> , <i>Vaccinium scoparium</i> phase	722
<i>Abies lasiocarpa/Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	722
<i>Calamagrostis canadensis</i>	104
<i>Carex aquatilis</i>	104
<i>Carex utriculata</i>	104
<i>Pinus contorta/Vaccinium occidentale</i>	104
Snowy Top	
<i>Abies lasiocarpa/Luzula hitchcockii</i>	75
<i>Abies lasiocarpa/Rhododendron albiflorum</i>	285
<i>Abies lasiocarpa/Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	38
<i>Abies lasiocarpa/Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	38
<i>Festuca viridula</i>	120
<i>Pinus albicaulis-Abies lasiocarpa</i>	17

Cont'd.

Appendix D. (Cont'd.)

	Acres
Soldier Lakes	
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	5
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	15
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	2
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	3
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i>	50
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	45
Spion Kop	
<i>Abies grandis</i> / <i>Clintonia uniflora</i>	67
<i>Phalaris arundinacea</i>	15
<i>Populus trichocarpa</i> / <i>Cornus stolonifera</i>	85
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i>	67
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	67
Square Mountain Creek	
<i>Abies lasiocarpa</i> / <i>Calamagrostis canadensis</i> , <i>Calamagrostis canadensis</i> phase	50
<i>Abies lasiocarpa</i> / <i>Calamagrostis rubescens</i>	20
<i>Abies lasiocarpa</i> / <i>Carex geyeri</i>	10
<i>Abies lasiocarpa</i> / <i>Ledum glandulosum</i>	50
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	30
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	30
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	67
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	67
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	67
<i>Calamagrostis canadensis</i>	20
<i>Carex nigricans</i>	2
<i>Carex scopulorum</i>	5
<i>Juncus parryi</i>	
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	30
St. Charles Creek	
<i>Abies lasiocarpa</i> / <i>Osmorhiza chilensis</i> , <i>Pachistima myrsinites</i> phase	10
<i>Artemisia nova</i> / <i>Agropyron spicatum</i>	40
<i>Artemisia tridentata</i> vaseyana- <i>Symphoricarpos oreophilus</i> / <i>Agropyron spicatum</i>	90
<i>Cercocarpus ledifolius</i> / <i>Agropyron spicatum</i>	50
<i>Cercocarpus ledifolius</i> / <i>Leucopoa kingii</i>	110
<i>Populus tremuloides</i> / <i>Amelanchier alnifolia</i> - <i>Symphoricarpos oreophilus</i> / <i>Calamagrostis rubescens</i>	80
<i>Pseudotsuga menziesii</i> / <i>Berberis repens</i>	5
<i>Pseudotsuga menziesii</i> / <i>Cercocarpus ledifolius</i>	20
<i>Pseudotsuga menziesii</i> / <i>Osmorhiza chilensis</i>	5
Steep Lakes	
<i>Abies lasiocarpa</i> / <i>Clintonia uniflora</i>	40
<i>Abies lasiocarpa</i> / <i>Luzula hitchcockii</i>	5
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	167
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	80
<i>Alnus sinuata</i>	30
<i>Tsuga mertensiana</i> / <i>Luzula hitchcockii</i>	5
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i>	120
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i>	5

Cont'd.

Appendix D. (Cont'd.)

	Acres
Surprise Valley	
<i>Abies lasiocarpa</i> / <i>Juniperus communis</i>	200
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	5
<i>Pinus albicaulis</i> (timberline)	200
<i>Pinus albicaulis</i> - <i>Abies lasiocarpa</i>	15
<i>Pinus flexilis</i> (timberline)	10
Targhee Creek	
<i>Abies lasiocarpa</i> / <i>Arnica cordifolia</i>	110
<i>Abies lasiocarpa</i> / <i>Ribes montigenum</i>	40
<i>Abies lasiocarpa</i> / <i>Thalictrum occidentale</i>	300
<i>Abies lasiocarpa</i> / <i>Vaccinium globulare</i> , <i>Vaccinium globulare</i> phase	60
<i>Abies lasiocarpa</i> / <i>Vaccinium scoparium</i> , <i>Pinus albicaulis</i> phase	300
<i>Artemisia tridentata</i> vaseyana/ <i>Festuca idahoensis</i>	100
<i>Pinus albicaulis</i> / <i>Vaccinium scoparium</i>	300
Tepee Creek	
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	20
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	181
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	181
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i>	363
Therault Lake	
<i>Carex aquatilis</i>	2
<i>Carex utriculata</i>	2
<i>Tsuga mertensiana</i> / <i>Luzula hitchcockii</i>	10
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i> , <i>Luzula hitchcockii</i> phase	38
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i> , <i>Xerophyllum tenax</i> phase	38
<i>Tsuga mertensiana</i> / <i>Streptopus amplexifolius</i> , <i>Menziesia ferruginea</i> phase	2
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	10
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Xerophyllum tenax</i> phase	10
Three Ponds	
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	30
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Physocarpus malvaceus</i> phase	30
<i>Alnus incana</i> / <i>Athyrium filix-femina</i>	5
<i>Carex lasiocarpa</i>	5
<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i> , <i>Smilacina stellata</i> phase	60
<i>Pseudotsuga menziesii</i> / <i>Vaccinium globulare</i>	3
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i>	2
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i> , <i>Aralia nudicaulis</i> phase	7
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	7
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Aralia nudicaulis</i> phase	14
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	14
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Xerophyllum tenax</i> phase	14
Valley peatland floating mat	1
Valley peatland pond	

Cont'd.

Appendix D. (Cont'd.)

	Acres
Thurmon Creek	
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Festuca idahoensis</i>	25
<i>Carex aquatilis</i>	18
<i>Carex utriculata</i>	18
<i>Pinus contorta/Calamagrostis rubescens</i>	42
<i>Pinus contorta/Spiraea betulifolia</i>	42
<i>Pinus contorta/Vaccinium scoparium</i>	42
<i>Populus tremuloides/Amelanchier alnifolia-</i>	30
<i>Symphoricarpos oreophilus/Calamagrostis rubescens</i>	
<i>Populus tremuloides/Symphoricarpos oreophilus/Calamagrostis rubescens</i>	30
<i>Prunus virginiana/Artemisia tridentata vaseyana-Symphoricarpos oreophilus</i>	25
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	30
<i>Pseudotsuga menziesii/Spiraea betulifolia, Calamagrostis rubescens phase</i>	30
Trapper Creek	
<i>Artemisia arbuscula arbuscula/Poa secunda</i>	73
<i>Artemisia arbuscula thermopola/Festuca idahoensis</i>	73
<i>Artemisia nova/Poa secunda</i>	9
<i>Juniperus osteosperma/Artemisia arbuscula arbuscula/Festuca idahoensis</i>	118
<i>Juniperus osteosperma/Artemisia nova/Poa secunda</i>	118
<i>Juniperus osteosperma/Artemisia tridentata vaseyana/Festuca idahoensis</i>	118
Trinity Mountain	
<i>Abies lasiocarpa/Carex geyeri</i>	32
<i>Abies lasiocarpa/Luzula hitchcockii, Luzula hitchcockii phase</i>	32
<i>Abies lasiocarpa/Vaccinium scoparium, Vaccinium scoparium phase</i>	32
<i>Caltha leptosepala</i>	10
<i>Pinus albicaulis-Abies lasiocarpa</i>	60
Upper Fishhook	
<i>Abies grandis/Clintonia uniflora</i>	10
<i>Thuja plicata/Asarum caudatum</i>	37
<i>Thuja plicata/Athyrium filix-femina</i>	37
<i>Thuja plicata/Clintonia uniflora</i>	210
<i>Thuja plicata/Gymnocarpium dryopteris</i>	37
Upper Newsome Creek	
<i>Abies grandis/Asarum caudatum, Asarum caudatum phase</i>	387
<i>Abies grandis/Asarum caudatum, Menziesia ferruginea phase</i>	387
<i>Abies grandis/Senecia triangularis</i>	20
<i>Abies grandis/Taxus brevifolia/Asarum caudatum</i>	387
<i>Alnus sinuata/Montia cordifolia</i>	20

Cont'd.

Appendix D. (Cont'd.)

	Acres
Upper Priest River	
<i>Alnus incana</i> / <i>Athyrium filix-femina</i>	95
<i>Alnus incana</i> / <i>Carex utriculata</i>	3
<i>Alnus incana</i> /Mesic forb	2
<i>Alnus incana</i> / <i>Spiraea douglasii</i>	40
<i>Carex utriculata</i>	9
<i>Carex vesicaria</i>	2
<i>Cornus stolonifera</i>	36
<i>Populus trichocarpa</i> / <i>Alnus incana</i>	3
<i>Salix bebbiana</i>	2
<i>Spiraea douglasii</i>	14
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Adiantum pedatum</i> phase	224
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Athyrium filix-femina</i> phase	213
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	254
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Aralia nudicaulis</i> phase	18
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	314
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	60
Upper Shoshone Creek	
<i>Abies grandis</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	125
<i>Abies lasiocarpa</i> / <i>Menziesia ferruginea</i>	185
<i>Abies lasiocarpa</i> / <i>Xerophyllum tenax</i>	185
<i>Festuca viridula</i>	70
<i>Thuja plicata</i> / <i>Athyrium filix-femina</i> , <i>Athyrium filix-femina</i> phase	56
<i>Thuja plicata</i> / <i>Oplopanax horridum</i>	56
<i>Tsuga heterophylla</i> / <i>Asarum caudatum</i> , <i>Asarum caudatum</i> phase	56
<i>Tsuga heterophylla</i> / <i>Clintonia uniflora</i> , <i>Clintonia uniflora</i> phase	56
<i>Tsuga heterophylla</i> / <i>Gymnocarpium dryopteris</i>	56
<i>Tsuga mertensiana</i> / <i>Menziesia ferruginea</i> , <i>Luzula hitchcockii</i> phase	250
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Luzula hitchcockii</i> phase	83
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium scoparium</i> phase	83
<i>Tsuga mertensiana</i> / <i>Xerophyllum tenax</i> , <i>Xerophyllum tenax</i> phase	83
Warm Springs Creek	
<i>Abies grandis</i> / <i>Linnaea borealis</i> , <i>Xerophyllum tenax</i> phase	25
<i>Abies grandis</i> / <i>Physocarpus malvaceus</i> , <i>Physocarpus malvaceus</i> phase	55
<i>Abies grandis</i> / <i>Senecia triangularis</i>	25
<i>Abies grandis</i> / <i>Spiraea betulifolia</i>	55
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Asarum caudatum</i>	75
<i>Abies grandis</i> / <i>Taxus brevifolia</i> / <i>Clintonia uniflora</i>	55
<i>Abies grandis</i> / <i>Xerophyllum tenax</i>	27
<i>Abies grandis</i> / <i>Xerophyllum tenax</i> , <i>Vaccinium globulare</i> phase	27
<i>Pseudotsuga menziesii</i> / <i>Agropyron spicatum</i>	25
<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i> , <i>Calamagrostis rubescens</i> phase	25
<i>Pseudotsuga menziesii</i> / <i>Festuca idahoensis</i>	55
<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	55
Thermal springs aquatic community	
<i>Thuja plicata</i> / <i>Clintonia uniflora</i> , <i>Taxus brevifolia</i> phase	25

Cont'd.

Appendix D. (Cont'd.)

	Acres
Webber Creek	
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	250
<i>Picea engelmannii/Arnica cordifolia</i>	200
<i>Picea engelmannii/Hypnum revolutum</i>	150
<i>Picea engelmannii/Juniperus communis</i>	100
<i>Picea engelmannii/Ribes montigenum</i>	50
<i>Pinus albicaulis/Festuca idahoensis</i>	325
<i>Pinus albicaulis/Juniperus communis</i>	150
<i>Pseudotsuga menziesii/Arnica cordifolia, Arnica cordifolia phase</i>	60
<i>Pseudotsuga menziesii/Arnica cordifolia, Astragalus miser phase</i>	40
<i>Pseudotsuga menziesii/Festuca idahoensis, Festuca idahoensis phase</i>	120
<i>Pseudotsuga menziesii/Juniperus communis</i>	90
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	50
West Fork Mink Creek	
<i>Artemisia nova/Agropyron spicatum</i>	70
<i>Artemisia nova/Poa secunda</i>	70
<i>Artemisia tridentata tridentata/Elymus cinereus</i>	40
<i>Juniperus osteosperma/Artemisia arbuscula arbuscula/Agropyron spicatum</i>	15
<i>Populus tremuloides-Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	130
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/ Calamagrostis rubescens</i>	115
<i>Pseudotsuga menziesii/Calamagrostis rubescens, Pachistima myrsinites phase</i>	160
<i>Purshia tridentata/Agropyron spicatum</i>	40
Willow Creek	
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	105
<i>Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/ Calamagrostis rubescens</i>	100
<i>Populus tremuloides/Symphoricarpos oreophilus/Calamagrostis rubescens</i>	80
<i>Pseudotsuga menziesii/Acer glabrum</i>	80
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	30
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	60
<i>Pseudotsuga menziesii/Spiraea betulifolia, Calamagrostis rubescens phase</i>	135
<i>Pseudotsuga menziesii/Spiraea betulifolia, Spiraea betulifolia phase</i>	135
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	100

Appendix E. Natural Areas that encompass plant community element occurrences, which meet minimum criteria, listed for each plant association or community type with the size of the occurrence.

	Acres
<i>Abies grandis/Acer glabrum</i>	
Cuddy Mountain (M332G)	10
Dry Buck (M332A)	699
Little Granite Creek (M332G)	250
<i>Abies grandis/Adiantum pedatum</i>	
No Business Creek (M332A)	5
<i>Abies grandis/Asarum caudatum</i>	
Aquarius (M333D)	266
Binarch Creek (M333A)	40
Bull Run Creek (M333D)	40
No Business Creek (M332A)	50
Upper Newsome Creek (M332A)	774
<i>Abies grandis/Clintonia uniflora</i>	
Aquarius (M333D)	479
Binarch Creek (M333A)	20
Bull Run Creek (M333D)	60
Chateau Falls (M333D)	25
Elk Creek (M332A)	1
Lebeau (M333B)	200
Little Granite Creek (M332G)	60
Lochsa (M332A)	455
Lower Ross Creek (M333B)	49
No Business Creek (M332A)	501
O'Hara Creek (M332A)	1473
Pony Creek (M332G)	350
Spion Kop (M333D)	67
Three Ponds (M333A)	60
Upper Fishhook (M333D)	10
Upper Shoshone Creek (M333D)	125
<i>Abies grandis/Coptis occidentalis</i>	
No Business Creek (M332A)	90
<i>Abies grandis/Linnaea borealis</i>	
Lebeau (M333B)	200
No Business Creek (M332A)	1
Warm Springs Creek (M332A)	25
<i>Abies grandis/Physocarpus malvaceus</i>	
Aquarius (M333D)	266
Bull Run Creek (M333D)	40
Chateau Falls (M333D)	40
Elk Creek (M332A)	210
No Business Creek (M332A)	140
Warm Springs Creek (M332A)	55
<i>Abies grandis/Spiraea betulifolia</i>	
Aquarius (M333D)	106
Bear Creek (Payette) (M332G)	43
Elk Creek (M332A)	350
Garden Creek Preserve (M332G)	2
Pony Creek (M332G)	130
Warm Springs Creek (M332A)	55
<i>Abies grandis/Taxus brevifolia/Asarum caudatum</i>	
No Business Creek (M332A)	50
Upper Newsome Creek (M332A)	387
Warm Springs Creek (M332A)	75

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Abies grandis/Taxus brevifolia/Clintonia uniflora</i>	
Warm Springs Creek (M332A)	55
<i>Abies grandis/Vaccinium globulare</i>	
Bear Creek (Payette) (M332G)	298
Circle End Creek (M332A)	73
Dutch Creek (M332A)	58
Eggers Creek (M332A)	31
Elk Creek (M332A)	700
Little Granite Creek (M332G)	200
Phoebe Meadows (M332A)	17
Pony Creek (M332G)	70
<i>Abies grandis/Xerophyllum tenax</i>	
Barktable Ridge (M333D)	10
Elk Creek (M332A)	140
No Business Creek (M332A)	10
O'Hara Creek (M332A)	130
Warm Springs Creek (M332A)	54
<i>Abies lasiocarpa/Acer glabrum</i>	
Burton Canyon (M331D)	53
Cuddy Mountain (M332G)	151
Gros Ventre (M331D)	607
Horse Creek (M331D)	75
Roaring River (M332A)	40
Swift Creek (M331D)	700
<i>Abies lasiocarpa/Actaea rubra</i>	
Gros Ventre (M331D)	28
<i>Abies lasiocarpa/Arnica cordifolia</i>	
Basin Gulch (M332F)	55
Gros Ventre (M331D)	5
Lava Butte (M332A)	5
Mahogany Creek (M332E)	155
Targhee Creek (M332E)	110
<i>Abies lasiocarpa/Arnica latifolia</i>	
Gros Ventre (M331D)	451
<i>Abies lasiocarpa/Berberis repens</i>	
Mollens Hollow (M331D)	7
Pole Canyon (342B-E)	1
T. W. Daniels (M331D)	26
<i>Abies lasiocarpa/Calamagrostis canadensis</i>	
Back Creek (M332A)	26
Bear Valley Creek (M332E)	8
Bruin Mountain (M332A)	15
Chilcoot Peak (M332F)	50
Fish Lake (M332A)	5
Lebeau (M333B)	200
Needles (M332A)	109
Pete Creek Meadows (M333B)	20
Phoebe Meadows (M332A)	10
Pony Meadows (M332A)	50
Salmon Mountain (M332A)	33
Smith Creek (M333A)	249
Square Mountain Creek (M332A)	50

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Abies lasiocarpa/Calamagrostis rubescens</i>	
Back Creek (M332A)	150
Bear Valley Creek (M332E)	416
Burton Canyon (M331D)	53
Chilcoot Peak (M332F)	190
Frog Meadows (M332A)	66
Gros Ventre (M331D)	12
Horse Creek (M331D)	75
Kenney Creek (M332E)	250
Skull-Odell (M332E)	393
Square Mountain Creek (M332A)	20
<i>Abies lasiocarpa/Caltha biflora</i>	
Back Creek (M332A)	50
Chilcoot Peak (M332F)	10
Moose Meadow Creek (M332A)	200
<i>Abies lasiocarpa/Carex geyeri</i>	
Back Creek (M332A)	200
Basin Gulch (M332F)	40
Belvidere Creek (M332F)	254
Cache Creek Lakes (M332F)	83
Chilcoot Peak (M332F)	285
Circle End Creek (M332A)	44
Davis Canyon (M332E)	20
Dry Gulch - Forge Creek (M332A)	175
Eggers Creek (M332A)	7
Frog Meadows (M332A)	115
Mystery Lake (M332A)	30
Needles (M332A)	109
Pole Canyon (342B-E)	1
Redfish Lake Moraine (M332A)	160
Roaring River (M332A)	40
Soldier Lakes (M332A)	5
Square Mountain Creek (M332A)	10
Trinity Mountain (M332A)	32
<i>Abies lasiocarpa/Clintonia uniflora</i>	
Canyon Creek (M333A)	40
Hunt Girl Creek (M333B)	406
Lebeau (M333B)	500
Little Granite Creek (M332G)	100
No Business Creek (M332A)	25
Norman-Parmenter (M333B)	200
O'Hara Creek (M332A)	215
Pete Creek Meadows (M333B)	25
Smith Creek (M333A)	248
Steep Lakes (M333D)	40
Wolf-Weigel (M333B)	30
<i>Abies lasiocarpa/Juniperus communis</i>	
Bear Valley Creek (M332E)	18
Cache Creek Lakes (M332F)	83
Mahogany Creek (M332E)	155
Mystery Lake (M332A)	30
Soldier Lakes (M332A)	15
Surprise Valley (M332F)	200

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Abies lasiocarpa/Ledum glandulosum</i>	
Allan Mountain (M332E)	5
Back Creek (M332A)	13
Bear Valley Creek (M332E)	8
Belvidere Creek (M332F)	254
Bruin Mountain (M332A)	15
Cache Creek Lakes (M332F)	83
Chilcoot Peak (M332F)	20
Dome Lake (M332A)	30
Iron Bog (M332F)	22
Moose Meadow Creek (M332A)	15
Mystery Lake (M332A)	30
Phoebe Meadows (M332A)	5
Pony Meadows (M332A)	1
Redfish Lake Moraine (M332A)	160
Sneakfoot Meadows (M332A)	104
Square Mountain Creek (M332A)	50
<i>Abies lasiocarpa/Linnaea borealis</i>	
Bear Valley Creek (M332E)	31
Lebeau (M333B)	500
Pete Creek Meadows (M333B)	20
Skull-Odell (M332E)	8
Wolf-Weigel (M333B)	20
<i>Abies lasiocarpa/Luzula hitchcockii</i>	
Back Creek (M332A)	30
Belvidere Creek (M332F)	254
Chilcoot Peak (M332F)	65
Fenn Mountain (M332A)	17
Hunt Girl Creek (M333B)	248
Little Granite Creek (M332G)	40
Needles (M332A)	110
Pony Creek (M332G)	130
Salmon Mountain (M332A)	769
Scotchman No. 2 (M333B)	1
Snowy Top (M333A)	75
Square Mountain Creek (M332A)	30
Steep Lakes (M333D)	5
Trinity Mountain (M332A)	32
<i>Abies lasiocarpa/Menziesia ferruginea</i>	
Allan Mountain (M332E)	100
Back Creek (M332A)	15
Bald Mountain (M333D)	150
Belvidere Creek (M332F)	254
Bruin Mountain (M332A)	40
Canyon Creek (M333A)	300
Chilcoot Peak (M332F)	30
Davis Canyon (M332E)	40
Dome Lake (M332A)	50
Fish Lake (M332A)	5
Hunt Girl Creek (M333B)	424
Lebeau (M333B)	400
Little Granite Creek (M332G)	420
Lower Ross Creek (M333B)	36
Moose Meadow Creek (M332A)	200
Needles (M332A)	109
No Business Creek (M332A)	110

Cont'd.

Appendix E. (Cont'd.)

	Acres
O'Hara Creek (M332A)	215
Phoebe Meadows (M332A)	15
Pony Meadows (M332A)	185
Redfish Lake Moraine (M332A)	160
Salmo (M333A)	695
Scotchman No. 2 (M333B)	280
Skull-Odell (M332E)	5
Sneakfoot Meadows (M332A)	722
Square Mountain Creek (M332A)	30
Steep Lakes (M333D)	167
Upper Shoshone Creek (M333D)	185
<i>Abies lasiocarpa/Osmorhiza chilensis</i>	
Burton Canyon (M331D)	53
Horse Creek (M331D)	20
Pole Canyon (342B-E)	1
St. Charles Creek (M331D)	10
Swift Creek (M331D)	8
<i>Abies lasiocarpa/Pedicularis racemosa</i>	
T. W. Daniels (M331D)	275
<i>Abies lasiocarpa/Physocarpus malvaceus</i>	
Afton Front (M331D)	155
Burns Canyon (M331D)	160
Horse Creek (M331D)	20
<i>Abies lasiocarpa/Rhododendron albiflorum</i>	
Bunchgrass Meadows (M333A)	261
Smith Creek (M333A)	249
Snowy Top (M333A)	285
<i>Abies lasiocarpa/Ribes montigenum</i>	
Basin Gulch (M332F)	305
Cave Mountain (M332E)	50
Gros Ventre (M331D)	252
Mahogany Creek (M332E)	155
Mount Harrison (342B-E)	45
Swift Creek (M331D)	742
Targhee Creek (M332E)	40
<i>Abies lasiocarpa/Spiraea betulifolia</i>	
Roaring River (M332A)	40
<i>Abies lasiocarpa/Streptopus amplexifolius</i>	
Back Creek (M332A)	40
Bear Valley Creek (M332E)	60
Bruin Mountain (M332A)	1
Canyon Creek (M333A)	20
Chilcoot Peak (M332F)	33
Fenn Mountain (M332A)	17
Fish Lake (M332A)	75
Hunt Girl Creek (M333B)	22
Moose Meadow Creek (M332A)	1
Needles (M332A)	109
Smith Creek (M333A)	249
<i>Abies lasiocarpa/Symphoricarpos albus</i>	
Horse Creek (M331D)	5
<i>Abies lasiocarpa/Thalictrum occidentale</i>	
Pole Canyon (342B-E)	1
Targhee Creek (M332E)	300

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Abies lasiocarpa/Vaccinium caespitosum</i>	
Back Creek (M332A)	7
Lebeau (M333B)	200
Phoebe Meadows (M332A)	15
<i>Abies lasiocarpa/Vaccinium globulare</i>	
Back Creek (M332A)	30
Belvidere Creek (M332F)	254
Bruin Mountain (M332A)	50
Burns Canyon (M331D)	10
Dome Lake (M332A)	100
Eggers Creek (M332A)	48
Gros Ventre (M331D)	434
Horse Creek (M331D)	130
Lava Butte (M332A)	15
Little Granite Creek (M332G)	100
Needles (M332A)	110
Phoebe Meadows (M332A)	15
Pony Creek (M332G)	150
Pony Meadows (M332A)	40
Swift Creek (M331D)	429
Targhee Creek (M332E)	60
<i>Abies lasiocarpa/Vaccinium scoparium</i>	
Back Creek (M332A)	300
Bear Valley Creek (M332E)	25
Belvidere Creek (M332F)	254
Bruin Mountain (M332A)	55
Cache Creek Lakes (M332F)	83
Chilcoot Peak (M332F)	285
Cliff Lake (M332E)	130
Dome Lake (M332A)	275
Dry Gulch - Forge Creek (M332A)	175
Frog Meadows (M332A)	116
Gros Ventre (M331D)	318
Horse Creek (M331D)	175
Kenney Creek (M332E)	250
Lava Butte (M332A)	55
Little Granite Creek (M332G)	600
Mill Lake (M332E)	160
Moose Creek Plateau (M331A)	340
Mystery Lake (M332A)	30
Needles (M332A)	110
Phoebe Meadows (M332A)	15
Pony Creek (M332G)	20
Redfish Lake Moraine (M332A)	160
Skull-Odell (M332E)	1187
Soldier Lakes (M332A)	50
Swift Creek (M331D)	129
Targhee Creek (M332E)	300
Trinity Mountain (M332A)	32
<i>Abies lasiocarpa/Xerophyllum tenax</i>	
Allan Mountain (M332E)	900
Belvidere Creek (M332F)	254
Bruin Mountain (M332A)	40
Bunchgrass Meadows (M333A)	82
Canyon Creek (M333A)	150
Davis Canyon (M332E)	300

Cont'd.

Appendix E. (Cont'd.)

	Acres
Dome Lake (M332A)	210
Elk Creek (M332A)	700
Fish Lake (M332A)	570
Gunbarrel Creek (M332A)	134
Hunt Girl Creek (M333B)	248
Lava Butte (M332A)	65
Lebeau (M333B)	300
Moose Meadow Creek (M332A)	540
Needles (M332A)	55
No Business Creek (M332A)	105
Norman-Parmenter (M333B)	100
O'Hara Creek (M332A)	420
Pony Creek (M332G)	20
Pony Meadows (M332A)	1060
Rhodes Peak (M333D)	85
Roundtop Mountain (M333A)	150
Salmo (M333A)	139
Scotchman No. 2 (M333B)	290
Sneakfoot Meadows (M332A)	722
Snowy Top (M333A)	75
Square Mountain Creek (M332A)	201
Steep Lakes (M333D)	80
Upper Shoshone Creek (M333D)	185
<i>Acer grandidentatum/Berberis repens</i>	
Gibson Jack Creek (M331D)	100
<i>Acer grandidentatum/Calamagrostis rubescens</i>	
Burns Canyon (M331D)	50
Robbers Roost Creek (M331D)	200
<i>Acer grandidentatum/Juniperus scopulorum</i>	
Petticoat Peak (M331D)	437
<i>Acer grandidentatum/Osmorhiza chilensis</i>	
Burton Canyon (M331D)	43
Cheatbeck Canyon (M331D)	50
<i>Acer negundo/Osmorhiza chilensis</i>	
Cheatbeck Canyon (M331D)	50
<i>Agropyron scribneri</i>	
Smiley Mountain (M332F)	50
<i>Agropyron spicatum/Eriogonum heracleoides</i>	
Garden Creek Preserve (M332G)	25
<i>Agropyron spicatum/Opuntia polyacantha</i>	
Garden Creek Preserve (M332G)	618
<i>Agropyron spicatum-Poa secunda</i>	
Garden Creek Preserve (M332G)	484
Gunbarrel Creek (M332A)	85
Little Granite Creek (M332G)	250
Wapshilla Ridge (M332G)	28
<i>Agropyron spicatum-Poa secunda, scabland</i>	
Wapshilla Ridge (M332G)	4
<i>Agropyron spicatum-Poa secunda/Balsamorhiza sagittata</i>	
Cuddy Mountain (M332G)	61
Elk Creek (M332A)	280
Emery Creek (M332G)	241
Lost Basin Grassland (M332G)	14
Monumental Creek (M332A)	156
Rocky Comfort Flat (M332G)	209

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Alnus incana-Betula occidentalis/Salix exigua</i>	
Allison Creek Island (M332E)	13
<i>Alnus incana/Athyrium filix-femina</i>	
Upper Priest River (M333A)	95
<i>Alnus incana/Carex utriculata</i>	
Potholes (M333A)	20
Upper Priest River (M333A)	3
<i>Alnus incana/Cornus stolonifera</i>	
Horse Creek (M331D)	10
<i>Alnus incana/Lysichitum americanum</i>	
Potholes (M333A)	15
<i>Alnus incana/mesic forb</i>	
Upper Priest River (M333A)	2
<i>Alnus incana/Ribes hudsonianum</i>	
Burns Canyon (M331D)	5
<i>Alnus incana/Spiraea douglasii</i>	
Upper Priest River (M333A)	40
<i>Alnus sinuata</i>	
Belvidere Creek (M332F)	1
Bruin Mountain (M332A)	120
Pony Creek (M332G)	160
Redfish Lake Moraine (M332A)	10
Steep Lakes (M333D)	30
<i>Alnus sinuata/Montia cordifolia</i>	
Upper Newsome Creek (M332A)	20
<i>Artemisia arbuscula arbuscula/Agropyron spicatum</i>	
Gunsight Peak (M331D)	50
<i>Artemisia arbuscula arbuscula/Poa secunda</i>	
Trapper Creek (342B-E)	73
<i>Artemisia arbuscula thermopola/Festuca idahoensis</i>	
Trapper Creek (342B-E)	73
<i>Artemisia ludoviciana</i>	
Swamp Hollow (M331A)	6
<i>Artemisia nova/Agropyron spicatum</i>	
Gibson Jack Creek (M331D)	600
Jim Sage Canyon (342B-E)	150
Middle Canyon (M332E)	660
Pecks Canyon (M332F)	50
St. Charles Creek (M331D)	40
West Fork Mink Creek (M331D)	70
<i>Artemisia nova/Elymus ambiguus salmonis</i>	
Middle Canyon (M332E)	15
<i>Artemisia nova/Festuca idahoensis</i>	
Iron Bog (M332F)	25
<i>Artemisia nova/Poa secunda</i>	
Trapper Creek (342B-E)	9
West Fork Mink Creek (M331D)	70
<i>Artemisia rigida/Poa secunda</i>	
Emery Creek (M332G)	22
Rocky Comfort Flat (M332G)	173
Wapshilla Ridge (M332G)	1

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Artemisia tridentata spiciformis/Carex geyeri</i>	
Pole Canyon (342B-E)	14
<i>Artemisia tridentata tridentata/Agropyron spicatum</i>	
Colson Creek (M332A)	11
Dry Gulch - Forge Creek (M332A)	300
<i>Artemisia tridentata tridentata/Elymus cinereus</i>	
West Fork Mink Creek (M331D)	40
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Agropyron spicatum</i>	
Afton Front (M331D)	150
Burton Canyon (M331D)	40
Elk Creek Exclosure (M332A)	28
Gibson Jack Creek (M331D)	470
Pole Canyon (342B-E)	14
Robbers Roost Creek (M331D)	75
St. Charles Creek (M331D)	90
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Bromus carinatus</i>	
Mount Harrison (342B-E)	20
<i>Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Festuca idahoensis</i>	
Thurmon Creek (M331A)	25
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	
Bannock Creek (M332A)	44
Bear Creek (Boise) (M332A)	100
Burns Canyon (M331D)	20
Burton Canyon (M331D)	40
Cattle Gulch (M332E)	40
Copper Mountain (M332E)	105
Cuddy Mountain (M332G)	35
Dry Gulch - Forge Creek (M332A)	300
Elk Creek Exclosure (M332A)	79
Little Granite Creek (M332G)	80
Meade Peak (M331D)	40
Monumental Creek (M332A)	5
Pole Canyon (342B-E)	14
Pole Creek Exclosure (M332A)	11
Raspberry Gulch (M332A)	90
Roaring River (M332A)	22
Willow Creek (M331A)	105
<i>Artemisia tridentata vaseyana/Bromus carinatus</i>	
Burton Canyon (M331D)	40
Gunsight Peak (M331D)	30
Pole Canyon (342B-E)	14
<i>Artemisia tridentata vaseyana/Carex geyeri</i>	
Council Mountain (M332G)	15
<i>Artemisia tridentata vaseyana/Elymus cinereus</i>	
Robbers Roost Creek (M331D)	10
<i>Artemisia tridentata vaseyana/Festuca idahoensis</i>	
Bannock Creek (M332A)	44
Bear Creek (Boise) (M332A)	200
Belvidere Creek (M332F)	200
Cottonwood Creek (M332E)	54
Council Mountain (M332G)	21

Cont'd.

Appendix E. (Cont'd.)

	Acres
Dry Gulch - Forge Creek (M332A)	300
Horse Prairie (M332E)	40
Iron Bog (M332F)	94
Little Granite Creek (M332G)	80
Mahogany Creek (M332E)	180
Meadow Canyon (M332E)	25
Mount Harrison (342B-E)	120
Pole Creek Exclosure (M332A)	11
Pony Creek (M332G)	250
Raspberry Gulch (M332A)	6
Rocky Comfort Flat (M332G)	41
Smiley Mountain (M332F)	280
Targhee Creek (M332E)	100
Webber Creek (M332E)	250
<i>Artemisia tridentata vaseyana/Leucopoa kingii</i>	
Meade Peak (M331D)	95
<i>Artemisia tripartita/Agropyron spicatum</i>	
Colson Creek (M332A)	8
<i>Artemisia tripartita/Festuca idahoensis</i>	
Colson Creek (M332A)	9
Horse Prairie (M332E)	160
<i>Atriplex confertifolia/Oryzopsis hymenoides</i>	
Middle Canyon (M332E)	15
<i>Betula glandulosa/Carex utriculata</i>	
Kaniksu Marsh (M333A)	67
Lebeau (M333B)	20
<i>Betula occidentalis/Cornus stolonifera</i>	
Allison Creek Island (M332E)	13
<i>Calamagrostis canadensis</i>	
Fish Lake (M332A)	8
Moose Meadow Creek (M332A)	30
Pete Creek Meadows (M333B)	5
Skull-Odell (M332E)	30
Sneakfoot Meadows (M332A)	104
Square Mountain Creek (M332A)	20
<i>Calamagrostis purpurescens</i>	
Sheep Mountain (M332E)	156
<i>Caltha leptosepala</i>	
Osborn Mountain (M331D)	14
Trinity Mountain (M332A)	10
<i>Carex albonigra</i>	
Smiley Mountain (M332F)	116
<i>Carex aquatilis</i>	
Basin Creek (M332E)	5
Blackfoot River (M331D)	24
Fenn Mountain (M332A)	7
Skull-Odell (M332E)	40
Sneakfoot Meadows (M332A)	104
Swamp Hollow (M331A)	6
Thurmon Creek (M331A)	18
<i>Carex buxbaumii</i>	
Lucky Dog Creek (M331A)	2

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Carex cusickii</i>	
Kaniksu Marsh (M333A)	1
<i>Carex elynoides/Lupinus argenteus</i>	
Sheep Mountain (M332E)	16
<i>Carex elynoides/Oxytropis sericea</i>	
Sheep Mountain (M332E)	6
Smiley Mountain (M332F)	116
<i>Carex lanuginosa</i>	
Lucky Dog Creek (M331A)	6
<i>Carex lasiocarpa</i>	
Bottle Lake (M333A)	16
Hoskins Lake (M333B)	12
Kaniksu Marsh (M333A)	13
Lebeau (M333B)	20
Pete Creek Meadows (M333B)	25
Three Ponds (M333A)	5
<i>Carex nebraskensis</i>	
East Shore Henrys Lake (M331A)	70
Flat Ranch (M331A)	260
Swamp Hollow (M331A)	3
<i>Carex nigricans</i>	
Rhodes Peak (M333D)	10
Square Mountain Creek (M332A)	2
<i>Carex rupestris</i>	
Sheep Mountain (M332E)	106
Smiley Mountain (M332F)	116
<i>Carex scopulorum</i>	
Rhodes Peak (M333D)	5
Smith Creek (M333A)	27
<i>Carex simulata</i>	
Blackfoot River (M331D)	118
East Shore Henrys Lake (M331A)	50
Flat Ranch (M331A)	25
<i>Carex utriculata</i>	
Basin Creek (M332E)	10
Blackfoot River (M331D)	118
East Shore Henrys Lake (M331A)	200
Fish Lake (M332A)	8
Flat Ranch (M331A)	100
Lebeau (M333B)	20
Lucky Dog Creek (M331A)	12
Moose Meadow Creek (M332A)	30
Oxford Slough (M331D)	90
Pete Creek Meadows (M333B)	5
Sand Creek Ponds (M331A)	18
Skull-Odell (M332E)	30
Sneakfoot Meadows (M332A)	104
Swamp Hollow (M331A)	12
Thurmon Creek (M331A)	18
Upper Priest River (M333A)	9
<i>Carex vesicaria</i>	
Upper Priest River (M333A)	2

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Cercocarpus ledifolius/Agropyron spicatum</i>	
Burton Canyon (M331D)	240
Cattle Gulch (M332E)	200
Dry Gulch - Forge Creek (M332A)	325
Elk Creek (M332A)	140
Emery Creek (M332G)	5
Gunsight Peak (M331D)	150
Little Granite Creek (M332G)	50
Mahogany Creek (M332E)	160
Middle Canyon (M332E)	30
No Business Creek (M332A)	30
Pecks Canyon (M332F)	35
Robbers Roost Creek (M331D)	75
Rocky Comfort Flat (M332G)	199
St. Charles Creek (M331D)	50
<i>Cercocarpus ledifolius/Festuca idahoensis</i>	
Rocky Comfort Flat (M332G)	78
<i>Cercocarpus ledifolius/Leucopoa kingii</i>	
St. Charles Creek (M331D)	110
<i>Cercocarpus ledifolius/Symphoricarpos oreophilus</i>	
Pecks Canyon (M332F)	15
<i>Cornus stolonifera</i>	
Horse Creek (M331D)	2
Upper Priest River (M333A)	36
<i>Cornus stolonifera/Heracleum lanatum</i>	
Burns Canyon (M331D)	5
<i>Crataegus douglasii/Symphoricarpos albus</i>	
Rocky Comfort Flat (M332G)	6
<i>Deschampsia cespitosa</i>	
Blackfoot River (M331D)	472
East Shore Henrys Lake (M331A)	100
Flat Ranch (M331A)	135
Horse Prairie (M332E)	5
Lucky Dog Creek (M331A)	74
Skull-Odell (M332E)	40
Smiley Mountain (M332F)	50
<i>Distichlis stricta stricta</i>	
Oxford Slough (M331D)	18
Swamp Hollow (M331A)	1
<i>Eleocharis acicularis</i>	
Blackfoot River (M331D)	1
<i>Eleocharis palustris (wetland/riparian)</i>	
Blackfoot River (M331D)	24
Flat Ranch (M331A)	25
Moose Meadow Creek (M332A)	2
Sand Creek Ponds (M331A)	18
Swamp Hollow (M331A)	12
<i>Eleocharis pauciflora</i>	
Moose Meadow Creek (M332A)	5
Skull-Odell (M332E)	10
<i>Eriogonum spp.-Physaria oregana</i>	
Garden Creek Preserve (M332G)	9

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Eriophorum polystachion</i>	
Smith Creek (M333A)	27
<i>Festuca idahoensis</i> (alpine)	
Copper Mountain (M332E)	38
Smiley Mountain (M332F)	50
<i>Festuca idahoensis-Agropyron spicatum</i>	
Bull Run Creek (M333D)	20
Cottonwood Creek (M332E)	46
Dry Gulch - Forge Creek (M332A)	300
Emery Creek (M332G)	94
Garden Creek Preserve (M332G)	581
Gunbarrel Creek (M332A)	85
Little Granite Creek (M332G)	250
Lost Basin Grassland (M332G)	14
Meadow Canyon (M332E)	220
No Business Creek (M332A)	30
Rocky Comfort Flat (M332G)	22
Wapshilla Ridge (M332G)	120
<i>Festuca idahoensis-Koeleria cristata</i>	
Emery Creek (M332G)	20
Garden Creek Preserve (M332G)	796
Little Granite Creek (M332G)	150
Lost Basin Grassland (M332G)	14
Wapshilla Ridge (M332G)	92
<i>Festuca viridula</i>	
Bald Mountain (M333D)	35
Canyon Creek (M333A)	17
Roundtop Mountain (M333A)	50
Snowy Top (M333A)	120
Upper Shoshone Creek (M333D)	70
<i>Glossopetalon nevadense/Agropyron spicatum</i>	
Colson Creek (M332A)	35
Elk Creek (M332A)	1
Emery Creek (M332G)	33
Little Granite Creek (M332G)	5
Lost Basin Grassland (M332G)	10
No Business Creek (M332A)	10
<i>Ivesia gordonii-Arenaria obtusiloba</i>	
Smiley Mountain (M332F)	142
<i>Ivesia gordonii-Eriogonum caespitosum</i>	
Smiley Mountain (M332F)	142
<i>Juncus balticus</i>	
Flat Ranch (M331A)	260
Lucky Dog Creek (M331A)	6
Oxford Slough (M331D)	179
Swamp Hollow (M331A)	3
<i>Juncus parryi</i>	
Rhodes Peak (M333D)	5
<i>Juniperus osteosperma/Artemisia arbuscula arbuscula/Agropyron spicatum</i>	
West Fork Mink Creek (M331D)	15
<i>Juniperus osteosperma/Artemisia arbuscula arbuscula/Festuca idahoensis</i>	
Trapper Creek (342B-E)	118

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Juniperus osteosperma/Artemisia nova/Agropyron spicatum</i> Gibson Jack Creek (M331D)	80
<i>Juniperus osteosperma/Artemisia nova/Poa secunda</i> Trapper Creek (342B-E)	118
<i>Juniperus osteosperma/Artemisia tridentata vaseyana/Agropyron spicatum</i> Jim Sage Canyon (342B-E)	300
Robbers Roost Creek (M331D)	3
<i>Juniperus osteosperma/Artemisia tridentata vaseyana/Festuca idahoensis</i> Trapper Creek (342B-E)	118
<i>Larix lyallii-Abies lasiocarpa</i> Allan Mountain (M332E)	80
Grave Peak (M332A)	200
Salmon Mountain (M332A)	129
<i>Leucopoa kingii-Carex elynoides</i> Sheep Mountain (M332E)	3
<i>Leucopoa kingii/Phlox pulvinata</i> Sheep Mountain (M332E)	4
<i>Leucopoa kingii/Achillea millefolium</i> Copper Mountain (M332E)	38
<i>Mertensia ciliata</i> Swift Creek (M331D)	8
<i>Phalaris arundinacea</i> Oxford Slough (M331D)	54
Spion Kop (M333D)	15
<i>Phlox pulvinata/Poa epilis</i> Smiley Mountain (M332F)	142
<i>Physocarpus malvaceus-Symphoricarpos albus</i> Garden Creek Preserve (M332G)	153
Wapshilla Ridge (M332G)	4
<i>Picea engelmannii/Arnica cordifolia</i> Webber Creek (M332E)	200
<i>Picea engelmannii/Calamagrostis canadensis</i> Horse Creek (M331D)	1
<i>Picea engelmannii/Carex disperma</i> Bear Valley Creek (M332E)	33
Kenney Creek (M332E)	250
<i>Picea engelmannii/Cornus stolonifera</i> Gros Ventre (M331D)	28
<i>Picea engelmannii/Galium trifolium</i> Dome Lake (M332A)	30
Gros Ventre (M331D)	28
Swift Creek (M331D)	46
<i>Picea engelmannii/Hypnum revolutum</i> Meadow Canyon (M332E)	575
Webber Creek (M332E)	150
<i>Picea engelmannii/Juniperus communis</i> Mahogany Creek (M332E)	155
Webber Creek (M332E)	100
<i>Picea engelmannii/Ribes montigenum</i> Webber Creek (M332E)	50

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Picea glauca/Carex disperma</i>	
East Shore Henrys Lake (M331A)	5
<i>Picea glauca/Carex utriculata</i>	
East Shore Henrys Lake (M331A)	40
<i>Picea glauca/Equisetum arvense</i>	
East Shore Henrys Lake (M331A)	20
<i>Pinus albicaulis</i> (timberline)	
Davis Canyon (M332E)	80
Salmon Mountain (M332A)	250
Sheep Mountain (M332E)	156
Smiley Mountain (M332F)	240
Surprise Valley (M332F)	200
<i>Pinus albicaulis-Abies lasiocarpa</i>	
Allan Mountain (M332E)	80
Bear Valley Creek (M332E)	193
Belvidere Creek (M332F)	399
Bruin Mountain (M332A)	80
Cache Creek Lakes (M332F)	158
Canyon Creek (M333A)	5
Cave Mountain (M332E)	440
Chilcoot Peak (M332F)	30
Davis Canyon (M332E)	40
Dome Lake (M332A)	5
Elk Creek (M332A)	1
Elkhorn Lake (M332E)	859
Lava Butte (M332A)	20
Little Granite Creek (M332G)	400
Mill Lake (M332E)	100
Mystery Lake (M332A)	61
Needles (M332A)	35
Pony Creek (M332G)	40
Pony Meadows (M332A)	35
Rhodes Peak (M333D)	113
Salmon Mountain (M332A)	386
Smiley Mountain (M332F)	140
Snowy Top (M333A)	17
Soldier Lakes (M332A)	45
Square Mountain Creek (M332A)	30
Surprise Valley (M332F)	15
Trinity Mountain (M332A)	60
<i>Pinus albicaulis/Carex geyeri</i>	
Kenney Creek (M332E)	94
<i>Pinus albicaulis/Carex rossii</i>	
Moose Creek Plateau (M331A)	90
<i>Pinus albicaulis/Festuca idahoensis</i>	
Kenney Creek (M332E)	94
Mahogany Creek (M332E)	73
Webber Creek (M332E)	325
<i>Pinus albicaulis/Juniperus communis</i>	
Kenney Creek (M332E)	94
Mahogany Creek (M332E)	73
Webber Creek (M332E)	150
<i>Pinus albicaulis/Poa nervosa</i>	
Basin Gulch (M332F)	65

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Pinus albicaulis/Vaccinium scoparium</i>	
Elkhorn Lake (M332E)	320
Gros Ventre (M331D)	252
Kenney Creek (M332E)	94
Skull-Odell (M332E)	82
Targhee Creek (M332E)	300
<i>Pinus contorta/Calamagrostis rubescens</i>	
Thurmon Creek (M331A)	42
<i>Pinus contorta/Carex geyeri</i>	
Redfish Lake Moraine (M332A)	236
<i>Pinus contorta/Festuca idahoensis</i>	
Back Creek (M332A)	3
<i>Pinus contorta/Spiraea betulifolia</i>	
Thurmon Creek (M331A)	42
<i>Pinus contorta/Vaccinium occidentale</i>	
Sawtooth Valley Peatlands (M332A)	20
Sneakfoot Meadows (M332A)	104
<i>Pinus contorta/Vaccinium scoparium</i>	
Phoebe Meadows (M332A)	17
Thurmon Creek (M331A)	42
<i>Pinus flexilis (timberline)</i>	
Middle Canyon (M332E)	120
Surprise Valley (M332F)	10
<i>Pinus flexilis/Cercocarpus ledifolius</i>	
Gunsight Peak (M331D)	60
Mahogany Creek (M332E)	73
<i>Pinus flexilis/Festuca idahoensis</i>	
Mahogany Creek (M332E)	73
Meadow Canyon (M332E)	35
<i>Pinus flexilis/Juniperus communis</i>	
Mahogany Creek (M332E)	73
<i>Pinus flexilis/Leucopoa kingii</i>	
Mahogany Creek (M332E)	73
Meade Peak (M331D)	90
<i>Pinus monophylla-Juniperus osteosperma/</i>	
<i>Artemisia tridentata vaseyana/Agropyron spicatum</i>	
Jim Sage Canyon (342B-E)	150
<i>Pinus ponderosa/Agropyron spicatum</i>	
Circle End Creek (M332A)	20
Colson Creek (M332A)	2
Dry Gulch - Forge Creek (M332A)	50
Elk Creek (M332A)	1050
Gunbarrel Creek (M332A)	367
Little Granite Creek (M332G)	250
Monumental Creek (M332A)	116
No Business Creek (M332A)	40
Raspberry Gulch (M332A)	30
<i>Pinus ponderosa/Festuca idahoensis</i>	
Circle End Creek (M332A)	20
Colson Creek (M332A)	5
Gunbarrel Creek (M332A)	367
Little Granite Creek (M332G)	250
Raspberry Gulch (M332A)	10

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Pinus ponderosa/Physocarpus malvaceus</i>	
Elk Creek (M332A)	350
Little Granite Creek (M332G)	50
<i>Pinus ponderosa/Purshia tridentata</i>	
Bannock Creek (M332A)	12
Circle End Creek (M332A)	248
Monumental Creek (M332A)	72
Raspberry Gulch (M332A)	57
<i>Pinus ponderosa/Symphoricarpos albus</i>	
Idler's Rest Site (M333D)	5
Little Granite Creek (M332G)	200
Rocky Comfort Flat (M332G)	6
<i>Pinus ponderosa/Symphoricarpos oreophilus</i>	
Bannock Creek (M332A)	12
Circle End Creek (M332A)	200
Monumental Creek (M332A)	101
Raspberry Gulch (M332A)	58
<i>Poa epilis</i>	
Smiley Mountain (M332F)	50
<i>Populus tremuloides/Amelanchier alnifolia-</i>	
<i>Symphoricarpos oreophilus/Calamagrostis rubescens</i>	
Pole Canyon (342B-E)	10
St. Charles Creek (M331D)	80
Thurmon Creek (M331A)	30
West Fork Mink Creek (M331D)	115
Willow Creek (M331A)	100
<i>Populus tremuloides/Symphoricarpos oreophilus/</i>	
<i>Calamagrostis rubescens</i>	
Thurmon Creek (M331A)	30
Willow Creek (M331A)	80
<i>Populus tremuloides/tall forb</i>	
Gros Ventre (M331D)	33
<i>Populus tremuloides/Thalictrum fendleri</i>	
Burton Canyon (M331D)	43
<i>Populus trichocarpa/Alnus incana</i>	
Upper Priest River (M333A)	3
<i>Populus trichocarpa/Cornus stolonifera</i>	
Norman-Parmenter (M333B)	60
Spion Kop (M333D)	85
<i>Potentilla diversifolia-Arenaria obtusiloba</i>	
Smiley Mountain (M332F)	142
<i>Prunus virginiana/Artemisia tridentata vaseyana-</i>	
<i>Symphoricarpos oreophilus</i>	
Thurmon Creek (M331A)	25
<i>Pseudotsuga menziesii/Acer glabrum</i>	
Burton Canyon (M331D)	70
Cuddy Mountain (M332G)	235
Dry Gulch - Forge Creek (M332A)	162
Gibson Jack Creek (M331D)	360
Gros Ventre (M331D)	1215
Gunsight Peak (M331D)	70
Mollens Hollow (M331D)	50
North Fork Boise River (M332A)	200

Cont'd.

Appendix E. (Cont'd.)

	Acres
Pole Canyon (342B-E)	31
Roaring River (M332A)	33
Willow Creek (M331A)	80
<i>Pseudotsuga menziesii/Agropyron spicatum</i>	
Cattle Gulch (M332E)	80
Cliff Lake (M332E)	130
Dry Gulch - Forge Creek (M332A)	162
Elk Creek (M332A)	350
North Fork Boise River (M332A)	200
Warm Springs Creek (M332A)	25
<i>Pseudotsuga menziesii/Arnica cordifolia</i>	
Iron Bog (M332F)	157
Mahogany Creek (M332E)	35
Meadow Canyon (M332E)	320
Webber Creek (M332E)	100
<i>Pseudotsuga menziesii/Berberis repens</i>	
Meade Peak (M331D)	50
Mollens Hollow (M331D)	113
Pole Canyon (342B-E)	31
Roaring River (M332A)	32
St. Charles Creek (M331D)	5
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>	
Back Creek (M332A)	100
Bear Valley Creek (M332E)	1005
Belvidere Creek (M332F)	20
Big Creek (M333B)	30
Burton Canyon (M331D)	70
Cliff Lake (M332E)	520
Cottonwood Creek (M332E)	20
Davis Canyon (M332E)	60
Dome Lake (M332A)	500
Dry Gulch - Forge Creek (M332A)	162
Emery Creek (M332G)	66
Fish Lake (M332A)	20
Garden Creek Preserve (M332G)	5
Gibson Jack Creek (M331D)	15
Gros Ventre (M331D)	11
Gunbarrel Creek (M332A)	167
Kenney Creek (M332E)	69
Lebeau (M333B)	400
Little Bitterroot (M333B)	163
Little Granite Creek (M332G)	150
Lost Basin Grassland (M332G)	4
Monumental Creek (M332A)	22
Norman-Parmenter (M333B)	300
Phoebe Meadows (M332A)	213
Pony Creek (M332G)	100
Redfish Lake Moraine (M332A)	307
Robbers Roost Creek (M331D)	50
Thurmon Creek (M331A)	30
Warm Springs Creek (M332A)	25
West Fork Mink Creek (M331D)	160
Willow Creek (M331A)	30
Wolf-Weigel (M333B)	30

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Pseudotsuga menziesii/Carex geyeri</i>	
Back Creek (M332A)	350
Bannock Creek (M332A)	65
Chilcoot Peak (M332F)	65
Davis Canyon (M332E)	260
Dry Gulch - Forge Creek (M332A)	162
Kenney Creek (M332E)	69
Monumental Creek (M332A)	17
Needles (M332A)	35
Redfish Lake Moraine (M332A)	307
Roaring River (M332A)	33
<i>Pseudotsuga menziesii/Cercocarpus ledifolius</i>	
Bear Valley Creek (M332E)	50
Burton Canyon (M331D)	70
Dry Gulch - Forge Creek (M332A)	162
Mahogany Creek (M332E)	35
Meadow Canyon (M332E)	20
Middle Canyon (M332E)	1000
Mollens Hollow (M331D)	201
St. Charles Creek (M331D)	20
<i>Pseudotsuga menziesii/Festuca idahoensis</i>	
Bear Valley Creek (M332E)	17
Circle End Creek (M332A)	20
Colson Creek (M332A)	55
Dry Gulch - Forge Creek (M332A)	162
Kenney Creek (M332E)	69
Mahogany Creek (M332E)	35
Raspberry Gulch (M332A)	12
Warm Springs Creek (M332A)	55
Webber Creek (M332E)	120
<i>Pseudotsuga menziesii/Juniperus communis</i>	
Basin Gulch (M332F)	20
Cattle Gulch (M332E)	140
Mahogany Creek (M332E)	35
Meade Peak (M331D)	10
Meadow Canyon (M332E)	110
Middle Canyon (M332E)	20
Webber Creek (M332E)	90
<i>Pseudotsuga menziesii/Juniperus scopulorum</i>	
Middle Canyon (M332E)	40
<i>Pseudotsuga menziesii/Leucopoa kingii</i>	
Middle Canyon (M332E)	30
<i>Pseudotsuga menziesii/Linnaea borealis</i>	
Big Creek (M333B)	40
Lebeau (M333B)	400
Little Bitterroot (M333B)	5
<i>Pseudotsuga menziesii/Osmorhiza chilensis</i>	
Burton Canyon (M331D)	70
Gibson Jack Creek (M331D)	30
Gunsight Peak (M331D)	130
Pole Canyon (342B-E)	31
Raspberry Gulch (M332A)	5
Willow Creek (M331A)	60

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Pseudotsuga menziesii/Physocarpus malvaceus</i>	
Afton Front (M331D)	175
Aquarius (M333D)	479
Bannock Creek (M332A)	65
Binarch Creek (M333A)	100
Bull Run Creek (M333D)	30
Burns Canyon (M331D)	185
Chateau Falls (M333D)	120
Circle End Creek (M332A)	586
Cuddy Mountain (M332G)	235
Davis Canyon (M332E)	50
Dome Lake (M332A)	50
Dry Gulch - Forge Creek (M332A)	162
Eggers Creek (M332A)	104
Elk Creek (M332A)	1775
Emery Creek (M332G)	66
Garden Creek Preserve (M332G)	465
Gros Ventre (M331D)	150
Gunbarrel Creek (M332A)	167
Idler's Rest Site (M333D)	15
Lebeau (M333B)	400
Little Granite Creek (M332G)	500
Lochsa (M332A)	115
Lost Basin Grassland (M332G)	16
Lower Ross Creek (M333B)	57
Lowman (M332A)	245
Monumental Creek (M332A)	136
No Business Creek (M332A)	150
Norman-Parmenter (M333B)	300
North Fork Boise River (M332A)	200
O'Hara Creek (M332A)	1710
Pony Creek (M332G)	30
Raspberry Gulch (M332A)	237
Roaring River (M332A)	33
Rocky Comfort Flat (M332G)	214
Tepee Creek (M333A)	20
Three Ponds (M333A)	60
Wapshilla Ridge (M332G)	76
Wolf-Weigel (M333B)	15
<i>Pseudotsuga menziesii/Spiraea betulifolia</i>	
Bannock Creek (M332A)	65
Davis Canyon (M332E)	60
Eggers Creek (M332A)	70
Elk Creek (M332A)	350
Emery Creek (M332G)	66
Gros Ventre (M331D)	10
Kenney Creek (M332E)	69
Lowman (M332A)	18
Monumental Creek (M332A)	53
North Fork Boise River (M332A)	200
Phoebe Meadows (M332A)	213
Roaring River (M332A)	33
Thurmon Creek (M331A)	30
Warm Springs Creek (M332A)	55
Willow Creek (M331A)	270

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>	
Bannock Creek (M332A)	65
Big Creek (M333B)	30
Cliff Lake (M332E)	65
Dry Gulch - Forge Creek (M332A)	162
Elk Creek (M332A)	350
Emery Creek (M332G)	66
Garden Creek Preserve (M332G)	32
Gunbarrel Creek (M332A)	167
Little Granite Creek (M332G)	200
Lowman (M332A)	161
Monumental Creek (M332A)	14
No Business Creek (M332A)	5
Rocky Comfort Flat (M332G)	31
<i>Pseudotsuga menziesii/Symphoricarpos oreophilus</i>	
Bannock Creek (M332A)	65
Bear Creek (Boise) (M332A)	25
Bear Valley Creek (M332E)	241
Burton Canyon (M331D)	70
Cattle Gulch (M332E)	20
Circle End Creek (M332A)	243
Cliff Lake (M332E)	130
Cuddy Mountain (M332G)	235
Eggers Creek (M332A)	56
Iron Bog (M332F)	26
Meadow Canyon (M332E)	560
Pony Creek (M332G)	20
Raspberry Gulch (M332A)	63
Roaring River (M332A)	33
Webber Creek (M332E)	50
Willow Creek (M331A)	100
<i>Pseudotsuga menziesii/Vaccinium caespitosum</i>	
Big Creek (M333B)	100
Lebeau (M333B)	400
Phoebe Meadows (M332A)	213
<i>Pseudotsuga menziesii/Vaccinium globulare</i>	
Big Creek (M333B)	10
Davis Canyon (M332E)	40
Dome Lake (M332A)	25
Phoebe Meadows (M332A)	213
Three Ponds (M333A)	3
<i>Purshia tridentata/Agropyron spicatum</i>	
Goodrich Creek (M332G)	75
Monumental Creek (M332A)	23
Raspberry Gulch (M332A)	19
Roaring River (M332A)	22
West Fork Mink Creek (M331D)	40
<i>Purshia tridentata/Festuca idahoensis</i>	
Rocky Comfort Flat (M332G)	3
<i>Rhus glabra/Agropyron spicatum</i>	
Garden Creek Preserve (M332G)	4
<i>Salix bebbiana</i>	
Upper Priest River (M333A)	2
<i>Salix boothii/Calamagrostis canadensis</i>	
Horse Creek (M331D)	8

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Salix boothii/Carex utriculata</i>	
Blackfoot River (M331D)	118
Flat Ranch (M331A)	30
<i>Salix boothii/mesic graminoid</i>	
Flat Ranch (M331A)	50
<i>Salix boothii/Smilacina stellata</i>	
Gros Ventre (M331D)	36
<i>Salix geyeriana/Calamagrostis canadensis</i>	
Horse Prairie (M332E)	5
<i>Salix geyeriana/Carex aquatilis</i>	
Blackfoot River (M331D)	47
<i>Salix geyeriana/Carex utriculata</i>	
Basin Creek (M332E)	55
Horse Prairie (M332E)	5
Sand Creek Ponds (M331A)	18
<i>Salix geyeriana/mesic graminoid</i>	
East Shore Henrys Lake (M331A)	100
<i>Salix geyeriana/Poa palustris</i>	
Sand Creek Ponds (M331A)	36
<i>Salix lasiandra/Mesic Forb</i>	
Sand Creek Ponds (M331A)	18
<i>Salix planifolia monica/Carex aquatilis-Carex utriculata</i>	
East Shore Henrys Lake (M331A)	30
<i>Salix wolfii/Carex aquatilis</i>	
Blackfoot River (M331D)	24
<i>Salix wolfii/Carex utriculata</i>	
East Shore Henrys Lake (M331A)	30
<i>Sarcobatus vermiculatus/Distichlis stricta stricta</i>	
Oxford Slough (M331D)	18
<i>Scirpus acutus</i>	
Lebeau (M333B)	10
Oxford Slough (M331D)	537
Sand Creek Ponds (M331A)	4
<i>Scirpus cespitosus-Carex livida</i>	
Sawtooth Valley Peatlands (M332A)	25
<i>Scirpus maritimus</i>	
Oxford Slough (M331D)	18
<i>Spartina gracilis</i>	
Oxford Slough (M331D)	18
<i>Spiraea douglasii</i>	
Upper Priest River (M333A)	14
<i>Symphoricarpos albus-Rosa spp.</i>	
Garden Creek Preserve (M332G)	296
Lost Basin Grassland (M332G)	10
Wapshilla Ridge (M332G)	16
<i>Thuja plicata/Adiantum pedatum</i>	
Aquarius (M333D)	1310
Dutch Creek (M332A)	30
Four-bit Creek (M333D)	55
O'Hara Creek (M332A)	1203

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Thuja plicata/Asarum caudatum</i>	
Aquarius (M333D)	325
Binarch Creek (M333A)	10
Bull Run Creek (M333D)	45
Dutch Creek (M332A)	85
Four-bit Creek (M333D)	96
Upper Fishhook (M333D)	37
<i>Thuja plicata/Athyrium filix-femina</i>	
Aquarius (M333D)	69
Binarch Creek (M333A)	5
Bull Run Creek (M333D)	45
Canyon Creek (M333A)	10
Dutch Creek (M332A)	15
Four-bit Creek (M333D)	55
Hunt Girl Creek (M333B)	22
Montford Creek (M333D)	1
Morris Creek Old Growth Cedar Grove (M333D)	16
Potholes (M333A)	51
Tepee Creek (M333A)	181
Three Ponds (M333A)	2
Upper Fishhook (M333D)	37
Upper Priest River (M333A)	437
Upper Shoshone Creek (M333D)	56
<i>Thuja plicata/Clintonia uniflora</i>	
Aquarius (M333D)	404
Binarch Creek (M333A)	5
Bull Run Creek (M333D)	45
Dutch Creek (M332A)	115
Four-bit Creek (M333D)	168
Hoskins Lake (M333B)	125
Lebeau (M333B)	150
Lochsa (M332A)	920
Lower Ross Creek (M333B)	60
Norman-Parmenter (M333B)	135
O'Hara Creek (M332A)	1633
Upper Fishhook (M333D)	210
Warm Springs Creek (M332A)	25
<i>Thuja plicata/Dryopteris spp.</i>	
Aquarius (M333D)	62
<i>Thuja plicata/Gymnocarpium dryopteris</i>	
Bull Run Creek (M333D)	45
Four-bit Creek (M333D)	15
Morris Creek Old Growth Cedar Grove (M333D)	16
Upper Fishhook (M333D)	37
<i>Thuja plicata/Lysichitum americanum</i>	
Aquarius (M333D)	11
Potholes (M333A)	50
<i>Thuja plicata/Oplopanax horridum</i>	
Aquarius (M333D)	48
Binarch Creek (M333A)	10
Canyon Creek (M333A)	10
Hunt Girl Creek (M333B)	22
Lebeau (M333B)	10
Montford Creek (M333D)	40
Norman-Parmenter (M333B)	20

Cont'd.

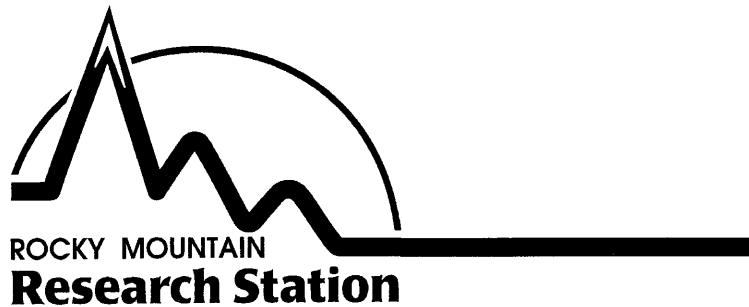
Appendix E. (Cont'd.)

	Acres
Potholes (M333A)	10
Salmo (M333A)	35
Tepee Creek (M333A)	181
Upper Priest River (M333A)	254
Upper Shoshone Creek (M333D)	56
<i>Tsuga heterophylla/Asarum caudatum</i>	
Binarch Creek (M333A)	200
Canyon Creek (M333A)	40
Montford Creek (M333D)	90
Potholes (M333A)	52
Spion Kop (M333D)	67
Three Ponds (M333A)	14
Upper Shoshone Creek (M333D)	56
<i>Tsuga heterophylla/Clintonia uniflora</i>	
Binarch Creek (M333A)	100
Bottle Lake (M333A)	224
Canyon Creek (M333A)	250
Hunt Girl Creek (M333B)	90
Kaniksu Marsh (M333A)	90
Lebeau (M333B)	300
Lower Ross Creek (M333B)	488
Montford Creek (M333D)	102
Norman-Parmenter (M333B)	135
Potholes (M333A)	51
Salmo (M333A)	417
Spion Kop (M333D)	67
Tepee Creek (M333A)	363
Three Ponds (M333A)	42
Upper Priest River (M333A)	332
Upper Shoshone Creek (M333D)	56
<i>Tsuga heterophylla/Gymnocarpium dryopteris</i>	
Canyon Creek (M333A)	40
Hunt Girl Creek (M333B)	22
Montford Creek (M333D)	60
Upper Priest River (M333A)	60
Upper Shoshone Creek (M333D)	56
<i>Tsuga heterophylla/Menziesia ferruginea</i>	
Canyon Creek (M333A)	30
<i>Tsuga mertensiana/Luzula hitchcockii</i>	
Bald Mountain (M333D)	5
Steep Lakes (M333D)	5
Therault Lake (M333D)	10
<i>Tsuga mertensiana/Menziesia ferruginea</i>	
Bald Mountain (M333D)	70
Barktable Ridge (M333D)	40
Elk Butte Mountain Hemlock (M333D)	118
Five Lakes Butte (M333D)	68
Pond Peak (M333D)	102
Steep Lakes (M333D)	120
Therault Lake (M333D)	75
Upper Shoshone Creek (M333D)	250
<i>Tsuga mertensiana/Phyllodoce empetrifomis</i>	
Five Lakes Butte (M333D)	20
<i>Tsuga mertensiana/Streptopus amplexifolius</i>	
Therault Lake (M333D)	2

Cont'd.

Appendix E. (Cont'd.)

	Acres
<i>Tsuga mertensiana/Xerophyllum tenax</i>	
Barktable Ridge (M333D)	291
Five Lakes Butte (M333D)	120
Pond Peak (M333D)	126
Steep Lakes (M333D)	5
Upper Shoshone Creek (M333D)	249
<i>Xerophyllum tenax</i>	
Bald Mountain (M333D)	90



The Rocky Mountain Research Station develops scientific information and technology to improve management, protection, and use of forests and rangelands. Research is designed to meet the needs of National Forest managers, federal and state agencies, public and private organizations, academic institutions, industry, and individuals.

Studies accelerate solutions to problems involving ecosystems, range, forests, water, recreation, fire, resource inventory, land reclamation, community sustainability, forest engineering technology, multiple use economics, wildlife and fish habitat, and forest insects and diseases. Studies are conducted cooperatively, and applications can be found worldwide.

Research Locations

Flagstaff, Arizona
Fort Collins,
Colorado*
Boise, Idaho
Moscow, Idaho
Bozeman, Montana
Missoula, Montana
Lincoln, Nebraska

Reno, Nevada
Albuquerque, New
Mexico
Rapid City, South Dakota
Logan, Utah
Ogden, Utah
Provo, Utah
Laramie, Wyoming

* Station Headquarters, 2150 Centre Avenue, Building A, Fort Collins, CO 80526

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal employment opportunity provider and employer.