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Idaho's Rare Vascular Flora: Bibliography, 1896-1991

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Station, Forest Service, U.S. Department of Agriculture, and the Idaho Department of Fish and Game. We gratefully acknowledge the assistance of George Stephens, information manager at the Conservation Data Center, and Ruth Meerkatz, senior enrollee, stationed at the Intermountain Research Station's Forestry Sciences Laboratory in Boise, ID, for her assistance in processing orders and assembling publication files.

RESEARCH SUMMARY

This bibliography of published and unpublished literature relating to Idaho's rare vascular flora covers the period from 1896 to 1991. It provides biologists, managers, and planners an information base so that past efforts are not duplicated, gaps in our knowledge can be identified and filled, and we can efficiently proceed with the conservation of rare plants in Idaho. The references came from the Source Abstract database of the Idaho Conservation Data Center's Biological and Conservation Data System, an accessible and dynamic information management system directed to the conservation of biological diversity. Keywords pertaining to the subject and species covered are included with each bibliographic entry. Entries are indexed by species.

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Cover Illustration: *Calachontus nitidus*, drawn by Lenora Oosterhuis.

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Idaho's Rare Vascular Flora: Bibliography, 1896-1991

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INTRODUCTION

Biological diversity—especially in the conservation of rare species and natural ecosystems—is now a major international concern. Increasingly at local levels, researchers and land managers search for ways to contribute to the knowledge needed to solve biodiversity problems. In our effort toward conservation of rare plants in Idaho, we compiled this bibliography to provide biologists, managers, and planners an information base so that past efforts are not duplicated, gaps in our knowledge can be identified and filled, and conservation efforts can proceed efficiently.

When it began in 1984, the Idaho Department of Fish and Game's Conservation Data Center (formerly the Idaho Natural Heritage Program) inherited a two-decade accumulation of information pertaining to Idaho's rare plants. Much of this knowledge came from the personal experiences and extensive data compilation efforts of the Rare and Endangered Plants Technical Committee of the Idaho Natural Areas Council. The Technical Committee—consisting of Robert Steele (chair), Steven Brunsfeld, Douglass Henderson, Karl Holte, Frederic Johnson, and Patricia Packard—laid the foundation for rare plant conservation activities in the State and produced the first assessments of the status of Idaho's rare flora (see entries 694 and 695). Over its 8 years' existence, the Idaho Conservation Data Center has built upon this foundation and become the State's central clearinghouse and repository for rare plant data.

The Idaho Conservation Data Center is part of a worldwide information network directed toward the conservation of biological diversity. The network maintains permanent and dynamic atlases and databases on the existence, characteristics, numbers, condition, status, location, and distribution of rare species and communities. Developed and supported by The Nature Conservancy, this standardized information management methodology includes computerized databases known as the Biological and Conservation Data System (BCD). This bibliography was generated from one of the BCD databases, known as the Source Abstract database. In addition

to the computerized files, the Idaho Conservation Data Center maintains manual files, which include all of the references cited here.

The bibliography includes both published articles and unpublished reports pertaining to the conservation and management of Idaho's rare vascular flora and issued from 1896 through 1991. Taxa appearing on the Idaho Native Plant Society's 1991 list of rare vascular plants for Idaho (see entry 371) formed the basis for this project. However, no sources were located for many taxa. An alphabetical list of the taxa covered by this bibliography appears in the Index. The Index contains only rare species names and may not necessarily reflect other names that appear in publication titles. Spellings for scientific names are taken from the Idaho Native Plant Society's 1991 list.

A majority of the published literature was located through computerized, global literature searches, conducted for each taxon. About 300 databases were searched to locate information. For some species, searches were conducted in all databases available through the Dialog® vending service. Because of time and monetary constraints, eight particularly useful databases (Agricola, Biosis Previews®, CAB Abstracts, CRIS/USA, Environmental Bibliography, Dissertation Abstracts Online, Geobase™, and Pascal) were consulted for most of the species. All searching was done using scientific names. In general, we excluded sources relating to pharmacology and biochemistry and foreign language publications without English abstracts.

Unpublished reports included in the bibliography pertain primarily to rare taxa as they occur in Idaho and adjacent areas. We did not make an attempt to locate unpublished sources from throughout the range of widely distributed taxa.

Although the Source Abstract record contains many information fields, we used only two to produce this bibliography: CITATION and KEYWORDS. Other fields, such as ABSTRACT, are not included here due to space limitations but are available on request from the Idaho Conservation Data Center (see address at the end of this section).

Each entry consists of two parts:

- A. Bibliographic citation—numbered and listed alphabetically by the senior author's surname.
- B. Keywords—a two-part field:
 1. Taxon or taxa included in the reference. Several references, such as checklists, rare plant field guides, and floras, contain information on many rare taxa and are indicated as "multispecies."
 2. Subject category(ies) of the reference, falling into one or more of eight general areas:
 - a. Biology—pertains to a variety of studies relating to a species' biology not covered in other categories, including reproductive strategy, pollination, seed dispersal, seed biology, seedling ecology, nature of mortality, anatomy and morphology, pathology, physiology, and mycorrhizal associations, among others.
 - b. Community ecology—reference relating to the taxon.
 - c. Distribution—relating to the geographical occurrence or range of a taxon or a biogeographical analysis of the taxon or related group.
 - d. Genetics—relating to the genetics of a taxon.
 - e. Management techniques—relating to the management or recovery of a taxon, or both.
 - f. Monitoring—pertaining to the quantitative assessment of a taxon over time.
 - g. Status survey—comprehensive review of the distribution, abundance, and conservation status of a taxon throughout all or a portion of its range.
 - h. Taxonomy—taxon description or monograph of family, tribe, or genus.

The index assists in the use of the bibliography. It lists the numbers of the bibliographic entries for each taxon.

As with all our BCD databases, the Source Abstract database is constantly being updated as older sources are brought to our attention and new information becomes available. We welcome corrections and additions, which can be forwarded to us at:

Conservation Data Center
Idaho Department of Fish and Game
600 S. Walnut, P.O. Box 25
Boise, ID 83843

Phone: (208) 334-3402
FAX: (208) 334-2114

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Community ecology

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Scirpus subterminalis

Biology

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Lycopodium sitchense

Taxonomy

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Community ecology

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Taxonomy

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Community ecology

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Taxonomy

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Carex chordorrhiza, *Carex comosa*, *Carex flava*

Biology

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Botrychium crenulatum, *Botrychium lanceolatum*
lanceolatum, *Botrychium minganense*
Status survey

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Allium tolmiei persimile
Status survey

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Status survey

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Lepidium davisii
Monitoring

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Biology, management techniques

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Multispecies
Distribution

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Multispecies
Distribution

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pacificus, *Sanicula marilandica*, *Scheuchzeria*
palustris
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Biology

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Multispecies
Distribution

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Peraphyllum ramosissimum
Biology, distribution

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Carex buxbaumii, *Salix candida*
Community ecology

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Thalictrum dasycarpum
Distribution, taxonomy

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Allium aaseae
Biology, management techniques

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Community ecology, monitoring

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Carex chordorrhiza, *Lycopodium inundatum*
Community ecology, management techniques

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Carex chordorrhiza, *Lycopodium inundatum*,
Rhynchospora alba, *Vaccinium oxycoccos*
Monitoring

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Carex chordorrhiza, *Lycopodium inundatum*
Biology, monitoring

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Community ecology, distribution

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Taxonomy

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Distribution, taxonomy

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Kobresia simpliciuscula, *Lychnis apetala montana*,
Saxifraga cernua
Distribution

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Scirpus subterminalis
Distribution

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Multispecies
Distribution

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Cornus nuttallii
Biology, management techniques

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Ceanothus prostratus
Management techniques

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Distribution

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Distribution, taxonomy

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Biology

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Multispecies
Community ecology, distribution

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Multispecies
Status survey

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Distribution, taxonomy

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Betula pumila glandulifera
Distribution, taxonomy

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Erigeron salmonensis
Distribution, taxonomy

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Epipactis gigantea
Biology, distribution

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Distribution
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Biology, taxonomy
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- Multispecies
Community ecology, distribution
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- Multispecies
Status survey
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Biology
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Status survey
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- Multispecies
Status survey
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Status survey
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Status survey
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Monitoring, status survey
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Monitoring
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Calochortus nitidus
Status survey

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Draba trichocarpa
Status survey

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Thelypodium repandum
Status survey

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Carex flava, *Carex hendersonii*, *Carex idahoensis*, *Carex livida*, *Carex paupercula*, *Carex tumulicola*
Status survey

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Status survey

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Calochortus nitidus
Biology, management techniques

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Calochortus nitidus
Biology, monitoring

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Calochortus nitidus
Management techniques

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Astragalus leptaleus
Distribution

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Multispecies
Distribution, status survey

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Thalictrum dasycarpum
Distribution

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Elaeagnus commutata
Biology

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Dryopteris cristata
Distribution

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- Hackelia ophiobia*
Taxonomy
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Distribution
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Biology
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- Scirpus subterminalis*
Community ecology, distribution
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Status survey
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- Draba incerta*
Biology
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Distribution
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- Hackelia davisii*
Status survey
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Distribution
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- Multispecies
Status survey
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Status survey
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- Multispecies
Status survey

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Primula alcalina
Distribution, taxonomy
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Collomia debilis camporum
Taxonomy
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Corallorhiza wisteriana
Distribution
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Corallorhiza wisteriana
Distribution
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Sedum borschii, *Sedum rupicolum*
Distribution, taxonomy
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Astragalus bisulcatus
Biology
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Scheuchzeria palustris
Distribution
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Rhynchospora alba
Distribution
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Ledum groenlandicum, *Scirpus cyperinus*
Distribution
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Epipactis gigantea
Distribution
172. Coleman, Ronald A. 1987. *Epipactis gigantea* revisited. *The Orchid Digest*. 51(4): 203-204.
Epipactis gigantea
Distribution
173. Comeau, Paul L.; Beil, Charles E. 1984. Raised bogs on the Cape Breton Plateau. *Proceedings of the Nova Scotian Institute of Science*. 34(1): 41-81.
Ledum groenlandicum, *Rhynchospora alba*, *Vaccinium oxycoccos*
Community ecology
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Betula pumila glandulifera
Community ecology
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Betula pumila glandulifera
Community ecology
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Mirabilis macfarlanei
Taxonomy

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Carex livida, *Kobresia simpliciuscula*, *Salix candida*
Community ecology, distribution

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Synthyris platycarpa
Community ecology

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Mimulus ringens
Distribution

180. Copeland, Herbert F. 1938. The structure of *Allotropa*. *Madroño*. 4: 137-153.

Allotropa virgata
Biology

181. Corns, I. G. W. 1983. Forest community types of west-central Alberta in relation to selected environmental factors. *Canadian Journal of Botany*. 13(5): 995-1010.

Ledum groenlandicum, *Picea glauca*, *Rubus pubescens*
Community ecology

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Habenaria obtusata
Distribution, taxonomy

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Blechnum spicant
Biology, community ecology

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Blechnum spicant
Biology, community ecology

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Blechnum spicant
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Community ecology, distribution

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Community ecology
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Community ecology

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Distribution

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Distribution, taxonomy

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Community ecology

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Multispecies
Status survey

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Multispecies
Community ecology

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Distribution

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Distribution

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Taxonomy

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Multispecies
Distribution

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Multispecies
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Distribution, taxonomy
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Distribution, taxonomy
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Biology
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Biology
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Distribution

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Carex flava
Distribution
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Taxonomy
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Taxonomy
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Status survey
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Biology
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Community ecology
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Distribution
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Management techniques
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Community ecology
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Taxonomy
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Taxonomy
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Taxonomy
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Distribution, taxonomy
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formis, *Astragalus paysonii*, *Astragalus purshii*
ophiogenes, *Astragalus riparius*, *Astragalus salmonis*,
Astragalus tetraapterus, *Astragalus vallis*, *Astraga-*
lus vexilliflexus nubilus, *Astragalus yoder-williamsii*
Distribution, taxonomy

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oxycoccus
Distribution

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Distribution

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Kobresia simpliciuscula
Community ecology

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Camassia cusickii
Taxonomy

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Calandrinia ciliata, *Camassia cusickii*, *Cryptantha*
simulans, *Eburophyton austinae*, *Halimolobos*
perplexa perplexa, *Mirabilis macfarlanei*, *Penstemon*
elegantulus, *Peraphyllum ramosissimum*
Community ecology

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Management techniques, monitoring

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Distribution

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Community ecology

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Phlox idahonis
Status survey

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Biology, community ecology, status survey

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Monitoring

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Distribution
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Distribution
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Biology, community ecology, management techniques
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Community ecology, distribution
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Distribution
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- Multispecies
Distribution
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Distribution
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Management techniques
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Taxonomy
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Status survey
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- Aster jessicae*
Taxonomy

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Taxonomy
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- Multispecies
Distribution
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Status survey
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Taxonomy
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Monitoring
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Biology, status survey, taxonomy
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Taxonomy
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Taxonomy

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Taxonomy
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Taxonomy
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Distribution, taxonomy
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Taxonomy
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Distribution, taxonomy
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Status survey
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Status survey
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Status survey
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Status survey
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Status survey
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Status survey
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Status survey
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Community ecology
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Community ecology, distribution

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Vaccinium oxycoccos
Distribution
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Distribution
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Taxonomy
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Distribution
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Taxonomy
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Community ecology
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Status survey
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Distribution
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Distribution
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Community ecology
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Taxonomy
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Distribution
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Distribution
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Taxonomy
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Distribution, taxonomy

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Ledum groenlandicum

Community ecology

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Maianthemum dilatatum

Taxonomy

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Multispecies

Distribution

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Multispecies

Distribution

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Distribution

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Polystichum kruckebergii

Distribution

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Multispecies

Distribution

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Distribution

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Polypodium glycyrrhiza

Taxonomy

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Salix candida, *Salix pedicellaris*

Distribution

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Psilocarphus tenellus

Community ecology, distribution

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Distribution

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Multispecies

Community ecology, distribution

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Andromeda polifolia

Management techniques

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Distribution, taxonomy
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Status survey
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Biology, community ecology, distribution
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Distribution
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Community ecology
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Distribution
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Distribution
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Community ecology, status survey
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Biology
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Biology
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Biology, monitoring
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- Silene spaldingii*
Biology, monitoring

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Howellia aquatilis
Biology

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Agoseris lackschewitzii, *Astragalus leptaleus*, *Carex idahoensis*
Community ecology, distribution

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Silene spaldingii
Biology

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Carex comosa, *Kobresia simpliciuscula*, *Primula alcalina*, *Scirpus cyperinus*
Distribution

473. Lesica, Peter; Leary, Robb F. 1987. Lack of genetic diversity within and among populations of the rare plant, *Howellia aquatilis*. Prepared for: The Nature Conservancy, Montana/Wyoming Field Office, Helena, MT. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 12 p. plus references.

Howellia aquatilis
Biology, distribution, genetics

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Howellia aquatilis
Biology, distribution, genetics

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Multispecies
Distribution

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Multispecies
Distribution

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Cornus nuttallii
Monitoring

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Multispecies
Monitoring

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Allotropa virgata
Monitoring, status survey

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Bouteloua gracilis, *Stipa viridula*
Biology

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Astragalus bisulcatus, *Astragalus gilviflorus*,
Bouteloua gracilis, *Carex stenophylla*, *Coryphantha vivipara*, *Hymenoxys richardsonii*, *Stipa viridula*
Community ecology, distribution

482. Lieffers, V. J.; Rothwell, R. L. 1987. Effects of drainage on substrate temperature and phenology of some trees and shrubs in an Alberta peatland. *Canadian Journal of Forest Research*. 17(2): 97-104.

Betula pumila glandulifera
Community ecology

483. Lindholm, Tapio. 1982. Growth dynamics and the effect of frost in *Andromeda polifolia* on a raised bog. *Annales Botanici Fennici*. 19(3): 193-201.

Andromeda polifolia
Biology

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Andromeda polifolia, *Vaccinium oxycoccos*
Biology

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Eburophyton austiniae
Distribution

486. Lorain, Christine C. 1988. Floristic history and distribution of coastal disjunct plants of the Northern Rocky Mountains. Moscow, ID: University of Idaho. 221 p. Thesis.

Multispecies
Community ecology, distribution

487. Lorain, Christine C. 1989. Field investigation of *Festuca subuliflora* (crinkle-awn fescue), a Region 1 sensitive species, on the Nez Perce and Clearwater National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 8 p. plus appendices.

Festuca subuliflora
Status survey

488. Lorain, Christine C. 1989. Field investigation of *Tauschia tenuissima*, a Region 1 sensitive species on the Clearwater National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 7 p. plus appendices.

Tauschia tenuissima
Status survey

489. Lorain, Christine C. 1989. Field investigations of three Region 1 sensitive species on the Clearwater National Forest: *Asplenium trichomanes* (Maidenhair spleenwort), *Thelypteris nevadensis* (Sierra woodfern), and *Dodecatheon hendersonii* (Henderson's shooting star); plus new locations for additional sensitive species. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 19 p. plus appendices.

Multispecies
Status survey

490. Lorain, Christine C. 1990. Field investigations of *Astragalus paysonii* (Payson's milk-vetch), a Region 1 sensitive species on the Nez Perce National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 11 p. plus appendices.

Astragalus paysonii
Status survey

491. Lorain, Christine C. 1990. Field investigations of *Botrychium* subgenus *Botrychium* (Moonworts), on the Idaho Panhandle National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 34 p. plus appendices.

Botrychium crenulatum, *Botrychium lanceolatum*,
Botrychium lanceolatum, *Botrychium manganense*, *Botrychium pinnatum*, *Botrychium simplex*
Status survey

492. Lorain, Christine C. 1990. Report on the conservation status of *Antennaria arcuata* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 42 p. plus appendices.

Antennaria arcuata

Status survey

493. Lorain, Christine C. 1990. Report on the conservation status of *Tauschia tenuissima* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 25 p. plus appendices.

Tauschia tenuissima

Status survey

494. Lorain, Christine C. 1990. Seed collection and conservation of *Cornus nuttallii* (Pacific dogwood), a Region 1 sensitive species. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 13 p. plus appendices.

Cornus nuttallii

Management techniques, monitoring

495. Lorain, Christine C. 1990. Species management guide for *Juncus effusus* var. *pacificus* (soft rush) on the Clearwater National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 10 p. plus appendices.

Juncus effusus pacificus

Management techniques, status survey

496. Lorain, Christine C. 1991. Action plan for sensitive plant species on the Clearwater National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 62 p. plus appendices.

Multispecies

Distribution, management techniques

497. Lorain, Christine C. 1991. Conservation plan for *Cornus nuttallii* (Pacific dogwood), in Idaho. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 15 p. plus appendix.

Cornus nuttallii

Monitoring

498. Lorain, Christine. 1991. Rare plants on the Idaho Panhandle National Forests. Unpublished pamphlet prepared for and on file at: U.S. Department of Agriculture, Idaho Panhandle National Forests, Coeur d'Alene, ID. 49 p.

Multispecies

Distribution

499. Lorain, Christine C. 1991. Report on the conservation status of *Aster jessicae*, in Idaho and Washington. Unpublished report on file at: Idaho Department of Fish and Game, Idaho Conservation Data Center, Boise, ID. 57 p. plus appendices.

Aster jessicae

Status survey

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Silene spaldingii

Status survey

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Grindelia howellii

Management techniques, status survey

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Mimulus clivicola

Management techniques, monitoring

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Cornus nuttallii

Monitoring

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- Mimulus clivicola*
Status survey
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Status survey
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Taxonomy
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- Papaver kluanense*
Distribution, taxonomy
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Taxonomy
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Community ecology
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Community ecology
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Distribution
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Taxonomy
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Distribution
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Distribution
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- Epilobium palustre*
Community ecology
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- Epipactis gigantea*
Status survey
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- Haplopappus radiatus*
Status survey

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Status survey
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Status survey
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- Chrysothamnus parryi montanus*
Status survey
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Status survey
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Status survey
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Status survey
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Status survey
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Distribution
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Status survey
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Status survey
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Status survey

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Distribution, taxonomy

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Community ecology, distribution

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Ranunculus pygmaeus, *Salix glauca*

Distribution

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Musineon lineare

Taxonomy

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Tauschia tenuissima

Distribution, taxonomy

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Taxonomy

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Community ecology

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Taxonomy

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Peraphyllum ramosissimum

Genetics, taxonomy

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Management techniques

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Distribution

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Taxonomy

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Taxonomy

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Multispecies

Distribution

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Multispecies

Distribution

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Multispecies

Status survey

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Leptodactylon glabrum, *Leptodactylon pungens hazeliae*

Distribution, taxonomy

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Allium tolmiei persimile, *Allium tolmiei platyphyllum*

Distribution

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Epipactis gigantea

Distribution

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Taxonomy

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Community ecology

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Elaeagnus commutata

Management techniques

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Camassia cusickii, *Rubus bartonianus*

Community ecology

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Taxonomy

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Community ecology, distribution

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Bouteloua gracilis, *Carex stenophylla*

Community ecology

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Howellia aquatilis

Management techniques, status survey

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Asplenium trichomanes

Taxonomy

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Elaeagnus commutata

Biology

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Stellaria calycantha calycantha

Taxonomy

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Lomatium rollinsii, *Mirabilis macfarlanei*

Distribution

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Halimolobos perplexa perplexa, *Leptodactylon pungens hazeliae*, *Rubus bartonianus*

Distribution

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Calamagrostis tweedyi

Status survey

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Douglasia idahoensis

Status survey

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Draba trichocarpa, *Eriogonum meledonum*, *Thlaspi aileeniae*

Status survey

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Lomatium rollinsii

Management techniques, status survey

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Allium validum

Status survey

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Allium validum, *Douglasia idahoensis*
Status survey

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Epipactis gigantea, *Erigeron salmonensis*, *Hackelia davisii*
Status survey

568. Moseley, Robert K. 1989. Field investigations of four *Astragali*, all Region 4 sensitive species, on the Salmon National Forest, with notes on two others. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 23 p. plus appendices.

Astragalus amblytropis, *Astragalus amnis-amissi*,
Astragalus aquilonius, *Astragalus gilviflorus*
Status survey

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Astragalus vallis, *Leptodactylon pungens hazeliae*,
Mirabilis macfarlanei, *Rubus bartonianus*
Status survey

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Saxifraga bryophora tobiasiae
Status survey

571. Moseley, Robert K. 1989. Field investigations of seven rare alpine plant species in the southern Lemhi Range and Beaverhead Mountains, Dubois Ranger District, Targhee National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 33 p. plus appendices.

Cymopterus douglassii, *Cymopterus ibapensis*, *Erigeron humilis*, *Lychnis apetala montana*, *Papaver kluanense*, *Saxifraga cernua*
Status survey

572. Moseley, Robert K. 1989. Field investigations of 16 rare plant taxa occurring in wetlands on the Bonners Ferry Ranger District, Idaho Panhandle National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 75 p. plus appendices.

Multispecies
Status survey

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Artemisia packardiae
Status survey

574. Moseley, Robert K. 1989. Report on the conservation status of *Astragalus mulfordiae* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 31 p. plus appendices.

Astragalus mulfordiae
Status survey

575. Moseley, Robert K. 1989. Report on the conservation status of *Claytonia lanceolata* var. *flava* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished

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Claytonia lanceolata flava
Status survey

576. Moseley, Robert K. 1989. Report on the conservation status of *Phacelia inconspicua* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 18 p. plus appendices.

Phacelia inconspicua
Status survey

577. Moseley, Robert K. 1989. Report on the conservation status of *Primula alcalina*, a proposed Candidate species. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 32 p. plus appendices.

Primula alcalina
Status survey

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Carex flava, *Cicuta bulbifera*, *Dryopteris cristata*,
Hypericum majus, *Lycopodium inundatum*, *Petasites sagittatus*, *Salix candida*, *Scirpus cyperinus*
Status survey

579. Moseley, Robert K. 1990. Report on the conservation status of *Carex aboriginum*, in Idaho. Prepared for Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 17 p. plus appendices.

Carex aboriginum
Status survey

580. Moseley, Robert K. 1990. Report on the conservation status of *Douglasia idahoensis*, in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and

Game, Conservation Data Center, Boise, ID. 34 p. plus appendices.

Douglasia idahoensis
Status survey

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Multispecies
Distribution

582. Moseley, Robert K. 1990. Vegetation map of the proposed Rocky Comfort Flat Research Natural Area, Payette National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 13 p. plus appendices.

Allium tolmiei persimile
Community ecology

583. Moseley, Robert K. 1991. A field investigation of park milkvetch (*Astragalus leptaleus*) in Idaho. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 12 p. plus appendices.

Astragalus leptaleus
Status survey

584. Moseley, Robert K. 1991. Threatened, endangered and sensitive plant inventory of the Bear River Range, Caribou National Forest: second year results. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 20 p. plus appendices.

Asplenium viride, *Cryptantha caespitosa*, *Cypripedium fasciculatum*, *Musineon lineare*, *Penstemon compactus*, *Stipa viridula*
Status survey

585. Moseley, Robert K.; Bernatas, Susan. 1991. A floristic and vegetation survey of Lucile Caves Area of Critical Environmental Concern, Coeur d'Alene District, BLM. Tech. Bull. 91-3. Boise, ID: U. S. Department of the Interior, Bureau of Land Management, Idaho State Office. 31 p. plus appendices. Also on file at: Idaho Department of Fish

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- Epipactis gigantea*, *Erigeron engelmannii davisii*,
Lomatium rollinsii, *Mirabilis macfarlanei*
Community ecology, management techniques, status
survey
586. Moseley, Robert, K.; Bernatas, Susan. 1991.
Confirmation of *Pentagramma triangularis*
in Idaho. American Fern Journal. 81(1): 66-67.
- Pityrogramma triangularis*
Distribution
587. Moseley, Robert K.; Bernatas, Susan. 1992. A
botanical inventory of the Kane Lake cirque,
Pioneer Mountains, Idaho, including man-
agement recommendations for rare plant
populations. Unpublished report on file at:
Idaho Department of Fish and Game, Con-
servation Data Center, Boise, ID. 22 p. plus
appendices.
- Carex incurviformis*, *Draba fladnizensis*, *Erigeron*
humilis, *Parnassia kotzebuei kotzebuei*, *Potentilla*
nivea, *Ranunculus gelidus*, *Ranunculus pygmaeus*,
Saxifraga adscendens oregonensis, *Saxifraga cernua*
Distribution
588. Moseley, Robert K.; Bursik, Robert; Mancuso,
Michael. 1991. Floristic inventory of wet-
lands in Fremont and Teton counties, Idaho.
Unpublished report on file at: Idaho Depart-
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- Multispecies
Status survey
589. Moseley, Robert K.; Caicco, Steven L. 1989.
Status and distribution of Aase's onion (*Al-
lium aaseae*), a Federal candidate species,
on Ada County lands in Seaman Gulch. Pre-
pared for: Ada County Solid Waste Manage-
ment. Unpublished report on file at: Idaho
Department of Fish and Game, Conservation
Data Center, Boise, ID. 6 p. plus appendices.
- Allium aaseae*
Status survey
590. Moseley, Robert; Groves, Craig, compilers.
1990. Rare, threatened and endangered
plants and animals of Idaho. Boise, ID:
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Distribution
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Taxonomy

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Taxonomy
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Biology, distribution

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Status survey

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Distribution, status survey

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Biology, community ecology

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Status survey

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Management techniques

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Status survey

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Monitoring, status survey

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Status survey

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Status survey

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Status survey

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Status survey

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Monitoring, status survey

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Status survey

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Distribution

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Multispecies
Status survey

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Status survey

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Status survey

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Status survey

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Multispecies
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Status survey

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Community ecology

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Community ecology

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Taxonomy
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Biology
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Status survey
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Distribution
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Taxonomy

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Distribution, genetics

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Biology, genetics

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Taxonomy

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Ludwigia polycarpa
Distribution

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Distribution

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Distribution

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Biology

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Biology

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Distribution, taxonomy

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Distribution, taxonomy

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Distribution, taxonomy

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Community ecology

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Distribution

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This bibliography of 928 published and unpublished references provides biologists, managers, and planners an information base on Idaho's rare vascular plants. It covers the period 1896 to 1991 and was generated from the Source Abstract database of the Idaho Conservation Data Center's Biological and Conservation Data System.

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The Intermountain Research Station provides scientific knowledge and technology to improve management, protection, and use of the forests and rangelands of the Intermountain West. Research is designed to meet the needs of National Forest managers, Federal and State agencies, industry, academic institutions, public and private organizations, and individuals. Results of research are made available through publications, symposia, workshops, training sessions, and personal contacts.

The Intermountain Research Station territory includes Montana, Idaho, Utah, Nevada, and western Wyoming. Eighty-five percent of the lands in the Station area, about 231 million acres, are classified as forest or rangeland. They include grasslands, deserts, shrublands, alpine areas, and forests. They provide fiber for forest industries, minerals and fossil fuels for energy and industrial development, water for domestic and industrial consumption, forage for livestock and wildlife, and recreation opportunities for millions of visitors.

Several Station units conduct research in additional western States, or have missions that are national or international in scope.

Station laboratories are located in:

Boise, Idaho

Bozeman, Montana (in cooperation with Montana State University)

Logan, Utah (in cooperation with Utah State University)

Missoula, Montana (in cooperation with the University of Montana)

Moscow, Idaho (in cooperation with the University of Idaho)

Ogden, Utah

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