

NATURAL PLANT COMMUNITIES OF IDAHO
A WORKING LIST FOR THE CONSERVATION OF BIOLOGICAL DIVERSITY

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Compiled by
Steven K. Rust
Conservation Data Center
Idaho Department of Fish and Game

Introduction. Plant communities (potential natural vegetation plant associations and stable plant community types) known or expected to occur in Idaho are listed within the physiognomic framework of the National Vegetation Classification (NVC). Four hierarchical levels are presented (using the plant association *Pinus albicaulis/Carex rossii* as an example): CLASS (e.g., I. Forest), SUBCLASS (e.g., I.A. Evergreen Forest), GROUP (e.g., I.A.8.N. Temperate or Subpolar Needle-leaved Evergreen Forest), and FORMATION (e.g., I.A.8.N.b. Round-crowned evergreen forest). Some terms used in the NVC hierarchical scheme are replaced with terms that are more familiar to our region (e.g., 'closed tree canopy' as used in the NVC is replaced here by 'forest'). The letter 'N' in the GROUP and FORMATION codes (e.g., I.A.8.N.b.) distinguishes natural and semi-natural vegetation from planted or cultivated vegetation. All of the plant community elements listed here are considered natural or semi-natural.

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. Uncertainty in the classification of vegetation in Idaho may be attributed to the following sources: First, some plant community elements are based only on field observations (formal data collection and analysis have not contributed to the recognition of the element). These elements were usually observed and recorded as occurring within the region prior to the availability of appropriate classification work. Quantitative documentation of the structure and species composition of these plant communities is needed. Second, a number of plant communities observed in Idaho are thought to be similar to communities that are described outside our area; but only observational data support the occurrence of the element in our area. Finally, there is a group of communities that are described over a small area relative to the expected range of the element; the relevance of the classification work to the expected range of occurrence has not been formally documented. To assist with the recognition of plant community classification and inventory needs and to assure appropriate use of the information presented here, the relative confidence in the classification of individual plant community elements is indicated within the list.

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- I. Forest
 - I.A. Evergreen Forest
 - I.A.8. Temperate or Subpolar Needle-Leaved Evergreen Forest
 - I.A.8.N.b. Round-crowned evergreen forest
 - Pinus albicaulis/Carex rossii
 - Pinus albicaulis/Vaccinium scoparium
 - Pinus contorta/Arnica cordifolia

Pinus contorta/*Calamagrostis rubescens*
Pinus contorta/*Spiraea betulifolia*
Pinus contorta/*Vaccinium caespitosum*
Pinus contorta/*Vaccinium globulare*
Pinus contorta/*Vaccinium scoparium*
Pinus contorta/*Xerophyllum tenax*
Pinus ponderosa/*Calamagrostis rubescens* §¹
Pinus ponderosa/*Physocarpus malvaceus*
Pinus ponderosa/*Symphoricarpos albus*
Pinus ponderosa/*Symphoricarpos oreophilus*

I.A.8.N.c.

Conical-crowned evergreen forest
Abies grandis/*Acer glabrum*
Abies grandis/*Adiantum pedatum* §
Abies grandis/*Asarum caudatum*
Abies grandis/*Clintonia uniflora*
Abies grandis/*Coptis occidentalis*
Abies grandis/*Linnaea borealis*
Abies grandis/*Physocarpus malvaceus*
Abies grandis/*Spiraea betulifolia*
Abies grandis/*Taxus brevifolia*/*Asarum caudatum*
Abies grandis/*Taxus brevifolia*/*Clintonia uniflora*
Abies grandis/*Vaccinium caespitosum*
Abies grandis/*Vaccinium globulare*
Abies grandis/*Xerophyllum tenax*
Picea engelmannii/*Arnica cordifolia*
Picea engelmannii/*Hypnum revolutum*
Picea engelmannii/*Juniperus communis*
Picea engelmannii/*Ribes montigenum*
Pseudotsuga menziesii/*Acer glabrum*
Pseudotsuga menziesii/*Arnica cordifolia*
Pseudotsuga menziesii/*Berberis repens*
Pseudotsuga menziesii/*Calamagrostis rubescens*
Pseudotsuga menziesii/*Carex geyeri*
Pseudotsuga menziesii/*Juniperus communis*
Pseudotsuga menziesii/*Linnaea borealis*
Pseudotsuga menziesii/*Osmorhiza chilensis*
Pseudotsuga menziesii/*Physocarpus malvaceus*
Pseudotsuga menziesii/*Spiraea betulifolia*

Pseudotsuga menziesii/Symphoricarpos albus
Pseudotsuga menziesii/Symphoricarpos oreophilus
Pseudotsuga menziesii/Vaccinium caespitosum
Pseudotsuga menziesii/Vaccinium globulare
Thuja plicata/Dryopteris spp
Thuja plicata/Adiantum pedatum
Thuja plicata/Asarum caudatum
Thuja plicata/Clintonia uniflora
Thuja plicata/Gymnocarpium dryopteris
Tsuga heterophylla/Asarum caudatum
Tsuga heterophylla/Clintonia uniflora
Tsuga heterophylla/Gymnocarpium dryopteris
Tsuga heterophylla/Menziesia ferruginea
Tsuga mertensiana/Clintonia uniflora
Tsuga mertensiana/Luzula hitchcockii
Tsuga mertensiana/Menziesia ferruginea
Tsuga mertensiana/Phyllodoce empetriformis §
Tsuga mertensiana/Xerophyllum tenax

I.A.8.N.d.

Cylindrical-crowned evergreen forest
Abies lasiocarpa/Acer glabrum
Abies lasiocarpa/Actaea rubra
Abies lasiocarpa/Alnus sinuata
Abies lasiocarpa/Arnica cordifolia
Abies lasiocarpa/Arnica latifolia
Abies lasiocarpa/Berberis repens
Abies lasiocarpa/Calamagrostis rubescens
Abies lasiocarpa/Carex geyeri
Abies lasiocarpa/Carex rossii
Abies lasiocarpa/Clintonia uniflora
Abies lasiocarpa/Coptis occidentalis
Abies lasiocarpa/Linnaea borealis
Abies lasiocarpa/Luzula hitchcockii
Abies lasiocarpa/Menziesia ferruginea
Abies lasiocarpa/Osmorhiza chilensis
Abies lasiocarpa/Pedicularis racemosa
Abies lasiocarpa/Physocarpus malvaceus
Abies lasiocarpa/Polemonium pulcherrimum
Abies lasiocarpa/Rhododendron albiflorum §

- Abies lasiocarpa/Ribes montigenum
- Abies lasiocarpa/Spiraea betulifolia
- Abies lasiocarpa/Symphoricarpos albus
- Abies lasiocarpa/Thalictrum occidentale
- Abies lasiocarpa/Vaccinium caespitosum
- Abies lasiocarpa/Vaccinium globulare
- Abies lasiocarpa/Vaccinium scoparium
- Abies lasiocarpa/Xerophyllum tenax
- I.A.8.N.e. Seasonally/temporarily flooded evergreen forest
 - Picea engelmannii/Calamagrostis canadensis
 - Picea engelmannii/Galium trifolium
- I.A.8.N.f. Seasonally flooded/saturated evergreen forest
 - Abies grandis/Senecia triangularis
 - Abies lasiocarpa/Calamagrostis canadensis
 - Abies lasiocarpa/Caltha biflora
 - Abies lasiocarpa/Ledum glandulosum
 - Abies lasiocarpa/Oplopanax horridum
 - Abies lasiocarpa/Streptopus amplexifolius
 - Picea engelmannii/Caltha leptosepala
 - Picea engelmannii/Carex disperma
 - Picea engelmannii/Equisetum arvense
 - Picea glauca/Carex disperma
 - Picea glauca/Carex utriculata
 - Picea glauca/Equisetum arvense
 - Pinus contorta/Vaccinium occidentale
 - Thuja plicata/Athyrium filix-femina
 - Thuja plicata/Lysichitum americanum †²
 - Thuja plicata/Oplopanax horridum
 - Tsuga mertensiana/Streptopus amplexifolius
- I.B. Deciduous Forest
 - I.B.2. Cold-Deciduous Forest
 - I.B.2.N.b. Montane or boreal cold-deciduous forest
 - Acer grandidentatum/Berberis repens §
 - Acer grandidentatum/Calamagrostis rubescens §
 - Acer grandidentatum/Juniperus scopulorum §
 - Acer grandidentatum/Osmorhiza chilensis §
 - Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Bromus carinatus
 - Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Calamagrostis rubescens

Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Tall Forb
 Populus tremuloides/Amelanchier alnifolia-Symphoricarpos oreophilus/Thalictrum fendleri
 Populus tremuloides/Amelanchier alnifolia/Tall Forb
 Populus tremuloides/Amelanchier alnifolia/Thalictrum fendleri
 Populus tremuloides/Artemisia tridentata
 Populus tremuloides/Bromus carinatus
 Populus tremuloides/Calamagrostis rubescens
 Populus tremuloides/Crataegus douglasii-Symphoricarpos albus
 Populus tremuloides/Juniperus communis/Carex geyseri
 Populus tremuloides/Rubus parviflorus
 Populus tremuloides/Salix scouleriana
 Populus tremuloides/Shepherdia canadensis
 Populus tremuloides/Stipa comata
 Populus tremuloides/Symphoricarpos oreophilus/Bromus carinatus
 Populus tremuloides/Symphoricarpos oreophilus/Calamagrostis rubescens
 Populus tremuloides/Symphoricarpos oreophilus/Carex rossii
 Populus tremuloides/Symphoricarpos oreophilus/Tall Forb
 Populus tremuloides/Symphoricarpos oreophilus/Thalictrum fendleri
 Populus tremuloides/Tall Forb
 Populus tremuloides/Thalictrum fendleri
 Populus tremuloides/Wyethia amplexicaulis

I.B.2.N.d.

Seasonally/temporarily flooded cold-deciduous forest

Acer negundo/Cornus stolonifera
 Alnus rhombifolia/Amelanchier alnifolia
 Alnus rhombifolia/Betula occidentalis
 Alnus rhombifolia/Celtis reticulata
 Alnus rhombifolia/Philadelphus lewisii
 Alnus rhombifolia/Prunus virginiana
 Alnus rhombifolia/Rhus glabra
 Alnus rhombifolia/Rosa woodsii
 Alnus rhombifolia/Sambucus cerulea
 Alnus rubra/Adiantum pedatum
 Populus Trichocarpa/Recent Alluvial Bar †
 Populus angustifolia/Acer grandidentatum
 Populus angustifolia/Betula occidentalis
 Populus angustifolia/Chrysopsis villosa
 Populus angustifolia/Elaeagnus commutata
 Populus angustifolia/Rhus trilobata

- Populus tremuloides/Veratrum californicum
 Populus trichocarpa/Alnus incana ‡
 Populus trichocarpa/Cicuta douglasii
 Populus trichocarpa/Cornus stolonifera
 Populus trichocarpa/Crataegus douglasii ¶³
 Populus trichocarpa/Festuca idahoensis ¶
 Populus trichocarpa/Rhamnus alnifolia §
 Populus trichocarpa/Rosa woodsii ‡
 Populus trichocarpa/Salix lutea ‡
 Populus trichocarpa/Symphoricarpos albus §
- I.B.2.N.e. Seasonally flooded/saturated cold-deciduous forest
 Acer negundo/Equisetum arvense
 Populus tremuloides/Calamagrostis canadensis ‡
- I.C. Mixed Evergreen-Deciduous Forest
- I.C.3. Mixed Needle-leaved Evergreen - Cold-deciduous Forest
- I.C.3.N.a. Mixed needle-leaved evergreen - cold-deciduous forest
 Larix lyallii-Abies lasiocarpa
- II. Woodland
- II.A. Evergreen Woodland
- II.A.4. Temperate or Subpolar Needle-Leaved Evergreen Woodland
- II.A.4.N.a. Round-crowned evergreen woodland
 Juniperus occidentalis/Artemisia tridentata vaseyana
 Juniperus occidentalis/Cercocarpus ledifolius/Symphoricarpos oreophilus
 Juniperus osteosperma-Pinus monophylla/Artemisia tridentata vaseyana/Agropyron spicatum §
 Juniperus osteosperma-Pinus monophylla/Cercocarpus ledifolius/Agropyron spicatum §
 Juniperus osteosperma-Pinus monophylla/Prunus virginiana §
 Juniperus osteosperma/Agropyron spicatum ‡
 Juniperus osteosperma/Artemisia nova/Agropyron spicatum ‡
 Juniperus osteosperma/Artemisia nova/Poa secunda §
 Juniperus osteosperma/Artemisia tridentata ‡
 Juniperus osteosperma/Artemisia tridentata tridentata/Agropyron spicatum §
 Juniperus osteosperma/Artemisia tridentata vaseyana/Agropyron spicatum §
 Juniperus osteosperma/Purshia tridentata-Symphoricarpos oreophilus/Agropyron spicatum §
 Juniperus osteosperma/Purshia tridentata/Poa secunda §
 Pinus albicaulis (Timberline) §
 Pinus albicaulis-Abies lasiocarpa
 Pinus albicaulis/Carex geyeri
 Pinus albicaulis/Festuca idahoensis

- Pinus albicaulis/Juniperus communis
- Pinus albicaulis/Poa nervosa §
- Pinus contorta/Festuca idahoensis
- Pinus flexilis (Timberline) §
- Pinus flexilis/Cercocarpus ledifolius
- Pinus flexilis/Festuca idahoensis
- Pinus flexilis/Juniperus communis
- Pinus flexilis/Leucopoa kingii
- Pinus flexilis/Purshia tridentata ¶
- Pinus ponderosa/Agropyron spicatum
- Pinus ponderosa/Festuca idahoensis
- Pinus ponderosa/Festuca scabrella ‡
- Pinus ponderosa/Purshia tridentata
- Pinus ponderosa/Stipa comata
- Pinus ponderosa/Stipa occidentalis spp
- II.A.4.N.b. Conical-crowned evergreen woodland
 - Abies grandis/Calamagrostis rubescens
 - Pseudotsuga menziesii/Agropyron spicatum
 - Pseudotsuga menziesii/Cercocarpus ledifolius
 - Pseudotsuga menziesii/Festuca idahoensis
 - Pseudotsuga menziesii/Juniperus scopulorum §
 - Pseudotsuga menziesii/Leucopoa kingii §
- II.A.4.N.c. Cylindrical-crowned evergreen woodland
 - Abies lasiocarpa-Pinus albicaulis/Vaccinium scoparium
 - Abies lasiocarpa/Juniperus communis
- II.A.4.N.d. Seasonally/temporarily flooded evergreen woodland
 - Picea engelmannii/Cornus stolonifera
 - Pinus flexilis/Potentilla fruticosa/Distichlis spicata stricta §
 - Pinus ponderosa/Crataegus douglasii ¶
- II.B. Deciduous Woodland
- II.B.2. Cold-Deciduous Woodland
- II.B.2.N.a. Cold-deciduous woodland
 - Celtis reticulata/Agropyron spicatum
- II.B.2.N.b. Seasonally/temporarily flooded cold-deciduous woodland
 - Populus angustifolia/Cornus stolonifera
- III. Shrubland
- III.A. Evergreen Shrubland
- III.A.4. Microphyllous Evergreen Shrubland

III.A.4.N.a.

Microphyllous evergreen shrubland

Artemisia cana viscidula/Deschampsia cespitosa
 Artemisia cana viscidula/Festuca idahoensis
 Artemisia tridentata spiciformis/Bromus carinatus
 Artemisia tridentata spiciformis/Carex geeyeri
 Artemisia tridentata tridentata/Elymus cinereus
 Artemisia tridentata tridentata/Festuca idahoensis
 Artemisia tridentata tridentata/Poa secunda §
 Artemisia tridentata tridentata/Stipa comata
 Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Agropyron spicatum
 Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Bromus carinatus
 Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Carex geeyeri
 Artemisia tridentata vaseyana-Symphoricarpos oreophilus/Festuca idahoensis
 Artemisia tridentata vaseyana/Agropyron spicatum
 Artemisia tridentata vaseyana/Bromus carinatus
 Artemisia tridentata vaseyana/Elymus cinereus
 Artemisia tridentata vaseyana/Leucopoa kingii ‡
 Artemisia tridentata vaseyana/Poa secunda ¶
 Artemisia tridentata vaseyana/Stipa comata
 Artemisia tridentata wyomingensis/Carex filifolia §
 Artemisia tridentata wyomingensis/Elymus ambiguus salmonis §
 Artemisia tridentata wyomingensis/Festuca idahoensis §
 Artemisia tridentata wyomingensis/Poa secunda
 Artemisia tridentata wyomingensis/Sitanion hystrix
 Artemisia tridentata wyomingensis/Stipa comata
 Artemisia tridentata wyomingensis/Stipa thurberiana
 Artemisia tridentata xericensis/Agropyron spicatum
 Artemisia tridentata xericensis/Festuca idahoensis
 Cercocarpus ledifolius/Agropyron spicatum
 Cercocarpus ledifolius/Artemisia tridentata
 Cercocarpus ledifolius/Artemisia tridentata vaseyana ‡
 Cercocarpus ledifolius/Artemisia tridentata/Festuca idahoensis
 Cercocarpus ledifolius/Calamagrostis rubescens
 Cercocarpus ledifolius/Elymus ambiguus salmonis §
 Cercocarpus ledifolius/Elymus cinereus
 Cercocarpus ledifolius/Festuca idahoensis
 Cercocarpus ledifolius/Holodiscus dumosus §
 Cercocarpus ledifolius/Leucopoa kingii §

- Cercocarpus ledifolius/Symphoricarpos albus/Festuca idahoensis
 Cercocarpus ledifolius/Symphoricarpos oreophilus
 Chrysothamnus nauseosus/Elymus flavescens/Psoralea lanceolata ¶
 Purshia tridentata-Artemisia tridentata tridentata ¶
 Purshia tridentata-Chrysothamnus nauseosus ¶
 Purshia tridentata-Prunus virginiana ¶
 Purshia tridentata/Poa nevadensis §
- III.A.5. Extremely Xeromorphic Evergreen Shrubland
 III.A.5.N.b. Facultatively deciduous extremely xeromorphic subdesert subshrub
 Atriplex confertifolia/Agropyron spicatum §
 Atriplex confertifolia/Elymus ambiguus salmonis §
 Atriplex confertifolia/Oryzopsis hymenoides §
 Atriplex confertifolia/Sitanion hystrix §
- III.B. Deciduous Shrubland
 III.B.2. Cold-Deciduous Shrubland
 III.B.2.N.a. Temperate cold-deciduous shrubland
 Crataegus douglasii/Symphoricarpos albus
 Physocarpus malvaceus-Symphoricarpos albus
 Prunus virginiana/Artemisia tridentata vaseyana-Symphoricarpos oreophilus §
 Symphoricarpos albus-Rosa spp
- III.B.2.N.c. Seasonally/temporarily flooded cold-deciduous shrubland
 Betula occidentalis/Celtis reticulata
 Betula occidentalis/Crataegus douglasii §
 Betula occidentalis/Philadelphus lewisii §
 Betula occidentalis/Prunus virginiana
 Betula occidentalis/Purshia tridentata/Stipa comata §
 Crataegus douglasii/Heracleum lanatum
 Crataegus douglasii/Montia perfoliata ¶
 Philadelphus lewisii §
- III.B.2.N.d. Seasonally flooded/saturated cold-deciduous shrubland
 Alnus incana-Betula occidentalis/Salix exigua
 Alnus incana/Carex utriculata ‡
 Alnus incana/Cornus stolonifera
 Alnus incana/Mesic Forb
 Alnus incana/Mesic Graminoid
 Alnus incana/Ribes hudsonianum
 Alnus incana/Spiraea douglasii ‡
 Alnus sinuata

Alnus sinuata/Athyrium filix-femina ‡
 Alnus sinuata/Mesic Forb ‡
 Alnus sinuata/Montia cordifolia
 Betula occidentalis/Cornus stolonifera
 Betula occidentalis/Mesic Forb
 Betula papyrifera/Aralia nudicaulis ‡
 Cornus stolonifera ‡
 Cornus stolonifera/Galium trifolium
 Cornus stolonifera/Heracleum lanatum
 Potentilla fruticosa/Deschampsia cespitosa
 Rhamnus alnifolia
 Rosa woodsii ‡
 Salix bebbiana ‡
 Salix bebbiana/Mesic Graminoid
 Salix boothii/Mesic Forb
 Salix boothii/Mesic Graminoid
 Salix boothii/Poa palustris
 Salix boothii/Smilacina stellata
 Salix drummondiana ‡
 Salix drummondiana/Calamagrostis canadensis
 Salix exigua/Barren
 Salix exigua/Equisetum arvense
 Salix exigua/Mesic Forb
 Salix exigua/Mesic Graminoid
 Salix exigua/Rosa woodsii ‡
 Salix geyeriana/Deschampsia cespitosa
 Salix geyeriana/Geum macrophyllum
 Salix geyeriana/Mesic Forb
 Salix geyeriana/Mesic Graminoid
 Salix geyeriana/Poa palustris
 Salix lasiandra/Bench ‡
 Salix lasiandra/Mesic Forb ‡
 Salix lasiandra/Rosa woodsii ‡
 Salix lasiolepis/Barren
 Salix lutea
 Salix lutea/Bench ‡
 Salix lutea/Mesic Forb ‡
 Salix lutea/Rosa woodsii ‡

- Salix wolfii/Calamagrostis canadensis
 Salix wolfii/Deschampsia cespitosa
 Salix wolfii/Mesic Forb
 Salix wolfii/Poa palustris
- III.B.2.N.e. Saturated cold-deciduous shrubland
- Alnus incana/Athyrium filix-femina ‡
 Alnus incana/Equisetum arvense ‡
 Alnus incana/Lysichitum americanum ‡
 Betula glandulosa/Carex lasiocarpa §
 Betula glandulosa/Carex simulata
 Betula glandulosa/Carex utriculata ‡
 Betula glandulosa/Lonicera caerulea/Senecio pseud aureus
 Betula occidentalis ‡
 Salix boothii/Calamagrostis canadensis
 Salix boothii/Carex aquatilis
 Salix boothii/Carex nebraskensis
 Salix boothii/Carex utriculata
 Salix boothii/Equisetum arvense
 Salix candida/Carex utriculata ‡
 Salix commutata/Carex scopulorum
 Salix drummondiana/Carex utriculata ‡
 Salix eastwoodiae/Carex aquatilis
 Salix eastwoodiae/Carex utriculata
 Salix geeyeriana/Calamagrostis canadensis
 Salix geeyeriana/Carex aquatilis
 Salix geeyeriana/Carex utriculata
 Salix planifolia
 Salix planifolia monica/Carex aquatilis-Carex utriculata
 Salix planifolia monica/Carex scopulorum ‡
 Salix planifolia/Carex aquatilis
 Salix wolfii/Carex aquatilis
 Salix wolfii/Carex microptera
 Salix wolfii/Carex nebraskensis
 Salix wolfii/Carex utriculata
 Salix wolfii/Swertia perennis-Pedicularis groenlandica
 Spiraea douglasii ‡
- III.B.3. Extremely Xeromorphic Cold-Deciduous Shrubland

- III.B.3.N.a. Extremely xeromorphic cold-deciduous shrubland
Glossopetalon nevadensis/Agropyron spicatum
- III.B.3.N.b. Intermittently flooded extremely xeromorphic cold-deciduous shrubland
Sarcobatus vermiculatus/Distichlis spicata stricta
Sarcobatus vermiculatus/Elymus cinereus ‡
- IV. Dwarf-Shrubland
 - IV.A. Evergreen Dwarf-Shrubland
 - IV.A.1. Needle-Leaved or Microphyllous Evergreen Dwarf-Shrubland
 - IV.A.1.N.b. Creeping or matted needle-leaved or microphyllous evergreen dwarf-shrubland
Cassiope mertensiana-Phyllodoce empetriformis ‡
Cassiope mertensiana/Carex paysonis ‡
Cassiope mertensiana/Luetkea pectinata ‡
Eriogonum ovalifolium depressum Cinder Gardens ¶¶
Phyllodoce empetriformis/Antennaria lanata ‡
 - IV.A.1.N.g. Saturated needle-leaved or microphyllous evergreen dwarf-shrubland
Kalmia microphylla/Carex scopulorum ‡
Phyllodoce empetriformis-Ledum glandulosum
 - IV.A.2. Extremely Xeromorphic Dwarf-Shrubland
 - IV.A.2.N.a. Extremely xeromorphic evergreen subdesert dwarf-shrubland
Artemisia nova/Agropyron spicatum
Artemisia nova/Oryzopsis hymenoides ‡
Artemisia nova/Poa secunda §
Eriogonum spp-Physaria oregana
Eurotia lanata/Poa secunda
 - IV.B. Deciduous Dwarf-Shrubland
 - IV.B.2. Cold-Deciduous Dwarf-Shrubland
 - IV.B.2.N.b. Creeping or matted cold-deciduous dwarf-shrubland
Salix nivalis ¶¶
- V. Herbaceous
 - V.A. Perennial Graminoid Vegetation
 - V.A.5. Temperate or Subpolar Grassland
 - V.A.5.N.b. Tall bunch temperate grassland
Elymus cinereus
 - V.A.5.N.c. Medium-tall sod temperate or subpolar grassland
Agropyron smithii
 - V.A.5.N.d. Medium-tall bunch temperate or subpolar grassland
Agropyron spicatum-Festuca idahoensis
Agropyron spicatum-Melica bulbosa

- Agropyron spicatum-Poa secunda
 Agropyron spicatum-Poa secunda, Scabland
 Agropyron spicatum-Poa secunda/Balsamorhiza sagittata
 Agropyron spicatum/Eriogonum heracleoides
 Agropyron spicatum/Opuntia polyacantha
 Bromus spp/Stipa occidentalis
 Elymus ambiguus salmonis/Enceliopsis nudicaulis §
 Elymus ambiguus salmonis/Lupinus argenteus §
 Festuca idahoensis-Agropyron spicatum
 Festuca idahoensis-Carex geeyeri
 Festuca idahoensis-Carex hoodii
 Festuca idahoensis-Danthonia californica §
 Festuca idahoensis-Koeleria cristata
 Festuca idahoensis/Eriogonum caespitosum ¶¶
 Festuca idahoensis/Potentilla diversifolia ¶¶
 Festuca idahoensis/Rosa nutkana
 Festuca idahoensis/Symphoricarpos albus
 Festuca scabrella-Festuca idahoensis §
 Festuca viridula §
 Sporobolus cryptandra-Poa secunda
- V.A.5.N.f. Short bunch temperate or subpolar grassland
- Aristida longiseta/Poa secunda
 Carex stenophylla-Poa secunda §
- V.A.5.N.g. Short alpine or subalpine sod grassland
- Calamagrostis purpurescens
 Carex albonigra §
 Carex elynoides/Lupinus argenteus ¶¶
 Carex elynoides/Oxytropis sericea ¶¶
 Carex paysonis ¶¶
 Carex rupestris ¶¶
 Carex scirpoidea/Geum rossii ‡
 Carex scirpoidea/Potentilla diversifolia ‡
- V.A.5.N.h. Short alpine or subalpine dry bunch grassland
- Agropyron scribneri ¶¶
 Festuca idahoensis (Alpine)
 Juncus drummondii-Carex spp ¶¶
 Juncus parryi §
 Leucopoa kingii-Carex elynoides

- Leucopoa kingii-Poa cusickii
 Leucopoa kingii/Achillea millefolium
 Leucopoa kingii/Oxytropis compestris ‡
 Leucopoa kingii/Phlox pulvinata
 Poa epilis ¶
- V.A.5.N.i. Intermittently flooded temperate grassland
 Distichlis spicata stricta
 Elymus cinereus-Distichlis spicata stricta
- V.A.5.N.j. Seasonally/temporarily flooded temperate grassland
 Agrostis exarata-Agrostis scabra
 Carex nigricans ‡
 Carex nigricans-Agrostis humilis ¶
 Deschampsia cespitosa
 Deschampsia cespitosa/Caltha leptosepala ‡
 Deschampsia cespitosa/Potentilla diversifolia ¶
 Distichlis spicata stricta-Scirpus nevadensis ‡
 Festuca idahoensis-Danthonia intermedia-Carex
 Festuca idahoensis-Deschampsia cespitosa ‡
 Hordeum jubatum ‡
 Phragmites communis/Rhus radicans
 Spartina gracilis ‡
- V.A.5.N.k. Seasonally flooded/saturated temperate grassland
 Calamagrostis canadensis
 Carex aquatilis
 Carex buxbaumii Community Type
 Carex cusickii §
 Carex lanuginosa
 Carex lasiocarpa
 Carex limosa
 Carex microptera
 Carex nebraskensis
 Carex prae-gracilis-Carex aquatilis
 Carex scopulorum ‡
 Dulichium arundinaceum §
 Eleocharis acicularis ¶
 Eleocharis palustris (Wetland/Riparian)
 Eleocharis pauciflorus
 Eriophorum polystachion ‡

- V.A.5.N.l. Juncus balticus
Phalaris arundinacea ‡
Semipermanently flooded temperate grassland
Carex livida §
Carex utriculata
Carex vesicaria ‡
Eleocharis pauciflora-Carex aquatilis, Carex livida phase
Eleocharis rostellata Herbaceous Vegetation ‡
Glyceria borealis ‡
Phragmites australis ‡
Scirpus acutus ‡
Scirpus americanus ‡
Scirpus cespitosus-Carex livida
Scirpus maritimus ‡
Scirpus validus ‡
Typha latifolia
- V.A.5.N.m. Saturated temperate grassland
Carex aperta ‡
Carex simulata
- V.A.6. Temperate or Subpolar Grassland with a Tree Layer
- V.A.6.N.b. Tall temperate grassland with needle-leaved evergreen trees
Juniperus osteosperma-Pinus monophylla/Elymus cinereus §
- V.A.6.N.f. Medium-tall temperate or subpolar grassland with needle-leaved evergreen trees
Juniperus occidentalis/Agropyron spicatum
Juniperus occidentalis/Artemisia arbuscula/Festuca idahoensis
Juniperus occidentalis/Festuca idahoensis
Juniperus osteosperma/Elymus ambiguus salmonis §
Juniperus osteosperma/Stipa comata §
- V.A.7. Temperate or Subpolar Grassland with a Shrub Layer
- V.A.7.N.b. Tall temperate grassland with microphyllus evergreen shrubs
Purshia tridentata/Agropyron spicatum-Elymus cinereus ¶
- V.A.7.N.e. Medium-tall temperate or subpolar grassland with needle-leaved or microphyllus evergreen shrubs
Artemisia tridentata tridentata/Agropyron spicatum
Artemisia tridentata vaseyana/Carex geyeri
Artemisia tridentata vaseyana/Festuca idahoensis
Artemisia tridentata wyomingensis/Agropyron spicatum
Artemisia tripartita/Agropyron spicatum
Artemisia tripartita/Elymus cinereus §

- Artemisia tripartita/Festuca idahoensis
 Artemisia tripartita/Stipa comata
 Purshia tridentata/Agropyron spicatum
 Purshia tridentata/Festuca idahoensis
 Purshia tridentata/Stipa comata
 Sporobolus cryptandra
- V.A.7.N.g. Medium-tall temperate or subpolar grassland with cold-deciduous shrubs
 Potentilla fruticosa/Danthonia intermedia
 Potentilla fruticosa/Festuca idahoensis
 Rhus glabra/Agropyron spicatum
- V.A.7.N.j. Short temperate or subpolar grassland with microphyllus evergreen shrubs
 Artemisia cana bolanderi/Muhlenbergia richardsonis
- V.A.8. Temperate or Subpolar Grassland with a Dwarf-shrub Layer
- V.A.8.N.a. Short temperate or subpolar alpine grassland with needle-leaved or microphyllus evergreen dwarf-shrubs
 Artemisia arbuscula arbuscula/Agropyron spicatum
 Artemisia arbuscula arbuscula/Elymus ambiguus salmonis §
 Artemisia arbuscula arbuscula/Festuca idahoensis
 Artemisia arbuscula arbuscula/Poa secunda
 Artemisia arbuscula thermopola/Festuca idahoensis
 Artemisia longiloba/Festuca idahoensis
 Artemisia nova/Elymus ambiguus salmonis §
 Artemisia nova/Festuca idahoensis
 Dryas octopetala ¶
 Dryas octopetala-Polygonum viviparum ‡
 Dryas octopetala/Carex rupestris ‡
 Eriogonum douglasii/Poa secunda
 Eriogonum strictum/Poa secunda
- V.A.8.N.b. Seasonally flooded/saturated temperate or subpolar grassland with needle-leaved or microphyllus dwarf-shrubs
 Artemisia rigida/Poa secunda
- V.B. Perennial Forb Vegetation
- V.B.2. Temperate or Subpolar Forb Vegetation
- V.B.2.N.a. Tall temperate or subpolar forb vegetation
 Mertensia ciliata
 Phlox pulvinata/Poa epilis ¶
 Xerophyllum tenax §
- V.B.2.N.b. Low temperate or subpolar forb vegetation
 Chrysopsis villosa ¶
 Chrysopsis villosa/Sporobolus cryptandrus

	Geum rossii §
	Geum rossii/Arenaria obtusiloba ‡
	Ivesia gordonii-Arenaria obtusiloba ¶
	Ivesia gordonii-Eriogonum caespitosum ¶
	Potentilla diversifolia-Arenaria obtusiloba §
	Potentilla ovina/Agropyron scribneri
	Saxifraga oppositifolia §
V.B.2.N.c.	Seasonally/temporarily flooded temperate forb vegetation
	Artemisia ludoviciana ¶
	Caltha leptosepala
	Camassia cusickii
	Camassia quamash
	Lepidium davisii Vernal Pool
	Veratrum californicum
V.B.2.N.e.	Saturated temperate forb vegetation
	Equisetum fluviatile ‡
V.C.	Hydromorphic Rooted Vegetation
V.C.2.	Temperate or Subpolar Hydromorphic Rooted Vegetation
V.C.2.N.a.	Non-tidal temperate or subpolar hydromorphic rooted vegetation
	Nuphar polysepalum ‡
	Polygonum amphibium ‡

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1. § Formal data collection and analysis have not contributed to the recognition of this plant community element.
 2. ‡ 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.
 3. ¶ 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.