

## Bunchgrass Ridge Vascular Plant Species Found in Experimental Plots and Reference Meadows

Hab = habitat affinities of graminoids, herbs, and shrubs (M = meadow, F = forest, R = ruderal, — not classified)

### Grasses

Hab	Code*	Species <sup>§</sup>
<b>Gramineae</b>		
M	AGCAM	<i>Agropyron caninum</i> ssp. <i>majus</i>
M	AGRE	<i>Agropyron repens</i>
M	AGSC	<i>Agrostis scabra</i>
R	AGTE	<i>Agrostis tenuis</i>
M	BRCA	<i>Bromus carinatus</i>
F	BRVU	<i>Bromus vulgaris</i>
M	DAIN	<i>Danthonia intermedia</i>
M	ELGL	<i>Elymus glaucus</i>
M	FEID	<i>Festuca idahoensis</i>
F	FEOC	<i>Festuca occidentalis</i>
M	FEVI	<i>Festuca viridula</i>
F	MESU	<i>Melica subulata</i>
M	POPR	<i>Poa pratensis</i>
M	SIHY	<i>Sitanion hystrix</i>
M	STOC	<i>Stipa occidentalis</i>
F	TRCA	<i>Trisetum canescens</i>
F	TRCE	<i>Trisetum cernuum</i>

### Sedges and wood rushes

#### Cyperaceae

—	CADE	<i>Carex deweyana</i>
M	CAHA2	<i>Carex halliana</i>
M	CAHO	<i>Carex hoodii</i>
M	CAPA	<i>Carex pachystachya</i>
M	CAPE5	<i>Carex pensylvanica</i>

#### Juncaceae

R	LUCA2	<i>Luzula campestris</i>
---	-------	--------------------------

### Ferns

#### Polypodiaceae

F	ATFI	<i>Athyrium filix-femina</i>
F	DRAU2	<i>Dryopteris austriaca</i>
F	POMU	<i>Polystichum munitum</i>
M	PTAQ	<i>Pteridium aquilinum</i>

### Herbs, subshrubs, and low shrubs

#### Aristolochiaceae

F	ASCA3	<i>Asarum caudatum</i>
---	-------	------------------------

#### Berberidaceae

F	ACTR	<i>Achlys triphylla</i>
---	------	-------------------------

#### Boraginaceae

M	CRAF	<i>Cryptantha affinis</i>
M	HAMI	<i>Hackelia micrantha</i>

#### Campanulaceae

F	CASC2	<i>Campanula scouleri</i>
---	-------	---------------------------

#### Caprifoliaceae

F	LIBO2	<i>Linnaea borealis</i>
---	-------	-------------------------

### Herbs, subshrubs, and low shrubs (cont.)

Hab	Code*	Species <sup>§</sup>
<b>Caryophyllaceae</b>		
F	ARMA3	<i>Arenaria macrophylla</i>
M	CEAR	<i>Cerastium arvense</i>
M	CEVU	<i>Cerastium vulgatum</i>
M	STCA2	<i>Stellaria calycantha</i>
M	STCR	<i>Stellaria crispa</i>
M	STOB	<i>Stellaria obtusa</i>

#### Compositae

M	ACMI	<i>Achillea millefolium</i>
F	ADBI	<i>Adenocaulon bicolor</i>
M	AGAU	<i>Agoseris aurantiaca</i>
M	AGGL	<i>Agoseris glauca</i>
M	AGGR	<i>Agoseris grandiflora</i>
M	ANMA	<i>Anaphalis margaritacea</i>
M	ANMI2	<i>Antennaria microphylla</i>
M	ASLE2	<i>Aster ledophyllus</i>
M	ASOC	<i>Aster occidentalis</i>
M	ASRA	<i>Aster radulinus</i>
R	CIAR	<i>Cirsium arvense</i>
M	CICAO	<i>Cirsium callilepis</i> var. <i>oregonense</i>
R	CIVU	<i>Cirsium vulgare</i>
M	ERAL	<i>Erigeron aliceeae</i>
F	HAL	<i>Hieracium albiflorum</i>
M	HISC	<i>Hieracium scouleri</i>
F	LAMU	<i>Lactuca muralis</i>
R	MAGR	<i>Madia gracilis</i>
M	RUOC	<i>Rudbeckia occidentalis</i>
M	SETR	<i>Senecio triangularis</i>
M	SOCA	<i>Solidago canadensis</i>
R	TADF	<i>Taraxacum officinale</i>
R	TRDU	<i>Tragopogon dubius</i>

#### Cornaceae

F	COCA	<i>Cornus canadensis</i>
---	------	--------------------------

#### Cruciferae

M	ARABIS	<i>Arabis</i> sp.
M	ERAS	<i>Erysimum asperimum</i>

#### Ericaceae

—	ARNE	<i>Arctostaphylos nevadensis</i>
F	CHME	<i>Chimaphila menziesii</i>
F	CHUM	<i>Chimaphila umbellata</i>
F	PTAN	<i>Pterospora andromedea</i>
F	PYPI	<i>Pyrola picta</i>
F	PYSE	<i>Pyrola secunda</i>
M	VACA	<i>Vaccinium caespitosum</i>

#### Hydrophyllaceae

R	PHHE	<i>Phacelia heterophylla</i>
---	------	------------------------------

#### Iridaceae

M	IRCH	<i>Iris chrysophylla</i>
---	------	--------------------------

## Bunchgrass Ridge Vascular Plant Species Found in Experimental Plots and Reference Meadows

Hab = habitat affinities of graminoids, herbs, and shrubs (M = meadow, F = forest, R = ruderal, — not classified)

### Herbs, subshrubs, and low shrubs (cont.)

Hab	Code	Species
<b>Iridaceae (cont.)</b>		
M	SIAN	<i>Sisyrinchium angustifolium</i>
<b>Leguminosae</b>		
M	LALA2	<i>Lathyrus lanszwertii</i>
M	LANE	<i>Lathyrus nevadensis</i>
R	LOPU	<i>Lotus purshianus</i>
M	LULA	<i>Lupinus latifolius</i>
M	LULA2	<i>Lupinus laxiflorus</i>
M	VIAM	<i>Vicia americana</i>
<b>Labiatae</b>		
R	PRVU	<i>Prunella vulgaris</i>
—	SADO	<i>Satureja douglasii</i>
M	STRI	<i>Stachys rigida</i>
<b>Liliaceae</b>		
M	CASU6	<i>Calochortus subalpinus</i>
F	CLUN	<i>Clintonia uniflora</i>
F	DISPO	<i>Disporum hookeri / D. smithii</i>
M	FRLA	<i>Fritillaria lanceolata</i>
—	LICO4	<i>Lilium columbianum</i>
F	SMST	<i>Smilacina stellata</i>
F	TROV	<i>Trillium ovatum</i>
—	XETE	<i>Xerophyllum tenax</i>
<b>Malvaceae</b>		
M	SIOR	<i>Sidalcea oregana</i>
<b>Onagraceae</b>		
F	CIAL	<i>Circaea alpina</i>
M	EPALL	<i>Epilobium alpinum</i> var. <i>lactiflorum</i>
R	EPAN	<i>Epilobium angustifolium</i>
R	EPMI	<i>Epilobium minutum</i>
R	EPPA	<i>Epilobium paniculatum</i>
R	EPWA	<i>Epilobium watsonii</i>
<b>Orchidaceae</b>		
F	COMA3	<i>Corallorhiza maculata</i>
F	COME	<i>Corallorhiza mertensiana</i>
F	COST	<i>Corallorhiza striata</i>
F	GOOB	<i>Goodyera oblongifolia</i>
F	LICO3	<i>Listera cordata</i>
<b>Polemoniaceae</b>		
R	COHE	<i>Collomia heterophylla</i>
M	MIGR	<i>Microsteris gracilis</i>
M	PHDI	<i>Phlox diffusa</i>
<b>Polygonaceae</b>		
R	PODO	<i>Polygonum douglasii</i>
R	POMI2	<i>Polygonum minimum</i>
R	RUAC	<i>Rumex acetosella</i>
<b>Portulacaceae</b>		
M	CLLA	<i>Claytonia lanceolata</i>
R	MOPE	<i>Montia perfoliata</i>

### Herbs, subshrubs, and low shrubs (cont.)

Hab	Code	Species
<b>Portulacaceae (cont.)</b>		
R	MOSI	<i>Montia sibirica</i>
<b>Primulaceae</b>		
F	TRLA2	<i>Trientalis latifolia</i>
<b>Ranunculaceae</b>		
F	ACRU	<i>Actaea rubra</i>
F	ANDE	<i>Anemone deltoidea</i>
F	ANLY2	<i>Anemone lyallii</i>
F	ANOR	<i>Anemone oregana</i>
—	AQFO	<i>Aquilegia formosa</i>
M	DEME	<i>Delphinium menziesii</i>
—	RAUN2	<i>Ranunculus uncinatus</i>
<b>Rosaceae</b>		
M	FRVE	<i>Fragaria vesca</i>
M	FRVI	<i>Fragaria virginiana</i>
—	GEMA	<i>Geum macrophyllum</i>
M	PODR	<i>Potentilla drummondii</i>
M	POGL	<i>Potentilla glandulosa</i>
F	RULA	<i>Rubus lasiococcus</i>
F	RUNI	<i>Rubus nivalis</i>
F	RUUR	<i>Rubus ursinus</i>
<b>Rubiaceae</b>		
R	GAAP	<i>Galium aparine</i>
F	GAOR	<i>Galium oreganum</i>
F	GATR	<i>Galium triflorum</i>
<b>Santalaceae</b>		
M	COUM	<i>Comandra umbellata</i>
<b>Saxifragaceae</b>		
F	TITR	<i>Tiarella trifoliata</i>
<b>Scrophulariaceae</b>		
M	MIMO	<i>Mimulus moschatus</i>
M	ORIM	<i>Orthocarpus imbricatus</i>
M	PEPR	<i>Penstemon procerus</i>
M	VEAM	<i>Veronica americana</i>
R	VEOF	<i>Veronica officinalis</i>
M	VESEH	<i>Veronica serpyllifolia</i> var. <i>humifusa</i>
<b>Umbelliferae</b>		
M	ANAR	<i>Angelica arguta</i>
M	LOTR	<i>Lomatium triternatum</i>
F	OSCH	<i>Osmorhiza chilensis</i>
<b>Violaceae</b>		
F	VIGL	<i>Viola glabella</i>
M	VINU	<i>Viola nuttallii</i>
F	VIOR2	<i>Viola orbiculata</i>
<b>Tall shrubs and hardwood trees</b>		
<b>Aceraceae</b>		
F	ACCI	<i>Acer circinatum</i>

## Bunchgrass Ridge Vascular Plant Species Found in Experimental Plots and Reference Meadows

Hab = habitat affinities of graminoids, herbs, and shrubs (M = meadow, F = forest, R = ruderal, — not classified)

### Tall shrubs and hardwood trees (cont.)

Hab	Code	Species
<b>Berberidaceae</b>		
F	BEAQ	<i>Berberis aquifolium</i>
F	BENE	<i>Berberis nervosa</i>
<b>Caprifoliaceae</b>		
—	SACE	<i>Sambucus cerulea</i>
—	SARA	<i>Sambucus racemosa</i>
F	SYMO	<i>Symphoricarpos mollis</i>
<b>Compositae</b>		
M	HAGR	<i>Haplopappus greenei</i>
<b>Ericaceae</b>		
—	ARPA	<i>Arctostaphylos patula</i>
F	RHMA	<i>Rhododendron macrophyllum</i>
F	VAME	<i>Vaccinium membranaceum</i>
F	VAPA	<i>Vaccinium parvifolium</i>
<b>Fagaceae</b>		
—	CACH	<i>Castanopsis chrysophylla</i>
<b>Grossulariaceae</b>		
—	RICE	<i>Ribes cereum</i>
—	RILA	<i>Ribes lacustre</i>
—	RILO	<i>Ribes lobbii</i>
—	RIVI	<i>Ribes viscosissimum</i>
<b>Rhamnaceae</b>		
R	CEVE	<i>Ceanothus velutinus</i>
—	RHPU	<i>Rhamnus purshiana</i>

### Tall shrubs and hardwood trees (cont.)

Hab	Code	Species
<b>Rosaceae</b>		
F	AMAL	<i>Amelanchier alnifolia</i>
—	PREM	<i>Prunus emarginata</i>
—	PREM	<i>Prunus emarginata</i>
F	ROGY	<i>Rosa gymnocarpa</i>
R	RULE	<i>Rubus leucodermis</i>
—	RUPA	<i>Rubus parviflorus</i>
—	SOSI	<i>Sorbus sitchensis</i>
<b>Salicaceae</b>		
R	SASC	<i>Salix scouleriana</i>

### Coniferous trees

<b>Cupressaceae</b>		
—	CADE2	<i>Calocedrus decurrens</i>
—	JUCO4	<i>Juniperus communis</i>
<b>Pinaceae</b>		
—	ABAM	<i>Abies amabilis</i>
—	ABGR	<i>Abies grandis</i>
—	ABPR	<i>Abies procera</i>
—	PICO	<i>Pinus contorta</i>
—	PIMO	<i>Pinus monticola</i>
—	PSME	<i>Pseudotsuga menziesii</i>
—	TSHE	<i>Tsuga heterophylla</i>
—	TSME	<i>Tsuga mertensiana</i>
<b>Taxaceae</b>		
—	TABR	<i>Taxus brevifolia</i>

\* Species codes are from: Garrison, G.A., J.M. Skovlin, C.E. Poulton, and A.H. Winward. 1976. *Northwest plant names and symbols for ecosystem inventory and analysis*. USDA Forest Service General Technical Rep. PNW-GTR-046.

§ Nomenclature follows: Hitchcock, C.L., and A. Cronquist. 1973. *Flora of the Pacific Northwest*. University of Washington Press, Seattle.