

**VEGETATION SURVEY  
NREL NATIONAL WIND TECHNOLOGY CENTER  
SEPTEMBER 30, 2000**

**EXECUTIVE SUMMARY**

A vegetation survey was performed at the National Renewable Energy Laboratory's (NREL) National Wind Technology Center (NWTC) over the period of August 1999 through August 2000. The survey was performed with four primary objectives:

- 1) identify general habitats and plant communities,
- 2) survey and map noxious weeds on the site,
- 3) survey the site for sensitive plant communities, species, or species of concern, and
- 4) make management recommendations for the site based the survey results and emphasizing revegetation methods and techniques and weed control.

Five general habitats were described on the NWTC site, comprising nine plant communities and 271 vascular plant species. Three rare /or imperiled plant species have been found in the vicinity of the NWTC site. However, none were found in suitable habitat on the site. A small area of xeric tallgrass prairie (defined as mesic mixed grassland in this study) is located in the southwest corner of the NWTC site. This natural community is listed as rare and imperiled by the Colorado Natural Heritage program. This listing implies no legal designation or regulatory enforcement. It is made primarily for management planning purposes. This area of the NWTC site is not currently impacted by any research facilities or other disturbances.

Eleven noxious weed species were located on the NWTC site. Five of these are on the Colorado Noxious Weed Act list of prioritized-for-control weed species. Vegetation management recommendations made for the site specifically address the control of these species using Integrated Pest Management (IPM) techniques. Revegetation methods, techniques, and a site-specific seed mix are included in the vegetation management recommendations as well.

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## **1.0 Introduction**

This document presents the results of a vegetation survey at the National Renewable Energy Laboratory's (NREL) National Wind Technology Center (NWTC). The survey was conducted over an entire growing season in order to capture the maximum plant species diversity of the 280-acre NWTC site. Surveys activities began in the late summer/fall of 1999 and continued throughout the spring, summer, and fall of 2000.

This survey was performed with four primary objectives:

- Identification and characterization of all major plant communities on the site. This included compilation of a list of plant species located in each community over the course of the seasonal surveys,
- Special attention to potential habitat for sensitive plant communities, species, or species of special concern,
- Special attention to the locations and condition of noxious weeds, and the effects of concurrent weed management activities,
- Management recommendations to emphasize revegetation methods and techniques and weed control.

Section 2.0 of this document presents a description of field methods used in the survey. Section 3.0 discusses the survey results. References are listed in Section 4.0. Appendix A contains plant species lists, by community.

## **2.0 Survey Methods**

The National Wind Technology Center (NWTC) site was visited on numerous occasions throughout the late 1999, and entire 2000, growing seasons. Major habitat types on the site were defined using recent aerial photos and topographic maps, site orientation by the technical monitor, and site reconnaissance. Each habitat type was ground-truthed and determined to comprise one or more plant communities; each defined by floristic and physiognomic characteristics. When appropriate, habitat and community classifications follow those used by the neighboring Rocky Flats Environmental Technology Center (RFETS).

Parallel transects were walked through each defined plant community during site visits. Plant species encountered in each transect were recorded on running lists maintained for each community. These lists include the appropriate Latin binomial (and any common synonymy), common name, family, origin (native/introduced), seasonality (for grasses), and life form for each plant species. Complete community plant species lists are located in Appendix A.

Plants were field-identified to the lowest taxon possible. If necessary, specimens are sampled for further lab identification. Some specimens were taken to the University of Colorado herbarium for identification confirmation. Taxonomic authority for this study is Weber (1990) and Weber and Whittmann (1992). Binomial synonymies are also listed following the Great

Plains Flora Association (1986) as this is used as the taxonomic authority on the extensive RFETS plant species list.

Representative photographs of all plant communities were collected during the fall 1999 field survey period. The same sites were photographed during the mid-summer, 2000 survey.

The Colorado Natural Heritage database was searched for sensitive or species of concern that potentially occur in the vicinity of the NWTC site. Species considered sensitive include those legally designated for protection by either the U.S. Fish and Wildlife Service (Endangered Species Act) or the Colorado Division of Wildlife, as well as species considered sensitive by the U.S. Forest Service, the Bureau of Land Management, or the Colorado Natural Heritage Database.

Surveys for specific sensitive species deemed potentially present on the site were conducted in appropriate habitat throughout the site. These surveys were timed to occur when individual species were most likely to be visible.

Locations of noxious weed populations were noted during the spring and early summer surveys and recorded on site maps. Very small populations, or those far from roads or building sites, were noted as such and marked with pin flags in the field. A copy of the weed map was provided to Brian Burnett, Tabor Management Services prior to herbicide treatment applications in May, 2000.

### **3.0 Survey Results**

#### ***3.1 Habitat Classification and Plant Community Definitions***

The NWTC site is located in the transition area between the Great Plains and the Rocky Mountains (Clark, *et al*, 1980). This location results in a flora that contains elements from both mountain and prairie ecosystems and associations that represent residual tall grass prairie, short-grass plains, ponderosa pine woodland, and foothill ravine flora (Weber *et al*, 1974).

These diverse floristic associations are represented in the five major habitat types defined on the NWTC site during the course of this survey. Each habitat comprises one or more plant communities. A plant community can be considered a group of plant species associated with a physical location that integrates and reflects local soil type, moisture regime, microclimate, slope, aspect, elevation, and temperature (Mueller-Dombois and Ellenberg, 1974). Moisture availability and surface disturbance were found to be the two dominant factors controlling vegetation distribution on the RFETS site, immediately to the south of the study site (Clark, *et al*, 1980). This appears to be the case at the NWTC site as well and is reflected in the defined plant communities. All habitats and communities are summarized in Table 3.1 and discussed below.

Table 3.1. Major habitat types and associated plant communities at the NREL National Wind Technology Center.

Habitat Type	Associated Plant Communities
Seasonal Wetlands/or Ephemeral Hydric Soils	Cattail seeps Ephemeral drainages Seasonal pond Hillside seeps
Woodlands	Ponderosa pine woodland
Shrublands	Upland shrubland
Mixed Grasslands	Xeric mixed grassland Mesic mixed grassland
Disturbed Areas	Roadsides, buildings, pad sites, parking lot, construction/storage sites

A total of 271 vascular plant species were identified among all of the defined plant communities on the NWTC site during the course of this survey. While this is a large value, it may not completely represent the total species diversity of the site due to the unusually dry conditions over the August 1999 to August 2000 survey period. Species lists for each plant community are located in Appendix A.

### 3.1.1 Mixed grasslands

Most of the vegetation on the NWTC site belongs to the mixed prairie association of the grassland formation (Weaver and Clements, 1938). Mixed prairie is defined by the presence of grass species typical of the tall grass or true prairie such as big bluestem (*Andropogon gerardii*), little bluestem (*Schizachyrium scoparium*), and prairie dropseed (*Sporobolus heterolepis*), with species more typical of the short-grass prairie such as blue grama (*Chondrosum gracile*) and buffalo grass (*Buchloe dactyloides*). Intermediate grasses (mid-grasses) such as the needle grasses (*Stipa* spp.), wheat grasses (*Pascopyron*, *Agropyron*, *Elytrigia*, and *Elymus* spp.) and blue grasses (*Poa* spp.) are also important constituents of mixed grass prairie.

The grasslands on the NWTC site are composed of a mosaic of smaller vegetation units that could be delineated and defined based on the presence of two to five key plant species. However, for the purposes of this survey, the grasslands are divided into two large community

types, identified and classified primarily on available soil moisture reflected in different plant species assemblages, xeric mixed grassland and mesic mixed grassland.

#### Xeric Mixed Grassland

Xeric mixed grassland is by far the largest and most widespread community type on the NWTC site. These areas appear to have less access to regular soil moisture (xeric conditions) than the mesic grassland areas and are dominated by typical short- and mixed- prairie species. A total of 140 plant species were identified in this grassland community. These include a large number of native grasses as well as a typical and diverse forb component.

#### Mesic Mixed Grassland

The mesic mixed grassland occupies limited areas with higher soil moisture (mesic conditions) and is dominated by tall-grass prairie species, most notably big bluestem. This grassland occurs along the perimeter of the cattail seep community, near the southern fence line, between Rows 1 and 2. Thirty-seven plant species were identified in this community. The area is heavily dominated by large patches of big bluestem. As in the cattail seeps, the role of soil moisture in the health and continuity of these communities was clearly noted during the survey period. In the August of 1999, these grass patches were observed to be over six feet tall and so dense with blooming stems that they were hard to walk through. Following the severe drought conditions of the 2000 growing season, these patches were much thinner and could be stepped over. Relatively few individuals bloomed in 2000 and the community was dominated by large patches of annual weeds.

#### **3.1.2 Woodlands**

One woodland habitat, defined by a single community, the ponderosa pine (*Pinus ponderosa*) woodland, occurs in the northwest corner of the site along a granite outcrop. It has been speculated that this forested habitat may represent remnants of a widespread pine forest that once occupied this entire area prior to human timbering and burning (Clark, *et al*, 1980). This small area supports a very diverse native plant community of 105 identified plant species which includes common grassland and foothills species, as well as a number of introduced and noxious weeds. At the beginning of the 2000 growing season, the most dense and widespread diffuse knapweed (*Centaurea diffusa*) population on the NWTC site occurred among the tress in this habitat. The largest and most dense population of sulfur cinquefoil (*Potentilla recta*) on the site occurs along the northeast flank of this community.

#### **3.1.3 Shrublands**

A small upland shrub community is located to the southeast of the ponderosa pine woodland, where the same ridge arises to a lesser degree from the surrounding grassland community. This small area contains 74 identified plant species. This community is dominated by shrub species, interspersed with grasses and forbs representative of the surrounding grasslands.

#### **3.1.4 Seasonal Wetlands/ Ephemeral Hydric Soils**

Several small plant communities exist on the site in areas of relatively elevated soil moisture (hydric conditions) for at least part of the growing season. All of these communities appear to depend on at least some contact with subsurface, as well as surface, water for their

continuation. The four communities that comprise this habitat type include cattail seeps, ephemeral drainages, hillside seeps, and a seasonal pond.

#### Cattail Seeps

Two small areas on the site are dominated by cattails (*Typha* spp.). The largest of these is located in the southwest corner of the site, between Row 1 and Row 2. The smaller cattail seep area is directly across the main road from Building 255. As cattails require more consistent soil moisture conditions than the surrounding grassland, these populations indicate a perennial source of soil moisture, probably through subsurface as well as surface drainage, in these areas. The seeps in the southwest corner grade into surrounding lush mesic mixed grassland. The smaller roadside area to the north is surrounded by xeric mixed grassland. This small area occurs in a depression that appears to be the result of soil excavation that intercepted sufficient subsurface water to support the cattail population.

Both cattail seep areas appeared to be considerably drier through the 2000 growing season than they were in the fall of 1999. This may have resulted in a reduced number of plant species identified during the 2000 survey. A total of 35 plant species were identified in these small communities. This community is dominated by common and narrow-leaved cattail (*Typha latifolia* and *Typha angustifolia*) and other primarily wetland plant species.

#### Ephemeral Drainages

There are three surface drainages on the NWTC site. The two smaller drainages occur in the northwest corner (flowing north) and the northeast corner (flowing northeast). All three show evidence of intermittent surface flow. Surface flow in the drainage to the northeast appears to be augmented by outflow from the hillside seep areas on the western banks. The third and largest drainage conducts surface flows through the center of the site off to the eastern fence line. The upper reaches of this drainage are a shallow grassland swale that begins between Rows 3 and 4. This channel deepens as it flows east across the site. At its eastern reaches, this drainage clearly intercept subsurface water, although not in sufficient quantities to produce consistent surface flow. At the point where this drainage leaves the NWTC site, a human-constructed rock wall protects a small seep. This seep provided sufficient water to create a very narrow, low energy surface flow observed throughout the survey period. The surrounding area supports wetland plant species not found anywhere else on the NWTC site.

A total of 120 plant species were identified in the ephemeral drainages on the NWTC site. This community is an interesting mixture of typically grassland species with those most often found in wetland or riparian areas, as well as introduced species and some noxious weeds.

#### Hillside seeps

This very small community occurs on the banks of the northeast corner drainage. This community is a clearly demarcated area of primarily wetland plants amidst the surrounding grassland. Fifty plant species were identified in this community, many of which also occur in the ephemeral drainages.

### Seasonal Pond

A seasonal pond and pond margin occur at the northwest corner of the site, west of the southern terminus of the ponderosa pine woodland. This area appears to depend on an elevated spring and early summer water table for the hydric soil moisture conditions that support this community. Observers have noted that the pond depression often contains standing water in the spring and early summer in some years. The observations of the plant community during the late summer/ fall survey suggest that this was the case in 1999. However, no standing water was observed in this area during the spring/early summer 2000 survey. These drier soil conditions are reflected in shift of dominant plant species in this community between the two survey periods. A large number of annual weedy plants were present in the seasonal pond community during the 2000 growing season that were barely noted in the late summer of 1999.

### **3.1.5 Disturbed Areas**

The final habitat type includes plant associations that reflect surface disturbance due to human activities on the site. These areas include roadsides, buildings, pad sites, parking lot perimeters, construction sites, and storage areas. Many of these areas have been revegetated. These areas contain 102 identified plant species. These include a combination of species from surrounding natural plant communities, reclamation species, and adventive (non-native) or ruderal (native or non-native, disturbance colonizer) species.

### **3.2 Noxious Weeds**

Eleven plant species listed on the State of Colorado Noxious Weed List were located and mapped on the NWTC site (Table 3.2). Five of these are recognized as belonging to the top ten prioritized-for-control weed species in Colorado due to being the most widespread and causing the greatest economic impact. The presence, and potential spread, of these species represents the largest threat to the community stability and native plant species diversity on the site.

Table 3.2 Noxious weed species identified on the NREL National Wind Technology Center site, listed alphabetically by common name. Species in bold font are on the ten prioritized-for-control weed species for Colorado. Species denoted by an asterisk were found in extremely small populations of one to a few individual plants.

<b>Common Name</b>	<b>Scientific Binomial</b>
<b>Canada thistle</b>	<b><i>Cirsium arvense</i></b>
Common mullein	<i>Verbascum thapsus</i>
Common St. Johnswort	<i>Hypericum perforatum</i>
Common teasel*	<i>Dipsacus fullonum</i> *
Dalmatian toadflax	<i>Linaria dalmatica</i>
<b>Diffuse knapweed</b>	<b><i>Centaurea diffusa</i></b>
<b>Hoary cress*</b>	<b><i>Cardaria draba</i></b> *
Houndstongue	<i>Cynoglossum officinale</i>
<b>Leafy spurge</b>	<b><i>Euphorbia esula</i></b>
<b>Musk thistle</b>	<b><i>Carduus nutans</i></b>
Sulfur cinquefoil	<i>Potentilla recta</i>



Weeds throughout the NWTC occur as a range of population sizes. Some of the weed species occur as single patches that comprise only a few plants. Other species occur in large and established populations. Yet other species occur as individuals, or very small patches, distributed in a scattered pattern across the entire site. Regardless of the population sizes, the presence of these weeds indicates favorable conditions for weed invasion in the survey area. As all of the weed species identified are listed, in part, due to their ability to rapidly establish large populations, it is not reasonable to expect that even the small patches will remain static in terms of their size for any length of time.

### **3.3 Sensitive Species**

A search of the Colorado Natural Heritage Program (CNHP) database resulted in the listed occurrences of four rare/or imperiled plant species and one rare/imperiled natural community in the vicinity of the NWTC site (Table 3.3). Of these, only the xeric tallgrass community has known occurrences in the same Section as the site.

The xeric tallgrass prairie natural community (*Andropogon gerardii* – *Schizachyrium scoparium*) does occur on the NWTC site in areas defined as mesic mixed grassland. This small community occurs in an isolated area in the southwest corner of the site between Row 1 and Row 2. It does not appear to be currently impacted by research facilities or construction activities.

The CNHP assigns individual species, or natural communities, a rank that indicates its relative degree of imperilment on a five point scale (from 1 = critically imperiled to 5 = relatively secure). The primary ranking criterion is the number of known locations within the State of Colorado (S-rank) and over the species or community's entire range (G or Global rank). The CNHP assigns the xeric tallgrass prairie community a state rank of S2. This means the community is considered rare in the state (6 to 20 occurrences) or because other factors make it very vulnerable to extirpation from the state. The CNHP assigns the xeric tallgrass prairie community a global rarity rank of G2. This means the community is considered to be imperiled globally because of rarity (6 to 20 occurrences) or because other factors make it very vulnerable to extinction throughout its range (CNHP, 1996).

These rankings, and consequent listing as rare or imperiled, impose no legal designation or regulatory controls. They have been designated primarily for conservation and management planning purposes. The presence of this plant community on the NWTC site implies good land conditions and high quality stewardship. To continue managing the NWTC site for maintenance of plant species and community diversity, it is highly recommended that this area of mesic mixed grassland be avoided during future construction projects.

Three of the four reported plant species, forktip three-awn (*Aristida basiramea*), dwarf leadplant (*Amorpha nana*), and Ute ladies'-tresses (*Spiranthes diluvialis*) are known to occur in similar grassland habitat on the RFETS site to the south. Specific suitable habitat for the Ute ladies'-tresses, as described in U.S. Fish and Wildlife Service (USFWS, 1992) guidelines

does appear to occur on the NWTC site. Prairie violet (*Viola pedatifida*) occurs in the general vicinity, also in habitat similar to the xeric mixed grassland community on the NWTC site.

Surveys for the prairie violet were conducted in the spring of 2000 in suitable areas with rocky soils or outcrops throughout the ponderosa pine woodland, shrubland, and xeric mixed grassland communities. No prairie violet plants were located.

Surveys for dwarf leadplant were conducted during the entire survey period in appropriate areas in the hillside seep and ephemeral drainage communities. Surveys for forktip three-awn was conducted over the entire survey period in areas of suitable habitat in the xeric grassland and disturbed area communities. No dwarf leadplant, not forktip three-awn, plants were located.

The official survey period for the Ute ladies'-tresses orchid in Colorado is July 20 through August 31. Surveys for this plant were conducted in appropriate areas in the hillside seep and ephemeral drainage communities during this period of the 2000 growing season. No Ute ladies'-tresses orchid plants were located on the NWTC site during this period. The NWTC site falls within the geographical range of Ute ladies'-tresses. However, the hillside seep and ephemeral drainage communities appear to support vegetation that may be too dense, and moisture conditions that may be too intermittent, for optimal Ute ladies'-tresses habitat.

Table 3.3 Potential Rare and/or Imperiled Plant Species and Natural Communities at the NREL National Wind Technology Center site. Natural Heritage ranks are standardized across the Heritage Program network and are assigned for global (G) and state (S) levels of rarity. They range from a 1 classification for critically imperiled or extremely rare elements, to 5 for those that are demonstrably secure (CNHP, 1996).

Common Name	Binomial	Status	Description	Potential Habitat	Potential NWTC Community
Forktip Three-awn	<i>Aristida basiramea</i>	G5 S1	Grass Family. Annual grass that blooms in late summer. Central awn is longer and spirally coiled at the base.	Disturbed or sandy soils and sandstone outcrops	Xeric mixed grassland Tall upland shrubland
Dwarf leadplant	<i>Amorpha nana</i>	G5 S2S3	Pea Family. Small shrub with long inflorescences of aromatic purple flowers. Leaves with numerous visible resin glands.	Dry prairie, most often on north-facing slopes.	Xeric mixed grassland
Ute ladies'-tresses	<i>Spiranthes diluvialis</i>	US:LT G2 S2	Orchid Family. Many small, white flowers spiral along top few inches of foot-tall flowering stalks from a rosette of linear basal leaves.	Requires wet conditions, often in areas with subsurface water, usually over gravel soils, in lush, grassy meadows little overstory	Grassland swale Ephemeral drainage
Prairie violet	<i>Viola pedatifida</i>	G5 S2	Violet family Low plant with leaves dissected in narrow lobes. Blue-violet flowers. Flowers in early spring to June.	Prairies and open woodlands on rocky soils	Ponderosa pine woodland Upland shrubland Xeric mixed grassland

Table 3.3 (continued) Potential Rare and/or Imperiled Plant Species and Natural Communities at the NREL National Wind Technology Center site. Natural Heritage ranks are standardized across the Heritage Program network and are assigned for global (G) and state (S) levels of rarity. They range from a 1 classification for critically imperiled or extremely rare elements, to 5 for those that are demonstrably secure (CNHP, 1996).

<b>Common Name</b>	<b>Binomial</b>	<b>Status</b>	<b>Description</b>	<b>Potential Habitat</b>	<b>Potential NWTC Community</b>
Xeric tallgrass prairie	<i>Andropogon gerardii</i> / <i>Schizachyrium scoparium</i>	G2 S2	Tall grass prairie relic association. Probably persist in mesic areas on high mesas since last glacier retreat.	Mesic locations and swales	Mesic mixed grassland

#### 4.0 References

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**APPENDIX A**

Plant Community Species Lists

NREL National Wind Technology Center

## **NREL National Wind Technology Center Plant Community Species Lists**

### **Legend to classification codes:**

#### Origin:

Refers to origin of species

N Native to the Front Range area

I Introduced or exotic species

#### Season:

Refers to blooming/production season for grass species

C cold season (spring/early summer)

W warm season (mid to late summer)

#### Life form:

Refers to life form/strategy of species

AF annual forb

BF biennial forb

PF perennial forb

AG annual grass/graminoid (includes rushes and sedges)

PG perennial grass/graminoid (includes rushes and sedges)

SU succulent

SS subshrub

S shrub

T tree

V vine

**Plant Species List**  
**Cattail Seeps**  
**NREL National Wind Technology Center**

<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Cardamine breweri</i>		Bittercress	Brassicaceae - Mustard Family	N	NA	PF
<i>Neolepia campestre</i>	<i>Lepidium campestre</i>	Fieldcress	Brassicaceae - Mustard Family	I	NA	BF
<i>Symphoricarpos occidentalis</i>		Western snowberry	Caprifoliaceae - Honeysuckle Family	N	NA	S
<i>Carex nebrascensis</i>		Nebraska sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Eleocharis palustris</i>		Spike-rush	Cyperaceae - Sedge Family	N	NA	PG
<i>Scirpus pallidus</i>		Bulrush	Cyperaceae - Sedge Family	N	NA	PG
<i>Juncus arcticus</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus balticus</i>		Baltic rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus effusus</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus longistylis</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus tenuis</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus torreyi</i>		Torrey's rush	Juncaceae - Rush Family	N	NA	PG
<i>Marrubium vulgare</i>		Horehound	Lamiaceae - Mint Family	I	NA	PF
<i>Mentha arvensis</i>		Fieldmint	Lamiaceae - Mint Family	N	NA	PF
<i>Epilobium ciliatum</i>		Willow herb	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Oenothera villosa</i>		Common evening-primrose	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Polypogon monspeliensis</i>		Rabbitfoot grass	Poaceae - Grass Family	I	W	AG
<i>Schizachyrium scoparium</i>	<i>Andropogon scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Geum aleppicum</i>		Avens	Rosaceae - Rose Family	N	NA	PF
<i>Padus virginiana</i>	<i>Prunus virginiana</i>	Chokecherry	Rosaceae - Rose Family	N	NA	S
<i>Galium aparine</i>		Catchweed bedstraw	Rubiaceae - Madder Family	I	NA	AF
<i>Populus angustifolia</i>		Narrowleaf cottonwood	Salicaceae - Willow Family	N	NA	T
<i>Salix amygdaloides</i>		Peach-leaf willow	Salicaceae - Willow Family	N	NA	T



**Plant Species List  
Cattail Seeps  
NREL National Wind Technology Center**

<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Salix exigua</i>		Sandbar willow	Salicaceae - Willow Family	N	NA	S
<i>Veronica peregrina</i>		Purslane speedwell	Scropulariaceae - Figwort Family	N	NA	AF
<i>Typha latifolia</i>		Common cattail	Typhaceae - Cattail Family	N	NA	PF
<i>Typha angustifolia</i>		Narrow-leaved cattail	Typhaceae - Cattail Family	N	NA	PF

**Plant Species List  
Ehemeral Drainages  
NREL National Wind Technology Center**

<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Lomatium orientale</i>		Lomatium	Apiaceae - Parsley Family	N	NA	PF
<i>Asclepias speciosa</i>		Showy milkweed	Asclepiadaceae - Milkweed Family	N	NA	PF
<i>Achillea lanulosa</i>		Yarrow	Asteraceae - Sunflower Family	N	NA	PF
<i>Ambrosia psilostachya</i>		Western ragweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Arnica fulgens</i>		Arnica	Asteraceae - Sunflower Family	N	NA	PF
<i>Artemisia ludoviciana</i>	<i>Populus deltoides</i>	Prairie sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster ericoides</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Brickellia eupatorioides</i>		Brickellia	Asteraceae - Sunflower Family	N	NA	PF
<i>Carduus nutans</i>		Musk thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Cichorium intybus</i>		Chicory	Asteraceae - Sunflower Family	I	NA	PF
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Erigeron divergens</i>		Spreading fleabane	Asteraceae - Sunflower Family	N	NA	BF
<i>Gaillardia aristata</i>		Blanketflower	Asteraceae - Sunflower Family	N	NA	PF
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Liatris punctata</i>		Dotted gayfeather	Asteraceae - Sunflower Family	N	NA	PF
<i>Onopordum acanthium</i>		Scotch thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Senecio crassulus</i>		Butterweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Senecio integerrimus</i>		Grounsel	Asteraceae - Sunflower Family	N	NA	BF/PF
<i>Solidago missouriensis</i>		Prairie goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Tragopogon dubius</i>		Goatsbeard	Asteraceae - Sunflower Family	I	NA	BF
<i>Cynoglossum officinale</i>		Houndstongue	Boraginaceae - Borage Family	I	NA	BF
<i>Nasturtium officinale</i>		Watercress	Brassicaceae - Mustard Family	I	NA	PF
<i>Neolepia campestre</i>	<i>Lepidium campestre</i>	Fieldcress	Brassicaceae - Mustard Family	I	NA	BF
<i>Noccaea montana</i>		Wild candytuft	Brassicaceae - Mustard Family	N	NA	AF
<i>Rorippa sinuata</i>		Spreading yellowcress	Brassicaceae - Mustard Family	N	NA	PF
<i>Sisymbrium altissimum</i>		Tumbling mustard	Brassicaceae - Mustard Family	I	NA	AF
<i>Thlaspi arvense</i>		Fanweed	Brassicaceae - Mustard Family	I	NA	AF
<i>Opuntia macrorhiza</i>		Plains prickly pear	Cactaceae - Cactus Family	N	NA	SU
<i>Campanula rotundifolia</i>		Common harebell	Campanulaceae - Bellflower Family	N	NA	PF
<i>Lobelia siphilitica</i>		Blue cardinal flower	Campanulaceae - Bellflower Family	N	NA	PF

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Scientific Binomial	Synonymy	Common Name	Family	Origin	Season	Life Form
<i>Symphoricarpos occidentalis</i>		Western snowberry	Caprifoliaceae - Honeysuckle Family	N	NA	S
<i>Saponaria officinalis</i>		Bouncing Bet	Caryophyllaceae - Pink Family	I	NA	PF
<i>Tradescantia occidentalis</i>		Spiderwort	Commelinaceae - Spiderwort Family	N	NA	PF
<i>Maianthemum stellatum</i>	<i>Smilacina stellata</i>	False solomon's seal	Convallariaceae - Mayflower Family	N	NA	PF
<i>Convolvulus arvensis</i>		Field bindweed	Convolvulaceae - Morning Glory Family	I	NA	PF
<i>Carex hystricina</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex languinosa</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex nebrascensis</i>		Nebraska sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex utriculata</i>	<i>Carex rostrata</i>	Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Eleocharis palustris</i>		Spike-rush	Cyperaceae - Sedge Family	N	NA	PG
<i>Dalea purpurea</i>	<i>Petalostemon purpurea</i>	Purple prairie clover	Fabaceae - Pea Family	N	NA	PF
<i>Glycyrrhiza lepidota</i>		American licorice	Fabaceae - Pea Family	N	NA	PF
<i>Lupinus argenteus</i>		Silver lupine	Fabaceae - Pea Family	N	NA	PF
<i>Medicago sativa</i>		Alfalfa	Fabaceae - Pea Family	I	NA	PF
<i>Melilotus officinalis</i>		Yellow sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Psoraleidum tenuiflora</i>		Slimflower scurfpea	Fabaceae - Pea Family	N	NA	PF
<i>Thermopsis rhombifolia</i>		Prairie goldenpea	Fabaceae - Pea Family	N	NA	PF
<i>Ribes aureum</i>		Golden current	Grossulariaceae - Current Family	N	NA	S
<i>Phacelia heterophylla</i>	<i>Phacelia hastata</i>	Scorpionweed	Hydrophyllaceae - Waterleaf Family	N	NA	PF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort family	I	NA	PF
<i>Iris missouriensis</i>		Wild iris	Iridaceae - Iris Family	N	NA	PF
<i>Carex simulata</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus articulatus</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus balticus</i>		Baltic rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus bufonius</i>		Toad rush	Juncaceae - Rush Family	N	NA	AG
<i>Juncus effusus</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus ensifolius</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus longistylis</i>		Rush	Juncaceae - Rush Family	N	NA	PG

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<i>Juncus nodosus</i>		Knotted rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus</i> sp.		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Marrubium vulgare</i>		Horehound	Lamiaceae - Mint Family	I	NA	PF
<i>Mentha arvensis</i>		Fieldmint	Lamiaceae - Mint Family	N	NA	PF
<i>Monarda fistulosa</i>		Bee balm	Lamiaceae - Mint Family	N	NA	PF
<i>Nepeta cataria</i>		Catnip	Lamiaceae - Mint Family	I	NA	PF
<i>Lemna turionifera</i>		Duckweed	Lemnaceae - Duckweed Family	N	NA	PF
<i>Calylophus serrulatus</i>		Shrubby evening-primrose	Onagraceae - Evening-primrose Family	N	NA	SS
<i>Epilobium cilatum</i>		Willow herb	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Gaura parviflora</i>		Smallflower gaura	Onagraceae - Evening-primrose Family	N	NA	AF
<i>Oenothera villosa</i>		Common evening-primrose	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Oxalis dillenii</i>		Woodsorrel	Oxalidaceae - Woodsorrel Family	N	NA	PF
<i>Argemone polyanthemus</i>		Prickly poppy	Papaveraceae - Poppy Family	N	NA	PF
<i>Pinus ponderosa</i>		Ponderosa pine	Pinaceae - Pine Family	N	NA	T
<i>Plantago lanceolata</i>		English plantain	Plantaginaceae - Plantain Family	I	NA	PF
<i>Plantago major</i>		Common plantain	Plantaginaceae - Plantain Family	I	NA	PF
<i>Agropyron cristatum</i>		Crested wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Agrostis gigantea</i>	<i>Agrostis alba</i>	Redtop	Poaceae - Grass Family	I	C	PG
<i>Agrostis scabra</i>		Ticklegrass	Poaceae - Grass Family	N	W	PF
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth brome grass	Poaceae - Grass Family	I	C	PG
<i>Buchloë dactyloides</i>		Buffalograss	Poaceae - Grass Family	N	W	PG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Dactylis glomerata</i>		Orchard grass	Poaceae - Grass Family	I	C	PG
<i>Danthonia spicata</i>		Poverty oatgrass	Poaceae - Grass Family	N	C	PG

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<i>Elymus canadensis</i>		Canada wild rye	Poaceae - Grass Family	N	C	PG
<i>Elymus trachycaulus</i>	<i>Agropyron caninum</i>	Slender wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Festuca pratensis</i>		Meadow fescue	Poaceae - Grass Family	I	C	PG
<i>Glyceria grandis</i>		Tall mannagrass	Poaceae - Grass Family	N	W	PG
<i>Glyceria striata</i>		Fowl mannagrass	Poaceae - Grass Family	N	W	PG
<i>Lophopyrum elongatum</i>	<i>Agropyron elongatum</i>	Tall wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Muhlenbergia filiformis</i>		Pull-up muhly	Poaceae - Grass Family	N	W	AG
<i>Muhlenbergia montana</i>		Mountain muhly	Poaceae - Grass Family	N	W	PG
<i>Panicum virgatum</i>		Switchgrass	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Phleum pratense</i>		Common Timothy	Poaceae - Grass Family	I	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa fendleriana</i>		Muttongrass	Poaceae - Grass Family	N	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
	<i>Andropogon</i>					
<i>Schizachyrium scoparium</i>	<i>scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Sorghastrum nutans</i>		Indian-grass	Poaceae - Grass Family	N	W	PG
<i>Spartina pectinata</i>		Prairie cordgrass	Poaceae - Grass Family	N	W	PG
<i>Sporobolus airoides</i>		Alkaline sacatone	Poaceae - Grass Family	N	W	PG
<i>Sporobolus cryptandrus</i>		Sand dropseed	Poaceae - Grass Family	N	W	PG
<i>Stipa comata</i>		Needle-and-thread	Poaceae - Grass Family	N	C	PG
<i>Rumex crispus</i>		Curly dock	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Clematis ligusticifolia</i>		Virgin's bower	Ranunculaceae - Buttercup Family	N	NA	V
<i>Agrimonia striata</i>		Agripmony	Rosaceae - Rose Family	N	NA	PF
<i>Geum macrophyllum</i>		Large-leaved avens	Rosaceae - Rose Family	N	NA	PF
<i>Padus virginiana</i>	<i>Prunus virginiana</i>	Chokecherry	Rosaceae - Rose Family	N	NA	S
<i>Potentilla hippiana</i>		Wooly cinquefoil	Rosaceae - Rose Family	N	NA	PF
<i>Potentilla recta</i>		Sulfur cinquefoil	Rosaceae - Rose Family	I	NA	PF
<i>Rosa sayi</i>	<i>Rosa acicularis</i>	Prickly wild rose	Rosaceae - Rose Family	N	NA	S
<i>Galium aparine</i>		Catchweed bedstraw	Rubiaceae - Madder Family	I	NA	AF
<i>Populus deltoides</i>		Plains cottonwood	Salicaceae - Willow Family	N	NA	T

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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Salix alba var. vitellina</i>		Golden osier	Salicaceae - Willow Family	I	NA	T
<i>Salix amygdaloides</i>		Peach-leaf willow	Salicaceae - Willow Family	N	NA	T
<i>Salix exigua</i>		Sandbar willow	Salicaceae - Willow Family	N	NA	S
<i>Salix fragilis</i>		Crack willow	Salicaceae - Willow Family	I	NA	T
<i>Verbascum blattaria</i>		Moth mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Verbascum thapsus</i>		Common mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Mimulus glabratus</i>		Monkeflower	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Veronica peregrina</i>		Purslane speedwell	Scrophulariaceae - Figwort Family	N	NA	AF
<i>Typha angustifolia</i>		Narrow-leaved cattail	Typhaceae - Cattail Family	N	NA	PF
<i>Typha latifolia</i>		Common cattail	Typhaceae - Cattail Family	N	NA	PF

**Plant Species List  
Seasonal Pond  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Achillea lanulosa</i>		Yarrow	Asteraceae - Sunflower Family	N	NA	PF
<i>Ambrosia psilostachya</i>		Western ragweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster porteri</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Conyza canadensis</i>		Horseweed	Asteraceae - Sunflower Family	N	NA	AF
<i>Erigeron divergens</i>		Spreading fleabane	Asteraceae - Sunflower Family	N	NA	BF
<i>Grindelia squarrosa</i>		Curlycup gumweed	Asteraceae - Sunflower Family	N	NA	BF
<i>Helianthus annuus</i>		Common sunflower	Asteraceae - Sunflower Family	N	NA	AF
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Oligosporus campestris</i>	<i>Artemisia campestris</i>	Western sagewort	Asteraceae - Sunflower Family	N	NA	BF
<i>Xanthium strumarium</i>		Cocklebur	Asteraceae - Sunflower Family	I	NA	AF
<i>Descurainia sophia</i>		Tansy mustard	Brassicaceae - Mustard Family	I	NA	AF/BF
<i>Neolepia campestre</i>	<i>Lepidium campestre</i>	Fieldcress	Brassicaceae - Mustard Family	I	NA	BF
<i>Sisymbrium altissimum</i>		Tumbling mustard	Brassicaceae - Mustard Family	I	NA	AF
<i>Thlaspi arvense</i>		Fanweed	Brassicaceae - Mustard Family	I	NA	AF
<i>Calochortus gunnisonii</i>		Mariposa lily	Family	N	NA	PF
<i>Carex nebrascensis</i>		Nebraska sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex utriculata</i>	<i>Carex rostrata</i>	Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Eleocharis palustris</i>		Spike-rush	Cyperaceae - Sedge Family	N	NA	PG
<i>Dalea purpurea</i>	<i>Petalostemon purpurea</i>	Purple prairie clover	Fabaceae - Pea Family	N	NA	PF
<i>Glycyrrhiza lepidota</i>		American licorice	Fabaceae - Pea Family	N	NA	PF
<i>Erodium cicutarium</i>		Filaree	Geraniaceae - Geranium Family	I	NA	AF
<i>Juncus balticus</i>		Baltic rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus effusus</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Agropyron cristatum</i>		Crested wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Distichlis spicata</i>		Salt-grass	Poaceae - Grass Family	N	W	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG

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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Persicaria maculata</i>	<i>Polygonum persicaria</i>	Lady's thumb	Polygonaceae - Buckwheat Family	I	NA	AF
<i>Persicaria pennsylvanica</i>	<i>Polygonum pennsylvanicum</i>	Pennsylvania smartweed	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Agrimonia striata</i>		Agrimony	Rosaceae - Rose Family Scrophulariaceae - Figwort Family	N	NA	PF
<i>Verbascum blattaria</i>		Moth mullein	Family	I	NA	BF
<i>Typha angustifolia</i>		Narrow-leaved cattail	Typhaceae - Cattail Family	N	NA	PF
<i>Typha latifolia</i>		Common cattail	Typhaceae - Cattail Family	N	NA	PF



**Plant Species List  
Hillside Seeps  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Apocynum cannabinum</i>		Indian hemp	Apocynaceae - Dogbane Family	N	NA	PF
<i>Asclepias speciosa</i>		Showy milkweed	Asclepiadaceae - Milkweed Family	N	NA	PF
<i>Arnica fulgens</i>		Arnica	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster adscendens</i>	<i>Aster chilensis</i>	Aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Carduus nutans</i>		Musk thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Helianthus annuus</i>		Common sunflower	Asteraceae - Sunflower Family	N	NA	AF
<i>Solidago serotinoidea</i>		Goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Xanthium strumarium</i>		Cocklebur	Asteraceae - Sunflower Family	I	NA	AF
<i>Cynoglossum officinale</i>		Houndstongue	Boraginaceae - Borage Family	I	NA	BF
<i>Symphoricarpos occidentalis</i>		Western snowberry	Caprifoliaceae - Honeysuckle Family	N	NA	S
<i>Bassia sieversiana</i>	<i>Kochia scoparia</i>	Kochia	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Carex languinosa</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex nebrascensis</i>		Nebraska sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex utriculata</i>	<i>Carex rostrata</i>	Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Dipsacus sylvestris</i>		Teasel	Dipsacaceae - Teasel Family	I	NA	BF
<i>Hippochaete laevigata</i>	<i>Equisetum laevigatum</i>	Smooth scouring rush	Equisetaceae - Horsetail Family	N	NA	AF
<i>Amorpha fruticosa</i>		False indigo	Fabaceae - Pea Family	N	NA	S
<i>Glycyrrhiza lepidota</i>		American licorice	Fabaceae - Pea Family	N	NA	PF
<i>Melilotus albus</i>		White sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Melilotus officinalis</i>		Yellow sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort family	I	NA	PF
<i>Iris missouriensis</i>		Wild iris	Iridaceae - Iris Family	N	NA	PF
<i>Juncus balticus</i>		Baltic rush	Juncaceae - Rush Family	N	NA	PG
<i>Juncus effusus</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Marrubium vulgare</i>		Horehound	Lamiaceae - Mint Family	I	NA	PF
<i>Mentha arvensis</i>		Fieldmint	Lamiaceae - Mint Family	N	NA	PF

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Hillside Seeps  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Oenothera villosa</i>		Common evening-primrose	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Plantago lanceolata</i>		English plantain	Plantaginaceae - Plantain Family	I	NA	PF
<i>Agrostis gigantea</i>	<i>Agrostis alba</i>	Redtop	Poaceae - Grass Family	I	C	PG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth brome grass	Poaceae - Grass Family	I	C	PG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Dactylis glomerata</i>		Orchard grass	Poaceae - Grass Family	I	C	PG
<i>Panicum capillare</i>		Witchgrass	Poaceae - Grass Family	N	W	AG
<i>Panicum virgatum</i>		Switchgrass	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Spartina pectinata</i>		Prairie cordgrass	Poaceae - Grass Family	N	W	PG
<i>Stipa viridula</i>		Green needlegrass	Poaceae - Grass Family	N	C	PG
<i>Geum macrophyllum</i>		Large-leaved avens	Rosaceae - Rose Family	N	NA	PF
<i>Prunus americana</i>		Wild plum	Rosaceae - Rose Family	N	NA	S
<i>Rosa sayi</i>	<i>Rosa acicularis</i>	Prickly wild rose	Rosaceae - Rose Family	N	NA	S
<i>Rosa woodsii</i>		Woods rose	Rosaceae - Rose Family	N	NA	S
<i>Salix exigua</i>		Sandbar willow	Salicaceae - Willow Family	N	NA	S
<i>Verbascum blattaria</i>		Moth mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Verbascum thapsus</i>		Common mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Typha angustifolia</i>		Narrow-leaved cattail	Typhaceae - Cattail Family	N	NA	PF
<i>Typha latifolia</i>		Common cattail	Typhaceae - Cattail Family	N	NA	PF

**Plant Species List**  
**Ponderosa Pine Woodland**  
**NREL National Wind Technology Center**

<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Yucca glauca</i>		Yucca	Agavaceae - Agave Family	N	NA	SU
<i>Allium textile</i>		Wild onion	Alliaceae - Onion Family	N	NA	PF
<i>Cerastrium strictum</i>		Mouse-ear	Alsinoaceae - Chickweed Family	N	NA	PF
<i>Eremogone fendleri</i>		Desert sandwort	Alsinoaceae - Chickweed Family	N	NA	PF
<i>Eremogone hookeri</i>	<i>Arenaria hookeri</i>	Desert sandwort	Alsinoaceae - Chickweed Family	N	NA	PF
<i>Paronychia jamesii</i>		James' nailwort	Alsinoaceae - Chickweed Family	N	NA	PF
<i>Rhus aromatica</i> var. <i>trilobata</i>		Skunkbrush	Anacardiaceae - Sumac Family	N	NA	S
<i>Toxicodendron rydbergii</i>		Poison ivy	Anacardiaceae - Sumac Family	N	NA	S
<i>Harbouria trachypleura</i>		Whisk broom parsley	Apiaceae - Parsley Family	N	NA	PF
<i>Apocynum cannabinum</i>		Indian hemp	Apocynaceae - Dogbane Family	N	NA	PF
<i>Achillea lanulosa</i>		Yarrow	Asteraceae - Sunflower Family	N	NA	PF
<i>Ambrosia psilostachya</i>		Western ragweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Antennaria rosea</i>		Pussytoes	Asteraceae - Sunflower Family	N	NA	PF
<i>Artemisia absinthium</i>		Wormwood	Asteraceae - Sunflower Family	N	NA	PF/SS
<i>Artemisia ludoviciana</i>		Prairie sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster ericoides</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Brickellia eupatorioides</i>		Brickellia	Asteraceae - Sunflower Family	N	NA	PF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Cirsium undulatum</i>		Wavyleaf thistle	Asteraceae - Sunflower Family	N	NA	BF
<i>Grindelia revoluta</i>		Gumweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Grindelia squarrosa</i>		Curlycup gumweed	Asteraceae - Sunflower Family	N	NA	BF
<i>Gutierrezia sarothrae</i>		Broom snakeweed	Asteraceae - Sunflower Family	N	NA	SS
<i>Heterotheca villosa</i>	<i>Chrysopsis villosa</i>	Hairy golden aster	Asteraceae - Sunflower Family	N	NA	SS
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Liatris punctata</i>		Dotted gayfeather	Asteraceae - Sunflower Family	N	NA	PF
<i>Oligosporus dracunculus</i>	<i>Artemisia dracunculus</i>	Wild tarragon	Asteraceae - Sunflower Family	N	NA	PF
<i>Senecio crassulus</i>		Butterweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Senecio spartioides</i>		Groundsel	Asteraceae - Sunflower Family	N	NA	PF/SS
<i>Solidago mollis</i>		Soft goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Taraxacum officinale</i>		Common dandelion	Asteraceae - Sunflower Family	I	NA	PF

**Plant Species List**  
**Ponderosa Pine Woodland**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Townsendia hookeri</i>		Easter daisy	Asteraceae - Sunflower Family	N	NA	PF
<i>Cynoglossum officinale</i>		Houndstongue	Boraginaceae - Borage Family	I	NA	BF
<i>Lithospermum incisum</i>		Narrowleaf gromwell	Boraginaceae - Borage Family	N	NA	PF
<i>Alyssum alyssoides</i>		Pale alyssum	Brassicaceae - Mustard Family	I	NA	AF
<i>Erysimum capitatum</i>		Western wallflower	Brassicaceae - Mustard Family	N	NA	BF
<i>Coryphantha vivipara</i> var. <i>vivipara</i>		Nipple cactus	Cactaceae - Cactus Family	N	NA	SU
<i>Echinocereus viridiflorus</i>		Hen-and-chicks	Cactaceae - Cactus Family	N	NA	SU
<i>Opuntia macrorhiza</i>		Plains prickly pear	Cactaceae - Cactus Family	N	NA	SU
<i>Opuntia polyacantha</i>		Plains prickly pear	Cactaceae - Cactus Family	N	NA	SU
<i>Campanula rotundifolia</i>		Common harebell	Campanulaceae - Bellflower Family	N	NA	PF
<i>Symphoricarpos occidentalis</i>		Western snowberry	Caprifoliaceae - Honeysuckle Family	N	NA	S
<i>Chenopodium album</i>		Common lambsquarters	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Convolvulus arvensis</i>		Field bindweed	Convolvulaceae - Morning Glory Family	I	NA	PF
<i>Carex brevior</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex filifolia</i>		Thread-leafed sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex</i> sp.		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Astragalus mollissimus</i>		Woolly locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Dalea purpurea</i>	<i>Petalostemon purpurea</i>	Purple prairie clover	Fabaceae - Pea Family	N	NA	PF
<i>Lupinus argenteus</i>		Silver lupine	Fabaceae - Pea Family	N	NA	PF
<i>Oxytropis lambertii</i>		Lambert locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Psoralidium tenuiflora</i>		Slimflower scurfpea	Fabaceae - Pea Family	N	NA	PF
<i>Thermopsis rhombifolia</i>		Prairie goldenpea	Fabaceae - Pea Family	N	NA	PF
<i>Frasera speciosa</i>		Monument plant	Gentianaceae - Gentian Family	N	NA	PF
<i>Pneumonanthe affinis</i>	<i>Gentiana affinis</i>	Bottle gentian	Gentianaceae - Gentian Family	N	NA	PF
<i>Geranium caespitosum</i>		Wild geranium	Geraniaceae - Geranium Family	N	NA	PF
<i>Geranium viscosissimum</i>		Sticky geranium	Geraniaceae - Geranium Family	N	NA	PF
<i>Ribes aureum</i>		Golden current	Grossulariaceae - Current Family	N	NA	S
<i>Ribes cereum</i>		Wax current	Grossulariaceae - Current Family	N	NA	S
<i>Delphinium nuttallianum</i>		Blue larkspur	Helleboraceae - Hellebore Family	N	NA	PF

**Plant Species List**  
**Ponderosa Pine Woodland**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Phacelia heterophylla</i>	<i>Phacelia hastata</i>	Scorpioweed	Hydrophyllaceae - Waterleaf Family	N	NA	PF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort family	I	NA	PF
<i>Monarda fistulosa</i>		Bee balm	Lamiaceae - Mint Family	N	NA	PF
<i>Leucocrinum montanum</i>		Sand lily	Liliaceae - Lily Family	N	NA	PF
<i>Calylophus serrulatus</i>		Shrubby evening-primrose	Onagraceae - Evening-primrose Family	N	NA	SS
<i>Oenothera coronopifolia</i>		Combleaf evening-primrose	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Oxalis dillenii</i>		Woodsorrel	Oxalidaceae - Woodsorrel Family	N	NA	PF
<i>Pinus ponderosa</i>		Ponderosa pine	Pinaceae - Pine Family	N	NA	T
<i>Pseudotsuga menziesii</i>		Douglas-fir	Pinaceae - Pine Family	N	NA	T
<i>Agropyron cristatum</i>		Crested wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Agrostis scabra</i>		Ticklegrass	Poaceae - Grass Family	N	C	PG
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Aristida purpurea</i>		Three-awn	Poaceae - Grass Family	N	W	PG
<i>Bouteloua curtipendula</i>		Side-oats grama	Poaceae - Grass Family	N	W	PG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth brome grass	Poaceae - Grass Family	I	C	PG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Elymus elymoides</i>	<i>Sitanion hystrix</i>	Bottletail squirreltail	Poaceae - Grass Family	N	C	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Muhlenbergia montana</i>		Mountain muhly	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Schizachyrium scoparium</i>	<i>Andropogon scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Stipa comata</i>		Needle-and-thread	Poaceae - Grass Family	N	C	PG
<i>Pulsatilla patens</i>	<i>Anemone patens</i>	Pasque flower	Ranunculaceae - Buttercup Family	N	NA	PF
<i>Amelanchier utahensis</i>		Serviceberry	Rosaceae - Rose Family	N	NA	S

**Plant Species List**  
**Ponderosa Pine Woodland**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Cerasus pumila</i> subsp. <i>besseyi</i>	<i>Prunus pumila</i> var. <i>besseyi</i>	Sand cherry	Rosaceae - Rose Family	N	NA	S
<i>Crataegus erythropoda</i>		Hawthorn	Rosaceae - Rose Family	N	NA	T
<i>Drymocallis fissa</i>	<i>Potentilla fissa</i>	Cinquefoil	Rosaceae - Rose Family	N	NA	PF
<i>Oreobatus deliciosus</i>	<i>Rubus deliciosus</i>	Boulder raspberry	Rosaceae - Rose Family	N	NA	S
<i>Padus virginiana</i>	<i>Prunus virginiana</i>	Chokecherry	Rosaceae - Rose Family	N	NA	S
<i>Potentilla hippiana</i>		Wooly cinquefoil	Rosaceae - Rose Family	N	NA	PF
<i>Potentilla ovina</i>		Potentilla	Rosaceae - Rose Family	N	NA	PF
<i>Potentilla recta</i>		Sulfur cinquefoil	Rosaceae - Rose Family	I	NA	PF
<i>Rosa arkansana</i>		Prairie rose	Rosaceae - Rose Family	N	NA	S
<i>Rosa woodsii</i>		Woods rose	Rosaceae - Rose Family	N	NA	S
<i>Galium aparine</i>		Catchweed bedstraw	Rubiaceae - Madder Family	I	NA	AF
<i>Galium septentrionale</i>		Northern bedstraw	Rubiaceae - Madder Family	N	NA	PF
<i>Commandra umbellata</i>		Bastard-toadflax	Santalaceae - Sandelwood Family	N	NA	PF
<i>Penstemon secundiflorus</i>		Penstemon	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Penstemon virgatus</i>		Penstemon	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Verbascum blattaria</i>		Moth mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Verbascum thapsus</i>		Common mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Viola nuttallii</i>		Yellow prairie violet	Violaceae - Violet Family	N	NA	PF

**Plant Species List  
Upland Shrubland  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Cerastrium strictum</i>		Mouse-ear	Alsinaaceae - Chickweed Family	N	NA	PF
<i>Eremogone fendleri</i>		Desert sandwort	Alsinaaceae - Chickweed Family	N	NA	PF
<i>Paronychia jamesii</i>		James' nailwort	Alsinaaceae - Chickweed Family	N	NA	PF
<i>Rhus aromatica</i> var. <i>trilobata</i>		Skunkbrush	Anacardiaceae - Sumac Family	N	NA	S
<i>Toxicodendron rydbergii</i>		Poison ivy	Anacardiaceae - Sumac Family	N	NA	S
<i>Lomatium orientale</i>		Lomatium	Apiaceae - Parsley Family	N	NA	PF
<i>Achillea lanulosa</i>		Yarrow	Asteraceae - Sunflower Family	N	NA	PF
<i>Ambrosia psilostachya</i>		Western ragweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Antennaria rosea</i>		Pussytoes	Asteraceae - Sunflower Family	N	NA	PF
<i>Artemisia frigida</i>		Fringed sagebrush	Asteraceae - Sunflower Family	N	NA	SS
<i>Artemisia ludoviciana</i>		Prairie sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster porteri</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Cirsium undulatum</i>		Wavyleaf thistle	Asteraceae - Sunflower Family	N	NA	BF
<i>Gutierrezia sarothrae</i>		Broom snakeweed	Asteraceae - Sunflower Family	N	NA	SS
<i>Helianthus rigidus</i>		Stiff sunflower	Asteraceae - Sunflower Family	N	NA	PF
<i>Heterotheca villosa</i>	<i>Chrysopsis villosa</i>	Hairy golden aster	Asteraceae - Sunflower Family	N	NA	SS
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Liatris punctata</i>		Dotted gayfeather	Asteraceae - Sunflower Family	N	NA	PF
<i>Oligosporus dracunculus</i>	<i>Artemisia dracunculus</i>	Wild tarragon	Asteraceae - Sunflower Family	N	NA	PF
<i>Senecio crassulus</i>		Butterweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Solidago missouriensis</i>		Prairie goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Solidago mollis</i>		Soft goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Solidago speciosa</i> var. <i>pallida</i>		Goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Tragopogon dubius</i>		Goatsbeard	Asteraceae - Sunflower Family	I	NA	BF
<i>Cynoglossum officinale</i>		Houndstongue	Boraginaceae - Borage Family	I	NA	BF
<i>Erysimum capitatum</i>		Western wallflower	Brassicaceae - Mustard Family	N	NA	BF
<i>Sisymbrium altissimum</i>		Tumbling mustard	Brassicaceae - Mustard Family	I	NA	AF
<i>Echinocereus viridiflorus</i>		Hen-and-chicks	Cactaceae - Cactus Family	N	NA	SU
<i>Opuntia polyacantha</i>		Plains prickly pear	Cactaceae - Cactus Family	N	NA	SU
<i>Symphoricarpos occidentalis</i>		Western snowberry	Caprifoliaceae - Honeysuckle Family	N	NA	S

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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Bassia sieversiana</i>	<i>Kochia scoparia</i>	Kochia	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Carex brevior</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex filifolia</i>		Thread-leafed sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Dalea purpurea</i>	<i>Petalostemon purpurea</i>	Purple prairie clover	Fabaceae - Pea Family	N	NA	PF
<i>Oxytropis lambertii</i>		Lambert locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Psoralidium tenuiflora</i>		Slimflower scurfpea	Fabaceae - Pea Family	N	NA	PF
<i>Thermopsis divaricarpa</i>		Prairie goldenpea	Fabaceae - Pea Family	N	NA	PF
<i>Pneumonanthe affinis</i>	<i>Gentiana affinis</i>	Bottle gentian	Gentianaceae - Gentian Family	N	NA	PF
<i>Ribes cereum</i>		Wax current	Grossulariaceae - Current Family	N	NA	S
<i>Delphinium nuttallianum</i>		Blue larkspur	Helleboraceae - Hellebore Family	N	NA	PF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort family	I	NA	PF
<i>Leucocrinum montanum</i>		Sand lily	Liliaceae - Lily Family	N	NA	PF
<i>Linum lewisii</i>		Perennial flax	Linaceae - Flax Family	N	NA	PF
<i>Calylophus serrulatus</i>		Shrubby evening-primrose	Onagraceae - Evening-primrose Family	N	NA	SS
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth brome grass	Poaceae - Grass Family	I	C	PG
<i>Chondrosium gracile</i>	<i>Bouteloua gracilis</i>	Blue grama	Poaceae - Grass Family	N	W	PG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Elymus canadensis</i>		Canada wild rye	Poaceae - Grass Family	N	C	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Muhlenbergia montana</i>		Mountain muhly	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Schizachyrium scoparium</i>	<i>Andropogon scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Sorghastrum nutans</i>		Indian-grass	Poaceae - Grass Family	N	W	PG
<i>Stipa comata</i>		Needle-and-thread	Poaceae - Grass Family	N	C	PG
<i>Eriogonum umbellatum</i>		Wild buckwheat	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Pterogonum alatum</i>	<i>Erigeron alatum</i>	Winged buckwheat	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Amelanchier utahensis</i>		Serviceberry	Rosaceae - Rose Family	N	NA	S



**Plant Species List  
Upland Shrubland  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Cerasus pumila</i> subsp. <i>besseyi</i>	<i>Prunus pumila</i> var. <i>bessyi</i>	Sand cherry	Rosaceae - Rose Family	N	NA	S
<i>Crataegus erythropoda</i>		Hawthorn	Rosaceae - Rose Family	N	NA	T
<i>Padus virginiana</i>	<i>Prunus virginiana</i>	Chokecherry	Rosaceae - Rose Family	N	NA	S
<i>Potentilla ovina</i>		Potentilla	Rosaceae - Rose Family	N	NA	PF
<i>Potentilla recta</i>		Sulfur cinquefoil	Rosaceae - Rose Family	I	NA	PF
<i>Prunus americana</i>		Wild plum	Rosaceae - Rose Family	N	NA	S
<i>Rosa arkansana</i>		Prairie rose	Rosaceae - Rose Family	N	NA	S
<i>Rosa woodsii</i>		Woods rose	Rosaceae - Rose Family	N	NA	S
<i>Commandra umbellata</i>		Bastard-toadflax	Santalaceae - Sandelwood Family	N	NA	PF
<i>Castilleja sessiliflora</i>		Downy paintbrush	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Penstemon secundiflorus</i>		Penstemon	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Penstemon virgatus</i>		Penstemon	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Verbascum thapsus</i>		Common mullein	Scrophulariaceae - Figwort Family	I	NA	BF

**Plant Species List**  
**Xeric Mixed Grassland**  
**NREL National Wind Technology Center**

<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Asclepias pumila</i>		Plains milkweed	Aclepiadaceae - Milkweed Family	N	NA	PF
<i>Yucca glauca</i>		Yucca	Agavaceae - Agave Family	N	NA	SU
<i>Allium textile</i>		Wild onion	Alliaceae - Onion Family	N	NA	PF
<i>Eremogone fendleri</i>		Desert sandwort	Alsinoaceae - Chickweed Family	N	NA	PF
<i>Paronychia jamesii</i>		James' nailwort	Alsinoaceae - Chickweed Family	N	NA	PF
<i>Amaranthus retroflexus</i>		Redroot pigweed	Amaranthaceae - Amaranth Family	I	NA	AF
<i>Rhus aromatica</i> var. <i>trilobata</i>		Skunkbrush	Anacardiaceae - Sumac Family	N	NA	S
<i>Harbouria trachyleura</i>		Whisk broom parsley	Apiaceae - Parsley Family	N	NA	PF
<i>Lomatium orientale</i>		Lomatium	Apiaceae - Parsley Family	N	NA	PF
<i>Apocynum cannabinum</i>		Indian hemp	Apocynaceae - Dogbane Family	N	NA	PF
<i>Asclepias speciosa</i>		Showy milkweed	Asclepiadaceae - Milkweed Family	N	NA	PF
<i>Achillea lanulosa</i>		Yarrow	Asteraceae - Sunflower Family	N	NA	PF
<i>Ambrosia psilostachya</i>		Western ragweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Anaphalis margaritacea</i>		Pearly everlasting	Asteraceae - Sunflower Family	N	NA	PF
<i>Antennaria rosea</i>		Pussytoes	Asteraceae - Sunflower Family	N	NA	PF
<i>Arnica fulgens</i>		Arnica	Asteraceae - Sunflower Family	N	NA	PF
<i>Artemisia campestris</i>		Field sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Artemisia frigida</i>		Fringed sagebrush	Asteraceae - Sunflower Family	N	NA	SS
<i>Artemisia ludoviciana</i>		Prairie sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster ericoides</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster porteri</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Brickellia eupatorioides</i>		Brickellia	Asteraceae - Sunflower Family	N	NA	PF
<i>Carduus nutans</i>		Musk thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Chrysothamnus nauseosus</i>		Rubber rabbitbrush	Asteraceae - Sunflower Family	N	NA	S
<i>Cichorium intybus</i>		Chicory	Asteraceae - Sunflower Family	I	NA	PF
<i>Cirsium undulatum</i>		Wavyleaf thistle	Asteraceae - Sunflower Family	N	NA	BF
<i>Cirsium vulgare</i>		Bull thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Conyza canadensis</i>		Horseweed	Asteraceae - Sunflower Family	N	NA	AF
<i>Erigeron divergens</i>		Spreading fleabane	Asteraceae - Sunflower Family	N	NA	BF
<i>Gaillardia aristata</i>		Blanketflower	Asteraceae - Sunflower Family	N	NA	PF

**Plant Species List**  
**Xeric Mixed Grassland**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Grindelia squarrosa</i>		Curlycup gumweed	Asteraceae - Sunflower Family	N	NA	BF
<i>Gutierrezia sarothrae</i>		Broom snakeweed	Asteraceae - Sunflower Family	N	NA	SS
<i>Helianthus annuus</i>		Common sunflower	Asteraceae - Sunflower Family	N	NA	AF
<i>Helianthus petiolaris</i>		Prairie sunflower	Asteraceae - Sunflower Family	N	NA	AF
<i>Helianthus rigidus</i>		Stiff sunflower	Asteraceae - Sunflower Family	N	NA	PF
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Liatris punctata</i>		Dotted gayfeather	Asteraceae - Sunflower Family	N	NA	PF
<i>Oligosporus dracunculus</i>	<i>Artemisia dracunculus</i>	Wild tarragon	Asteraceae - Sunflower Family	N	NA	PF
<i>Ratibida columnifera</i>		Prairie coneflower	Asteraceae - Sunflower Family	N	NA	PF
<i>Senecio crassulus</i>		Butterweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Senecio integerrimus</i>		Grounsel	Asteraceae - Sunflower Family	N	NA	BF/PF
<i>Senecio spartioides</i>		Groundsel	Asteraceae - Sunflower Family	N	NA	PF/SS
<i>Solidago missouriensis</i>		Prairie goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Solidago mollis</i>		Soft goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Solidago nana</i>		Goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Taraxacum officinale</i>		Common dandelion	Asteraceae - Sunflower Family	I	NA	PF
<i>Townsendia hookeri</i>		Easter daisy	Asteraceae - Sunflower Family	N	NA	PF
<i>Tragopogon dubius</i>		Goatsbeard	Asteraceae - Sunflower Family	I	NA	BF
<i>Cynoglossum officinale</i>		Houndstongue	Boraginaceae - Borage Family	I	NA	BF
<i>Lithospermum incisum</i>		Narrowleaf gromwell	Boraginaceae - Borage Family	N	NA	PF
<i>Oreocarya virgata</i>	<i>Cryptantha virgata</i>	Miner's candle	Boraginaceae - Borage Family	N	NA	PF
<i>Alyssum alyssoides</i>		Pale alyssum	Brassicaceae - Mustard Family	I	NA	AF
<i>Cardaria draba</i>		Whitetop	Brassicaceae - Mustard Family	I	NA	PF
<i>Erysimum capitatum</i>		Western wallflower	Brassicaceae - Mustard Family	N	NA	BF
<i>Lesquerella ludoviciana</i>		Bladderpod	Brassicaceae - Mustard Family	N	NA	PF
<i>Sisymbrium altissimum</i>		Tumbling mustard	Brassicaceae - Mustard Family	I	NA	AF
<i>Coryphantha missouriensis</i>		Yellow pincushion	Cactaceae - Cactus Family	N	NA	SU
<i>Echinocereus viridiflorus</i>		Hen-and-chicks	Cactaceae - Cactus Family	N	NA	SU
<i>Opuntia fragilis</i>		Brittle cactus	Cactaceae - Cactus Family	N	NA	SU
<i>Opuntia macrorhiza</i>		Plains prickly pear	Cactaceae - Cactus Family	N	NA	SU

**Plant Species List**  
**Xeric Mixed Grassland**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Calochortus gunnisonii</i>		Mariposa lily	Calochortaceae - Mariposa Family	N	NA	PF
<i>Symphoricarpos occidentalis</i>		Western snowberry	Caprifoliaceae - Honeysuckle Family	N	NA	S
<i>Bassia sieversiana</i>	<i>Kochia scoparia</i>	Kochia	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Chenopodium album</i>		Common lambsquarters	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Kochia scoparia</i>	<i>Bassia sieversiana</i>	Summer cypress	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Convolvulus arvensis</i>		Field bindweed	Convolvulaceae - Morning Glory Family	I	NA	PF
<i>Carex brevior</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Carex filifolia</i>		Thread-leafed sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Tithymalus brachyceras</i>		Spurge	Euphorbiaceae - Spurge Family	N	NA	PF
<i>Tithymalus montanus</i>		Spurge	Euphorbiaceae - Spurge Family	N	NA	PF
<i>Astragalus crassicaulus</i>		Groundplum milkvetch	Fabaceae - Pea Family	N	NA	PF
<i>Astragalus mollissimus</i>		Woolly locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Astragalus</i> sp.		Locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Dalea purpurea</i>	<i>Petalostemon purpurea</i>	Purple prairie clover	Fabaceae - Pea Family	N	NA	PF
<i>Glycyrrhiza lepidota</i>		American licorice	Fabaceae - Pea Family	N	NA	PF
<i>Lupinus argenteus</i>		Silver lupine	Fabaceae - Pea Family	N	NA	PF
<i>Melilotus officinalis</i>		Yellow sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Oxytropis lambertii</i>		Lambert locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Psoralea tenuiflora</i>		Slimflower scurfpea	Fabaceae - Pea Family	N	NA	PF
<i>Thermopsis rhombifolia</i>		Prairie goldenpea	Fabaceae - Pea Family	N	NA	PF
<i>Pneumonanthe affinis</i>	<i>Gentiana affinis</i>	Bottle gentian	Gentianaceae - Gentian Family	N	NA	PF
<i>Erodium cicutarium</i>		Filaree	Geraniaceae - Geranium Family	I	NA	AF
<i>Delphinium nuttallianum</i>		Blue larkspur	Helleboraceae - Hellebore Family	N	NA	PF
<i>Phacelia heterophylla</i>	<i>Phacelia hastata</i> var. <i>leucophylla</i>	Scorpioweed	Hydrophyllaceae - Waterleaf Family	N	NA	PF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort family	I	NA	PF
<i>Iris missouriensis</i>		Wild iris	Iridaceae - Iris Family	N	NA	PF
<i>Juncus</i> sp.		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Leucocrinum montanum</i>		Sand lily	Liliaceae - Lily Family	N	NA	PF
<i>Linum lewisii</i>		Perennial flax	Linaceae - Flax Family	N	NA	PF

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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Sphaeralcea coccinea</i>		Scarlet globemallow	Malvaceae - Mallow Family	N	NA	PF
<i>Toxicoscordion venenosum</i>	<i>Zigadenus venenosus</i>	Death camass	Melanthiaceae - False Hellbore Family	N	NA	PF
<i>Calylophus serrulatus</i>		Shrubby evening-primrose	Onagraceae - Evening-primrose Family	N	NA	SS
<i>Gaura coccinea</i>		Scarlet gaura	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Oenothera howardii</i>	<i>Oenothera brachycarpa</i>	Evening-primrose	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Oenothera villosa</i>		Common evening-primrose	Onagraceae - Evening-primrose Family	N	NA	PF
<i>Aphyllon fasciculatum</i>	<i>Orobanche fasciculata</i>	Broomrape	Orobanchaceae - Broomrape Family	N	NA	PF
<i>Oxalis dillenii</i>		Woodsorrel	Oxalidaceae - Woodsorrel Family	N	NA	PF
<i>Argemone polyanthemus</i>		Prickly poppy	Papaveraceae - Poppy Family	N	NA	PF
<i>Pinus ponderosa</i>		Ponderosa pine	Pinaceae - Pine Family	N	NA	T
<i>Plantago lanceolata</i>		English plantain	Plantaginaceae - Plantain Family	I	NA	PF
<i>Agropyron cristatum</i>		Crested wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Agrostis scabra</i>		Ticklegrass	Poaceae - Grass Family	N	C	PG
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Aristida purpurea</i>	<i>Aristida purpurea</i> var. <i>robusta</i>	Red three-awn	Poaceae - Grass Family	N	W	PG
<i>Bouteloua curtipendula</i>		Side-oats grama	Poaceae - Grass Family	N	W	PG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth bromegrass	Poaceae - Grass Family	I	C	PG
<i>Buchloë dactyloides</i>		Buffalograss	Poaceae - Grass Family	N	W	PG
<i>Chondrosum gracile</i>	<i>Bouteloua gracilis</i>	Blue grama	Poaceae - Grass Family	N	W	PG
<i>Dactylis glomerata</i>		Orchard grass	Poaceae - Grass Family	I	C	PG
<i>Elymus canadensis</i>		Canada wild rye	Poaceae - Grass Family	N	C	PG
<i>Elymus trachycaulus</i>	<i>Agropyron caninum</i> ssp. <i>majus</i>	Slender wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Lophopyrum elongatum</i>	<i>Agropyron elongatum</i>	Tall wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Muhlenbergia montana</i>		Mountain muhly	Poaceae - Grass Family	N	W	PG

**Plant Species List**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Oryzopsis hymenoides</i>		Indian ricegrass	Poaceae - Grass Family	N	C	PG
<i>Panicum capillare</i>		Witchgrass	Poaceae - Grass Family	N	W	AG
<i>Panicum virgatum</i>		Switchgrass	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa secunda</i>	<i>Poa canbyi</i>	Canby bluegrass	Poaceae - Grass Family	N	C	PG
<i>Poa secunda</i>	<i>Poa canbyi</i>	Canby bluegrass	Poaceae - Grass Family	N	C	PG
<i>Schizachyrium scoparium</i>	<i>Andropogon scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Sorghastrum nutans</i>		Indian-grass	Poaceae - Grass Family	N	W	PG
<i>Sporobolus cryptandrus</i>		Sand dropseed	Poaceae - Grass Family	N	W	PG
<i>Stipa comata</i>		Needle-and-thread	Poaceae - Grass Family	N	C	PG
<i>Stipa viridula</i>		Green needlegrass	Poaceae - Grass Family	N	C	PG
<i>Ipomopsis spicata</i>		Ipomopsis	Polemoniaceae - Phlox Family	N	NA	PF
<i>Eriogonum alatum</i>		Winged eriogonum	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Eriogonum sp.</i>		Wild buckwheat	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Eriogonum umbellatum</i>		Wild buckwheat	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Pterogonum alatum</i>	<i>Erigeron alatum</i>	Winged buckwheat	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Rumex crispus</i>		Curly dock	Polygonaceae - Buckwheat Family	N	NA	PF
<i>Talinum parviflorum</i>		Prairie fameflower	Portulacaceae - Purslane Family	N	NA	PF
<i>Crataegus erythropoda</i>		Hawthorn	Rosaceae - Rose Family	N	NA	T
<i>Potentilla hippiana</i>		Wooly cinquefoil	Rosaceae - Rose Family	N	NA	PF
<i>Potentilla recta</i>		Sulfur cinquefoil	Rosaceae - Rose Family	I	NA	PF
<i>Rosa sayi</i>	<i>Rosa acicularis</i>	Prickly wild rose	Rosaceae - Rose Family	N	NA	S
<i>Rosa woodsii</i>		Woods rose	Rosaceae - Rose Family	N	NA	S
<i>Commandra umbellata</i>		Bastard-toadflax	Santalaceae - Sandelwood Family	N	NA	PF
<i>Castilleja sessiliflora</i>		Downy paintbrush	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Linaria genistifolia</i> subsp. <i>dalmatica</i>	<i>Linaria dalmatica</i>	Dalmatian toadflax	Scrophulariaceae - Figwort Family	I	NA	PF
<i>Penstemon virgatus</i>		Penstemon	Scrophulariaceae - Figwort Family	N	NA	PF
<i>Verbascum blattaria</i>		Moth mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Verbascum thapsus</i>		Common mullein	Scrophulariaceae - Figwort Family	I	NA	BF

**Plant Species List**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Verbena bracteata</i>		Prostrate verbena	Verbeceae - Verbena Family	N	NA	PF
<i>Viola nuttallii</i>		Yellow prairie violet	Violaceae - Violet Family	N	NA	PF

**Plant Species List**  
**Mesic Mixed Grassland**  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Allium textile</i>		Wild onion	Alliaceae - Onion Family	N	NA	PF
<i>Artemisia ludoviciana</i>		Prairie sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster porteri</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Carduus nutans</i>		Musk thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Gaillardia aristata</i>		Blanketflower	Asteraceae - Sunflower Family	N	NA	PF
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Lithospermum arvense</i>		Corn gromwell	Boraginaceae - Borage Family	I	NA	AF
<i>Lesquerella ludoviciana</i>		Bladderpod	Brassicaceae - Mustard Family	N	NA	PF
<i>Thlaspi arvense</i>		Fanweed	Brassicaceae - Mustard Family	I	NA	AF
<i>Convolvulus arvensis</i>		Field bindweed	Convolvulaceae - Morning Glory Family	I	NA	PF
<i>Eleocharis palustris</i>		Spike-rush	Cyperaceae - Sedge Family	N	NA	PG
<i>Melilotus officinalis</i>		Yellow sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Psoralea tenuiflora</i>		Slimflower	Fabaceae - Pea Family	N	NA	PF
<i>Psoralea tenuiflora</i>		scurfpea	Fabaceae - Pea Family	N	NA	PF
<i>Pneumonanthe affinis</i>	<i>Gentiana affinis</i>	Bottle gentian	Gentianaceae - Gentian Family	N	NA	PF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort Family	I	NA	PF
<i>Agrostis gigantea</i>	<i>Agrostis alba</i>	Redtop	Poaceae - Grass Family	I	C	PG
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Bouteloua curtipendula</i>		Side-oats grama	Poaceae - Grass Family	N	W	PG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth brome	Poaceae - Grass Family	I	C	PG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	brome	Poaceae - Grass Family	I	C	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Muhlenbergia montana</i>		Mountain muhly	Poaceae - Grass Family	N	W	PG
<i>Panicum virgatum</i>		Switchgrass	Poaceae - Grass Family	N	W	PG
<i>Panicum virgatum</i>		Western	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa fendleriana</i>		Muttongrass	Poaceae - Grass Family	N	C	PG



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Mesic Mixed Grassland  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Polypogon monspeliensis</i>		Rabbitfoot grass	Poaceae - Grass Family	I	W	AG
<i>Schizachyrium scoparium</i>	<i>Andropogon scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Sorghastrum nutans</i>		Indian-grass	Poaceae - Grass Family	N	W	PG
<i>Ranunculus</i> sp.		Buttercup	Ranunculaceae - Buttercup Family	N	NA	PF
<i>Geum aleppicum</i>		Avens	Rosaceae - Rose Family	N	NA	PF
<i>Rosa sayi</i>	<i>Rosa acicularis</i>	Prickly wild rose	Rosaceae - Rose Family	N	NA	S
<i>Commandra umbellata</i>		Bastard-toadflax	Santalaceae - Sandelwood Family	N	NA	PF
<i>Veronica peregrina</i>		Purslane speedwell	Scrophulariaceae - Figwort Family	N	NA	AF
<i>Typha latifolia</i>		Common cattail	Typhaceae - Cattail Family	N	NA	PF

**Plant Species List  
Disturbed Areas  
NREL National Wind Technology Center**

<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Yucca glauca</i>		Yucca	Agavaceae - Agave Family	N	NA	SU
<i>Paronychia jamesii</i>		James' nailwort	Alsiniaceae - Chickweed Family	N	NA	PF
<i>Amaranthus retroflexus</i>		Redroot pigweed	Amaranthaceae - Amaranth Family	I	NA	AF
<i>Lomatium orientale</i>		Lomatium	Apiaceae - Parsley Family	N	NA	PF
<i>Apocynum cannabinum</i>		Indian hemp	Apocynaceae - Dogbane Family	N	NA	PF
<i>Asclepias speciosa</i>		Showy milkweed	Asclepiadaceae - Milkweed Family	N	NA	PF
<i>Achillea lanulosa</i>		Yarrow	Asteraceae - Sunflower Family	N	NA	PF
<i>Ambrosia psilostachya</i>		Western ragweed	Asteraceae - Sunflower Family	N	NA	PF
<i>Artemisia frigida</i>		Fringed sagebrush	Asteraceae - Sunflower Family	N	NA	SS
<i>Artemisia ludoviciana</i>		Prairie sagewort	Asteraceae - Sunflower Family	N	NA	PF
<i>Aster ericoides</i>		White aster	Asteraceae - Sunflower Family	N	NA	PF
<i>Carduus nutans</i>		Musk thistle	Asteraceae - Sunflower Family	I	NA	BF
<i>Centaurea diffusa</i>		Diffuse knapweed	Asteraceae - Sunflower Family	I	NA	BF/PF
<i>Centaurea maculosa</i>		Spotted knapweed	Asteraceae - Sunflower Family	I	NA	PF
<i>Cichorium intybus</i>		Chicory	Asteraceae - Sunflower Family	I	NA	PF
<i>Cirsium arvense</i>		Canada thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Conyza canadensis</i>		Horseweed	Asteraceae - Sunflower Family	N	NA	AF
<i>Dyssodia papposa</i>		Fetid marigold	Asteraceae - Sunflower Family	N	NA	PF
<i>Erigeron divergens</i>		Spreading fleabane	Asteraceae - Sunflower Family	N	NA	BF
<i>Grindelia squarrosa</i>		Curlycup gumweed	Asteraceae - Sunflower Family	N	NA	BF
<i>Gutierrezia sarothrae</i>		Broom snakeweed	Asteraceae - Sunflower Family	N	NA	SS
<i>Helianthus annuus</i>		Common sunflower	Asteraceae - Sunflower Family	N	NA	AF
<i>Lactuca serriola</i>		Prickly lettuce	Asteraceae - Sunflower Family	I	NA	BF
<i>Liatis punctata</i>		Dotted gayfeather	Asteraceae - Sunflower Family	N	NA	PF
<i>Ratibida columnifera</i>		Prairie coneflower	Asteraceae - Sunflower Family	N	NA	PF
<i>Solidago spathulata</i>		Goldenrod	Asteraceae - Sunflower Family	N	NA	PF
<i>Sonchus arvensis</i>		Field sow thistle	Asteraceae - Sunflower Family	I	NA	PF
<i>Taraxacum officinale</i>		Common dandelion	Asteraceae - Sunflower Family	I	NA	PF
<i>Xanthium strumarium</i>		Cocklebur	Asteraceae - Sunflower Family	I	NA	AF
<i>Lithospermum incisum</i>		Narrowleaf gromwell	Boraginaceae - Borage Family	N	NA	PF
<i>Alyssum alyssoides</i>		Pale alyssum	Brassicaceae - Mustard Family	I	NA	AF

**Plant Species List  
Disturbed Areas  
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<b>Scientific Binomial</b>	<b>Synonymy</b>	<b>Common Name</b>	<b>Family</b>	<b>Origin</b>	<b>Season</b>	<b>Life Form</b>
<i>Cardaria draba</i>		Whitetop	Brassicaceae - Mustard Family	I	NA	PF
<i>Sisymbrium altissimum</i>		Tumbling mustard	Brassicaceae - Mustard Family	I	NA	AF
<i>Bassia sieversiana</i>	<i>Kochia scoparia</i>	Kochia	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Chenopodium murale</i>		Nettleleaf goosefoot	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Kochia scoparia</i>	<i>Bassia sieversiana</i>	Summer cypress	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Salsola australis</i>	<i>Salsola iberica</i>	Russian-thistle	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Salsola iberica</i>		Russian-thistle	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Teloxys botrys</i>		Woodseed	Chenopodiaceae - Goosefoot Family	I	NA	AF
<i>Convolvulus arvensis</i>		Field bindweed	Convolvulaceae - Morning Glory Family	I	NA	PF
<i>Carex brevior</i>		Sedge	Cyperaceae - Sedge Family	N	NA	PG
<i>Chamaesyce glyptosperma</i>	<i>Euphorbia glyptosperma</i>	Ridgeseed spurge	Euphorbiaceae - Spurge Family	I	NA	AF
<i>Euphorbia esula</i>		Leafy spurge	Euphorbiaceae - Spurge Family	I	NA	PF
<i>Tithymalus brachyceras</i>		Spurge	Euphorbiaceae - Spurge Family	N	NA	PF
<i>Astragalus cicer</i>		Cicer milkvetch	Fabaceae - Pea Family	I	NA	PF
<i>Medicago sativa</i>		Alfalfa	Fabaceae - Pea Family	I	NA	PF
<i>Melilotus albus</i>		White sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Melilotus officinalis</i>		Yellow sweetclover	Fabaceae - Pea Family	I	NA	BF
<i>Oxytropis lambertii</i>		Lambert locoweed	Fabaceae - Pea Family	N	NA	PF
<i>Psoraleidium tenuiflora</i>		Slimflower scurfpea	Fabaceae - Pea Family	N	NA	PF
<i>Trifolium pratense</i>		Red clover	Fabaceae - Pea Family	I	NA	PF
<i>Hypericum perforatum</i>		St. Johnswort	Hypericaceae - St. Johnswort family	I	NA	PF
<i>Juncus longistylis</i>		Rush	Juncaceae - Rush Family	N	NA	PG
<i>Leucocrinum montanum</i>		Sand lily	Liliaceae - Lily Family	N	NA	PF
<i>Linum lewisii</i>		Perennial flax	Linaceae - Flax Family	N	NA	PF
<i>Calylophus serrulatus</i>		Shrubby evening-primrose	Onagraceae - Evening-primrose Family	N	NA	SS
<i>Gaura parviflora</i>		Smallflower gaura	Onagraceae - Evening-primrose Family	N	NA	AF
<i>Oxalis dillenii</i>		Woodsorrel	Oxalidaceae - Woodsorrel Family	N	NA	PF
<i>Plantago lanceolata</i>		English plantain	Plantaginaceae - Plantain Family	I	NA	PF

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<i>Plantago major</i>		Common plantain	Plantaginaceae - Plantain Family	I	NA	PF
<i>Agropyron cristatum</i>		Crested wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Andropogon gerardii</i>		Big bluestem	Poaceae - Grass Family	N	W	PG
<i>Anisantha tectorum</i>	<i>Bromus tectorum</i>	Cheatgrass	Poaceae - Grass Family	I	C	AG
<i>Aristida purpurea</i>		Three-awn	Poaceae - Grass Family	N	W	PG
<i>Bouteloua curtipendula</i>		Side-oats grama	Poaceae - Grass Family	N	W	PG
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	Smooth bromegrass	Poaceae - Grass Family	I	C	PG
<i>Buchloë dactyloides</i>		Buffalograss	Poaceae - Grass Family	N	W	PG
<i>Chondrosum gracile</i>	<i>Bouteloua gracilis</i>	Blue grama	Poaceae - Grass Family	N	W	PG
<i>Critesion jubatum</i>	<i>Hordeum jubatum</i>	Foxtail barley	Poaceae - Grass Family	N	C	PG
<i>Dactylis glomerata</i>		Orchard grass	Poaceae - Grass Family	I	C	PG
<i>Echinochloa crusgalli</i>		Barnyard grass	Poaceae - Grass Family	I	W	AG
<i>Elymus elymoides</i>	<i>Sitanion hystrix</i>	Bottletail squirreltail	Poaceae - Grass Family	N	C	PG
<i>Elymus trachycaulus</i>	<i>Agropyron caninum</i> <i>Agropyron</i>	Slender wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Elytrigia dasystachyum</i>	<i>dasystachyum</i>	Thickspike wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Eragrostis cilianensis</i>		Stinkgrass	Poaceae - Grass Family	I	W	AG
<i>Festuca ovina</i>		Sheep fescue	Poaceae - Grass Family	N	C	PG
<i>Koeleria macrantha</i>	<i>Koeleria pyramidata</i>	Junegrass	Poaceae - Grass Family	N	C	PG
<i>Lophopyrum elongatum</i>	<i>Agropyron elongatum</i>	Tall wheatgrass	Poaceae - Grass Family	I	C	PG
<i>Muhlenbergia montana</i>		Mountain muhly	Poaceae - Grass Family	N	W	PG
<i>Panicum capillare</i>		Witchgrass	Poaceae - Grass Family	N	W	AG
<i>Panicum virgatum</i>		Switchgrass	Poaceae - Grass Family	N	W	PG
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i>	Western wheatgrass	Poaceae - Grass Family	N	C	PG
<i>Poa compressa</i>		Canada bluegrass	Poaceae - Grass Family	I	C	PG
<i>Poa fendleriana</i>		Muttongrass	Poaceae - Grass Family	N	C	PG
<i>Poa pratensis</i>		Kentucky bluegrass	Poaceae - Grass Family	I	C	PG
<i>Schizachyrium scoparium</i>	<i>Andropogon scoparius</i>	Little bluestem	Poaceae - Grass Family	N	W	PG
<i>Setaria viridis</i>		Green floxtail	Poaceae - Grass Family	I	W	AG
<i>Sporobolus cryptandrus</i>		Sand dropseed	Poaceae - Grass Family	N	W	PG
<i>Stipa comata</i>		Needle-and-thread	Poaceae - Grass Family	N	C	PG

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<i>Triticum aestivum</i>		Wheat	Poaceae - Grass Family	I	C	AG
<i>Ipomopsis spicata</i>		Ipomopsis	Polemoniaceae - Phlox Family	N	NA	PF
<i>Persicaria maculata</i>	<i>Polygonum persicaria</i>	Lady's thumb	Polygonaceae - Buckwheat Family	I	NA	AF
<i>Potentilla hippiana</i>		Wooly cinquefoil	Rosaceae - Rose Family	N	NA	PF
<i>Rosa arkansana</i>		Prairie rose	Rosaceae - Rose Family	N	NA	S
<i>Commandra umbellata</i>		Bastard-toadflax	Santalaceae - Sandelwood Family	N	NA	PF
<i>Verbascum blattaria</i>		Moth mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Verbascum thapsus</i>		Common mullein	Scrophulariaceae - Figwort Family	I	NA	BF
<i>Leiostemon ambiguum</i>			Scrophulariaceae - Figwort Family	N	NA	PF
<i>Physalis virginiana</i>		Virginia ground-cherry	Solanaceae - Nightshade Family	I	NA	PF
<i>Solanum rostratum</i>		Buffalobur	Solanaceae - Nightshade Family	N	NA	AF
<i>Verbena bracteata</i>		Prostrate verbena	Verbeceae - Verbena Family	N	NA	PF
<i>Viola nuttallii</i>		Yellow prairie violet	Violaceae - Violet Family	N	NA	PF