



HIGH LINE CANAL 2018 BOTANICAL SURVEY

Prepared for the High Line Canal Conservancy by
Denver Botanic Gardens

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INTRODUCTION

The unique social and ecological roles of greenways

Greenways are being increasingly incorporated into the land use tapestries of cities and towns across the world. These corridors provide critical counterpoints to rapid urbanization as they organically evolve from old canal, rail, or traffic corridors into set-aside spaces for recreation and nature. The social and environmental capital associated with greenways is profound (Figure 1). The word “greenway” implies so much. “Green” reveals dedication to conserving vegetation and a sense of naturalness; and “way” implies movement or progress – be it of people, animals, water, or plants¹.

The High Line Canal, which spans 71 miles from Waterton Canyon in Douglas County, CO, to Green Valley Ranch in Northeast Denver, CO, is a vital asset to the surrounding region. The Canal trail winds through countless neighborhoods, falling within one mile of 350,000 people. It cleaves to the banks of the historic Canal, which was built in 1883 to move water from the



Figure 1. Greenways like the High Line Canal recreational trail create opportunities for social interaction in nature (left). To the right is a sculpture that a private landowner has placed so that it faces the Canal trail, inspiring passersby.

South Platte River to thirsty agricultural lands east of the foothills. That new thread of water attracted people, plants, and animals from the surrounding semi-arid grasslands, shaping the greenway’s identity in multiple ways. A core aspect of the trail’s identity arises, in a literal sense, from the ground up. The vegetation growing along the Canal

represents an increasingly rare tract of uninterrupted “green.” Unlike the built surfaces of parking lots, buildings, and roads, green spaces provide ecosystem services such as water filtration, erosion control, and food and cover for wildlife. While the unique role of the High Line Canal greenway is intuitive to anyone who sees it, quantifying “what greens the greenway” is necessary to leverage and sustain its ecological benefits going forward.

The importance of biodiversity in maintaining ecological function

An organizing principle for understanding the ecology of plant communities is biodiversity. In its broadest sense, biodiversity describes variety at different scales, ranging from genes to world ecosystems. **To better understand the ecology of the Canal, we must describe species-level diversity.** Typically, greater species diversity is associated with greater resilience to environmental change. As species

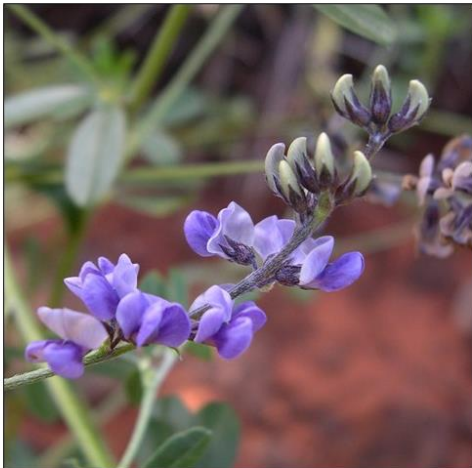


Figure 2. Slimflower scurfpea is a native species in the pea family that occurs along the Canal. These plants fix nitrogen, which increases soil fertility. Biodiverse systems contain many species that serve different ecological functions. Documenting biodiversity along the Canal will help to sustainably manage it.

**Photo by Max Licher*

numbers increase, so does their complementarity and redundancy in providing ecosystem services^{2,3}. For example, it is necessary to have species that provide different services, such as legumes that fix nitrogen, grasses that resist drought and reduce erosion, and forbs with showy blooms that attract pollinators (Figure 2). It is also necessary to have multiple species that deliver the same service, such as woody shrubs that provide wildlife cover, to buffer against potential loss of some species from the system. Herein we treat biodiversity and certain associated metrics as an organizing framework for understanding plant communities along the Canal.

Why a botanical survey?

A botanical survey generates several types of information that can be used to describe plant communities in an area of interest. A first step in describing the botanical character of an area is to ground it in a **regional context** based on the geographic and climatic factors that shape potential vegetation types (i.e., those expected in the absence of major land use change).

This information provides a baseline against which to compare contemporary field observations. **Botanical collections are then made to generate an exhaustive and verifiable list** of plant species that occur in the area (Figure 3). The contextual information from the literature is combined with information from field observations and the species list to generate both **quantitative and qualitative descriptions of plant communities**. Several quantitative metrics (detailed in the Methods) can be used to detail taxonomic and ecological patterns of plants growing along the Canal corridor. Accompanying qualitative description further integrates and distills complex information that cannot be extracted from more rigid (yet complementary) quantitative metrics. Importantly, the physical specimens used to create the species list will be



Figure 3. Members of the Denver Botanic Gardens field crew with a plant press. Specimens of each species found growing on the Canal were collected for later identification. The field crew consisted of staff and more than 10 dedicated volunteers – all of whom love plants and their regional Canal greenway.

curated in perpetuity as museum objects at Denver Botanic Gardens, and made digitally available to researchers and the public. **As such, the Canal survey contributes to a larger scientific and educational enterprise.**

METHODS

Study location

The Canal passes through 11 governmental jurisdictions in four Colorado counties including Douglas, Denver, Arapaho, and Adams (Figure 4). The Canal proper is 71 miles long, while the accompanying passable trail surveyed by the Gardens is 66 miles. The Canal covers more than 800 acres and connects to thousands more acres of adjacent parks, open spaces, and conservation areas.

Field Sampling

A complete botanical survey will capture both spatial and seasonal changes in plant species occurrences in the area of interest. The Canal trail encompasses two spatial gradients that require proper sampling. **First, there is large-scale variation** from the southwest to the northeast of the greenway, characterized by a transition from foothills to plains habitat, which is in turn overlaid by different degrees of land use intensity. These habitat and land use factors shape the “character” of the Canal corridor, as the viewshed changes in relationship to topography, the type and density of vegetation, and the type and density of surrounding development. We thus formally incorporated the Conservancy’s five Character Zones (Figure 4) into our study design and interpretation. **Second, there is smaller scale variation** that crosscuts the

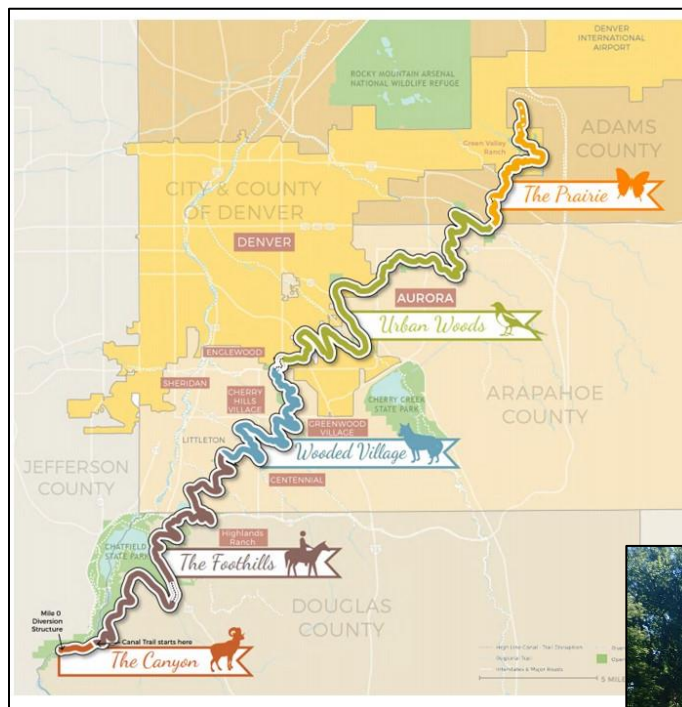
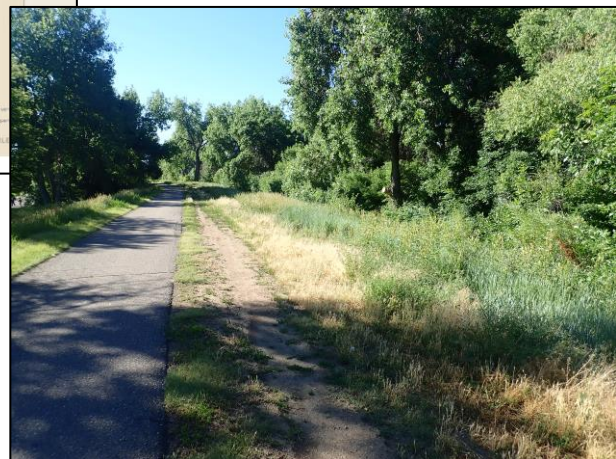


Figure 4. There is large-scale variation in plant communities along the Canal greenway, which threads from the foothills in the southwest to the plains in the northeast (left). There is also smaller scale variation that crosscuts the corridor, with plants experiencing different growing conditions depending on their proximity to the trail and the Canal bed (below).

**Map adapted from High Line Canal Conservancy.*

trail corridor, with plants growing nearer to the Canal bed experiencing different growing conditions than plants growing further from the Canal (Figure 4). Additionally, management practices associated with the



Canal trail and the “shoulder” (which directly abuts adjacent properties with a variety of land uses) shape environmental conditions experienced by plants.

To ensure a sufficient sampling effort, we qualitatively assessed spatial variation in vegetation during an initial reconnaissance of plant communities along the 66-mile Canal trail (inclusive of Denver Water’s 100-foot right-of-way) over three weeks in April 2018. Gardens botanists walked the entire trail, documenting informative geographic and botanical characteristics within the Canal right-of-way at 0.25-mile intervals. Information from the reconnaissance was used to determine a suitable number of survey locations.

From May 7th to September 28th 2018, the field team surveyed a random subset of 45 of the Canal trail’s 66 miles using the permanent mile markers as origin points (Figure 5). Visits to each of the five Character Zones were made every other week for a total of 11 weeks. The field team



Figure 5. Mile markers served as the starting point for each day’s plant survey effort. We surveyed 45 of the Canal trail’s 66 miles, covering nearly two-thirds of the trail-accessible portion of the greenway.

**Photo by Scott Dressel-Martin*

started in the Wild Canyon Character Zone on the Monday of each week and ended in the Prairie Retreat Zone on Friday. This generated a staggered sampling design in which a mile marker in each Character Zone was visited bi-monthly for the entire growing season. Locations in the shorter Character Zones (Wild Canyon and Prairie Retreat) were revisited several times over the season, while unique mile marker locations were visited on each survey excursion to the three longer Character Zones (Rolling Foothills, Wooded Village, and Urban Refuge). **In sum, the survey represents more than 850 hours of searching and collecting time over 57 days, covering nearly two-thirds of the trail’s 66-miles (Map 1).**

All plant species observed within the Canal right-of-way (including the Canal bed and bank, the trail margins, and the shoulder) were collected for later identification at the Gardens. Vegetation along the upper and lower bank frames were closest to the Canal bed, with those

occurring along the low bank frame and Canal bed most directly influenced by the Canal's hydrologic regime. Plants growing along the Canal trail were spatially removed from the Canal proper, and were instead most heavily influenced by trailside management practices and recreational use. Vegetation on the shoulder abutted land adjacent to the Canal corridor and

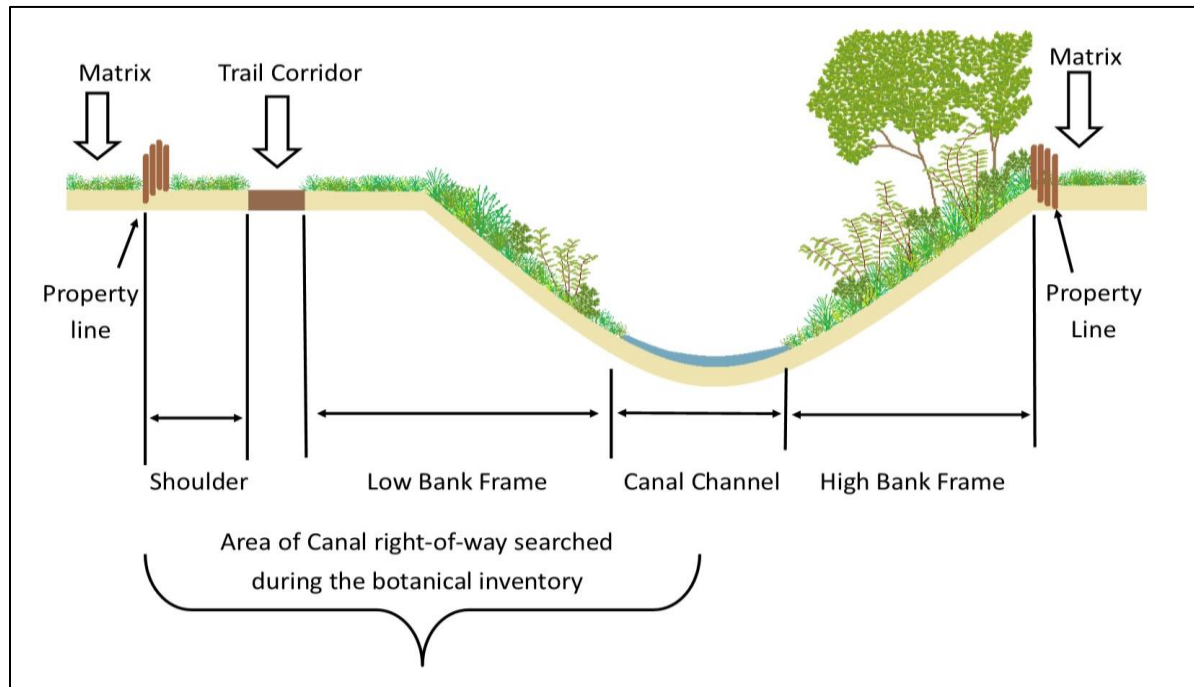


Figure 6. Schematic of the portions of the Canal right-of way searched during the 2018 botanical inventory. The “matrix” areas represent variable land use types abutting the Canal search area.

was likely influenced by land use practices on those properties (Figure 6).

Plant species identification and curation

Plant specimens were pressed and dried for long-term curation at the Kathryn Kalmbach Herbarium at the Gardens. Naturally occurring (non-cultivated) plants were identified using several taxonomic keys^{4,5,6,7,8,9}. Cultivars such as apples and crabapples (*Malus* sp.), hawthornes (*Crataegus* sp.) and roses (*Rosa* sp.) have many varieties and often hybridize, making them sometimes difficult to reliably distinguish. Thus, in some cases we chose to be conservative and identify cultivated specimens only to genus. Cultivars were identified¹⁰ with the expert guidance of Master Gardener Nancy Downs.

Each specimen will be linked in perpetuity with its associated geographic and biological data, including date and location of collection, as well as information about soil texture and associated plant species (Figure 7). The interactive online

Figure 7. Plant specimens collected along the Canal will be preserved in perpetuity as museum objects. They will be made physically and digitally available for research and education purposes.

**Photo by Scott Dressel-Martin*



species list includes species descriptions and pictures that can be used as an education and outreach tool. The full species list of each Character Zone can be found in Table 1 at the end of the document. The link to the online list is in **Summary of Findings** at the end of the document.

Regional description of plant communities

To place information about the Canal's plant communities into a regional context, we mapped the trail and its five Character Zones¹¹ in relationship to Level IV Ecoregion type^{12,13} (Map 2), vegetation cover¹⁴ (Map 3), and land use intensity^{11,14} (Map 4). Ecoregions are geographically and ecologically defined areas that share physical and climatic characteristics which support particular "natural" vegetation types (i.e., those present before European settlement). We present vegetation cover and land use intensity maps to broadly interpret the degree to which the Canal has undergone changes that would disrupt expected vegetation types. Taken together, this body of contextual information from the literature informs our field observations of plant communities currently found along the Canal.

We structure discussion of our field observations using several taxonomic and ecological metrics (described below) to highlight important biodiversity patterns. We complement these metrics with illustrative examples based on our observations of particular species in the field.

Species richness

Species richness, or the number of species that occurs in an area of interest, is the foundational piece of information used to describe plant biodiversity. It also serves as the primary data from which other descriptive metrics are derived. We present species richness for the whole Canal

corridor, as well as by Character Zone. We also break species out by their status as native, introduced, or introduced for horticultural uses.

Species status as native, introduced, or cultivated

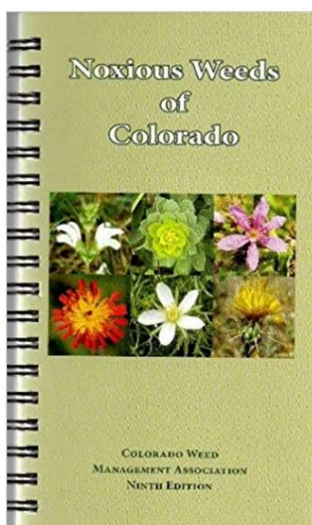
Determining whether a species is native or introduced provides insight into its ecological role within an ecosystem. Native species occur “naturally” in a given ecosystem, meaning they were not accidentally or intentionally introduced in a way that artificially overcomes dispersal



Figure 8. Introduced species, such as Tatarian honeysuckle (left), can disrupt ecological processes if they aggressively spread and displace native species. This shrub, which occurs on the Canal corridor, reduces biodiversity in northeastern forests¹⁵. It is difficult to predict whether it could also become problematic in Colorado.

barriers (with humans being the main mode of introduction of non-natives). Native species have evolved in place over millennia, developing ecological interactions with other plants as well as animals over time. Conversely, introduced species represent novel occurrences within a plant community, which can

disrupt ecological processes through a variety of mechanisms, especially if non-natives aggressively spread (Figure 8). Intentional introductions are made for a variety of reasons. Here, we differentiate introduced garden and landscaping plants from other introduced species, because we noticed that cultivars seemed especially common in



*Figure 9. Noxious weeds in Colorado have a listing status to guide management. **List A** species represent incipient invasions and managers must try to eradicate them. **List B** species are more widespread, precluding eradication, but management plans are in place. **List C** species are so widespread that containment decisions are left to individual jurisdictions. We report the listing status of Canal species in Table 1.*

the Wooded Village and Urban Refuge Zones. We hope this differentiation provides insight to those charged with managing introduced species along the Canal.

We also denote which introduced species have a noxious listing status in Colorado (Figure 9; Table 1). We identified non-cultivated species as native or introduced using Ackerfield (2015).

Coefficient of Conservatism

The Coefficient of Conservatism¹⁶ is an indicator that uses plant species composition to describe an area's ecological condition (Figure 10), which can range from degraded to fully intact. Ecological processes can break down in highly degraded systems, for example if disturbance from development causes several species that attract pollinators to fall out of a community.



Figure 10. Some plant species are highly tolerant of disturbance (left panel) while others require at least partially intact natural areas to persist (right panel). The composition of plants at a site can thus be used to estimate the condition of the site, which can range from highly degraded to completely intact. Intact sites have incurred very little to no human disturbance – a condition that rarely exists in modern times.

Two basic concepts underlie development of the conservatism indicator: 1) plant species differ in their tolerance to various types and magnitudes of disturbance and 2) plant species differ in the degree to which they depend on fully intact habitat. In this context, “fully intact” habitat reflects conditions prior to European settlement, which ushered in rapid changes in land use and disturbance regimes, as well as the introduction of non-native species. Species are assigned a ranking from zero to one. Those on the low end of the continuum show little fidelity to natural areas, while those on the high end occur only in relatively pristine sites. The indicator rankings are defined as follows:

- 0-3: Introduced species, or native species that occur in moderately to highly degraded sites
- 4-6: Native species that show some affinity to natural areas and are often dominant or are present across a wide range of habitats and environments
- 7-8: Native species associated mostly with natural areas, but that can sometimes persist in degraded habitat
- 9-10: Native species that tolerate very little or no habitat degradation

Coefficients were not available for all species, and patterns presented in the discussion should be interpreted in this light.

Wetland Indicator Status

Plant species fall along a continuum in terms of their dependence on wetland habitat, ranging from fully dependent on wetlands to almost always occurring in uplands. The Canal has created a riparian-like habitat that moves through an otherwise semi-arid landscape (Figure 11). As such, it is of interest to determine which species are most dependent on the Canal's hydrology to maintain populations over the long-term. We used the National Wetland Plant List developed for the arid west¹⁷ to rank plant species along a continuum as follows:



Figure 11. An example of the variation in hydrologic conditions experienced by plants growing along the Canal margin versus at the top of the lower bank frame by the trail.

Obligate (OBL):	Almost always a hydrophyte, rarely found in uplands
Facultative Wetland (FACW):	Usually a hydrophyte but occasionally found in uplands
Facultative (FAC):	Commonly occurs as either a hydrophyte or non-hydrophyte
Facultative Upland (FACU):	Occasionally a hydrophyte, but usually occurs in uplands
Upland (UPL):	Rarely a hydrophyte, almost always found in uplands

Statistical analyses used to interpret patterns associated with species richness, C value distributions, and Wetland Indicator Status are presented in Appendix 1.

RESULTS AND INTERPRETATION

Regional context

The High Line Canal Trail passes through three **Ecoregions** moving from the southwest in Wild Canyon to the northeast in Prairie Retreat: Foothill Shrublands, Front Range Fans, and Flat to Rolling Plains (Figure 12; Map 2). In addition to this large-scale turnover in Ecoregion type, there is variation in vegetation cover and land use intensity across the 66-mile stretch. Broadly speaking, the southwestern (Wild Canyon and part of Rolling Foothills) and northeastern (Prairie Retreat) extents of the Canal trail have higher vegetation cover (Map 3) and lower land use intensity (Map 4) than does the core of the trail, which runs through the northeastern extent of Rolling Foothills, and all of Wooded Village and Urban Refuge. Differences in this surrounding land use matrix likely shape which species are currently or potentially found on the Canal corridor.



Figure 12. Panorama of transition from the Foothills Shrubland Ecoregion to the Front Range Fans and Flat to Rolling Plains Ecoregions through which the Canal passes. The picture illustrates the critical nature of watercourses (in this case, Deer Creek) in an otherwise semi-arid landscape. Also shown is encroaching housing developments, which are one of the main threats to Front Range ecosystems.

**Photo by Scott Dressel-Martin*

Wild Canyon is the only Canal Zone that occurs in the **Foothill Shrublands** Ecoregion (Map 1). These shrublands occur from 6000-8500 feet, with Wild Canyon occurring at the lowest elevation of this Ecoregion type, at the transition between foothills and plains. Wild Canyon is the only Character Zone with hills and ridges. It is also on average relatively cool (January temperature min/max = 10/36 °F; July temperature min/max = 46/84 °F.), has a shorter growing season (75-100 frost free days), and averages a higher maximum annual precipitation (12-20 inches annually) than the Ecoregions to the east. Intact Foothill Shrublands are typically characterized by woodlands of Gambel's oak and pinyon-juniper, which are often interspersed with shrubs such as skunkbush, serviceberry, fringed sage, and rabbitbrush. Common native grasses include blue grama, Junegrass, western wheatgrass, and Indian ricegrass. The main land uses across the Ecoregion include rangeland and wildlife habitat. Vegetation cover and land use (Maps 3 and 4) corroborate the ecoregional description, showing that shrubland and tree canopy cover are predominant around Wild Canyon while the intensity of land use is low (although development is expanding rapidly along the Front Range).

The Rolling Foothills Zone passes through the **Front Range Fans** Ecoregion into the **Flat to Rolling Plains** Ecoregion. Continuing northeast, the rest of the Canal greenway, including the Wooded Village, Urban Refuge, and Prairie Retreat Zones, is in the Flat to Rolling Plains Ecoregion. The Fans Ecoregion is at higher elevation (4800-5300 feet), has greater topographic relief (scattered low hills), and is on average cooler (January temperature min/max = 12/40 °F; July temperature min/max = 56/88 °F; frost free days = 120-140) than the Plains Ecoregion (elevation, 3600-5700 feet; January temperature min/max = 16/46 °F. July temperature min/max = 62/94 °F; frost free days 140-180). Average annual precipitation in the Fans (14-18 inches) and Plains (12-18 inches) Ecoregions is similar. The natural vegetation of the two Ecoregions is also similar, consisting of shortgrass prairie species such as blue grama, buffalograss, Junegrass, and western wheatgrass. The Fans Ecoregion also includes some patches of mixedgrass prairie, which supports species like big bluestem that require higher soil moisture levels than relatively drought-adapted shortgrasses such as blue grama. Both Ecoregions are now characterized by urban and residential land use with some irrigated cropland. A transition into more predominant agricultural use occurs at the northeastern extent of the Canal in the Prairie Retreat Zone (Map 4).

Field observations

We documented 438 species across the entire 66-mile stretch of greenway, which represents 16% of the total number of species that occur in the state. The species comprise 78 families (55% of all families found in CO) and 288 genera. The most species-rich families were the Poaceae (the grasses, with 75 species, or 17% of all species) and Asteraceae (a diverse

group containing asters and sunflowers, with 67 species, or 15% of all species). Other well-represented and familiar families include the rose (Rosaceae), pea (Fabaceae), mustard (Brassicaceae), and mint (Lamiaceae) families (Figure 13). Importantly, approximately 50% of the plant species documented during the Canal survey could not be readily linked to any curated collections. The project thus represents a valuable addition to the documented flora of the region.

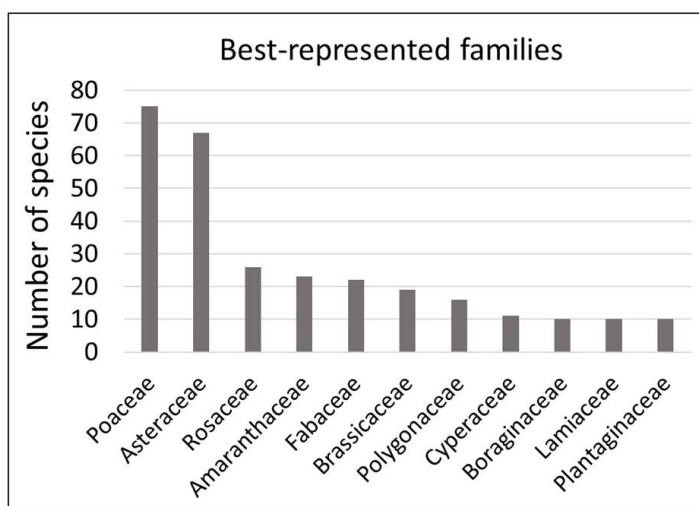
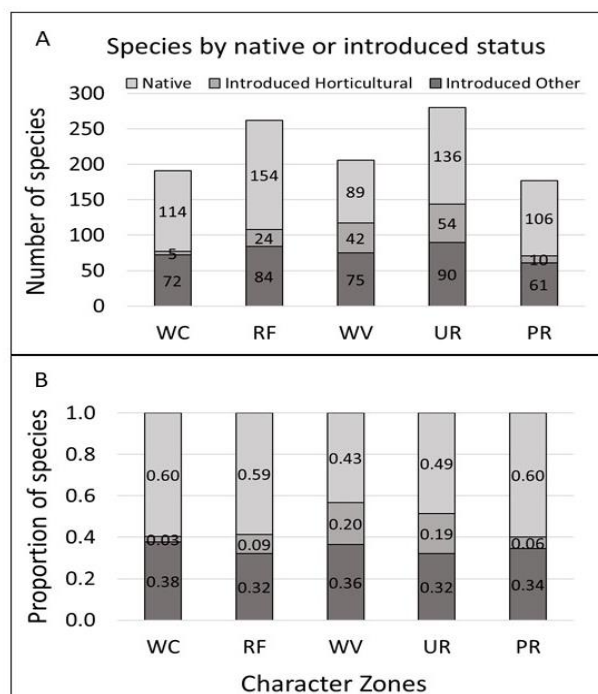


Figure 13. Families that contained at least 10 species. The grass (Poaceae) and aster (Asteraceae) families had significantly more species than other families, indicating an important contribution to species diversity along the Canal.

There is variation in both the overall number of species per Character Zone, and the proportion of species that are native, introduced, or introduced for horticultural purposes (Figure 14;

Figure 14. The number (panel A) and proportion (panel B) of native and introduced species occurring in each of the Canal's Character Zones. Introduced species are broken out by whether they were introduced for horticulture or were otherwise introduced. Two main findings are 1) the Wild Canyon Zone is relatively species rich for its small size and 2) the Canal greenway harbors a significant component of introduced species, especially in the Wooded Village and Urban Refuge Zones. WC = Wild Canyon; RF = Rolling Foothills; WV = Wooded Village; UR = Urban Refuge; PR = Prairie Retreat.



Appendix I). The two largest Zones, Rolling Foothills (20 miles long) and Urban Refuge (33 miles long), contain the most species (Figure 14A). This partly captures a sampling effect in that a larger area is expected to harbor more species. Interestingly, however, the very small (<2 miles long) Wild Canyon Zone is quite species rich, with species numbers similar to those found in the substantially larger Wooded Village (13 miles) and Prairie Retreat (5



Figure 15. Viewshed of the Foothills Shrubland habitat surrounding the Wild Canyon Zone (above). A native tree (Rocky Mountain maple, top right) and shrub (mountain mahogany, bottom right) found only in this Zone are indicative of its unique plant community relative to the rest of the Canal.

**Photo by Scott Dressel-Martin*



Photo by Tony Frates

miles) Zones. The Wild Canyon, Rolling Foothills, and Prairie Retreat Zones had a higher proportion of native species (~60%, Figure 14) than the Wooded Village (43% native) and Urban Refuge (49% native) Zones. For example, we documented many native woody species that are representative of intact Foothills Shrubland in Wild Canyon (Figure 15). These include Rocky Mountain maple and several native shrubs that provide food and cover for wildlife, including mountain mahogany, white squaw currant, and California brickellbush.

Figure 16. Blue ridge carrion-flower (top) and wishbone fiddleleaf (bottom) are uncommon species that were both documented in the Wild Canyon Zone.



Inset photo by Paul Rothrock

Photo by Sue Carnahan

The Wild Canyon Zone also harbored two of the most interesting species found during the survey (Figure 16). Blue ridge carrion-flower has only been documented in seven counties in the state and is uncommon in the foothills of the Front Range. Its occurrence in Colorado is at the western-most extent of its North American distribution⁴. Wishbone fiddleleaf has also been documented in only 7 counties in the state and has not been previously documented in Douglas County. It is found in sandy soils and is predominantly found in relatively intact habitat⁴.

In all Zones, we found native species that were historically abundant along the Front Range prior to urbanization, including most of the species listed as



Figure 17. Moving clockwise: bush morning glory, dwarf morning glory, and dotted gayfeather. These showy native plants are important components of plant biodiversity in relatively intact grasslands further east. They occur in remnant populations along the Canal.

indicators of the three Ecoregions (see **Regional Context**).

For example, in sandy stretches of the Rolling Foothills Zone, we found several showy natives that are attractive to pollinators (Figure 17) and that would historically have been a sub-dominant component of the Plains habitat.

There are also multiple occurrences of native grasses along the Canal, including historically dominant blue grama, buffalograss, western wheatgrass, and sand dropseed (Figure 18). While it is encouraging to see many native

Figure 18. An expanse of native buffalo grass along the Canal trail. Areas with buffalo grass are small and few compared to the much more abundant introduced grasses (e.g., smooth brome and Kentucky blue grass.) that line the corridor.



species on the Canal, their populations are reduced, often with only a few individuals occurring in a larger matrix of introduced species.

The lower percentage of natives in the Wooded Village and Urban Refuge Zones is due to the disproportionately strong signal of introduced horticultural plants in these two Zones (Figure 14). These Zones are located at the core of

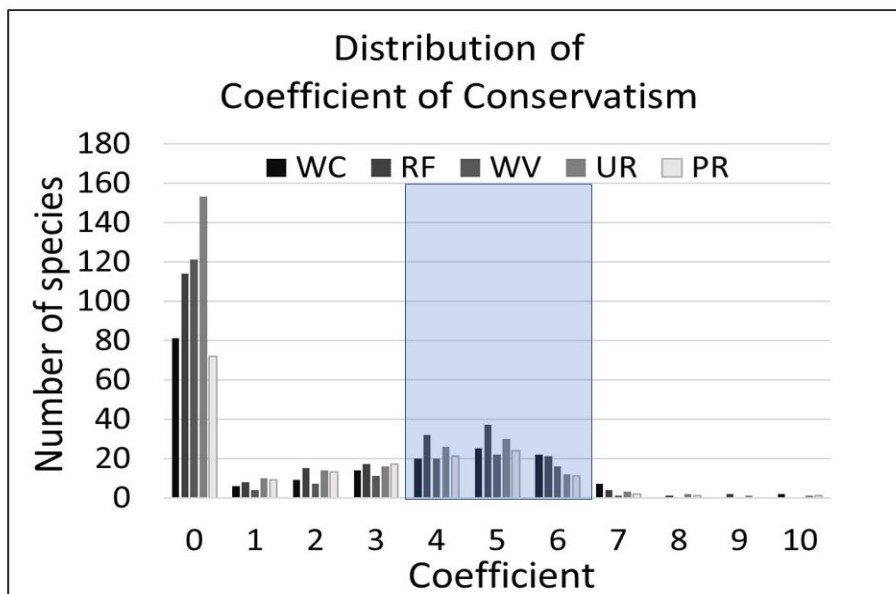


Figure 19. European spindletree, one of the introduced cultivated species that was observed growing on the Canal bank (suggesting that it has escaped from nearby landscaping and onto the Canal waterway).

the Trail, where land use intensity (urbanization) is high (Map 4). Given that we did not collect plants growing on private property beyond the Canal right-of-way, there appear to be more garden and landscaping plants moving onto the Canal greenway in these more urbanized Zones. While most of the cultivated species were found on the “shoulder” (i.e., closer to adjacent private property than the Canal bed) several were found on the Canal bank. These include European spindletree, wayfaring tree, and Tatarian honeysuckle (or twinsisters) (Figure 19).

The Coefficient of Conservatism provides another way to understand the condition of the Canal greenway relative to

Figure 20. The Canal contains many species that occur in degraded areas (values of 0-3), but also an appreciable number of natives (shaded range of 4-6) that require some degree of natural habitat to persist. These native species have the highest potential to support the ecological function of the greenway.



the “natural” or intact habitat that existed prior to European settlement. Examination of the distribution of C values underscores the high frequency of introduced and native species that tolerate highly disturbed areas (range of 0-3, Figure 20; also

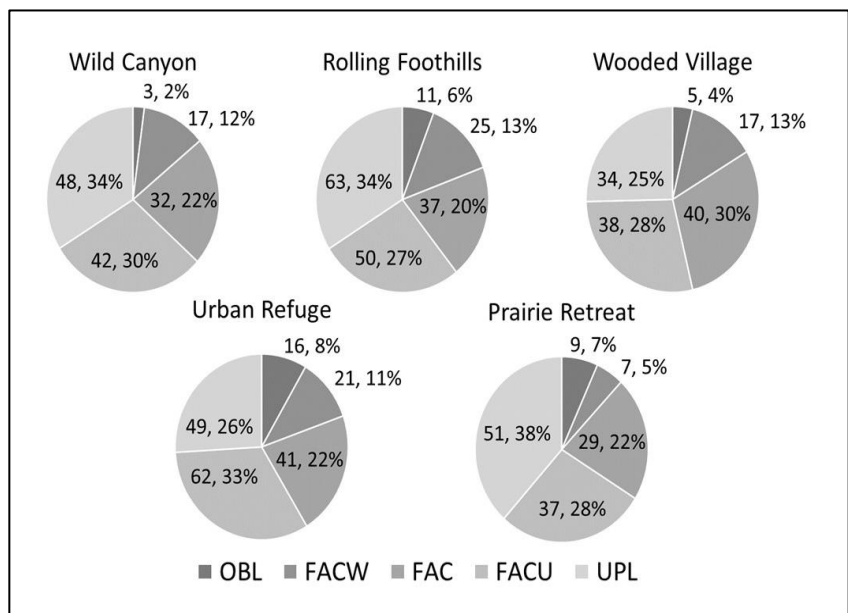


Figure 21. Several native species that require relatively “natural” habitat to persist were noticeably abundant along the Canal. From left to right, these include American plum, late goldenrod, and smooth white American aster.

compare to Figure 10, left panel). Still, in all Character Zones, there is an appreciable number of species that are to some degree dependent on natural areas (shaded range of 4-6, Figure 20; also compare to Figure 10, right panel). Species that fall within this middle range have great potential to sustain the long-term ecological functioning of the corridor because 1) they tolerate a wide range of conditions, making them relatively resistant to environmental change and 2) they have evolved in place over millennia, developing important ecological functions and interactions with other native species (see Figure 21 for example natives with a C value of six; also see Table 1 for each species and its associated Coefficient).

A major question for the Canal going forward is how changes to its hydrology might affect the plant communities along its

Figure 22. Number and percentage of plant species in each Character Zone according to Wetland Indicator status, ranging from obligate to wetlands (OBL) to almost always occurring in uplands (UPL). See text for definitions.



banks. We found that the majority (>50%) of species in all Character Zones are plants that are always or predominantly found in uplands (see FACU and UPL percentages, Figure 22). In contrast, the percentage of species that are always or almost always found in flooded or seasonally flooded (wetland) conditions ranges from 12 to 19% depending on the Zone (see percentage OBL and FACW in Figure 22). Of note is that of the 27 species of obligate wetland plants, 48% are grasses, sedges, or rushes (Table 1), suggesting this group (the “graminoids”) will be disproportionately affected by potential changes in the Canal’s hydrology (Figure 23).

Several native woody species along the Canal, including cottonwoods, willows, green ash, snowberry, and American plum, are considered facultative wetland species (Table 1). These and other facultative wetland species are likely to be impacted by changes to the hydrologic regime, although some individuals can persist in more upland locations

(unlike obligate wetland species). There is also a substantial proportion of plants that can occur in either wet or dry conditions (ranging from 20-30% depending on Zone; see FAC in Figure 22), indicating that many species can tolerate a reasonable degree of variation in the Canal’s hydrologic regime. (See Table 1 for full listing of species to which Wetland Indicator Status could be assigned).

Species that are obligate or facultative wetland of course grow closer to the Canal bed than species that are not dependent on the water. Water-loving trees and shrubs that line the banks of the Canal often intermingle with a lush, green understory of grasses and sedges. This creates a visually obvious distinction in plant assemblages that crosscut the Canal corridor.



Figure 23. The percentage of species that are reliant upon wetlands is similar among Zones. However, the relative abundances of these species vary, and they are patchily distributed. For example, most wetland species in the Prairie Retreat Zone occurred in a single wetland (left), while the obligate wetland species Emory’s sedge (right) was widespread and abundant along the Canal margins in the Woodland Village and Urban Refuge Zones.

Less obvious may be differences between plants that are present on the Canal side of the trail versus on the shoulder side of the trail (see schematic in Figure 6). We found a substantial number of cultivated species growing on the shoulder, where adjacent gardens were



Figure 24. A cultivated onion (genus Allium) observed growing in a garden that shares a porous border with the Canal trail (left); escaping from a yard (middle); and spreading down the bank of the Canal (right).

encroaching onto the Canal right-of-way (Figure 24). There are also many introduced landscaping trees, such as honey locust, Kentucky coffee tree, and various apples and hawthornes, planted on the shoulder. It is difficult to predict which, if any, of these planted species might escape cultivation (i.e., establish self-sustaining populations that do not require human care) and potentially spread. However, several garden plants were observed growing near the Canal bed (e.g., Figure 19). Research shows that cultivated plants are increasingly escaping from gardens into ecosystems where they are not native¹⁸. Thus, managers and others charged with sustaining the Canal’s natural botanical character should be aware of this potential challenge.

Finally, while it is outside the purview of this study to make specific management recommendations, we would like to highlight some observations. First,

Figure 25. Mowing and social trails (left) create disturbed ground that promotes introduced “weeds” like storksbill (top right) and dwarf mallow (bottom right).

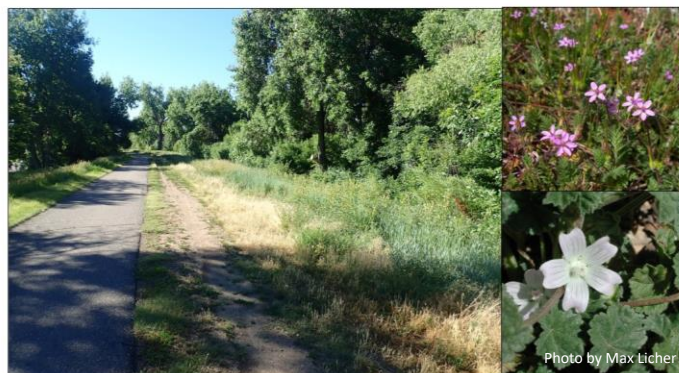


Photo by Max Licher

mowing and other forms of disturbance, including pedestrians and bikers using “social trails”, lend to the persistence of introduced “weeds” (disturbance-adapted plants) along much of the trail margin. High light levels and bare ground often favor such species, and managers should take this into consideration when determining mowing practices. Second, there appear to be



different seeding practices along the Canal corridor, with some stretches planted in native grasses (blue grama and sideoats grama) and others planted in introduced rye. We suggest that managers from different jurisdictions share information about seeding practices and make their best effort to plant native species. The Landscape Guidelines being developed by the High Line Canal Conservancy will provide excellent guidance on this matter.

Figure 26. Some stretches of the Canal appear seeded with natives like blue grama and sideoats grama (top left and right) while others are seeded with introduced species like cultivated rye (bottom). When feasible, efforts should be made to seed with native species.

Summary of Findings

The assemblage of native and introduced plant species documented along the Canal is typical for modern-day landscapes that occur in urbanized areas. The greenway represents a “novel ecosystem” of sorts, functioning as an ecological portmanteau of past and present conditions.

We stress here that alteration from historic conditions does not render the Canal useless as a natural resource. In fact, it is critical habitat compared to the surrounding, highly built land use matrix. The goal in comparing the Canal’s plant communities to a baseline, or “pristine”, degree of naturalness is to ground its long-term sustainability in an ecologically informative context.

Some key findings of the survey are:

- The canal provides habitat for nearly 450 plant species in an otherwise highly developed (or developing) region.
- The species composition is a mix of native and introduced species, with the Wooded Village and Urban Refuge Zones harboring more introduced garden and landscaping plants than the other Zones.
- Some introduced cultivated plants are moving down onto the Canal from the surrounding land.
- The Wild Canyon Zone has a high number of species for its size and harbors some uncommon native species that are of ecological interest.
- The Canal still retains an appreciable proportion of native plants that require some degree of naturalness to persist (i.e., these species would disappear under extreme disturbance).
- Most of the species along the greenway do not depend on wetland habitat to survive, but in every Zone there are species that require at least seasonal flooding to survive.
- Managers should be aware of best practices for maintaining the “naturalness” of the corridor, which includes mitigating disturbance and seeding in native species whenever possible.
- Drawing contrasts among Character Zones is informative, but it should be appreciated that the Zones do not have strict ecological boundaries; they instead fall along a continuum of vegetation types and land use.

We hope the High Line Canal Conservancy finds the digital species list a useful tool for teaching people more about the ecology of the High Line Canal. The species list can be found here:

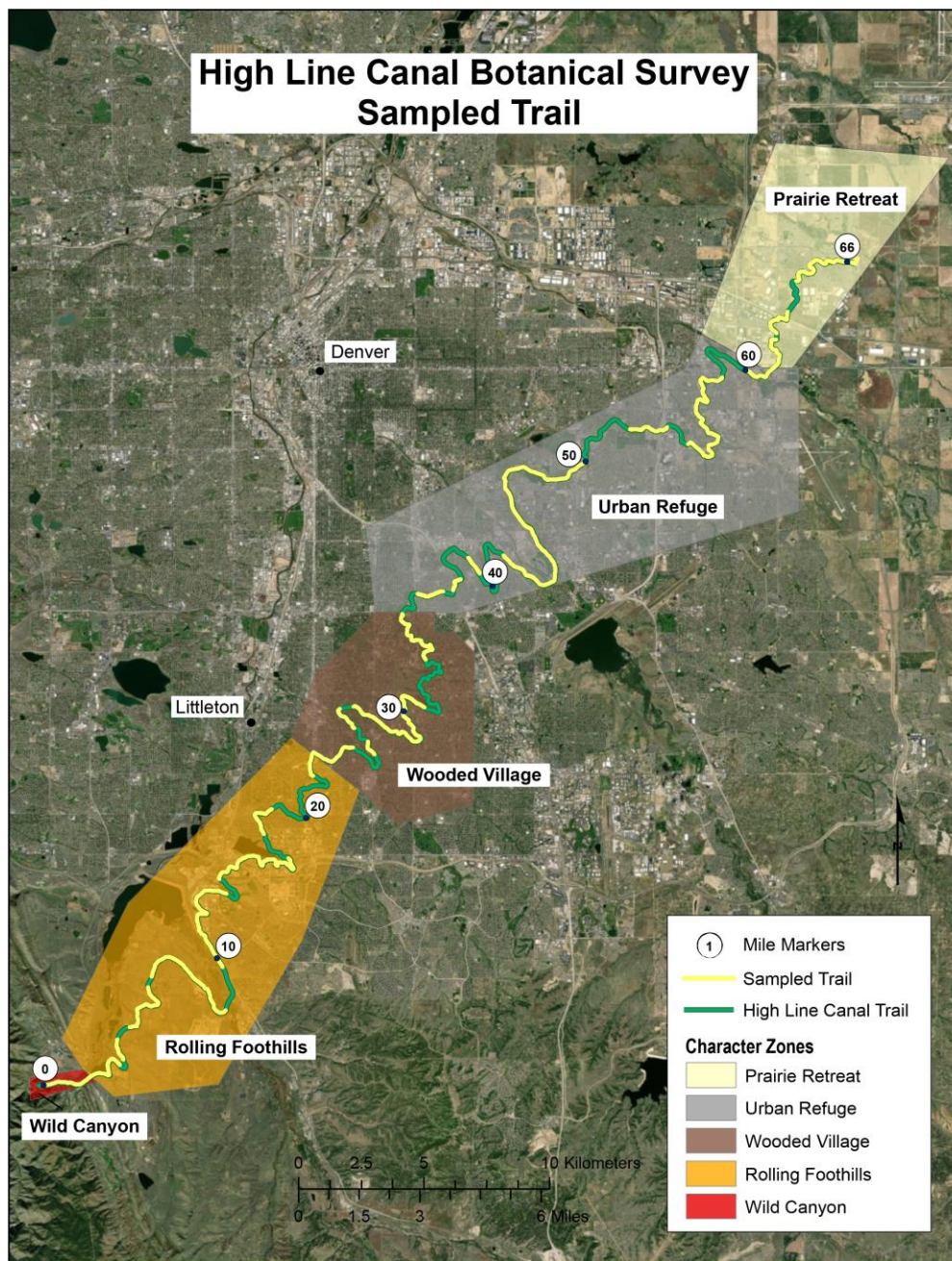
<http://swbiodiversity.org/seinet/checklists/checklist.php?clid=5349&pid=77>

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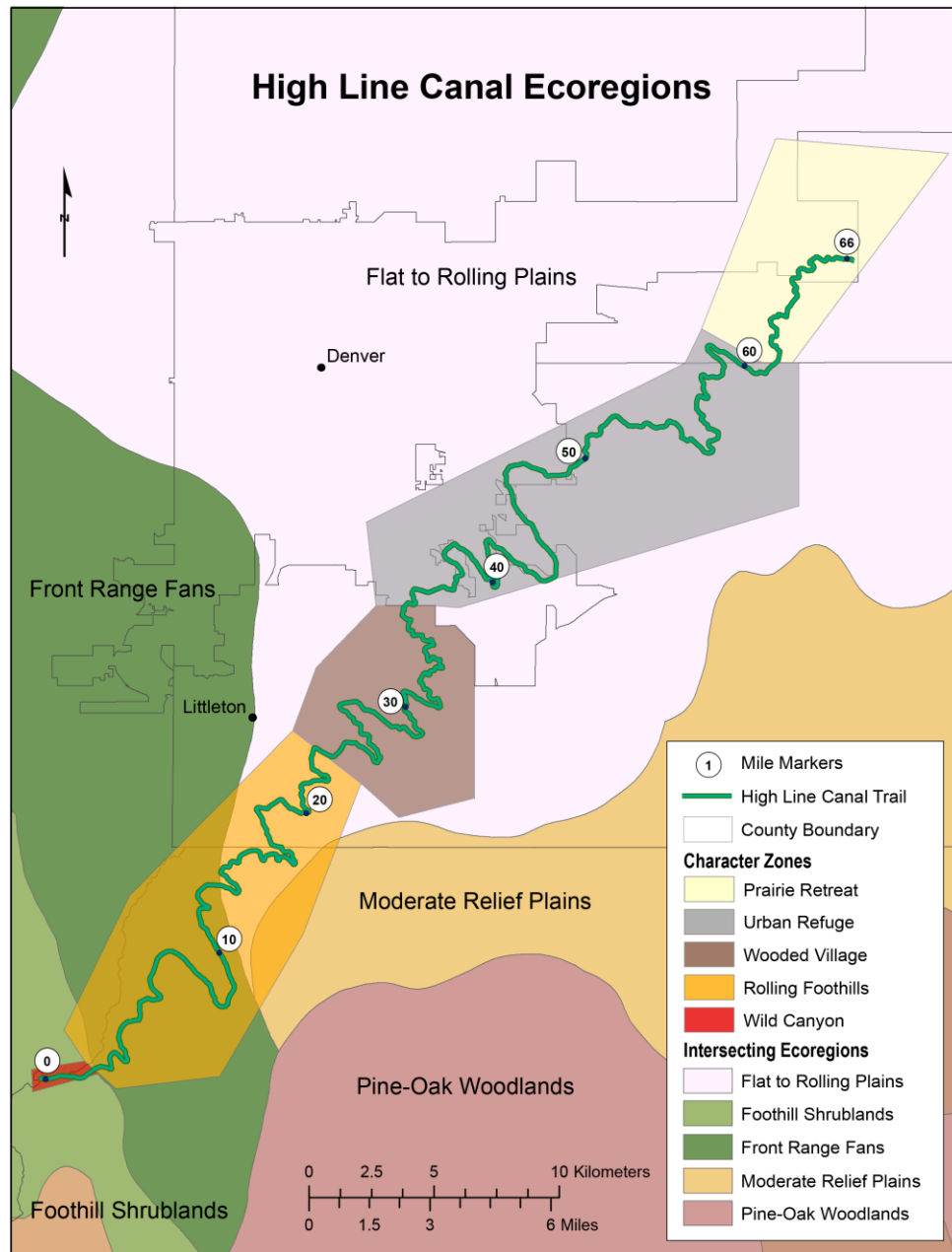
Map 1



Map 1. High Line Canal trail corridor and Character Zones with portions of sampled trail highlighted in yellow. Plant species were documented along nearly two-thirds of the 66-mile trail.

*Map created by Jodie Kirschner

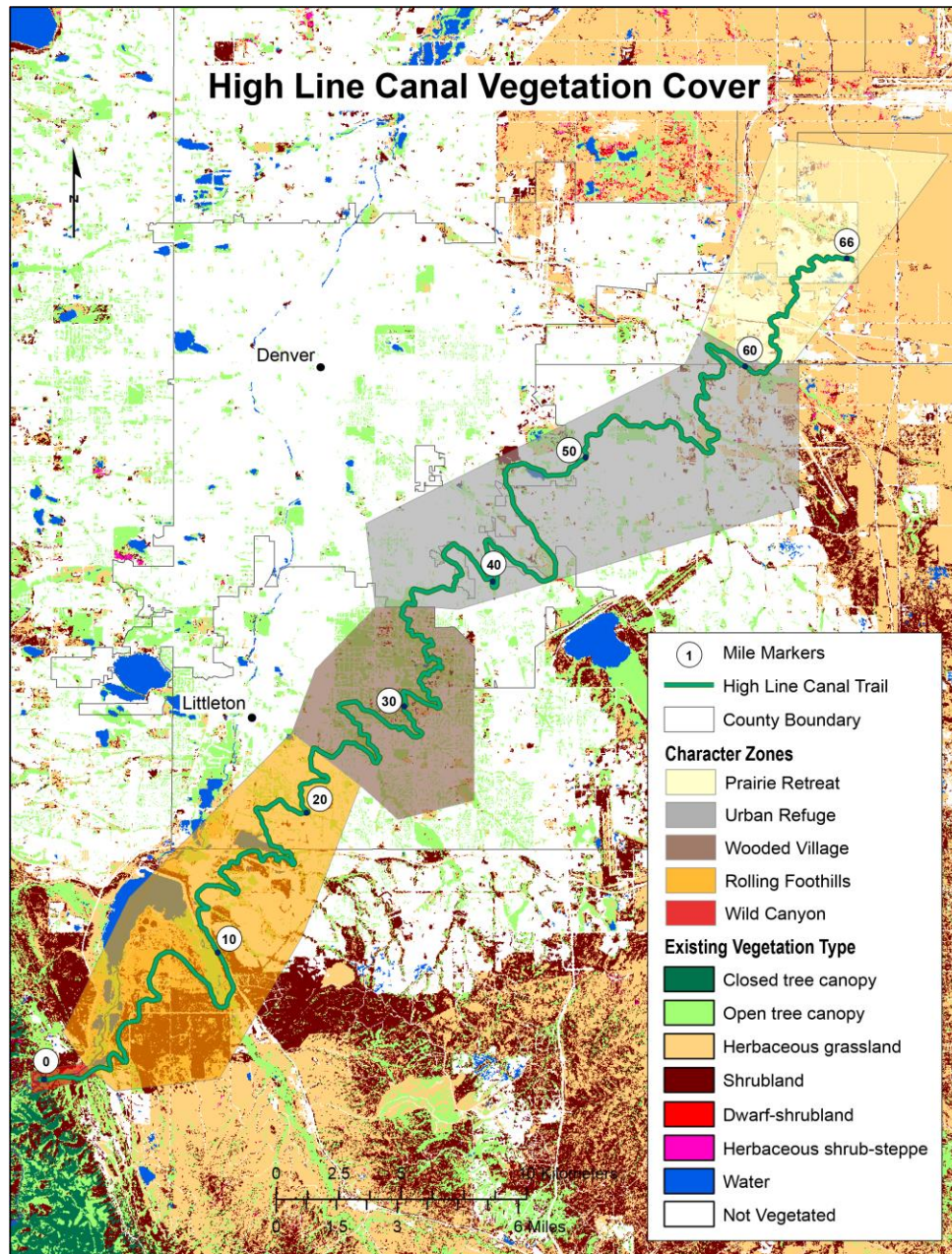
Map 2.



Map 2. High Line Canal trail corridor and Character Zones in relationship to Level IV Ecoregions. The trail passes through Foothill Shrublands, Front Range Fans, and Flat to Rolling Plains. Comparing the Canal's contemporary plant communities to historic (pre-European settlement) Ecoregion communities provides a baseline for interpretation of the Canal's ecology.

*Map created by Jodie Kirschner

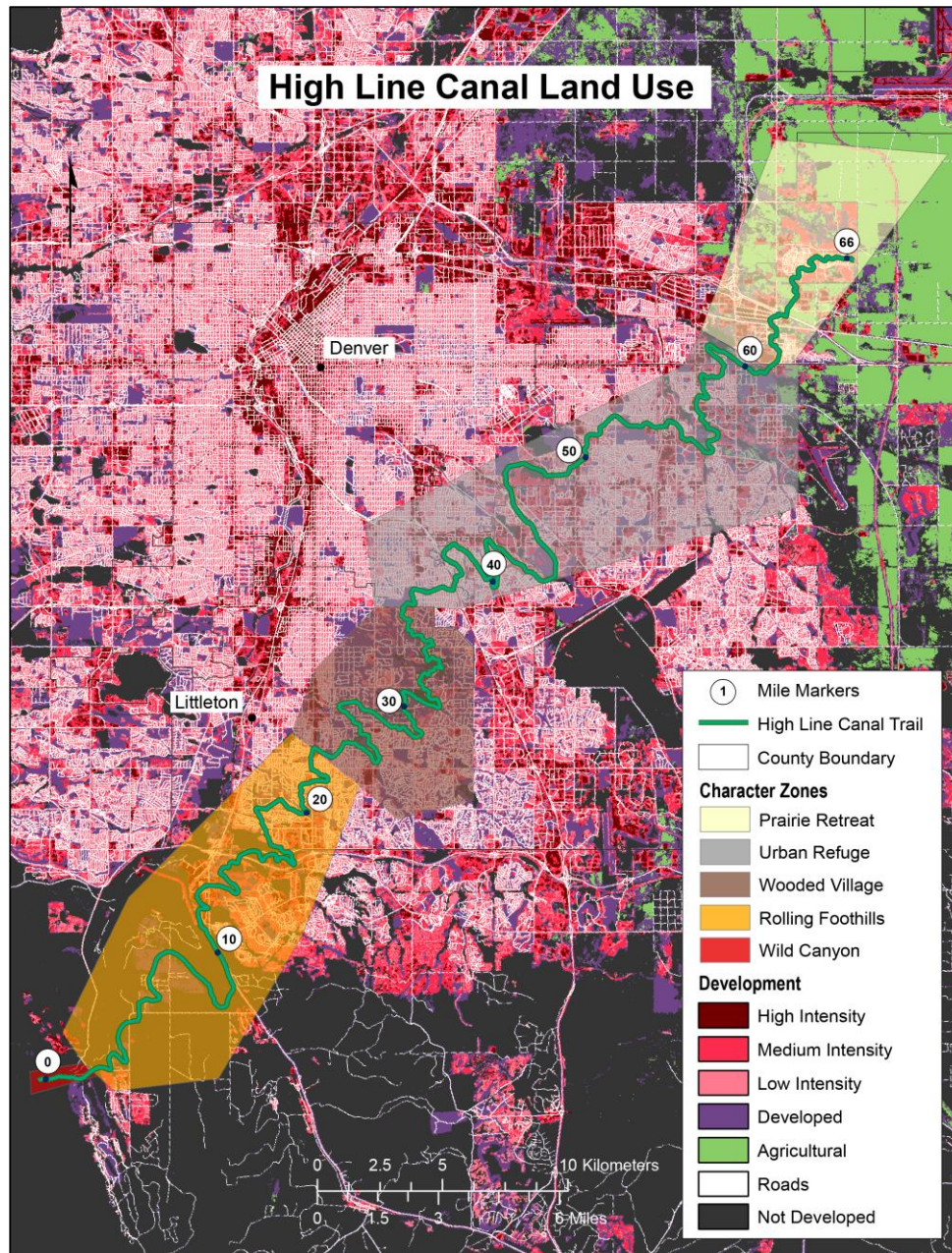
Map 3.



Map 3. High Line Canal trail corridor and Character Zones in relationship to vegetation cover. Wild Canyon, the southwestern extent of Rolling Foothills, and Prairie Retreat have higher vegetation cover than Wooded Village and Urban Refuge. Such variation in land use affects the regional plant species pool, which in turn likely affects species composition on the Canal trail.

*Map created by Jodie Kirschner

Map 4.



Map 4. High Line Canal trail corridor and Character Zones in relationship to land use. This map complements Map 3 of vegetation cover, illustrating that areas lacking vegetation cover are highly urbanized.

*Map created by Jodie Kirschner

APPENDIX I: STATISTICAL METHODS AND RESULTS

Methods

All statistical analyses were conducted using SAS v. 9.4 (SAS Institute, Cary NC). We used Chi-square (χ^2) tests of independence to explore variation in species richness, Coefficients of Conservatism, and Wetland Indicator Status among Character Zones. These tests are useful for determining whether the frequency of observations differs among groups (in this case, among Zones). We first tested whether the number of species that were native and introduced differed by character zone (Figure 14A). Introduced species were broken out by whether they were introduced for horticultural purposes (as garden or landscaping plants) or introduced by other means (both accidental and intentional). We also tested whether the distribution of C values (Coefficient of Conservatism; Figure 20) and Wetland Indicator Status (Figure 22) differed among Zones. For all χ^2 analyses we used the “proc freq” command in SAS. The unit of replication for data input was mile markers within Zones.

Results

Character Zones contained significantly different numbers of species that were native, introduced, or introduced for horticultural purposes ($\chi^2 = 68$, $P < 0.0001$). In contrast, the number of plant species assigned C values of 0-10 was similar among Zones ($\chi^2 = 27$, $P = 0.87$), as was the number of species assigned Wetland Indicator Values ($\chi^2 = 24$, $P = 0.10$) ranging from obligate wetland to upland.

Table 1. List of plant species found along the High Line Canal during the 2018 botanical survey by Denver Botanic Gardens. Species are listed by Character Zone with their status as native, introduced, or cultivated; Coefficient of Conservatism; and Wetland Indicator Status (see report for definitions). The link to the accompanying digital list with pictures and species descriptions can be found in *Summary of Findings* in the full report.

Bolded species are Colorado List B noxious weeds.

Italicized species are Colorado List C noxious weeds.

NA = no data available.

Wild Canyon Zone

<u>Family</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Status</u>	<u>Coefficient of Conservatism</u>	<u>Wetland Status Indicator</u>
Amaranthaceae	Amaranthus powellii S. Watson	Green Amaranth	Native	5	NA
	Chenopodium simplex (Torr.) Raf.	Giant-Seed Mock Goosefoot	Native	2	NA
	Froelichia gracilis (Hook.) Moq.	Slender Snake-Cotton	Native	4	UPL
	Kochia scoparia (L.) Schrad.	Mexican-Fireweed	Introduced	0	NA
	Salsola tragus L.	Prickly Russian-Thistle	Introduced	0	FACU
Anacardiaceae	Rhus trilobata Nutt.	Skunkbush Sumac	Native	5	UPL
	Toxicodendron rydbergii (Small ex Rydb.) Greene	Western Poison Ivy	Native	3	FACU
Apiaceae	Conium maculatum L.	Poison-Hemlock	Introduced	0	FACW
	Lomatium orientale Coult. & Rose	Oriental Desert-Parsley	Native	6	UPL
Apocynaceae	Apocynum androsaemifolium L.	Spreading Dogbane	Native	1	UPL
	Asclepias speciosa Torr.	Showy Milkweed	Native	3	FAC
Asparagaceae	Asparagus officinalis L.	Asparagus	Native	0	FACU
Asteraceae	Ambrosia psilostachya DC.	Perennial Ragweed	Native	3	FACU
	Ambrosia trifida L.	Great Ragweed	Native	0	FAC
	Artemisia campestris L.	Pacific Wormwood	Native	5	UPL
	Artemisia frigida Willd.	Prairie Sagebrush	Native	4	UPL
	Artemisia ludoviciana Nutt.	White Sagebrush	Native	4	FACU
	Bidens vulgata Greene	Tall Beggarticks	Native	NA	FACW
	Brickellia californica (Torr. & A. Gray) A. Gray	California Brickellbush	Native	7	FACU
	Carduus nutans L.	Nodding Plumeless-Thistle	Introduced	0	FACU
	Centaurea diffusa Lam.	White Knapweed	Introduced	0	NA

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	Cirsium arvense (L.) Scop.	Canadian Thistle	Introduced	0	FACU
	<i>Conyza canadensis</i> (L.) Cronquist	Canadian Horseweed	Introduced	0	NA
	<i>Dieteria bigelovii</i> var. <i>bigelovii</i> (A. Gray) D.R. Morgan & R.L. Hartm.	Bigelow's Tansy-Aster	Native	3	FACW
	<i>Ericameria nauseosa</i> (Pallas ex Pursh) G.L. Nesom & Baird	Rubber-Rabbitbrush	Native	3	UPL
	<i>Erigeron divergens</i> Torr. & A. Gray	Rough Fleabane	Native	4	NA
	<i>Grindelia squarrosa</i> (Pursh) Dunal	Curly-Cup Gumweed	Native	1	FACU
	<i>Helianthus annuus</i> L.	Common Sunflower	Native	1	FACU
	<i>Helianthus petiolaris</i> Nutt.	Prairie Sunflower	Native	2	UPL
	<i>Heliomeris multiflora</i> (A. Nels.) Yates	Nevada goldeneye	Native	4	UPL
	<i>Heliomeris multiflora</i> var. <i>nevadensis</i> (A. Nels.) Yates	Nevada goldeneye	Native	4	UPL
	<i>Heterotheca villosa</i> (Pursh) Shinnery	Hairy False Golden-Aster	Native	3	UPL
	<i>Lactuca serriola</i> L.	Prickly Lettuce	Introduced	0	FACU
	<i>Liatris punctata</i> Hook.	Dotted Gayfeather	Native	6	UPL
	Onopordum acanthium L.	Scotch-Thistle	Introduced	0	NA
	<i>Pericome caudata</i> A. Gray	Mountain Talleaf	Native	6	UPL
	<i>Senecio spartioides</i> Torr. & A. Gray	Broom-Like Ragwort	Native	5	UPL
	<i>Solidago gigantea</i> Aiton	Late Goldenrod	Native	6	FACW
	<i>Solidago missouriensis</i> Nutt.	Missouri Goldenrod	Native	5	UPL
	<i>Sonchus asper</i> (L.) Hill	Spiny-Leaf Sow-Thistle	Introduced	0	FAC

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Wild Canyon Zone

<u>Family</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Status</u>	<u>Coefficient of Conservatism</u>	<u>Wetland Status Indicator</u>
Boraginaceae	<i>Symphyotrichum falcatum</i> (Lindl.) G.L. Nesom	Rough White Prairie American-Aster	Native	4	FACU
	<i>Taraxacum officinale</i> F. H. Wigg.	Common Dandelion	Introduced	0	FACU
	<i>Tragopogon dubius</i> Scop.	Meadow Goat's-Beard	Introduced	0	NA
	<i>Cynoglossum officinale</i> L.	Gypsy-Flower	Introduced	0	FACU
	<i>Hydrophyllum fendleri</i> var. <i>fendleri</i> (A. Gray) A. Heller	NA	Native	7	FAC
	<i>Lappula occidentalis</i> (S. Wats.) Greene	Flat-Spine Sheepburr	Introduced	2	NA
	<i>Lithospermum incisum</i> Lehm.	Fringed Gromwell	Native	5	UPL
	<i>Nama dichotomum</i> (Ruiz & Pav.) Choisy	Wishbone Fiddleleaf	Native	10	UPL
		Variable-Leaf			
	<i>Phacelia heterophylla</i> Pursh	Scorpion-Weed	Introduced	6	FACU
Brassicaceae	<i>Alyssum simplex</i> Rudolphi	European Madwort	Introduced	0	UPL
	<i>Barbarea vulgaris</i> W. T. Aiton	Garden Yellow-Rocket	Introduced	0	FAC
	<i>Berteroa incana</i> (L.) DC.	Hoary False Madwort	Introduced	0	NA
	<i>Camelina microcarpa</i> Andr. ex DC.	Little-Pod False Flax	Introduced	0	FACU
	<i>Capsella bursa-pastoris</i> (L.) Medik.	Shepherd's-Purse	Introduced	0	FACU
	<i>Chorisporea tenella</i> (Pall.) DC.	Crossflower	Introduced	0	NA
	<i>Hesperis matronalis</i> L.	Dame's Rocket	Introduced	0	FACU
	<i>Lepidium draba</i> L.	Heart-Pod Pepperwort	Introduced	0	NA
	<i>Rorippa palustris</i> (L.) Besser	Bog Yellowcress	Native	NA	OBL
	<i>Sisymbrium altissimum</i> L.	Tall Hedge-Mustard	Introduced	0	FACU

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	Thlaspi arvense L.	Field Pennycress	Introduced	0	UPL
	Turritis glabra L.	Tower-Mustard	Native	0	NA
Cactaceae	Opuntia fragilis (Nutt.) Haw.	Pygmy Prickly-Pear	Native	3	UPL
Campanulaceae	Campanula rotundifolia L.	Bluebell-of-Scotland	Native	5	FACU
Cannabaceae	Celtis reticulata Torr.	Net-Leaf Hackberry	Native	6	FAC
	Humulus lupulus var. neomexicanus				
	A. Nels. & Cockerell	Common Hop	Native	5	FACU
Caprifoliaceae	Symphoricarpos occidentalis Hook.	Western Snowberry	Native	3	FAC
	Pseudostellaria jamesiana (Torr.)				
Caryophyllaceae	W.A. Weber & R.L. Hartman	Sticky-Starwort	Native	6	NA
	Saponaria officinalis L.	Bouncing-Bett	Introduced	0	FACU
	Silene latifolia Poir.	Bladder-Campion	Introduced	0	NA
Cleomaceae	Cleome serrulata Pursh	Rocky Mountain Beeplant	Native	2	NA
Commelinaceae	Tradescantia occidentalis (Britt.) Smyth	Prairie Spiderwort	Native	5	FACU
Convolvulaceae	<i>Convolvulus arvensis L.</i>	Field Bindweed	Introduced	0	NA
Cornaceae	Cornus sericea subsp. sericea L.	Red Osier	Native	7	FACW
Crassulaceae	Sedum lanceolatum Torr.	Lance-Leaf Stonecrop	Native	5	UPL
Cucurbitaceae	Echinocystis lobata (Michx.) Torr. & A. Gray	Wild Cucumber	Native	3	FACU
Cupressaceae	Juniperus scopulorum Sarg.	Rocky Mountain Juniper	Native	5	UPL
Cyperaceae	Carex brevior (Dewey) Mack. ex Lunell	Short-Beak Sedge	Native	5	FAC
	Carex pellita Muhl. ex Willd.	Woolly Sedge	Native	6	OBL
Equisetaceae	Equisetum laevigatum A. Braun	Smooth Scouring-Rush	Native	4	FACW

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Euphorbiaceae	<i>Chamaesyce glyptosperma</i> (Engelm.) Small	Rib-Seed Sandmat	Native	2	UPL
	<i>Euphorbia dentata</i> Michx.	Toothed Spurge	Native	1	NA
	<i>Euphorbia esula</i> L.	Leafy Spurge	Introduced	0	NA
Fabaceae	<i>Amorpha fruticosa</i> L.	False Indigo-Bush	Native	7	FACW
	<i>Astragalus flexuosus</i> (Hook.) Dougl. ex G. Don	Pliant Milk-Vetch	Native	6	NA
	<i>Colutea arborescens</i> L.	Bladder-Senna	Cultivated	0	NA
	<i>Glycyrrhiza lepidota</i> Pursh	American Licorice	Native	3	FAC
	<i>Medicago lupulina</i> L.	Black Medick	Introduced	0	FAC
	<i>Medicago sativa</i> L.	Alfalfa	Introduced	0	UPL
	<i>Melilotus albus</i> Medik.	White Sweet-Clover	Introduced	0	NA
	<i>Melilotus officinalis</i> (L.) Lam.	Yellow Sweet-Clover	Introduced	0	UPL
	<i>Psoraleidium tenuiflorum</i> (Pursh) Rydb.	Slimflower Scurfpea	Native	5	UPL
	<i>Robinia pseudoacacia</i> L.	Black Locust	Cultivated	0	NA
	<i>Quercus gambelii</i> Nutt.	Gambel's Oak	Native	5	UPL
	<i>Quercus gambelii</i> Nutt.	Gambel's Oak	Native	5	UPL
Geraniaceae	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	Red-Stem Stork's-Bill	Introduced	0	NA
Grossulariaceae	<i>Ribes aureum</i> Pursh	Golden Currant	Native	6	FAC
	<i>Ribes cereum</i> Dougl.	White Squaw Currant	Native	6	UPL
	<i>Ribes leptanthum</i> A. Gray	Trumpet Gooseberry	Native	7	UPL
Juncaceae	<i>Juncus interior</i> Wiegand	Inland Rush	Native	5	FAC
Lamiaceae	<i>Caryopteris</i> sp.	NA	Cultivated	0	NA

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	Leonurus cardiaca L.	Motherwort	Introduced	0	NA
	Marrubium vulgare L.	White Horehound	Introduced	0	FACU
	Nepeta cataria L.	Catnip	Introduced	0	FACU
	Perovskia atriplicifolia Benth.	Russian-Sage	Cultivated	0	NA
Linaceae	Linum lewisii Pursh	Prairie Flax	Native	4	NA
Loasaceae	Mentzelia nuda (Pursh) Torr. & A. Gray	Goodmother	Native	4	NA
Malvaceae	Malva neglecta Wallr.	Dwarf Mallow	Introduced	0	NA
Montiaceae	Phemeranthus parviflorus (Nutt.) Kiger	Prairie False Fameflower	Native	6	UPL
Nyctaginaceae	Mirabilis hirsuta (Pursh) MacM.	Hairy Four O'clock	Native	6	UPL
	Mirabilis linearis (Pursh) Heimerl	Narrow-Leaf Four-O'clock	Native	5	NA
	Mirabilis nyctaginea (Michx.) MacMill.	Heart-Leaf Four-O'clock	Native	2	FACU
Onagraceae	Oenothera curtiflora W. L. Wagner & Hoch	Velvetweed	Native	1	FACU
	Oenothera sp.	NA	NA	NA	NA
	Oenothera villosa Thunb.	Hairy Evening-Primrose	Native	4	FAC
Oxalidaceae	Oxalis dillenii Jacq.	Slender Yellow Wood-Sorrel	Native	NA	FACU
	Argemone polyanthemom (Fedde)				
Papaveraceae	G. B. Ownbey	White Prickly-Poppy	Native	3	UPL
		Small-Flower Blue-Eyed			
Plantaginaceae	Collinsia parviflora Lindl.	Mary	Native	4	NA
	Linaria dalmatica (L.) P. Mill.	Dalmatian Toadflax	Introduced	0	NA
	Linaria vulgaris Mill.	Greater Butter-and-Eggs	Introduced	0	NA
	Plantago lanceolata L.	Narrowleaf Plantain	Introduced	0	FAC

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	Plantago patagonica Jacq.	Woolly Plantain	Native	2	UPL
	Veronica anagallis-aquatica L.	Blue Water Speedwell	Native	0	OBL
	Veronica biloba L.	Two-Lobe Speedwell	Introduced	0	NA
Poaceae	Aegilops cylindrica Host	Jointed Goat Grass	Introduced	0	UPL
	Agropyron cristatum (L.) Gaertn.	Crested Wheat Grass	Introduced	0	UPL
	Agrostis gigantea Roth	Black Bent	Introduced	0	FACW
	Aristida purpurea Nutt.	Purple Three-Awn	Native	3	UPL
	Bouteloua gracilis (Kunth) Lag. ex Griffiths	Blue Grama	Native	4	UPL
	Bromus inermis Leyss.	Smooth Brome	Introduced	0	FACU
	Bromus japonicus Thunb. ex Murr.	Japanese Brome	Introduced	0	UPL
	<i>Bromus tectorum</i> L.	Cheat Grass	Introduced	0	UPL
	Buchloe dactyloides (Nutt.) Engelm.	Buffalo Grass	Native	4	UPL
	Dactylis glomerata L.	Orchard Grass	Introduced	0	FACU
	Echinochloa muricata subsp. Microstachya (Wiegand) P.Jauzein	Rough Barnyard Grass	Introduced	0	FACW
	Elymus canadensis L.	Nodding Wild Rye	Native	4	FAC
	<i>Elymus repens</i> (L.) Gould	Creeping Wild Rye	Introduced	0	FAC
	Elymus trachycaulis (L.) Gould	Slender Wheatgrass	Native	4	FACU
	Eragrostis cilianensis (All.) Vignolo ex Janch.	Stink Grass	Introduced	0	FACU
	Eragrostis pectinacea (Michx.) Nees ex Steud.	Purple Love Grass	Native	1	FAC
	Festuca rubra L.	Red Fescue	Introduced	5	FAC

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Wild Canyon Zone

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	Hesperostipa comata (Trin. & Rupr.) Barkworth	Needle-and-Thread	Native	6	UPL
	Hordeum jubatum L.	Fox-Tail Barley	Native	2	FAC
	Hordeum murinum L.	Wall Barley	Introduced	0	FACU
	Koeleria macrantha (Ledeb.) Schult.	Prairie Koeler's Grass	Native	6	UPL
	Lolium perenne L.	Perennial Rye Grass	Introduced	0	FAC
	Muhlenbergia racemosa (Michx.) Britton, Sterns & Poggenb.	Green Muhly	Native	5	FACW
	Nassella viridula (Trin.) Barkworth	Green Tussock Grass	Native	4	UPL
	Panicum capillare L.	Common Panic Grass	Native	0	FACU
	Panicum virgatum L.	Wand Panic Grass	Native	5	FACW
	Phalaris arundinacea L.	Reed Canary Grass	Native	0	FACW
	<i>Poa bulbosa</i> L.	Bulbous Blue Grass	Introduced	0	FACU
	Poa compressa L.	Flat-Stem Blue Grass	Introduced	0	FACU
	Poa palustris L.	Fowl Blue Grass	Native	6	FAC
	Poa pratensis L.	Kentucky Blue Grass	Introduced	0	FAC
	Poa secunda J.Presl	Curly Blue Grass	Native	6	FACU
	Schedonorus arundinaceus (Schreb.) Dumort.	Tall Fescue	Introduced	0	FACU
	Setaria viridis (L.) P. Beauv.	Green Bristle Grass	Introduced	0	NA
	Sorghastrum nutans (L.) Nash	Yellow Indian Grass	Native	10	FACU
	Sporobolus cryptandrus (Torr.) A. Gray	Sand Dropseed	Native	2	FACU

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	Thinopyrum intermedium (Host)				
	Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
		Eight-Flower Six-Weeks			
	Vulpia octoflora (Walter) Rydb.	Grass	Native	3	UPL
Polemoniaceae	Phlox sp. L.	Phlox	NA	NA	NA
Polygonaceae	Eriogonum effusum Nutt.	Spreading Wild Buckwheat	Native	4	UPL
	Persicaria lapathifolia (L.) Delarbre	Dock-Leaf Smartweed	Introduced	0	FACW
	Persicaria maculosa S. F. Gray	Spotted Lady's-Thumb	Introduced	0	FACW
	Polygonum aviculare L.	Yard Knotweed	Introduced	0	FAC
	Rumex crispus L.	Curly Dock	Introduced	0	FAC
Portulacaceae	Portulaca oleracea L.	Little-Hogweed	Introduced	0	FAC
Ranunculaceae	Clematis ligusticifolia Nutt.	Deciduous Traveler's-Joy	Native	4	FAC
		Alder-Leaf			
Rosaceae	Cercocarpus montanus Raf.	Mountain-Mahogany	Native	6	UPL
	Prunus americana Marshall	American Plum	Native	6	FACU
	Prunus cerasifera Ehrh.	Cherry Plum	Cultivated	0	NA
	Prunus virginiana L.	Choke Cherry	Native	4	FAC
	Rosa blanda Aiton	Smooth Rose	Native	5	NA
	Rubus deliciosus Torr.	Delicious Raspberry	Native	6	NA
Rubiaceae	Galium aparine L.	Sticky-Willy	Introduced	0	FACU
Salicaceae	Populus acuminata Rydb.	Lanceleaf Cottonwood	Native	5	FAC
	Populus angustifolia James	Narrow-Leaf Cottonwood	Native	5	FACW

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	<i>Salix amygdaloides</i> Andersson	Peach-Leaf Willow	Native	5	FACW
	<i>Salix exigua</i> subsp. <i>exigua</i> Nutt.	Coyote Willow	Native	3	FACW
Sapindaceae	<i>Acer glabrum</i> Torr.	Rocky Mountain Maple	Native	7	FACW
	<i>Acer negundo</i> L.	Ash-Leaf Maple	Introduced	0	FACW
Scrophulariaceae	<i>Verbascum thapsus</i> L.	Great Mullein	Introduced	0	FACU
Smilacaceae	<i>Smilax lasioneura</i> Hook.	Blue Ridge Carrion-Flower	Native	7	NA
Solanaceae	<i>Physalis longifolia</i> Nutt.	Long-Leaf Ground-Cherry	Native	NA	NA
Typhaceae	<i>Typha angustifolia</i> L.	Narrow-Leaf Cat-Tail	Native	0	OBL
Ulmaceae	<i>Ulmus pumila</i> L.	Siberian Elm	Introduced	0	UPL
Verbenaceae	<i>Verbena bracteata</i> Cav. ex Lag. & Rodr.	Carpet Vervain	Introduced	0	FAC
Vitaceae	<i>Parthenocissus vitacea</i> (Knerr) A.S. Hitchc.	Thicket-Creeper	Native	NA	NA
	<i>Vitis acerifolia</i> Raf.	Maple-Leaf Grape	Native	6	NA
	<i>Vitis riparia</i> Michx.	River-Bank Grape	Native	5	FAC
Zygophyllaceae	<i>Tribulus terrestris</i> L.	Puncturevine	Introduced	0	NA

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Adoxaceae	Viburnum edule (Michx.) Raf.	Squashberry	Native	6	FACW
	Viburnum lantana L.	Wayfaring-Tree	Cultivated	0	NA
Amaranthaceae	Amaranthus powellii S. Watson	Green Amaranth	Native	5	NA
	Atriplex canescens (Pursh) Nutt.	Four-Wing Saltbush	Native	7	UPL
	Atriplex subspicata (Nutt.) Rydb.	Saline Saltbush	Native	NA	NA
	Chenopodium berlandieri subsp. Zschackii (J. Murr) Zobel	Zschack's Goosefoot	Native	2	NA
	Chenopodium hians Standl.	Hians Goosefoot	Native	NA	UPL
	Chenopodium pratericola Rydb.	Desert Goosefoot	Native	4	UPL
	Chenopodium sp. L.	Goosefoot	NA	NA	NA
	Dysphania botrys (L.) Mosyakin & Clemants	Jerusalem-Oak	Introduced	0	FACU
	Froelichia gracilis (Hook.) Moq.	Slender Snake-Cotton	Native	4	UPL
	Kochia scoparia (L.) Schrad.	Mexican-Fireweed	Introduced	0	NA
	Krascheninnikovia lanata (Pursh) A.D.J. Meeuse & Smit	Winterfat	Native	8	UPL
	Salsola tragus L.	Prickly Russian-Thistle	Introduced	0	FACU
Anacardiaceae	Cotinus coggygria Scop.	European Smoketree	Cultivated	0	NA
	Rhus trilobata Nutt.	Skunkbush Sumac	Native	5	UPL
	Toxicodendron rydbergii (Small ex Rydb.) Greene	Western Poison Ivy	Native	3	FACU
Apiaceae	<i>Conium maculatum</i> L.	Poison-Hemlock	Introduced	0	FACW

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Apocynaceae	<i>Asclepias speciosa</i> Torr.	Showy Milkweed	Native	3	FAC
Araceae	<i>Lemna minuta</i> Kunth	Least Duckweed	Native	NA	OBL
Asparagaceae	<i>Maianthemum stellatum</i> (L.) Link	Starry False Solomon's-Seal	Native	7	FACU
	<i>Yucca glauca</i> Nutt.	Soapweed Yucca	Native	4	UPL
Asteraceae	<i>Achillea millefolium</i> L.	Woolly Yarrow	Native	4	FACU
	<i>Ambrosia psilostachya</i> DC.	Perennial Ragweed	Native	3	FACU
	<i>Ambrosia trifida</i> L.	Great Ragweed	Native	0	FAC
	<i>Arctium minus</i> (Hill) Bernh.	Lesser Burdock	Introduced	0	FACU
	<i>Artemisia biennis</i> Willd.	Biennial Wormwood	Introduced	0	FACW
	<i>Artemisia campestris</i> L.	Pacific Wormwood	Native	5	UPL
	<i>Artemisia dracunculus</i> L.	Dragon Wormwood	Native	3	NA
	<i>Artemisia frigida</i> Willd.	Prairie Sagebrush	Native	4	UPL
	<i>Artemisia ludoviciana</i> Nutt.	White Sagebrush	Native	4	FACU
	<i>Bidens vulgata</i> Greene	Tall Beggarticks	Native	NA	FACW
	<i>Carduus nutans</i> L.	Nodding Plumeless-Thistle	Introduced	0	FACU
	<i>Centaurea diffusa</i> Lam.	White Knapweed	Introduced	0	NA
	<i>Centaurea psammogena</i> NA	NA	Introduced	0	NA
	<i>Cichorium intybus</i> L.	Chicory	Introduced	0	FACU
	<i>Cirsium arvense</i> (L.) Scop.	Canadian Thistle	Introduced	0	FACU
	<i>Conyza canadensis</i> (L.) Cronquist	Canadian Horseweed	Introduced	0	NA

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	Dieteria bigelovii var. bigelovii (A. Gray) D.R. Morgan & R.L. Hartm.	Bigelow's Tansy-Aster	Native	3	FACW
	Dyssodia papposa (Vent.) Hitchc.	Fetid-Marigold	Native	2	NA
	Echinacea purpurea (L.) Moench	Eastern Purple-Coneflower	Cultivated	0	NA
	Echinops ritro L.	Southern Globe-Thistle	Cultivated	0	NA
	Ericameria nauseosa (Pallas ex Pursh) G.L. Nesom & Baird	Rubber-Rabbitbrush	Native	3	UPL
	Erigeron divergens Torr. & A. Gray	Rough Fleabane	Native	4	NA
	Gaillardia pulchella Foug.	Firewheel	Native	5	FACU
	Gaillardia sp. Foug.	Blanketflower	Native	NA	FACU
	Grindelia squarrosa (Pursh) Dunal	Curly-Cup Gumweed	Native	1	FACU
	Gutierrezia sarothrae (Pursh) Britt. & Rusby	Kindlingweed	Native	3	UPL
	Helianthus annuus L.	Common Sunflower	Native	1	FACU
	Helianthus petiolaris Nutt.	Prairie Sunflower	Native	2	UPL
	Heterotheca villosa (Pursh) Shinnery	Hairy False Golden-Aster	Native	3	UPL
	Lactuca serriola L.	Prickly Lettuce	Introduced	0	FACU
	Liatris punctata Hook.	Dotted Gayfeather	Native	6	UPL
	Lygodesmia juncea (Pursh) D. Don ex Hook.	Rush Skeleton-Plant	Native	4	UPL
	Machaeranthera tanacetifolia (Kunth) Nees	Takhoka Daisy	Native	2	UPL
	Onopordum acanthium L.	Scotch-Thistle	Introduced	0	NA

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	Picradeniopsis oppositifolia (Nutt.) Rydb. ex Britt.	Opposite-Leaf False Bahia	Native	2	UPL
	Ratibida columnifera (Nutt.) Wooton & Standl.	Red-Spike Mexican-Hat	Native	4	UPL
	Scorzonera laciniata L.	Cut-Leaf Viper-Grass	Introduced	0	NA
	Solidago gigantea Aiton	Late Goldenrod	Native	6	FACW
	Solidago missouriensis Nutt.	Missouri Goldenrod	Native	5	UPL
	Sonchus asper (L.) Hill	Spiny-Leaf Sow-Thistle	Introduced	0	FAC
		White Heath			
	Symphyotrichum ericoides (L.) G. L. Nesom	American-Aster	Native	4	FAC
	Symphyotrichum falcatum (Lindl.) G.L. Nesom	Rough White Prairie			
		American-Aster	Native	4	FACU
	Symphyotrichum porteri (A. Gray) G. L. Nesom	Smooth White			
		American-Aster	Native	6	FACU
	Taraxacum officinale F. H. Wigg.	Common Dandelion	Introduced	0	FACU
	Thelesperma megapotamicum (Spreng.) Kuntze	Hopi-Tea	Native	5	UPL
	Tragopogon dubius Scop.	Meadow Goat's-Beard	Introduced	0	NA
	Verbesina encelioides subsp. Exauriculata A. Gray	Golden Crownbeard	Introduced	0	FACU
	Xanthium strumarium L.	Rough Cocklebur	Introduced	0	FAC

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Berberidaceae	Berberis aquifolium Pursh	Holly-Leaf Oregon-Grape	NA	NA	NA
	Berberis repens Lindl.	Creeping Oregon-Grape	Native	NA	UPL
Boraginaceae	Cynoglossum officinale L.	Gypsy-Flower	Introduced	0	FACU
	Lithospermum incisum Lehm.	Fringed Gromwell	Native	5	UPL
Brassicaceae	Alyssum simplex Rudolphi	European Madwort	Introduced	0	UPL
	Barbarea vulgaris W. T. Aiton	Garden Yellow-Rocket	Introduced	0	FAC
	Berteroa incana (L.) DC.	Hoary False Madwort	Introduced	0	NA
	Camelina microcarpa Andr. ex DC.	Little-Pod False Flax	Introduced	0	FACU
	Capsella bursa-pastoris (L.) Medik.	Shepherd's-Purse	Introduced	0	FACU
	Chorispura tenella (Pall.) DC.	Crossflower	Introduced	0	NA
	Descurainia sophia (L.) Webb ex Prantl	Herb-Sophia	Introduced	0	NA
	Rorippa palustris (L.) Besser	Bog Yellowcress	Native	NA	OBL
	Rorippa sp. Scop.	Yellowcress	NA	NA	NA
	Sisymbrium altissimum L.	Tall Hedge-Mustard	Introduced	0	FACU
	Thlaspi arvense L.	Field Pennycress	Introduced	0	UPL
Campanulaceae	Campanula rapunculoides L.	Creeping Bellflower	Cultivated	0	NA
Cannabaceae	Celtis occidentalis L.	Common Hackberry	Cultivated	0	FAC
	Humulus lupulus var. neomexicanus				
	A. Nels. & Cockerell	Common Hop	Native	5	FACU
Caprifoliaceae	Lonicera tatarica L.	Twinsisters	Cultivated	0	UPL
	Symphoricarpos occidentalis Hook.	Western Snowberry	Native	3	FAC

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Caryophyllaceae	Saponaria officinalis L.	Bouncing-Bett	Introduced	0	FACU
Celastraceae	Euonymus europaeus L.	European Spindletree	Cultivated	0	NA
Commelinaceae	Tradescantia occidentalis (Britt.) Smyth	Prairie Spiderwort	Native	5	FACU
Convolvulaceae	Calystegia sepium (L.) R. Br.	Hedge False Bindweed	Native	2	FAC
	<i>Convolvulus arvensis</i> L.	Field Bindweed	Introduced	0	NA
	Evolvulus nuttallianus Roem. & Schult.	Shaggy Dwarf-Morning-Glory	Native	6	UPL
	Ipomoea leptophylla Torr.	Bush Morning-Glory	Native	6	UPL
Cucurbitaceae	Cucurbita foetidissima Kunth	Missouri Gourd	Native	2	UPL
	Echinocystis lobata (Michx.) Torr. & A. Gray	Wild Cucumber	Native	3	FACU
Cupressaceae	Juniperus scopulorum Sarg.	Rocky Mountain Juniper	Native	5	UPL
Cyperaceae	Cyperus schweinitzii Torr.	Sand Flat Sedge	Native	6	NA
	Eleocharis palustris (L.) Roem. & Schult.	Soft-Stem Spike-Rush	Native	3	OBL
	Schoenoplectus tabernaemontani (C. C. Gmel.) Palla	Soft-Stem Wood Club-Rush	Native	3	OBL
	Scirpus pallidus (Britton) Fernald	Pale Bulrush	Native	5	OBL
Elaeagnaceae	Elaeagnus angustifolia L.	Russian-Olive	Introduced	0	FAC
Equisetaceae	Equisetum laevigatum A. Braun	Smooth Scouring-Rush	Native	4	FACW
Euphorbiaceae	Chamaesyce geyeri (Engelm. & Gray) Small	Geyer's Sandmat	Native	5	UPL
	Chamaesyce glyptosperma (Engelm.) Small	Rib-Seed Sandmat	Native	2	UPL
	Chamaesyce serpyllifolia (Pers.) Small	Thyme-Leaf Sandmat	Native	0	UPL
	Chamaesyce sp. A. Gray	NA	NA	NA	NA

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Fabaceae	<i>Euphorbia dentata</i> Michx.	Toothed Spurge	Native	1	NA
	<i>Euphorbia esula</i> L.	Leafy Spurge	Introduced	0	NA
	<i>Amorpha fruticosa</i> L.	False Indigo-Bush	Native	7	FACW
	<i>Gleditsia triacanthos</i> L.	Honey-Locust	Cultivated	1	FAC
	<i>Glycyrrhiza lepidota</i> Pursh	American Licorice	Native	3	FAC
	<i>Lathyrus sylvestris</i> L.	Narrow-Leaf Vetchling	Introduced	0	NA
	<i>Lupinus caudatus</i> Kellogg	Kellogg's Spurred Lupine	Native	5	NA
	<i>Medicago lupulina</i> L.	Black Medick	Introduced	0	FAC
	<i>Medicago sativa</i> L.	Alfalfa	Introduced	0	UPL
	<i>Melilotus albus</i> Medik.	White Sweet-Clover	Introduced	0	NA
	<i>Melilotus officinalis</i> (L.) Lam.	Yellow Sweet-Clover	Introduced	0	UPL
	<i>Psoraleidum lanceolatum</i> (Pursh) Rydb.	Lemon Scurfpea	Native	5	UPL
	<i>Psoraleidum tenuiflorum</i> (Pursh) Rydb.	Slimflower Scurfpea	Native	5	UPL
	<i>Robinia neomexicana</i> A. Gray	New Mexico Locust	Cultivated	4	NA
	<i>Securigera varia</i> (L.) Lassen	Purple Crown-Vetch	Introduced	0	NA
	<i>Vicia americana</i> var. <i>minor</i> Hook.	Mat Vetch	Native	6	FAC
Fagaceae	<i>Quercus gambelii</i> Nutt.	Gambel's Oak	Native	5	UPL
Geraniaceae	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	Red-Stem Stork's-Bill	Introduced	0	NA
Grossulariaceae	<i>Ribes aureum</i> Pursh	Golden Currant	Native	6	FAC
Juncaceae	<i>Juncus articulatus</i> L.	Joint-Leaf Rush	Native	0	OBL
	<i>Juncus compressus</i> Jacq.	Roundfruit Rush	Introduced	0	OBL

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	Juncus interior Wiegand	Inland Rush	Native	5	FAC
	Lamiastrum galeobdolon (L.)				
Lamiaceae	Ehrend. & Polatschek	NA	Cultivated	0	NA
	Nepeta cataria L.	Catnip	Introduced	0	FACU
Linaceae	Linum lewisii Pursh	Prairie Flax	Native	4	NA
Loasaceae	Mentzelia nuda (Pursh) Torr. & A. Gray	Goodmother	Native	4	NA
Malvaceae	Malva neglecta Wallr.	Dwarf Mallow	Introduced	0	NA
	Sphaeralcea coccinea (Nutt.) Rydb.	Cowboy's Delights	Native	4	UPL
	Tilia americana L.	American Basswood	Cultivated	0	FACU
Montiaceae	Phemeranthus parviflorus (Nutt.) Kiger	Prairie False Fameflower	Native	6	UPL
Nyctaginaceae	Abronia fragrans Nutt. ex Hook.	Heart's-Delight	Native	6	UPL
	Mirabilis hirsuta (Pursh) MacM.	Hairy Four O'clock	Native	6	UPL
	Mirabilis lanceolata (Rydb.) Standl.	Narrow-Leaf Four-O'clock	Native	NA	NA
	Mirabilis linearis (Pursh) Heimerl	Narrow-Leaf Four-O'clock	Native	5	NA
	Mirabilis nyctaginea (Michx.) MacMill.	Heart-Leaf Four-O'clock	Native	2	FACU
Oleaceae	Fraxinus pennsylvanica Marsh.	Green Ash	Native	0	FACW
	Ligustrum vulgare L.	European Privet	Cultivated	0	NA
	Syringa vulgaris L.	Common Lilac	Cultivated	0	NA
		White-Stem			
Onagraceae	Oenothera albicaulis Pursh	Evening-Primrose	Native	6	UPL
	Oenothera curtiflora W. L. Wagner & Hoch	Velvetweed	Native	1	FACU

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	Oenothera nuttallii Sweet	Nuttall's Evening-Primrose	Native	4	UPL
	Oenothera suffrutescens (Ser.) W. L. Wagner & Hoch	Scarlet Beeblossom	Native	5	UPL
	Oenothera villosa Thunb.	Hairy Evening-Primrose	Native	4	FAC
Papaveraceae	Argemone polyanthemus (Fedde) G. B. Ownbey	White Prickly-Poppy	Native	3	UPL
Pinaceae	Pinus edulis Engelm.	Two-Needle Pinyon	Native	6	UPL
	Pinus ponderosa P.& C. Lawson	Ponderosa Pine	Native	5	FACU
	Pinus sylvestris L.	Scotch Pine	Cultivated	0	NA
	Pseudotsuga menziesii (Mirbel) Franco	Douglas-Fir	Native	5	NA
Plantaginaceae	Linaria dalmatica (L.) P. Mill.	Dalmatian Toadflax	Introduced	0	NA
	Plantago lanceolata L.	Narrowleaf Plantain	Introduced	0	FAC
	Plantago major L.	Great Plantain	Introduced	0	FAC
	Plantago patagonica Jacq.	Woolly Plantain	Native	2	UPL
	Veronica americana Schwein. ex Benth.	American-Brooklime	Native	6	OBL
	Veronica anagallis-aquatica L.	Blue Water Speedwell	Native	0	OBL
Poaceae	Aegilops cylindrica Host	Jointed Goat Grass	Introduced	0	UPL
	Agropyron cristatum (L.) Gaertn.	Crested Wheat Grass	Introduced	0	UPL
	Agrostis stolonifera L.	Spreading Bent	Introduced	0	FACW
	Alopecurus aequalis Sobol.	Short-Awn Meadow-Foxtail	Native	4	OBL
	Alopecurus arundinaceus Poir.	Creeping Meadow-Foxtail	Introduced	0	FAC
	Alopecurus geniculatus L.	Marsh Meadow-Foxtail	Introduced	0	OBL

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	Andropogon gerardii Vitman	Big Bluestem	Native	9	FACU
	Aristida purpurea Nutt.	Purple Three-Awn	Native	3	UPL
	Bothriochloa ischaemum (L.) Keng	Turkestan Beard Grass	Introduced	0	NA
	Bouteloua curtipendula (Michx.) Torr.	Side-Oats Grama	Native	6	UPL
	Bouteloua gracilis (Kunth) Lag. ex Griffiths	Blue Grama	Native	4	UPL
	Bromus inermis Leyss.	Smooth Brome	Introduced	0	FACU
	Bromus sp. L.	Brome	NA	NA	NA
	<i>Bromus tectorum</i> L.	Cheat Grass	Introduced	0	UPL
	Buchloe dactyloides (Nutt.) Engelm.	Buffalo Grass	Native	4	UPL
	Calamovilfa longifolia (Hook.) Scribn.	Prairie Sandreed	Native	7	UPL
	Cenchrus longispinus (Hack.) Fernald	Innocent-Weed	Native	1	UPL
	Chloris verticillata Nutt.	Tumble Windmill Grass	Native	1	UPL
	Dactylis glomerata L.	Orchard Grass	Introduced	0	FACU
	Digitaria sanguinalis (L.) Scop.	Hairy Crab Grass	Native	0	FACU
	Diplachne fusca subsp. Fascicularis				
	(Lam.) P. M. Peterson & N. Snow	Bearded Sprangletop	Introduced	4	FACW
	Echinochloa crus-galli (L.) P. Beauv.	Large Barnyard Grass	Introduced	0	FACW
	Echinochloa muricata subsp. Microstachya				
	(Wiegand) P. Jauzein	Rough Barnyard Grass	Introduced	0	FACW
	Elymus trachycaulis (Link) Gould	Slender Wild Rye	Native	4	FACU
	Elymus virginicus L.	Virginia Wild Rye	Native	5	FACW

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	<i>Elymus virginicus</i> var. <i>intermedius</i> (Vasey ex A. Gray) Bush	Virginia Wild Rye	Native	5	FACW
	<i>Eragrostis cilianensis</i> (All.) Vignolo ex Janch.	Stink Grass	Introduced	0	FACU
	<i>Festuca rubra</i> L.	Red Fescue	Introduced	5	FAC
	<i>Festuca</i> sp. L.	Fescue	NA	NA	NA
	<i>Hesperostipa comata</i> (Trin. & Rupr.) Barkworth	Needle-and-Thread	Native	6	UPL
	<i>Hordeum jubatum</i> L.	Fox-Tail Barley	Native	2	FAC
	<i>Hordeum murinum</i> L.	Wall Barley	Introduced	0	FACU
	<i>Lolium perenne</i> L.	Perennial Rye Grass	Introduced	0	FAC
	<i>Muhlenbergia racemosa</i> (Michx.) Britton, Sterns & Poggenb.	Green Muhly	Native	5	FACW
	<i>Nassella viridula</i> (Trin.) Barkworth	Green Tussock Grass	Native	4	UPL
	<i>Panicum capillare</i> L.	Common Panic Grass	Native	0	FACU
	<i>Panicum virgatum</i> L.	Wand Panic Grass	Native	5	FACW
	<i>Pascopyrum smithii</i> (Rydb.) Barkworth & D. R. Dewey	Western-Wheat Grass	Native	5	FAC
	<i>Phalaris arundinacea</i> L.	Reed Canary Grass	Native	0	FACW
	<i>Poa bulbosa</i> L.	Bulbous Blue Grass	Introduced	0	FACU
	<i>Poa compressa</i> L.	Flat-Stem Blue Grass	Introduced	0	FACU
	<i>Poa palustris</i> L.	Fowl Blue Grass	Native	6	FAC

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	Poa pratensis L.	Kentucky Blue Grass	Introduced	0	FAC
	Psathyrostachys juncea (Fisch.) Nevski	Russian-Wild Rye	Introduced	0	UPL
	Schedonorus arundinaceus (Schreb.) Dumort.	Tall Fescue	Introduced	0	FACU
	Schizachyrium scoparium (Michx.) Nash	Little False Bluestem	Native	5	FACU
	Secale cereale L.	Cultivated Rye	Introduced	0	NA
	Setaria viridis (L.) P. Beauv.	Green Bristle Grass	Introduced	0	NA
	Sporobolus cryptandrus (Torr.) A. Gray	Sand Dropseed	Native	2	FACU
	Thinopyrum intermedium (Host) Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
	Thinopyrum intermedium (Host) Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
	Vulpia octoflora (Walter) Rydb.	Eight-Flower Six-Weeks Grass	Native	3	UPL
	Aliciella pinnatifida (Nutt. Ex A. Gray)				
Polemoniaceae	J.M. Porter	Sticky Gilia	Native	NA	FACU
Polygonaceae	Eriogonum annuum Nutt.	Annual Wild Buckwheat	Native	4	UPL
	Eriogonum effusum Nutt.	Spreading Wild Buckwheat	Native	4	UPL
	Fallopia convolvulus (L.) ÁŁLöve	Black-Bindweed	Native	0	FACU
	Persicaria hydropiper (L.) Spach	Mild Water-Pepper	Introduced	0	OBL
	Persicaria lapathifolia (L.) Delarbre	Dock-Leaf Smartweed	Introduced	0	FACW
	Persicaria maculosa S. F. Gray	Spotted Lady's-Thumb	Introduced	0	FACW

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	Persicaria pensylvanica (L.) M. Gómez	Pinkweed	Native	4	FACW
	Polygonum aviculare L.	Yard Knotweed	Introduced	0	FAC
	Rumex crispus L.	Curly Dock	Introduced	0	FAC
	Rumex stenophyllus Ledeb.	Narrow-Leaf Dock	Introduced	0	FACW
	Rumex triangulivalvis (Danser) Rech. f.	Triangular-Valved Dock	Native	4	FACW
Ranunculaceae	Clematis ligusticifolia Nutt.	Deciduous Traveler's-Joy	Native	4	FAC
	Ranunculus sceleratus var. multifidus Nutt.	Blister buttercup	Native	1	OBL
Rhamnaceae	Rhamnus cathartica L.	European Buckthorn	Cultivated	0	FAC
Rosaceae	Cotoneaster lucidus Schldl.	Hairy-Stem Cotoneaster	Cultivated	0	NA
	Crataegus monogyna Jacq.	English Hawthorn	Introduced	0	FAC
	Crataegus sp. L.	Hawthorn	NA	NA	NA
	Crataegus sp. L.	Hawthorn	NA	NA	NA
	Crataegus succulenta Schrad. ex Link	Bicknell's Hawthorn	Native	5	FAC
	Malus sp. P. Mill.	Apple	Cultivated	0	NA
	Prunus americana Marshall	American Plum	Native	6	FACU
	Prunus cerasifera Ehrh.	Cherry Plum	Cultivated	0	NA
	Prunus cerasus L.	Sour Cherry	Cultivated	0	NA
	Prunus sp. L.	Plum	NA	NA	NA
	Prunus virginiana L.	Choke Cherry	Native	4	FAC
	Prunus virginiana L.	Choke Cherry	Native	4	FAC
	Rosa blanda Aiton	Smooth Rose	Native	5	NA

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Rubiaceae	Galium aparine L.	Sticky-Willy	Introduced	0	FACU
Salicaceae	Populus acuminata Rydb.	Lanceleaf Cottonwood	Native	5	FAC
	Populus angustifolia James	Narrow-Leaf Cottonwood	Native	5	FACW
	Populus deltoides W. Bartram ex Marshall	Eastern Cottonwood	Native	4	FAC
	Salix amygdaloides Andersson	Peach-Leaf Willow	Native	5	FACW
	Salix eriocephala Michx.	Missouri Willow	Native	6	NA
	Salix exigua subsp. exigua Nutt.	Coyote Willow	Native	3	FACW
	Salix fragilis L.	Crack Willow	Cultivated	0	FAC
Santalaceae	Comandra umbellata (L.) Nutt.	Bastard-Toadflax	Native	5	UPL
Sapindaceae	Acer ginnala Maxim.	Amur Maple	Cultivated	0	NA
	Acer negundo L.	Ash-Leaf Maple	Introduced	0	FACW
	Acer platanoides L.	Norway Maple	Cultivated	0	UPL
	Koeleria paniculata Laxm.	Golden Rain-Tree	Cultivated	0	NA
Scrophulariaceae	Verbascum thapsus L.	Great Mullein	Introduced	0	FACU
	Physalis hederifolia var. comata (Rydb.)				
Solanaceae	Waterf.	Ivy-Leaf Ground Cherry	Native	5	NA
	Physalis heterophylla Nees	Clammy Ground-Cherry	Native	5	NA
	Physalis hispida (Waterfall) Cronq.	Prairie Groundcherry	Native	5	NA
	Physalis longifolia Nutt.	Long-Leaf Ground-Cherry	Native	NA	NA
	Solanum nigrum L.	European Black Nightshade	Native	2	FACU
	Solanum triflorum Nutt.	Cut-Leaf Nightshade	Native	2	NA

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Typhaceae	<i>Typha angustifolia</i> L.	Narrow-Leaf Cat-Tail	Native	0	OBL
	<i>Typha latifolia</i> L.	Broad-Leaf Cat-Tail	Native	2	OBL
Ulmaceae	<i>Ulmus americana</i> L.	American Elm	Native	NA	FAC
Verbenaceae	<i>Verbena bracteata</i> Cav. ex Lag. & Rodr.	Carpet Vervain	Introduced	0	FAC
Vitaceae	<i>Parthenocissus vitacea</i> (Knerr) A.S. Hitchc.	Thicket-Creeper	Native	NA	NA
	<i>Vitis acerifolia</i> Raf.	Maple-Leaf Grape	Native	6	NA
Zygophyllaceae	<i>Tribulus terrestris</i> L.	Puncturevine	Introduced	0	NA

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Adoxaceae	Viburnum lantana L.	Wayfaring-Tree	Cultivated	0	NA
	Viburnum opulus L.	Highbush-Cranberry	Cultivated	0	FACW
	Viburnum trilobum Marshall	American Cranberrybush	Cultivated	0	NA
Amaranthaceae	Amaranthus palmeri S. Watson	Careless Weed	Native	0	FACU
	Amaranthus powellii S. Watson	Green Amaranth	Native	5	NA
	Amaranthus retroflexus L.	Red-Root	Introduced	0	FACU
	Atriplex heterosperma Bunge	Two-Scale Saltbush	Introduced	0	NA
	Chenopodium berlandieri subsp. Zschackii (J. Murr) Zobel	Zschack's Goosefoot	Native	2	NA
	Chenopodium fremontii S. Watson	Fremont's Goosefoot	Native	6	FACU
	Chenopodium hians Standl.	Hians Goosefoot	Native	NA	UPL
	Chenopodium leptophyllum (Moq.) Nutt. ex S. Wats.	Narrow-Leaf Goosefoot	Native	5	FACU
	Kochia scoparia (L.) Schrad.	Mexican-Fireweed	Introduced	0	NA
	Salsola tragus L.	Prickly Russian-Thistle	Introduced	0	FACU
	Allium aflatunense B. Fedtsch.	NA	Cultivated	0	NA
Anacardiaceae	Rhus glabra L.	Smooth Sumac	Native	6	UPL
	Rhus trilobata Nutt.	Skunkbush Sumac	Native	5	UPL
	Rhus typhina L.	Stag-Horn Sumac	Introduced	0	NA
Apiaceae	Conium maculatum L.	Poison-Hemlock	Introduced	0	FACW
Apocynaceae	Apocynum cannabinum L.	Indian-Hemp	Native	2	FAC
	Asclepias pumila (Gray) Vail	Low Milkweed	Native	4	UPL

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	Asclepias sp. L.	Milkweed	NA	NA	NA
	Asclepias speciosa Torr.	Showy Milkweed	Native	3	FAC
	Vinca minor L.	Lesser Periwinkle	Cultivated	0	NA
Asparagaceae	Asparagus officinalis L.	Asparagus	Native	0	FACU
	Muscari botryoides (L.) Mill.	Common Grape-Hyacinth	Cultivated	0	NA
Asteraceae	Ambrosia psilostachya DC.	Perennial Ragweed	Native	3	FACU
	Ambrosia trifida L.	Great Ragweed	Native	0	FAC
	<i>Arctium minus</i> (Hill) Bernh.	Lesser Burrdock	Introduced	0	FACU
	Artemisia campestris L.	Pacific Wormwood	Native	5	UPL
	Bidens frondosa L.	Devil's-Pitchfork	Introduced	0	FACW
	Brickellia eupatorioides (L.) Shinn.	False Boneset	Native	6	NA
	Carduus nutans L.	Nodding Plumeless-Thistle	Introduced	0	FACU
	Centaurea montana L.	Mountain Cornflower	Cultivated	0	NA
	Cirsium arvense (L.) Scop.	Canadian Thistle	Introduced	0	FACU
	Conyza canadensis (L.) Cronquist	Canadian Horseweed	Introduced	0	NA
	Coreopsis tinctoria Nutt.	Golden Tickseed	Introduced	3	FACU
	Dieteria bigelovii var. bigelovii (A. Gray) D.R. Morgan & R.L. Hartm.	Bigelow's Tansy-Aster	Native	3	FACW
	Ericameria nauseosa (Pallas ex Pursh) G.L. Nesom & Baird	Rubber-Rabbitbrush	Native	3	UPL
	Erigeron divergens Torr. & A. Gray	Rough Fleabane	Native	4	NA
	Helianthus annuus L.	Common Sunflower	Native	1	FACU

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	Heterotheca villosa (Pursh) Shinnars	Hairy False Golden-Aster	Native	3	UPL
	Lactuca serriola L.	Prickly Lettuce	Introduced	0	FACU
	Lapsana communis L.	Common Nipplewort	Introduced	0	FAC
	Lygodesmia juncea (Pursh) D. Don ex Hook.	Rush Skeleton-Plant	Native	4	UPL
	Onopordum acanthium L.	Scotch-Thistle	Introduced	0	NA
	Picradeniopsis oppositifolia (Nutt.) Rydb. ex Britt.	Opposite-Leaf False Bahia	Native	2	UPL
	Scorzonera laciniata L.	Cut-Leaf Viper-Grass	Introduced	0	NA
	Solidago gigantea Aiton	Late Goldenrod	Native	6	FACW
	Solidago missouriensis Nutt.	Missouri Goldenrod	Native	5	UPL
	Sonchus asper (L.) Hill	Spiny-Leaf Sow-Thistle	Introduced	0	FAC
	Symphyotrichum ericoides (L.) G. L. Nesom	White Heath American-Aster	Native	4	FAC
	Symphyotrichum falcatum (Lindl.) G.L. Nesom	Rough White Prairie American-Aster	Native	4	FACU
	Symphyotrichum porteri (A. Gray) G. L. Nesom	Smooth White American-Aster	Native	6	FACU
	Symphyotrichum sp.	NA	Native	NA	NA
	Taraxacum officinale F. H. Wigg.	Common Dandelion	Introduced	0	FACU
	Tragopogon dubius Scop.	Meadow Goat's-Beard	Introduced	0	NA
	Xanthium strumarium L.	Rough Cocklebur	Introduced	0	FAC
Berberidaceae	Berberis aquifolium Pursh	Holly-Leaf Oregon-Grape	NA	NA	NA
Bignoniaceae	Catalpa speciosa (Warder) Warder ex Engelm.	Northern Catalpa	Cultivated	0	FAC

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Wooded Village Zone

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Brassicaceae	Alyssum simplex Rudolphi	European Madwort	Introduced	0	UPL
	Barbarea orthoceras Ledeb.	American Yellow-Rocket	Introduced	5	FACW
	Capsella bursa-pastoris (L.) Medik.	Shepherd's-Purse	Introduced	0	FACU
	Chorispura tenella (Pall.) DC.	Crossflower	Introduced	0	NA
	Descurainia sophia (L.) Webb ex Prantl	Herb-Sophia	Introduced	0	NA
	Hesperis matronalis L.	Dame's Rocket	Introduced	0	FACU
	Lepidium chalepensis L.	NA	Introduced	0	NA
	Thlaspi arvense L.	Field Pennycress	Introduced	0	UPL
Campanulaceae	Campanula rapunculoides L.	Creeping Bellflower	Cultivated	0	NA
Cannabaceae	Celtis reticulata Torr.	Net-Leaf Hackberry	Native	6	FAC
	Humulus lupulus var. neomexicanus				
Caprifoliaceae	A. Nels. & Cockerell	Common Hop	Native	5	FACU
	Dipsacus laciniatus L.	Cut-Leaf Teasel	Introduced	0	FACU
	Lonicera tatarica L.	Twinsisters	Cultivated	0	UPL
	Symphoricarpos occidentalis Hook.	Western Snowberry	Native	3	FAC
Caryophyllaceae	Stellaria media (L.) Vill.	Common Chickweed	Introduced	0	FACU
Celastraceae	Euonymus europaeus L.	European Spindletree	Cultivated	0	NA
Convolvulaceae	<i>Convolvulus arvensis</i> L.	Field Bindweed	Introduced	0	NA
Crassulaceae	Sempervivum sp. L.	NA	Cultivated	0	NA
Cucurbitaceae	Echinocystis lobata (Michx.) Torr. & A. Gray	Wild Cucumber	Native	3	FACU
Cupressaceae	Juniperus scopulorum Sarg.	Rocky Mountain Juniper	Native	5	UPL
Cyperaceae	Carex emoryi Dewey	Emory's Sedge	Native	5	OBL

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	Eleocharis palustris (L.) Roem. & Schult.	Soft-Stem Spike-Rush	Native	3	OBL
	Schoenoplectus tabernaemontani (C. C. Gmel.) Palla	Soft-Stem Wood Club-Rush	Native	3	OBL
	Scirpus pallidus (Britton) Fernald	Pale Bulrush	Native	5	OBL
Elaeagnaceae	Elaeagnus angustifolia L.	Russian-Olive	Introduced	0	FAC
Equisetaceae	Equisetum laevigatum A. Braun	Smooth Scouring-Rush	Native	4	FACW
Euphorbiaceae	Chamaesyce glyptosperma (Engelm.) Small	Rib-Seed Sandmat	Native	2	UPL
	Chamaesyce serpyllifolia (Pers.) Small	Thyme-Leaf Sandmat	Native	0	UPL
	Euphorbia esula L.	Leafy Spurge	Introduced	0	NA
Fabaceae	Amorpha fruticosa L.	False Indigo-Bush	Native	7	FACW
	Cercis canadensis L.	Redbud	Cultivated	0	UPL
	Colutea arborescens L.	Bladder-Senna	Cultivated	0	NA
	Gleditsia triacanthos L.	Honey-Locust	Cultivated	1	FAC
	Glycyrrhiza lepidota Pursh	American Licorice	Native	3	FAC
	Medicago lupulina L.	Black Medick	Introduced	0	FAC
	Medicago sativa L.	Alfalfa	Introduced	0	UPL
	Melilotus albus Medik.	White Sweet-Clover	Introduced	0	NA
	Melilotus officinalis (L.) Lam.	Yellow Sweet-Clover	Introduced	0	UPL
	Psoralidium tenuiflorum (Pursh) Rydb.	Slimflower Scurfpea	Native	5	UPL
	Robinia neomexicana A. Gray	New Mexico Locust	Cultivated	4	NA
	Robinia pseudoacacia L.	Black Locust	Cultivated	0	NA
	Securigera varia (L.) Lassen	Purple Crown-Vetch	Introduced	0	NA

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	<i>Vicia americana</i> var. <i>minor</i> Hook.	Mat Vetch	Native	6	FAC
Fagaceae	<i>Quercus bicolor</i> Willd.	Swamp White Oak	Cultivated	0	NA
	<i>Quercus gambelii</i> Nutt.	Gambel's Oak	Native	5	UPL
	<i>Quercus imbricaria</i> Michx.	Shingle Oak	Cultivated	0	NA
	<i>Quercus macrocarpa</i> Michx.	Burr Oak	Cultivated	0	FAC
	<i>Quercus muhlenbergii</i> Engelm.	Chinkapin Oak	Cultivated	0	FAC
Geraniaceae	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	Red-Stem Stork's-Bill	Introduced	0	NA
Grossulariaceae	<i>Ribes aureum</i> Pursh	Golden Currant	Native	6	FAC
	<i>Ribes inerme</i> Rydb.	White-Stem Gooseberry	Native	5	FAC
Iridaceae	<i>Iris</i> sp. L.	Iris	Cultivated	0	NA
Lamiaceae	<i>Nepeta cataria</i> L.	Catnip	Introduced	0	FACU
	<i>Nepeta racemosa</i> Lam.	Racemed Catnip	Introduced	0	NA
	<i>Perovskia atriplicifolia</i> Benth.	Russian-Sage	Cultivated	0	NA
Liliaceae	<i>Tulipa</i> sp. L.	NA	Cultivated	0	NA
Malvaceae	<i>Alcea</i> sp. L.	Hollyhock	Cultivated	0	NA
	<i>Callirhoe involucrata</i> (Torr. & A. Gray) A. Gray	Purple Poppy-Mallow	Native	5	UPL
	<i>Malva neglecta</i> Wallr.	Dwarf Mallow	Introduced	0	NA
	<i>Sphaeralcea coccinea</i> (Nutt.) Rydb.	Cowboy's Delights	Native	4	UPL
	<i>Tilia cordata</i> Mill.	Small-Leaf Linden	Cultivated	0	NA
Nyctaginaceae	<i>Mirabilis linearis</i> (Pursh) Heimerl	Narrow-Leaf Four-O'clock	Native	5	NA
	<i>Mirabilis nyctaginea</i> (Michx.) MacMill.	Heart-Leaf Four-O'clock	Native	2	FACU
Oleaceae	<i>Fraxinus americana</i> L.	White Ash	Cultivated	0	FACU

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	Fraxinus pennsylvanica Marsh.	Green Ash	Native	0	FACW
	Ligustrum vulgare L.	European Privet	Cultivated	0	NA
	Syringa vulgaris L.	Common Lilac	Cultivated	0	NA
Onagraceae	Oenothera curtiflora W. L. Wagner & Hoch	Velvetweed	Native	1	FACU
	Oenothera suffrutescens (Ser.) W. L. Wagner & Hoch	Scarlet Beeblossom	Native	5	UPL
	Oenothera villosa Thunb.	Hairy Evening-Primrose	Native	4	FAC
Pinaceae	Picea pungens Engelm.	Blue Spruce	Native	6	FAC
	Picea sp. A. Dietr.	Spruce	NA	NA	NA
	Pinus edulis Engelm.	Two-Needle Pinyon	Native	6	UPL
	Pinus ponderosa P.& C. Lawson	Ponderosa Pine	Native	5	FACU
	Pinus sp. L.	Pine	NA	NA	NA
Plantaginaceae	Linaria dalmatica (L.) P. Mill.	Dalmatian Toadflax	Introduced	0	NA
	Penstemon albidus Nutt.	Red-Line Beardtongue	Native	5	UPL
	Plantago lanceolata L.	Narrowleaf Plantain	Introduced	0	FAC
	Plantago major L.	Great Plantain	Introduced	0	FAC
Poaceae	Agropyron cristatum (L.) Gaertn.	Crested Wheat Grass	Introduced	0	UPL
	Alopecurus arundinaceus Poir.	Creeping Meadow-Foxtail	Introduced	0	FAC
	Bouteloua curtipendula (Michx.) Torr.	Side-Oats Grama	Native	6	UPL
	Bouteloua gracilis (Kunth) Lag. ex Griffiths	Blue Grama	Native	4	UPL
	Bromus catharticus subsp. catharticus	NA	Introduced	0	NA
	Bromus inermis Leyss.	Smooth Brome	Introduced	0	FACU

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	Bromus sp. L.	Brome	NA	NA	NA
	<i>Bromus tectorum</i> L.	Cheat Grass	Introduced	0	UPL
	Buchloe dactyloides (Nutt.) Engelm.	Buffalo Grass	Native	4	UPL
	Chloris verticillata Nutt.	Tumble Windmill Grass	Native	1	UPL
	Dactylis glomerata L.	Orchard Grass	Introduced	0	FACU
	Diplachne fusca subsp. fascicularis (Lam.) P. M. Peterson & N. Snow	Bearded Sprangletop	Native	4	FACW
	Echinochloa crus-galli (L.) P. Beauv.	Large Barnyard Grass	Introduced	0	FACW
	Echinochloa muricata subsp. Microstachya (Wiegand) P.Jauzein	Rough Barnyard Grass	Introduced	0	FACW
	Elymus canadensis L.	Nodding Wild Rye	Native	4	FAC
	<i>Elymus repens</i> (L.) Gould	Creeping Wild Rye	Introduced	0	FAC
	Festuca rubra L.	Red Fescue	Introduced	5	FAC
	Festuca sp. L.	Fescue	NA	NA	NA
	Hesperostipa comata (Trin. & Rupr.) Barkworth	Needle-and-Thread	Native	6	UPL
	Hordeum murinum L.	Wall Barley	Introduced	0	FACU
	Leersia oryzoides (L.) Sw.	Rice Cut Grass	Native	0	OBL
	Lolium perenne L.	Perennial Rye Grass	Introduced	0	FAC
	Nassella viridula (Trin.) Barkworth	Green Tussock Grass	Native	4	UPL
	Panicum capillare L.	Common Panic Grass	Native	0	FACU
	Phalaris arundinacea L.	Reed Canary Grass	Native	0	FACW

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	<i>Poa bulbosa</i> L.	Bulbous Blue Grass	Introduced	0	FACU
	<i>Poa palustris</i> L.	Fowl Blue Grass	Native	6	FAC
	<i>Poa pratensis</i> L.	Kentucky Blue Grass	Introduced	0	FAC
	<i>Psathyrostachys juncea</i> (Fisch.) Nevski	Russian-Wild Rye	Introduced	0	UPL
	<i>Schedonorus arundinaceus</i> (Schreb.) Dumort.	Tall Fescue	Introduced	0	FACU
	<i>Setaria viridis</i> (L.) P. Beauv.	Green Bristle Grass	Introduced	0	NA
	<i>Sporobolus cryptandrus</i> (Torr.) A. Gray	Sand Dropseed	Native	2	FACU
	<i>Thinopyrum intermedium</i> (Host) Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
	<i>Triticum aestivum</i> L.	Bread Wheat	Introduced	0	NA
Polygonaceae	<i>Fallopia convolvulus</i> (L.) ÁŁLöve	Black-Bindweed	Native	0	FACU
	<i>Persicaria hydropiper</i> (L.) Spach	Mild Water-Pepper	Introduced	0	OBL
	<i>Persicaria maculosa</i> S. F. Gray	Spotted Lady's-Thumb	Introduced	0	FACW
	<i>Persicaria pensylvanica</i> (L.) M. Gómez	Pinkweed	Native	4	FACW
	<i>Polygonum aviculare</i> L.	Yard Knotweed	Introduced	0	FAC
	<i>Rumex</i> sp. L.	Dock	NA	NA	NA
	<i>Rumex stenophyllus</i> Ledeb.	Narrow-Leaf Dock	Introduced	0	FACW
	<i>Rumex utahensis</i> Rech. f.	Utah Willow Dock	Native	4	NA
Portulacaceae	<i>Portulaca oleracea</i> L.	Little-Hogweed	Introduced	0	FAC
Ranunculaceae	<i>Clematis ligusticifolia</i> Nutt.	Deciduous Traveler's-Joy	Native	4	FAC
Rhamnaceae	<i>Rhamnus cathartica</i> L.	European Buckthorn	Cultivated	0	FAC
Rosaceae	<i>Amelanchier</i> sp. Medik.	Serviceberry	NA	NA	NA

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	Cotoneaster acutifolius Turcz.	NA	Cultivated	0	NA
	Crataegus monogyna Jacq.	English Hawthorn	Introduced	0	FAC
	Crataegus sp. L.	Hawthorn	NA	NA	NA
	Crataegus sp. L.	Hawthorn	NA	NA	NA
	Fallugia paradoxa (D. Don) Endl. ex Torr.	Apache-Plume	Native	6	NA
	Malus sp. P. Mill.	Apple	Cultivated	0	NA
	Potentilla fruticosa L.	Golden-Hardhack	Native	4	NA
	Prunus americana Marshall	American Plum	Native	6	FACU
	Prunus cerasifera Ehrh.	Cherry Plum	Cultivated	0	NA
	Prunus sp.	NA	NA	NA	NA
	Prunus tomentosa Thunb.	Nanking Cherry	Cultivated	0	NA
	Prunus virginiana L.	Choke Cherry	Native	4	FAC
	Rosa blanda Aiton	Smooth Rose	Native	5	NA
	Spiraea sp. L.	NA	Cultivated	0	NA
	Spiraea vanhouttei (Briot) Zabel	Bridalwreath	Cultivated	0	NA
Rubiaceae	Galium aparine L.	Sticky-Willy	Introduced	0	FACU
	Galium odoratum (L.) Scop.	Sweet-Scented Bedstraw	Cultivated	0	NA
Salicaceae	Populus deltoides W. Bartram ex Marshall	Eastern Cottonwood	Native	4	FAC
	Salix amygdaloides Andersson	Peach-Leaf Willow	Native	5	FACW
	Salix eriocephala Michx.	Missouri Willow	Native	6	NA
	Salix fragilis L.	Crack Willow	Cultivated	0	FAC
Sapindaceae	Acer ginnala Maxim.	Amur Maple	Cultivated	0	NA

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	Acer sp. L.	Maple	Cultivated	0	NA
	Aesculus glabra Willd.	Ohio Buckeye	Cultivated	0	NA
Scrophulariaceae	<i>Verbascum thapsus</i> L.	Great Mullein	Introduced	0	FACU
Solanaceae	Lycium barbarum L.	Matrimony-Vine	Cultivated	0	NA
	Physalis longifolia Nutt.	Long-Leaf Ground-Cherry	Native	NA	NA
	Solanum rostratum Dunal	Buffalo Bur	Introduced	0	NA
	Solanum triflorum Nutt.	Cut-Leaf Nightshade	Native	2	NA
Verbenaceae	Verbena bracteata Cav. ex Lag. & Rodr.	Carpet Vervain	Introduced	0	FAC
Vitaceae	Parthenocissus vitacea (Knerr) A.S. Hitchc.	Thicket-Creeper	Native	NA	NA
	Vitis riparia Michx.	River-Bank Grape	Native	5	FAC
Zygophyllaceae	<i>Tribulus terrestris</i> L.	Puncturevine	Introduced	0	NA

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Adoxaceae	Sambucus canadensis L.	Common Elderberry	Cultivated	0	NA
	Viburnum lantana L.	Wayfaring-Tree	Cultivated	0	NA
	Viburnum opulus L.	Highbush-Cranberry	Cultivated	0	FACW
Aizoaceae	Delosperma sp.	NA	Introduced	0	NA
Alismataceae	Alisma triviale Pursh	Northern Water-Plantain	Native	3	OBL
	Sagittaria sp. L.	Arrowhead	Native	NA	OBL
Amaranthaceae	Amaranthus albus L.	Tumbleweed	Introduced	0	FACU
	Amaranthus blitoides S. Watson	Mat Amaranth	Native	4	FACU
	Amaranthus powellii S. Watson	Green Amaranth	Native	5	NA
	Amaranthus retroflexus L.	Red-Root	Introduced	0	FACU
	Chenopodium album L.	Lamb's-Quarters	Introduced	0	FACU
	Kochia scoparia (L.) Schrad.	Mexican-Fireweed	Introduced	0	NA
	Krascheninnikovia lanata (Pursh)				
	A.D.J. Meeuse & Smit	Winterfat	Native	8	UPL
Amaryllidaceae	Allium sp. L.	Onion	Cultivated	0	NA
Anacardiaceae	Rhus trilobata Nutt.	Skunkbush Sumac	Native	5	UPL
	Rhus typhina L.	Stag-Horn Sumac	Introduced	0	NA
Apiaceae	Aegopodium podagraria L.	Bishop's Goutweed	Cultivated	0	FAC
	<i>Conium maculatum</i> L.	Poison-Hemlock	Introduced	0	FACW
	Daucus carota L.	Queen Anne's-Lace	Introduced	0	UPL
Apocynaceae	Apocynum cannabinum L.	Indian-Hemp	Native	2	FAC

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	<i>Asclepias speciosa</i> Torr.	Showy Milkweed	Native	3	FAC
	<i>Vinca minor</i> L.	Lesser Periwinkle	Cultivated	0	NA
Araceae	<i>Lemna minuta</i> Kunth	Least Duckweed	Native	NA	OBL
Araliaceae	<i>Hedera helix</i> L.	English Ivy	Cultivated	0	FACU
Asparagaceae	<i>Asparagus officinalis</i> L.	Asparagus	Native	0	FACU
	<i>Maianthemum stellatum</i> (L.) Link	Starry False Solomon's-Seal	Native	7	FACU
	<i>Ornithogalum umbellatum</i> L.	Sleepydick	Cultivated	0	FACU
	<i>Yucca glauca</i> Nutt.	Soapweed Yucca	Native	4	UPL
Asteraceae	<i>Achillea filipendulina</i> Lam.	Fern-Leaf Yarrow	Cultivated	0	NA
	<i>Achillea millefolium</i> L.	Woolly Yarrow	Native	4	FACU
	<i>Ambrosia psilostachya</i> DC.	Perennial Ragweed	Native	3	FACU
		Skeleton-Leaf			
	<i>Ambrosia tomentosa</i> Nutt.	Burr-Ragweed	Native	3	NA
	<i>Ambrosia trifida</i> L.	Great Ragweed	Native	0	FAC
	<i>Arctium minus</i> (Hill) Bernh.	Lesser Burdock	Introduced	0	FACU
	<i>Artemisia campestris</i> L.	Pacific Wormwood	Native	5	UPL
	<i>Artemisia ludoviciana</i> Nutt.	White Sagebrush	Native	4	FACU
	<i>Bidens frondosa</i> L.	Devil's-Pitchfork	Introduced	0	FACW
	<i>Brickellia eupatorioides</i> (L.) Shinn.	False Boneset	Native	6	NA
	<i>Carduus nutans</i> L.	Nodding Plumeless-Thistle	Introduced	0	FACU
	<i>Centaurea dealbata</i> Willd. [excluded]	NA	Cultivated	0	NA

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	<i>Centaurea diffusa</i> Lam.	White Knapweed	Introduced	0	NA
	<i>Cichorium intybus</i> L.	Chicory	Introduced	0	FACU
	<i>Cirsium arvense</i> (L.) Scop.	Canadian Thistle	Introduced	0	FACU
	<i>Conyza canadensis</i> (L.) Cronquist	Canadian Horseweed	Introduced	0	NA
	<i>Dyssodia papposa</i> (Vent.) Hitchc.	Fetid-Marigold	Native	2	NA
	<i>Ericameria nauseosa</i> (Pallas ex Pursh) G.L. Nesom & Baird	Rubber-Rabbitbrush	Native	3	UPL
	<i>Erigeron divergens</i> Torr. & A. Gray	Rough Fleabane	Native	4	NA
	<i>Grindelia squarrosa</i> (Pursh) Dunal	Curly-Cup Gumweed	Native	1	FACU
	<i>Helianthus annuus</i> L.	Common Sunflower	Native	1	FACU
	<i>Helianthus petiolaris</i> Nutt.	Prairie Sunflower	Native	2	UPL
	<i>Heterotheca villosa</i> (Pursh) Shinnars	Hairy False Golden-Aster	Native	3	UPL
	<i>Lactuca serriola</i> L.	Prickly Lettuce	Introduced	0	FACU
	<i>Lygodesmia juncea</i> (Pursh) D. Don ex Hook.	Rush Skeleton-Plant	Native	4	UPL
	<i>Onopordum acanthium</i> L.	Scotch-Thistle	Introduced	0	NA
	<i>Scorzonera laciniata</i> L.	Cut-Leaf Viper-Grass	Introduced	0	NA
	<i>Solidago gigantea</i> Aiton	Late Goldenrod	Native	6	FACW
	<i>Solidago missouriensis</i> Nutt.	Missouri Goldenrod	Native	5	UPL
	<i>Sonchus oleraceus</i> L.	Common Sow-Thistle	Introduced	0	UPL
	<i>Symphotrichum boreale</i> (Torr. & A. Gray) ÅLöve & D. Löve	Boreal American-Aster	Native	7	OBL

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		White Heath			
	Symphyotrichum ericoides (L.) G. L. Nesom	American-Aster	Native	4	FAC
	Symphyotrichum falcatum (Lindl.) G.L. Nesom	Rough White Prairie American-Aster	Native	4	FACU
	Symphyotrichum porteri (A. Gray) G. L. Nesom	Smooth White American-Aster	Native	6	FACU
	Symphyotrichum sp. Nees	Aster	Native	NA	NA
	Taraxacum officinale F. H. Wigg.	Common Dandelion	Introduced	0	FACU
	Thelesperma megapotamicum (Spreng.) Kuntze	Hopi-Tea	Native	5	UPL
	Tragopogon dubius Scop.	Meadow Goat's-Beard	Introduced	0	NA
	Tragopogon porrifolius L.	Salsify	Introduced	0	NA
	Verbesina encelioides subsp. Exauriculata A. Gray	Golden Crownbeard	Introduced	0	FACU
	Xanthium strumarium L.	Rough Cocklebur	Introduced	0	FAC
Berberidaceae	Berberis aquifolium Pursh	Holly-Leaf Oregon-Grape	unknown	NA	NA
Boraginaceae	Asperugo procumbens L.	German-Madwort	Introduced	0	UPL
	Cynoglossum officinale L.	Gypsy-Flower	Introduced	0	FACU
	Lithospermum incisum Lehm.	Fringed Gromwell	Native	5	UPL
	Symphytum officinale L.	Common Comfrey	Cultivated	0	NA
Brassicaceae	Alyssum simplex Rudolphi	European Madwort	Introduced	0	UPL

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	Berteroa incana (L.) DC.	Hoary False Madwort	Introduced	0	NA
	Camelina microcarpa Andr. ex DC.	Little-Pod False Flax	Introduced	0	FACU
	Capsella bursa-pastoris (L.) Medik.	Shepherd's-Purse	Introduced	0	FACU
	Chorisporea tenella (Pall.) DC.	Crossflower	Introduced	0	NA
	Descurainia sophia (L.) Webb ex Prantl	Herb-Sophia	Introduced	0	NA
	Rorippa palustris (L.) Besser	Bog Yellowcress	Native	NA	OBL
	Thlaspi arvense L.	Field Pennycress	Introduced	0	UPL
Campanulaceae	Campanula glomerata L.	Dane's-Blood	Cultivated	0	NA
	Campanula rapunculoides L.	Creeping Bellflower	Cultivated	0	NA
Cannabaceae	Celtis occidentalis L.	Common Hackberry	Cultivated	0	FAC
Caprifoliaceae	Dipsacus laciniatus L.	Cut-Leaf Teasel	Introduced	0	FACU
	Lonicera tatarica L.	Twinsisters	Cultivated	0	UPL
	Symphoricarpos occidentalis Hook.	Western Snowberry	Native	3	FAC
Caryophyllaceae	Saponaria officinalis L.	Bouncing-Bett	Introduced	0	FACU
Celastraceae	Euonymus europaeus L.	European Spindletree	Cultivated	0	NA
	Euonymus kiautschovica Loes., orth.	NA	Cultivated	0	NA
Commelinaceae	Tradescantia occidentalis (Britt.) Smyth	Prairie Spiderwort	Native	5	FACU
Convolvulaceae	<i>Convolvulus arvensis</i> L.	Field Bindweed	Introduced	0	NA
	Ipomoea leptophylla Torr.	Bush Morning-Glory	Native	6	UPL
Crassulaceae	Sedum spurium M. Bieb.	Two-Row Stonecrop	Cultivated	0	NA
Cucurbitaceae	Cucurbita foetidissima Kunth	Missouri Gourd	Native	2	UPL

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Cupressaceae	Echinocystis lobata (Michx.) Torr. & A. Gray	Wild Cucumber	Native	3	FACU
	Juniperus scopulorum Sarg.	Rocky Mountain Juniper	Native	5	UPL
Cyperaceae	Bolboschoenus maritimus var. paludosus (A.Nelson) Dorn	Alkali Bulrush	Native	NA	FACW
	Carex brevior (Dewey) Mack. ex Lunell	Short-Beak Sedge	Native	5	FAC
	Carex emoryi Dewey	Emory's Sedge	Native	5	OBL
	Carex praegracilis W. Boott	Clustered Field Sedge	Native	5	FACW
	Carex vulpinoidea Michx.	Common Fox Sedge	Native	5	OBL
	Eleocharis palustris (L.) Roem. & Schult.	Soft-Stem Spike-Rush	Native	3	OBL
	Schoenoplectus tabernaemontani (C. C. Gmel.) Palla	Soft-Stem Wood Club-Rush	Native	3	OBL
	Scirpus microcarpus J. Presl & K. Presl	Red-Tinge Bulrush	Native	5	OBL
	Scirpus pallidus (Britton) Fernald	Pale Bulrush	Native	5	OBL
Elaeagnaceae	Elaeagnus angustifolia L.	Russian-Olive	Introduced	0	FAC
Equisetaceae	Equisetum laevigatum A. Braun	Smooth Scouring-Rush	Native	4	FACW
Euphorbiaceae	Chamaesyce glyptosperma (Engelm.) Small	Rib-Seed Sandmat	Native	2	UPL
	Chamaesyce serpyllifolia (Pers.) Small	Thyme-Leaf Sandmat	Native	0	UPL
	Chamaesyce stictospora (Engelm.) Small	Slim-Seed Sandmat	Native	1	UPL
	Croton texensis (Klotzsch) Muell.-Arg.	Texas Croton	Native	2	UPL
	Euphorbia dentata Michx.	Toothed Spurge	Native	1	NA
	Euphorbia esula L.	Leafy Spurge	Introduced	0	NA

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Fabaceae	Astragalus cicer L.	Chickpea Milk-Vetch	Introduced	0	NA
	Cercis canadensis L.	Redbud	Cultivated	0	UPL
	Gleditsia triacanthos L.	Honey-Locust	Cultivated	1	FAC
	Glycyrrhiza lepidota Pursh	American Licorice	Native	3	FAC
	Lathyrus sylvestris L.	Narrow-Leaf Vetchling	Introduced	0	NA
	Lupinus argenteus Pursh	Silver-Stem Lupine	Native	5	NA
	Medicago lupulina L.	Black Medick	Introduced	0	FAC
	Medicago sativa L.	Alfalfa	Introduced	0	UPL
	Melilotus albus Medik.	White Sweet-Clover	Introduced	0	NA
	Melilotus officinalis (L.) Lam.	Yellow Sweet-Clover	Introduced	0	UPL
	Psoraleidum lanceolatum (Pursh) Rydb.	Lemon Scurfpea	Native	5	UPL
	Psoraleidum tenuiflorum (Pursh) Rydb.	Slimflower Scurfpea	Native	5	UPL
	Securigera varia (L.) Lassen	Purple Crown-Vetch	Introduced	0	NA
	Trifolium pratense L.	Red Clover	Introduced	0	FACU
	Trifolium repens L.	White Clover	Introduced	0	FACU
Fagaceae	Quercus bicolor Willd.	Swamp White Oak	Cultivated	0	NA
	Quercus macrocarpa Michx.	Burr Oak	Cultivated	0	FAC
Geraniaceae	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	Red-Stem Stork's-Bill	Introduced	0	NA
Grossulariaceae	Ribes aureum Pursh	Golden Currant	Native	6	FAC
Hydrangeaceae	Philadelphus coronarius L.	Sweet Mock Orange	Cultivated	0	NA
Juncaceae	Juncus compressus Jacq.	Round-Fruit Rush	Introduced	0	OBL

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	Juncus dudleyi Wiegand	Dudley's Rush	Native	5	FAC
	Juncus effusus L.	Lamp Rush	Introduced	0	FACW
	Juncus torreyi Coville	Torrey's Rush	Native	5	FACW
Lamiaceae	Agastache foeniculum (Pursh) Kuntze	Blue Giant-Hyssop	Native	3	UPL
	Nepeta cataria L.	Catnip	Introduced	0	FACU
	Nepeta racemosa Lam.	Racemed Catnip	Introduced	0	NA
	Salvia reflexa Hornem.	Lance-Leaf Sage	Native	2	UPL
	Stachys byzantina K. Koch	Woolly Hedge-Nettle	Cultivated	0	NA
Linaceae	Linum lewisii Pursh	Prairie Flax	Native	4	NA
Loasaceae	Mentzelia nuda (Pursh) Torr. & A. Gray	Goodmother	Native	4	NA
Malvaceae	Malva neglecta Wallr.	Dwarf Mallow	Introduced	0	NA
	Sphaeralcea coccinea (Nutt.) Rydb.	Cowboy's Delights	Native	4	UPL
	Tilia americana L.	American Basswood	Cultivated	0	FACU
Martyniaceae	Proboscidea louisianica (Mill.) Thell.	Ram's-Horn	Native	1	FACU
Moraceae	Morus alba L.	White Mulberry	Cultivated	0	FACU
Nyctaginaceae	Mirabilis lanceolata (Rydb.) Standl.	Narrow-Leaf Four-O'clock	Native	NA	NA
	Mirabilis linearis (Pursh) Heimerl	Narrow-Leaf Four-O'clock	Native	5	NA
	Mirabilis nyctaginea (Michx.) MacMill.	Heart-Leaf Four-O'clock	Native	2	FACU
Oleaceae	Fraxinus americana L.	White Ash	Cultivated	0	FACU
	Fraxinus pennsylvanica Marsh.	Green Ash	Native	0	FACW
	Ligustrum vulgare L.	European Privet	Cultivated	0	NA

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	Syringa sp. L.	NA	Cultivated	0	NA
	Syringa vulgaris L.	Common Lilac	Cultivated	0	NA
Onagraceae	Oenothera curtiflora W. L. Wagner & Hoch	Velvetweed	Native	1	FACU
	Oenothera villosa Thunb.	Hairy Evening-Primrose	Native	4	FAC
		Slender Yellow			
Oxalidaceae	Oxalis dillenii Jacq.	Wood-Sorrel	Native	NA	FACU
	Argemone polyanthemus (Fedde)				
Papaveraceae	G. B. Ownbey	White Prickly-Poppy	Native	3	UPL
	Papaver orientale L.	Oriental Poppy	Cultivated	0	NA
Pinaceae	Picea pungens Engelm.	Blue Spruce	Native	6	FAC
	Picea sp.	NA	unknown	NA	NA
	Pinus edulis Engelm.	Two-Needle Pinyon	Native	6	UPL
	Pinus ponderosa P.& C. Lawson	Ponderosa Pine	Native	5	FACU
	Pinus sp. L.	Pine	unknown	NA	NA
	Pinus sylvestris L.	Scotch Pine	Cultivated	0	NA
	Pseudotsuga menziesii (Mirbel) Franco	Douglas-Fir	Native	5	NA
Plantaginaceae	Plantago lanceolata L.	Narrowleaf Plantain	Introduced	0	FAC
	Plantago major L.	Great Plantain	Introduced	0	FAC
	Veronica anagallis-aquatica L.	Blue Water Speedwell	Native	0	OBL
	Achnatherum hymenoides				
Poaceae	(Roemer & J.A. Schultes) Barkworth	Indian Rice Grass	Native	5	UPL

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	<i>Agropyron cristatum</i> (L.) Gaertn.	Crested Wheat Grass	Introduced	0	UPL
	<i>Agrostis stolonifera</i> L.	Spreading Bent	Introduced	0	FACW
	<i>Andropogon gerardii</i> Vitman	Big Bluestem	Native	9	FACU
	<i>Andropogon hallii</i> Hack.	Sand Bluestem	Native	8	UPL
	<i>Aristida purpurea</i> Nutt.	Purple Three-Awn	Native	3	UPL
	<i>Bothriochloa laguroides</i> (DC.) Herter	Silver Beard Grass	Native	2	NA
	<i>Bouteloua curtipendula</i> (Michx.) Torr.	Side-Oats Grama	Native	6	UPL
	<i>Bouteloua gracilis</i> (Kunth) Lag. ex Griffiths	Blue Grama	Native	4	UPL
	<i>Bromus inermis</i> Leyss.	Smooth Brome	Introduced	0	FACU
	<i>Bromus tectorum</i> L.	Cheat Grass	Introduced	0	UPL
	<i>Buchloe dactyloides</i> (Nutt.) Engelm.	Buffalo Grass	Native	4	UPL
	<i>Calamovilfa longifolia</i> (Hook.) Scribn.	Prairie Sandreed	Native	7	UPL
	<i>Cenchrus longispinus</i> (Hack.) Fernald	Innocent-Weed	Native	1	UPL
	<i>Chloris verticillata</i> Nutt.	Tumble Windmill Grass	Native	1	UPL
	<i>Chloris virgata</i> Sw.	Feather Windmill Grass	Native	0	FACU
	<i>Dactylis glomerata</i> L.	Orchard Grass	Introduced	0	FACU
	<i>Digitaria sanguinalis</i> (L.) Scop.	Hairy Crab Grass	Native	0	FACU
	<i>Distichlis stricta</i> (Torr.) Rydb.	Coastal Salt Grass	Native	4	FAC
	<i>Echinochloa crus-galli</i> (L.) P. Beauv.	Large Barnyard Grass	Introduced	0	FACW
	<i>Elymus repens</i> (L.) Gould	Creeping Wild Rye	Introduced	0	FAC
	<i>Elymus</i> sp. L.	Wildrye	unknown	NA	

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	<i>Elymus trachycaulis</i> (Link) Gould	Slender Wild Rye	Native	4	FACU
	<i>Eragrostis cilianensis</i> (All.) Vignolo ex Janch.	Stink Grass	Introduced	0	FACU
	<i>Eragrostis minor</i> Host	Little Love Grass	Introduced	0	NA
	<i>Eragrostis pectinacea</i> (Michx.) Nees ex Steud.	Purple Love Grass	Native	1	FAC
	<i>Festuca rubra</i> L.	Red Fescue	Introduced	5	FAC
	<i>Festuca</i> sp. L.	Fescue	unknown	NA	NA
	<i>Glyceria grandis</i> S. Watson	American Manna Grass	Native	6	OBL
	<i>Hesperostipa comata</i> (Trin. & Rupr.) Barkworth	Needle-and-Thread	Native	6	UPL
	<i>Hordeum jubatum</i> L.	Fox-Tail Barley	Native	2	FAC
	<i>Hordeum murinum</i> L.	Wall Barley	Introduced	0	FACU
	<i>Lolium perenne</i> L.	Perennial Rye Grass	Introduced	0	FAC
	<i>Muhlenbergia racemosa</i> (Michx.) Britton, Sterns & Poggenb.	Green Muhly	Native	5	FACW
	<i>Munroa squarrosa</i> (Nutt.) Torr.	False Buffalo Grass	Native	NA	UPL
	<i>Nassella viridula</i> (Trin.) Barkworth	Green Tussock Grass	Native	4	
	<i>Panicum capillare</i> L.	Common Panic Grass	Native	0	FACU
	<i>Panicum virgatum</i> L.	Wand Panic Grass	Native	5	FACW
	<i>Phalaris arundinacea</i> L.	Reed Canary Grass	Native	0	FACW

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	Poa annua L.	Annual Blue Grass	Introduced	0	FAC
	<i>Poa bulbosa</i> L.	Bulbous Blue Grass	Introduced	0	FACU
	Poa compressa L.	Flat-Stem Blue Grass	Introduced	0	FACU
	Poa palustris L.	Fowl Blue Grass	Native	6	FAC
	Poa pratensis L.	Kentucky Blue Grass	Introduced	0	FAC
	Psathyrostachys juncea (Fisch.) Nevski	Russian-Wild Rye	Introduced	0	UPL
	Schedonorus arundinaceus (Schreb.) Dumort.	Tall Fescue	Introduced	0	FACU
	Schizachyrium scoparium (Michx.) Nash	Little False Bluestem	Native	5	FACU
	Secale cereale L.	Cultivated Rye	Introduced	0	NA
	Setaria viridis (L.) P. Beauv.	Green Bristle Grass	Introduced	0	NA
	Sorghastrum nutans (L.) Nash	Yellow Indian Grass	Native	10	FACU
	Sporobolus cryptandrus (Torr.) A. Gray	Sand Dropseed	Native	2	FACU
	Thinopyrum intermedium (Host) Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
	Thinopyrum intermedium (Host) Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
Polemoniaceae	Phlox paniculata L.	Fall Phlox	Introduced	0	FACU
Polygonaceae	Eriogonum effusum Nutt.	Spreading Wild Buckwheat	Native	4	UPL
	Fallopia scandens (L.) Holub	Climbing Black-Bindweed	Native	0	FACU
	Persicaria bicornis (Raf.) Nieuwl.	Pink Knotweed	Native	4	FACW

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	Persicaria hydropiper (L.) Spach	Mild Water-Pepper	Introduced	0	OBL
	Persicaria maculosa S. F. Gray	Spotted Lady's-Thumb	Introduced	0	FACW
	Persicaria pensylvanica (L.) M. Gómez	Pinkweed	Native	4	FACW
	Polygonum aviculare L.	Yard Knotweed	Introduced	0	FAC
	Rumex sp. L.	Dock	unknown	NA	NA
	Rumex stenophyllus Ledeb.	Narrow-Leaf Dock	Introduced	0	FACW
Portulacaceae	Portulaca oleracea L.	Little-Hogweed	Introduced	0	FAC
Potamogetonaceae	Potamogeton foliosus Raf.	Leafy Pondweed	Native	4	OBL
Ranunculaceae	Clematis ligusticifolia Nutt.	Deciduous Traveler's-Joy	Native	4	FAC
	Consolida ambigua (L.) P.W. Ball & Heywood	Doubtful Knight's-Spur	Cultivated	0	NA
Rhamnaceae	Rhamnus cathartica L.	European Buckthorn	Cultivated	0	FAC
Rosaceae	Amelanchier sp. Medik.	Serviceberry	unknown	NA	NA
	Cotoneaster lucidus Schltdl.	Hairy-Stem Cotoneaster	Cultivated	0	NA
	Crataegus mollis (Torr. & A. Gray) Scheele	Downy Hawthorn	Cultivated	0	NA
	Crataegus sp. L.	Hawthorn	unknown	NA	NA
	Crataegus succulenta Schrad. ex Link	Bicknell's Hawthorn	Native	5	FAC
	Malus sp. P. Mill.	Apple	Cultivated	0	NA
	Potentilla recta L.	Sulphur Cinquefoil	Introduced	0	NA
	Prunus americana Marshall	American Plum	Native	6	FACU
	Prunus cerasifera Ehrh.	Cherry Plum	Cultivated	0	NA

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Urban Refuge Zone

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	<i>Prunus persica</i> (L.) Batsch	Peach	Cultivated	0	NA
	<i>Prunus</i> sp. L.	Plum	unknown	NA	NA
	<i>Prunus tomentosa</i> Thunb.	Nanking Cherry	Cultivated	0	NA
	<i>Prunus virginiana</i> L.	Choke Cherry	Native	4	FAC
	<i>Pyracantha</i> sp. M. Roem.	Firethorn	Cultivated	0	NA
	<i>Pyrus</i> sp. L.	NA	Cultivated	0	NA
	<i>Rosa blanda</i> Aiton	Smooth Rose	Native	5	NA
	<i>Rosa</i> sp. L.	Rose	Cultivated	0	NA
	<i>Spiraea vanhouttei</i> (Briot) Zabel	Bridalwreath	Cultivated	0	NA
Salicaceae	<i>Populus deltoides</i> W. Bartram ex Marshall	Eastern Cottonwood	Native	4	FAC
	<i>Salix amygdaloides</i> Andersson	Peach-Leaf Willow	Native	5	FACW
	<i>Salix babylonica</i> auct. non L.	Weeping Willow	Cultivated	0	FAC
	<i>Salix exigua</i> subsp. <i>exigua</i> Nutt.	Coyote Willow	Native	3	FACW
	<i>Salix fragilis</i> L.	Crack Willow	Cultivated	0	FAC
Sapindaceae	<i>Acer ginnala</i> Maxim.	Amur Maple	Cultivated	0	NA
	<i>Acer negundo</i> L.	Ash-Leaf Maple	Introduced	0	FACW
	<i>Acer saccharinum</i> L.	Silver Maple	Cultivated	0	FAC
	<i>Aesculus glabra</i> Willd.	Ohio Buckeye	Cultivated	0	NA
	<i>Koeleruteria paniculata</i> Laxm.	Golden Rain-Tree	Cultivated	0	NA
Scrophulariaceae	<i>Buddleja davidii</i> Franch.	Orange-Eye Butterfly-Bush	Cultivated	0	FACU
	<i>Verbascum thapsus</i> L.	Great Mullein	Introduced	0	FACU

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Simaroubaceae	Ailanthus altissima (Mill.) Swingle	Tree-of-Heaven	Cultivated	0	FACU
Solanaceae	Lycium barbarum L.	Matrimony-Vine	Cultivated	0	NA
	Physalis hispida (Waterfall) Cronq.	Prairie Groundcherry	Native	5	NA
	Physalis longifolia Nutt.	Long-Leaf Ground-Cherry	Native	NA	NA
	Solanum nigrum L.	European Black Nightshade	Native	2	FACU
	Solanum rostratum Dunal	Buffalo Bur	Introduced	0	NA
	Solanum triflorum Nutt.	Cut-Leaf Nightshade	Native	2	NA
Typhaceae	Typha angustifolia L.	Narrow-Leaf Cat-Tail	Native	0	OBL
	Typha domingensis Pers.	Southern Cat-Tail	Native	4	OBL
	Typha latifolia L.	Broad-Leaf Cat-Tail	Native	2	OBL
Ulmaceae	Ulmus americana L.	American Elm	Native	NA	FAC
	Ulmus pumila L.	Siberian Elm	Introduced	0	UPL
Urticaceae	Urtica dioica L.	Stinging Nettle	Native	3	FAC
Verbenaceae	Verbena bracteata Cav. ex Lag. & Rodr.	Carpet Vervain	Introduced	0	FAC
Vitaceae	Parthenocissus vitacea (Knerr) A.S. Hitchc.	Thicket-Creeper	Native	NA	NA
Xanthorrhoeaceae	Hemerocallis sp. L.	NA	Cultivated	0	FACU
Zygophyllaceae	Tribulus terrestris L.	Puncturevine	Introduced	0	NA

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Amaranthaceae	Amaranthus albus L.	Tumbleweed	Introduced	0	FACU
	Amaranthus powellii S. Watson	Green Amaranth	Native	5	NA
	Amaranthus retroflexus L.	Red-Root	Introduced	0	FACU
	Chenopodium atrovirens Rydb.	Pinyon Goosefoot	Native	5	UPL
	Chenopodium berlandieri subsp. Zschackii (J. Murr) Zobel	Zschack's Goosefoot	Native	2	NA
	Chenopodium hians Standl.	Hians Goosefoot	Native	NA	UPL
	Kochia scoparia (L.) Schrad.	Mexican-Fireweed	Introduced	0	NA
	Monolepis nuttalliana (Schult.) Greene	Nuttall's Poverty-Weed	Native	4	FAC
	Salsola tragus L.	Prickly Russian-Thistle	Introduced	0	FACU
Apocynaceae	Asclepias speciosa Torr.	Showy Milkweed	Native	3	FAC
Araceae	Lemna minor L.	Common Duckweed	Native	2	OBL
Asparagaceae	Asparagus officinalis L.	Asparagus	Native	0	FACU
	Yucca glauca Nutt.	Soapweed Yucca	Native	4	UPL
Asteraceae	Achillea millefolium L.	Woolly Yarrow	Native	4	FACU
	Ambrosia psilostachya DC.	Perennial Ragweed	Native	3	FACU
	Ambrosia trifida L.	Great Ragweed	Native	0	FAC
	Artemisia ludoviciana Nutt.	White Sagebrush	Native	4	FACU
	Carduus nutans L.	Nodding Plumeless-Thistle	Introduced	0	FACU
	Centaurea diffusa Lam.	White Knapweed	Introduced	0	NA
	Cirsium arvense (L.) Scop.	Canadian Thistle	Introduced	0	FACU

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	<i>Conyza canadensis</i> (L.) Cronquist	Canadian Horseweed	Introduced	0	NA
	<i>Dieteria bigelovii</i> var. <i>bigelovii</i> (A. Gray) D.R. Morgan & R.L. Hartm.	Bigelow's Tansy-Aster	Native	3	FACW
	<i>Dyssodia papposa</i> (Vent.) Hitchc.	Fetid-Marigold	Native	2	NA
	<i>Ericameria nauseosa</i> (Pallas ex Pursh) G.L. Nesom & Baird	Rubber-Rabbitbrush	Native	3	UPL
	<i>Erigeron divergens</i> Torr. & A. Gray	Rough Fleabane	Native	4	NA
	<i>Grindelia squarrosa</i> (Pursh) Dunal	Curly-Cup Gumweed	Native	1	FACU
	<i>Helianthus annuus</i> L.	Common Sunflower	Native	1	FACU
	<i>Helianthus petiolaris</i> Nutt.	Prairie Sunflower	Native	2	UPL
	<i>Heterotheca villosa</i> (Pursh) Shinnery	Hairy False Golden-Aster	Native	3	UPL
	<i>Lactuca serriola</i> L.	Prickly Lettuce	Introduced	0	FACU
	<i>Lactuca tatarica</i> subsp. <i>pulchella</i> (Pursh) Stebbins	Blue Lettuce	Native	3	FAC
	<i>Lygodesmia juncea</i> (Pursh) D. Don ex Hook.	Rush Skeleton-Plant	Native	4	UPL
	<i>Onopordum acanthium</i> L.	Scotch-Thistle	Introduced	0	NA
	<i>Packera tridenticulata</i> (Rydb.) W.A. Weber & A. Löve	Threetooth Ragwort	Native	7	UPL
	<i>Picradeniopsis oppositifolia</i> (Nutt.) Rydb. ex Britt.	Opposite-Leaf False Bahia	Native	2	UPL
	<i>Ratibida columnifera</i> (Nutt.) Wootton & Standl.	Red-Spike Mexican-Hat	Native	4	UPL

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	Scorzonera laciniata L.	Cut-Leaf Viper-Grass	Introduced	0	NA
	Senecio spartioides Torr. & A. Gray	Broom-Like Ragwort	Native	5	UPL
	Solidago gigantea Aiton	Late Goldenrod	Native	6	FACW
	Solidago missouriensis Nutt.	Missouri Goldenrod	Native	5	UPL
	Symphyotrichum ericoides (L.) G. L. Nesom	White Heath American-Aster	Native	4	FAC
	Symphyotrichum falcatum (Lindl.) G.L. Nesom	Rough White Prairie American-Aster	Native	4	FACU
	Symphyotrichum sp.	NA	Native	NA	NA
	Taraxacum officinale F. H. Wigg.	Common Dandelion	Introduced	0	FACU
	Thelesperma megapotamicum (Spreng.) Kuntze	Hopi-Tea	Native	5	UPL
	Tragopogon dubius Scop.	Meadow Goat's-Beard	Introduced	0	NA
	Verbesina encelioides subsp. Exauriculata A. Gray	Golden Crownbeard	Introduced	0	FACU
	Xanthium strumarium L.	Rough Cocklebur	Introduced	0	FAC
Boraginaceae	Asperugo procumbens L.	German-Madwort	Introduced	0	UPL
	Cryptantha minima Rydb.	Little Cat's-Eye	Native	3	UPL
	Lappula occidentalis var. occidentalis (S. Watson) Greene	Flatspine Stickseed	Introduced	2	NA
	Lithospermum incisum Lehm.	Fringed Gromwell	Native	5	UPL
Brassicaceae	Alyssum desertorum Stapf	Desert Madwort	Introduced	0	UPL

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	Alyssum simplex Rudolphi	European Madwort	Introduced	0	UPL
	Camelina sativa (L.) Crantz	Gold-of-Pleasure	Introduced	0	FACU
	Capsella bursa-pastoris (L.) Medik.	Shepherd's-Purse	Introduced	0	FACU
	Chorisporea tenella (Pall.) DC.	Crossflower	Introduced	0	NA
	Descurainia sophia (L.) Webb ex Prantl	Herb-Sophia	Introduced	0	NA
	Hesperis matronalis L.	Dame's Rocket	Introduced	0	FACU
	Lepidium densiflorum Schrad.	Miner's Pepperwort	Introduced	0	UPL
	Lepidium draba L.	Heart-Pod Pepperwort	Introduced	0	NA
	Sisymbrium altissimum L.	Tall Hedge-Mustard	Introduced	0	FACU
	Thlaspi arvense L.	Field Pennycress	Introduced	0	UPL
Cactaceae	Opuntia fragilis (Nutt.) Haw.	Pygmy Prickly-Pear	Native	3	UPL
Cannabaceae	Celtis occidentalis L.	Common Hackberry	Cultivated	0	FAC
Caprifoliaceae	Dipsacus laciniatus L.	Cut-Leaf Teasel	Introduced	0	FACU
	Lonicera tatarica L.	Twinsisters	Cultivated	0	UPL
	Symphoricarpos occidentalis Hook.	Western Snowberry	Native	3	FAC
Chenopodiaceae	Atriplex subspicata (Nutt.) Rydb.	Saline Saltbrush	Native	NA	NA
Commelinaceae	Tradescantia occidentalis (Britt.) Smyth	Prairie Spiderwort	Native	5	FACU
Convolvulaceae	<i>Convolvulus arvensis</i> L.	Field Bindweed	Introduced	0	NA
	Ipomoea leptophylla Torr.	Bush Morning-Glory	Native	6	UPL
Cyperaceae	Carex brevior (Dewey) Mack. ex Lunell	Short-Beak Sedge	Native	5	FAC
	Carex emoryi Dewey	Emory's Sedge	Native	5	OBL

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	Cyperus schweinitzii Torr.	Sand Flat Sedge	Native	6	NA
	Eleocharis palustris (L.) Roem. & Schult.	Soft-Stem Spike-Rush	Native	3	OBL
	Schoenoplectus tabernaemontani (C. C. Gmel.) Palla	Soft-Stem Wood Club-Rush	Native	3	OBL
	Scirpus microcarpus J. Presl & K. Presl	Red-Tinge Bulrush	Native	5	OBL
Elaeagnaceae	Elaeagnus angustifolia L.	Russian-Olive	Introduced	0	FAC
Euphorbiaceae	Chamaesyce glyptosperma (Engelm.) Small	Rib-Seed Sandmat	Native	2	UPL
	Croton texensis (Klotzsch) Muell.-Arg.	Texas Croton	Native	2	UPL
	Euphorbia dentata Michx.	Toothed Spurge	Native	1	NA
	Euphorbia esula L.	Leafy Spurge	Introduced	0	NA
Fabaceae	Astragalus cicer L.	Chickpea Milk-Vetch	Introduced	0	NA
	Gleditsia triacanthos L.	Honey-Locust	Cultivated	1	FAC
	Glycyrrhiza lepidota Pursh	American Licorice	Native	3	FAC
	Lupinus caudatus Kellogg	Kellogg's Spurred Lupine	Native	5	NA
	Medicago lupulina L.	Black Medick	Introduced	0	FAC
	Medicago sativa L.	Alfalfa	Introduced	0	UPL
	Melilotus albus Medik.	White Sweet-Clover	Introduced	0	NA
	Melilotus officinalis (L.) Lam.	Yellow Sweet-Clover	Introduced	0	UPL
	Psoraleidum lanceolatum (Pursh) Rydb.	Lemon Scurfpea	Native	5	UPL
	Psoraleidum tenuiflorum (Pursh) Rydb.	Slimflower Scurfpea	Native	5	UPL
	Robinia neomexicana A. Gray	New Mexico Locust	Cultivated	4	NA

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	<i>Vicia americana</i> var. <i>minor</i> Hook.	Mat Vetch	Native	6	FAC
Fagaceae	<i>Quercus gambelii</i> Nutt.	Gambel's Oak	Native	5	UPL
	<i>Quercus macrocarpa</i> Michx.	Burr Oak	Cultivated	0	FAC
Geraniaceae	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	Red-Stem Stork's-Bill	Introduced	0	NA
Grossulariaceae	<i>Ribes aureum</i> Pursh	Golden Currant	Native	6	FAC
Juncaceae	<i>Juncus compressus</i> Jacq.	Round-Fruit Rush	Introduced	0	OBL
Lamiaceae	<i>Agastache foeniculum</i> (Pursh) Kuntze	Blue Giant-Hyssop	Native	3	UPL
	<i>Nepeta cataria</i> L.	Catnip	Introduced	0	FACU
Loasaceae	<i>Mentzelia nuda</i> (Pursh) Torr. & A. Gray	Goodmother	Native	4	NA
Malvaceae	<i>Malva neglecta</i> Wallr.	Dwarf Mallow	Introduced	0	NA
	<i>Sphaeralcea coccinea</i> (Nutt.) Rydb.	Cowboy's Delights	Native	4	UPL
	<i>Tilia americana</i> L.	American Basswood	Cultivated	0	FACU
Nyctaginaceae	<i>Abronia fragrans</i> Nutt. ex Hook.	Heart's-Delight	Native	6	UPL
	<i>Mirabilis linearis</i> (Pursh) Heimerl	Narrow-Leaf Four-O'clock	Native	5	NA
	<i>Mirabilis nyctaginea</i> (Michx.) MacMill.	Heart-Leaf Four-O'clock	Native	2	FACU
Oleaceae	<i>Fraxinus americana</i> L.	White Ash	Cultivated	0	FACU
	<i>Fraxinus pennsylvanica</i> Marsh.	Green Ash	Native	0	FACW
		White-Stem			
Onagraceae	<i>Oenothera albicaulis</i> Pursh	Evening-Primrose	Native	6	UPL
	<i>Oenothera curtiflora</i> W. L. Wagner & Hoch	Velvetweed	Native	1	FACU

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	<i>Oenothera suffrutescens</i> (Ser.)				
	W. L. Wagner & Hoch	Scarlet Beeblossom	Native	5	UPL
	<i>Oenothera villosa</i> Thunb.	Hairy Evening-Primrose	Native	4	FAC
	<i>Argemone polyanthemus</i> (Fedde)				
Papaveraceae	G. B. Ownbey	White Prickly-Poppy	Native	3	UPL
	<i>Eschscholzia californica</i> Cham.	California-Poppy	Cultivated	0	NA
Pinaceae	<i>Pinus ponderosa</i> P.& C. Lawson	Ponderosa Pine	Native	5	FACU
Plantaginaceae	<i>Veronica anagallis-aquatica</i> L.	Blue Water Speedwell	Native	0	OBL
Poaceae	<i>Agropyron cristatum</i> (L.) Gaertn.	Crested Wheat Grass	Introduced	0	UPL
	<i>Alopecurus arundinaceus</i> Poir.	Creeping Meadow-Foxtail	Introduced	0	FAC
	<i>Andropogon hallii</i> Hack.	Sand Bluestem	Native	8	UPL
	<i>Aristida purpurea</i> Nutt.	Purple Three-Awn	Native	3	UPL
	<i>Bouteloua curtipendula</i> (Michx.) Torr.	Side-Oats Grama	Native	6	UPL
	<i>Bouteloua gracilis</i> (Kunth) Lag. ex Griffiths	Blue Grama	Native	4	UPL
	<i>Bromus inermis</i> Leyss.	Smooth Brome	Introduced	0	FACU
	<i>Bromus japonicus</i> Thunb. ex Murr.	Japanese Brome	Introduced	0	UPL
	<i>Bromus tectorum</i> L.	Cheat Grass	Introduced	0	UPL
	<i>Buchloe dactyloides</i> (Nutt.) Engelm.	Buffalo Grass	Native	4	UPL
	<i>Calamovilfa longifolia</i> (Hook.) Scribn.	Prairie Sandreed	Native	7	UPL
	<i>Cenchrus longispinus</i> (Hack.) Fernald	Innocent-Weed	Native	1	UPL
	<i>Chloris verticillata</i> Nutt.	Tumble Windmill Grass	Native	1	UPL

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	<i>Elymus trachycaulis</i> (Link) Gould	Slender Wild Rye	Native	4	FACU
	<i>Eragrostis cilianensis</i> (All.) Vignolo ex Janch.	Stink Grass	Introduced	0	FACU
	<i>Hesperostipa comata</i> (Trin. & Rupr.) Barkworth	Needle-and-Thread	Native	6	UPL
	<i>Hordeum jubatum</i> L.	Fox-Tail Barley	Native	2	FAC
	<i>Hordeum murinum</i> L.	Wall Barley	Introduced	0	FACU
	<i>Hordeum pusillum</i> Nutt.	Little Barley	Native	1	FACU
	<i>Koeleria macrantha</i> (Ledeb.) Schult.	Prairie Koeler's Grass	Native	6	UPL
	<i>Nassella viridula</i> (Trin.) Barkworth	Green Tussock Grass	Native	4	UPL
	<i>Panicum virgatum</i> L.	Wand Panic Grass	Native	5	FACW
	<i>Pascopyrum smithii</i> (Rydb.) Barkworth & D. R. Dewey	Western-Wheat Grass	Native	5	FAC
	<i>Poa pratensis</i> L.	Kentucky Blue Grass	Introduced	0	FAC
	<i>Polypogon monspeliensis</i> (L.) Desf.	Annual Rabbit's-Foot Grass	Introduced	0	FACW
	<i>Schizachyrium scoparium</i> (Michx.) Nash	Little False Bluestem	Native	5	FACU
	<i>Secale cereale</i> L.	Cultivated Rye	Introduced	0	NA
	<i>Setaria viridis</i> (L.) P. Beauv.	Green Bristle Grass	Introduced	0	NA
	<i>Sorghastrum nutans</i> (L.) Nash	Yellow Indian Grass	Native	10	FACU
	<i>Sporobolus airoides</i> (Torr.) Torr.	Alkali-Sacaton	Native	5	FAC
	<i>Sporobolus cryptandrus</i> (Torr.) A. Gray	Sand Dropseed	Native	2	FACU

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Bolded species are Colorado List B noxious weeds.

Italicized species are Colorado List C noxious weeds.

NA = no data available.

Prairie Retreat Zone

<u>Family</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Status</u>	<u>Coefficient of Conservatism</u>	<u>Wetland Status Indicator</u>
	Thinopyrum intermedium (Host)				
	Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
	Thinopyrum intermedium (Host)				
	Barkworth & D.R. Dewey	Intermediate Quack Grass	Introduced	0	NA
		Eight-Flower Six-Weeks			
	Vulpia octoflora (Walter) Rydb.	Grass	Native	3	UPL
Polygonaceae	Polygonum aviculare L.	Yard Knotweed	Introduced	0	FAC
	Rumex crispus L.	Curly Dock	Introduced	0	FAC
	Rumex sp. L.	Dock	unknown	NA	NA
	Rumex venosus Pursh	Veiny Dock	Native	4	UPL
Portulacaceae	Portulaca oleracea L.	Little-Hogweed	Introduced	0	FAC
Ranunculaceae	Clematis ligusticifolia Nutt.	Deciduous Traveler's-Joy	Native	4	FAC
	Ranunculus sceleratus var. multifidus Nutt.	Blister butterup	Native	1	OBL
Rhamnaceae	Rhamnus cathartica L.	European Buckthorn	Cultivated	0	FAC
	Rhamnus frangula L.	Glossy Buckthorn	Cultivated	0	NA
Rosaceae	Potentilla fruticosa L.	Golden-Hardhack	Native	4	NA
	Prunus americana Marshall	American Plum	Native	6	FACU
	Rosa blanda Aiton	Smooth Rose	Native	5	NA
Salicaceae	Populus deltoides W. Bartram ex Marshall	Eastern Cottonwood	Native	4	FAC
	Salix amygdaloides Andersson	Peach-Leaf Willow	Native	5	FACW
	Salix exigua subsp. exigua Nutt.	Coyote Willow	Native	3	FACW

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Scrophulariaceae	<i>Verbascum thapsus</i> L.	Great Mullein	Introduced	0	FACU
	<i>Physalis hederifolia</i> var. <i>comata</i>				
Solanaceae	(Rydb.) Waterf.	Ivy-Leaf Ground Cherry	Native	5	NA
	<i>Physalis longifolia</i> Nutt.	Long-Leaf Ground-Cherry	Native	NA	NA
	<i>Solanum rostratum</i> Dunal	Buffalo Bur	Introduced	0	NA
	<i>Solanum triflorum</i> Nutt.	Cut-Leaf Nightshade	Native	2	NA
Typhaceae	<i>Typha latifolia</i> L.	Broad-Leaf Cat-Tail	Native	2	OBL
Verbenaceae	<i>Verbena bracteata</i> Cav. ex Lag. & Rodr.	Carpet Vervain	Introduced	0	FAC
Vitaceae	<i>Parthenocissus vitacea</i> (Knerr) A.S. Hitchc.	Thicket-Creeper	Native	NA	NA
Zygophyllaceae	<i>Tribulus terrestris</i> L.	Puncturevine	Introduced	0	NA