

# **Floristic Quality Assessment Indices for Colorado Plant Communities**

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**Colorado Natural Heritage Program  
Colorado State University  
254 General Services Building  
Fort Collins, CO 80523**

## **Floristic Quality Assessment Indices for Colorado Plant Communities**

### **Prepared for:**

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Cover photograph: *Pedicularis groenlandica*, *Castilleja rhexifolia*, *Carex aquatilis*, *Clementsia rhodantha*, and *Arnica mollis*. Photo by Joe Rocchio.

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## **EXECUTIVE SUMMARY**

The primary objective of the Clean Water Act is to "maintain and restore the chemical, physical, and biological integrity of the Nation's waters," which includes wetlands. Wetlands in Colorado have not only been lost from the landscape but have and continue to be impacted or degraded by multiple human activities associated with water use, transportation, recreation, mineral extraction, grazing, urbanization, and other land uses. In order to make informed management decisions aimed at minimizing loss or protecting wetland acreage, quality, and function credible data on the ecological condition of these wetlands need to be collected (U.S. EPA 2002a). In order to prioritize management, protection, and restoration activities an efficient and effective method is needed to identify high-quality wetlands, monitor restoration projects, and assess the effects of management activities.

It is not practical to measure every human impact to wetlands since these disturbances are numerous and complex. However, measuring the integrity of the biological community provides a means to evaluate the cumulative effect of all the stressors associated with human disturbance. The distribution of vegetation across the landscape serves as an indicator of various biotic and abiotic processes, including anthropogenic disturbance (Taft et al. 1997; U.S. EPA 2002b). Spatial and temporal human disturbances have a strong role in determining which plant species are able to survive and/or compete in a particular site. Thus, the composition of vegetation growing at a particular site integrates spatial and temporal impacts and can serve as an indicator of ecological integrity or condition.

The concept of species conservatism is the foundation of the Floristic Quality Assessment (FQA) approach to monitoring and assessing ecological communities. The core of the FQA method is the use of "coefficients of conservatism" (C value), which are assigned to all native species in a flora following the methods described by Swink and Wilhelm (1994) and Wilhelm and Masters (1996). C values range from 0 to 10 and represent an estimated probability that a plant is likely to occur in a landscape relatively unaltered from pre-European settlement conditions. In other words, the species has a wide ecological tolerance and may be found almost anywhere. A C value of 10 is assigned to species which are obligate to high-quality natural areas and can't tolerate any habitat degradation whereas a 0 is assigned to species with a wide tolerance to human disturbance. The proportion of conservative plants in a plant community provides a powerful and relatively easy assessment of the integrity of both biotic and abiotic processes and as such is indicative of the ecological integrity of a site (Wilhelm and Ladd 1988).

The Floristic Quality Assessment (FQA) is a method which uses plant composition or specifically the overall conservatism of species present at a site, as an indicator of ecological condition. The FQA method, originally developed for the Chicago region, uses the proportion of conservative plants in a plant community to assess the degree of "naturalness" of an area (Swink and Wilhelm 1979, 1994). The FQA has been developed and successfully tested in 11 States and Provinces. The FQA provides a means to evaluate floristic integrity of a wetland over time, or to compare quality of wetlands of a similar type (e.g. same ecological system (Comer et al. 2003)).

Once each species has been assigned a C value, a few different FQA indices can be used to assess the floristic integrity of an area. These indices can be calculated using only native species as well as including non-native plants resulting in variations of three core indices: Mean C, Floristic Quality Index, and the Adjusted Floristic Quality Index.

The FQA provides a unique approach to ecological monitoring and assessment which moves beyond simple measures of species richness and abundance and provides an estimate of the quality of native plants at a site (Herman et al. 1997). Under the assumption that plants effectively integrate spatial and temporal human impacts to ecological systems, the FQA indices provide a cost-effective means of assessing ecological condition. The FQA indices also provide consistent, quantitative measures of floristic integrity, can be used in any plant community, do not require extensive sampling equipment (only a competent botanist), and can be applied to existing data sets.

The FQA indices can be used for a variety of regulatory and non-regulatory assessment and monitoring applications. For example, FQA index scores can be used to conduct ambient monitoring of wetland condition within a targeted area, can be used to prioritize wetlands (or other ecosystems) for protection, restoration, or management efforts, and can be used to monitor the effectiveness of these actions. The FQA indices can also be used for specific wetland regulatory needs such permitting decisions associated with Section 404 of the Clean Water Act. Some U.S. Army Corps of Engineers districts currently use FQA indices for wetland assessment associated with permitting and mitigation activities tied to Section 404 of the Clean Water Act.

The objectives of this project were to assign coefficients of conservatism for each species in Colorado's flora and then test the ability of these coefficients in detecting degradation of floristic integrity resulting from human disturbance of Southern Rocky Mountain wetlands. To accomplish these objectives, the following tasks were completed:

- A panel of botanical and ecological experts with field-based knowledge of Colorado's flora was assembled (i.e. Colorado Floristic Quality Assessment Panel);
- The Colorado Floristic Quality Assessment Panel (Panel) convened for a one day workshop to review the process of assigning coefficients of conservatism;
- The Panel then individually assigned coefficients for those species which they were familiar with;
- The coefficient assignments were assembled for data analysis;
- Although coefficients were assigned to the entire Colorado flora, testing of the FQA indices only occurred for a few wetland types found in the Southern Rocky Mountain ecoregion (riparian shrublands, fens, extremely rich fens, slope wet meadows, and riverine wet meadows);
- Vegetation composition from wet meadows, fens, and riparian shrublands exposed to varying degrees of human disturbance were sampled;
- Coefficients of conservatism were plugged into multiple FQA indices and calculated for each vegetation sample plot;
- The FQA indices were correlated to a semi-quantitative human disturbance index to discern their effectiveness in detecting floristic change resulting from human impacts.

C values were assigned by a panel of Colorado's botanical experts. In order to provide some independent measure of the accuracy of these assignments a subset of species were also assigned C values based on their frequency of occurrence along the human disturbance gradient. An independent measure of C values was assigned to those native species which occurred in three or more of the sample plots (*sensu* Cohen et al. 2004 and Mushet et al. 2002). These C values were derived by averaging the Human Disturbance Index score from each plot that each of these species occurred in. This value was relativized to a value between 0-10 and used as an empirically defined C value.

A field study was conducted to determine if a subset of the assigned C values (Appendix D) were able to detect loss of floristic integrity in wetlands with increasing human perturbations. The study entailed sampling vegetation plots from wetlands exposed to varying degrees of human-induced disturbance; calculating FQA indices from each of these plots; scoring the severity, type and amount of human disturbance affecting each plot; and then correlating the FQA index scores to the gradient of human disturbance.

Including non-native species, approximately 84% of the Colorado Flora has been assigned a C value. The Panel had strong agreement regarding the C values assignments, as indicated by the fact that 90% of the species had a range of C value assignments within three values. In addition, 89% of the 237 species which were assigned data-derived C values were within three values of the corresponding Panel assigned C values. However, the Panel C value assignments were generally higher than those assigned from data. Nonetheless, these results suggest that the concept of conservatism was consistently applied, that the Panel shared similar opinions for the portion of the flora which was assigned C values, and that the subjectively assigned C values appear to be in agreement with data-derived C values.

The results of this study suggest that weighting the FQA indices by percent cover only showed significant improvement for FQA indices used in extremely rich fens and riverine wet meadows. Considering the limited improvement in index performance with the inclusion of percent cover, the fact that abundance can vary throughout a growing season (Wilhelm and Ladd; Swink and Wilhelm 1994), and that collecting percent cover data makes the FQA approach too intensive for rapid employment (Francis et al. 2000; Cohen et al. 2004; Bourdaghs et al. 2006) it does not appear the use of cover-weighted FQA indices is worth the extra effort to collect such data.

A single, universal index which could be used to detect ecological degradation in Colorado's plant community types was not extractable from this study's results. However, this study does show that coefficients of conservatism can be a useful and sensitive measure of human impacts to the natural quality of ecological systems. Including non-native species into the Mean C and FQI indices improved the correlation for all wetland types except slope wet meadows.

The Floristic Quality Indices (using both native and all species versions as well cover-weights), were strongest for extremely rich fens and slope wet meadow wetland types due to the stronger relationship species richness had in these systems to the HDI. However, the FQI indices did not show promise for the other wetland types. Mean C (natives) ( $\bar{C}_n$ ) is the most straightforward application of C values since the index does not use species richness, non-native species or cover in the calculation (Francis et al. 2000; Rooney and Rodgers 2002). In other words, the  $\bar{C}_n$  index does not contain hidden information and if used with other transparent, stand-alone indices such as species richness and percentage of non-native species provides a much clearer indication as to the specific impact human disturbance has on floristic integrity (Rooney and Rodgers 2002). In addition, Mean C has been shown to not be strongly affected by sample size, species richness, or seasonality of sampling (Francis et al. 2000; Rooney and Rodgers 2002; Matthews 2003). Although it was not considered a "strong" (per this project's screening criteria) index for all wetland types, it had a correlation coefficient at least  $> -0.44$  and an ability to distinguish reference from highly impacted sites for all wetland types except riverine wet meadows.

Although  $\bar{C}_n$  can be a useful independent metric of floristic quality, it is recommended that practitioners use additional FQA or other vegetation metrics along with Mean C to provide a more comprehensive and clear assessment (Taft et al. 1997, Jog et al. 2006). This could be accomplished using a multi-metric index such as a vegetation index of biotic integrity (e.g.

Rocchio 2007) or simply by reporting and making conclusions based on multiple, independent vegetation metrics.

Although the original FQI was intended to be used to distinguish sites of various quality (Swink and Wilhelm 1994; Taft et al. 1997) classification was found to be an important constraining variable for improving the detection capability of the FQA indices in this project. Other researchers have found similar reasons to limit comparisons to similar ecological types (Rooney and Rogers 2002; Matthews 2003; Andreas et al. 2004).

In conclusion, it is recommended that FQA indices be calculated and reported using both natives-only as well as all species in order to provide a more comprehensive and detailed assessment of floristic quality and that FQA scores only be compared between similar plant community types or similar ecological system types. It does not appear the weighting the indices by cover is worth the extra effort associated with collecting the necessary data.

This report presents the first iteration of the assignment of coefficients of conservatism to Colorado's flora. Additional field testing of the FQA indices is needed in a variety of ecological system types and geographic areas throughout Colorado. As additional field testing occurs, C value assignments may be refined to reflect increased understanding of the preferred ecological niche and tolerance to human stressors of Colorado's plant species. Practitioners of the FQA in Colorado are encouraged to submit their results and opinions regarding specific C value assignments to the Colorado Natural Heritage Program. Periodic review of C value assignments will occur in order to improve the FQA approach and its utility to managing Colorado's natural resources. In addition, the contribution of FQA monitoring results will build an empirical database from which the *a priori* C value assignments can be refined from empirical observations, thus creating an adaptive framework that allows continual input from new data sources and expert opinion to improve the efficacy of the C value assignments (Cohen et al. 2004).

In the near future, a FQA index calculator will be posted on CNHP's website (<http://www.cnhp.colostate.edu/reports.html>). This spreadsheet will allow practitioners to enter a species inventory list and will then automatically calculate the various FQA index scores.

## **ACKNOWLEDGEMENTS**

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## 1.0 INTRODUCTION

The primary objective of the Clean Water Act is to "maintain and restore the chemical, physical, and biological integrity of the Nation's waters," which includes wetlands (Federal Water Pollution Control Act, Public Law 92-500). Simply calculating the amount of wetland acreage lost or protected does not provide information as to the quality of wetlands destroyed, impacted, restored, or protected. In order to make informed management decisions aimed at minimizing loss or protecting wetland acreage, quality, and function credible data on the ecological condition of these wetlands need to be collected (U.S. EPA 2002a). In addition, in order to better prioritize management, protection, and restoration activities an efficient and effective method is needed to identify high-quality wetlands, monitor restoration projects, and assess the effects of management activities. It is not practical to measure every human impact to wetlands since these disturbances are numerous and complex. However, measuring the integrity of the biological community provides a means to evaluate the cumulative effect of all the stressors associated with human disturbance (U.S. EPA 2002a).

The distribution of vegetation across the landscape serves as an indicator of various biotic and abiotic processes, including anthropogenic disturbance (Taft et al. 1997; U.S. EPA 2002b). Spatial and temporal human disturbances have a strong role in determining which plant species are able to survive and/or compete in a particular site. Thus, the composition of vegetation growing at a particular site integrates spatial and temporal impacts and can serve as an indicator of ecological integrity or condition. In summary, the ecological basis for using vegetation as an indicator in wetlands is as follows (U.S. EPA 2002b):

- Vegetation is known to be a sensitive measure of human impacts including hydrological alterations, sedimentation, vegetation removal, physical disturbance, watershed development, mining, presence of invasive plants, and nutrient enrichment (Elmore and Kauffman 1984; Kauffman and Krueger 1984; Fulton et al. 1986; Kantrud et al. 1989; Cooper 1990; Wilcox 1995; Johnson 1996; Weixelman et al. 1997; Bedford et al. 1999; Galatowitsch et al. 2000; Adamus et al. 2001; Azous and Horner 2001; Cronk and Fennessy 2001; Flenniken et al. 2001; DeKeyser et al. 2003; Jones 2003; Kauffman et al. 2004; Zedler and Kercher 2004; Cooper et al. 2005; Reiss 2006);
- Vegetation structure and composition influence habitat suitability for other taxonomic groups such as waterbirds, migratory songbirds, macroinvertebrates, fish, large and small mammals, etc. (Kattleman and Embury 1996; Panzer and Schwarz 1998; Nelson *In Press*; Johnson and Anderson 2003; Miller et al. 2003; Baker et al. 2005);
- Strong correlations exist between vegetation and water chemistry (Bedford et al. 1999; Reiss 2006);
- Vegetation influences most wetland functions (Reed 1988; Wilcox 1995; Goslee et al. 1997; Tabacchi et al. 1998; Williams et al. 1998; Winward 2000; Cronk and Fennessy 2001; Lopez and Fennessy 2002;; Simon and Collision 2002; Baker et al. 2005; Jones 2005; Magee and Kentula 2005; Reiss 2006);
- Vegetation supports the food chain and is the primary vector of energy flow through an ecosystem (Baxter et al. 2005);
- Plants are found in all wetlands and are the most conspicuous biological feature of wetland ecosystems; and
- Ecological tolerances for many plant species are known and could be used to identify specific disturbances or stressors that may be responsible for a change in wetland biotic integrity.

Wetlands in Colorado have not only been lost from the landscape but have been and continue to be impacted or degraded by multiple human activities associated with water use, transportation, recreation, mineral extraction, urbanization, and land use management (Winters et al. 2004). In order to better prioritize management, protection, and restoration activities a relatively rapid method is needed to identify high-quality wetlands, monitor restoration projects, and assess the effects of management activities. The Floristic Quality Assessment (FQA) is a method which uses plant composition, specifically, the overall conservatism of species present at a site, as an indicator of ecological condition. The results provide numeric values which can be used to conduct ambient monitoring of the ecological condition of Colorado's plant communities or ecological systems, can be used to prioritize plant communities or ecological systems for protection, restoration, or management efforts, and can be used to monitor the effectiveness of these actions.

The objectives of this project were to assign coefficients of conservatism for each species in Colorado's flora and then test the ability of these coefficients to detect degradation of floristic integrity resulting from human disturbance of Southern Rocky Mountain wetlands. To accomplish these objectives, the following tasks were completed:

- A panel of botanical and ecological experts with field-based knowledge of Colorado's flora was assembled (i.e. Colorado Floristic Quality Assessment Panel);
- The Colorado Floristic Quality Assessment Panel (Panel) convened for a one day workshop to review the process of assigning coefficients of conservatism;
- The Panel members then individually assigned coefficients for those species which they were familiar;
- The coefficient assignments were assembled for data analysis;
- Vegetation composition from select wetland types (i.e. wet meadows, fens, and riparian shrublands) exposed to varying degrees of human disturbance were sampled;
- Coefficients of conservatism were used to calculate multiple FQA indices for each vegetation sample plot;
- The FQA indices were correlated to a semi-quantitative human disturbance index to discern their effectiveness in detecting floristic change resulting from human impacts.

### **1.1 Plant Conservatism**

Plant species conservatism is essentially the degree to which a species displays fidelity to a specific habitat or set of environmental conditions (Wilhelm and Ladd 1988). Conservative species are those that have evolved with a specific set of biotic and abiotic factors, interactions, and natural disturbances (Wilhelm and Ladd 1988; Wilhelm and Masters 1996). Although these factors are not static over time, they change in a gradual manner that along with ecosystem complexity have allowed conservative species to adapt to the dynamic nature of their habitat (Wilhelm and Ladd 1988). Thus, conservative species are not simply restricted to relatively stable habitats such as fens but can also occur in periodically disturbed habitats such as riparian systems. Conservatism is not the same as "rarity" which it is often confused with. Rare species may or may not be conservative. Nonconservative or generalist species are those which have a broader ecological niche and thus don't show fidelity to a specific set of environmental parameters.

Since European settlement began, human impacts have caused dramatic shifts in many ecological processes including natural disturbance regimes. Due to these impacts many ecological processes and disturbance regimes now function outside their natural range of intensity, frequency, or

duration (Wilhelm and Masters 1996). Conservative plants are not able to adapt to these human-induced alterations and thus are typically the first plants to disappear from a habitat impacted by human activities (Wilhelm and Masters 1996). The severity of these impacts appears to be correlated to the proportion of conservative plants which are found within an area (Wilhelm and Masters 1996; Wilhelm and Ladd 1988; Lopez and Fennessy 2002; DeKeyser et al. 2003). Thus, nonconservative or generalist species tend to dominate habitats which have had been exposed to prolonged and/or severe human impacts, resulting in a loss of ecological complexity (Wilhelm and Masters 1996). These simplified, weedy habitats are not able to persist as self-sustaining ecological systems and can result in changes in nutrient, soil, and hydrological regimes (Wilhelm and Masters 1996; Lopez and Fennessy 2002). In summary, a high-quality natural ecological system is comprised of both conservative and non-conservative plants whereas highly disturbed, low-quality natural areas or sites of anthropogenic origin have few, if any, surviving conservative plants. Thus, the proportion of conservative plants in a plant community provides a powerful and relatively easy assessment of the integrity of both biotic and abiotic processes and as such is indicative of the ecological integrity of a site (Wilhelm and Ladd 1988).

The concept of species conservatism is the foundation of the Floristic Quality Assessment (FQA) approach to monitoring and assessing ecological communities. The core of the FQA method is the use of "coefficients of conservatisms" (C value), which are assigned to all native species in a flora following the methods described by Swink and Wilhelm (1994) and Wilhelm and Masters (1996). C values range from 0 to 10 and represent an estimated probability that a plant is likely to occur in a landscape relatively unaltered from pre-European settlement conditions. Nonnative plants were not part of the pre-settlement flora, so no C values are assigned to them. However, if nonnative species are used in the calculation of FQA indices, they are given a default C value of 0. A C value of 0 is assigned to native plants that have demonstrated little fidelity to any remnant natural community or area<sup>15</sup>. In other words, the species has a wide ecological tolerance and may be found almost anywhere. A C value of 10 is assigned to species which are obligate to high-quality natural areas and can't tolerate any habitat degradation. The C values in the 4-6 ranges are assigned to species which show weak affinity to natural areas but provide no indication of the quality of those areas. The conceptual difference between a value of 0 and a 1, or between 9 and 10, is slight, while the difference between a value of 0 and a value of 3 is more distinct.

## **1.2 Floristic Quality Assessment**

The FQA method, originally developed for the Chicago region, uses the proportion of conservative plants in a plant community to assess the degree of "naturalness" of an area (Swink and Wilhelm 1979, 1994). The FQA has been developed and successfully tested in Illinois (Swink and Wilhelm 1979), Missouri (Ladd 1993), Ohio (Andreas et al. 2004), southern Ontario (Oldham et al. 1995), Michigan (Herman et al. 1996), Indiana (Rothrock 2004), Florida (Cohen et al. 2004), Virginia (Nichols et al. 2006), North Dakota (Northern Great Plains Floristic Quality Assessment Panel, 2001), Kansas (Craig Freeman, personal communication), Montana (Jones 2005), and Wisconsin (Bernthal 2003). The FQA provides a means to evaluate floristic integrity of a wetland over time, or to compare quality of wetlands of a similar type (e.g. same ecological system (Comer et al. 2003). In addition, because C values are assigned to all species in a flora, the FQA can be used to assess the floristic integrity of any plant community, upland or wetland.

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<sup>15</sup> Natural areas or communities are areas in which the existing vegetation communities approximate the condition that prevailed prior to European settlement (Wilhelm and Ladd 1988). Non-natural areas are those places where human activity has created an environment or altered existing environments so that the area no longer represents pre-settlement conditions.

As noted above, the first step in developing the FQA method is to assign each species in a flora a C value ranging from 0-10. The C values essentially represent the collective opinion of local botanical experts regarding a species fidelity to high-quality natural areas, or those areas in which existing plant communities and ecological conditions represent those prior to European settlement (Wilhelm and Ladd 1988; Swink and Wilhelm 1994; Taft et al. 1997). Wilhelm and Masters (1996) provide an example of assigning a species a C value: If someone were to present a plant specimen and ask how confident one would be to say it was taken from high-quality natural area, the response would 10 if one was extremely confident, 5 if one was confident that it came from a natural area but unsure of whether it was degraded, 0 if one had no confidence that it came from a natural community, and, of course, the continuum between these values are used to fine-tune the C value assignments. Plants often have varying C values in different geographic regions due to physiological and ecological variations within the range of each species. Thus, C values must be assigned on a regional basis.

Once each species has been assigned a C value, a few different FQA indices can be used to assess the floristic integrity of an area. These indices can be calculated using only native species as well as including non-native plants. The most straightforward application is to calculate the average C value of all the native species which occur at a site (Rooney and Rodgers 2002; Taft et al. 1997). The average C value is calculated as:

$$\text{Mean } C = \sum C_i \div N$$

where  $C$  =  $C$  value,  $i$  = an individual native species, and  $N$  = native species richness

Mean C ( $\bar{C}$ ) has been found to be correlated with increasing human disturbance (Andreas et al. 2004; Wilhelm and Masters 1996; Taft et al. 1997; Lopez and Fennessy 2002; Cohen et al. 2004; Bourdaghs et al. 2006; Miller and Wardrop 2006; Nichols et al. 2006) (Figure 1).

If the objective is to prioritize sites for conservation, then the  $\bar{C}$  value alone may not be the most useful index since it doesn't detect other differences between the sites (Wilhelm and Master 1996). For example, larger areas will typically support more species than smaller areas. Since there may be cases when a large and a small area share the same  $\bar{C}$  value, accounting for species richness by multiplying it with the  $\bar{C}$  value adds a discriminating factor to the floristic quality assessment (Taft et al. 1997). This equation is the Floristic Quality Index (FQI). Area is not the only factor affecting species richness, as habitat heterogeneity and the presence of anthropogenic patches can have an impact on richness, regardless of size (Wilhelm and Masters 1996). Thus, to limit the influence of area alone on the index, the square root of species richness is used and the FQI is calculated as (Swink and Wilhelm 1994; Taft et al. 1997):

$$\text{FQI} = \bar{C} * \sqrt{N}$$

where  $\bar{C}$  = average  $C$  values and  $N$  = native species richness

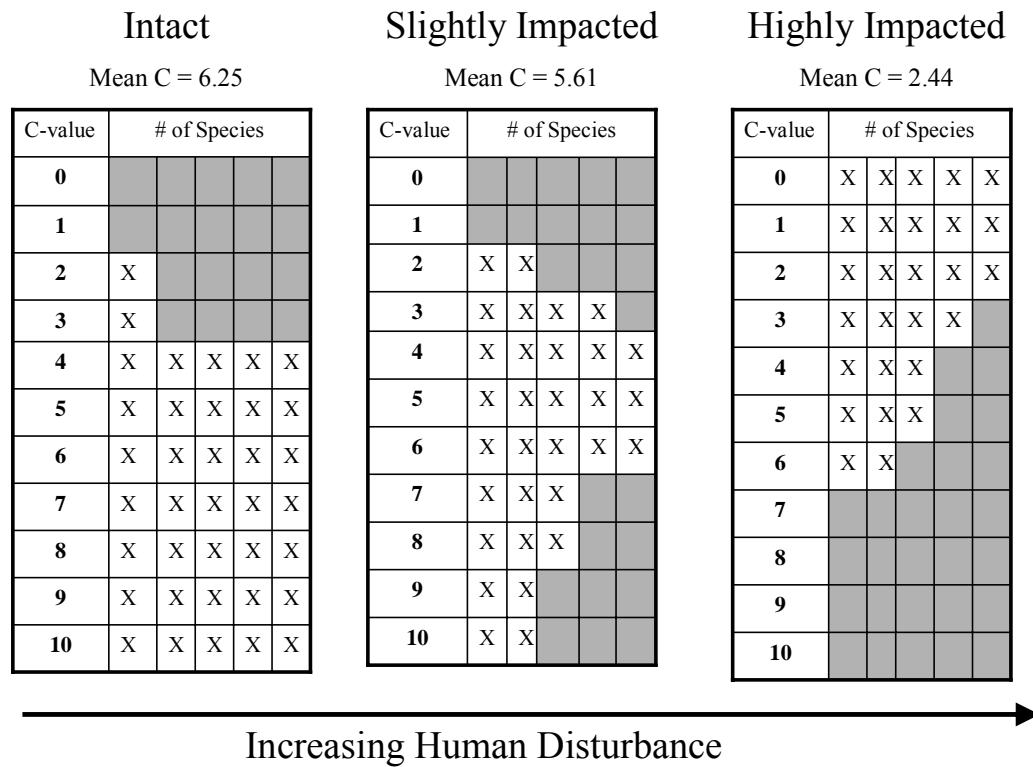


Figure 1. Example of Relationship of Mean C to Human Disturbance

Thus, a higher FQI suggests a site with a higher conservation priority (e.g. higher  $\bar{C}$ , species richness, or combination of the two). However, many researchers have found that the FQI is overwhelming correlated to species richness and thus may obscure information related to aggregate conservatism (Matthews 2003, Francis et al. 2000; Rooney and Rodgers 2002). Because the FQI is often employed with other vegetation metrics, Rooney and Rodgers (2002) suggest that  $\bar{C}$ , which they call the Modified Floristic Quality Index, is most useful due to its simple calculation, independence from species richness, and the fact that it does not confound floristic quality with species richness. Francis et al. (2000) suggest computing and reporting each index separately and Berntson (2003) notes that this allows the user to separate factors which may be affecting species richness but not aggregate conservatism or vice versa.

A metric developed by researchers in Pennsylvania, the Adjusted Floristic Quality Assessment Index (Adjusted FQI), attempts to further eliminate the sensitivity of the FQI to species richness as well as incorporating the impact of non-native species by calculating an Adjusted FQI as a percentage of the maximum attainable FQI score for a site by assuming that maximum attainable  $\bar{C}$  is 10 and all species are native (Miller and Wardrop 2006). The following equation is used to calculate the Adjusted FQI:

$$\textbf{Adjusted FQI} = \left( \frac{\bar{C}}{10} * \frac{\sqrt{N}}{\sqrt{S}} \right) * 100$$

where  $\bar{C}$  = average C values; N = native species richness; and S = native + nonnative species richness

Miller and Wardrop (2006) found that the Adjusted FQI had a stronger correlation with  $\bar{C}$  than FQI. The Adjusted FQI was correlated with non-native species richness while the FQI was correlated with native species richness. The use of non-native species in the equation decreases the effect of the species richness modifier. In other words, species poor sites with few, if any, non-native species will have a higher score than species rich sites with a substantial amount of non-native species present (Miller and Wardrop 2006).

Using parametric or non-parametric statistics, it is possible to compare any of these index scores among different sites or among different years at a particular site to determine whether significant differences exist (Taft et al. 1997).

### **1.3 Use and Application of the Floristic Quality Assessment**

The FQA indices recognize that all plant species, not just the dominant or rare species, contribute useful information about a site's quality due to each species' ability to adapt to a unique set of biotic and abiotic conditions (Herman et al. 1997). Thus, the FQA provides a unique approach to ecological monitoring and assessment which move beyond simple measures of species richness and abundance and provide an estimate of the quality of native plants at a site (Herman et al. 1997). Under the assumption that plants effectively integrate spatial and temporal human impacts to ecological systems, the FQA indices provide a cost-effective means of assessing ecological condition. The FQA indices also provide consistent, quantitative measures of floristic integrity, can be used in any plant community, do not require extensive sampling equipment (only a competent botanist), and can be applied to existing data sets.

The FQA indices can be used for a variety of regulatory and non-regulatory assessment and monitoring applications. For example, FQA index scores can be used to conduct ambient monitoring of wetland condition within a targeted area, can be used to prioritize wetlands (or other ecosystems) for protection, restoration, or management efforts, and can be used to monitor the effectiveness of these actions.

#### *1.3.1 Identification of Conservation Areas*

The Floristic Quality Assessment (Swink and Wilhelm 1994), originally called the Natural Area Rating Index (Wilhelm 1977; Swink and Wilhelm 1979), was developed to assist in the identification of natural areas worthy of conservation actions (Swink and Wilhelm 1979, 1994; Taft et. al. 1997). To determine overall floristic quality of a targeted area, a site inventory of all plant species growing in the area of interest is documented either using a qualitative approach such as thoroughly walking the area of interest and taking a census of all vascular plants or by establishing vegetation plots or transects for a more quantitative and repeatable analysis. Francis et al. (2000) showed that FQA was useful in determining the condition of natural areas and many organizations ranging from the Missouri Department of Conservation (Nelson 2005), county governments (Dupage County Stormwater Management Committee 1992; Wilhelm 1977), and The Nature Conservancy (Ladd 1993) use FQA indices to identify and prioritize high quality natural areas to include in their Natural Areas network.

The Colorado Natural Heritage Program (CNHP) will incorporate FQA indices into Ecological Integrity Assessments of specific plant communities and ecological systems to improve our methodology for prioritizing ecological conservation targets. CNHP also intends to use the FQA scores to calibrate other wetland assessment methods currently in development by CNHP. These include Level 1 (remote-sensing based) and Level 2 (rapid, field assessments) methods which, when calibrated with a quantitative measure such as the FQA index scores, will provide alternative methods to assess wetland condition depending on the project objectives or the time, money, and level of effort available to the user.

### *1.3.2 Monitoring Response of Floristic Quality to Management, Restoration, or Protection Activities*

The FQA index scores can be used for numerous monitoring applications whether it is for long-term or ambient monitoring of ecological condition or to set and determine success in meeting performance standards of wetland restoration efforts.

Mushet (2002) demonstrated usefulness of FQA for monitoring wetland restoration projects. FQA index scores could also be used in ambient monitoring programs which seek to estimate the overall ecological condition of an ecological system within a large landscape. For example, the National Park Service has included FQA indices (within vegetation index of biotic integrity (VIBI) models) as part of their wetland vital signs monitoring protocol for Cuyahoga Valley National Park (Fraser 2005). The coefficients of conservatism for the Colorado flora will also be used in a similar manner within the National Park Service Rocky Mountain Inventory and Monitoring Network's wetland vital signs program (Billy Schweiger, personal communication). The Colorado Natural Heritage Program is seeking funding to implement basinwide ambient monitoring and assessment of wetland condition throughout the State of Colorado. The FQA indices will be utilized as one indicator for this work.

Some of the more common questions asked by managers regarding floristic quality are (Wilhelm and Masters 1996): (1) What is the overall floristic quality of a site/plant community; (2) How does floristic quality spatially vary throughout a site; and (3) How does management, restoration, or protection efforts affect floristic quality  $\bar{C}$  of a site? Various monitoring approaches can be used to answer such questions. As noted above, to determine overall floristic quality, a site inventory of all plant species growing in the area of interest is documented either using a qualitative census approach or by establishing vegetation plots or transects for a more quantitative analysis. In order to determine spatial variability of floristic quality across a site, numerous quadrats can be sampled along sampling transects randomly distributed throughout a site. FQA index scores can then be calculated for both the entire site (species data compiled from all quadrats) as well as individual quadrats (Wilhelm and Masters 1996). FQA index scores from individual quadrats can identify and focus management efforts toward more sensitive areas within a site. Both quadrat and overall floristic quality data can be used to measure the extent to which management is having a positive or negative effect on floristic quality. For example, Mean C (natives) can be calculated based on two averages: (1) overall Mean C across all quadrats ( $\bar{C}_t$ ) or (2) the individual quadrat  $\bar{C}$  values averaged across the transect ( $\bar{C}_q$ ). The ratio of these two values provides valuable information such as if  $\bar{C}_q$  is less than  $\bar{C}_t$  suggests that conservative species are not well represented in any given location within the area of interest whereas the reverse would suggest that non-conservative species, while present, are not abundant in system (Wilhelm and Masters 1996).

### *1.3.3 Compensatory Wetland Mitigation and State Water Quality Standards*

The FQA indices can also be used for specific wetland regulatory needs such permitting decisions associated with Section 404 of the Clean Water Act. Some U.S. Army Corps of Engineers districts currently use FQA indices for wetland assessment associated with permitting and mitigation activities tied to Section 404 including the Omaha District (USACE 2003), Chicago District (USACE 2005), and Detroit District (USACE 2006). The FQI is used in Ohio within a vegetation index of biotic integrity as apart of a statewide wetland regulatory program (Lopez and Fennessy 2002; Mack et al. 2004).

Wilhelm (1992) notes that very few *de novo* restoration sites are able to achieve FQA index scores (i.e. FQI and Mean C) comparable to naturally diverse wetlands and thus suggests that minimum FQA index scores should be used to determine permit decisions and wetland mitigation performance standards. For example, monitoring data from wetland restoration sites in the Chicago region suggest that wetlands with low floristic quality (in Chicago this was generally defined as  $FQA \leq 35$  and Mean C  $\leq 3.5$ ) can be compensated for via mitigation efforts whereas wetlands with high floristic quality may be irreplaceable (Wilhelm 1992). These data have been used by some regional agencies to set performance standards and mitigation ratio. For example, DuPage County, Illinois uses a minimum  $\bar{C}$  value of 3.5 to identify critical wetlands and requires a higher mitigation ratio for these sites (DuPage County Stormwater Management Committee 1992). The Illinois Wetland Policy Act of 1989 (20ILCS 830, 17 Ill. Adm. Code 1090) requires a 5.5:1 replacement ratio for mitigation of wetlands with a FQI index score  $\geq 20$  or Mean C  $\geq 4.0$ . In Michigan, FQA index scores were used to establish mitigation performance criteria associated with endangered species impacts at the Detroit Metropolitan Wayne County Airport (Herman et al. 1997). Rooney and Rodgers (2002) note that such thresholds need to be regional defined and that baseline values should be benchmarked according to specific ecological community types.

FQA index scores could also help define regional wetland reference conditions, delineating designated use categories for wetlands, and assigning biocriteria to each of these uses. Once such a framework is established, periodic monitoring of wetland FQA index scores is then possible and would allow an assessment of the status and trends of wetland condition, an activity required of each State in Section 305 (b) of the Clean Water Act. It would also allow the identification of impaired wetlands meeting the definition of Waters of the U.S., as required by Section 303(d) of the Clean Water Act.

## 2.0 STUDY AREAS

The objective of this project is to develop and test FQA indices which can be applied to any plant community in Colorado. Although C values were assigned to the entire Colorado flora, field testing of the FQA indices only occurred for a five wetland types found in the Southern Rocky Mountain ecoregion (e.g. riparian shrublands, fens, extremely rich fens, slope wet meadows, and riverine wet meadows) and focused on three watersheds: Upper Blue River, South Platte River Headwaters and Colorado Headwater watersheds (Figure 1). General descriptions of the study areas for this report are provided below.

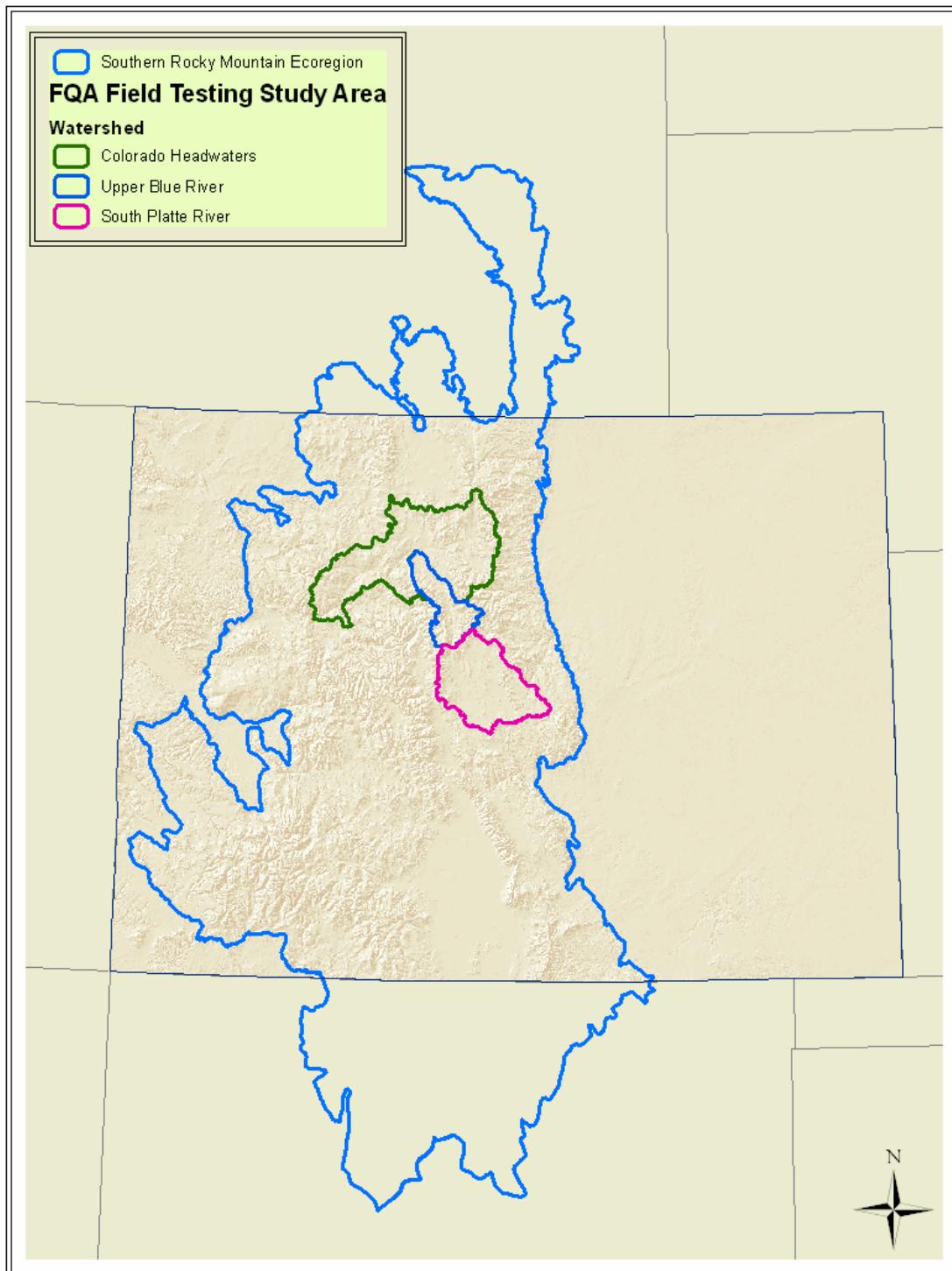
### 2.1 Upper Blue River Watershed

The Upper Blue River watershed generally corresponds with the political boundaries of Summit County which straddles the west flank of the Continental Divide and is approximately 176,922 hectares (437,183 acres). Elevations range from 4,280 m (14,265 feet) on Quandary Peak to 2,274 m (7,580 feet) where the Blue River leaves Summit County. More than 85% of the county is above 9,000 feet. The watershed is bordered by the Gore Range on the northwest, the Williams Fork Mountains on the northeast, and the Tenmile Range on the west. Hoosier Pass and Loveland Pass lie on the continental divide which forms the watershed boundary to the south and east. Major tributaries include the Swan River, Snake River, and Tenmile Creek. Three major reservoirs (Blue Lakes, Dillon Lake, and Green Mountain) influence the Blue River and its associated wetlands.

The climate is generally characterized by long, cold, moist winters, and short, cool, dry summers. The Town of Dillon, where climate data are recorded, receives approximately 41.58 cm (16.37 in.) of precipitation each year. Average minimum and maximum temperatures are -7.9° C (17.7° F) and 11° C (51.8° F) respectively. The average total snow fall is 334.8 cm (131.8 in.) (Western Regional Climate Center 2006).

The geology of Summit County is complex, as evidenced by the Geological Map of Colorado (Tweto 1979). The Williams Fork Mountains, Gore Range and the Tenmile Range consist of Precambrian granitic rock with several faults (Tweto 1979). The lower Blue River Valley at the base of the Williams Fork Mountains consists of Pierre Shale. There are outcrops of Dakota sandstone near the Dillon Dam. High elevation outcrops of Leadville limestone are found in the southern portion of the county. The Blue River Valley has glacial origins as evidenced by the numerous boulder-strewn moraines (Chronic 1980).

Typical Southern Rocky Mountain flora is prevalent in Summit County. Elevations between approximately 2,274 m (7,580 ft) to 2,400 m (8,000 ft) are dominated by *Amelanchier alnifolia* (service berry), *Artemisia tridentata* ssp. *vaseyana* (mountain sagebrush) and *Symphoricarpos rotundifolius* (snowberry). At these elevations, wetlands along riparian areas are dominated by *Salix* spp. (willows), *Populus angustifolia* (narrowleaf cottonwood), *Picea pungens* (Colorado blue spruce) and *Alnus incana* (thinleaf alder). Other wetlands within this elevation range include seeps, springs, wet meadows, and fens which are supported by groundwater discharge. These wetland types are mostly dominated by various graminoid species, mostly of the Cyperaceae (sedge) family. Above 2,400 m (8,000 ft), *Populus tremuloides* (quaking aspen), *Pinus contorta* (lodgepole pine), *Pseudotsuga menziesii* (Douglas-fir), and *Picea engelmannii* (Engelmann



**Figure 2.** FQA Field Testing Study Area

spruce) dominate uplands and can occasionally be found in confined riparian areas. The most conspicuous wetland types at this elevation are riparian shrublands or willow carrs which are dominated by various species of willow (*Salix planifolia*, *S. wolfii*, *S. brachycarpa*, etc.) and sedges (*Carex utriculata*, *C. aquatilis*, etc.). Groundwater supported wetlands are common at these elevations as well. In the elevational zone between 3,000 m to 4,267 m (10,000 to 14,000 ft) *Picea engelmannii* (Engelmann spruce), *Abies lasiocarpa* (subalpine fir), *Salix brachycarpa* (short-fruit willow), and *Salix planifolia* (planeleaf willow) occur along riparian zones. Various *Salix* spp. (willow), *Carex* spp. (sedges), and herbaceous species are also found in groundwater discharge sites and snow melt areas.

Historical hard rock and placer mining and timbering operations have dramatically affected lands throughout the county. Many of the larger rivers have large tailings piled throughout the floodplain and some areas remain effected by acid mine drainage. Currently, ski areas and associated residential and commercial developments are widespread in the county. Additionally, gravel mining, grazing, and agricultural activities are found in isolated pockets. Three large reservoirs, Blue Lakes, Dillon and Green Mountain, are also significant components of the human influences in the county. These various land uses introduce problems associated with habitat fragmentation, hydrological alterations, topographic alterations, non-native species invasions, and alteration of natural fire regimes.

## **2.2 South Platte River Headwaters Watershed**

The South Platte River Headwaters watershed encompasses much of Park County and is approximately 415,244 hectares (1,026,097 acres). Elevations range from over 4,267 meters (14,000 feet) to approximately 2,225 meters (7,300 feet). Much of the watershed occurs in a prominent physiographic feature in Park County called South Park, a grass-dominated basin, 80 km (50 miles) long and 56 km (35 miles) wide. South Park is the largest intermountain basin in Colorado, and is surrounded on all sides by mountains. It is bordered to the west by the Buffalo Peaks and the Mosquito Range, to the north by Mt. Evans and Mt. Bierstadt, to the east by the Kenosha Mountains, Tarryall Mountains, and Puma Hills, and to the south by the Black and Thirtynine Mile mountains.

The climate is characterized by long, cold, moist winters, and short, cool, dry summers. Climatic data from the Town of Fairplay indicate that South Park receives approximately 33 cm (13 inches) of precipitation each year. Average minimum and maximum temperatures in Fairplay are -12° and 20° C (9° and 69° F), respectively. The average total snowfall in Fairplay is 213 cm (84 inches) (Western Regional Climate Center 2006). Climatic for the higher elevations in this area but precipitation and snowfall would be much higher and average temperatures lower for the higher elevations. In sub-alpine basins, streams flow over glacial till from the Pinedale and Bull lake glaciations. Elsewhere, streams and tributaries to the South Platte flow over Quaternary alluvial deposits of varying depth (except where bedrock is exposed in narrow canyon reaches). The upper glaciated reaches are in wide U-shaped valleys. Below elevations of glacial terminal moraines, river canyons become narrow, and the rivers are steeper, forming narrow, cool canyons with limited floodplain development. Hydrology of the South Platte River is primarily driven by spring and early summer snow-melt runoff from the mountains.

The vegetation on the valley floor of South Park is generally short and sparse as a result of the dry, windy climate, historic and current grazing, fires, and, to a much lesser extent, prairie dog activity. The wetlands of South Park are unique.

The geologic and hydrologic setting found in South Park combines to create wetlands known as “extremely rich fens,” so named because of their high concentrations of minerals. These fens provide habitat for a suite of rare plant species and plant communities. Approximately 20% of the fen communities in the study area have been drained or mined for peat (Sanderson and March 1995).

Other wetland types include playa lakes, springs, wet meadows, and riparian wetlands. At higher elevations the vegetation is dominated by willows (*Salix* spp.), spruce-fir (*Picea engelmannii*-*Abies lasiocarpa*), ponderosa pine (*Pinus ponderosa*), lodgepole pine (*Pinus contorta* ssp. *latifolia*), bristlecone pine (*Pinus aristata*), quaking aspen (*Populus tremuloides*) and alpine communities.

There are a high percentage of private lands in the watershed, particularly in South Park and on the immediately adjacent slopes. Currently, residential, agricultural (mostly livestock grazing) and commercial developments are widespread. Most of the streams in South Park are used to support some level of irrigation for pasture and/or hay operations. There are three large reservoirs that provide water for Front Range cities. Historical mining and timbering operations have dramatically affected some lands throughout the higher elevations of the county.

### **2.3 Colorado Headwaters Watershed**

This watershed encompasses approximately 751,180 hectares (1,856,199 acres) of north central Colorado. The elevation ranges for this portion are from 2,225 meters (7,300 feet) where the Colorado River cuts through the Gore Range at Gore Canyon, to 4,066 meters (13,553 feet) at the summit of Pettingell Peak in the Front Range. The principal mountain ranges are: Rabbit Ears Range, Front Range, and Gore Range. The Continental Divide defines the northern and eastern county lines while the Gore Range delineates the southwest boundary. The watershed also encompasses Middle Park intermountain basin. Major tributaries of the Colorado River include the Fraser River, Williams Fork River, Willow Creek, Blue River, Troublesome Creek, and Muddy Creek.

The climate is generally characterized by long, cold, and moist winters, and short, cool, dry summers. Climatic data from the Grand Lake area indicate that this area receives approximately 51 cm (20 inches) of precipitation each year. Average minimum and maximum temperatures are, respectively, -6.5 ° and 11.5 ° C (20.2 ° and 52.8 ° F). The average total snowfall in Fairplay is 368 cm (145 inches) (Western Regional Climate Center 2006).

Watershed geology consists of crystalline Precambrian rocks underneath thousands of feet of sedimentary rocks including the Jurassic Morrison Formation, Dakota Sandstone, Benton Shale, Niobrara Formation, and Pierre Shale (Tweto 1979). The diversity of climate, geology, elevation, and soils within the Colorado Headwaters watershed leads to a wide range of ecological systems. At the highest elevations, alpine tundra dominated by cushion plants grades into subalpine forests dominated by Engelmann spruce and subalpine fir, which in turn grade into upper montane forests of lodgepole or limber pine (*Pinus flexilis*). Lower montane forests are strongly dominated by lodgepole pine, especially on dry slopes, although Douglas-fir can intermingle on moister, often north-facing slopes with aspen. The basins between mountain ranges are characterized by mountain big sagebrush and Wyoming big sagebrush (*A. tridentata* ssp. *wyomingensis*) shrublands, which dominate the clay soils within Middle Park. Scattered throughout the watershed are riparian forest and shrublands and other wetland types such as fens, kettle ponds, wet meadows, and freshwater marshes.

Historically, the basin's economy was based on agriculture and livestock activities. Presently, the economy is largely based on recreation and tourism. Approximately 28% of Grand County is privately owned and the majority of private lands are located within Middle Park. The towns of Granby, Fraser, and Winter Park are all located only one hour from Denver and offer easily accessible fishing and hiking in the summer, and snowmobiling, tubing, and skiing in the winter.

## 3.0 METHODS

### 3.1 Assignment of Coefficient of Conservatism Values

Coefficients of conservatism values (C values) were assigned by a Panel of Colorado's botanical experts. In order to provide some independent measure of the accuracy of these assignments a subset of species were also assigned C values based on their frequency of occurrence along the human disturbance gradient. Both approaches are described below.

#### 3.1.1. Panel Assigned Coefficients of Conservatism

All plant species known to occur in Colorado were considered for assignment of a C value ranging from 0-10. The C values were assigned using expert opinion of local and regional botanical experts. Although these values are assigned subjectively, they are *applied* consistently and objectively since value judgments have already been determined. Often, expert opinion is sought using a panel consensus method (Swink and Wilhelm 1994; Andreas et al. 2004; Mushet et al. 2002). In other words, botanical experts convene and collectively decide the C value for each species in the flora. This method has the advantage of ensuring consensus of the C value assignments through group discussion but is disadvantageous because it potentially allows dominant personalities to override other opinions. Other researchers have sought expert opinion by requesting independent input from each panel member (Cohen et al. 2004; Craig Freeman personal communication; Bernthal 2003). This often is a more practical arrangement for panel members with busy schedules since they can provide their input as time allows and it also provides an opportunity for quantification of expert opinion. The disadvantage is that it does not allow group discussion and removes consensus results.

The Colorado FQA was developed using the independent input method. The Colorado Natural Heritage Program (CNHP) convened a panel of regional botanical experts to assign C values to each species in Colorado's flora. Initially, botanical experts with the CNHP, Kansas Natural Heritage Inventory, Wyoming Natural Diversity Database, Utah Conservation Data Center, NatureServe, U.S. Forest Service, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Natural Resource Conservation Service, U.S. National Park Service, University of Colorado, University of Northern Colorado, University of Wyoming, San Juan College, and private consultants were invited to participate on the Colorado Floristic Quality Assessment Panel (Panel). The few botanists who know the entire Colorado flora (which has over 3,000 species) were unable to participate on the Panel, thus the initial list of potential Panel members was chosen based on geographic and taxonomic expertise to ensure that the entire flora could be assigned a C value. Initially, 27 people agreed to participate, however to date only 13 Panel members have submitted their suggested C values (Table 1). Gerould Wilhelm, the original author of the FQA method, was contracted to moderate an initial workshop where the Panel reviewed and discussed the concept of "conservatism". The Panel then proceeded to collectively assign C values to approx. 100 species to help calibrate the group's understanding of this concept.

Following the meeting, each Panel member was provided with a Microsoft Excel spreadsheet containing all 3,191 species in the Colorado flora. Species nomenclature follows USDA PLANTS Database (<http://plants.usda.gov/>) as of January 2005. Since many botanists in Colorado use Dr. William Weber's Colorado East/West Slope floras as a field key and nomenclature reference (Weber and Wittmann 2001a, 2001b), these names were cross-referenced to the PLANTS names in the FQA database (Appendix E). Life history traits and wetland

indicator status were downloaded from PLANTS. The USFWS Region 5 and 8 Wetland Indicator Status lists were also used to ensure that PLANTS information was correct (Reed 1988).

Panel members were then asked to provide their individual estimates of C values for those species they were familiar with. The Panel was provided with guidelines to help them assign C values.

The C values can be summarized as follows:

- ❖ 0-3 Species very prevalent in non-natural areas. They have a wide ecological tolerance and do not show any fidelity to high-quality natural areas.
- ❖ 4-6 Species that show weak affinity to natural areas but provide no indication of quality. Many matrix or dominant species fall into this category.
- ❖ 7-9 Species that are obligate to natural areas but can sustain some habitat degradation
- ❖ 10 Species which are obligate to high-quality natural areas and can not tolerate any habitat degradation.

Once Panel members returned their C value suggestions, the values were entered into a Microsoft Excel spreadsheet and the average C value was calculated. Many species only had one suggested C value. Species with a range greater than three C values, were revisited by the Panel. However, even following this second evaluation of C value assignments, a wide-range of C value suggestions remained for some species.

Table 1. Colorado Floristic Quality Assessment Panel Members

Colorado Floristic Quality Assessment Panel Gerould Wilhelm, Conservation Design Forum, Inc. (moderator)			
Name	Organization	Name	Organization
Dave Anderson	<i>Colorado Natural Heritage Program</i>	Brad Johnson	<i>Colorado State University</i>
David Buckner	<i>ESCO Associates, Inc.</i>	Steve Kettler	<i>U.S. Fish and Wildlife Service</i>
Kathy Carsey	<i>U.S. Forest Service</i>	Gwen Kittel	<i>NatureServe</i>
Dina Clark	<i>Denver Botanic Gardens</i>	Peggy Lyon	<i>Colorado Natural Heritage Program</i>
Janet Coles	<i>U.S. National Park Service</i>	Joe Rocchio	<i>Colorado Natural Heritage Program</i>
Denise Culver	<i>Colorado Natural Heritage Program</i>	Harvey Srock	<i>U.S. Natural Resources Conservation Service</i>
Craig Freeman	<i>Kansas Natural Heritage Inventory</i>		

### 3.2.1 Data Derived Coefficients of Conservatism

An independent measure of C values was assigned to those native species that occurred in three or more of the sample plots (*sensu* Cohen et al. 2004 and Mushet et al. 2002). These C values were derived by averaging the Human Disturbance Index score (see Section 3.2.5) from each plot in which these species occurred. This value was relativized to a value between 0-10 and used as an empirically defined C value.

### 3.2 Field Testing of FQA Indices

A field study was conducted to determine if a subset of the assigned C values (Appendix D) were able to detect loss of floristic integrity in wetlands with increasing human perturbations. The study entailed sampling vegetation plots from wetlands exposed to varying degrees of human-induced disturbance; calculating FQA indices from each of these plots; scoring the severity, type and amount of human disturbance affecting each plot; and then correlating the FQA index scores to the gradient of human disturbance.

Sampling focused on the Upper Blue and South Platte River Headwaters watersheds while a few reference quality sample sites were chosen from the Colorado Headwaters watershed. Human disturbance was scored at each one of the vegetation plots according to the degree of human-induced alterations to the wetland and surrounding buffer's ecological processes. Multiple FQA indices were calculated for each site and compared to the human disturbance index to determine whether they were correlated. For each plot, three main indices were tested: (1) Mean C; (2) Floristic Quality Assessment Index; and (3) Adjusted Floristic Quality Assessment Index.

Variations on these indices (i.e. using native and total species richness; weighting each with mean cover) resulted in the ten FQA indices that were tested (Table 2). The calculations used for each FQA Indices tested are shown in Table 2.

**Table 2.** Notation and Calculations for FQA Indices

Floristic Quality Assessment Indices	Calculation
Mean C (native) = $\bar{C}_n$	$\sum Ci \div N$
Cover weighted Mean C (native) = $\bar{C}_{n\ cov}$	$(\sum Ci * MCi) \div TCi$
Mean C (all species) = $\bar{C}_{all}$	$\sum Cj \div N$ (C values for non-native are defaulted to 0)
Cover weighted Mean C (all species) = $\bar{C}_{all\ cov}$	$(\sum Cj * MCj) \div TCj$
Floristic Quality Index (native) = $FQI_n$	$\bar{C}_n * \sqrt{N}$
Cover weighted Floristic Quality Index (native) = $FQI_{n\ cov}$	$\bar{C}_{n\ cov} * \sqrt{N}$
Floristic Quality Index (all species) = $FQI_{all}$	$\bar{C}_{all} * \sqrt{N}$
Cover weighted Floristic Quality Index (all species) = $FQI_{all\ cov}$	$\bar{C}_{all\ cov} * \sqrt{N}$
Adjusted Floristic Quality Index = $AFQI$	$\left( \frac{\bar{C}_n * \sqrt{N}}{10 * \sqrt{S}} \right) * 100$
Cover weighted Adjusted Floristic Quality Index = $AFQI_{cov}$	$\left( \frac{\bar{C}_{n\ cov} * \sqrt{N}}{10 * \sqrt{S}} \right) * 100$

\*i = individual native species; N = native species richness; MC = mean cover/species; TC = total mean cover for all species; j = individual species (native or nonnative); S = total species richness (native and nonnative)

#### 3.2.1 Sample Site Classification

For identifying conservation targets or remnant or high-quality natural areas, Wilhelm and Ladd (1988) suggested determining FQI or  $\bar{C}$  values across ecotones and plant community types.

However, for many applications such as monitoring, establishing mitigation criteria, ecological integrity assessment, etc. this approach may not be useful. In addition, numerous studies have found that FQI scores differed among different plant community types due to the fact that some plant communities naturally support more generalist species than others (Andreas et al. 2004; Matthews 2003; Rooney and Rodgers 2002). Due to this potential ecological effect, these studies suggest constraining comparisons of C values to similar wetland types. Thus, wetland or plant community classification is an important component to the FQA.

Classification aids in constraining or minimizing natural variation by categorizing wetlands into units which share similar biotic and abiotic characteristics. Classification units that are too large may have too much internal variability to provide useful signals whereas units that are too small may pose practical difficulties in application. For the purpose of monitoring and assessing biological integrity, the purpose of classification is to group ecosystems based on biotic similarities in the absence of human disturbance as well as in regard to similarities in their response to human disturbance (Karr 1998). Thus, classifications based only on chemical or physical criteria may not be sufficient for biological monitoring (Karr 1998).

Classifications based on HGM are often used for wetland functional assessments due to their ability to distinguish unique abiotic processes. Vegetation types associated with each HGM class often reflect these different abiotic scenarios and consequently may share similar responses to human disturbance (DeKeyser et al. 2003). This suggests that HGM would be a useful and practical classification for FQA. However, there is often much overlap of physiognomic vegetation types (e.g., herbaceous vs. shrubland) among HGM classes. Since physiognomic type has been shown to be an important distinguishing variable for other vegetation assessments such as a vegetation index of biotic integrity, HGM may not be the best sole classification system to use (Mack 2004a). Thus, a classification system which utilizes vegetation as well as aspects of HGM is desirable. The ecological system classification (Comer et al. 2003), which incorporates both biotic and abiotic criteria, appears to meet such a need (Rocchio 2007). As such, ecological systems were chosen as the classification scheme and consequently were used to help determine sample site selection and design.

Comer et al. (2003) define ecological systems as “a group of plant community types that tend to co-occur within landscapes sharing similar ecological processes, substrates, and/or environmental gradients”. In the Southern Rocky Mountain ecoregion, physiognomy, elevation, water source, landform, and substrate were the diagnostic criteria used to define the following wetland and riparian ecological system types (Rondeau 2001):

- Rocky Mountain Alpine-Montane Wet Meadow
- Rocky Mountain Subalpine-Montane Fen
- Rocky Mountain Subalpine-Montane Riparian Woodlands,
- Rocky Mountain Subalpine-Montane Riparian Shrublands,
- Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrublands,
- North American Arid Freshwater Marsh
- Intermountain Basins Playa

Descriptions and a key to ecological system types were used to classify the targeted wetland’s ecological system type (Appendix A). The HGM type of each site was classified using the keys provided in Johnson (2005). Physiognomic class was determined based on the dominance or lack of shrubs at a site and soil type was determined by digging multiple soil pits within the vegetation plot to determine whether organic or mineral soils were predominant.

### **3.2.2 Reference Condition**

#### **Purpose**

In order to assess floristic or ecological response to human-induced disturbance a baseline reference condition consisting of no or minimal human impacts must be defined and described. By describing the natural variability associated with reference condition wetlands, the response of these wetlands to human-induced disturbances is more easily understood. In other words, it becomes easier to separate the signal (response to human disturbance) from noise (natural variability) when sampling wetlands across a human disturbance gradient. It follows that, if ecological response to stressors can be identified then better informed restoration, management, and protection projects can be implemented.

#### **Conceptual Definition**

Conceptually, the biotic reference condition for this project uses the concept of natural range of variability (NRV). NRV is based on the temporal and spatial range of climatic, edaphic, topographic, and biogeographic conditions under which contemporary ecosystems evolved (Morgan et al. 1994; Quigley and Arbelbide 1997). The NRV delimits the range of ecosystem processes that remain relatively consistent over a specified temporal period (Morgan et al. 1994). Regional climatic regimes have undergone more recent changes than geological parameters, thus the climate under which contemporary biota have evolved is most useful for delineating a temporal limit to the NRV. Whitlock et al. (2002) suggest modern climatic conditions in the Rocky Mountain region began about 3,000 years before present while Vierling (1998) estimates that current climatic conditions in central Colorado began about 1800 years before present. Thus, the NRV is not considered to be static for any given variable but rather a range of responses to climatic fluctuations which have occurred over the past few thousand years.

Another consideration for describing the NRV is the degree to which anthropogenic impacts have altered natural ecosystems. There is disagreement over whether disturbances resulting from Native Americans' interaction with the landscape occurred over spatial and temporal scales in which native flora and fauna were able to adapt (see Vale 1998 and Denevan 1992). The hypothesis offered by Vale (1998), which notes that Native American impacts were not ubiquitous across the landscape, is accepted for this project. Furthermore, where Native American impacts did occur, it is accepted here that they occurred over spatial and temporal scales in which native biota were able to adapt and thus are included within the NRV (Quigley and Arbelbide 1997; Wilhelm and Masters 1996). European settlement of the Southern Rocky Mountains began in earnest during the 1860s although fur-trappers were present in the area well before then (Wohl 2001). With settlement, came a profusion of impacts which occurred at a spatial and temporal scale, intensity, and duration unprecedented in the evolutionary history of contemporary ecosystems (Morgan et al. 1994; Poff et al. 1997; Quigley and Arbelbide 1997). Beavers were extirpated from the region by 1830 exerting major changes to the hydrology of streams and wetlands (Wohl 2001). Most low-elevation forests in the Rocky Mountains were cut over by 1900; domestic livestock operations boomed after 1880 affecting large areas of the Rocky Mountain landscape; and to date, there are more than 7,000 abandoned mines in Colorado (Rueth et al. 2002). Water resources were drastically affected by human and livestock consumption via irrigation and impoundments (Wohl 2001). For example, Solley et al. (1998) estimated that there are over 67,000 surface water diversions within Colorado's National Forests and Grasslands and nearby private lands. These alterations have resulted in many aquatic, riparian, and wetland environments being ecologically very different from which resident biota evolved (Poff et al. 1997). In conclusion, past and current human impacts have become one of the most dominant environmental variables affecting ecosystems (Vitousek et al. 1997) and there is no doubt that

European settlement has had a unique impact to the landscape. Thus, the NRV for this project spans the period between 3000 years BP until European settlement (approximately mid-1800s).

### Practical Definition

Practically speaking, the NRV is difficult to empirically define since long-term ecological data as well as data prior to European settlement are rarely available (Swetnam et al. 1999). Thus, a more practical definition of the reference condition is needed. The concept of Minimally Disturbed Condition (MDC), or the biotic condition of sites in the absence of significant human disturbance, is used here to define the reference condition for Southern Rocky Mountain wetlands and riparian areas (Stoddard et al. 2006). Stoddard et al. (2006) consider the MDC to be the “best approximation or estimate of biotic integrity”. Recognizing that most sites have likely been exposed to some minimal human stressor (e.g. atmospheric contaminants), the definition incorporates the disclaimer of “significant” human disturbances. The reference condition represents one end of a continuum ranging from sites with minimal or no exposure to human-induced disturbance to those in a highly degraded condition due to such impacts (Bailey et al. 2003; Stoddard et al. 2006).

Current and historical land use information was used to determine whether a specific site met the MDC criteria. As previously mentioned, historical and contemporary human disturbances directly or indirectly affect much of the Southern Rocky Mountain landscape (Wohl 2001); however, many areas in the Southern Rocky Mountains still meet the MDC criteria and thus allow direct observation and measurement of conditions which are likely very similar to what occurred prior to European settlement. Data from such sites allow the natural variability of the MDC to be quantified and/or described. Literature sources can also be used to describe the MDC. For example, Cooper and Gage (*In Progress*) provide a thorough review and synthesis of historic and contemporary climatic, geological, hydrological, and biological data as it relates to the concept of the historic range of variation for wetlands and riparian areas found within the mountainous portions of Colorado and adjacent states. Based on such literature resources as well as on-the ground experience, a general description of the MDC for the targeted wetland types can be found in the Rocky Mountain Sublapine-Montane Riparian Shrubland, Alpine-Montane Wet Meadow, and Subalpine-Montane Fen Ecological Integrity Assessment reports which are located online at <http://www.cnhp.colostate.edu/reports.html> (Faber-Lagendoen et al. 2006).

The natural variation of the MDC provides a baseline from which biotic or abiotic variables can be assessed to determine whether ecological integrity has been compromised at a site. Similarly, sites exposed to varying types and intensities of human disturbance are also sampled in order to characterize how each variable of interest (e.g. vegetation) responds to such impacts (Davies and Jackson 2006). This approach allows the construction of multi-metric indices as well as a framework for interpreting changes in ecological condition (Faber-Lagendoen et al. 2006; Davies and Jackson 2006).

For this project, contemporary and historic literature, GIS data concerning land use, observable signs of human disturbances, and best professional judgment were used to determine whether a sample site met or how much it has deviated from the MDC criteria. This was accomplished by applying this information toward the assignment of a Human Disturbance Index score (see Section 3.5.1). By sampling wetlands representing the continuum from reference to highly degraded, this project will seek to correlate the response of vegetation attributes to the Human Disturbance Index in order to create a Vegetation Index of Biotic Integrity.

### **3.2.3 Site Selection and Wetland Assessment Area**

#### **Sample Site Selection**

Sample sites were subjectively chosen to strive for adequate representation of the human-disturbance gradient and equal representation of each ecological system (U.S. EPA 2002b). A potential list of sample sites was first developed by categorizing the study area into *a priori* disturbance categories and identifying wetland sites within each category. This was accomplished using a Landscape Integrity Model (LIM), a GIS-based algorithm which plugs various land use GIS layers (roads, land cover, water diversions, groundwater wells, dams, mines, etc.) weighted according to their perceived impact on ecological integrity, into a distance-based, decay function to determine what effect these stressors have on landscape integrity. The result is that each grid-cell (30 m) is assigned an integrity “score”. The product is a watershed map depicting areas according to their potential “integrity”. A LIM was developed for this project’s study area to provide an initial stratification of potential sample sites (Figure 2).

Additionally, the following resources were used to identify and categorize potential sample sites into broad disturbance categories (as depicted in Figure 2):

- Digital orthophoto Quadrangles (1 m resolution)
- GIS layers (roads, utility lines, trails, mines, wilderness areas, National Land Cover Dataset, irrigation, ditches, groundwater wells, etc.),
- Element occurrence records from the Colorado Natural Heritage Program’s Biodiversity Tracking and Conservation System (Colorado Natural Heritage Program 2004),
- Bureau of Land Management Proper Functioning Condition data (Bureau of Land Management 2004),
- Site data from the Summit County Wetland Functional Assessment (SAIC 2000),
- U.S. Forest Service wetland surveys (Summit County 1999), and

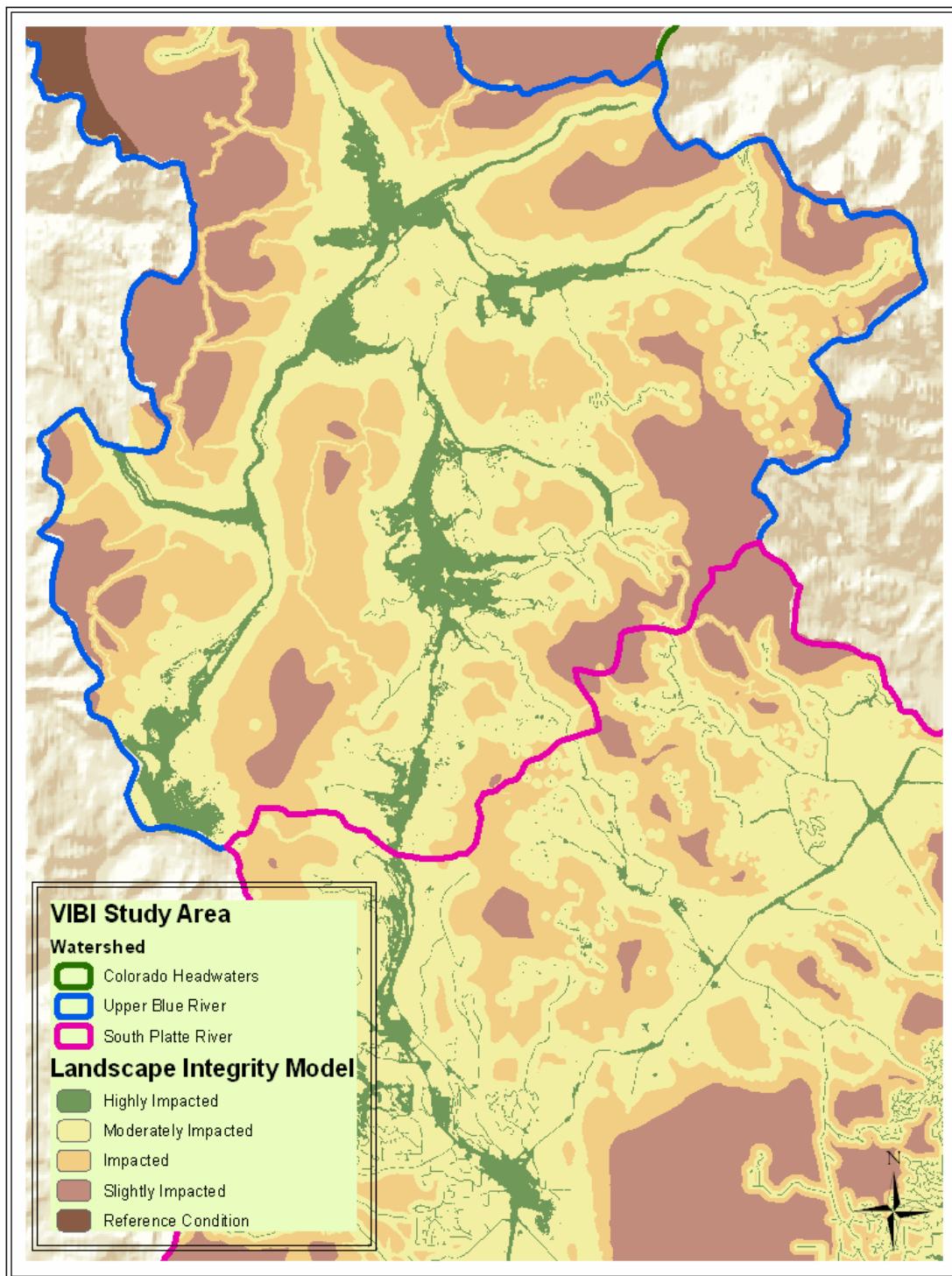
Coupled with the LIM, these qualitative determinations helped stratify and target sampling efforts. However, onsite assessment often placed a wetland into a different disturbance category than the one identified using the LIM and other resources. Sample site selection was adjusted accordingly to strive for equal representation of disturbance across ecological system types. Once onsite, a different set of criteria was used to assign a human disturbance index score (see Section 3.5.1). Sample site selection and data collection occurred during the summers of 2004 (Plots 1-20), 2005 (Plots 21-52), and 2006 (Plots 53-78). Notes: Plot 12 was removed as it was resampled (Plot 21) due to data quality issues. Plots 66 and 67 were removed because they represented wetland type (e.g. salt flats) not included in this study. Thus, a total of 75 plots were included for data analysis.

#### **Wetland Assessment Area**

At each sample site, a wetland assessment area (AA) was defined. The AA is simply the boundary of the wetland (or a portion thereof) in which analysis will occur. The AA is defined for the purpose of developing a vegetation index of biotic integrity, thus different criteria may be used for other project objectives such as those associated with regulatory projects. For example, regulatory projects also have “project boundaries” and such projects may require assessing multiple AAs within each project area. For this project, typically only one AA was assessed at each site. The steps below were taken to delineate the AA for this project:

##### **1. Estimation of Wetland Boundaries**

The first step in identifying the wetland assessment area was to delineate the approximate boundaries of the wetland. Readily observable ecological criteria such as vegetation, soil, and



**Figure 3.** Example of Landscape Integrity Model Results for a Portion of the Study Area

hydrological characteristics were used to define wetland boundaries, regardless of whether they met jurisdictional criteria for wetlands regulated under the CWA.

## 2. Delineating Ecological System Boundaries

The second step was to delineate the targeted ecological system type present within the wetland boundary. Ecological system descriptions (Appendix A) were used to guide a subjective determination of the target system's boundaries in the field. A confounding factor is that ecological systems often co-occur in the landscape. For example, fens may occur together with riparian shrublands in a basin or along a riparian corridor (Figure 4). Similarly, wet meadows are often interspersed with riparian shrublands. For such scenarios, it was necessary to delineate the boundaries of these separate ecological systems based on the minimum size criteria associated with each system (Appendix A). Each patch of ecological system meeting its minimum size would be considered a separate potential AA and thus as an independent sample point (Figure 4). If an ecological system patch was less than its minimum size then it would be considered to be an inclusion within the ecological system type in which it is embedded.

There were a few cases where wet meadows and fens which were smaller than their minimum size criteria were chosen as sample AAs because they were limited in size only by their hydrogeomorphic position (Plots 01, 39, and 51) (i.e. small areas of groundwater discharge surrounded by uplands).

## 3. Size and Land Use Related Boundaries

Once the targeted ecological system's boundaries were delineated, then size and land use were used to further refine AA boundaries. For example, depending on the size or variation of the wetland area, the AA may consist of the entire site or only a portion of the wetland/riparian area. For small wetlands or those with a clearly defined boundary (e.g., isolated fens or wet meadows) the AA was almost always the entire wetland. In very large wetlands or extensive and contiguous riparian types, a sub-sample of the area was defined as the AA for this project. For other project purposes such as regulatory wetland projects, there may be multiple AA in one large wetland. A few samples sites contained multiple AAs due to abrupt changes in land use or human-induced disturbances. These distinct AAs were treated as separately in data analysis (Figure 4)

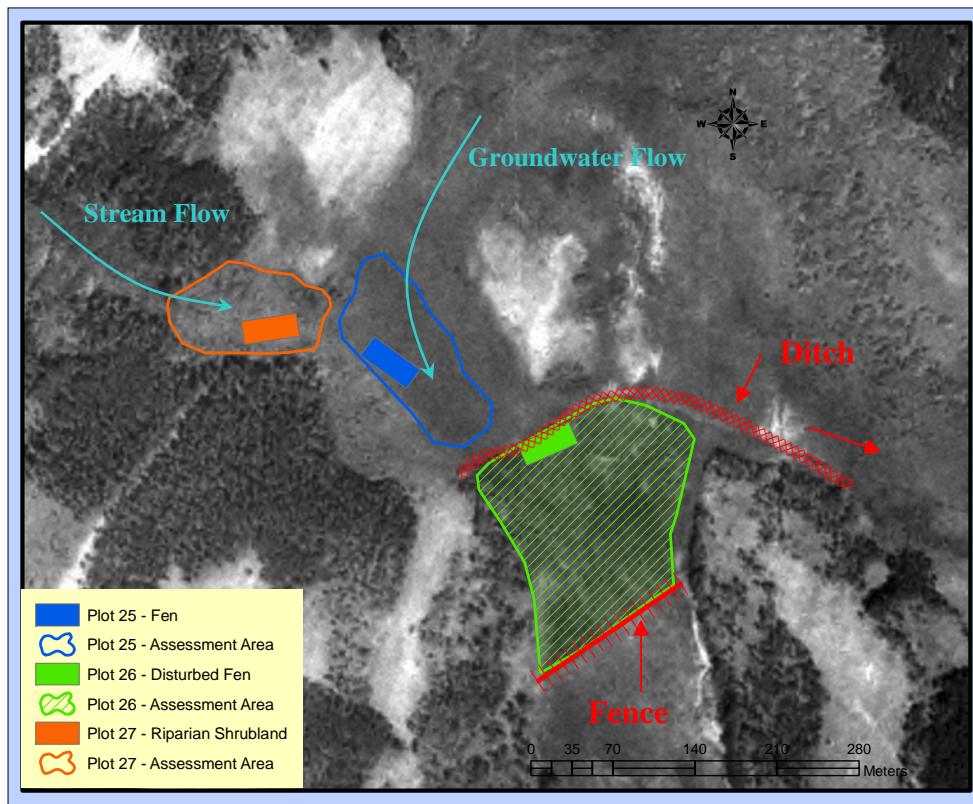
The following size and land use guidelines were used to make final adjustments to the AA boundaries<sup>16</sup>:

### Wetland AA Boundaries:

1. Wet meadows and fens were often spatially distinct from surrounding uplands or adjacent wetland types and easily identified. For these cases, the AA was often the entire wetland area.
2. Significant change in management or land use which result in distinct ecological differences dictated distinct AAs. For example, a heavily grazed wetland on one side of a fence line and ungrazed wetland on the other would result in two AAs.
3. Natural changes in hydrology. For example, a drastic change in water table levels or fluctuations, confluence with a tributary, etc. would dictate separate AAs. Anthropogenic changes in hydrology. For example, ditches, water diversions, irrigation inputs, roadbeds, etc. which substantially alter a site's hydrology relative to adjacent areas would dictate separate a AA.

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<sup>16</sup> These guidelines are mostly based on those identified by Mack (2001), Washington State Dept. of Ecology (1993), and Collins et al. (2006).



**Figure 4.** Examples of Delineated Wetland Assessment Areas. Although contiguous with each other, three distinct AAs were delineated because either they were distinct ecological system types (e.g. fen vs. riparian shrubland) or due to a human-induced disturbance (e.g. ditch) which significantly altered a large portion of an otherwise contiguous wetland type (e.g. intact vs. disturbed fen).

4. For large wetlands, representative sub-samples of the floristic and abiotic micro-variation with the wetland/riparian type in question was used as the AA. For example, in a large wetland such as High Creek Fen, sedge meadows, water tracks, and rills represented micro-variation within the fen ecological system type. A representative sub-sample included portions of these variations within the AA.

#### Riparian AA Boundaries:

1. Lateral boundaries were defined by:
  - Abrupt changes in geomorphology (e.g., upland slopes)
  - Transition of wetland vegetation to upland species.
2. Longitudinal boundaries were defined by:
  - Natural changes in hydrology. For example, a change in channel type (e.g. Rosgen 1996), geomorphic constrictions, the presence/absence of beaver ponds, confluence with a tributary, or rapids/waterfalls.
  - Anthropogenic changes in hydrology. For example, dams, water diversions, dikes, berms, roadbeds, etc. which substantially alters a site's hydrology relative to adjacent reaches.

- Significant change in management or land use which result in distinct ecological differences. For example, a heavily grazed shrubland on one side of a fence line and ungrazed shrubland on the other.
- Sub-sample of riparian area that is representative of local human-induced disturbances and floristic variation. For example, if hydrological changes and/or management criteria aren't helpful in defining the AA because the wetland in question is so large (longitudinally or laterally), then a representative sub-sample of the wetland was defined as the AA.

### *3.2.4 Plot Establishment and Vegetation Sampling*

#### Plot Location

Vegetation plots were subjectively placed within the AA to maximize abiotic/biotic heterogeneity within the plot. Capturing heterogeneity within the plot ensures adequate representation of local, micro-variations produced by such things as hummocks, water tracks, side-channels, pools, wetland edge, micro-topography, etc. in the floristic data.

The following guidelines were used to determine plot locations within the AA<sup>17</sup>

- The plot was located in a representative area of the AA which incorporated as much microtopographic variation as possible.
- If a small patch of another wetland type was present in the AA (but not large enough to be delineated as a separate ecological system type), the plot was placed so that at least a portion of the patch was in the plot.
- When site characteristics dictated a modification of plot structure, an alternative array of modules was selected to best represent the AA (e.g. 20 m x 20 m for small circular sites or 10 m x 50 m for narrow linear areas)
- Uplands were excluded from plots; however, mesic microtopographic features such as hummocks, if present, were included in the plots.
- Localized, small areas of human-induced disturbance were included in the plot according to their relative representation of the AA (large areas of human-induced disturbance dictated that the area be delineated as a separate AA).

#### Reléve Method

A 20 m x 50 m reléve plot developed by Robert Peet was used to collect vegetation data. The method has been in use by the North Carolina Vegetation Survey for over 10 years (Peet et. al 1998) and has also been used to successfully develop a VIBI in Ohio (Mack 2004b).

The structure of the plot consists of ten 100 m<sup>2</sup> modules (total of 1000 m<sup>2</sup> or 0.1 hectare) which are typically arranged in a 20 m x 50 m array (Figure 5). Floristic measurements included presence/absence and abundance (e.g. cover) and were made within at least four of the 100 m<sup>2</sup> intensive modules. These are referred to as “intensive” modules. In addition, nested quadrats within each module are established in at least two corners providing data from multiple scales (Figure 5). The remaining six modules are considered “residuals” and are searched for any species not documented in the intensive modules.

To lay out the plot, a 50 m measuring tape was extended as the centerline of the plot from a subjectively chosen origin (see Section 3.4.1). Starting at zero, a stake flag (or flagging tied to a

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<sup>17</sup> Many of the guidelines are based on Mack 2004b.

shrub /tree) was placed every 10 m. Red stake flags or flagging were placed at the 0, 40, and 50 m marks and green stake flags/flagging at the 10, 20 and 30 m marks. This helped visualize the four “intensive modules” which occur on either side of the centerline between the 10-30 m marks. Next, a 10 m rope was extended perpendicular on either side of the centerline at each 10 m mark. Red or green flags were placed at the end of the rope to mark the lateral boundaries of each module and the plot.

If the wetland had an irregular shape and the plot did not “fit”, the 2 x 5 array of modules was restructured to accommodate the shape of the wetland or AA. For example, a 1 x 5 array of 100 m<sup>2</sup> modules was used for narrow, linear areas. A 2 x 2 array of 100 m<sup>2</sup> modules was used for small, circular sites (Peet et. al. 1998; Mack 2004b). Regardless of the structure, a minimum of four intensive modules was always sampled.

If the wetland was so large that the 20 m x 50 m plot did not capture a significant amount of variation of the wetland, then the 2 x 5 array of 100 m<sup>2</sup> modules was separated into ten individual modules which were subjectively established throughout the wetland to ensure variation of the wetland type was captured (Figure 6). In this case, all ten modules were intensively sampled. For other types of projects, the locations of these modules might be randomly placed throughout the wetland (Mack 2004b).

Each module in the plot was numbered by standing at the 0 m mark facing the 50 m end, the modules were assigned from 1-5 starting on the right side and modules 6-10 were assigned using a similar method then from the 50 m mark (Figure 5). Intensive modules were typically modules 2, 3, 8, and 9. Within intensive modules, a log<sub>10</sub> series of nested subquadrats were established to obtain estimates of species composition at multiple spatial scales (e.g., 0.01, 0.1, 1.0, and 10 m<sup>2</sup>) (Figure 5). The subquadrats were established in one or more corners in each intensive module. For this project, only two corners in each of the four intensive modules were sampled. When standing at the 0 m mark and facing the 50 m end, the corners of each intensive module are numbered in a clockwise direction within each module. To maximize spatial distinction of the sampled corners, the following sequence of corners was sampled: Module 2 (corners 2 and 4), Module 3 (corners 2 and 3), Module 8 (corners 2 and 4), and Module 9 (corners 2 and 3) (Figure 5). For those plots that did not use a 2x5 array of modules (e.g. 1x5 or 2x2), the module numbers may be different (and were randomly chosen); however the same sequence of corners was used.

The number of subquadrats in a nest is referred to as depth, where a depth of 5 indicates species presence was recorded in the 0.01 m<sup>2</sup> subquadrat, depth of 4 (0.1 m<sup>2</sup>), depth of 3 (1.0 m<sup>2</sup>), depth of 2 (10.0 m<sup>2</sup>), and depth of 1 (100.0 m<sup>2</sup>). Sampling began at the smallest subquadrat and each species received a number corresponding to the depth at which it was initially encountered. During 2004, all five depths (subquadrats) were sampled; however, to increase efficiency and due to a lack of utility of the finer scaled depths, only 3 subquadrats (1, 10, and 100 m<sup>2</sup>) were sampled in 2005 and 2006. Presence recorded for a particular depth implies presence at all lower-numbered depths, thus both corners were sampled before documenting which species occur at depth 1 (100 m<sup>2</sup>).

Cover was visually estimated at the level of the 100 m<sup>2</sup> module (depth 1) using the following cover classes (Peet et al. 1998):

- 1 = trace (one individual)
- 2 = 0-1%
- 3 = 1-2%
- 4 = 2-5%

5 = 5-10%

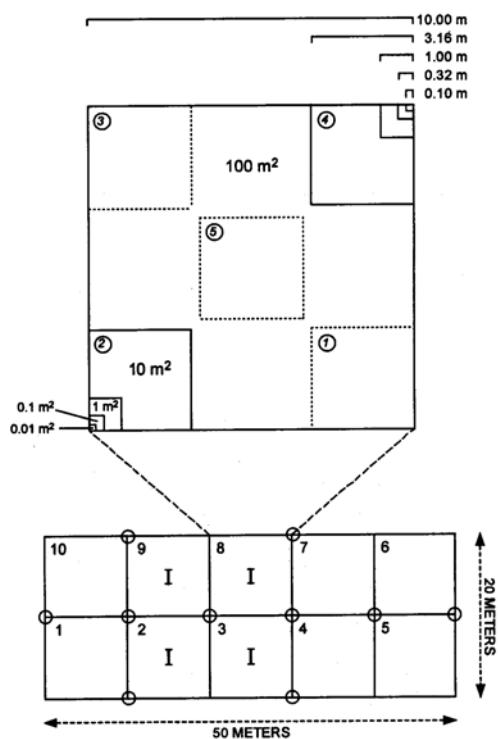
6 = 10-25%

7 = 25-50%

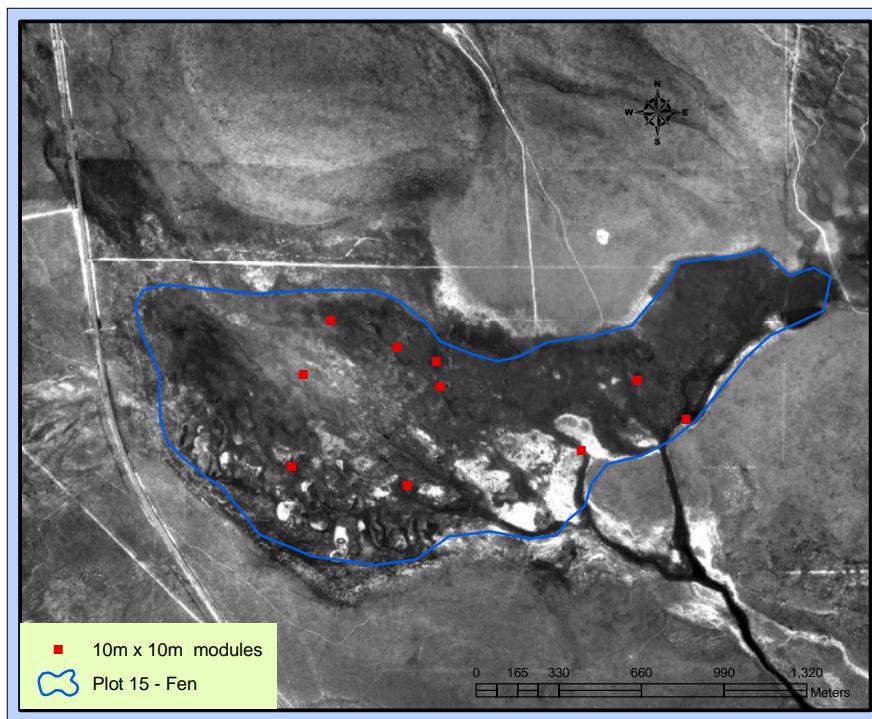
8 = 50-75%

9 = 75-95%

10 = > 95%



**Figure 5.** Reléve Plot Method (from Peet et al. 1998). I = intensive modules. Nested subquadrats are shown in the inset diagram at the top.



**Figure 6.** Example of 20m x 50m plot broken into ten 100m<sup>2</sup> modules.

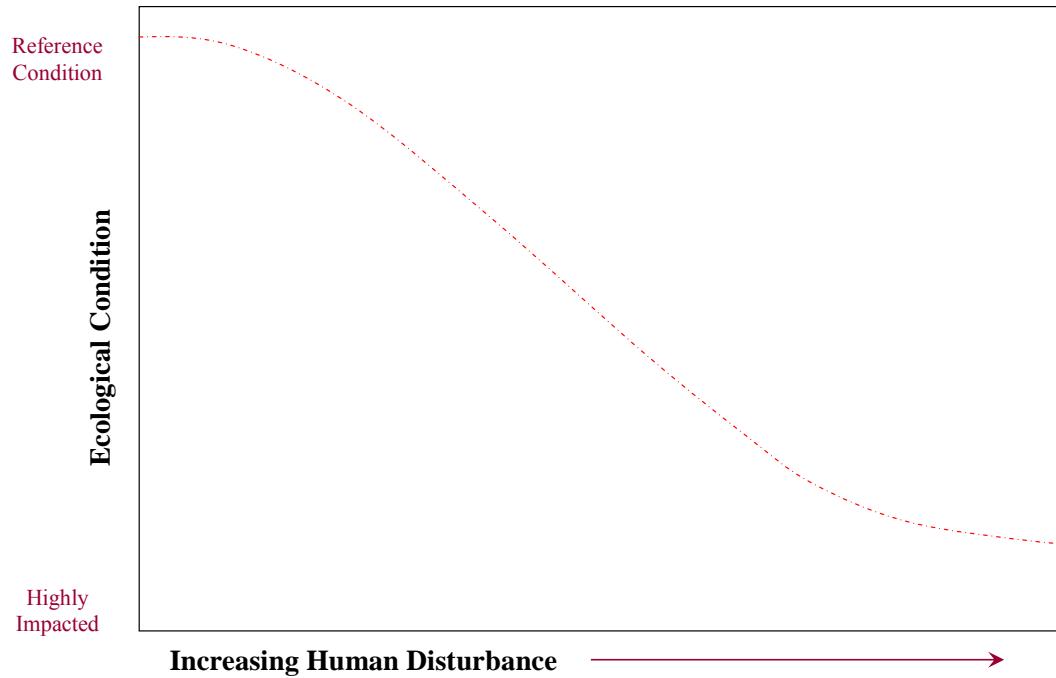
After sampling each of the intensive modules, the remaining (i.e. residual) modules were walked through to document presence of any species not recorded in the intensive modules. Percent cover of these species is estimated over the entire 1000 m<sup>2</sup> plot. Cover was the only abundance measurement for all species.

### 3.2.5 Human Disturbance Gradient

#### Human Disturbance Index

The Human Disturbance Index (HDI) is a semi-quantitative index which provides an independent measure of wetland condition against which vegetation attributes are assessed to determine their relationship with increasing human disturbance (Appendix B). The HDI is an estimate of the degree to which each site has deviated from the reference condition, as defined by the minimum disturbed condition (MDC). The HDI was developed using rapidly employed metrics extracted from the related Ecological Integrity Assessment (Faber-Langendoen et al. 2005; Rocchio 2006a) as well as metrics employed in other rapid wetland condition assessment methods (Montana Department of Environmental Quality 2005; Mack 2001).

The HDI is based on the MDC definition of ‘reference condition’ and assume that the absence of historic and/or contemporary human disturbance indicates that the wetland or riparian area possesses biotic and ecological integrity and that increasing human disturbance results in a predictable deviation from the ecological reference condition (Figure 7). The HDI utilizes a series of metrics related to three major categories of human-induced stressors associated with wetlands and riparian areas in Colorado.



**Figure 7.** Human Disturbance and Ecological Condition. Graph adapted from: Davies and Jackson (2006).

The stressor categories and their respective metrics are listed below:

**Alterations within Buffers and Landscape Context**

- Average Buffer Width
- Land Use in 100 m Buffer
- Percentage of Unfragmented Landscape within 1 km (0.6 miles)
- Riparian Corridor Continuity

**Hydrological Alterations**

- Hydrological Alterations
- Upstream Surface Water Retention
- Upstream/Onsite Water Diversions/Additions
- Floodplain Interaction

**Physical/Chemical Disturbances**

- Substrate/Soil Disturbance
- Onsite Land Use
- Bank Stability
- Algal Blooms
- Cattail Dominance
- Sediment/Turbidity
- Toxics/Heavy Metals

Each metric has descriptive criteria indicating how many points are assigned to it (see form in Appendix B). The two highest indicator scores for each metric are summed then multiplied by a weighting factor (0.33 for Buffer/Landscape Context and Physical/Chemical Disturbances; 0.34 for Hydrology) to arrive at a final score ranging from 0 (reference condition; no/minimal human-induced disturbance) to 100 (highly impacted).

### *3.2.6 Other Data Collected*

Standard site data were collected from each sample location. This included:

- HGM classification (Johnson 2005)
- Classification of plant association(s) (Carsey et al. 2003)
- Cowardin classification (Cowardin et al. 1979)
- GPS location
- Elevation
- Slope between 0 and 50 m mark of vegetation plot
- Compass direction of plot
- Selected soils data – depth and identification of soil horizons, texture, and color.
- Water table depth
- Nearby landforms (alluvial fans, narrow bedrock valley, alluvial valley, etc.)
- Description of onsite and adjacent ecological processes and land use.
- Description of general site characteristics.
- Photos
- Water pH, conductivity, and temperature were measured using a Hanna Instruments hand-held meter (Model # HI98129).

### *3.2.7 Data Management and FQA Database*

An FQA database containing every species in the Colorado flora as well as their associated life history traits, wetland indicator status, and C values was created. Species nomenclature follows USDA PLANTS Database (<http://plants.usda.gov/>) as of January 2005. Since many practitioners in Colorado use Dr. William Weber's Colorado East/West Slope floras as a field key and nomenclature reference (Weber and Wittmann 2001a, 2001b), these names were cross-referenced to the PLANTS names in the database. Life history traits and wetland indicator status were downloaded from PLANTS. The USFWS Region 5 and 8 Wetland Indicator Status lists were also used to ensure that PLANTS information was correct (Reed 1988). However, these lists are not complete and many species did not have a wetland indicator status listed. For some of these species, a wetland indicator status was estimated using input from members of the Colorado Floristic Quality Assessment Panel as well as the author's personal experience with the flora.

Vegetation data were entered into a Microsoft Excel<sup>TM</sup> spreadsheet where data were “reduced” from raw cover class scores to cover values (the midpoint of each cover class). Mean cover for each species was averaged across the intensive modules and used in data analysis. For those species only occurring in the residual plots, the cover value for the residual plots was used for analysis. To eliminate spelling errors, a drop-down list was used for species entry. For a few vegetation plots, a number in a couplet (depth/cover) was missing. Because one value was recorded, it was assumed that the species was present in the plot and that the second value was simply overlooked. For these situations, a default value of 1 was entered no matter whether the missing value was depth or cover. Unknown or ambiguous species (e.g. Carex sp.) were recorded

but not included in data analysis. Data entry was reviewed by an independent observer for quality control.

Coefficients of conservatism, nativity and cover data were used to calculate FQA indices using the pivot table feature in Microsoft Excel™. Calculations made by pivot tables were randomly checked via hand-calculations to ensure that pivot tables were constructed correctly. Environmental data and human disturbance rating scores were also entered into a Microsoft Excel™ spreadsheet. These data were combined with metric values from each plot into a new spreadsheet. This spreadsheet served as the basis for analysis.

### *3.2.8 Data Analysis*

#### Assignment of C values

Descriptive statistics were used to determine the distribution, number, and range of C values assignments. The average Panel assigned C value was compared to the empirically assigned C values using a Pearson correlation coefficient and descriptive statistics. Panel C values were not rounded for this analysis; however, the values in Appendix E were rounded to integers.

#### Testing FQA Indices

The values for FQA indices were calculated for each plot sampled. The following protocol was then implemented in the order shown to screen and identify which of the FQA indices were effective in detecting degradation of the plant community due to human disturbance (Barbour et al. 1996; Blocksom et al. 2002; Jones 2005):

*1. Discriminatory Power:* Box plots were used to assess the ability of each FQA index to discriminate between reference and highly impacted site (reference = HDI  $\geq$  68; highly impacted = HDI  $\leq$  33). Each index was scored according to the following criteria: 3= no overlap of interquartile range of reference vs. highly impacted sites (middle 50% of observations), 2=Interquartile ranges overlap but medians of both disturbance groups are outside the other's interquartile range, 1= Interquartile ranges overlap and one median occurs inside the other's interquartile range, 0= both medians overlap the others interquartile range or one group's interquartile range was entirely overlapped by the other's). Those indices which scored a 2 or 3 were considered to have adequate discriminatory power.

*2. Correlation to Disturbance:* The relationship of each FQA index to the HDI was assessed using scatterplots and Spearman's rank correlation coefficients ( $r[s]$ ). Spearman's rank was used because the HDI consists of ordinal data. The Spearman's correlation coefficient measures the strength of correlation between the ranks of two variables.

*3. Efficacy:* The effectiveness of each FQA index in detecting floristic changes due to human disturbance was rated according to the following criteria:

Strong = Strong/good discriminatory power and correlation to HDI  $>$  0.50

Weak = Good/weak discriminatory power and correlation to HDI  $>$  0.30 (this rating was included due to the possibility that additional data collection may improve the index's effectiveness)

Poor = Weak/poor discriminatory power and correlation to HDI  $<$  0.30

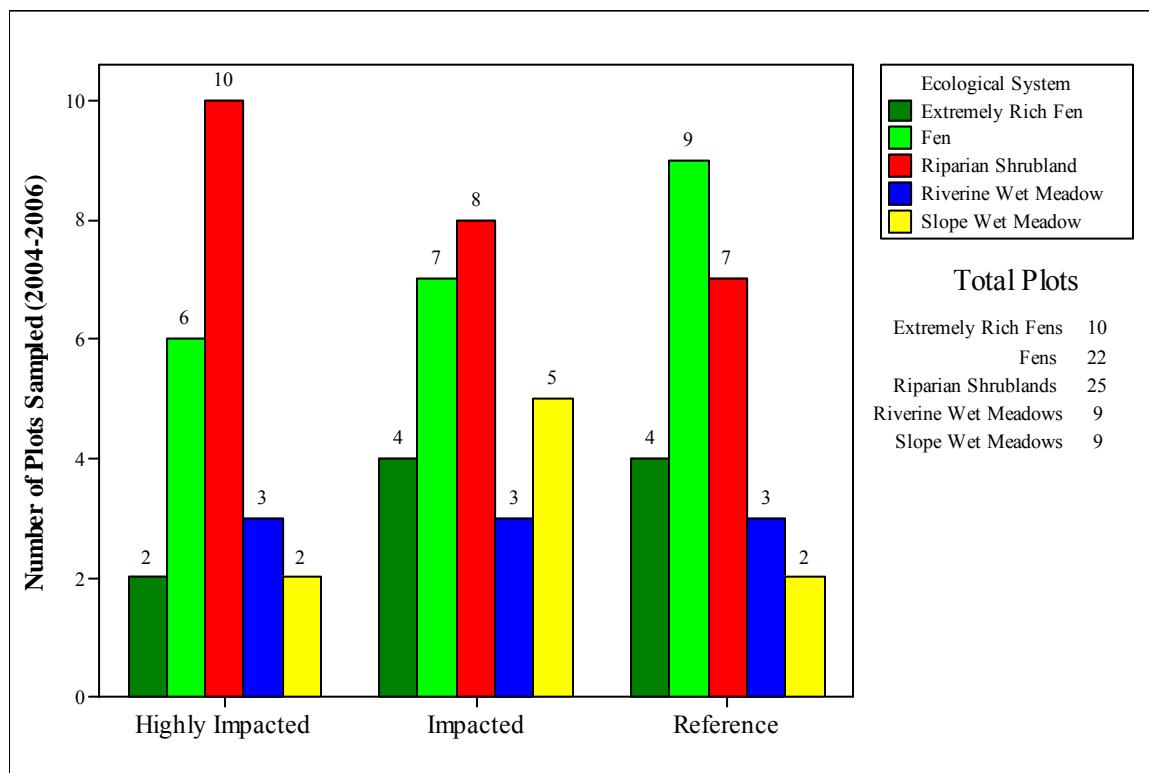
## 4.0 RESULTS

### 4.1 Sample Sites

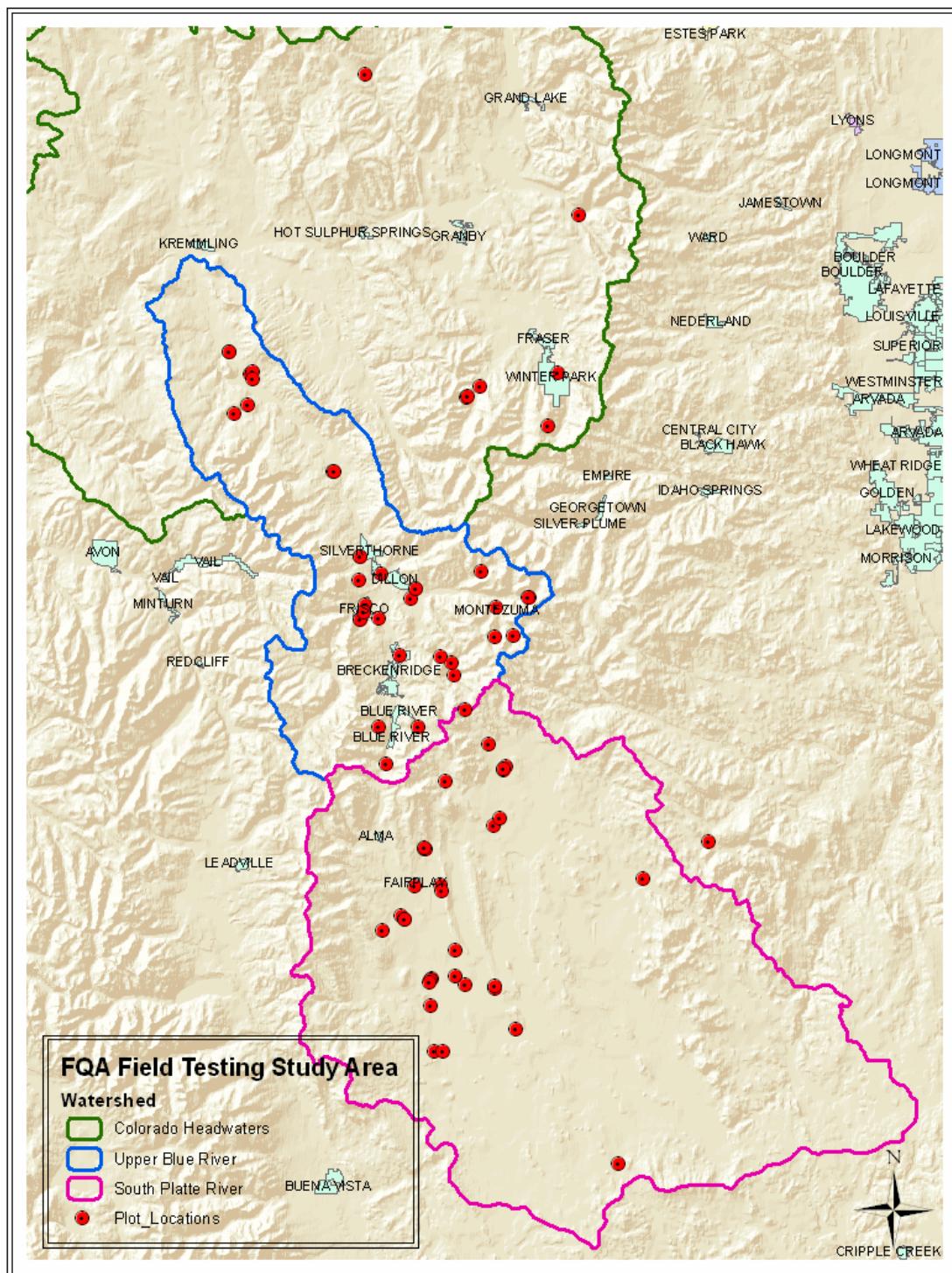
A total of 75 plots were sampled over three field seasons (2004, 2005, and 2006; Figures 8 & 9). Most data collection occurred in the Upper Blue River and South Platte River Headwaters watersheds while a few reference quality sites were sampled in the Colorado Headwater watershed (Figure 9; Appendix C). A total of 480 species were identified in the 75 plots sampled (Appendix D), with 354 (mean of 62/plot) species found in riparian shrublands, 246 (mean of 30/plot) in fens, 190 (mean of 46/plot) in slope wet meadows, 171 (mean of 37/plot) in riverine wet meadows, and 130 (mean of 41/plot) in extremely rich fens.

Sampling initially focused on three ecological system types (wet meadows, fens, and riparian shrublands) with the intended goal of obtaining at least 25 plots per type. However, classification analysis indicated that fens and wet meadows needed to be split into two types (Rocchio 2007). Due to this, each ecological system type did not receive the same amount of sampling effort since the additional types were not initially targeted for sampling (Figure 8).

Riparian shrublands and fens have adequate representation across the human disturbance gradient (Figure 8). However, the newly defined types (extremely rich fens, slope wet meadows, and riverine wet meadows) generally need more data collection.



**Figure 8.** Plot Distribution Across Ecological System Types and Degree of Human Disturbance



**Figure 9.** Plot Locations

## 4.2 Assignment of Coefficients of Conservatism Values

### 4.2.1 Panel Assigned C values

C values were assigned for 80% of the native Colorado flora (Table 3). Non-native species, which do not receive a C value assignment (they default to 0 in any analysis which includes them) comprise 16% of the flora, thus 84% of the Colorado flora is complete. The Panel was not able to assign C values to 525 species (16%). The C value assignments are listed in Appendix E.

**Table 3.** C value Assignments

Native Species Assigned C values	2,160 (80%)
<i>Species Not Completed (not assigned C value)</i>	525 (20%)
<b>Total Native Species</b>	<b>2,685</b>
Non-native species	506
<b>Total Species in Database</b>	<b>3,191</b>

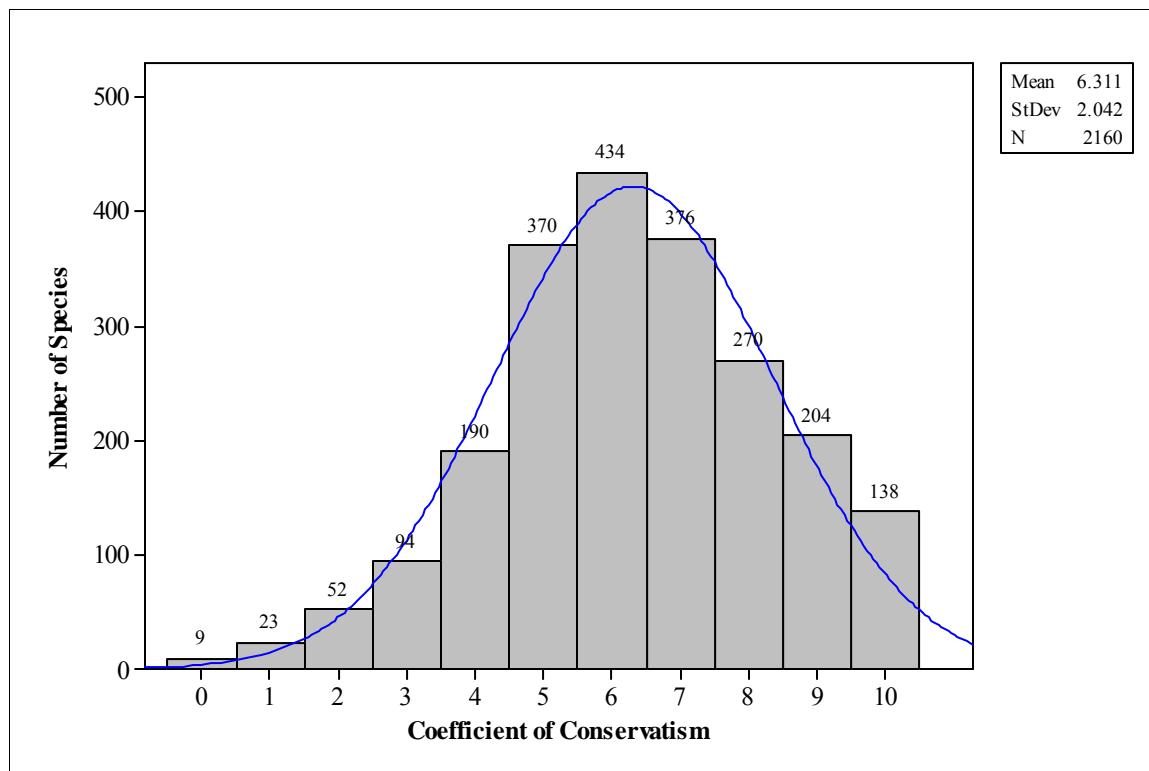
A histogram of the assigned C values is shown in Figure 10. The mean was 6.31 and there was a standard deviation of 2.04. The distribution of C values is skewed toward the higher end of the scale (Figure 10). Only 8% (178) of the assigned species had a C value  $\leq 3$  whereas 46% (988) of the species had a C value  $\geq 7$  (Figure 10).

Each Panel member suggested C values for those species they were most familiar with. Consequently, some species had more input than others. The number of individual suggestions (sample size) for those 2,160 species which were assigned C values is shown in Figure 11. Approximately 25% (529 species) are based on one individual suggestion indicating that many species were unknown to most of the Panel.

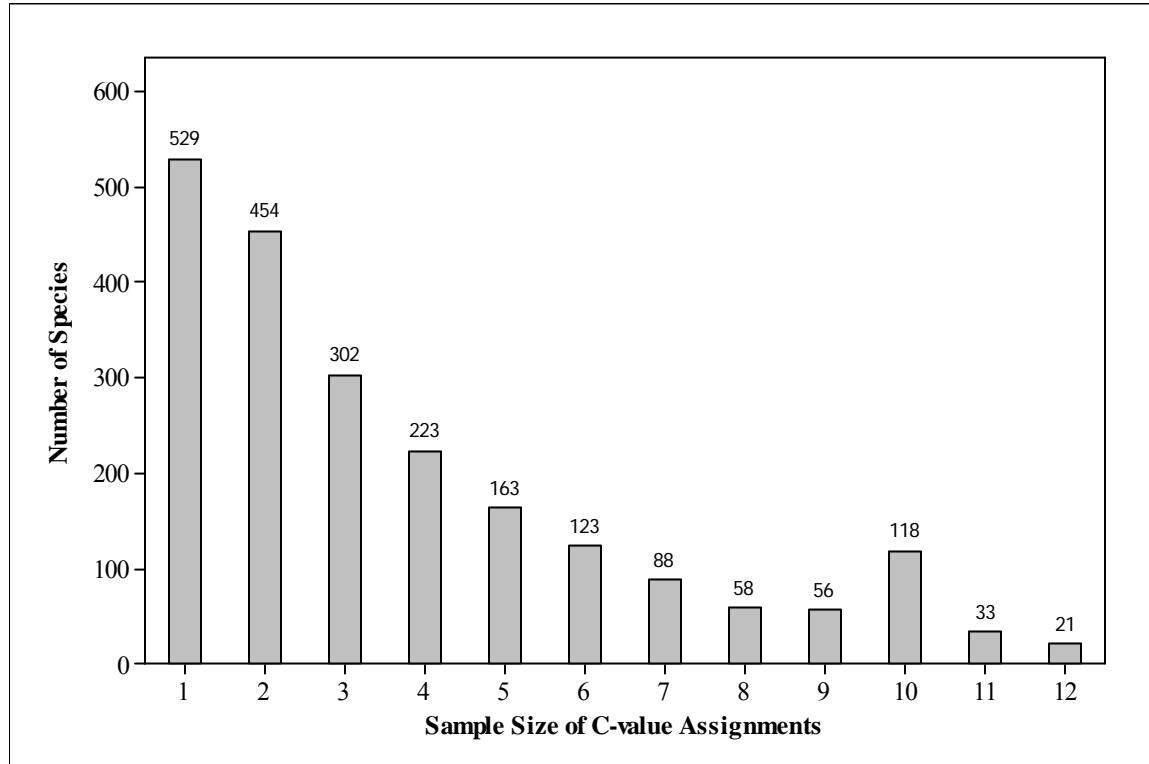
Of the 1,631 species which had more than one suggested C value, the majority of the Panel was in agreement regarding the individual assignment of C values. Figure 12 shows the number of species and their respective range of assigned C values. For example, the Panel was in complete agreement (i.e. range of 0) for 15% (250) of the species which were assigned C values (Figure 12). The Panel was in close agreement (range <3) for 90% (1,467) of the species assigned C values (Figure 12). However, there is strong disagreement regarding the remaining 10% (Figure 12).

### 4.2.2 Comparison of Panel and Empirically Defined C values

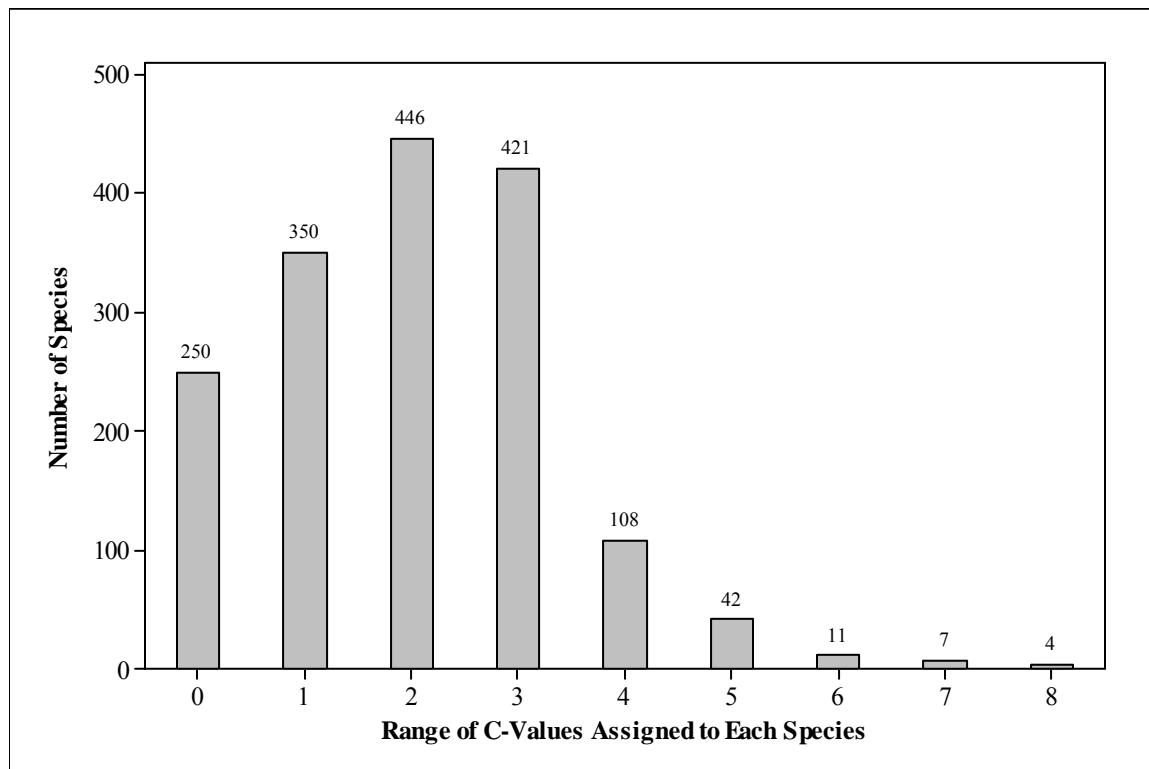
Of the 480 plant species observed in the 75 sample plots, 237 occurred in three or more plots and were assigned C values based on the average Human Disturbance Index scores of the plots in which they occurred. These empirically derived C values were compared to the Panel assigned C values using a histogram of the range of difference between these values (Figure 13) and Pearson correlation coefficients (Figure 14).



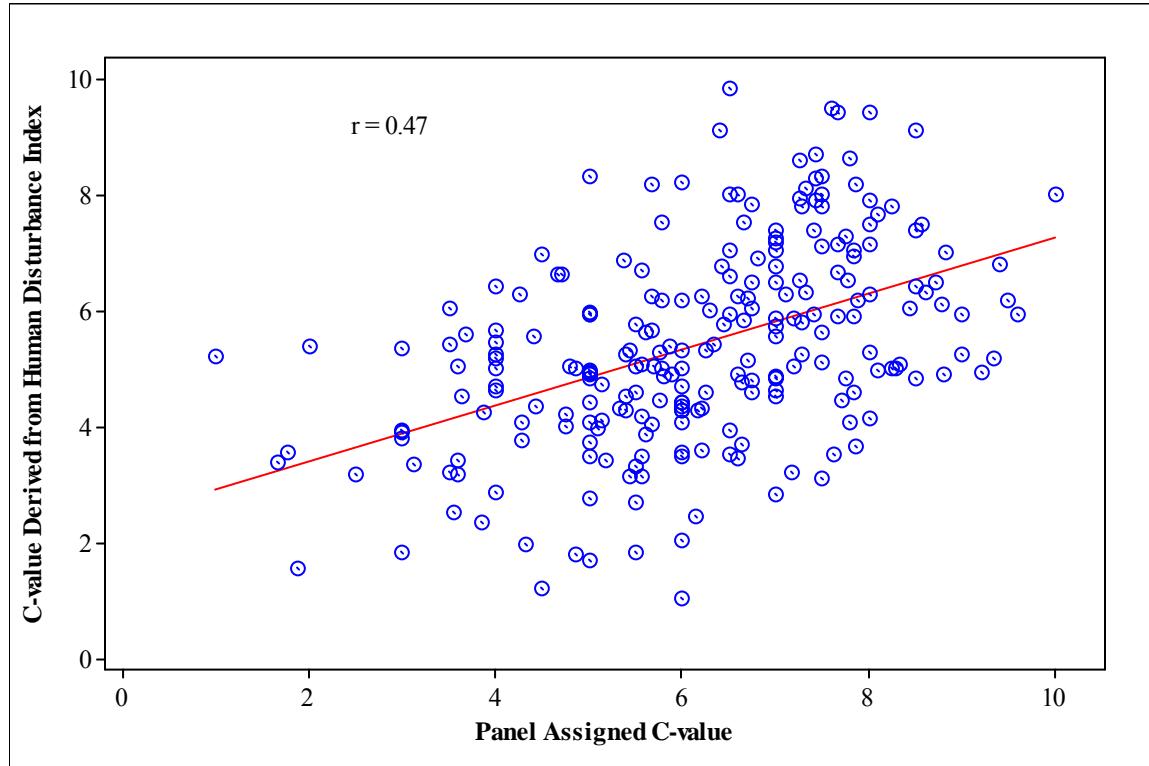
**Figure 10.** Distribution of Panel Assigned Coefficient of Conservatism Values for Native Species



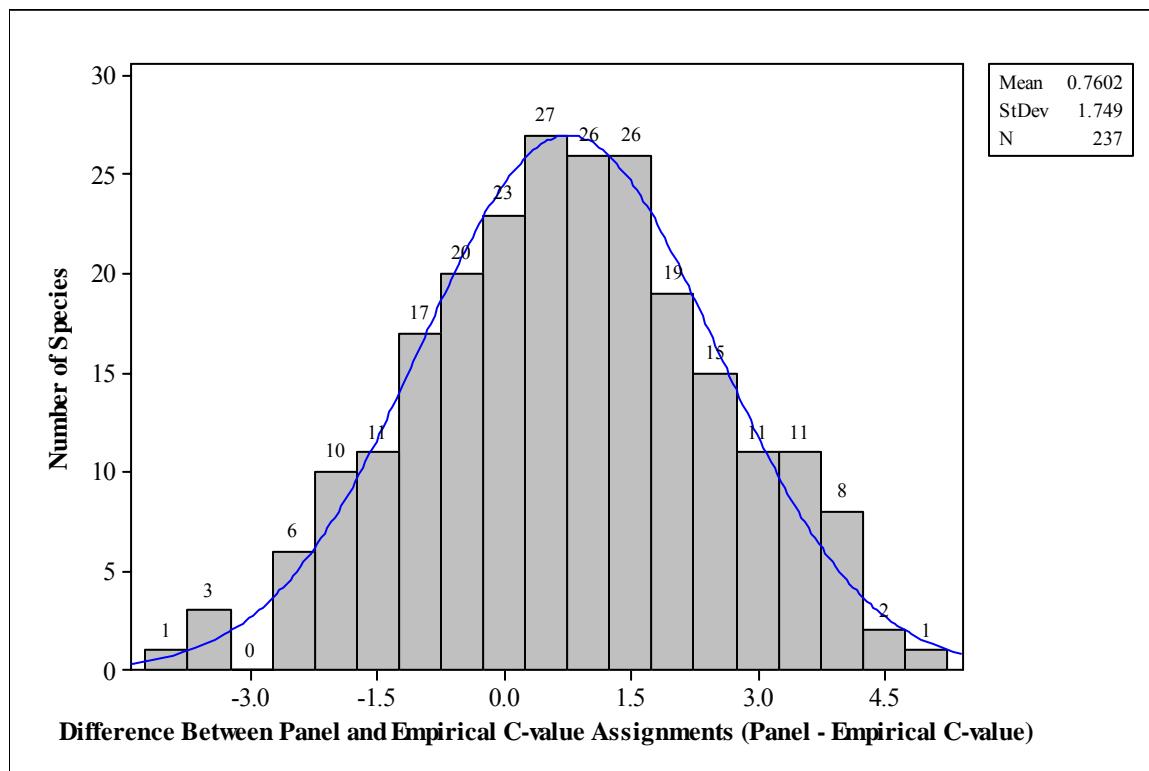
**Figure 11.** Sample Size for Panel C value Assignments



**Figure 12.** Range of Panel C value Assignments



**Figure 13.** Pearson Correlation of Panel and Empirical C value Assignments



**Figure 14.** Disagreement of Panel and Empirical C value Assignments

The correlation between the Panel and empirical C value assignments is strong ( $r = 0.47$ ) but still shows considerable noise (Figure 13). However, most of this noise is associated with relatively small (e.g.  $<3$ ) differences between the two approaches (Figure 14). The Panel C value assignments were generally higher than those empirically assigned; 62% (146) of the species had higher Panel assigned C values (Figure 14).

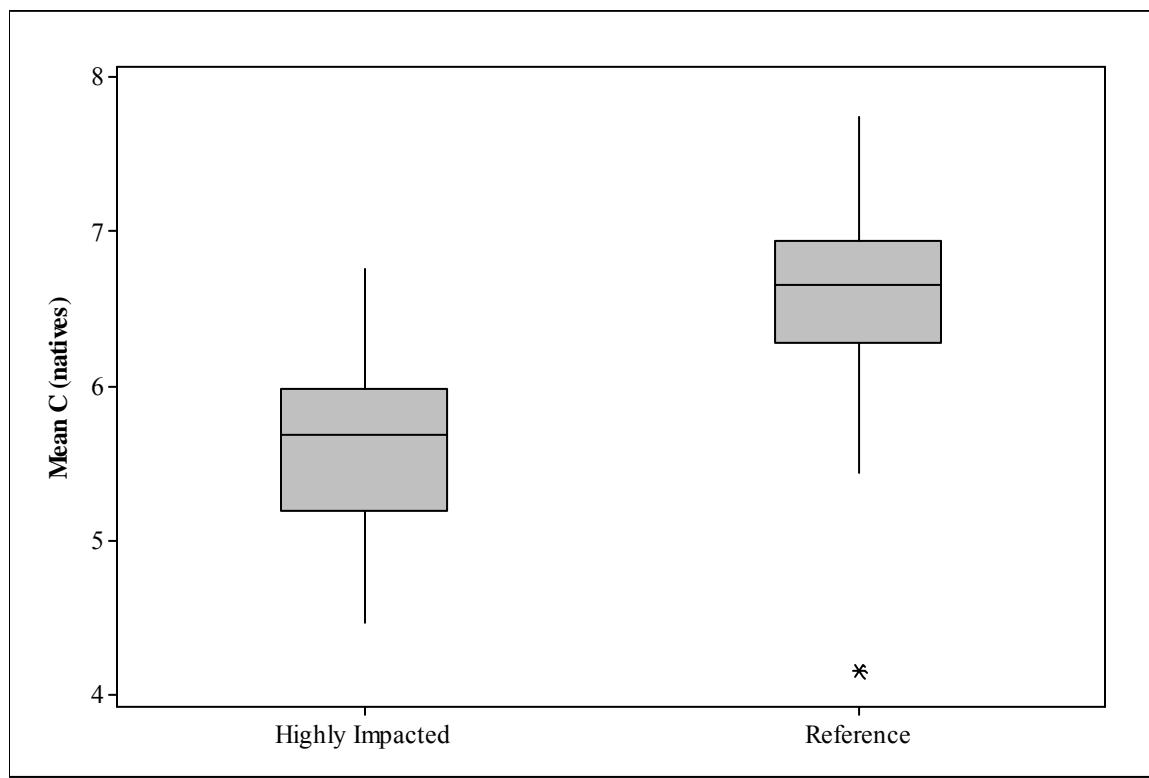
#### 4.3 Field Testing of Floristic Quality Assessment Indices

As mentioned above, 75 plots representing a human disturbance gradient in five Southern Rocky Mountain wet types (e.g. riparian shrublands, fens, extremely rich fens, slope wet meadows, and riverine wet meadows) were sampled. The species observed in this dataset are in Appendix D. The C values associated with each of these species were used in the FQA indice calculations and thus were the only C values field tested for this project. The results of field testing for each of these indices are given below.

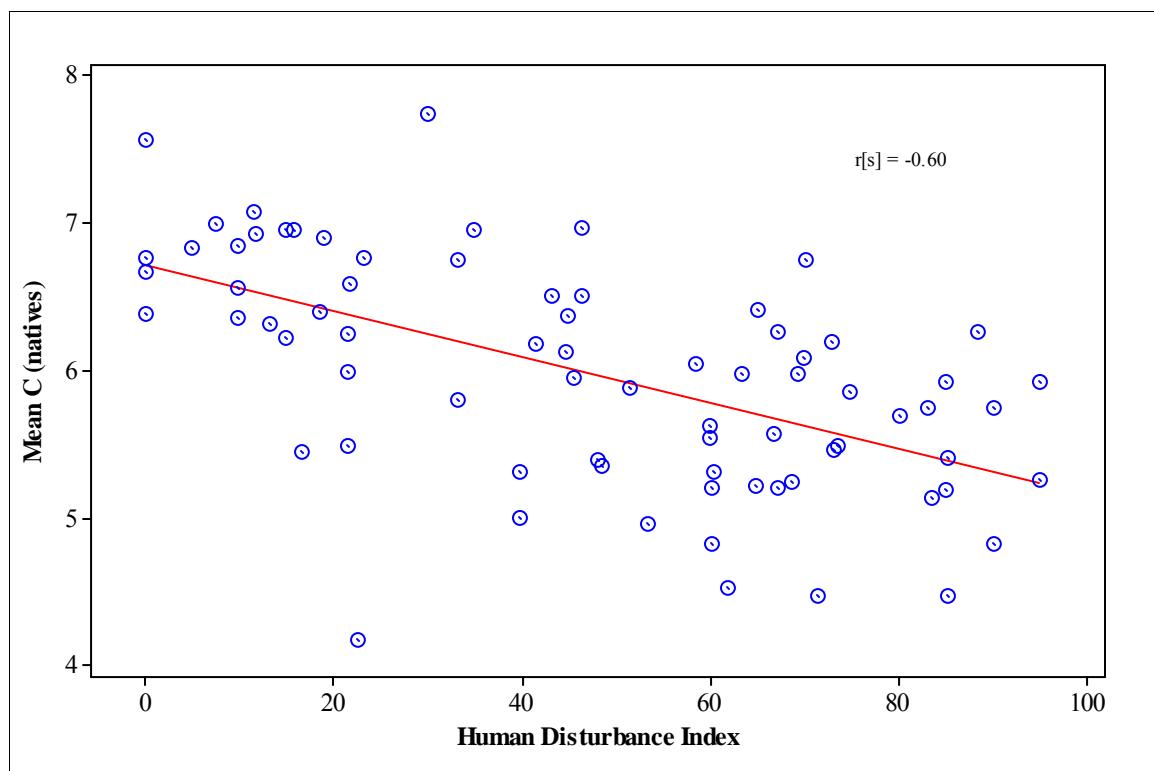
##### 4.3.1 Mean C (natives)

The  $\bar{C}_n$  index showed strong discriminatory power and a strong correlation to the HDI for all ecological systems (and all plots together) except extremely rich fens and riverine wet meadows (Figures 15-18; Table 4). When all plots were analyzed together, Mean C (natives) was clearly able to discriminate between reference condition and highly impacted sites (Figure 15) and showed a strong correlation ( $r[s] = -0.60$ ) to the human disturbance index (Figure 18). The effectiveness of Mean C (natives) for each ecological system type was very strong for fens ( $r[s] =$

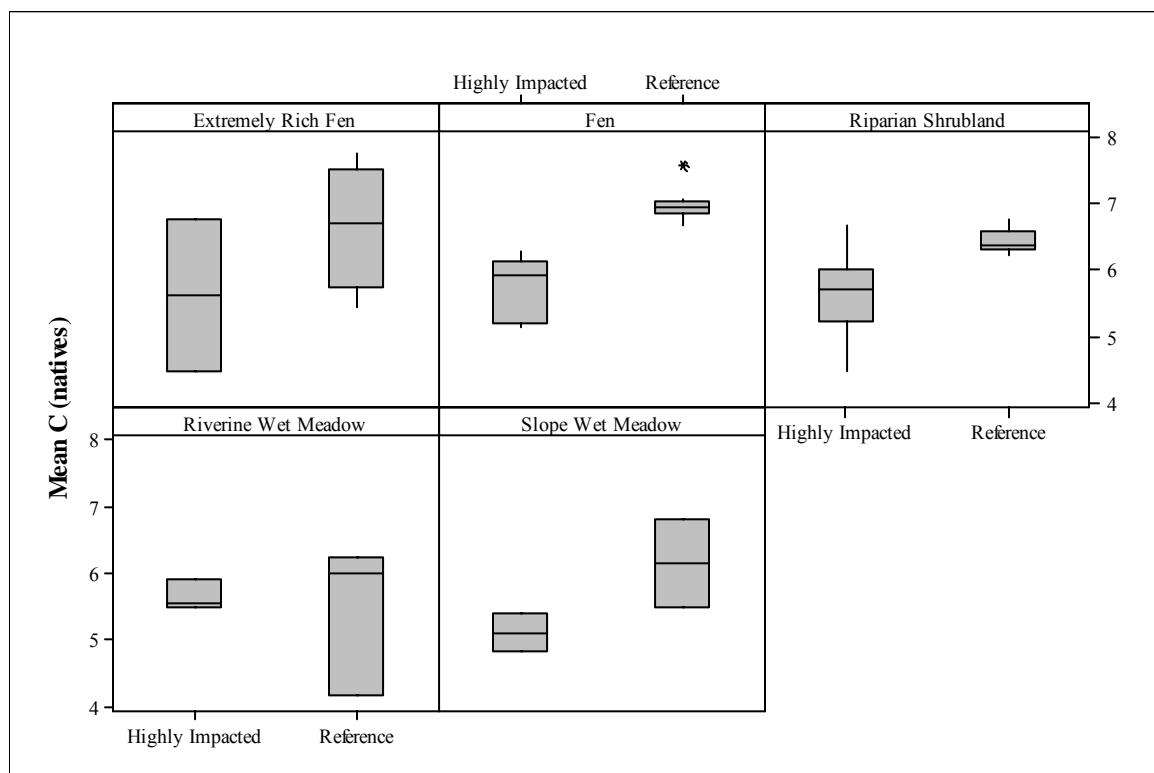
-0.71), riparian shrublands ( $r[s] = -0.70$ ), and slope wet meadows ( $r[s] = -0.56$ ) (Figures 17 & 18). Variability of the index for fens and riparian shrublands increased substantially as human disturbance increased (Figure 16). The index was weakly effective in detecting human disturbance in extremely rich fens (Figures 17 & 18). The scatterplots suggest that  $\bar{C}_n$  is can effectively discriminate reference from highly impacted extremely rich fen sites, but additional data collection is needed to confirm this. Similarly, additional data from reference condition slope wet meadows are needed to determine the effective of the index for that system; however, it was tentatively concluded to be effective (Table 4). The index showed no utility for riverine wet meadows as indicated by the lack of discriminatory power(Figures 17) and correlation (Figure 18) with the HDI.



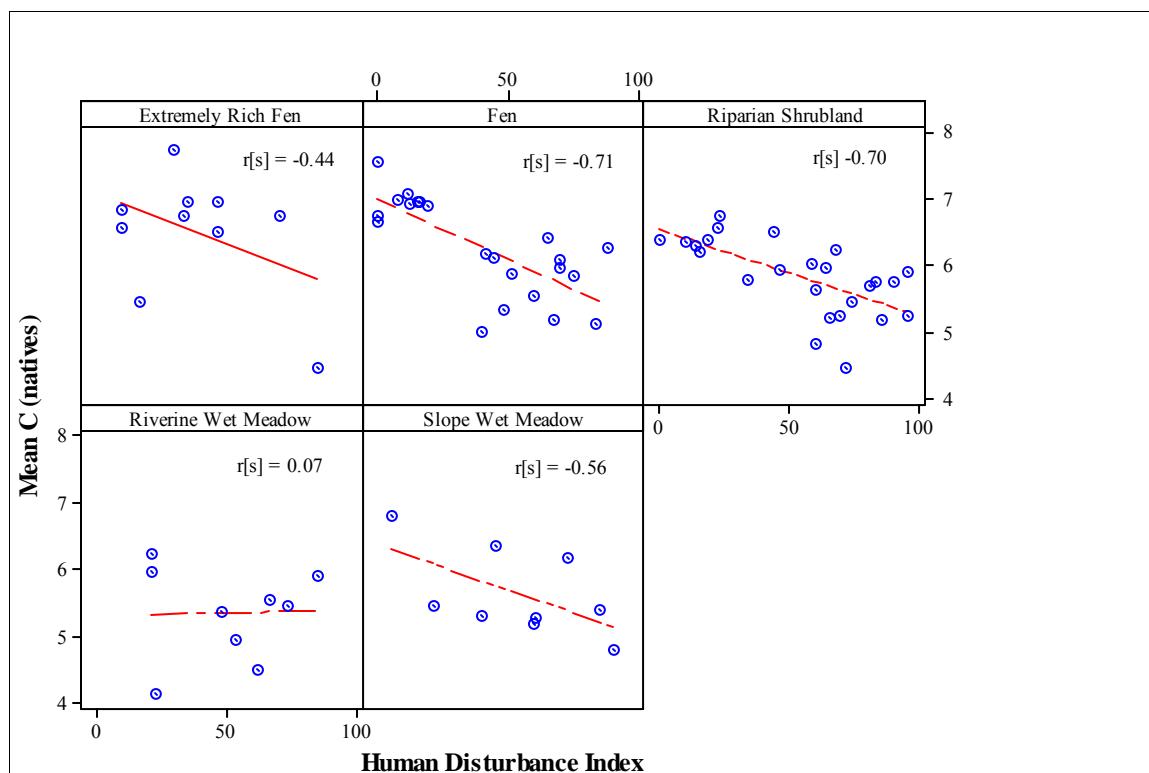
**Figure 15.** Discriminatory Power of Mean C (natives) (All Plots)



**Figure 16.** Spearman's Rank Correlation of Mean C (natives) to Human Disturbance Index (All Plots)



**Figure 17.** Discriminatory Power of Mean C (natives) (Grouped by Ecological System)



**Figure 18.** Spearman's Rank Correlation of Mean C (natives) to Human Disturbance Index (Grouped by Ecological System)

**Table 4.** Effectiveness of Mean C (natives)

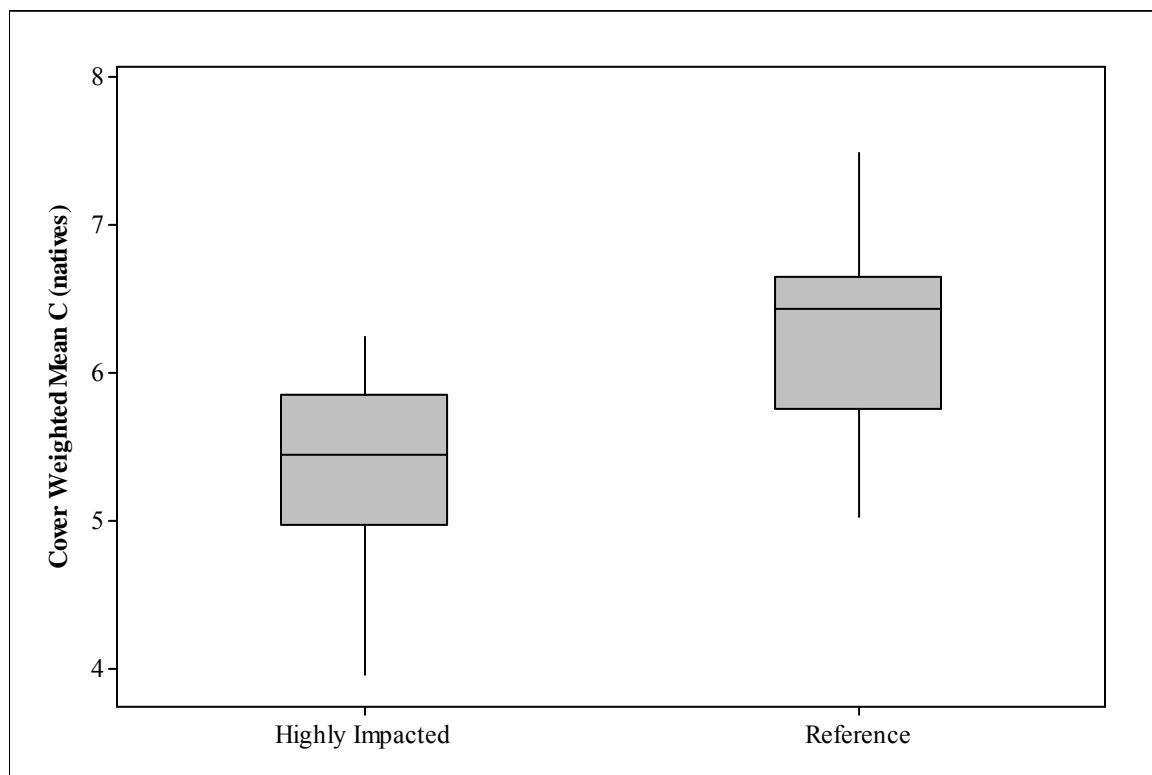
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Strong	-0.56	<b>Strong</b>
Riparian Shrubland	Strong	-0.70	<b>Strong</b>
Fens	Strong	-0.71	<b>Strong</b>
Extremely Rich Fens	Weak	-0.44	Weak
Slope Wet Meadows	Strong	-0.56	<b>Strong</b>
Riverine Wet Meadows	Poor	0.07	Poor

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

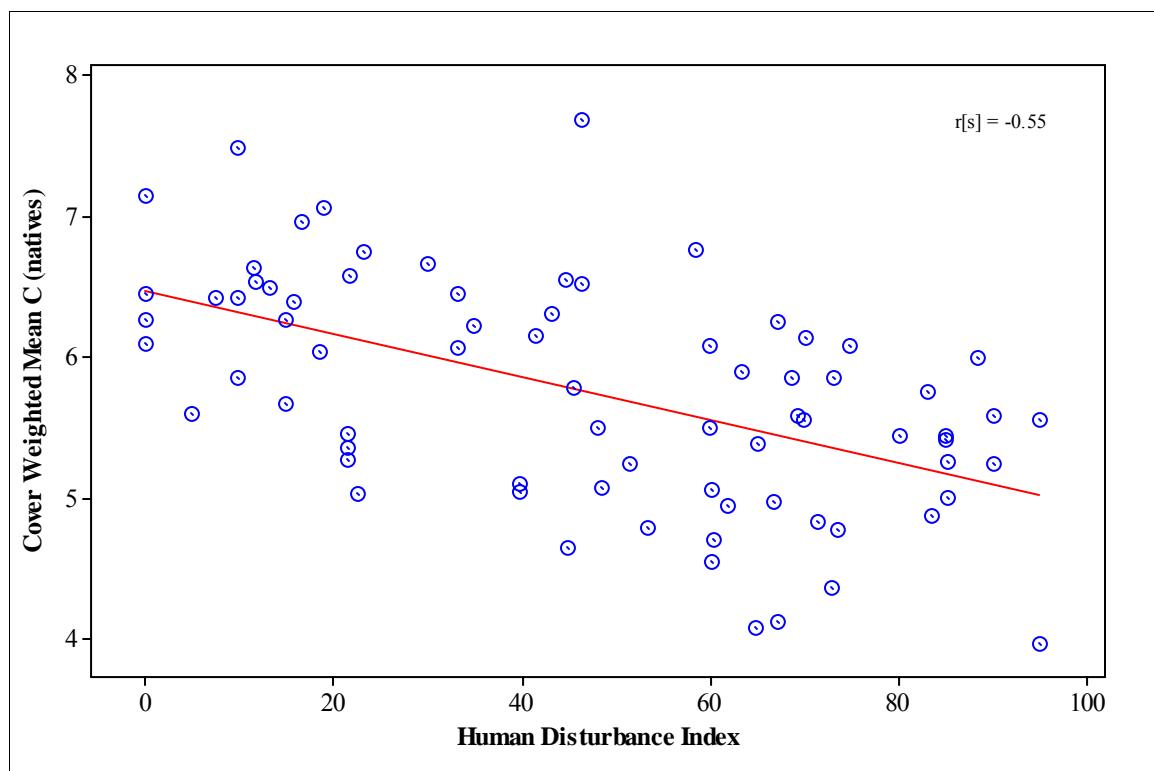
\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.2 Cover Weighted Mean C (natives)

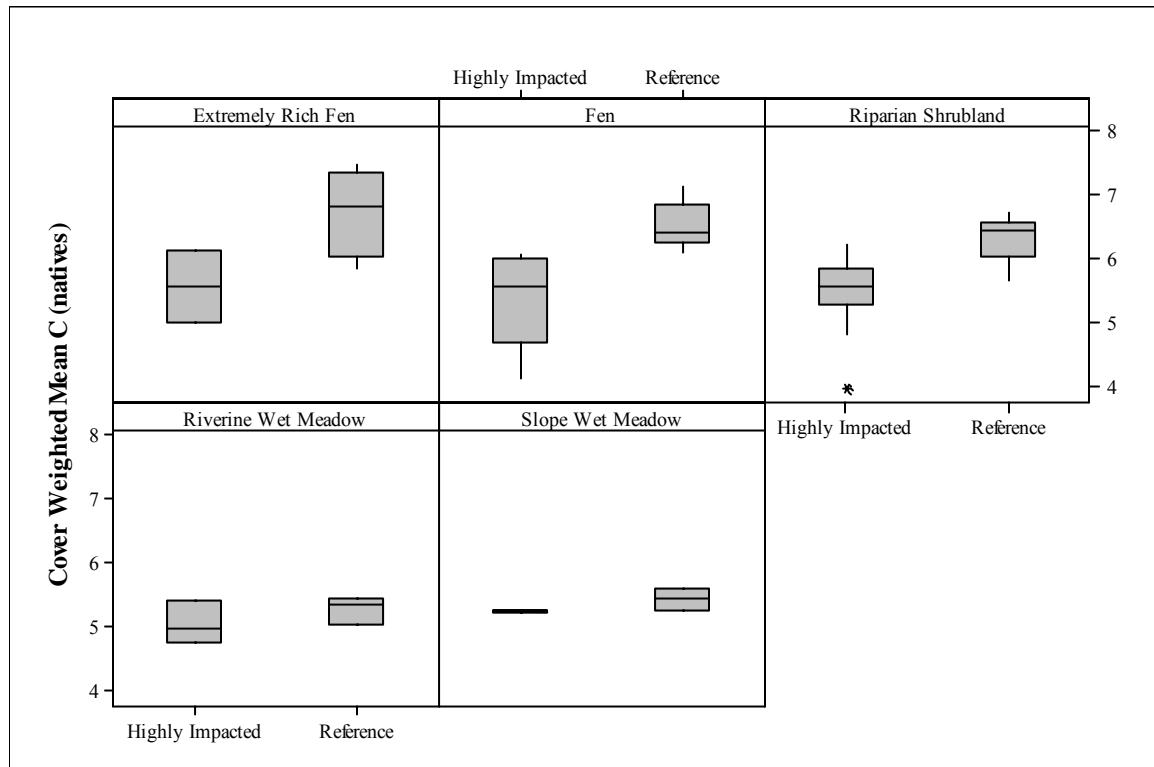
When all plots were analyzed together, the  $\bar{C}_{n\text{ cov}}$  index showed good discriminatory power and a strong correlation ( $r[s] = -0.55$ ) to the Human Disturbance Index (Figures 19 & 20). The effectiveness of the index for each ecological system type was strong for all systems except slope and riverine wet meadows for which the index has little utility (Figures 21 & 22; Table 5). Additional data from highly impacted extremely rich fens are needed to discern how strong the index is for that system (Figure 22). The  $\bar{C}_{n\text{ cov}}$  index only improved the utility of  $\bar{C}_n$  for extremely rich fens and decreased its utility for Slope Wet Meadows (Figures 18 & 22; Table 4 & 5).



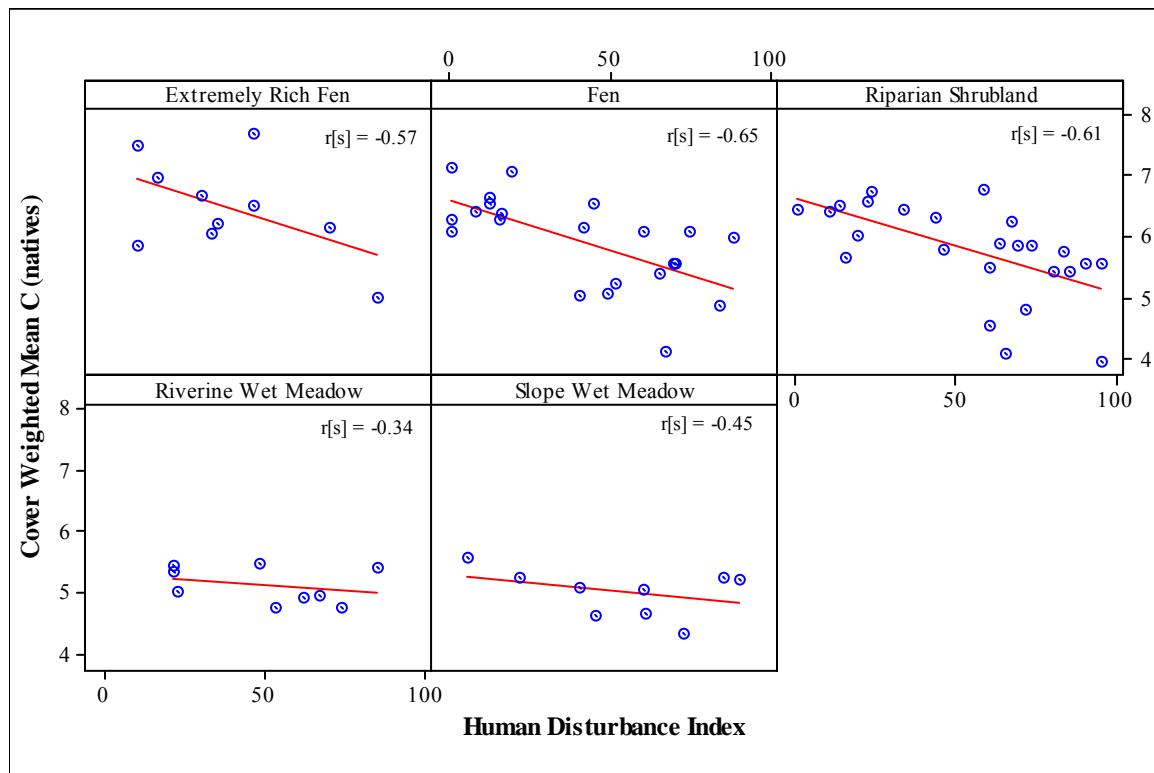
**Figure 19.** Discriminatory Power of Cover Weighted Mean C (natives) (All Plots)



**Figure 20.** Spearman's Rank Correlation of Cover Weighted Mean C (natives) to Human Disturbance Index (All Plots)



**Figure 21.** Discriminatory Power of Cover Weighted Mean C (natives) (Grouped by Ecological System)



**Figure 22.** Spearman's Rank Correlation of Cover Weighted Mean C (natives) to Human Disturbance Index (Grouped by Ecological System)

**Table 5.** Effectiveness of Cover Weighted Mean C (natives)

Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Good	-0.55	<b>Strong</b>
Riparian Shrubland	Strong	-0.61	<b>Strong</b>
Fens	Strong	-0.65	<b>Strong</b>
Extremely Rich Fens	Good	-0.57	<b>Strong</b>
Slope Wet Meadows	Strong	-0.45	Weak
Riverine Wet Meadows	Weak	-0.34	Weak

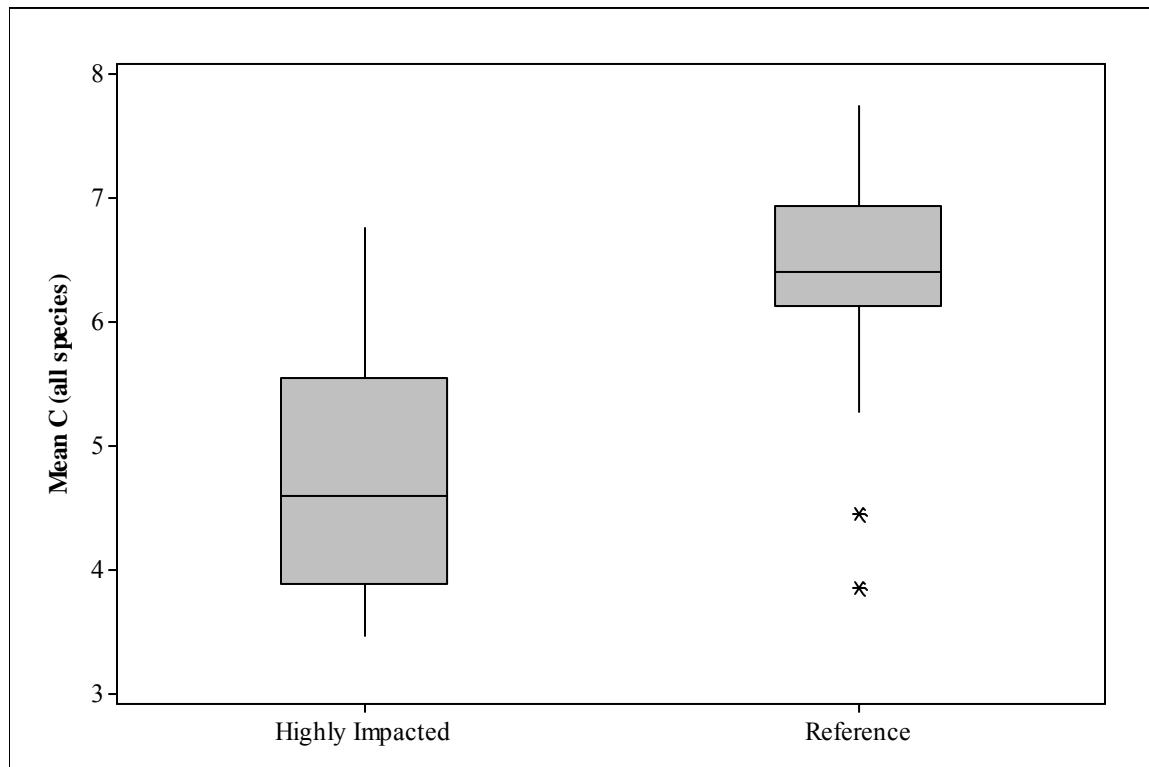
\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

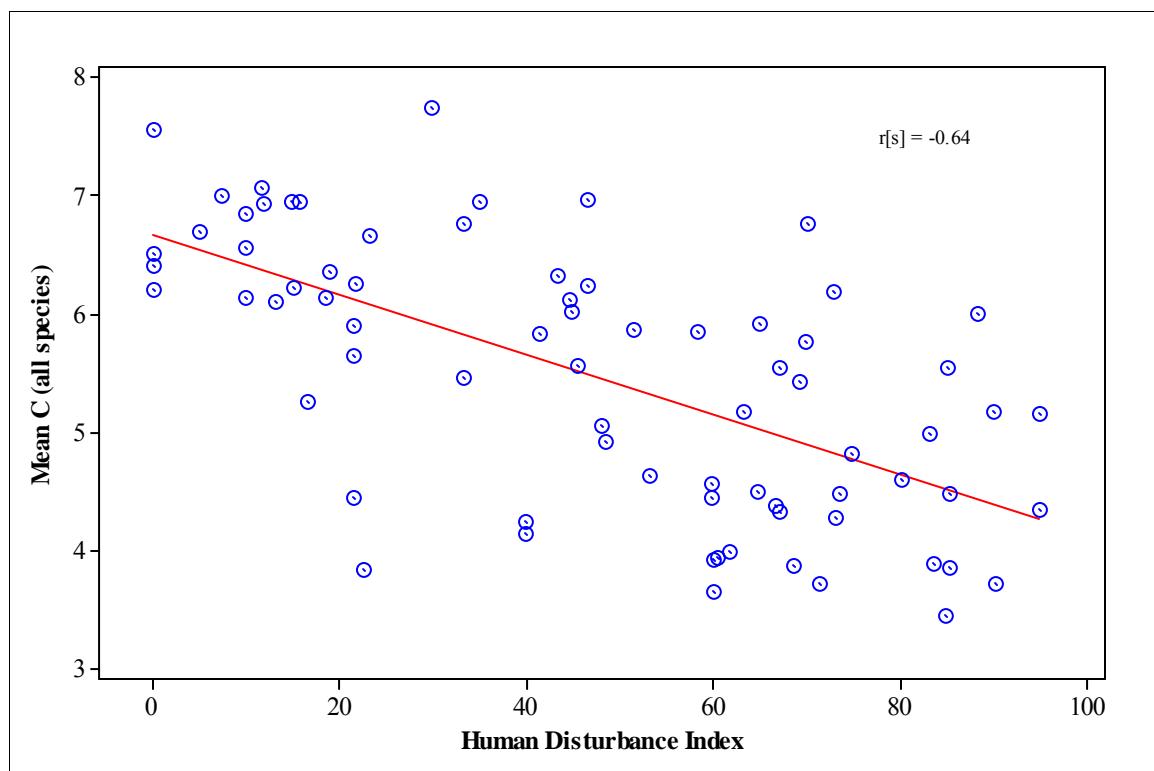
#### 4.3.3 Mean C (all species)

When all plots were analyzed together,  $\bar{C}_{all}$  index was clearly able to discriminate between reference condition and highly impacted sites (Figure 23) and showed a strong correlation ( $r[s] = -0.64$ ) to the HDI (Figure 24). Variability of the index increased when the human disturbance index increased beyond a score of approximately 15 (Figure 24). The effectiveness of the index was very strong for fens ( $r[s] = -0.76$ ) and riparian shrublands ( $r[s] = -0.76$ ) (Figures 25 & 26; Table 6). The index was weakly effective in detecting human disturbance in extremely rich fens and slope wet meadows (Figures 25 & 26; Table 6). Additional data collection from highly impacted extremely rich fens and reference slope wet meadows is needed to determine whether this index is useful for these ecological systems. The index showed no utility for riverine wet meadows, although one reference condition “outlier” may be driving this conclusion (Figures 25 & 26).

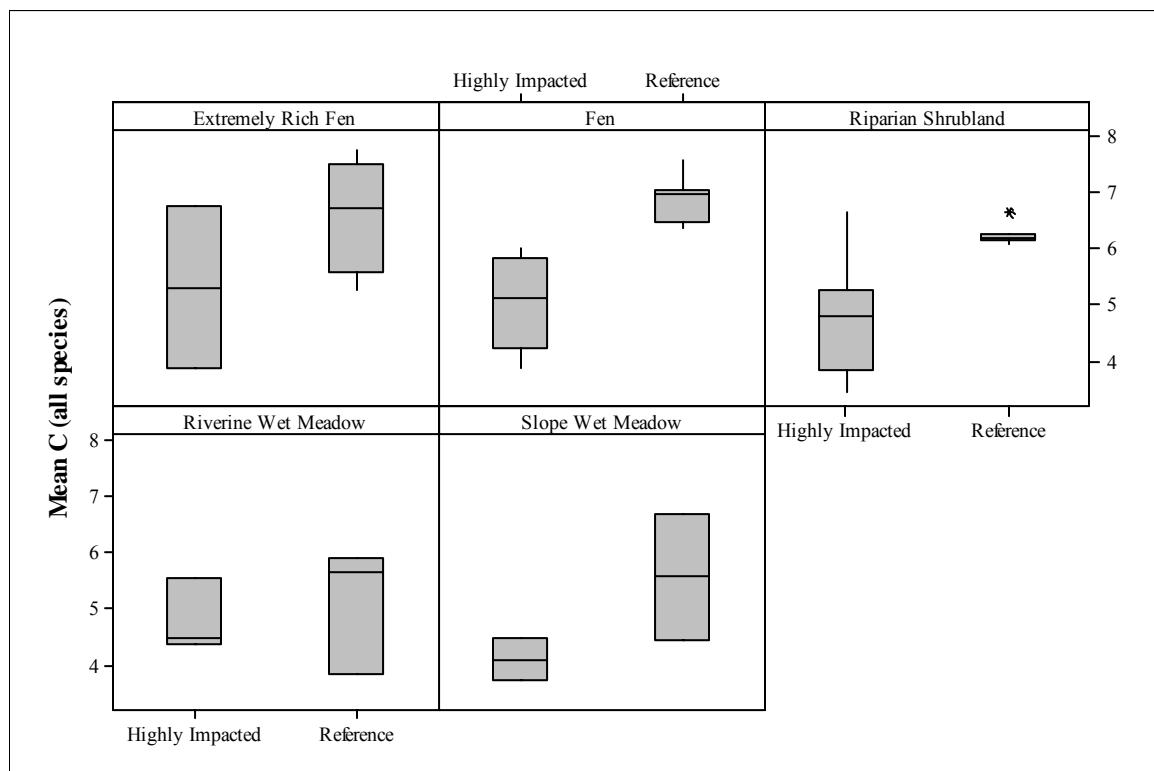
The inclusion of non-native species into the calculation of this index appears to have slightly increased effectiveness in detecting human disturbance relative to the  $\bar{C}_n$  index (Tables 4 & 6), except for slope wet meadows, which showed a decrease (Table 4).



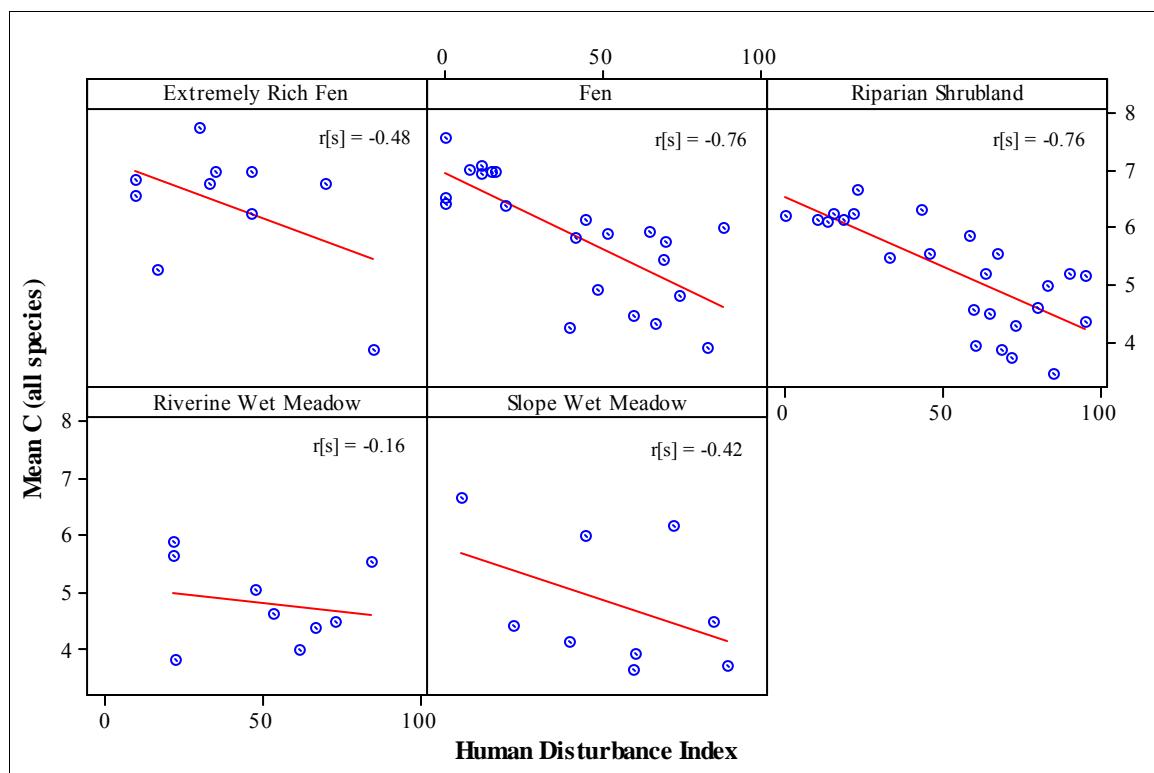
**Figure 23.** Discriminatory Power of Mean C (all species) (All Plots)



**Figure 24.** Spearman's Rank Correlation of Mean C (all species) to Human Disturbance Index (All Plots)



**Figure 25.** Discriminatory Power of Mean C (all species) (Grouped by Ecological System)



**Figure 26.** Spearman's Rank Correlation of Mean C (all species) to Human Disturbance Index (Grouped by Ecological System)

**Table 6.** Effectiveness of Mean C (all species)

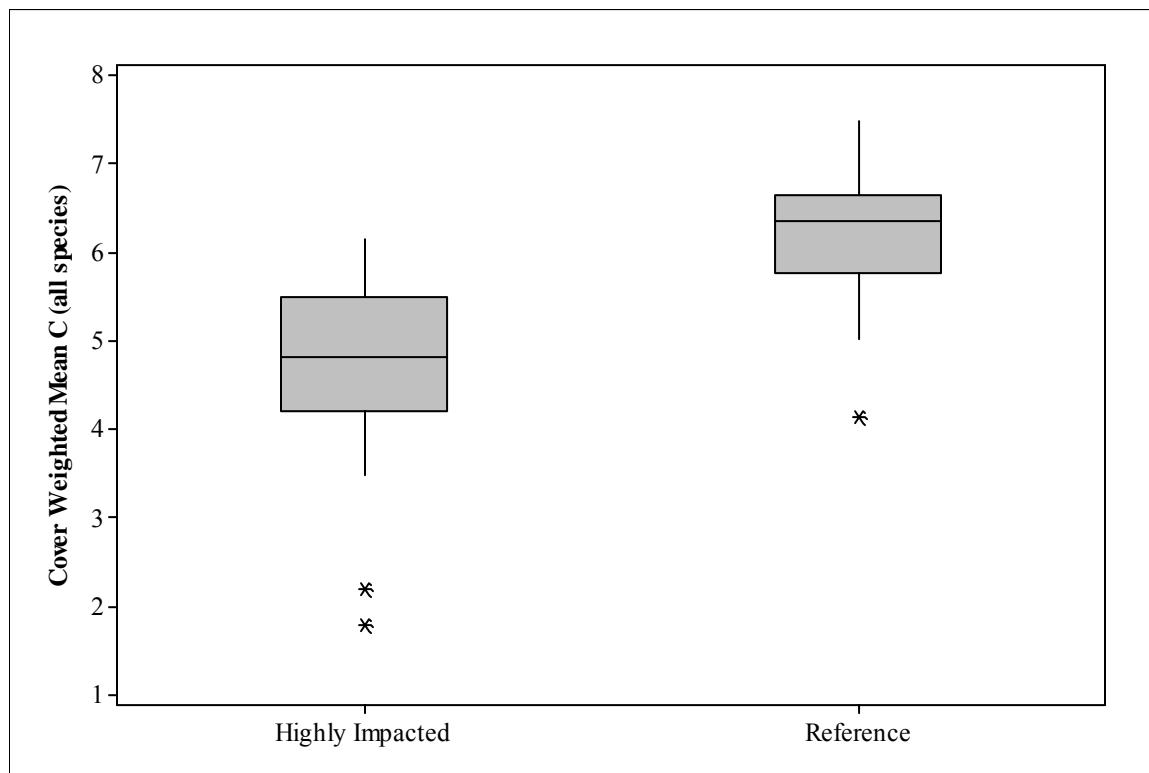
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Strong	-0.60	<b>Strong</b>
Riparian Shrubland	Strong	-0.76	<b>Strong</b>
Fens	Strong	-0.76	<b>Strong</b>
Extremely Rich Fens	Weak	-0.48	Weak
Slope Wet Meadows	Good	-0.42	Weak
Riverine Wet Meadows	Poor	-0.16	Poor

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

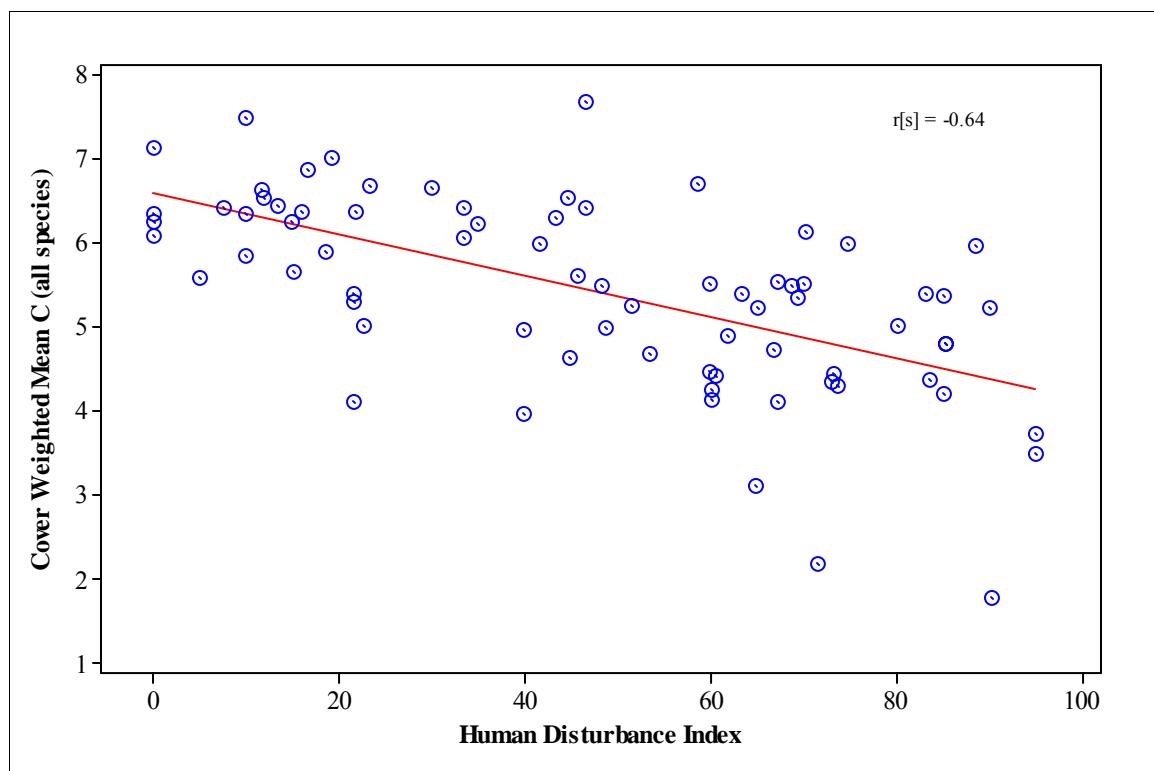
\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.4 Cover Weighted Mean C (all species)

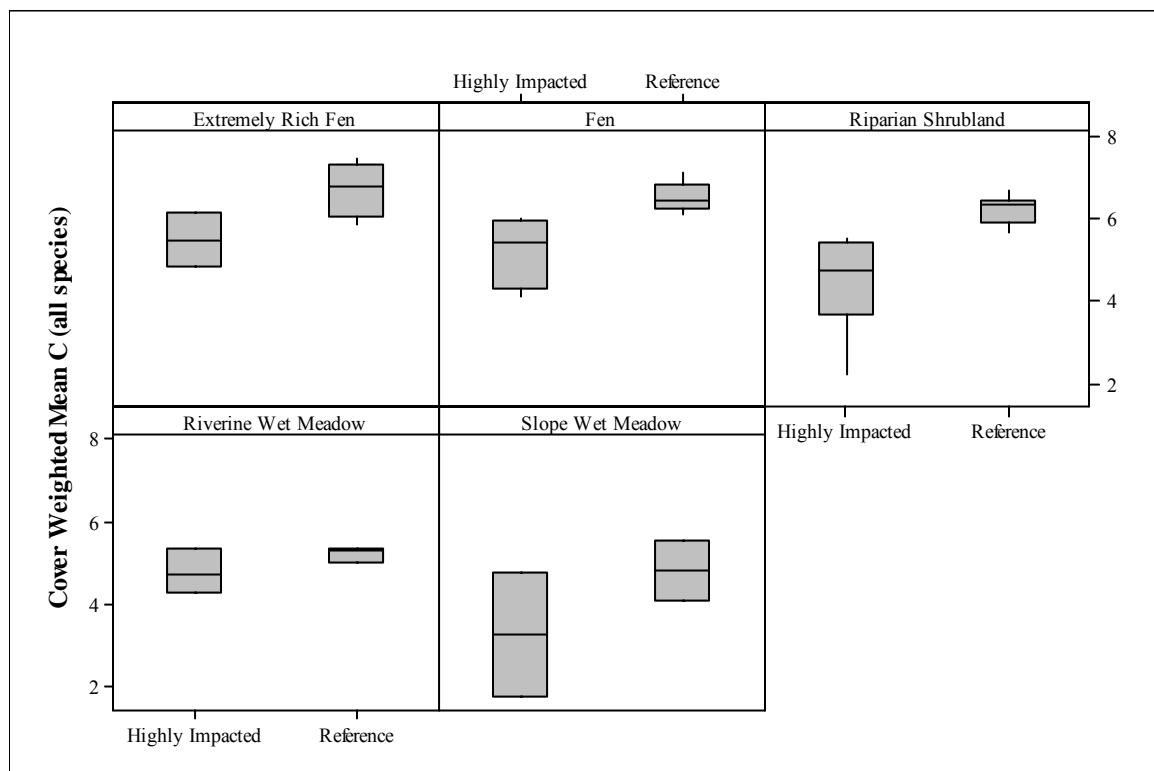
When all plots were analyzed together,  $\bar{C}_{all\ cov}$  index showed strong discriminatory power and correlation ( $r[s] = -0.64$ ) to the HDI (Figures 27 & 28). The effectiveness of the index was strong for all ecological systems except slope and riverine wet meadows for which the index showed weak efficacy (Figures 29 & 30; Table 7). Relative to the  $\bar{C}_{all}$  index, this index showed improvement in correlation to the HDI for all systems except fens, which showed a decrease (Figures 26 and 30). Although the index showed good discriminatory power and a promising correlation to the HDI, inspection of the scatterplot (Figure 30) shows that this is mostly driven by reference and highly impacted outlier plots. Additional data is needed from slope wet meadows to more accurately assess its effectiveness for this system. Relative to the  $\bar{C}_{n\ cov}$  index, this index showed improvement in the correlation with the HDI for all ecological systems but resulted in the same efficacy for each system (Table 54 & 7). Compared to the  $\bar{C}_{n\ cov}$  index, this index showed lower values in highly disturbed sites (Figures 20 & 28).



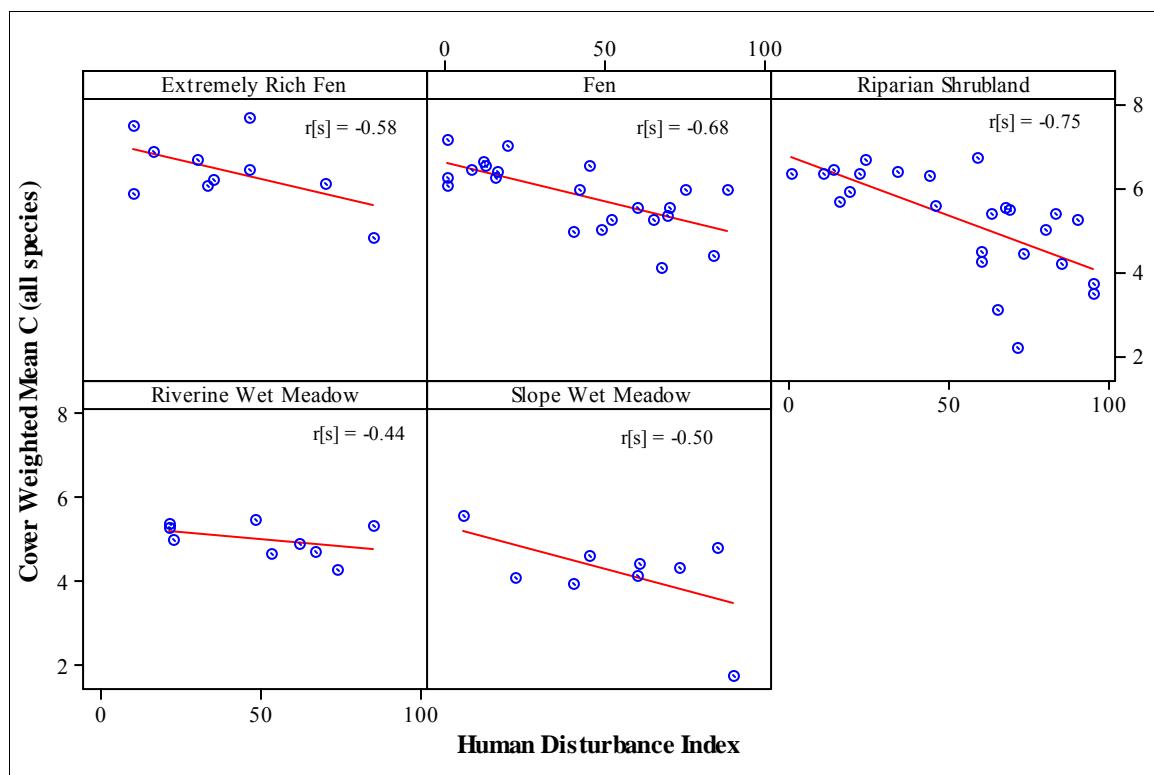
**Figure 27.** Discriminatory Power of Cover Weighted Mean C (all species) (All Plots)



**Figure 28.** Spearman's Rank Correlation of Cover Weighted Mean C (all species) to Human Disturbance Index (All Plots)



**Figure 29.** Discriminatory Power of Cover Weighted Mean C (all species) (Grouped by Ecological System)



**Figure 30.** Spearman's Rank Correlation of Cover Weighted Mean C (all species) to Human Disturbance Index (Grouped by Ecological System)

**Table 7.** Effectiveness of Cover Weighted Mean C (all species)

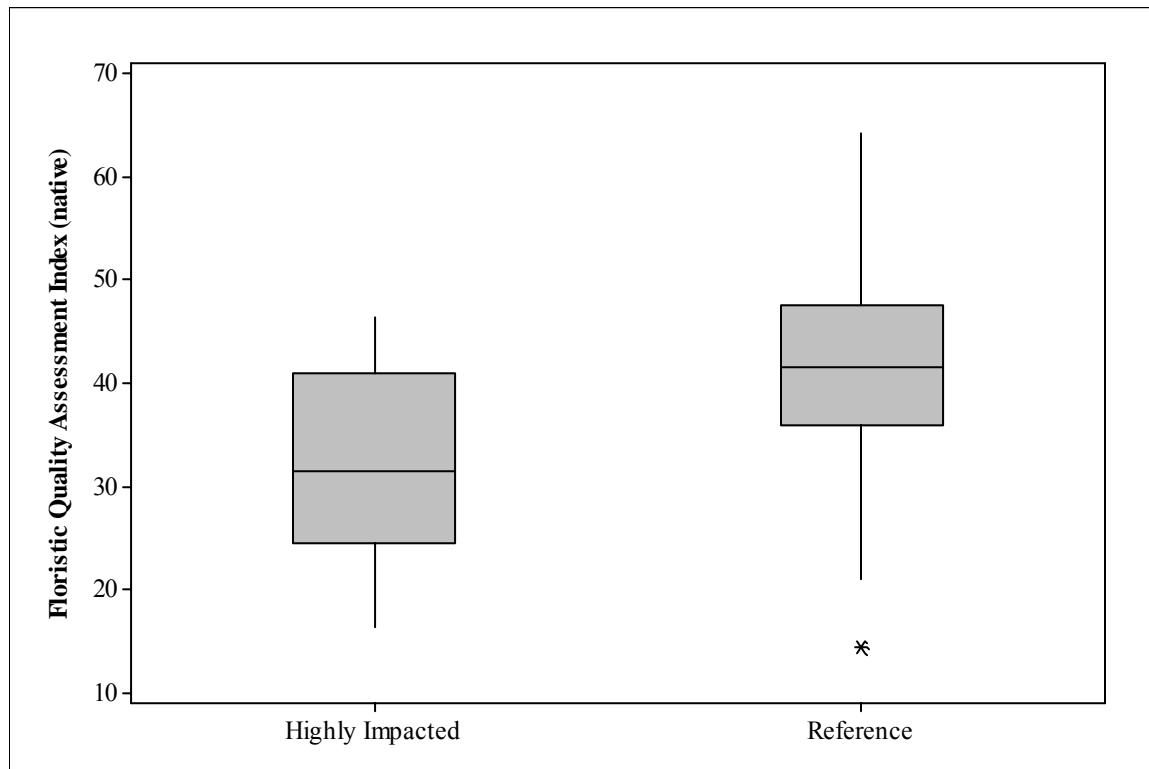
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Strong	-0.64	<b>Strong</b>
Riparian Shrubland	Strong	-0.75	<b>Strong</b>
Fens	Strong	-0.68	<b>Strong</b>
Extremely Rich Fens	Good	-0.58	<b>Strong</b>
Slope Wet Meadows	Good	-0.50	Weak
Riverine Wet Meadows	Weak	-0.44	Weak

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

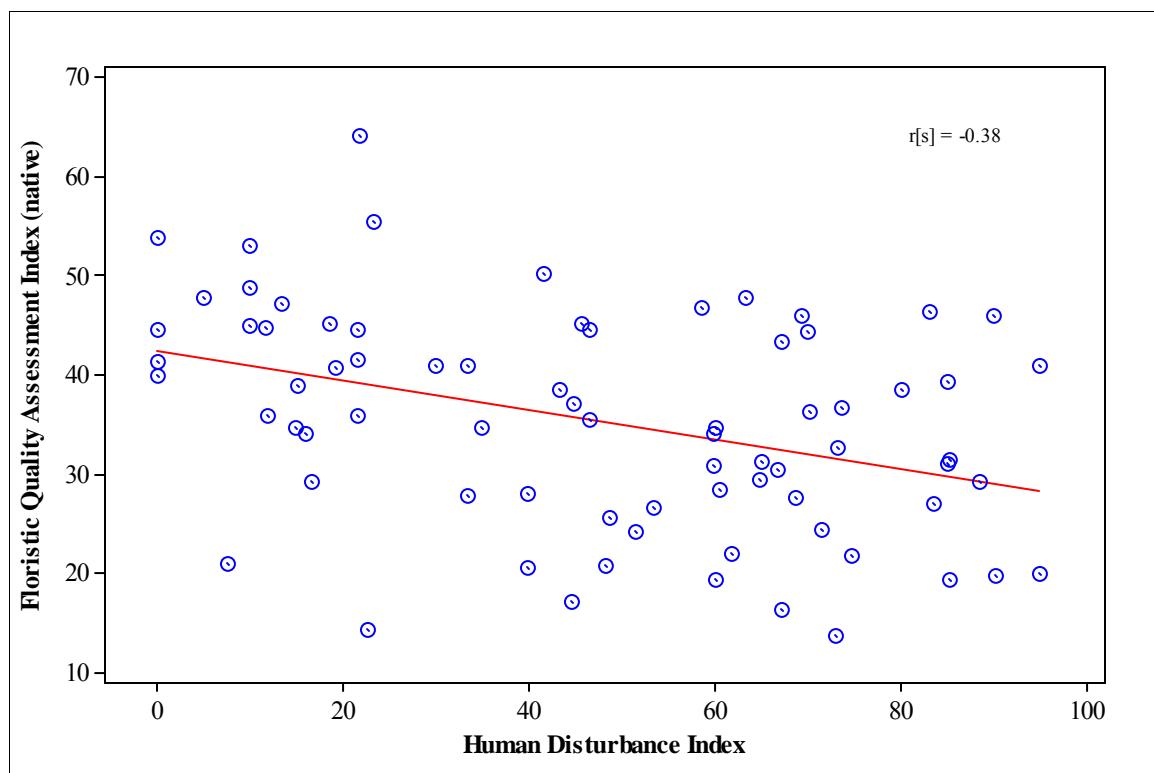
\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.5 Floristic Quality Index (natives)

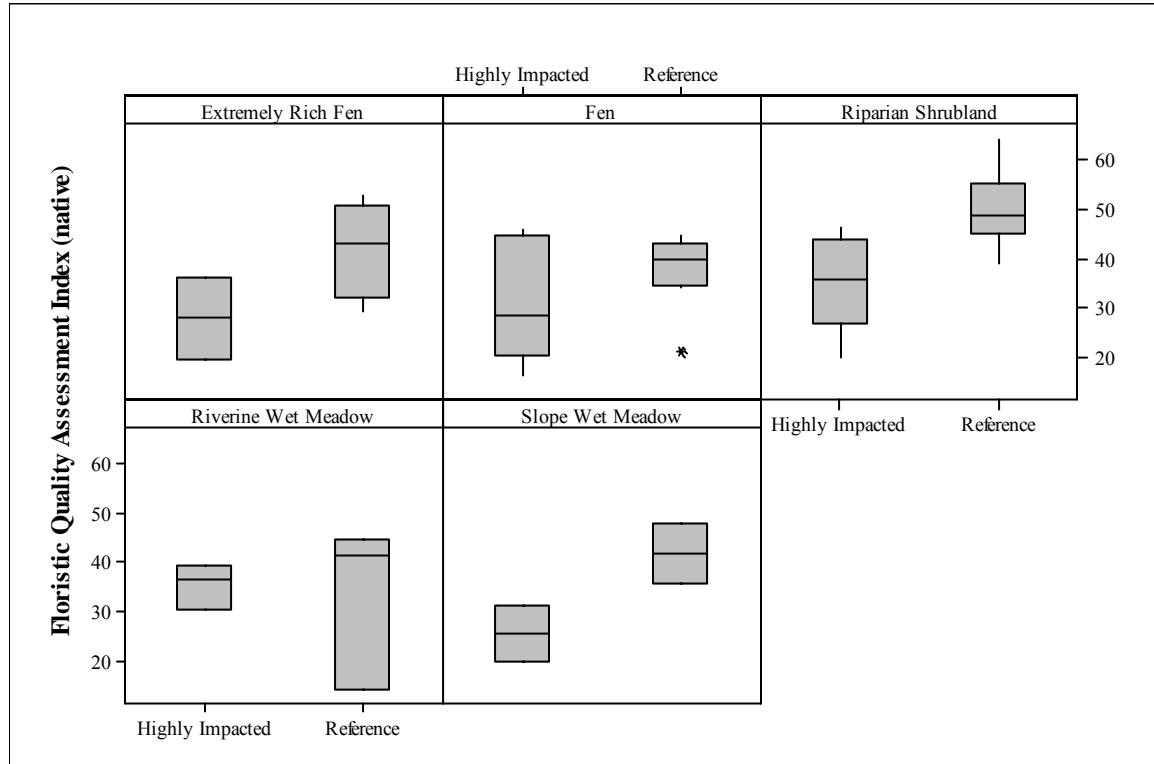
When all plots were analyzed together, the  $FQI_n$  index showed good discriminatory power and a weak correlation ( $r[s] = -0.38$ ) to the HDI and thus was determined to have weak efficacy in discriminating sites with varying degrees of human disturbance (Figures 31 & 32; Table 8). The effectiveness of the  $FQI_n$  was strong for riparian shrublands ( $r[s] = -0.52$ ), extremely rich fens ( $r[s] = -0.60$ ), and slope wet meadows ( $r[s] = -0.75$ ) but poor for fens and riverine wet meadows (Figures 33 & 34; Table 8). Relative to the Mean C-based indices, the  $FQI_n$  is a stronger index for extremely rich fens and slope wet meadows.



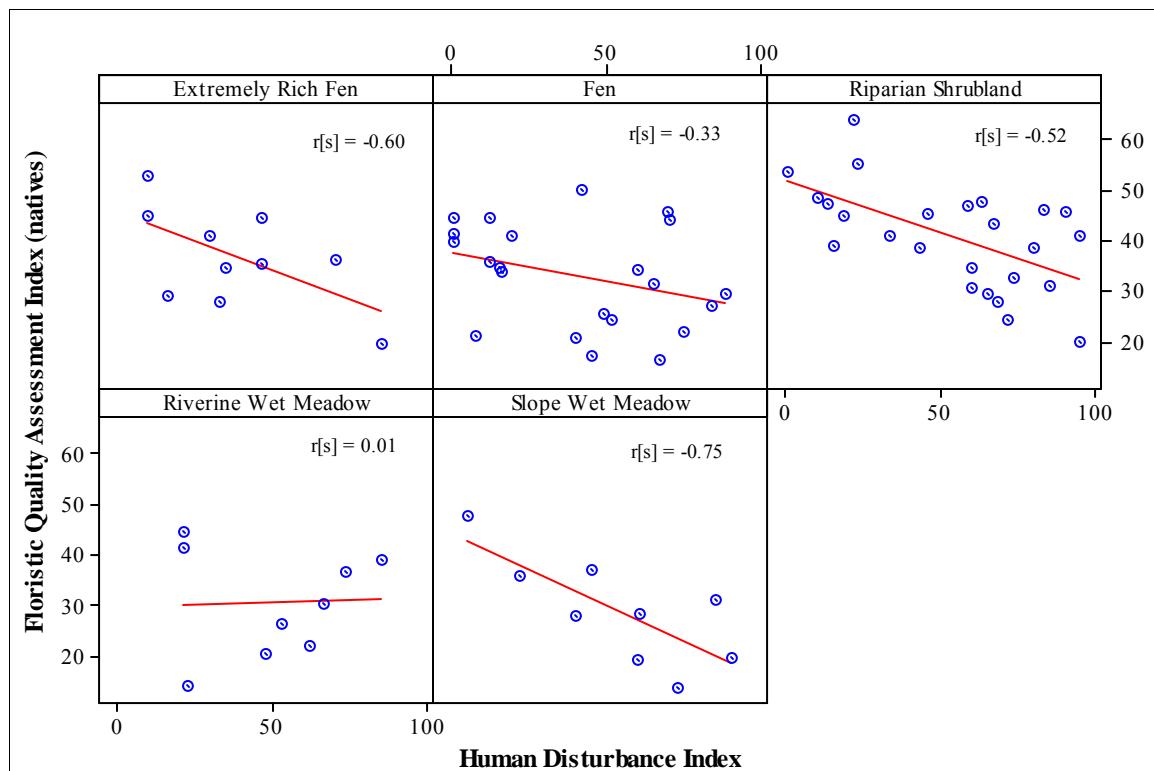
**Figure 31.** Discriminatory Power of Floristic Quality Assessment Index (natives) (All Plots)



**Figure 32.** Spearman's Rank Correlation of Floristic Quality Assessment Index (natives) to Human Disturbance Index (All Plots)



**Figure 33.** Discriminatory Power of Floristic Quality Assessment Index (natives) (Grouped by Ecological System)



**Figure 34.** Spearman's Rank Correlation of Floristic Quality Assessment Index (natives) to Human Disturbance Index (Grouped by Ecological System)

**Table 8.** Effectiveness of Floristic Quality Assessment Index (natives)

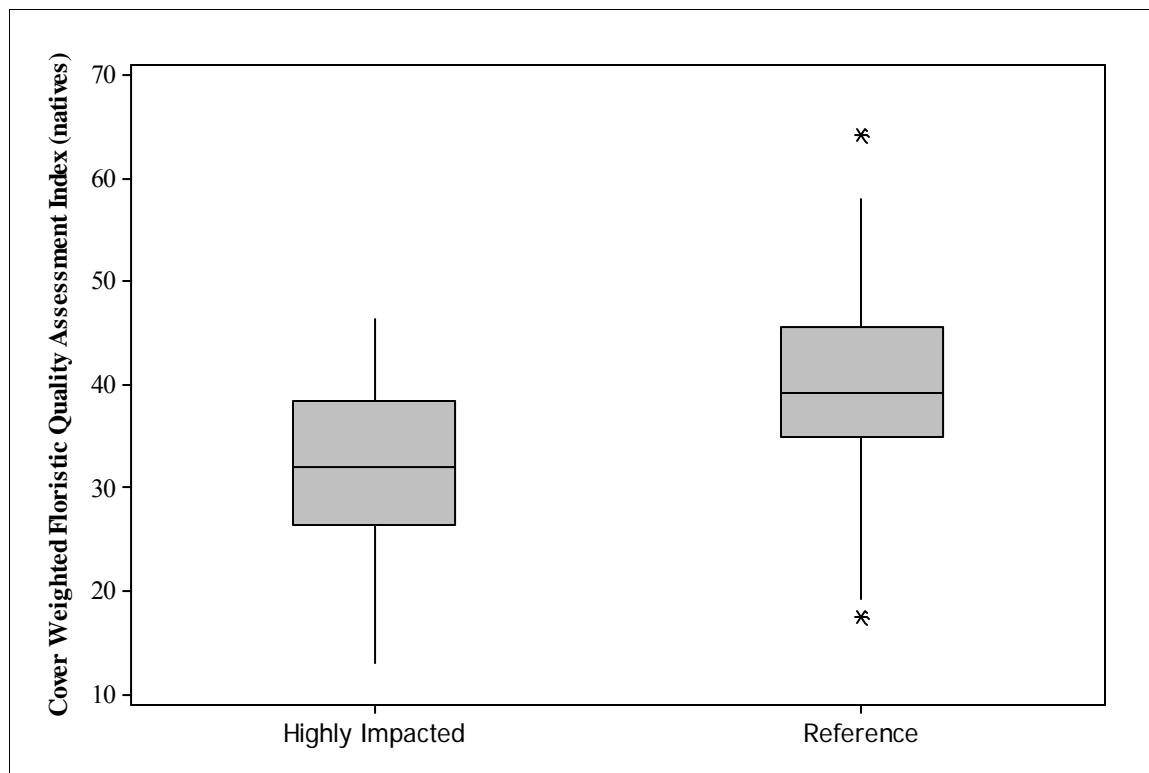
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Good	-0.38	Weak
Riparian Shrubland	Strong	-0.52	<b>Strong</b>
Fens	Poor	-0.33	Poor
Extremely Rich Fens	Good	-0.60	<b>Strong</b>
Slope Wet Meadows	Strong	-0.75	<b>Strong</b>
Riverine Wet Meadows	Poor	0.01	Poor

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

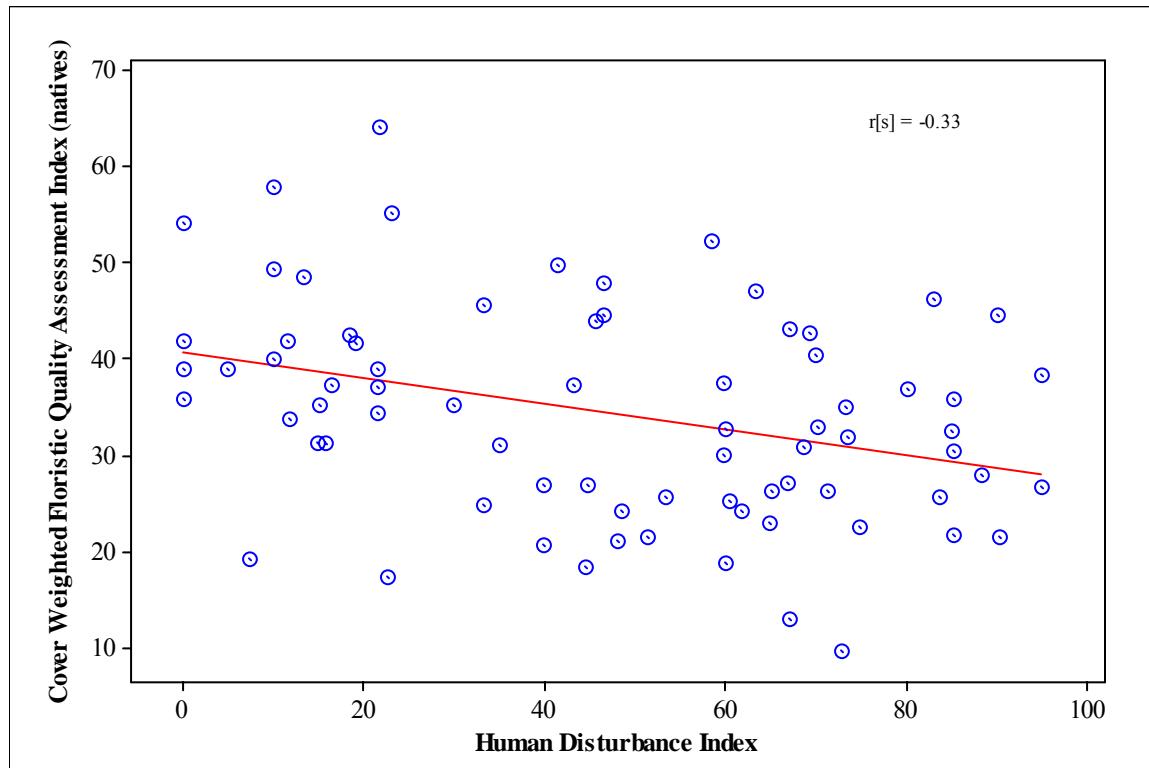
\*\* Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.6 Cover Weighted Floristic Quality Assessment Index (natives)

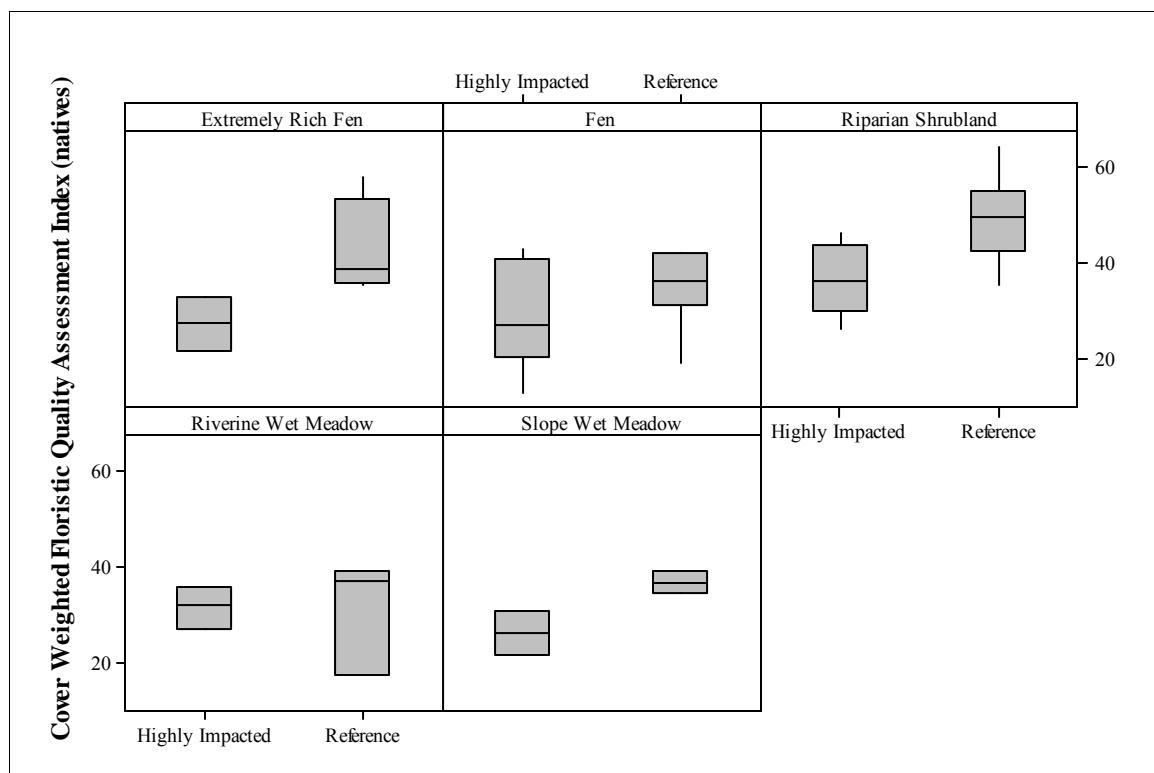
When all plots were analyzed together, the  $FQI_{n\ cov}$  index showed good discriminatory power and weak correlation ( $r[s] = -0.33$ ) to the HDI and thus was determined to have weak efficacy in discriminating sites with varying degrees of human disturbance (Figures 35 & 36; Table 9). This index was less effective than the  $FQI_n$  index in detecting degradation from human disturbance (Figures 31, 32, 35, and 36) indicating the cover values did not add useful information to the index.



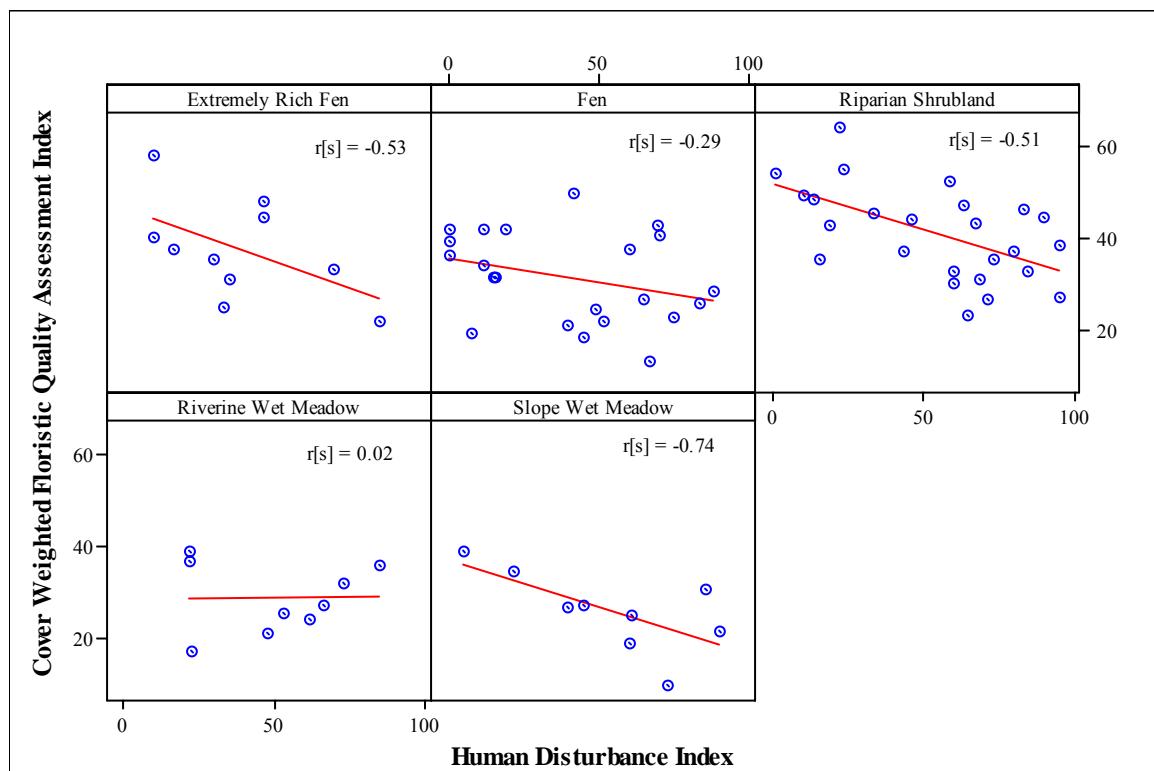
**Figure 35.** Discriminatory Power of Cover Weighted Floristic Quality Assessment Index (natives) (All Plots)



**Figure 36.** Spearman's Rank Correlation of Cover Weighted Floristic Quality Assessment Index (natives) to Human Disturbance Index (All Plots)



**Figure 37.** Discriminatory Power of Cover Weighted Floristic Quality Assessment Index (natives) (Grouped by Ecological System)



**Figure 38.** Spearman's Rank Correlation of Cover Weighted Floristic Quality Assessment Index (natives) to Human Disturbance Index (Grouped by Ecological System)

**Table 9.** Effectiveness of Cover Weighted Floristic Quality Assessment Index (natives)

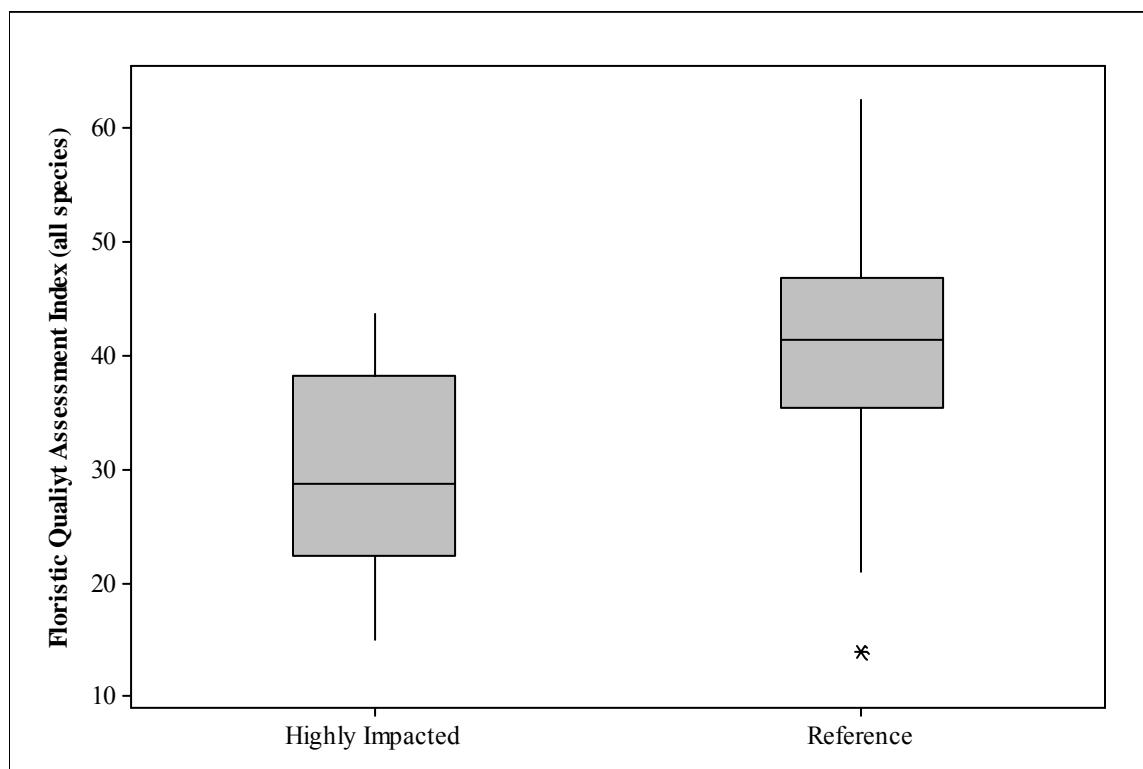
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Good	-0.33	Weak
Riparian Shrubland	Good	-0.51	<b>Strong</b>
Fens	Weak	-0.29	Poor
Extremely Rich Fens	Strong	-0.53	<b>Strong</b>
Slope Wet Meadows	Strong	-0.74	<b>Strong</b>
Riverine Wet Meadows	Poor	0.02	Poor

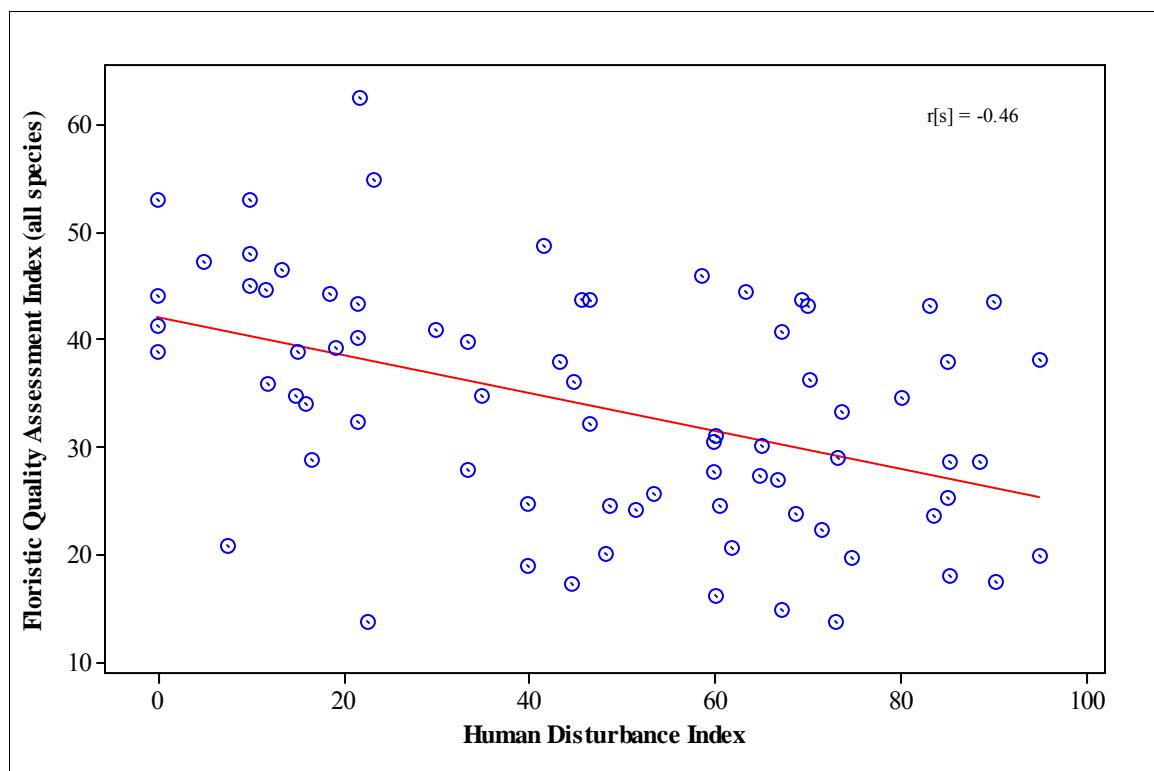
\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

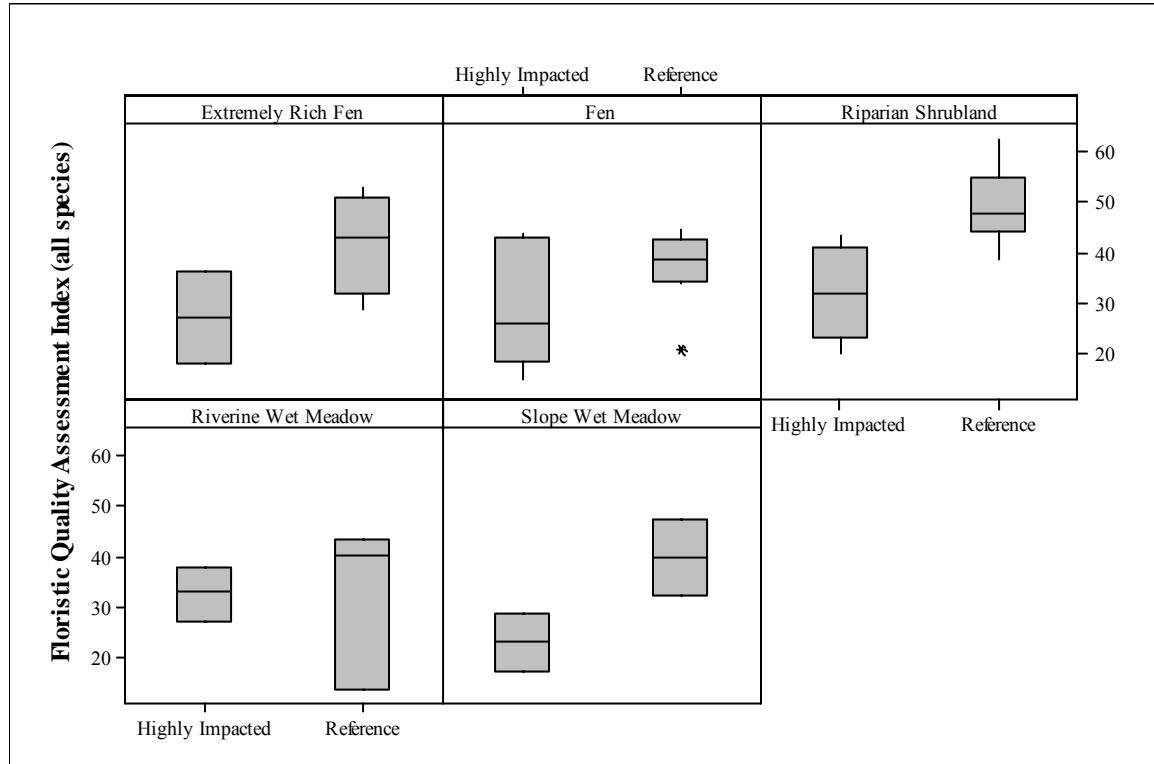
#### 4.3.7 Floristic Quality Assessment Index (all species)

When all plots were analyzed together, the  $FQI_{all}$  index was able to discriminate between reference condition and highly impacted sites (Figure 39) but had a weak correlation ( $r[s] = -0.46$ ) to the HDI (Figure 40). Overall, the efficacy of the index for all plots compiled was weak (Table 10). The effectiveness of the  $FQI_{all}$  was strong for riparian shrublands ( $r[s] = -0.61$ ), extremely rich fens ( $r[s] = -0.64$ ), and slope wet meadows ( $r[s] = -0.71$ ; Figures 39 & 40; Table 10). The index poorly detected human disturbance in fens and riverine wet meadows (Figures 41 & 42; Table 9). The inclusion of non-native species into the calculation of this index appears to have slightly increased effectiveness in detecting human disturbance for those systems in which the index was effective (Tables 9 & 10).

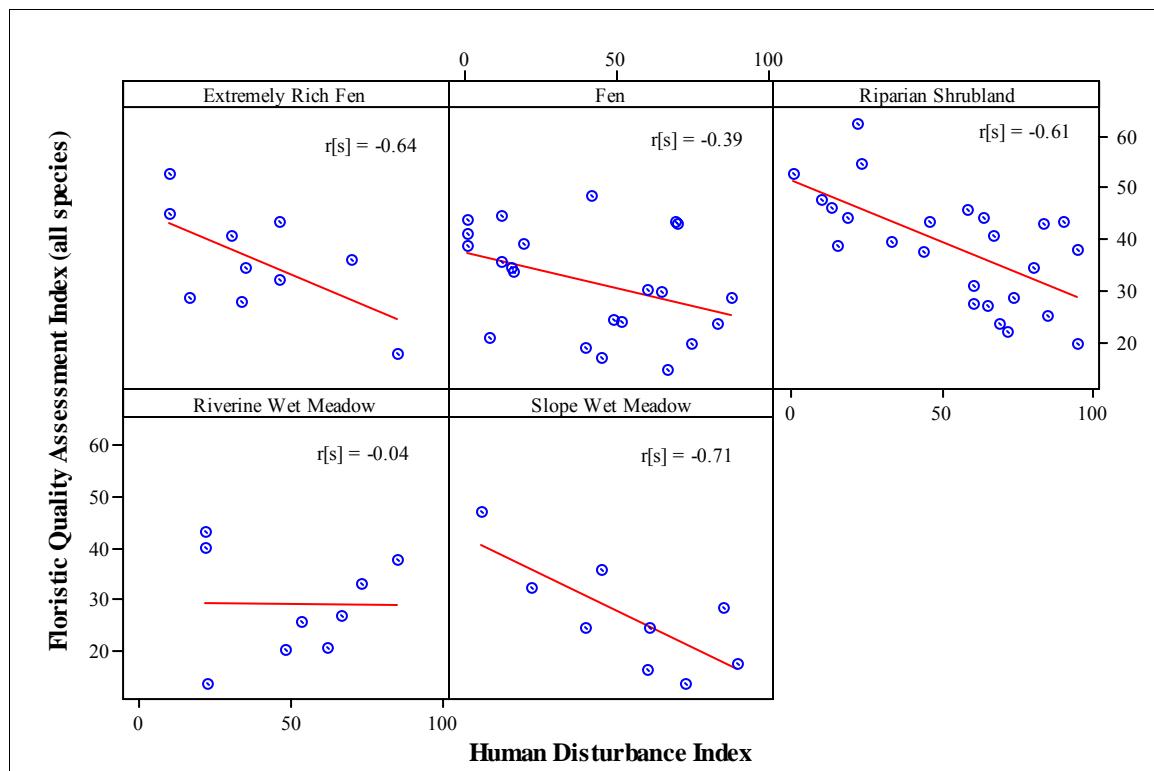
**Figure 39.** Discriminatory Power of Floristic Quality Assessment Index (all species) (All Plots)



**Figure 40.** Spearman's Rank Correlation of Floristic Quality Assessment Index (all species) to Human Disturbance Index (All Plots)



**Figure 41.** Discriminatory Power of Floristic Quality Assessment Index (all species) (Grouped by Ecological System)



**Figure 42.** Spearman's Rank Correlation of Floristic Quality Assessment Index (all species) to Human Disturbance Index (Grouped by Ecological System)

**Table 10.** Effectiveness of Floristic Quality Assessment Index (all species)

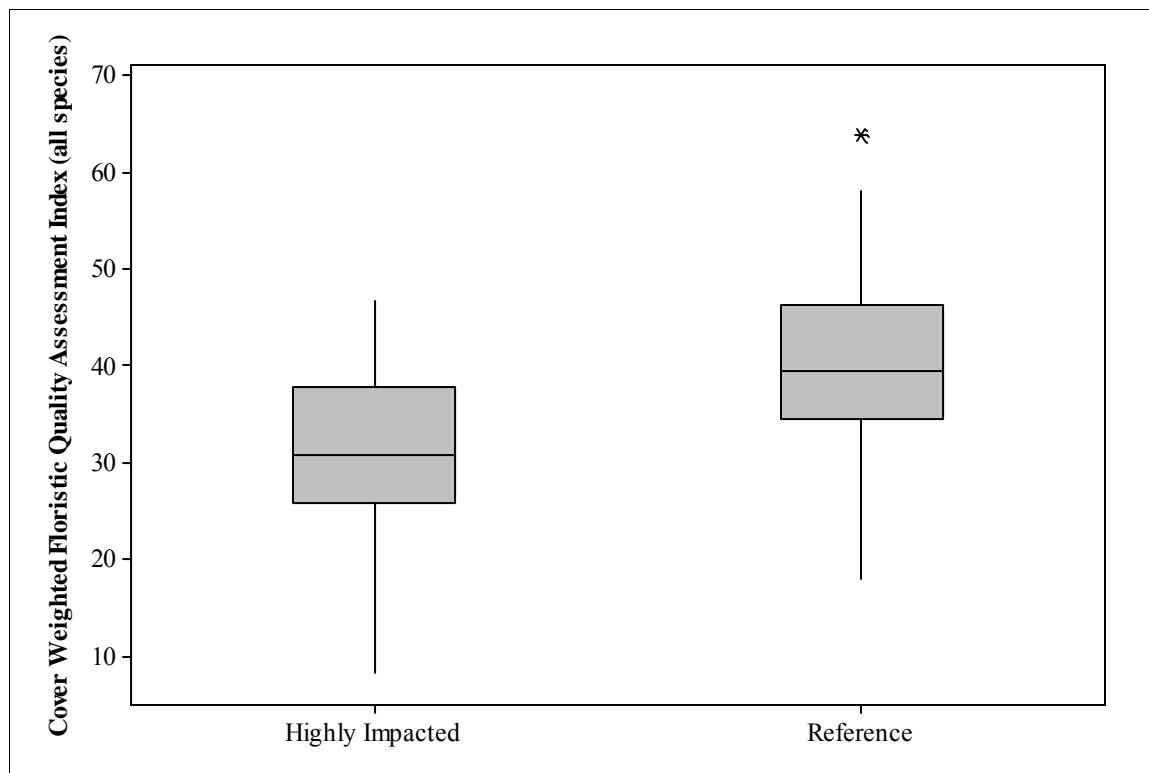
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Good	-0.46	Weak
Riparian Shrubland	Strong	-0.61	<b>Strong</b>
Fens	Poor	-0.39	Poor
Extremely Rich Fens	Good	-0.64	<b>Strong</b>
Slope Wet Meadows	Strong	-0.71	<b>Strong</b>
Riverine Wet Meadows	Poor	-0.04	Poor

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

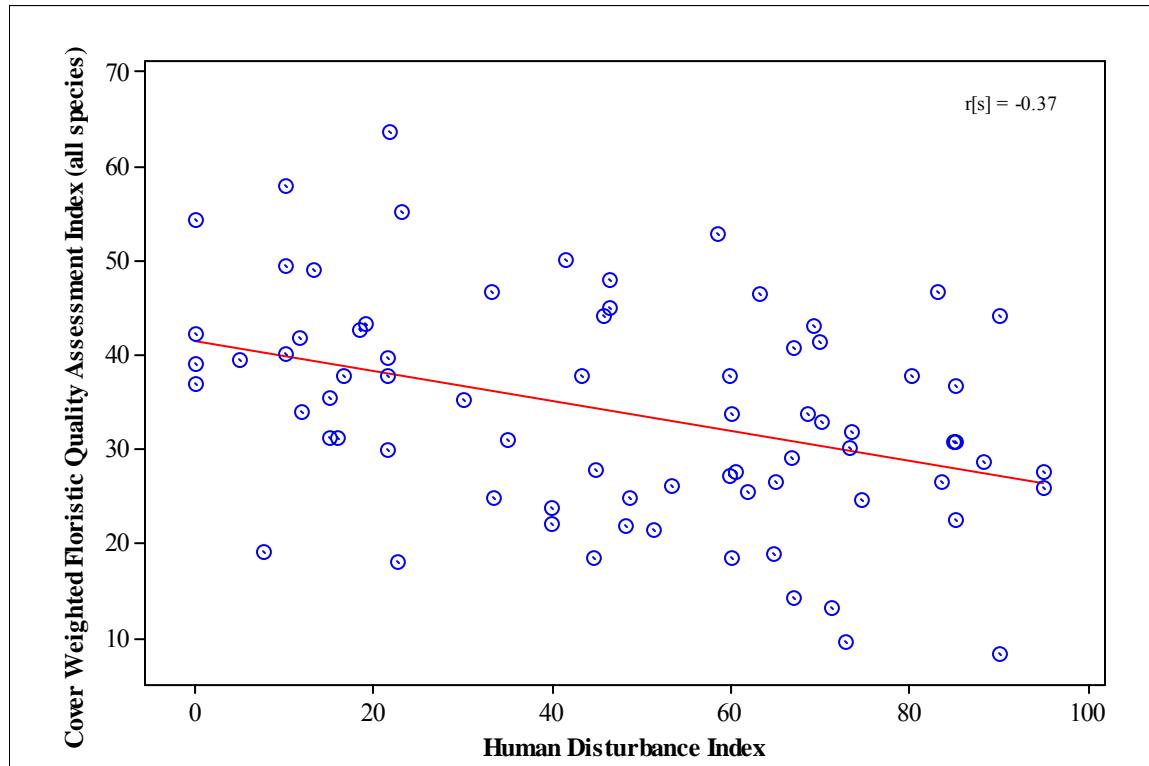
\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.8 Cover Weighted Floristic Quality Assessment Index (all species)

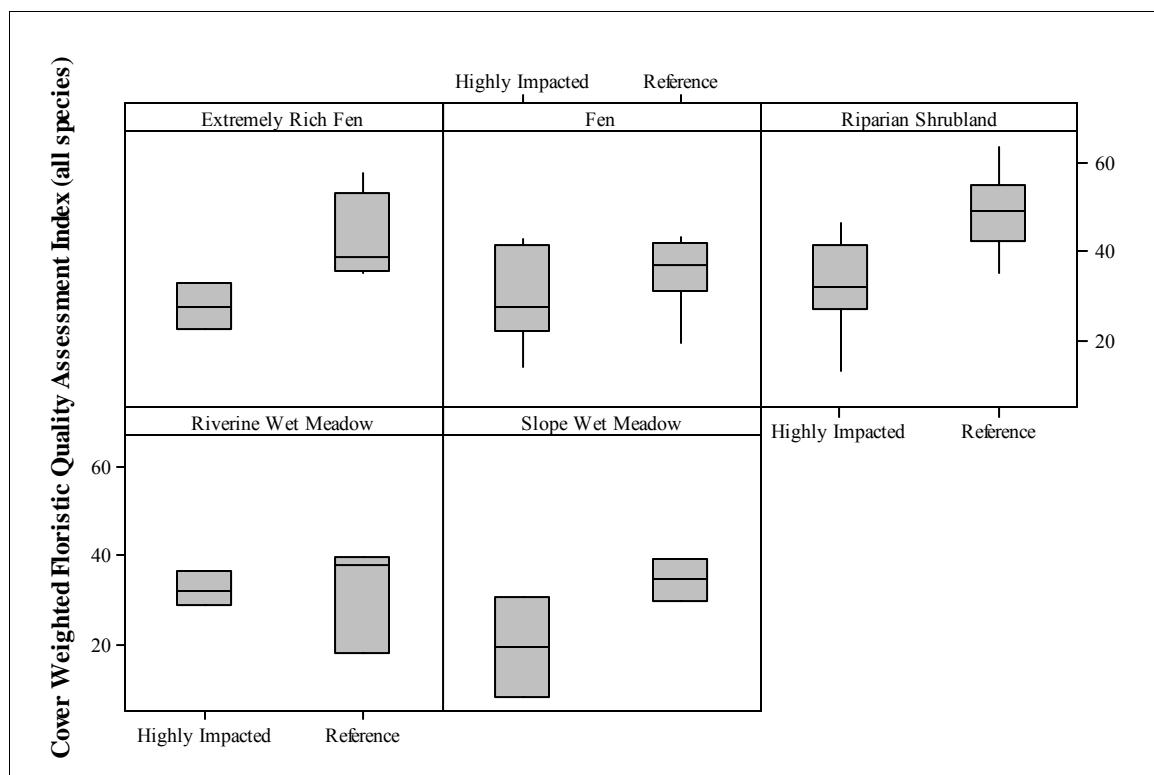
When all plots were analyzed together, the  $FQI_{all\ cov}$  index showed good discriminatory power and weak correlation ( $r[s] = -0.37$ ) to the HDI and thus was determined to have weak efficacy in discriminating sites with varying degrees of human disturbance (Figures 43 & 44; Table 11). Overall, as well as for each ecological system, the  $FQI_{all\ cov}$  index was less effective than the  $FQI_{all}$  index in detecting degradation from human disturbance (Figures 39-42; 43-46 and Tables 10 & 11) indicating that cover values did not add useful information to the index.



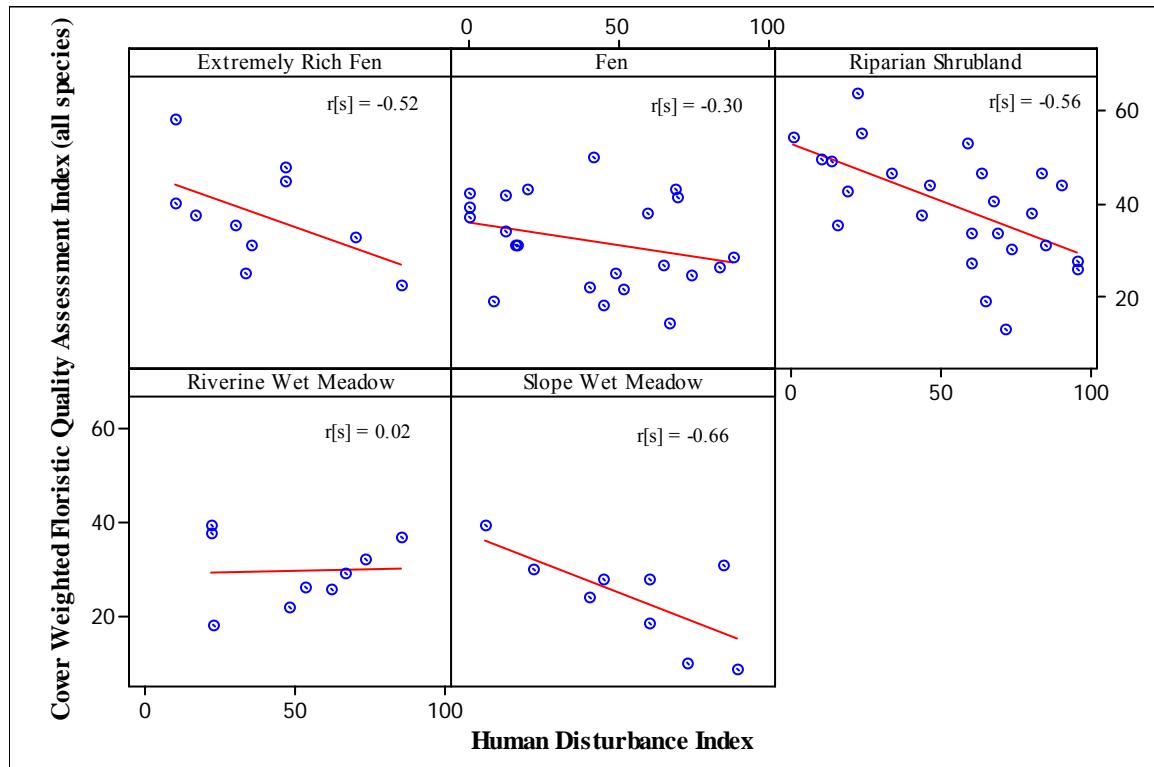
**Figure 43.** Discriminatory Power of Cover Weighted Floristic Quality Assessment Index (all species) (All Plots)



**Figure 44.** Spearman's Rank Correlation of Cover Weighted Floristic Quality Assessment Index (all species) to Human Disturbance Index (All Plots)



**Figure 45.** Discriminatory Power of Cover Weighted Floristic Quality Assessment Index (all species) (Grouped by Ecological System)



**Figure 46.** Spearman's Rank Correlation of Cover Weighted Floristic Quality Assessment Index (all species) to Human Disturbance Index (Grouped by Ecological System)

**Table 11.** Effectiveness of Cover Weighted Floristic Quality Assessment Index (all species)

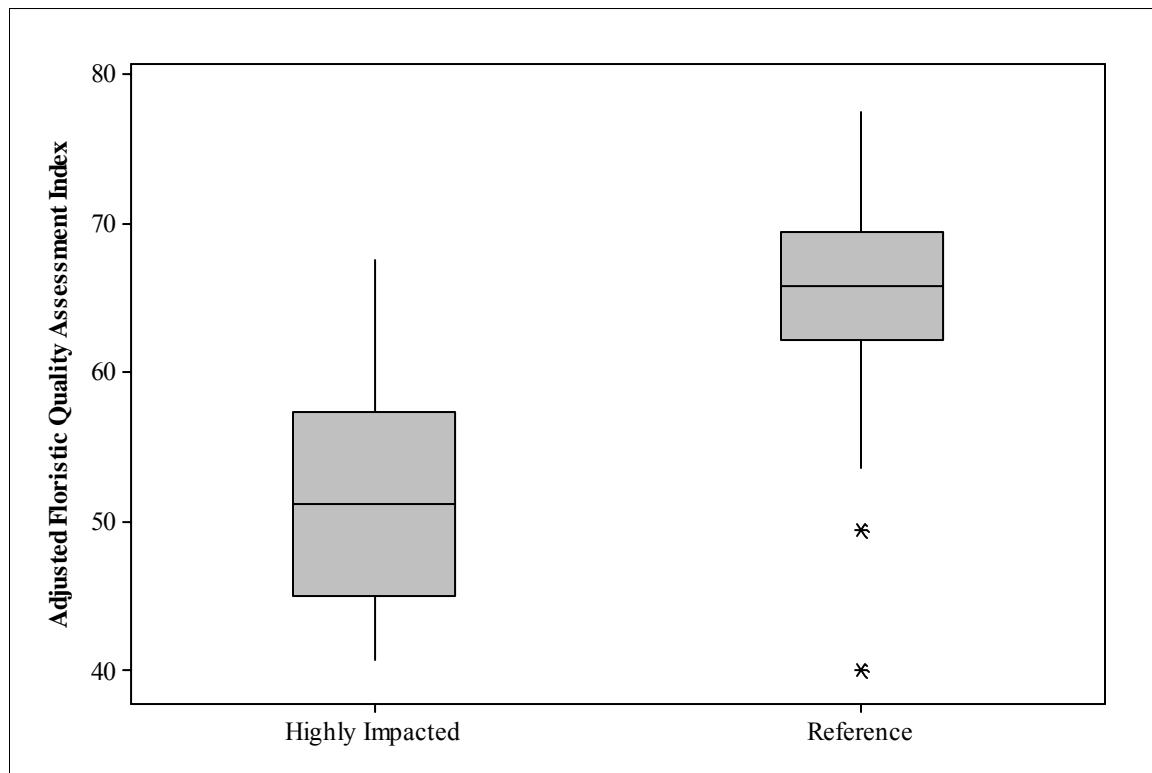
<b>Ecological System</b>	<b>Discriminatory Power*</b>	<b>Correlation to HDI</b>	<b>Efficacy**</b>
All Plots	Good	-0.37	Weak
Riparian Shrubland	Strong	-0.56	<b>Strong</b>
Fens	Weak	-0.30	Weak
Extremely Rich Fens	Strong	-0.52	<b>Strong</b>
Slope Wet Meadows	Good	-0.66	<b>Strong</b>
Riverine Wet Meadows	Poor	0.02	Poor

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

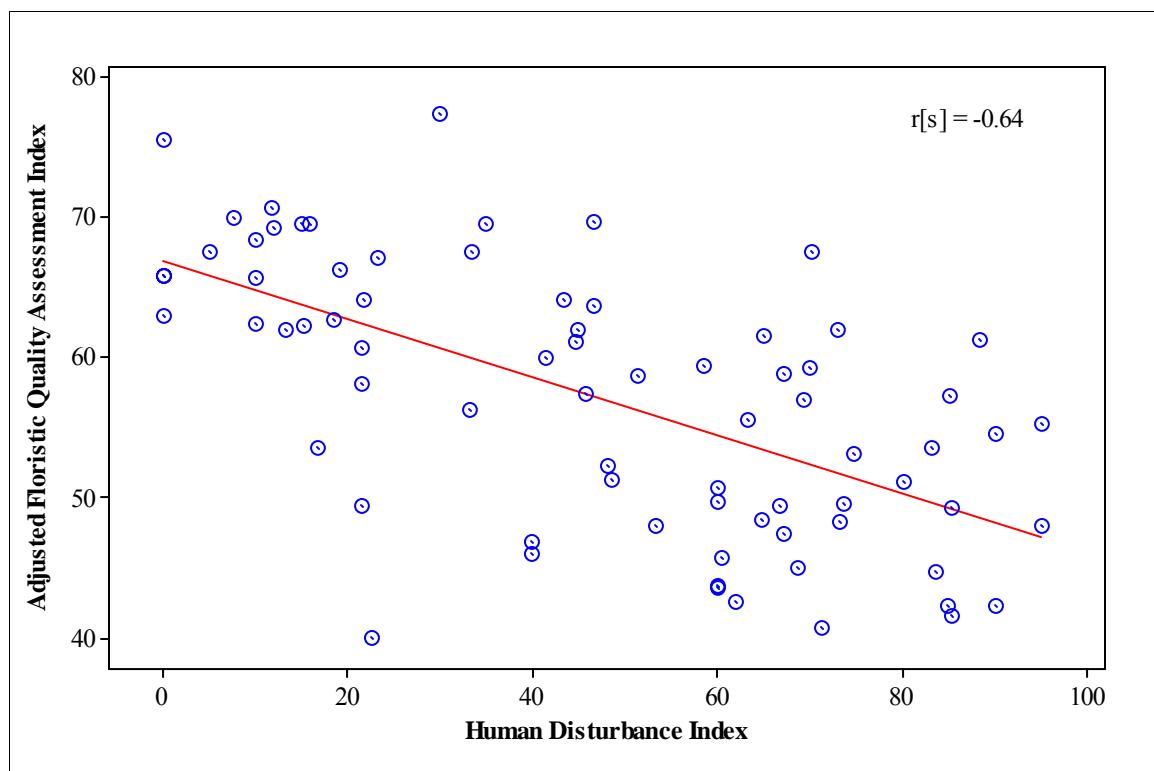
\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.9 Adjusted Floristic Quality Assessment Index

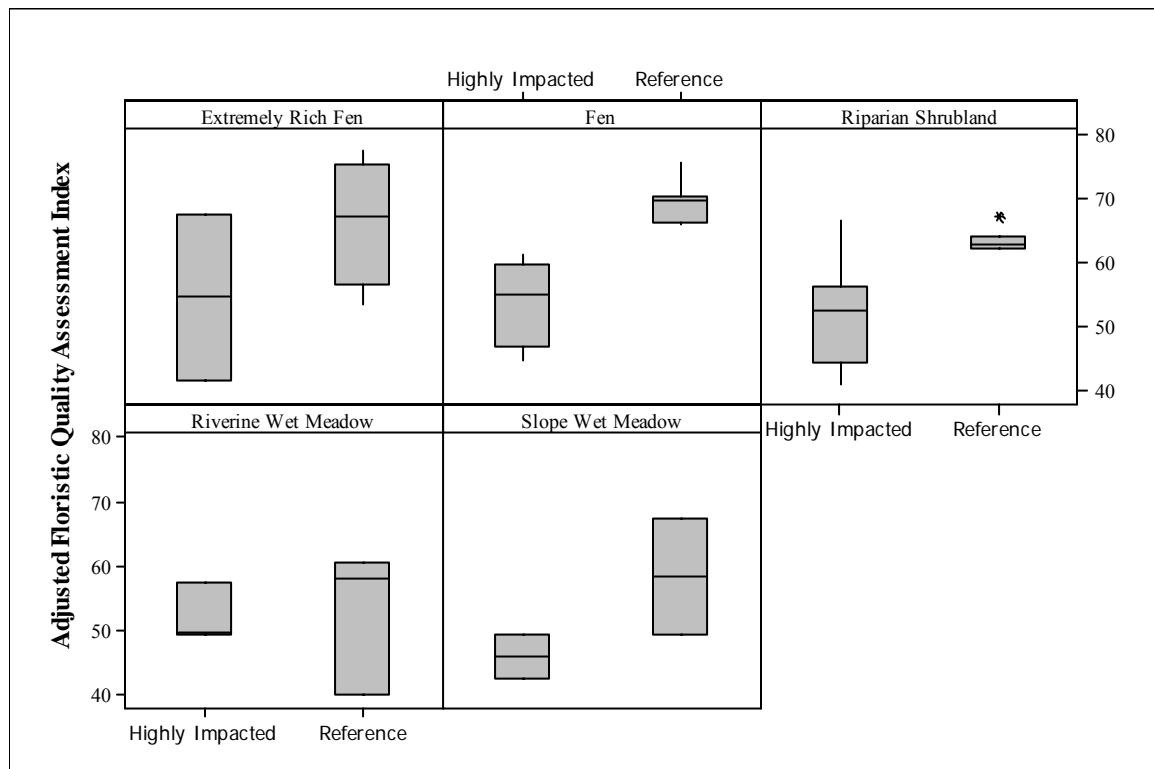
The *AFQI* was able to clearly distinguish reference from highly impacted sites (Figure 47) and had a strong correlation to the HDI ( $r[s] = -0.64$ ; Figure 48). As with Mean C based indices, variability of the *AFQI* increased when the human disturbance index increased beyond a score of approximately 15 (Figure 48). In regards to the specific ecological systems, the *AFQI* was only effective for riparian shrublands and fens (Figures 49 & 50; Table 12). For these systems, the *AFQI* became much noisier above HDI scores of 50 (Figure 50). The *AFQI* had very similar results to  $\bar{C}_{all}$  (Figures 24-26).



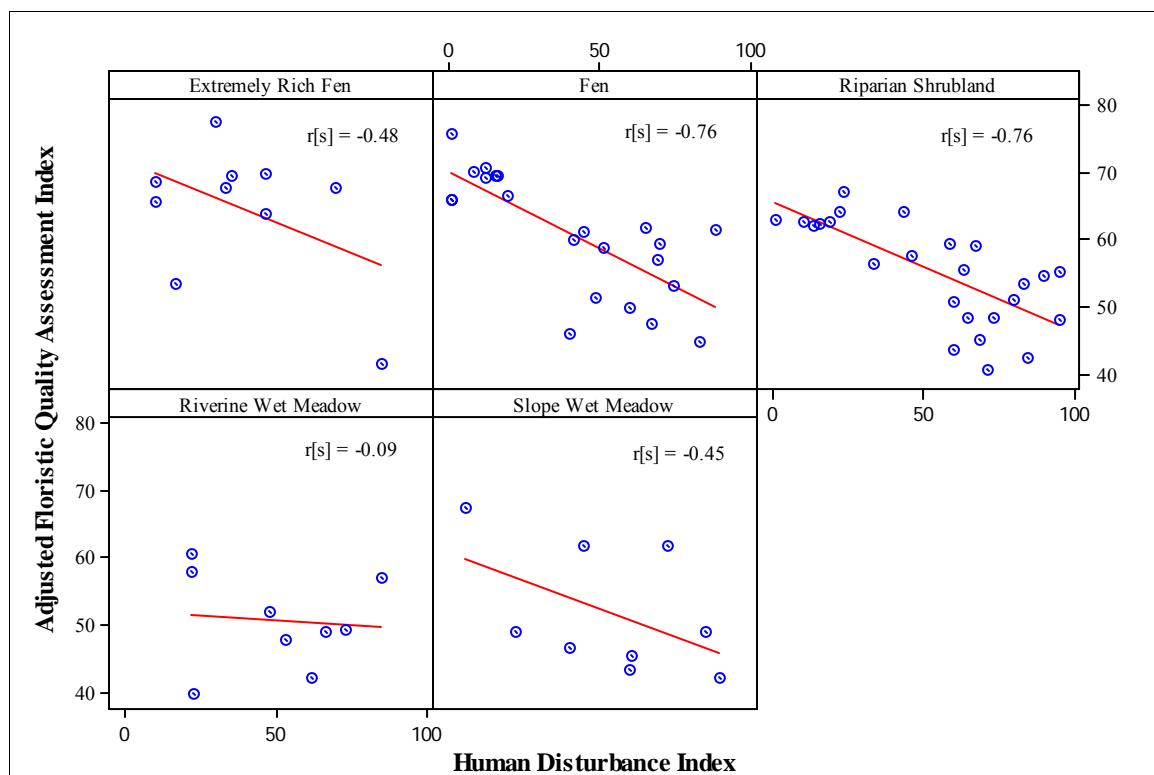
**Figure 47.** Discriminatory Power of Adjusted Floristic Quality Assessment Index (All Plots)



**Figure 48.** Spearman's Rank Correlation of Adjusted Floristic Quality Assessment Index to Human Disturbance Index (All Plots)



**Figure 49.** Discriminatory Power of Adjusted Floristic Quality Assessment Index (Grouped by Ecological System)



**Figure 50.** Spearman's Rank Correlation of Adjusted Floristic Quality Assessment Index to Human Disturbance Index (Grouped by Ecological System)

**Table 12.** Effectiveness of Adjusted Floristic Quality Assessment Index

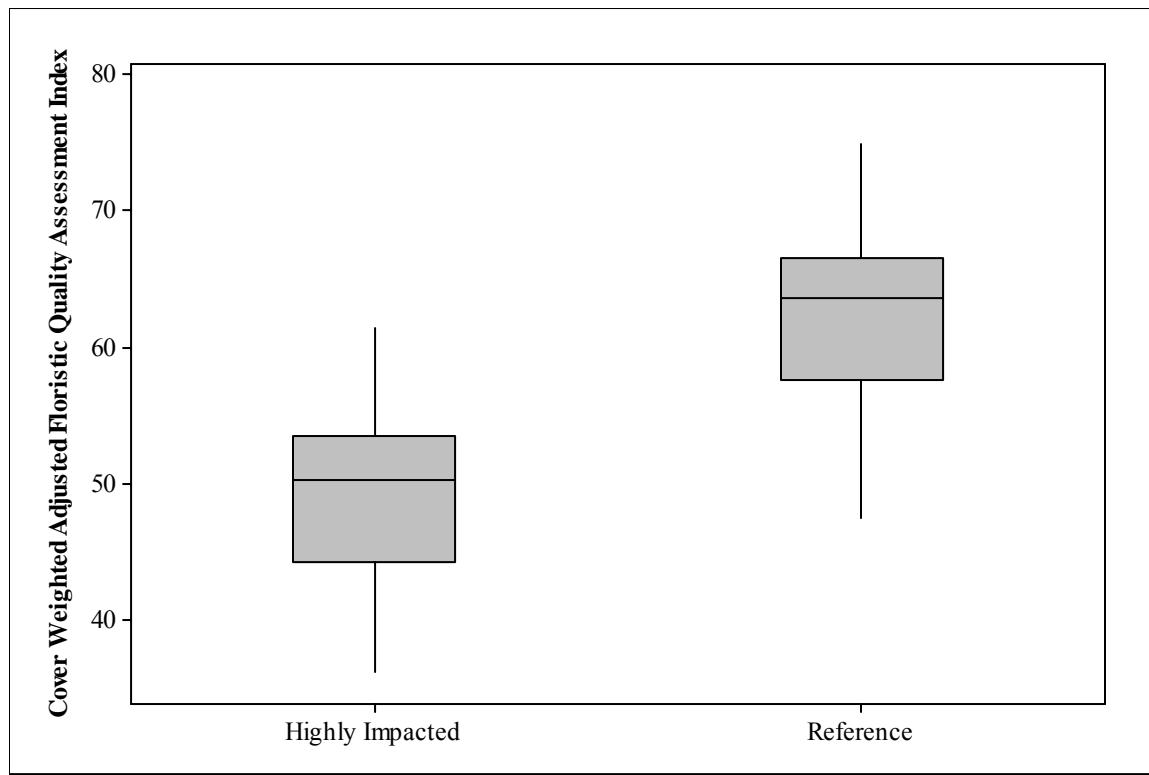
Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Strong	-0.60	<b>Strong</b>
Riparian Shrubland	Strong	-0.76	<b>Strong</b>
Fens	Strong	-0.76	<b>Strong</b>
Extremely Rich Fens	Weak	-0.48	Weak
Slope Wet Meadows	Strong	-0.45	Weak
Riverine Wet Meadows	Poor	-0.09	Poor

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

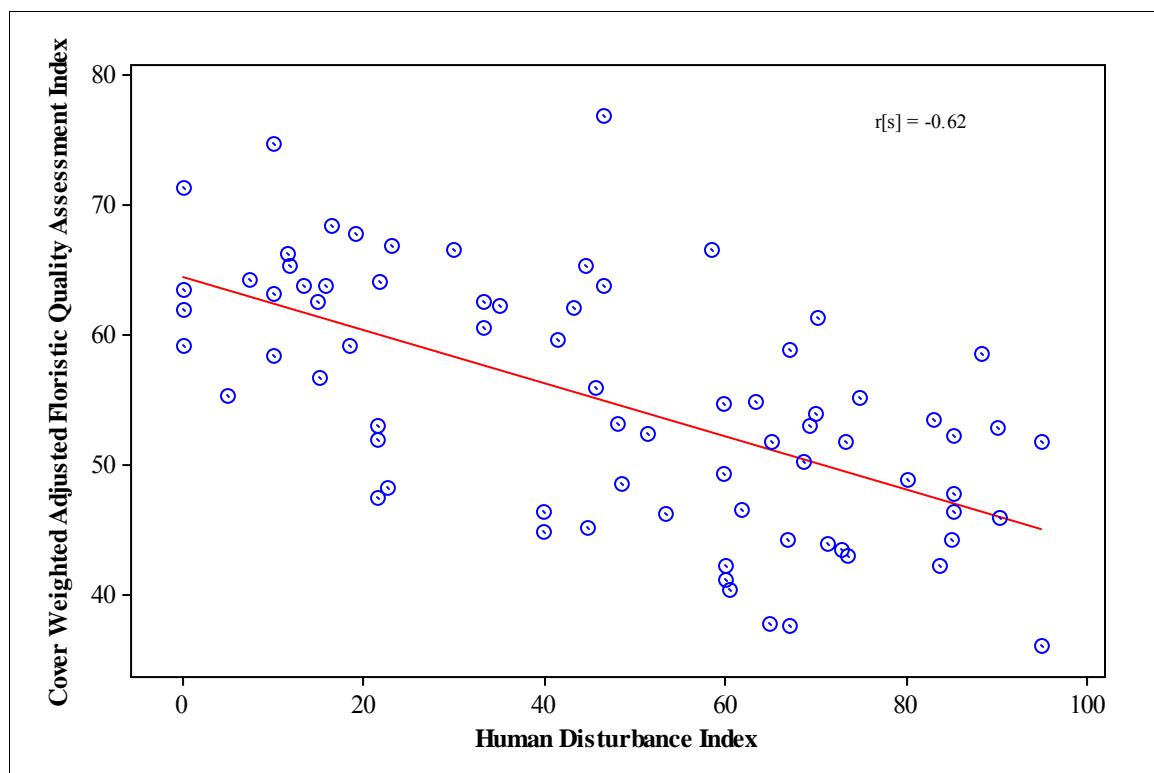
\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.10 Cover Weighted Adjusted Floristic Quality Assessment Index

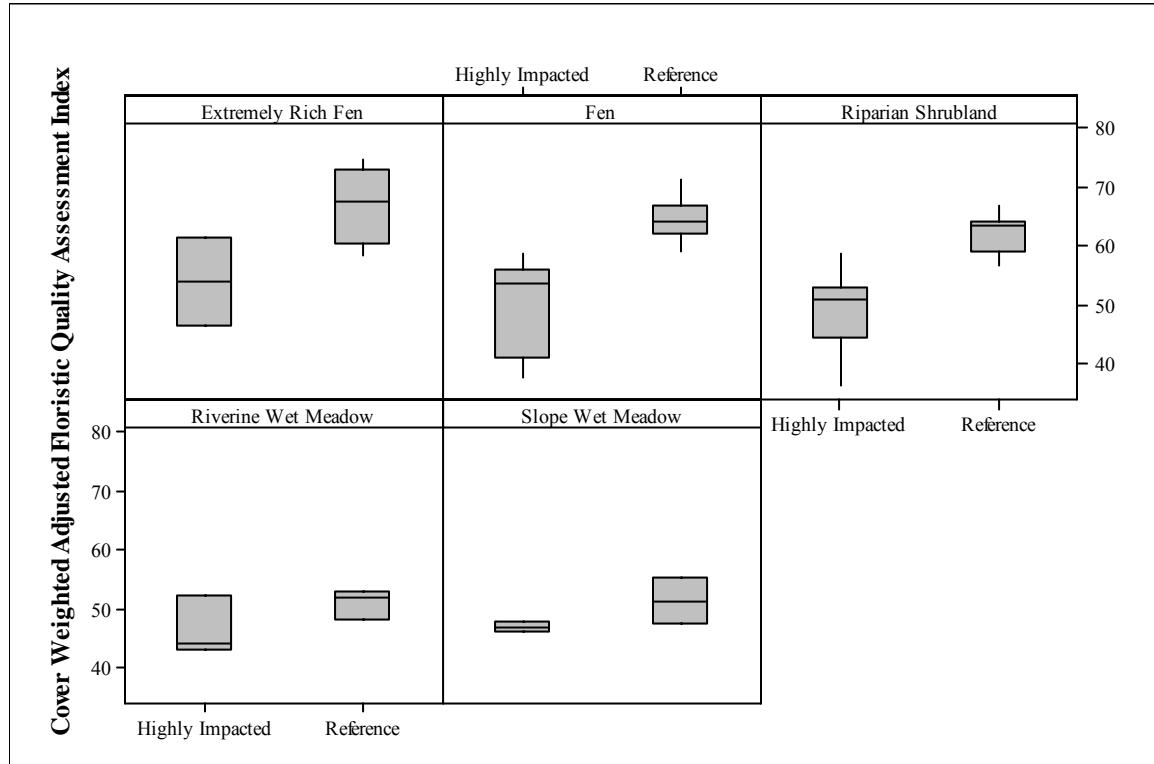
The  $AFQI_{cov}$  was able to clearly distinguish reference from highly impacted sites (Figure 51) and had a strong correlation to the HDI ( $r[s] = -0.62$ ; Figure 52). Variability of the  $AFQI_{cov}$  increased when the HDI increased beyond a score of approximately 20 (Figure 52). The  $AFQI_{cov}$  was effective for riparian shrublands, fens, and extremely rich fens but weak for slope and riverine wet meadows (Figures 53 & 54; Table 13). Although the index shows promise for slope wet meadows (Table 13), the narrow range of values may limit its usefulness (Figure 54). Except for fens, the addition of cover to the  $AFQI$  improved correlations to the HDI for all ecological systems (Table 12 & 13).



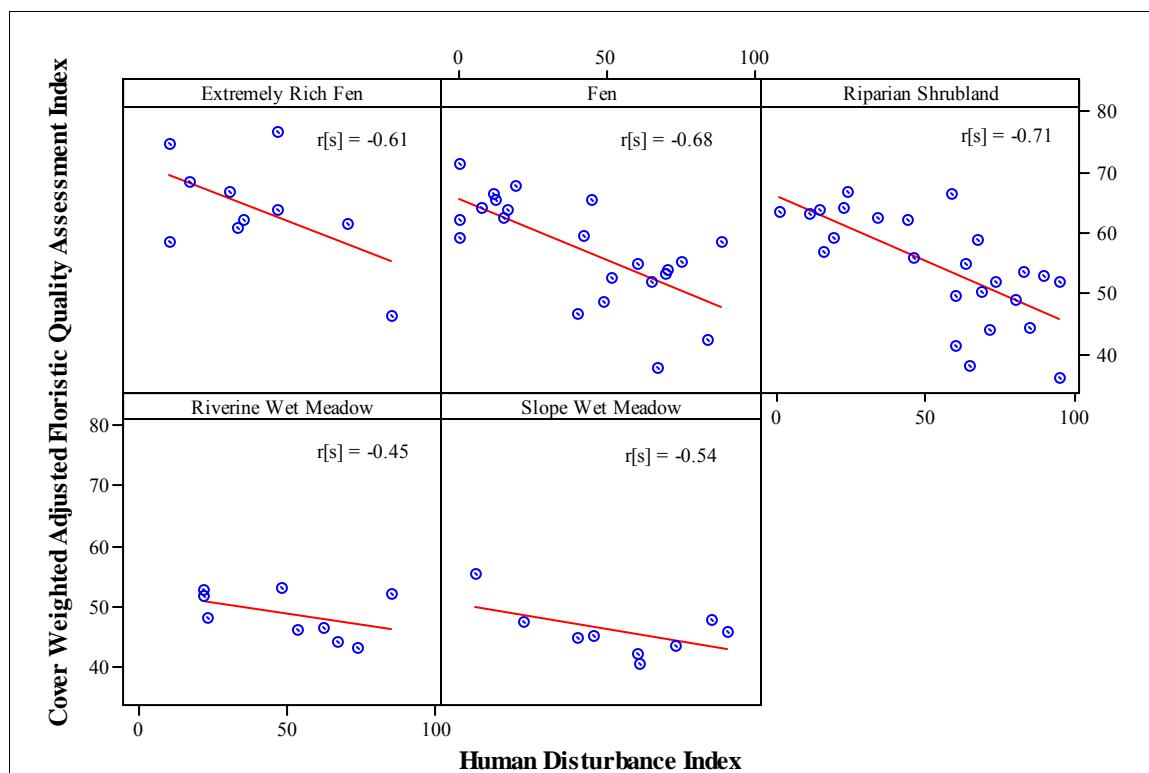
**Figure 51.** Discriminatory Power of Cover Weighted Adjusted Floristic Quality Assessment Index (All Plots)



**Figure 52.** Spearman's Rank Correlation of Cover Weighted Adjusted Floristic Quality Assessment Index to Human Disturbance Index (All Plots)



**Figure 53.** Discriminatory Power of Cover Weighted Adjusted Floristic Quality Assessment Index (Grouped by Ecological System)



**Figure 54.** Spearman's Rank Correlation of Cover Weighted Adjusted Floristic Quality Assessment Index to Human Disturbance Index (Grouped by Ecological System)

**Table 13.** Effectiveness of Cover Weighted Adjusted Floristic Quality Assessment Index

Ecological System	Discriminatory Power*	Correlation to HDI	Efficacy**
All Plots	Strong	-0.62	<b>Strong</b>
Riparian Shrubland	Strong	-0.71	<b>Strong</b>
Fens	Strong	-0.68	<b>Strong</b>
Extremely Rich Fens	Good	-0.61	<b>Strong</b>
Slope Wet Meadows	Good	-0.54	Weak
Riverine Wet Meadows	Weak	-0.45	Weak

\* Discriminatory Power (see Section 3.2.8) = Strong (3), Good (2), Weak (1), Poor (0).

\*\*Efficacy is based on the index's discriminatory power and correlation to the human disturbance index

#### 4.3.11 Summary of Field Testing Results

Only Mean C and Adjusted FQI indices were found to be effective when all plots were analyzed together (Table 14). All indices proved effective for riparian shrublands whereas none were deemed useful for riverine wet meadows (Table 14).

Species richness appears to have a stronger role than Mean C in detecting disturbance for extremely rich fens and slope wet meadows than other systems as indicated by the successfulness of the FQI-based indices for these systems and poorer performance of the Mean C based indices (Table 14). Mean C or Adjusted FQI indices appear to best detect degradation in fens (Table 13).

The addition of cover values improved the effectiveness of the Mean C (natives), Mean C (all species), and Adjusted Floristic Quality Assessment Index indices for extremely rich fens. Cover also improved these same metrics for the wet meadows types although these were not deemed effective (with or without cover values). Cover added no value to the indices for riparian shrublands and fen wetland types (Table 14). Two indices,  $\bar{C}_{all}$  and  $AFQI$  had very similar results, indicating that the addition of nonnative species has an overriding influence over the index scores in comparison to the effect from species richness.

No single index proved to be effective across all wetland types.

**Table 14.** Results of Field Testing of the FQA Indices for Southern Rocky Mountain Wetlands

FQA Index	All Plots	Riparian Shrublands	Fens	Extremely Rich Fens	Slope Wet Meadows	Riverine Wet Meadows
$\bar{C}_n$	Strong (-0.60)	Strong (-0.70)	Strong (-0.71)	Weak (-0.44)	Strong (-0.56)	Poor (-0.07)
$\bar{C}_{n\ cov}$	Strong (-0.55)	Strong (-0.61)	Strong (-0.65)	Strong (-0.57)	Weak (-0.45)	Weak (-0.34)
$\bar{C}_{all}$	Strong (-0.64)	Strong (-0.76)	Strong (-0.76)	Weak (-0.48)	Weak (-0.42)	Poor (-0.16)
$\bar{C}_{all\ cov}$	Strong (-0.64)	Strong (-0.75)	Strong (-0.68)	Strong (-0.58)	Weak (-0.50)	Weak (-0.44)
$FQIn$	Weak (-0.38)	Strong (-0.52)	Poor (-0.33)	Strong (-0.60)	Strong (-0.75)	Poor (-0.01)
$FQIn\ cov$	Weak (-0.33)	Strong (-0.51)	Poor (-0.29)	Strong (-0.53)	Strong (-0.74)	Poor (-0.02)
$FQI_{all}$	Weak (-0.46)	Strong (-0.61)	Poor (-0.39)	Strong (-0.64)	Strong (-0.71)	Poor (-0.04)
$FQI_{all\ cov}$	Weak (-0.37)	Strong (-0.56)	Weak (-0.30)	Strong (-0.52)	Strong (-0.66)	Poor (-0.02)
$AFQI$	Strong (-0.64)	Strong (-0.76)	Strong (-0.76)	Weak (-0.48)	Weak (-0.45)	Poor (-0.09)
$AFQI\ cov$	Strong (-0.62)	Strong (-0.71)	Strong (-0.68)	Strong (-0.61)	Weak (-0.54)	Weak (-0.45)

Efficacy descriptors: Strong = Strong/good discriminatory power and correlation to HDI > 0.50; Weak = Good/weak discriminatory power and correlation to HDI > 0.30; Poor = Weak/poor discriminatory power and correlation to HDI < 0.30

## 5.0 DISCUSSION

### 5.1 Assignment of Coefficients of Conservatism

Including non-native species, approximately 84% of the Colorado Flora has been assigned a C value. The C value assignments had a normal distribution but were skewed toward higher values (Figure 10), a pattern also exhibited in other FQA efforts (Andreas et al. 2004; Herman et al. 1996; Taft et al. 1997). For example, 46% of Colorado species had C values  $\geq 7$  (Figure 10) while 41% of Ohio's, 49% of Michigan's, and 49% of Illinois' flora had C values  $\geq 7$ . In contrast, there was more disparity among these various FQA efforts at the opposite end of the scale where 8% of the Colorado flora, 11% of the Ohio flora, 15% of the Michigan flora, and 17% of the Illinois' flora had C values  $\leq 3$ . Typically the proportion of species with C values  $\leq 3$  is less than 12% of a flora (Gerould Wilhelm, personal communication). The Michigan and Illinois C values were normally distributed except for sharp peaks for species assigned to 10 (Herman et al. 1996; Taft et al. 1997). The FQA for North and South Dakota did not exhibit a strong normal distribution but still shared similar proportions of species at the high end of the scale, with 52% having C values  $\geq 7$  but diverging from other FQA studies by having 23% of species with C values  $\leq 3$  (Northern Great Plains Floristic Quality Assessment Panel 2001). It appears that the distribution of assigned C values for Colorado flora is comparable to other States.

The Panel had strong agreement regarding the C values assignments, as indicated by the fact that 90% of the species had a range of C value assignments within three values. In addition, 89% of the 237 species which were assigned data-derived C values were within three values of the corresponding Panel assigned C values. However, the Panel C value assignments were generally higher than those empirically assigned. Nonetheless, these results suggest that the concept of conservatism was consistently applied, that the Panel shared similar opinions for the portion of the flora which was assigned C values, and that the subjectively assigned C values appear to be in agreement with data-derived C values.

### 5.2 Effectiveness of the FQA Indices in Detecting Floristic Change

#### 5.2.1 Testing of FQA Indices in Southern Rocky Mountain Headwater Wetlands

Field testing of the various FQA indices indicated that no single index emerged as the strongest index for detecting human-induced floristic change across all Southern Rocky Mountain wetlands (Table 13). However, a few indices, such  $\bar{C}_n$  and AFQI, were able to differentiate between reference and highly impacted sites and exhibited a good correlation with the HDI suggesting that, although the variability of these indices varies among wetland types, they were consistently able to distinguish various states of ecological condition. Weighting the various indices by percent cover had mixed results. Except for the Mean C indexes for extremely rich fens and Mean C and Adjusted FQI indices for riverine wet meadows, weighting the FQA indices by percent cover did not improve the efficacy of any of the indices (Table 13). Other researchers have also found limited utility of weighting the indices with percent cover (Cohen et al. 2004; Bourdaghs et al. 2006). Considering the limited improvement in index performance with the inclusion of percent cover, the fact that abundance can vary throughout a growing season (Wilhelm and Ladd; Swink and Wilhelm 1994), and that collecting percent cover data makes the FQA approach too intensive for rapid employment (Francis et al. 2000; Cohen et al. 2004;

Bourdags et al. 2006) it does not appear the use of cover-weighted FQA indices is worth the extra effort to collect such data.

Including non-native species into the Mean C and FQI indices improved the correlation for all wetland types except slope wet meadows (Table 13). Taft et al. (1997) recommend that FQA indices should be calculated and reported using both natives-only as well as all species in order to provide a more comprehensive and detailed assessment of floristic quality. It has been suggested that the presence of non-native species will be indirectly observed by a corresponding effect on the proportion of conservative native plants at a site (Mushet et al. 2002). In other words, the same processes that lead to invasion of non-native species is assumed to have a similar effect on the proportion of conservative plants able to survive at a site. Cohen et al. (2004) found no appreciable improvement in the efficacy of Mean C or FQI indices when non-native species were included lending support to these suggestions. However, it is possible that a site dominated by an aggressive exotic species could still support a few conservative species and consequently have a misleading Mean C value (Matthews 2003) thus it is recommended that both  $\bar{C}_n$  and  $\bar{C}_{all}$  be calculated.

Some researchers have found that the size of the assessment area has a strong effect on species richness and FQI (Francis et al. 2000; Matthews 2003; and Matthews et al. 2005) but an insignificant effect on Mean C (Francis et al. 2000; Matthews et al. 2005; Bourdaghs et al. 2006). Matthews et al. (2005) do note that Mean C is not completely independent of area but does provide a more robust assessment than the FQI. None of the FQA indices examined in this report were strongly or predictably correlated to the size of the assessment area. This may be due to the fact that the same plot size ( $1000\text{ m}^2$ ) was used at each Assessment Area and thus standardized the effect of area. However, Francis et al. (2000) found that Mean C did not appreciably change with plot size whereas species richness and FQI increased substantially and plot size increased.

For those indices determined to be effective for multiple wetland types, the scoring range of those indices among the various wetland types differed indicating that classification is an important first step before application of the FQA as suggested by other researchers (Andreas et al. 2004; Rooney and Rodgers 2002). In other words, whichever FQA index is used, the resulting scores should only be compared to similar plant community types due to the fact that some types inherently support a higher proportion of conservative species (e.g. fens) than other types (e.g. riparian shrublands). For this project, the classification used was relatively coarse (e.g. ecological systems) and it is not known how the effectiveness of each index would change with a different classification scheme. Users of the Colorado FQA need to be aware of the importance of comparing similar ecosystem types before comparing FQA indices scores from different sites.

The Floristic Quality Indices (using both native and all species versions as well cover-weights), were strongest for extremely rich fens and slope wet meadow wetland types due to the stronger relationship species richness had in these systems to the HDI. However, the FQI indices did not show promise for the other wetland types. Mean C (natives) is the most straightforward application of C values since the index does not use species richness, non-native species or cover in the calculation (Francis et al. 2000; Rooney and Rodgers 2002). In other words, the  $\bar{C}_n$  index does not contain hidden information and if used with other transparent, stand-alone indices such as species richness and percentage of non-native species provides a much clearer indication as to the specific impact human disturbance has on floristic integrity (Rooney and Rodgers 2002). In addition, Mean C has been shown to not be strongly affected by sample size, species richness, or seasonality of sampling (Francis et al. 2000; Rooney and Rodgers 2002; Matthews 2003). Although it was not considered a “strong” (per this project’s screening criteria) index for all

wetland types, it had a correlation coefficient at least  $> -0.44$  and an ability to distinguish reference from highly impacted sites for all wetland types except riverine wet meadows. Some researchers have found Mean C (natives) to be a stronger predictor of human stressors than other FQA indices (Rooney and Rogers 2002; Cohen et al. 2004) whereas Bowles and Jones (2006) found that FQI was a stronger measure of floristic quality due to the inclusion of species richness.

Compared to other FQA studies, the lower range of  $\bar{C}_n$  scores observed were higher in this study than in other geographic areas (Wilhelm and Masters 1996). Given the skewness shown in Figure 10 and the small percentage of the flora assigned a C value between 0-3, it is not surprising the most of the indices (especially  $\bar{C}_n$ ) were generally high (5 or above) in highly impacted sites (at least relative to what others have found in other parts of the country). It is unclear if these results suggest that floristic quality has not been as impacted in these sites as the HDI suggests or if many of the species were assigned “inflated” C values. The latter may be a result of the fact that many of the Panel members who assigned the C values spend a disproportionate of their time in higher quality areas. Nonetheless, any bias toward “inflated” C values does not appear to have restricted the ability of many of the FQA indices to detect degradation in floristic quality of the wetlands sampled in this study.

Interestingly, all the indices proved effective for riparian shrublands. This may be due to the fact that both Mean C and species richness in riparian shrubland had strong correlations to the HDI as compared to fens, where only C values had strong correlation, and compared to extremely rich fens and slope wet meadows, where species richness had a stronger effect than C values resulting in the effectiveness of Floristic Quality Index indices being more effective for these systems.

The extremely poor ability of any index detecting floristic change for riverine wet meadows is particularly intriguing. Cover increased the effectiveness of the Mean C and Adjusted FQI indices for this type but still did not pass the screening tests. The scatterplots of the indices for the riverine wet meadow type suggest that one outlier may be masking potential correlations with Mean C (Figures 18 & 26) and Adjusted FQI (Figure 50). Additional data collection may prove that these indices are indeed effective for this wetland type.

### *5.2.2 Recommended Use of FQA Indices*

The results of this study suggest that weighting the FQA indices by percent cover only showed significant improvement for FQA indices used in extremely rich fens and riverine wet meadows. In addition, a single, universal index which could be used to detect ecological degradation in Colorado’s plant community types was not extractable from this study’s results. However, this study does show that coefficients of conservatism can be a useful and sensitive measure of human impacts to the natural quality of ecological systems.

Due to the fact that  $\bar{C}_n$  is solely based on assigned C values and does not use species richness or cover in the calculation, it is the most straightforward index regarding plant conservatism at a site and should be calculated and reported when other FQA indices (i.e. FQI or Adjusted FQI) are used as the primary measure for monitoring and assessment. The  $\bar{C}_n$  allows better interpretation of the other indices which incorporate species richness (e.g. Floristic Quality Assessment Index and Adjusted Floristic Quality Assessment Index) and cover by helping determine the overall effect conservatism has on floristic quality relative to the other variables such as species richness, non-natives, and cover. A very useful aspect of  $\bar{C}_n$  is that it has been found to be insensitive to

sample plot size, which broadens the comparability of  $\bar{C}_n$  from existing and disparate datasets (Francis et al. 2000; Bourdaghs et al. 2006).

Although  $\bar{C}_n$  can be a useful independent metric of floristic quality, it is recommended that practitioners use additional FQA or other vegetation metrics along with Mean C to provide a more comprehensive and clear assessment (Taft et al. 1997; Jog et al. 2006). This could be accomplished using a multi-metric index such as a vegetation index of biotic integrity (e.g. Rocchio 2007) or simply by reporting and making conclusions based on multiple, independent vegetation metrics.

Miller and Wardrop (2006) created a single index (e.g. Adjusted FQI) which incorporates  $\bar{C}_n$ , species richness and non-natives species relative to expected conditions. This study showed that *AFQI* performed well for all wetland types, except riverine wet meadows and was a stronger metric than FQI indices for all wetland types except for extremely rich fens and slope wet meadows. Miller and Wardrop (2006) recommend the *AFQI* because they feel it more accurately reflects floristic quality relative to expected condition (e.g. no nonnative species and  $\bar{C}_n = 10$ ) and because the index is less sensitive to species richness. Minimally,  $\bar{C}_n$ ,  $\bar{C}_{all}$ , species richness, and % non-native should be calculated for each sample site. If a single, comprehensive index score is desired the *AFQI* or, if available, a vegetation index of biotic integrity is recommended.

Finally, although the original FQI was intended to be used to distinguish sites of various quality (Swink and Wilhelm 1994; Taft et al. 1997), classification was found to be an important constraining variable for improving the detection capability of the FQA indices in this project. Other researchers have found similar reasons to limit comparisons to similar ecological types (Rooney and Rogers 2002; Matthews 2003; Andreas et al. 2004). Thus, it is recommended that FQA index scores only be compared between similar plant community types or similar ecological system types.

### 5.3 Conclusion and Next Steps

This report presents the first iteration of the assignment of coefficients of conservatism to Colorado's flora. Additional field testing of the FQA indices is needed in a variety of ecological system types and geographic areas throughout Colorado. As additional field testing occurs, C value assignments may be refined to reflect increased understanding of the preferred ecological niche and tolerance to human stressors of Colorado's plant species. Practitioners of the FQA in Colorado are encouraged to submit their results and opinions regarding specific C value assignments to the Colorado Natural Heritage Program. Periodic review of C value assignments will occur in order to improve the FQA approach and its utility to managing Colorado's natural resources. In addition, the contribution of FQA monitoring results will build an empirical database from which the *a priori* C value assignments can be refined from empirical observations, thus creating an adaptive framework that allows continual input from new data sources and expert opinion to improve the efficacy of the C value assignments (Cohen et al. 2004).

A study of the FQA in forested wetlands in Virginia found that the FQI values of herbaceous layers was more useful than woody layers for detecting disturbance given that herbaceous species are typically more sensitive to short-term ecological conditions (Nichols et al. 2006). Future studies in Colorado could investigate whether the relationships between the FQA indices

presented in this report as well as in other ecosystems are more effective if only herbaceous species are included in the analysis.

In the near future, a FQA index calculator will be posted on CNHP's website (<http://www.cnhp.colostate.edu/reports.html>). This spreadsheet will allow practitioners to enter a species inventory list and will then automatically calculate the various FQA index scores.

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## APPENDIX A: DESCRIPTIONS AND KEY TO WETLAND ECOLOGICAL SYSTEM TYPES

### ECOLOGICAL SYSTEM DESCRIPTIONS

Note: The three “new” ecological system types discussed in this document, are in bold and embedded in the descriptions of the original three ecological systems targeted for this study.

Rocky Mountain Alpine-Montane Wet Meadow: Wet meadows are dominated by herbaceous species and range in elevation from montane to alpine (3,280 to 11,800 ft.). These types occur as large meadows in montane or subalpine valleys, as narrow strips bordering ponds, lakes, and streams, and near seeps and springs. They are typically found on flat areas or gentle slopes, but may also occur on sub-irrigated sites with slopes up to 10%. In alpine regions, sites typically are small depressions located below late-melting snow patches or on snowbeds. Soils of this system are mineral but may have large amounts of organic matter. Soils show typical hydric soil characteristics, including high organic content and/or low chroma and redoximorphic features. This system often occurs as a mosaic of several plant associations, often dominated by graminoids. Often riparian shrublands, especially those dominated by willows (*Salix* spp.), are immediately adjacent to **riverine wet meadows**. Wet meadows in the alpine are tightly associated with snowmelt (**slope wet meadows**) and typically not subjected to high disturbance events such as flooding. Wet meadows also occur near the fringes of lakes and ponds as well as near ephemeral groundwater discharge sites (**slope wet meadows**) where the water table is high enough to support hydrophytic vegetation but fluctuates or is deep enough to restrict the development of organic soils.

The size of wet meadows can vary greatly depending on their topographic location, underlying soil texture, and driving hydrological processes. Some are very small (< 1 acre) while others can be very large (> 75 acres). In order for a patch of wet meadow to be considered a distinct “ecological system”, it must meet a minimum size of 1 acre.

Rocky Mountain Subalpine-Montane Fen: Fens are confined to specific environments defined by ground water discharge, soil chemistry, and peat accumulation of at least 40 cm. Fens remain saturated primarily as a result of discharging groundwater, seasonal and/or perennial surface water input, or due to their location on the fringes of lakes and ponds. Fens form at low points in the landscape or on slopes where ground water intercepts the soil surface. Ground water inflows maintain a fairly constant water level year-round, with water at or near the surface most of the time. Constant high water levels lead to accumulation of organic material. In addition to peat accumulation and perennially saturated soils, **extremely rich fens** have distinct soil and water chemistry, with high levels of one or more minerals such as calcium and magnesium and have a high pH (e.g. > 7.0). Fens usually occur as a mosaic of several plant associations. Shrubs may be dominant. Mosses are an integral floristic as well as functional component to fens. Mosses provide a critical role in the accumulation of peat, formation of hummocks, and nutrient cycling. Most fens in the Southern Rocky Mountains are dominated by brown mosses such as *Drepanocladus aduncus*, *Tomenthypnum nitens*, and *Aulacomnium palustre*. *Sphagnum* species are not as common as brown mosses in intermediate and rich fens however *Sphagnum* is an important and conspicuous component of poor and iron fens.

A distinguishing characteristic between wet meadows and fens is the depth of the water table and presence of organic soils. In fens, ground water maintains a fairly constant water level year-

round, with water at or near the surface most of the growing season whereas water tables in wet meadows are more variable and tend to fluctuate or decline throughout the growing season.

The size of fens can vary greatly depending on their topographic location, underlying soil texture, and driving hydrological processes. Some are very small (< 0.5 acre) while others can be very large (> 2.5 acres). In order for a patch of fen to be considered a distinct “ecological system”, it must meet a minimum size of 0.5 acre.

**Rocky Mountain Subalpine-Montane Riparian Shrubland:** This system is located in the montane to subalpine and occurs as narrow to wide bands of shrubs lining stream banks and alluvial terraces in narrow to wide, low gradient valley bottoms and flood plains with sinuous stream channels. In general, most riparian shrublands in the Southern Rocky Mountains are dominated by various assemblages of willow (*Salix* spp.). Valley geomorphology and substrate dictate the types of riparian shrublands which typically develop. For example, thinleaf alder (*Alnus incana*), Drummonds willow (*Salix drummondiana*), and red-osier dogwood (*Cornus sericea*) are often dominant shrublands on steep and/or gravelly streams whereas a variety of willows (*Salix* sp.) occupy more gently sloped streams with finer sediment or peat substrates. However, riparian shrublands in the Southern Rocky Mountains are most commonly found in wide glaciated valleys or open parks where they often occupy a substantial portion of the valley floor. It has been reported that most riparian shrublands below 9000 ft. have mineral soils, while those above this elevation generally have peat or organic soils (Cooper 1986). However, for VIBI development any system with organic soils was classified as a fen.

The size of riparian shrublands can vary greatly depending on their topographic location, underlying soil texture, and driving hydrological processes. Some are very large (> 1.5 linear miles) while others can be very small (< 0.5 linear miles). In order for a patch of riparian shrubland to be considered a distinct “ecological system”, it must meet a minimum size of 0.5 miles long by 30 feet wide.

## **KEY TO ECOLOGICAL SYSTEM TYPES**

**[1]**

Mineral soils; sometimes organic soil horizon (histic epipedon) present but <40 cm ..... 2  
Organic soils, >40 cm depth present. If < 40 cm then organic soil layer occurs on lithic material ..... 4

**[2]**

Shrubs dominate overstory; sometimes with scattered trees, but not densely forested. System  
usually occurs in riparian landscape but can be found on slopes near seeps/springs

### **ROCKY MOUNTAIN SUBALPINE-MONTANE RIPARIAN SHRUBLAND**

Herbaceous vegetation is predominant; located in riparian landscape, near open water, or  
associated with groundwater discharge sites..... 3

**[3]**

Wet meadow occurs in riparian landscape; wetland is exposed to fluvial dynamics; supported by  
overbank flooding, alluvial groundwater

### **ROCKY MOUNTAIN ALPINE-MONTANE RIVERINE WET MEADOW**

Wet meadow occurs on or at base of slope; supported by unidirectional, groundwater discharge;

### **ROCKY MOUNTAIN ALPINE-MONTANE SLOPE WET MEADOW**

**[4]**

Wetland occurs on slope or in a basin and/or is supported by groundwater discharge; Generally  
occurs at elevations above 8000 ft; Shrubs or herbaceous species may dominate. Groundwater  
pH is circumneutral

### **ROCKY MOUNTAIN SUBALPINE-MONTANE FEN**

Wetland occurs on slope and/or is supported by groundwater discharge; Generally occurs at  
elevations above 8000 ft; Shrubs or herbaceous species may dominate. Groundwater is  
calcareous with pH above 7.0 and with high levels of Ca, Mg.; calciphiles are prevalent; marl  
is often present and may comprise most of substrate. In Colorado, this type is most prevalent  
in Park County, but examples are also found in Gunnison and Grand counties

### **ROCKY MOUNTAIN SUBALPINE-MONTANE EXTREMELY RICH FEN**

## APPENDIX B: HUMAN DISTURBANCE INDEX FORM

**Plot #:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Observers:** \_\_\_\_\_ **County:** \_\_\_\_\_

<b>Alterations within Buffers and Landscape Context</b>			<b>Score</b>
<b>1a. Average Buffer Width. (ALL)</b> This metric is measured by estimating the width of the buffer surrounding the wetland. Buffers are natural vegetated areas with no or minimal human-use. Buffer boundaries extend from the wetland edge to intensive human land uses which result in non-natural areas. Some land uses such as light grazing and recreation may occur in the buffer, but other more intense land uses should be considered the buffer boundary. Irrigated meadows may be considered a buffer if the area appears to function as a buffer between the wetland and nearby, more intensive land uses such as agricultural row cropping, fenced or unfenced pastures, paved areas, housing developments, golf courses, mowed or highly managed parkland, mining or construction sites, etc.			
<b>0pts</b>	<b>EXCELLENT</b>	Wide > 100 m	
<b>3pts</b>	<b>GOOD</b>	Medium. 50 m to <100 m	
<b>7pt</b>	<b>FAIR</b>	Narrow. 25 m to 50 m	
<b>10pts</b>	<b>POOR</b>	Very Narrow. < 25m	
<b>1b. Adjacent Land Use. (ALL)</b> This metric is measured by documenting surrounding land use(s) within 100 m of the outer buffer boundary. To calculate a Total Land Use Score estimate the % of the adjacent area within 100 m of the buffer boundary under each Land Use type and then plug the corresponding coefficient (Table 1) with some manipulation to account for regional application) into the following equation: <i>Sub-land use score = <math>\sum</math> LU x PC/100</i> where: LU = Land Use Score for Land Use Type; PC = % of adjacent area in Land Use Type. Do this for each land use within 100 m of the buffer edge, then sum the Sub-Land Use Score(s) to arrive at a Total Land Score. For example, if 30% of the adjacent area was under moderate grazing (0.3 * 0.6 = 0.18), 10% composed of unpaved roads (0.1 * 0.1 = 0.01), and 40% was a natural area (e.g. no human land use) (1.0 * 0.4 = 0.4), the Total Land Use Score would = 0.59 (0.18 + 0.01 + 0.40).			
<b>0pts</b>	<b>EXCELLENT</b>	Average Land Use Score = 1.0-0.95	
<b>3pts</b>	<b>GOOD</b>	Average Land Use Score = 0.80-0.94	
<b>7pt</b>	<b>FAIR</b>	Average Land Use Score = 0.4-0.79	
<b>10pts</b>	<b>POOR</b>	Average Land Use Score = < 0.4	
<b>1c. Percentage of Unfragmented Landscape Within One Kilometer (ALL)</b> This metric is measured by estimating the amount of unfragmented area in a one km buffer surrounding the wetland and dividing that by the total area. This can be completed in the office using aerial photographs or GIS.			
<b>0pts</b>	<b>EXCELLENT</b>	Embedded in 90-100% unfragmented, roadless natural landscape;	
<b>3pts</b>	<b>GOOD</b>	Embedded in 60-90% unfragmented, roadless natural landscape;	
<b>7pt</b>	<b>FAIR</b>	Embedded in 20-60% unfragmented, roadless natural landscape;	
<b>10pts</b>	<b>POOR</b>	Embedded in < 20% unfragmented, roadless natural landscape;	
<b>1d. Riparian Corridor Continuity (RIPARIAN ONLY)</b> This metric is measured as the percent of anthropogenic patches within the riparian corridor. Anthropogenic patches are defined as areas which have been converted or are dominated by human activities such as heavily grazed pastures, roads, bridges, urban/industrial development, agriculture fields, and utility right-of-ways. The riparian corridor itself is defined at the width of the geomorphic floodplain. Using GIS, field observations, and/or aerial photographs the area occupied by anthropogenic patches is compared to the area occupied by natural vegetation with the riparian corridor.			
<b>0pts</b>	<b>EXCELLENT</b>	< 5% of riparian reach with gaps / breaks due to cultural alteration	
<b>3pts</b>	<b>GOOD</b>	> 5 - 20% of riparian reach with gaps / breaks due to cultural alteration	
<b>7pt</b>	<b>FAIR</b>	>20 - 50% of riparian reach with gaps / breaks due to cultural alteration	
<b>10pts</b>	<b>POOR</b>	> 50% of riparian reach with gaps / breaks due to cultural alteration	

<b>Calculation</b>	<b>Subtotal Score</b>
(Sum of two highest scores/20) * 100	

<b>Hydrological Alterations</b>	<b>Score</b>
<b>2a. Hydrological Alterations (NON-RIPARIAN ONLY)</b> Measured by evaluating land use and human activity within or near the wetland which appear to be altering hydrology of the site. (see Table 2)	
<b>0pts</b> EXCELLENT No alterations. No dikes, diversions, ditches, flow additions, pugging, or fill present in wetland that restricts or redirects flow	
<b>8pts</b> GOOD Low intensity alteration such as roads at/near grade, pugging, small diversion or ditches (< 1 ft. deep) or small amount of flow additions	
<b>16pts</b> FAIR Moderate intensity alteration such as 2-lane road, low dikes, pugging, roads w/ culverts adequate for stream flow, medium diversion or ditches (1-3 ft. deep) or moderate flow additions.	
<b>20pts</b> POOR High intensity alteration such as 4-lane Hwy., large dikes, diversions, or ditches (>3 ft. deep) capable to lowering water table, large amount of fill, or artificial groundwater pumping or high amounts of flow additions	
<b>2b Upstream Surface Water Retention (RIPARIAN ONLY)</b> Measured as the % of the contributing watershed that occurs upstream of a surface water retention facility. (1) Sum the area of the contributing watershed. (2) Determine/sum area of the contributing watershed upstream of the surface water retention facility furthest downstream for each contributing stream reach (e.g., main channel and/or tributaries). (3) Divide this by the total area of the contributing watershed, (4) multiply by 100. For example if a dam occurs on the main channel, then the entire watershed upstream of that dam is calculated whereas if only small dams occur on tributaries then the contributing watershed upstream of each dam on each of the tributaries would be calculated then summed.	
<b>0pts</b> EXCELLENT < 5% of drainage basin drains to surface water storage facilities	
<b>3pts</b> GOOD >5 - 20% of drainage basin drains to surface water storage facilities	
<b>7pt</b> FAIR >20 - 50% of drainage basin drains to surface water storage facilities	
<b>10pts</b> POOR > 50% of drainage basin drains to surface water storage facilities	
<b>2c. Upstream/Onsite Water Diversions/Additions (RIPARIAN ONLY).</b> Calculate the total number of water diversions occurring in the contributing watershed as well as those onsite. Consider the number of diversions with the size of the contributing watershed to assess their impact.	
<b>0pts</b> EXCELLENT No upstream or onsite water diversions/additions present	
<b>3pts</b> GOOD Few diversions/additions present or impacts minor relative to contributing watershed size. Onsite diversions/additions, if present, have minor impact on local hydrology.	
<b>7pt</b> FAIR Many diversions/additions present or impacts moderate relative to contributing watershed size. Onsite diversions/additions, if present, have a major impact on local hydrology.	
<b>10pts</b> POOR Water diversions/additions are very numerous or impacts high relative to contributing watershed size. Onsite diversions/additions, if present, have drastically altered local hydrology.	
<b>2d. Floodplain Interaction (RIPARIAN ONLY)</b> This metric is estimated in the field by observing signs of overbank flooding, channel migration, and geomorphic modifications that are present within the riparian area.	
<b>0pts</b> EXCELLENT Floodplain interaction is within natural range of variability. There are no geomorphic modifications (incised channel, dikes, levees, riprap, bridges, road beds, etc.) made to contemporary floodplain.	
<b>3pts</b> GOOD Floodplain interaction is disrupted due to the presence of a few geomorphic modifications. Up to 20% of streambanks are affected.	
<b>7pts</b> FAIR Floodplain interaction is highly disrupted due to multiple geomorphic modifications. Between 20 – 50% of streambanks are affected.	
<b>10pts</b> POOR Complete geomorphic modification along river channel. The channel occurs in a steep, incised gulley due to anthropogenic impacts. More than 50% of streambanks are affected.	

	<b>Calculation</b>	<b>Subtotal Score</b>
Non-Riparian	(Score/20) * 100	
Riparian	(Sum of two highest scores/20) * 100	

<b>Physical/Chemical Disturbance</b>				<b>Score</b>
<b>3a. Substrate/Soil Disturbance<sup>18</sup> (ALL)</b> Select one or double check and average. This metric evaluates physical disturbances to the soil and surface substrates of the area. Examples include filling and grading, plowing, pugging (hummocking from livestock hooves), vehicle use (motorbikes, off-road vehicles, and construction vehicles), sedimentation, dredging, and other mechanical disturbances to the surface substrates or soils.				
<b>Circle one answer.</b>	<b>YES</b>	<b>NO</b>	<b>NOT SURE</b>	
Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural."?	Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no apparent modifications.	Choose "none apparent" and "recovered" and assign a score of 3.5.	
<b>0pts EXCELLENT</b> No Apparent Modifications				
<b>3pts GOOD</b> Past Modification but Recovered; OR Recent but Minor Modifications				
<b>7pts FAIR</b> Recovering OR Recent and Moderate Modifications				
<b>10pts POOR</b> Recent and Severe Modifications				
<b>3b. Onsite Land Use. (ALL)</b> This metric is measured by documenting surrounding land use(s) occurring in the wetland or riparian area. Follow the same procedures as in Metric 1a. Adjacent Land Use				
<b>0pts EXCELLENT</b> Average Land Use Score = 1.0-0.95				
<b>3pts GOOD</b> Average Land Use Score = 0.80-0.94				
<b>7pt FAIR</b> Average Land Use Score = 0.4-0.79				
<b>10pts POOR</b> Average Land Use Score = < 0.4				
<b>3c. Bank Stability (RIPARIAN ONLY)</b> Walk the streambanks and observe signs of eroding and unstable banks. These signs include crumbling, unvegetated banks, exposed tree roots, exposed soil, as well as species composition of streamside plants. Stable streambanks are vegetated by native species that have extensive root masses ( <i>Alnus incana</i> , <i>Salix</i> spp., <i>Populus</i> spp., <i>Betula</i> spp., <i>Carex</i> spp., <i>Juncus</i> spp., and some wetland grasses). In general, most plants with a Wetland Indicator Status of OBL (obligate) and FACW (facultative wetland) have root masses capable of stabilizing streambanks while most plants with FACU (facultative upland) or UPL (upland) do not.				
<b>0pts EXCELLENT</b> Banks stable; evidence of erosion or bank failure absent or minimal; < 5% of bank affected. Streambanks dominated (> 90% cover) by Stabilizing Plant Species (OBL & FACW)				
<b>3pts GOOD</b> Mostly stable; infrequent, small areas of erosion mostly healed over. 5-30% of bank in reach has areas of erosion. Streambanks have 75-90% cover of Stabilizing Plant Species (OBL & FACW)				
<b>7pt FAIR</b> Moderately unstable; 30-60% of bank in reach has areas of erosion; high erosion potential during floods. Streambanks have 60-75% cover of Stabilizing Plant Species (OBL & FACW)				
<b>10pts POOR</b> Unstable; many eroded areas; "raw". Areas frequent along straight sections and bends; obvious bank sloughing; 60-100% of bank has erosional scars. Streambanks have < 60% cover of Stabilizing Plant Species (OBL & FACW)				

<sup>18</sup> Adapted from Mack 2001

<b>3d. Algae<sup>19</sup></b>	Large patch = 50% cover of standing water	
<b>0pts</b>	EXCELLENT	Algae growth is minimal
<b>3pts</b>	GOOD	Algae growth in small patches
<b>7pt</b>	FAIR	Algae growth in large patches
<b>10pts</b>	POOR	Abundant algae growth in continuous mats
<b>3e. Cattail Dominance</b>	Dominance = 70% of vegetated component	
<b>0pts</b>	EXCELLENT	Cattails, if present, occur in sporadic stands but do not dominate the wetland/riparian area.
<b>10pts</b>	POOR	Cattails dominate and form a monoculture in the wetland/riparian area. Very few, if any, additional species are present. Co-dominants may include other aggressive native/non-native species.
<b>3f. Sediment &amp; Turbidity</b>		
<b>0pts</b>	EXCELLENT	No evidence of excessive sediment in wetland/riparian area due to human-induced activities (bare ground, row crops, erosion, etc.); Water is not turbid.
<b>3pts</b>	GOOD	Slight evidence of excessive sediment in wetland/riparian area due to human-induced activities (bare ground, row crops, erosion, etc.); Water is slightly turbid.
<b>7pt</b>	FAIR	Moderate evidence of excessive sediment in wetland/riparian area due to human-induced activities (bare ground, row crops, erosion, etc.); Water is moderately turbid.
<b>10pts</b>	POOR	High evidence of excessive sediment in wetland/riparian area due to human-induced activities (bare ground, row crops, erosion, etc.); Water is highly turbid.
<b>3g. Toxics/Heavy Metals</b>	Mine tailings, mine drainage, hydrocarbons, pesticides, etc. Indicators include different color of water (e.g. orange), odors, no aquatic life, or obvious point source. If the sheen immediately comes back together it is likely petroleum, otherwise it is natural.	
<b>0pts</b>	EXCELLENT	No evidence of toxics
<b>5pts</b>	GOOD/FAIR	Evidence of toxics; diversity/abundance of organism slightly affected.
<b>10pts</b>	POOR	Evidence of toxics with drastic affect on organisms.

	<b>Calculation</b>	<b>Subtotal Score</b>
All Types	(Sum of two highest scores/20) * 100	

<b>Human Disturbance Index (HDI) Score</b>	<b>Subtotal</b>	<b>Weight</b>	<b>Final Score</b>
Buffers and Landscape Context		0.33	
Hydrology		0.34	
Physical Disturbances/Water Quality		0.33	
<b>HDI Final Score</b>			

<sup>19</sup> Metrics 3d, 3e, 3f, and 3g are adapted from Montana Department of Environmental Quality 2005

Table 1. Land Use Coefficient Table (modified from Hauer et al. 2002)

Current Land Use	Coefficient
Paved roads/parking lots/domestic or commercially developed buildings/gravel pit operation	0.0
Unpaved Roads (e.g., driveway, tractor trail) / Mining	0.1
Agriculture (tilled crop production)	0.2
Heavy grazing by livestock / intense recreation (ATV use/camping/popular fishing spot, etc.)	0.3
Logging or tree removal with 50-75% of trees >50 cm dbh removed	0.4
Hayed	0.5
Moderate grazing	0.6
Moderate recreation (high-use trail)	0.7
Selective logging or tree removal with <50% of trees >50 cm dbh removed	0.8
Light grazing / light recreation (low-use trail)	0.9
Fallow with no history of grazing or other human use in past 10 yrs	0.95
Natural area / land managed for native vegetation	1.0

Land Use Calculations:

LU Type #1 Coeff	<input type="text"/>	x	% of Area <input type="text"/> / <input type="text"/>	/100	=	Sub-land use score <input type="text"/>
LU Type #2 Coeff	<input type="text"/>	x	% of Area <input type="text"/> / <input type="text"/>	/100	=	Sub-land use score <input type="text"/>
LU Type #3 Coeff	<input type="text"/>	x	% of Area <input type="text"/> / <input type="text"/>	/100	=	Sub-land use score <input type="text"/>
LU Type #4 Coeff	<input type="text"/>	x	% of Area <input type="text"/> / <input type="text"/>	/100	=	Sub-land use score <input type="text"/>
LU Type #5 Coeff	<input type="text"/>	x	% of Area <input type="text"/> / <input type="text"/>	/100	=	Sub-land use score <input type="text"/>

**Total Land Use Score**

## APPENDIX C: SAMPLE SITE INFORMATION

	<b>Ecological System</b>	<b>HGM Class</b>	<b>Human Disturbance Index</b>	<b>Human Disturbance Category</b>	<b>Dominant Land Use</b>	<b>Sampling Date</b>	<b>Site Name</b>	<b>Watershed</b>	<b>Elevation (ft)</b>	<b>UTM 13 NAD83 Easting</b>	<b>UTM 13 NAD83 Northing</b>	<b>Soil Type</b>	<b>WAA Size (hectare)</b>
Plot 01	Wet Meadow	Slope	39.80	Impacted	Recreation	7/7/2004	Cataract Lake	Blue River	8750	387366	4410496	Mineral	0.18
Plot 02	Wet Meadow	Slope	60.00	Impacted	Grazing	7/8/2004	Cataract Lake-Irrigated Meadow	Blue River	8454	389494	4411631	Mineral	1.89
Plot 03	Wet Meadow	Riverine	22.50	Reference	Grazing	7/9/2004	County Line Meadow	Blue River	7740	386743	4419368	Mineral	0.35
Plot 04	Fen	Slope	18.98	Reference	Natural	7/13/2004	Frisco Boardwalk Fen	Blue River	9120	405649	4380424	Organic	0.58
Plot 05	Riparian Shrubland	Slope	67.00	Highly Impacted	Suburban	7/14/2004	Frisco Bike Path Shrubland	Blue River	9120	405735	4380438	Mineral	1.24
Plot 06	Riparian Shrubland	Riverine	84.85	Highly Impacted	Urban	7/15/2004	Straight Creek - Silverthorne	Blue River	8888	408776	4387160	Mineral	1.51
Plot 07	Fen	Slope	14.85	Reference	Natural	7/20/2004	Lost Park Campground	Upper South Platte River	9960	456222	4348380	Organic	0.24
Plot 08	Wet Meadow	Riverine	53.20	Impacted	Grazing	7/21/2004	BLM 94	South Platte River Headwaters	9600	424978	4350609	Mineral	0.24
Plot 09	Riparian Shrubland	Riverine	80.05	Highly Impacted	Grazing	7/22/2004	Teter SWA Parking Lot	South Platte River Headwaters	9665	426853	4359100	Mineral	1.34
Plot 10	Riparian Shrubland	Riverine	15.00	Reference	Natural	7/23/2004	Michigan Creek Campground	South Platte River Headwaters	10000	424353	4362357	Mineral	6.34
Plot 11	Riparian Shrubland	Riverine	45.53	Impacted	Suburban	7/27/2004	Breckenridge Gold Course	Blue River	9300	411402	4375350	Mineral	1.1
Plot 13	Riparian Shrubland	Riverine	23.10	Reference	Natural	7/29/2004	Deer Creek	Blue River	11000	425236	4377901	Mineral	2.07
Plot 14	Wet Meadow	Riverine	66.70	Highly Impacted	Suburban	7/29/2004	Soda Creek	Blue River	9020	413041	4383563	Mineral	2.21

	<b>Ecological System</b>	<b>HGM Class</b>	<b>Human Disturbance Index</b>	<b>Human Disturbance Category</b>	<b>Dominant Land Use</b>	<b>Sampling Date</b>	<b>Site Name</b>	<b>Watershed</b>	<b>Elevation (ft)</b>	<b>UTM 13 NAD83 Easting</b>	<b>UTM 13 NAD83 Northing</b>	<b>Soil Type</b>	<b>WAA Size (hectare)</b>
Plot 15	Extremely Rich Fen	Slope	9.90	Reference	Natural	8/6/2004	High Creek Fen	South Platte River Headwaters	9290	415981	4328230	Organic	26.32
Plot 16	Extremely Rich Fen	Slope	70.10	Highly Impacted	Mining	8/6/2004	High Creek Fen	South Platte River Headwaters	9290	416069	4328353	Organic	2.72
Plot 17	Fen	Slope	41.35	Impacted	Suburban	8/9/2004	Bemrose Creek	Blue River	10700	409433	4359579	Organic	0.19
Plot 18	Riparian Shrubland	Riverine	13.20	Reference	Natural	8/10/2006	Middle Fork Swan River	Blue River	10000	419389	4372351	Mineral	4.94
Plot 19	Riparian Shrubland	Riverine	9.90	Reference	Natural	8/11/2004	Indiana Creek	Blue River	10600	414071	4364864	Mineral	3.63
Plot 20	Extremely Rich Fen	Slope	16.50	Reference	Natural	8/13/2004	County Line Fen	Blue River	7750	386715	4419389	Organic	0.2
Plot 21	Fen	Slope	74.65	Highly Impacted	Grazing	7/28/2004	Horse Creek Fen 2	Blue River	8000	389963	4416033	Organic	0.53
Plot 22	Wet Meadow	Slope	90.10	Highly Impacted	Grazing	7/7/2005	Horse Creek-irrigated meadow	Blue River	8000	389811	4416186	Mineral	1.29
Plot 23	Riparian Shrubland	Riverine	73.10	Highly Impacted	Grazing	7/7/2005	Horse Creek-Riparian	Blue River	8060	390055	4416443	Mineral	0.88
Plot 24	Fen	Slope	59.80	Impacted	Grazing	7/8/2005	Iron Springs	Blue River	9242	408451	4380581	Organic	1.34
Plot 25	Extremely Rich Fen	Slope	29.90	Reference	Grazing	7/12/2005	Crooked Creek Fen 1	South Platte River Headwaters	10037	415122	4347238	Organic	1.13
Plot 26	Extremely Rich Fen	Slope	85.15	Highly Impacted	Grazing	7/13/2005	Crooked Creek Fen 2	South Platte River Headwaters	10016	415214	4347174	Organic	1.71
Plot 27	Fen	Slope	15.75	Reference	Natural	7/13/2005	Crooked Creek Fen 3	South Platte River Headwaters	10050	415024	4347285	Organic	0.92
Plot 28	Riparian Shrubland	Riverine	64.75	Impacted	Grazing	7/14/2005	Tomahawk SWA	South Platte River Headwaters	9096	425184	4326976	Mineral	0.7
Plot 29	Riparian Shrubland	Riverine	59.80	Impacted	Grazing	7/14/2005	Tomahawk SWA2	South Platte River Headwaters	9088	425166	4327352	Mineral	0.4

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	Ecological System	HGM Class	Human Disturbance Index	Human Disturbance Category	Dominant Land Use	Sampling Date	Site Name	Watershed	Elevation (ft)	UTM 13 NAD83 Easting	UTM 13 NAD83 Northing	Soil Type	WAA Size (hectare)
Plot 30	Riparian Shrubland	Riverine	58.35	Impacted	Exurban	7/15/2005	Tarryall Creek	South Platte River Headwaters	10306	418023	4357048	Mineral	7.44
Plot 31	Riparian Shrubland	Riverine	0.00	Reference	Natural	7/19/2005	Trail Creek	Colorado River Headwaters	8984	406499	4459712	Mineral	0.41
Plot 32	Fen	Slope	0.00	Reference	Natural	7/21/2005	Second Creek	Colorado River Headwaters	11268	432956	4408597	Organic	0.26
Plot 33	Riparian Shrubland	Riverine	18.40	Reference	Natural	7/22/2005	St. Louis Creek	Colorado River Headwaters	9388	423068	4414284	Mineral	1.21
Plot 34	Extremely Rich Fen	Slope	9.90	Reference	Natural	7/27/2005	High Creek Fen - Shrubland	South Platte River Headwaters	9276	415702	4327905	Organic	0.25
Plot 35	Extremely Rich Fen	Slope	34.85	Reference	Grazing	7/27/2005	Teter-Michigan Creek SWA	South Platte River Headwaters	9672	426459	4358616	Organic	0.93
Plot 36	Wet Meadow	Slope	85.15	Highly Impacted	Grazing	7/27/2005	Teter-Michigan Creek SWA2	South Platte River Headwaters	9686	426464	4358731	Mineral	0.63
Plot 37	Fen	Slope	11.55	Reference	Natural	7/29/2005	Michigan Creek Headwaters	South Platte River Headwaters	11292	420999	4367487	Organic	0.21
Plot 38	Riparian Shrubland	Riverine	33.15	Reference	Suburban	8/1/2005	Mesa Cortina-Wildernest	Blue River	9600	405626	4386288	Mineral	0.64
Plot 39	Wet Meadow	Slope	4.95	Reference	Natural	8/2/2005	Spruce Creek	Blue River	10757	408443	4364948	Mineral	0.16
Plot 40	Riparian Shrubland	Riverine	21.60	Reference	Recreation	8/3/2005	N. Fork Swan River	Blue River	9850	418977	4374191	Mineral	1.11
Plot 41	Riparian Shrubland	Riverine	83.00	Highly Impacted	Mining	8/4/2005	N. Fork Swan River2	Blue River	9698	417440	4375082	Mineral	0.47
Plot 42	Wet Meadow	Riverine	61.75	Impacted	Grazing	8/15/2005	Tarryall Creek SWA	South Platte River Headwaters	8900	446707	4342923	Mineral	2
Plot 43	Riparian Shrubland	Riverine	60.00	Impacted	Grazing	8/16/2005	Hwy. 9/FR 258	South Platte River Headwaters	9183	443174	4301507	Mineral	0.42

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	Ecological System	HGM Class	Human Disturbance Index	Human Disturbance Category	Dominant Land Use	Sampling Date	Site Name	Watershed	Elevation (ft)	UTM 13 NAD83 Easting	UTM 13 NAD83 Northing	Soil Type	WAA Size (hectare)
Plot 44	Extremely Rich Fen	Slope	46.40	Impacted	Grazing	8/16/2005	Badger Creek SWA	South Platte River Headwaters	8955	428314	4321085	Organic	1.27
Plot 45	Riparian Shrubland	Riverine	94.90	Highly Impacted	Mining	8/17/2005	Middle Fork S. Platte River-Fairplay Beach	South Platte River Headwaters	9922	413526	4341839	Mineral	3.17
Plot 46	Fen	Slope	7.43	Reference	Natural	8/18/2005	Montezuma Iron Fen	Blue River	11193	427923	4378064	Organic	0.57
Plot 47	Wet Meadow	Slope	72.80	Impacted	Mining	8/18/2005	Pennsylvania Mine	Blue River	10881	430201	4383761	Mineral	0.17
Plot 48	Fen	Slope	44.55	Impacted	Mining	8/18/2005	Pennsylvania Mine2	Blue River	10982	430164	4383783	Organic	0.68
Plot 49	Wet Meadow	Riverine	21.45	Reference	Recreation	8/19/2005	Ten Mile Creek	Blue River	10000	403054	4381500	Mineral	0.31
Plot 50	Fen	Slope	0.00	Reference	Natural	8/23/2005	Iron Creek	Colorado River Headwaters	10118	421121	4412805	Organic	0.78
Plot 51	Fen	Slope	0.00	Reference	Natural	8/23/2005	Iron Creek	Colorado River Headwaters	10112	421323	4412852	Organic	0.17
Plot 52	Fen	Slope	11.75	Reference	Natural	8/25/2005	Monarch Lake	Colorado River Headwaters	8375	437374	4439314	Organic	0.53
Plot 53	Wet Meadow	Slope	60.40	Impacted	Recreation	6/28/2006	SR 4 Sisters of Charity	Blue River	9200	413834	4384990	Mineral	0.59
Plot 54	Fen	Slope	48.45	Impacted	Grazing	7/9/2006	Blue River Valley	Blue River	8290	401777	4401968	Organic	0.13
Plot 55	Wet Meadow	Slope	21.45	Reference	Grazing	7/10/2006	Blue River Valley	Blue River	8290	401914	4401942	Mineral	0.1
Plot 56	Fen	Slope	39.80	Impacted	Recreation	7/11/2006	Blue River Valley	Blue River	9200	413745	4385011	Organic	0.33
Plot 57	Wet Meadow	Riverine	21.45	Reference	Recreation	7/12/2006	North Fork Snake River	Blue River	10320	423274	4387458	Mineral	0.1
Plot 58	Riparian Shrubland	Riverine	43.20	Impacted	Mining	7/18/2006	Montezuma Wetland	Blue River	10000	425452	4382208	Mineral	0.12
Plot 59	Riparian Shrubland	Riverine	68.50	Highly Impacted	Recreation	7/19/2006	Horse Creek	Blue River	7960	390073	4415505	Mineral	1.26
Plot 60	Wet Meadow	Riverine	48.00	Impacted	Grazing	7/24/2006	East of Fairplay	Upper South Platte River	9688	417389	4341905	Mineral	1.18

	Ecological System	HGM Class	Human Disturbance Index	Human Disturbance Category	Dominant Land Use	Sampling Date	Site Name	Watershed	Elevation (ft)	UTM 13 NAD83 Easting	UTM 13 NAD83 Northing	Soil Type	WAA Size (hectare)
Plot 61	Fen	Slope	64.95	Impacted	Grazing	7/25/2006	Crooked Creek @Coil Ranch	Upper South Platte River	9694	417529	4341059	Organic	4.89
Plot 62	Extremely Rich Fen	Slope	46.40	Impacted	Grazing	7/26/2006	Upper Four Mile Creek1	Upper South Platte River	9852	411690	4337483	Organic	0.29
Plot 63	Extremely Rich Fen	Slope	33.20	Reference	Grazing	8/1/2006	4 mile Creek	Upper South Platte River	9770	412177	4336952	Organic	0.6
Plot 64	Wet Meadow	Slope	44.75	Impacted	Grazing	8/2/2006	No Data	Upper South Platte River	9803	412241	4336881	Mineral	0.85
Plot 65	Wet Meadow	Riverine	85.00	Highly Impacted	Grazing/Recreational	8/3/2006	Rach 63, S. Fork S. Platte River	Upper South Platte River	8960	416516	4317822	Mineral	1.39
Plot 68	Riparian Shrubland	Riverine	71.25	Impacted	Grazing	8/8/2006	Knight-Imler	Upper South Platte River	9189	415940	4324409	Mineral	1.1
Plot 69	Wet Meadow	Riverine	73.45	Highly Impacted	Grazing	8/9/2006	S.Fork S. Platte River	Upper South Platte River	9000	417674	4317792	Mineral	2.49
Plot 70	Fen	Slope	69.90	Highly Impacted	Grazing	8/11/2006	Platte Ranch	Upper South Platte River	9340	419458	4332415	Organic	5.2
Plot 71	Riparian Shrubland	Riverine	94.90	Highly Impacted	Suburban	8/14/2006	Meadow Creek @ Dillon Reservoir	Blue River	9025	406374	4382617	Mineral	2.41
Plot 72	Riparian Shrubland	Riverine	63.20	Impacted	Suburban	8/15/2006	Willow Creek	Blue River	8960	405713	4389619	Mineral	0.87
Plot 73	Riparian Shrubland	Riverine	89.95	Highly Impacted	Suburban	8/16/2006	Frisco Bay	Blue River	9020	406315	4381492	Mineral	0.67
Plot 74	Fen	Slope	88.25	Highly Impacted	Utility Line	8/22/2006	Sewer Line Fen	Colorado River Headwaters	8855	434448	4416240	Organic	0.15
Plot 75	Fen	Slope	83.50	Highly Impacted	Mining	8/23/2006	Warm Springs	Upper South Platte River	10052	408992	4335304	Organic	1.11
Plot 76	Fen	Slope	69.28	Highly Impacted	Ditch	8/24/2006	Four mile Creek	Upper South Platte River	9240	419534	4328772	Organic	0.6
Plot 77	Fen	Slope	67.00	Highly Impacted	Ditch	8/24/2006	Four mile Creek	Upper South Platte River	9190	420930	4327457	Organic	3.76
Plot 78	Fen	Slope	51.35	Impacted	Grazing	8/25/2006	Elkhorn Road	Upper South Platte River	9640	425957	4351598	Organic	1.9

## APPENDIX D: SPECIES FREQUENCY IN EACH ECOLOGICAL SYSTEM AND HUMAN DISTURBANCE CLASS

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			<b>Total # of Plots</b>
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Abies lasiocarpa	5					1	1								1		3
Achillea millefolium var. occidentalis	4	1	1	1	5	3	2	7	8	7	3	2	2	2	2	1	47
Achnatherum nelsonii	6							4									4
Aconitum columbianum	8			1		1		1		5			1		1		10
Aconitum columbianum ssp. columbianum	8								1								1
Agoseris aurantiaca	6								1								1
Agoseris glauca	6		1	2	1			1			1		1	1	1		8
Agoseris glauca var. laciniata	7												1				1
Agropyron desertorum	*								1								1
Agrostis exarata	*								1								1
Agrostis gigantea	*			1	1			1	2				1		1		7
Agrostis humilis	10					3			1	2							6
Agrostis scabra	4		1		1	3	3	5	5	6	1		2	1	1		29
Agrostis stolonifera	*							1									1
Allium geyeri	5								2								2
Almutaster pauciflorus	4	1	1	2													4
Alnus incana ssp. tenuifolia	6		1					1	1								3
Alopecurus aequalis	4					1		3	1	3	1	1	1				11
Alopecurus alpinus	7								1	3							4
Alopecurus pratensis	*							2	3	1	1	1	1				9
Androsace filiformis	8								1	3							4

<sup>20</sup> C value = coefficient of conservatism (Rocchio 2007); \* = non-native species (defaulted to 0 in metric calculations); NCA = No C value has been assigned yet.

<sup>21</sup> Hig Imp = Highly Impacted sites

<sup>22</sup> Imp = Impacted site

<sup>23</sup> Ref = Reference site

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Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Androsace septentrionalis	6							1									1
Anemone cylindrica	5			1					1								2
Angelica pinnata	5															1	1
Antennaria anaphaloides	5			1													2
Antennaria can't read	5															1	1
Antennaria corymbosa	5		1	1	2	1		1	1	4	1		1				15
Antennaria luzuloides	5										1						1
Antennaria rosea	5			2				1	2	1			1				7
Antennaria umbrinella	8							1									1
Arabis drummondii	5							1	1	2							4
Arabis glabra	*						1		5	1	3					1	12
Arabis hirsuta var. pycnocarpa	3							1	1						1		3
Arctostaphylos uva-ursi	6							2									2
Arenaria lanuginosa ssp. saxosa	NCA								1								1
Argentina anserina	3	2		2	3	2		1	4		3	2				1	20
Arnica cordifolia	7					1										1	2
Arnica fulgens	6											1					1
Arnica mollis	7					1	2				2					1	6
Artemisia arbuscula	7														1		1
Artemisia biennis	*				1												1
Artemisia campestris	7							1	1								2
Artemisia campestris ssp. borealis																	
var. borealis	5							1	1								2
Artemisia cana ssp. cana	5						1		4	1	1					1	8
Artemisia frigida	4	1				2			1	2		1					7
Artemisia ludoviciana	4											1					1
Artemisia tridentata	4														1		1
Astragalus alpinus	6				1	1		2	2	1							7
Astragalus bodinii	NCA				1						1						1
Astragalus hallii	NCA																1

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Values in table = number of plots  
species was present

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Astragalus leptaleus	8				1						1						2
Astragalus pubentissimus	NCA							1									1
Astragalus spatulatus	6								1								1
Axyris amaranthoides	*				2				1			1					4
Beckmannia syzigachne	4							2				3					5
Betula nana	9			2	1	2	3	4	2	5		1			1		21
Botrychium simplex	4									1							1
Bromus inermis ssp. inermis var. inermis	*							7	3						2	1	13
Bromus inermis ssp. pumpellianus var. pumpellianus	6					1	1	2	3	4		1			1		13
Bromus porteri	5							2	1								3
Calamagrostis canadensis	6				2	3	5	4	4	8		2		1	1		30
Calamagrostis stricta	7	1	1	5	3			2		2	1	1		2	1	1	20
Callitricha palustris	5				1						1						2
Caltha leptosepala ssp. leptosepala var. leptosepala	7					1	7	1		3				1	1		14
Campanula parryi	7			1	2			2	1		1						7
Campanula rotundifolia	5		1					3		1					1		6
Cardamine cordifolia	8					3		2	4	7		2			1		19
Carduus nutans ssp. macrolepis	*								1								1
Carex aquatilis	6	2	1	5	3	7	9	3	8	9	3	3	2		2	1	58
Carex athrostachya	7							1							1		2
Carex aurea	7		1		1	1				4	1				1	1	11
Carex canescens	8						6		2	4			2				14
Carex capillaris	9		1	3		1	1			2							6
Carex disperma	9							2			2					1	5
Carex douglasii	5		1									1					2
Carex ebenea	4					1		1		1							3

Floristic Quality Assessment Indices for Colorado Plant Communities

Values in table = number of plots  
species was present

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Carex foenea	6							2									2
Carex geyeri	6														1		1
Carex gynocrates	10						1										1
Carex illota	9							1									1
Carex interior	7		1					2		1				1			5
Carex lachenalii	10			1				1									1
Carex livida	10																1
Carex magellanica ssp. irrigua	9						1										1
Carex microglochin	9		2	1							1						4
Carex microptera	5						1		7	3	8	1		1	1	3	25
Carex nebrascensis	5					1	1		1							1	4
Carex nelsonii	9						1				3						4
Carex nigricans	8							2			1						2
Carex norvegica	8																1
Carex norvegica ssp. stevenii	8							1	1	3	2	7				1	15
Carex nova	10								1								1
Carex obtusata	8														1		1
Carex occidentalis	7									1							1
Carex pachystachya	NCA									1			1				3
Carex parryana	7		1	1	1												4
Carex pellita	6						2		2	2	1						8
Carex phaeocephala	9									1					1	1	3
Carex praegracilis	5						1		2	3	1			1		2	12
Carex praticola	6									1	1						2
Carex scirpoidea	9		2	3	1										1		7
Carex scopulorum	7							1			1						2
Carex simulata	6	1	2	6	2	4	2		3				1	1	2	1	25
Carex utriculata	5		1	3	4	7	4	5	6	6	3	2	3	1	4	1	50
Carex vesicaria	*					1											1
Carex viridula	9			1													1

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
<i>Carum carvi</i>	*							1									1
<i>Castilleja rhexiifolia</i>	8						1									1	2
<i>Castilleja sulphurea</i>	7					1			4	2	5			1			13
<i>Catabrosa aquatica</i>	7					1					1						2
<i>Cerastium arvense</i>	*									1							1
<i>Cerastium arvense</i> ssp. <i>strictum</i>	5					1			2	1	1						5
<i>Cerastium fontanum</i>	*					1			3		1				1		6
<i>Ceratophyllum demersum</i>	1		1	1				1									3
<i>Chamerion angustifolium</i> ssp. <i>circumvagum</i>	4					1	3		5	4	8			1		1	23
<i>Chamerion latifolium</i>	7							2		1							3
<i>Chenopodium album</i>	*					1				2		1			1	1	6
<i>Chenopodium atrovirens</i>	5					1											1
<i>Chenopodium leptophyllum</i>	5					1											1
<i>Chenopodium rubrum</i>	2					1											1
<i>Chrysanthemum viscidiflorus</i>	5														1		1
<i>Cicuta douglasii</i>	3								1								2
<i>Cirsium arvense</i>	*	1				1	1		6	6		2	1	1	2	2	1
<i>Cirsium canescens</i>	6					3			2								5
<i>Cirsium parryi</i>	5							1		1						1	3
<i>Cirsium scariosum</i>	6	2	1	2		2	1		5	4		2	2		1	1	23
<i>Coeloglossum viride</i> var. <i>virescens</i>	7						1										1
<i>Collomia linearis</i>	4							1							1		1
<i>Comarum palustre</i>	9						1										1
<i>Conioselinum scopulorum</i>	7		1	2		3	1	6	4	5	8	2		2		1	35
<i>Crepis runcinata</i> ssp. <i>runcinata</i>	6	1	2	2		3			1			2	1			1	13
<i>Danthonia intermedia</i>	8					1			3	1	1						5

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Danthonia parryi	8									1							1
Dasiphora floribunda	4	1	2	5	2	3	5	8	6	6	3		2	1	2	1	47
Delphinium barbeyi	7						2	1	1								4
Deschampsia caespitosa	4	1	2	6	4	6	6	5	8	7	3	3	2	2	3	2	60
Descurainia incana	2	1									2		2				1
Descurainia incana ssp. incisa	2				1					1				1			3
Descurainia pinnata	2				1			1			1			1			4
Descurainia sophia	*							2	1		1			1			5
Dodecatheon pulchellum	8	1	1	3	1	2		1	1	1	1						13
Draba aurea	7								1								1
Eleocharis palustris	4				1	1			1		1	2	1				7
Eleocharis quinqueflora	8	1	2	4	2	2	3		1								16
Elodea bifoliata	NCA				1												1
Elymus elymoides ssp. brevifolius	NCA							1									1
Elymus repens	*							2	1		1	1					5
Elymus trachycaulis	7				1												1
Elymus trachycaulis	4	2	1	2		1	2	3	4	2		1	2				21
Epilobium ciliatum ssp. ciliatum	4				2	4	2	5	2	4		2	1	1	1	2	26
Epilobium ciliatum ssp. glandulosum	4				1			1	4	4	5	1	1	1			18
Epilobium hornemannii	6					1	1		2	1							6
Epilobium lactiflorum	7						1			1							2
Epilobium leptophyllum	8	1	1	2	3	2	2		1	1	1	1	1				16
Epilobium saximontanum	6							1									1
Equisetum arvense	4				3	3	3	6	6	6		1	2		2	2	37
Equisetum hyemale var. affine	4				1						2						3
Equisetum laevigatum	4				1			1			1						3

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Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Equisetum variegatum var. variegatum	5			2	1	1	1										5
Ericameria nauseosa ssp. nauseosa var. glabrata	3								1								1
Ericameria parryi var. parryi	4							1							1		2
Erigeron elatior	7									1							1
Erigeron flagellaris	3							1	1								2
Erigeron formosissimus	6							1		1							2
Erigeron glabellus	6								1							1	3
Erigeron lonchophyllum	5		1	1	2	2		1	2		2	1		3			15
Erigeron peregrinus ssp. callianthemus	7						2	3		2					1		8
Erigeron subtrinervis	NCA						1										1
Eriogonum lonchophyllum	4														1		1
Eriogonum umbellatum	6							2		1						1	4
Eriophorum angustifolium	9	1	1	1				1									3
Erysimum cheiranthoides	3							1	1								3
Erysimum inconspicuum	NCA									1							1
Festuca arizonica	6		1							1							2
Festuca brachyphylla ssp. coloradensis	7						2	1	2	2							7
Festuca idahoensis	7							1									1
Festuca rubra	5			1			1	2		1					1		6
Festuca saximontana	7							1	1								2
Festuca thurberi	8								3	1	2						6
Fragaria virginiana ssp. glauca	5			1		1	2	4	3	8			3		1	1	24
Galium boreale	6			2				5	3	3							13
Galium trifidum ssp. subbiflorum	7				2	2	2		2	6		1	2			1	18

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Galium triflorum	7								1								1
Gaultheria humifusa	8						2										2
Gentiana affinis	8		1	1			1										10
Gentiana fremontii	9	1	2	2	1	1		2	2		3						10
Gentiana parryi	9				1					1	1						1
Gentiana prostrata	9			1													1
Gentianella amarella ssp. acuta	8	1	1	1	1	1				1	1	1					8
Gentianella amarella ssp. heterosepala	8							1		1							2
Gentianopsis thermalis	8	1	1	1	2	2	1			2	2						13
Geranium caespitosum var. caespitosum	4							1									1
Geranium richardsonii	6							2		3					1	1	7
Geranium viscosissimum var. incisum	5								1								1
Geum aleppicum	6															1	1
Geum macrophyllum var. perincisum	6				1	3	2	5	4	7	1		2		1	1	27
Geum rivale	5											1	2				1
Geum triflorum var. triflorum	7					1	1	4	1	4	1						12
Gilia ophthalmoides	6								1								1
Glaux maritima	7												1				1
Glyceria borealis	8								1								2
Glyceria grandis	6												1				1
Glyceria striata	6				1	1		4	1	2	1		2		2	1	15
Grindelia inornata	3								1				1				1
Gutierrezia sarothrae	3									2							2
Hackelia floribunda	3	1				1		3	2						1	1	10
Helenium autumnale var. montanum	5									1							1

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Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
<i>Helianthella parryi</i>	5								1								1
<i>Heracleum maximum</i>	6						1	3	1	2			1				8
<i>Hesperostipa comata</i>	6														1		1
<i>Hippuris vulgaris</i>	6				1	1			1				1				4
<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i>	*	1	1		2	3		4	6		2	2	1	2	2		26
<i>Hordeum jubatum</i> ssp. <i>jubatum</i>	2			1	2			1	1		1	2					8
<i>Hymenopappus filifolius</i> var. <i>parvulus</i>	NCA								1								1
<i>Hymenoxyx hoopesii</i>	5				1			1									2
<i>Hymenoxyx richardsonii</i> var. <i>richardsonii</i>	4							1	1								2
<i>Iris missouriensis</i>	4			1				3	4		1	1					11
<i>Juncus alpinoarticulatus</i>	9	1	1	2													4
<i>Juncus articulatus</i>	*				2												2
<i>Juncus balticus</i> var. <i>montanus</i>	4	2	2	4	5	6	1	7	7	4	3	1	3	2	4	1	52
<i>Juncus bufonius</i>	3							1									1
<i>Juncus compressus</i>	*					2	1									1	4
<i>Juncus confusus</i>	5							1	1								2
<i>Juncus drummondii</i>	6								1								1
<i>Juncus hallii</i>	NCA							1									1
<i>Juncus longistylis</i>	6		2		1	2		2	1	1		1		1	1	2	13
<i>Juncus mertensiana</i>	7					1			2							1	4
<i>Juncus saximontanus</i>	6								1								1
<i>Juncus tracyi</i>	6					3	2	4	1	2		1				1	14
<i>Juncus triglumis</i>	10									1							1
<i>Juncus vaseyi</i>	NCA									1							1
<i>Juniperus communis</i> var. <i>montana</i>	6							2							1		3
<i>Kalmia microphylla</i>	9					1											1

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Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
<i>Kobresia myosuroides</i>	9		1	3	1									1			6
<i>Kobresia simpliciuscula</i>	10	1	2	2													5
<i>Koeleria macrantha</i>	6	1	1	1	1	2		2		2	2			1	1		14
<i>Lactuca serriola</i>	*							1									1
<i>Lappula occidentalis</i> var. occidentalis	2								1								1
<i>Lemna minor</i>	2					1											1
<i>Lepidium campestre</i>	*							1						1			2
<i>Lepidium densiflorum</i>	*				2						1		1				4
<i>Lepidium ramosissimum</i>	2								1		1		1				3
<i>Leucanthemum vulgare</i>	*							1				1					2
<i>Ligusticum tenuifolium</i>	8								1		1					1	3
<i>Linaria vulgaris</i>	*							1									1
<i>Linum lewisii</i> var. <i>lewisii</i>	4								1			1	1				3
<i>Listera borealis</i>	9										1						1
<i>Lolium pratense</i>	*								2					1	1		4
<i>Lomatium dissectum</i> var. <i>multifidum</i>	7														1		1
<i>Lomatogonium rotatum</i>	9		2	1						1			1				5
<i>Lonicera involucrata</i> var. <i>involucrata</i>	7				2	3		4	3	3			2		1	2	20
<i>Lupinus argenteus</i>	5							1	1	1							3
<i>Lupinus caespitosus</i>	NCA							1									1
<i>Luzula comosa</i>	7									2							2
<i>Luzula parviflora</i>	7				2	4			3	7			1				18
<i>Luzula subcapitata</i>	8					1											1
<i>Maianthemum racemosum</i> ssp. <i>amplexicaule</i>	7					3			1	2						1	7
<i>Maianthemum stellatum</i>	7					1		4	3	2							10
<i>Melilotus officinalis</i>	*							2	1								3
<i>Mentha arvensis</i>	4							1	2				1				4
<i>Mertensia ciliata</i>	7				1		1	5	4	7	1		2			1	22

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Values in table = number of plots  
species was present

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
<i>Mimulus guttatus</i>	8			1		1	1		3	3							9
<i>Mitella pentandra</i>	9						2		1								3
<i>Moehringia lateriflora</i>	8								2	1							3
<i>Monarda pectinata</i>	5									1							1
<i>Moneses uniflora</i>	9															1	1
<i>Monolepis nuttalliana</i>	4					1				1							2
<i>Montia chamissoi</i>	8					1		3	1	1	5				1		12
<i>Muhlenbergia filiculmis</i>	4									1							1
<i>Muhlenbergia filiformis</i>	8		1			1			1	1			2			1	7
<i>Muhlenbergia richardsonis</i>	8		1	3		3	2		1				1			1	12
<i>Nassella viridula</i>	4															1	1
<i>Orthilia secunda</i>	8							2									2
<i>Orthocarpus luteus</i>	6			1													1
<i>Osmorrhiza depauperata</i>	7										6			1		1	1
<i>Oxypolis fendleri</i>	7							3								1	11
<i>Oxytropis deflexa</i> var. <i>sericea</i>	NCA								1								1
<i>Oxytropis sericea</i>	5						1		1								2
<i>Oxytropis splendens</i>	NCA									1							1
<i>Packera crocata</i>	6									2							2
<i>Packera dimorphophylla</i>	6								1								1
<i>Packera pauciflora</i>	9	1	2	2		1		1					2		1	1	9
<i>Packera pseudaea</i>	7		1			1		2				2	2			1	11
<i>Packera pseudaea</i> var. <i>pseudaea</i>	7									1							1
<i>Packera streptanthifolia</i>	8								1								1
<i>Parnassia fimbriata</i>	8							1			1						2
<i>Parnassia palustris</i> var. <i>parviflora</i>	7	1	2	5		2		1			2						13
<i>Pascopyrum smithii</i>	5	1								1							2
<i>Pedicularis crenulata</i>	7			2		2	1							1			6
<i>Pedicularis groenlandica</i>	8	1	1	3		2	2	7	3	3	6						28

Floristic Quality Assessment Indices for Colorado Plant Communities

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Pedicularis parryi	9								1						1		2
Penstemon auriberbis	7										1						1
Penstemon procerus var. procerus	6							1	2								3
Penstemon rydbergii	7							1		3							4
Penstemon unilateralis	NCA							1	1								2
Phalaris arundinacea	*							1									1
Phleum alpinum	6		1		1	2		3	2	8	1		1				19
Phleum pratense	*				3	2		6	2	1	1	1		2	2		20
Phlox longifolia	6										1						1
Picea engelmannii	5				1	1	4		1	1					1	1	10
Picea pungens	6		2			1	4	1	1	5					1		15
Pinus contorta var. latifolia	5				1	1	1	4	3	5							15
Plantago eriopoda	5	1				1			1		1						4
Plantago major	*							1			2		1				4
Plantago tweedyi	5								1								1
Platanthera dilatata var. albiflora	8					3				1						1	5
Platanthera hyperborea var. hyperborea	7		1	3	1	3	2	1						1		1	13
Platanthera stricta	8			1			1	1	3								6
Poa alpina	7							3		3		1					6
Poa arctica	7										1				1		2
Poa arida	5	1															1
Poa cusickii ssp. pallida	6				1		1	1	2			1		1			7
Poa fendleriana	7				1					1							2
Poa glauca ssp. rupicola	7				1		1			1							3
Poa leptocoma	8					2		1		5						1	9
Poa nemoralis ssp. interior	6				1							1	1	1			1
Poa palustris	6				1		1	5	2	3							15

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		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Poa pratensis	*	1	1		2	4	1	8	8	3	3		1	2	2	1	37
Poa pratensis ssp. pratensis	4							1		2				1			4
Poa reflexa	8								1				1		1		3
Poa secunda	6				3			1	1			1					6
Polemonium	6						1										1
Polemonium foliosissimum	7				1		1	1	1	3							7
Polemonium occidentale ssp. occidentale	8					1	2	1	1	1				2			8
Polemonium pulcherrimum ssp. delicatum	8								1								1
Polygonum achoreum	*											1					1
Polygonum amphibium var. emersum	4												1				1
Polygonum bistortoides	7						1		1	4						1	7
Polygonum douglasii	3				1			2	1	2							6
Polygonum viviparum	8		1	4	2	2	4	3	3	6	1		2	1	1		30
Populus angustifolia	5										1					1	1
Populus tremuloides	5		1													1	3
Potamogeton epihydrus	5			1	1						1						3
Potentilla biennis	4												1		1		2
Potentilla diversifolia	6		1				3				1	2					7
Potentilla gracilis var. glabrata	NCA														1		1
Potentilla hippiana	5	1			1			1			1			1			5
Potentilla norwegica	*							4	1						1		6
Potentilla pensylvanica	6		1	2	1	1			1					1			8
Potentilla plattensis	7			1	2				2		1						6
Potentilla pulcherrima	5						1	5	2	3	1			1	2		15
Potentilla rivalis	5							2									2

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Potentilla subjugata	8				1			1									2
Primula egaliksensis	10		1	3	1												5
Primula incana	9			1												1	2
Primula parryi	8									1							1
Prunella vulgaris	4															1	1
Pseudocymopterus montanus	6					1		1									2
Pseudoroegneria spicata ssp. inermis	7															1	1
Pseudoroegneria spicata ssp. spicata	7		1		2	1		3	2		2					1	12
Ptilagrostis porteri	10						1										1
Puccinellia nuttalliana	6				1						1						2
Pyrola asarifolia ssp. asarifolia	8						2										2
Pyrola minor	8								2							1	3
Pyrocoma clementis	6		1														1
Pyrrocoma lanceolata	NCA					1											3
Ranunculus cymbalaria	4		1	1	3	3			2			1	1				14
Ranunculus gmelinii	6				1				2								3
Ranunculus hyperboreus	8				2	1	1			2							6
Ranunculus macounii	7					1		2								1	4
Ranunculus pedatifidus	7								1								1
Ranunculus repens	*							1									1
Ranunculus trichophyllum var. trichophyllum	10								1								1
Rhodiola integrifolia	8									1							2
Rhodiola rhodantha	8		1		1	1	6				6					1	18
Ribes cereum	6									1							1
Ribes inerme	5				1			1	2								4
Ribes lacustre	7			1				1		1						1	4
Ribes montigenum	6			1				1	1	1						1	6

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Rorippa curvipes	5				1												1
Rorippa nasturtium-aquaticum	*								1								1
Rorippa palustris	NCA					1			2			1		1		1	6
Rorippa palustris ssp. hispida	NCA								1								1
Rorippa sinuata	4							2	1		1				1		5
Rorippa sphaerocarpa	4							3	1	1				1	1		2
Rosa woodsii	5							1	1						1		6
Rubus idaeus ssp. strigosus	5							1									2
Rumex acetosella	*							1									1
Rumex aquaticus var. fenestratus	5				1	1	2				1	1			1		7
Rumex crispus	*							3	1		1						5
Rumex densiflorus	5							1	2	1				1			6
Rumex obtusifolius	*							1									1
Rumex salicifolius var. denticulatus	4									1							1
Rumex salicifolius var. mexicanus	4								1	2						1	4
S.monticola x S. planifolia	NCA			1													1
Sagina saginoides	7									1	4						5
Salix boothii	7															1	1
Salix brachycarpa	8	1	2	5	3	1	1	2	2	1	3			1	1		23
Salix candida	9	1	1	4	1		1										8
Salix drummondiana	6				1	1		4	2	4				2			14
Salix eriocephala	6				1			2	2	1				1			7
Salix exigua	3							1	2							1	4
Salix geyeriana	6				1	1	3	6	2	4	1		2		2	1	25
Salix lucida ssp. lasiandra	6						1										1
Salix monticola	6	1		3	2	2	1	8	7	6		1	3	1	1	1	37
Salix myrtillifolia	6		1	4			1				1			1			8

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<i>Salix planifolia</i>	7	1	1	5	3	4	9	2	4	7	1	2		1	2	2	44
<i>Salix planifolia</i>	7				1												1
<i>Salix wolfii</i>	8				1	2	5	4	2	4		1					19
<i>Salsola tragus</i>	*				1												1
<i>Saxifraga hirculus</i>	9		1			1											2
<i>Saxifraga odontoloma</i>	8				1	3			5			1			1		11
<i>Saxifraga oregana</i>	8					2								1			3
<i>Schoenoplectus pungens</i>	4		1														1
<i>Scutellaria galericulata</i>	7													2			2
<i>Senecio bigelovii</i> var. <i>hallii</i>	7					1			2								3
<i>Senecio eremophilus</i> var. <i>kingii</i>	4							2				1					3
<i>Senecio hydrophilus</i>	6							1	1				1				3
<i>Senecio integerrimus</i>	5		1						1								2
<i>Senecio serra</i> var. <i>admirabilis</i>	7											1					1
<i>Senecio triangularis</i>	7				1	4		2	7			1			1		16
<i>Sidalcea neomexicana</i>	5							1									1
<i>Sisyrinchium montanum</i>	6		1								1	1			1		5
<i>Sisyrinchium pallidum</i>	7		1								1	1					3
<i>Sium suave</i>	6				1			1						1			3
<i>Solanum triflorum</i>	2								1						1		1
<i>Solidago canadensis</i>	5							1			1				1		3
<i>Solidago multiradiata</i> var. <i>scopulorum</i>	5							3	1	3							7
<i>Sparagnum angustifolium</i>	7								1	1							2
<i>Spartina gracilis</i>	7										1						1
<i>Sphagnum</i> sp.	*				1												1
<i>Spiranthes romanzoffiana</i>	7	1	1	1				1	2				1				3
<i>Stellaria calycantha</i>	8				1			1	2					1			5
<i>Stellaria crassifolia</i>	7					1	2		3	5							11

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
<i>Stellaria graminea</i>	*													1	2		1
<i>Stellaria longifolia</i>	7				1	2	4	5	2	4			2				22
<i>Stellaria longipes</i>	8			1		1		1		1	2	1					7
<i>Stuckenia pectinatus</i>	3	1	1	1		1			1								5
<i>Swertia perennis</i>	8					2	8		2	4		1			1		18
<i>Symphyotrichum ascendens</i>	5							2					1				3
<i>Symphyotrichum boreale</i>	7				1							1					1
<i>Symphyotrichum campestre</i> var. <i>campestre</i>	NCA										1						1
<i>Symphyotrichum foliaceum</i> var. <i>foliaceum</i>	5	2				2	2	5	1	2			1				15
<i>Symphyotrichum laeve</i> var. <i>geyeri</i>	6			1													1
<i>Symphyotrichum lanceolatum</i> ssp. <i>hesperium</i> var. <i>hesperium</i>	5				1			4	3	4	2		1				15
<i>Symphyotrichum spathulatum</i> var. <i>spathulatum</i>	6		2		4	4	2	4	1	1	2	1		1	1		16
<i>Taraxacum officinale</i>	*	1	1		4	4	2	9	8	7	3	2	2	1	4	1	49
<i>Thalictrum alpinum</i>	8	1	2	4	2	1	3	4	2	4	2			1	1		27
<i>Thalictrum fendleri</i>	6							3	1	1							5
<i>Thalictrum sparsiflorum</i>	5								1								1
<i>Thelypodium integrifolium</i>	6					1		1							1		3
<i>Thelypodium wrightii</i> ssp. <i>oklahomense</i>	7										1						1
<i>Thermopsis montana</i>	6							1	2		1	1					3
<i>Thlaspi arvense</i>	*					1		3	2		1	1		1	1	1	11
<i>Thlaspi montanum</i> var. <i>montanum</i>	5							1	1								2

Floristic Quality Assessment Indices for Colorado Plant Communities

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			Total # of Plots
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
<i>Tragopogon dubius</i>	*					1		1						1	1		4
<i>Tragopogon pratensis</i>	*				1						1						2
<i>Trichophorum pumilum</i>	10			2													2
<i>Trifolium parryi</i>	8								1								1
<i>Trifolium pratense</i>	*							2	1					1	1		5
<i>Trifolium repens</i>	*				3	2	1	4	2	1				1			14
<i>Triglochin maritimum</i>	6	1	2	4	2	1			2			2					14
<i>Triglochin palustre</i>	7	1	2	6	3	1		3	1				2		1		20
<i>Tripleurospermum perforata</i>	*							4									4
<i>Trisetum spicatum</i>	7					1		4	1	3							9
<i>Trisetum wolfii</i>	7						3	1		2		1			1		8
<i>Trollius laxus</i> ssp. <i>albiflorus</i>	8						2								1		3
<i>Typha angustifolia</i>	*					1											1
<i>Urtica dioica</i> ssp. <i>holosericea</i>	3							1									1
<i>Urtica gracilis</i> Aiton subsp. <i>gracilis</i>	3								1						1		2
<i>Utricularia macrorhiza</i>	7		1	1	1		1		1								5
<i>Utricularia ochroleuca</i>	10		1	1													2
<i>Vaccinium caespitosum</i>	7						3		1	2			1			1	8
<i>Vaccinium myrtillus</i> var. <i>oreophilum</i>	6						3			1							4
<i>Vaccinium scoparium</i>	7						2								1		3
<i>Valeriana acutiloba</i> var. <i>acutiloba</i>	8							1	1				1				3
<i>Valeriana edulis</i>	7			1			1	4	2			3			1		12
<i>Valeriana occidentalis</i>	7							1		4							5
<i>Veratrum tenuipetalum</i>	4									1						1	2
<i>Verbascum thapsus</i>	*							1									1
<i>Veronica americana</i>	6					1	1	1	4	5	1		2			1	16

Floristic Quality Assessment Indices for Colorado Plant Communities

Species	C Value <sup>20</sup>	Extremely Rich Fen			Fen			Riparian Shrubland			Riverine Wet Meadow			Slope Wet Meadow			<b>Total # of Plots</b>
		Hig Imp <sup>21</sup>	Imp <sup>22</sup>	Ref <sup>23</sup>	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	Hig Imp	Imp	Ref	
Veronica anagallis-aquatica	*								1								1
Veronica serpyllifolia ssp. humifusa	6									3							3
Veronica wormskjoldii	7				1	3			1	6			1		1		13
Vicia americana	6							6	1	3				1	1		12
Vicia ludoviciana ssp. ludoviciana	7							1	1								2
Viola macloskeyi ssp. pallens	NCA				1												1
Viola renifolia	7					1			1	1			1				4
Viola sororia	8						3				1		1		1		6
Zigadenus elegans ssp. elegans	6		1	2											1		4
<b>Grand Total</b>		<b>52</b>	<b>97</b>	<b>233</b>	<b>227</b>	<b>234</b>	<b>295</b>	<b>546</b>	<b>468</b>	<b>537</b>	<b>154</b>	<b>85</b>	<b>134</b>	<b>70</b>	<b>146</b>	<b>115</b>	<b>3393</b>

## APPENDIX E: COEFFICIENTS OF CONSERVATISM FOR COLORADO FLORA

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
5	<i>Abies concolor</i>	<i>Abies concolor</i> (Gordon & Glendower) Lindley ex Hildebrand	Pinaceae	Tree	NI	FACU
5	<i>Abies lasiocarpa</i>	<i>Abies lasiocarpa</i> (Hooker) Nuttall	Pinaceae	Tree	NI	FACU
5	<i>Abies lasiocarpa</i> var. <i>arizonica</i>	<i>Abies arizonica</i> Merriam	Pinaceae	Tree	NO	FACU
Not Assigned	<i>Abronia argilllosa</i>	<i>Abronia argilllosa</i> Welsh & Goodrich	Nyctaginaceae	Forb	NO	UPL
Not Assigned	<i>Abronia carletonii</i>	<i>Abronia carletonii</i> Coulter & Fisher	Nyctaginaceae	Forb	UPL	UPL
4	<i>Abronia elliptica</i>	<i>Abronia elliptica</i> A. Nelson	Nyctaginaceae	Forb	NO	UPL
6	<i>Abronia fragrans</i>	<i>Abronia fragrans</i> Nuttall ex Hooker	Nyctaginaceae	Forb	UPL	UPL
Not Assigned	<i>Abronia nana</i>	<i>Abronia nana</i> S. Watson	Nyctaginaceae	Forb	NO	UPL
Not Assigned	<i>Abutilon incanum</i>	<i>Abutilon incanum</i> (Link) Sweet	Malvaceae	Shrub		
Not Assigned	<i>Abutilon parvulum</i>	<i>Abutilon parvulum</i> A. Gray	Malvaceae	Forb	UPL	NO
*	<i>Abutilon theophrasti</i>	<i>Abutilon theophrasti</i> Medicus	Malvaceae	Forb	UPL	UPL
7	<i>Acer glabrum</i>	<i>Acer glabrum</i> Torrey	Aceraceae	Shrub	FAC	FAC
10	<i>Acer grandidentatum</i>	<i>Acer grandidentatum</i> Nuttall ex Torrey & Gray	Aceraceae	Shrub	FACU	FACU
*	<i>Acer negundo</i>	<i>Negundo aceroides</i> (L.) Moench	Aceraceae	Tree	FAC	FACW
		<i>Negundo aceroides</i> (L.) Moench subsp. <i>violaceus</i> (Kirchner in Petzold & Kirchner) W. A. Weber	FAC	Aceraceae	Tree	FAC*
7	<i>Acer negundo</i> var. <i>interius</i>	<i>Negundo aceroides</i> (L.) Moench subsp. <i>interius</i> (Britton & Shafer) Loeve & Loeve	Aceraceae	Tree	FAC	FACW
*	<i>Achillea millefolium</i>	<i>Achillea millefolium</i> L.	Asteraceae	Forb	FACU	FACU
4	<i>Achillea millefolium</i> var. <i>occidentalis</i>	<i>Achillea lanulosa</i> Nuttall	Asteraceae	Forb	FACU	FACU
10	<i>Achnatherum ×bloomeri</i>	<i>Achnatherum x bloomeri</i> (Bolander) Barkworth	Poaceae	Graminoid		
7	<i>Achnatherum aridum</i>	<i>Achnatherum aridum</i> (Jones) Barkworth	Poaceae	Graminoid	UPL	UPL
5	<i>Achnatherum hymenoides</i>	<i>Achnatherum hymenoides</i> - (Roemer & J.A. Schultes) Barkworth	Poaceae	Graminoid	FACU	UPL
6	<i>Achnatherum lettermanii</i>	<i>Achnatherum lettermanii</i> (Vasey) Barkworth	Poaceae	Graminoid		

<sup>24</sup> C value with \* = non-native species to Colorado<sup>25</sup> Red Wetland Indicator Status = tentatively assigned by author or Colorado Floristic Quality Assessment Panel

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
6	<i>Achnatherum nelsonii</i>	<i>Achnatherum nelsonii</i> (Scribnér) Barkworth	Poaceae	Graminoid		
6	<i>Achnatherum nelsonii</i> ssp. <i>nelsonii</i>	<i>Stipa williamsii</i> Scribnér	Poaceae	Graminoid		
6	<i>Achnatherum pinetorum</i>	<i>Achnatherum pinetorum</i> (Jones) Barkworth	Poaceae	Graminoid		
6	<i>Achnatherum richardsonii</i>	<i>Achnatherum richardsonii</i> (Link) Barkworth	Poaceae	Graminoid	NO	NI
3	<i>Achnatherum robustum</i>	<i>Achnatherum robustum</i> (Vasey) Barkworth	Poaceae	Graminoid		
7	<i>Achnatherum scribneri</i>	<i>Achnatherum scribneri</i> (Vasey) Barkworth	Poaceae	Graminoid		
8	<i>Achnatherum speciosum</i>	<i>Achnatherum speciosum</i> (Trinius & Ruprecht) Barkworth	Poaceae	Graminoid		
<b>Not Assigned</b>	<i>Achnatherum webberi</i>	<i>Achnatherum webberi</i> (Thurber) Barkworth	Poaceae	Graminoid		
8	<i>Aconitum columbianum</i>	<i>Aconitum columbianum</i> Nuttall ex Torrey & Gray	Ranunculaceae	Forb	FACW	FACW
		<i>Aconitum columbianum</i> Nuttall ex Torrey & Gray var. <i>columbianum</i>	FACW	Ranunculaceae	Forb	FACW
8	<i>Aconitum columbianum</i> ssp. <i>columbianum</i>	<i>Aconitum columbianum</i> Nuttall ex Torrey & Gray var. <i>bakeri</i> (Greene) Harrington	Ranunculaceae	Forb	FACW	FACW
5	<i>Acorus calamus</i>	<i>Acorus calamus</i> L.	Acoraceae	Forb	OBL	OBL
*	<i>Acroptilon repens</i>	<i>Acroptilon repens</i> (L.) De Candolle	Asteraceae	Forb		
9	<i>Actaea rubra</i> ssp. <i>arguta</i>	<i>Actaea rubra</i> (Aiton) Willdenow subsp. <i>arguta</i> (Nuttall in Torrey & Gray) Hulten	Ranunculaceae	Forb		
9	<i>Adiantum capillus-veneris</i>	<i>Adiantum capillus-veneris</i> L.	Pteridaceae	Forb	NO	FACW
10	<i>Adoxa moschatellina</i>	<i>Adoxa moschatellina</i> L.	Adoxaceae	Forb	NI	FACU
*	<i>Aegilops cylindrica</i>	<i>Cylindropyrum cylindricum</i> (Host) Loeve	Poaceae	Graminoid		
10	<i>Agalinis tenuifolia</i>	<i>Agalinis tenuifolia</i> (M. Vahl) Rafinesque	Scrophulariaceae	Forb	FACW	NI
3	<i>Agastache foeniculum</i>	<i>Agastache foeniculum</i> Kuntze	Lamiaceae	Forb		
5	<i>Agastache pallidiflora</i> ssp. <i>pallidiflora</i>	<i>Agastache pallidiflora</i> (Heller) Rydberg subsp. <i>pallidiflora</i> var. <i>greenei</i> (Briquet) R. Sanders	Lamiaceae	Forb		
5	<i>Agastache urticifolia</i>	<i>Agastache urticifolia</i> (Bentham) Kuntze	Lamiaceae	Forb	NI	NI
<b>Not Assigned</b>	<i>Ageratina herbacea</i>	<i>Ageratina herbacea</i> (A. Gray) King & Robinson	Asteraceae	Forb		
6	<i>Agoseris aurantiaca</i>	<i>Agoseris aurantiaca</i> (Hooker) Greene	Asteraceae	Forb	NI	FACU
6	<i>Agoseris glauca</i>	<i>Agoseris glauca</i> (Pursh) Rafinesque	Asteraceae	Forb	FACU	FACU
		<i>Agoseris glauca</i> (Pursh) Rafinesque var. <i>glauca</i>	FACU	Asteraceae	Forb	FACU
<b>Not Assigned</b>	<i>Agoseris glauca</i> var. <i>agrestis</i>	<i>Agoseris glauca</i> (Pursh) Rafinesque var. <i>agrestis</i> (Osterhout) Q. Jones ex Cronquist	Asteraceae	Forb	FACU	FACU

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
7	<i>Agoseris glauca</i> var. <i>dasycephala</i>	<i>Agoseris glauca</i> (Pursh) Rafinesque var. <i>dasycephala</i> (Torrey & Gray) Jepson	Asteraceae	Forb	FACU	FACU
7	<i>Agoseris glauca</i> var. <i>laciniata</i>	<i>Agoseris glauca</i> (Pursh) Rafinesque var. <i>laciniata</i> (D. C. Eaton) Smiley	Asteraceae	Forb	FACU	FACU
Not Assigned	<i>Agoseris heterophylla</i>	<i>Agoseris heterophylla</i> (Nuttall) Greene	Asteraceae	Forb		
7	<i>Agrimonia striata</i>	<i>Agrimonia striata</i> Michaux	Rosaceae	Forb	FACU	FAC
*	<i>Agropyron cristatum</i>	<i>Agropyron cristatum</i> (L.) Gaertner (sensu lato)	Poaceae	Graminoid		
		<i>Agropyron cristatum</i> (L.) Gaertner subsp. <i>cristatum</i>	Poaceae	Graminoid		
*	<i>Agropyron cristatum</i> ssp. <i>pectinatum</i>	<i>Agropyron pectiniforme</i> Roemer & Schultes	Poaceae	Graminoid		
*	<i>Agropyron desertorum</i>	<i>Agropyron cristatum</i> (L.) Gaertner subsp. <i>desertorum</i> (Fischer) Loeve	Poaceae	Graminoid		
		<i>Agropyron desertorum</i> Fischer ex Link	Poaceae	Graminoid		
*	<i>Agropyron fragile</i>	<i>Agropyron cristatum</i> (L.) Gaertner subsp. <i>fragile</i> (Roth) Loeve	Poaceae	Graminoid		
		<i>Agropyron mongolicum</i> Keng	Poaceae	Graminoid		
*	<i>Agrostemma brachyloba</i>	<i>Agrostemma gracilis</i> Boissier. A waif in a Boulder garden. Not seen again.	Caryophyllaceae	Forb		
*	<i>Agrostis exarata</i>	<i>Agrostis exarata</i> Trinius	Poaceae	Graminoid	FACW	FACW
*	<i>Agrostis gigantea</i>	<i>Agrostis gigantea</i> Roth	Poaceae	Graminoid	NI	FACW
10	<i>Agrostis humilis</i>	<i>Agrostis humilis</i> Vasey	Poaceae	Graminoid	FACW	OBL
		<i>Agrostis thurberiana</i> A. S. Hitchcock	NI	Poaceae	Graminoid	FACW
Not Assigned	<i>Agrostis idahoensis</i>	<i>Agrostis idahoensis</i> Nash	Poaceae	Graminoid	NI	FAC
Not Assigned	<i>Agrostis mertensii</i>	<i>Agrostis mertensii</i> Trinius	Poaceae	Graminoid	NI	FACU
4	<i>Agrostis scabra</i>	<i>Agrostis scabra</i> Willdenow	Poaceae	Graminoid	FAC	FAC
*	<i>Agrostis stolonifera</i>	<i>Agrostis stolonifera</i> L.	Poaceae	Graminoid	FAC+	FACW
4	<i>Agrostis variabilis</i>	<i>Agrostis variabilis</i> Rydberg	Poaceae	Graminoid		
*	<i>Ailanthus altissima</i>	<i>Ailanthus altissima</i> (P. Miller) Swingle	Simaroubaceae	Tree	NI	NI
*	<i>Alcea rosea</i>	<i>Alcea rosea</i> L.	Malvaceae	Forb		
7	<i>Aletes acaulis</i>	<i>Aletes acaulis</i> (Torrey) Coulter & Rose	Apiaceae	Forb		
6	<i>Aletes anisatus</i>	<i>Aletes anisatus</i> (A. Gray) Theobald & Tseng	Apiaceae	Forb		
7	<i>Aletes humilis</i>	<i>Aletes humilis</i> Coulter & Rose	Apiaceae	Forb		

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
10	Aletes macdougalii ssp. breviradiatus	Aletes macdougalii Coulter & Rose subsp. breviradiatus Theobald & Tseng	Apiaceae	Forb		
10	Aletes sessiliflorus	Aletes sessiliflorus Theobald & Tseng	Apiaceae	Forb		
*	Alhagi maurorum	Alhagi maurorum Medikus	Fabaceae	Shrub	NO	NI
4	Alisma gramineum	Alisma gramineum Lejeune	Alismataceae	Forb	OBL	OBL
3	Alisma triviale	Alisma triviale Pursh	Alismataceae	Forb	OBL	OBL
*	Alliaria petiolata	Alliaria petiolata (Bieberstein) Cavara & Grande	Brassicaceae	Forb	FACW	NI
Not Assigned	Allionia choisyi	Allionia choisyi Standley	Nyctaginaceae	Forb		
6	Allionia incarnata	Allionia incarnata L.	Nyctaginaceae	Forb		
8	Allium acuminatum	Allium acuminatum Hooker	Liliaceae	Forb		
Not Assigned	Allium brandegeei	Allium brandegeei S. Watson	Liliaceae	Forb		
8	Allium brevistylum	Allium brevistylum S. Watson	Liliaceae	Forb		
5	Allium cernuum	Allium cernuum Roth	Liliaceae	Forb	NI	FACU*
5	Allium geyeri	Allium geyeri S. Watson	Liliaceae	Forb	FACU	FACU
5	Allium geyeri var. tenerum	Allium rubrum Osterhout	Liliaceae	Forb		
7	Allium macropetalum	Allium macropetalum Rydberg	Liliaceae	Forb		
8	Allium nevadense	Allium nevadense S. Watson	Liliaceae	Forb		
*	Allium sativum	Allium sativum L.	Liliaceae	Forb		
7	Allium schoenoprasum var. sibiricum	Allium schoenoprasum L. var. sibiricum (L.) C. J. Hartman	Liliaceae	Forb	NO	FACW
5	Allium textile	Allium textile Nelson & Macbride	Liliaceae	Forb		
4	Almutaster pauciflorus	Almutaster pauciflorus (Nuttall) Loeve & Loeve	Asteraceae	Forb	FACW	FACW
6	Alnus incana ssp. tenuifolia	Alnus incana (L.) Moench subsp. tenuifolia (Nuttall) Breitung	Betulaceae	Shrub	NI	FACW
4	Alopecurus aequalis	Alopecurus aequalis Sobolewski	Poaceae	Graminoid	OBL	OBL
7	Alopecurus alpinus	Alopecurus alpinus L. subsp. glaucus (Lessing) Hulten	Poaceae	Graminoid	NO	FACW
*	Alopecurus carolinianus	Alopecurus carolinianus Walter	Poaceae	Graminoid	FACW	FACW
*	Alopecurus geniculatus	Alopecurus geniculatus L.	Poaceae	Graminoid	OBL	OBL
*	Alopecurus pratensis	Alopecurus pratensis L.	Poaceae	Graminoid	FACW	NI
*	Alyssum alyssoides	Alyssum alyssoides L.	Brassicaceae	Forb		
*	Alyssum desertorum	Alyssum desertorum Stapf	Brassicaceae	Forb		
*	Alyssum minus var. micranthum	Alyssum parviflorum Bieberstein	Brassicaceae	Forb		

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
*	Alyssum murale	Alyssum murale Waldstein & Kitaibel	Brassicaceae	Forb		
*	Amaranthus albus	Amaranthus albus L.	Amaranthaceae	Forb	FACU	FACU
		Amaranthus pubescens (Uline & Bray) Rydberg	FACU	Amaranthaceae	Forb	FACU
5	Amaranthus arenicola	Amaranthus arenicola I. M. Johnston	Amaranthaceae	Forb	FACU	FAC
4	Amaranthus blitoides	Amaranthus blitoides S. Watson	Amaranthaceae	Forb	FACW	FACU
<b>Not Assigned</b>	Amaranthus hybridus	Amaranthus hybridus L.	Amaranthaceae	Forb		
*	Amaranthus palmeri	Amaranthus palmeri S. Watson	Amaranthaceae	Forb	FACU	FACU
5	Amaranthus powellii	Amaranthus powellii S. Watson	Amaranthaceae	Forb		
*	Amaranthus retroflexus	Amaranthus retroflexus L.	Amaranthaceae	Forb	FACU	FACU
6	Amaranthus wrightii	Amaranthus wrightii S. Watson	Amaranthaceae	Forb		
4	Ambrosia acanthicarpa	Ambrosia acanthicarpa Hooker	Asteraceae	Forb		
*	Ambrosia artemisiifolia var. elatior	Ambrosia artemisiifolia L. var. elatior (L.) Descourtils	Asteraceae	Forb	FACU	FACU
6	Ambrosia confertiflora	Ambrosia confertiflora De Candolle	Asteraceae	Forb		
0	Ambrosia grayi	Ambrosia grayi (A. Nelson) Shinners	Asteraceae	Forb	FAC	NO
4	Ambrosia linearis	Ambrosia linearis (Rydberg) Payne	Asteraceae	Shrub		
3	Ambrosia psilostachya	Ambrosia psilostachya De Candolle var. coronopifolia (Torrey & Gray) Farwell	Asteraceae	Forb	FAC	FACU*
3	Ambrosia tomentosa	Ambrosia tomentosa Nuttall	Asteraceae	Forb		
*	Ambrosia trifida	Ambrosia trifida L.	Asteraceae	Forb	FACW	FAC*
6	Amelanchier alnifolia	Amelanchier alnifolia Nuttall	Rosaceae	Shrub	FACU-	FACU-
6	Amelanchier utahensis	Amelanchier utahensis Koehne	Rosaceae	Shrub	NI	NI
<b>Not Assigned</b>	Ammannia robusta	Ammannia robusta Heer & Regel	Lythraceae	Forb	OBL	OBL
10	Amorpha canescens	Amorpha canescens Pursh	Fabaceae	Shrub		
7	Amorpha fruticosa	Amorpha fruticosa L.	Fabaceae	Shrub	OBL	FACW
7	Amorpha nana	Amorpha nana Nuttall	Fabaceae	Shrub	NI	NI
*	Amsinckia lycopoides	Amsinckia lycopoides Lehmann	Boraginaceae	Forb		
*	Amsinckia menziesii	Amsinckia menziesii (Lehmann) Nelson & Macbride	Boraginaceae	Forb		
*	Amsinckia menziesii var. menziesii	Amsinckia retrorsa Suksdorf	Boraginaceae	Forb		
10	Amsonia jonesii	Amsonia jonesii Woodson	Apocynaceae	Forb		
*	Anagallis arvensis ssp. foemina	Anagallis arvensis L. fma coerulea (Schreb.) Baumgartner	Primulaceae	Forb	FAC	FAC+

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<b>Not Assigned</b>	<i>Anagallis minima</i>	<i>Anagallis minima</i> (L.) Krause in Sturm	Primulaceae	Forb		OBL
<b>4</b>	<i>Anaphalis margaritacea</i>	<i>Anaphalis margaritacea</i> (L.) Bentham & Hooker	Asteraceae	Forb		
*	<i>Anchusa azurea</i>	<i>Anchusa azurea</i> P. Miller	Boraginaceae	Forb		
*	<i>Anchusa officinalis</i>	<i>Anchusa officinalis</i> L.	Boraginaceae	Forb		
<b>9</b>	<i>Andropogon gerardii</i>	<i>Andropogon gerardii</i> Vitman	Poaceae	Graminoid	FAC-	FACU
<b>8</b>	<i>Andropogon hallii</i>	<i>Andropogon hallii</i> Hackel	Poaceae	Graminoid		
		<i>Androsace chamaejasme</i> Host subsp. <i>carinata</i> (Torrey) Hulten				
<b>9</b>	<i>Androsace chamaejasme</i> ssp. <i>carinata</i>	( <i>Androsace chamaejasme</i> Host subsp. <i>carinata</i> (Torrey) Hulten)	Primulaceae	Forb	NO	FACU
<b>8</b>	<i>Androsace filiformis</i>	<i>Androsace filiformis</i> Retzius	Primulaceae	Forb	NI	OBL
<b>9</b>	<i>Androsace occidentalis</i>	<i>Androsace occidentalis</i> Pursh	Primulaceae	Forb	FACU	FACU
<b>6</b>	<i>Androsace septentrionalis</i>	<i>Androsace septentrionalis</i> L.	Primulaceae	Forb	NI	FACU
<b>8</b>	<i>Androstaphyllum breviflorum</i>	<i>Androstaphyllum breviflorum</i> S. Watson	Liliaceae	Forb		
<b>8</b>	<i>Anemone canadensis</i>	<i>Anemonidium canadense</i> (L.) Loeve & Loeve	Ranunculaceae	Forb	FACW	NI
<b>5</b>	<i>Anemone cylindrica</i>	<i>Anemone cylindrica</i> A. Gray	Ranunculaceae	Forb		
<b>10</b>	<i>Anemone multifida</i>	<i>Anemone multifida</i> Poiret	Ranunculaceae	Forb		
		<i>Anemone multifida</i> Poiret var. <i>globosa</i> (Nuttall) Torrey & Gray				
<b>10</b>	<i>Anemone multifida</i> var. <i>hudsoniana</i>	( <i>Anemone multifida</i> Poiret var. <i>globosa</i> (Nuttall) Torrey & Gray)	Ranunculaceae	Forb		
<b>10</b>	<i>Anemone multifida</i> var. <i>saxicola</i>	<i>Anemone multifida</i> Poiret subsp. <i>saxicola</i> (Boivin) W. A. Weber	Ranunculaceae	Forb		
<b>10</b>	<i>Anemone narcissiflora</i> var. <i>zephyra</i>	<i>Anemonastrum narcissiflorum</i> (L.) Holub subsp. <i>zephyrum</i> (A. Nelson) W. A. Weber	Ranunculaceae	Forb		
<b>6</b>	<i>Anemone parviflora</i>	<i>Anemone parviflora</i> Michaux	Ranunculaceae	Forb	NO	FACU
<b>10</b>	<i>Anemone virginiana</i> L. var. <i>alba</i>	<i>Anemone riparia</i> Fernald	Ranunculaceae	Forb	NI	
*	<i>Anemopsis californica</i>	<i>Anemopsis californica</i> Hooker	Saururaceae	Forb	NI	OBL
<b>4</b>	<i>Angelica ampla</i>	<i>Angelica ampla</i> A. Nelson	Apiaceae	Forb	NI	FACW+
<b>10</b>	<i>Angelica grayi</i>	<i>Angelica grayi</i> (Coulter & Rose) Coulter & Rose	Apiaceae	Forb		
<b>5</b>	<i>Angelica pinnata</i>	<i>Angelica pinnata</i> S. Watson	Apiaceae	Forb	NI	FAC
*	<i>Anoda cristata</i>	<i>Anoda cristata</i> (L.) Schlechtendal	Malvaceae	Forb	NI	NO
		<i>Antennaria pulcherrima</i> (Hooker) Greene subsp. <i>anaphaloides</i> (Rydberg) W. A. Weber				
<b>5</b>	<i>Antennaria anaphaloides</i>	( <i>Antennaria pulcherrima</i> (Hooker) Greene subsp. <i>anaphaloides</i> (Rydberg) W. A. Weber)	Asteraceae	Forb		
<b>5</b>	<i>Antennaria corymbosa</i>	<i>Antennaria corymbosa</i> E. Nelson	Asteraceae	Forb	NI	FACW
<b>6</b>	<i>Antennaria dimorpha</i>	<i>Antennaria dimorpha</i> (Nuttall) Torrey & Gray	Asteraceae	Forb		

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5	<i>Antennaria howellii</i> ssp. <i>neodioica</i>	<i>Antennaria howellii</i> Greene subsp. <i>neodioica</i> (Greene) Bayer	Asteraceae	Forb		
5	<i>Antennaria luzuloides</i>	<i>Antennaria luzuloides</i> Torrey & Gray	Asteraceae	Forb		
7	<i>Antennaria marginata</i>	<i>Antennaria marginata</i> Greene	Asteraceae	Forb		
5	<i>Antennaria media</i>	<i>Antennaria media</i> Greene	Asteraceae	Forb	NI	NI
5	<i>Antennaria microphylla</i>	<i>Antennaria microphylla</i> Rydberg	Asteraceae	Forb		
		<i>Antennaria parvifolia</i> Nuttall	Asteraceae	Forb		
5	<i>Antennaria pulcherrima</i>	<i>Antennaria pulcherrima</i> (Hooker) Greene subsp. <i>pulcherrima</i>	Asteraceae	Forb	NO	FAC
5	<i>Antennaria rosea</i>	<i>Antennaria rosea</i> Greene	Asteraceae	Forb		
5	<i>Antennaria rosulata</i>	<i>Antennaria rosulata</i> Rydberg	Asteraceae	Forb		
8	<i>Antennaria umbrinella</i>	<i>Antennaria umbrinella</i> Rydberg	Asteraceae	Forb	NI	FACU-
*	<i>Anthemis arvensis</i>	<i>Anthemis arvensis</i> L.	Asteraceae	Forb		
*	<i>Anthemis cotula</i>	<i>Anthemis cotula</i> L.	Asteraceae	Forb	FACU	FACU+
*	<i>Anthemis tinctoria</i>	<i>Anthemis tinctoria</i> L.	Asteraceae	Forb		
*	<i>Anthoxanthum odoratum</i>	<i>Anthoxanthum odoratum</i> L.	Poaceae	Graminoid	NI	NI
*	<i>Apera interrupta</i>	<i>Apera interrupta</i> (L.) P. Beauvois	Poaceae	Graminoid		
3	<i>Apios americana</i>	<i>Apios americana</i> Medicus	Fabaceae	Vine, Forb/herb	FACW	NI
<b>Not Assigned</b>	<i>Apocynum ×floribundum</i>	<i>Apocynum medium</i> Greene	Apocynaceae	Forb		
1	<i>Apocynum androsaemifolium</i>	<i>Apocynum androsaemifolium</i> L.	Apocynaceae	Forb	NI	NI
2	<i>Apocynum cannabinum</i>	<i>Apocynum cannabinum</i> L.	Apocynaceae	Forb	FAC	FAC
10	<i>Aquilegia barnebyi</i>	<i>Aquilegia barnebyi</i> Munz	Ranunculaceae	Forb		
8	<i>Aquilegia caerulea</i>	<i>Aquilegia coerulea</i> James ex Torrey	Ranunculaceae	Forb	NO	FACU
9	<i>Aquilegia chrysantha</i> var. <i>rydbergii</i>	<i>Aquilegia chrysantha</i> A. Gray var. <i>rydbergii</i> Munz	Ranunculaceae	Forb	NO	FAC
10	<i>Aquilegia elegantula</i>	<i>Aquilegia elegantula</i> Greene	Ranunculaceae	Forb		
10	<i>Aquilegia micrantha</i>	<i>Aquilegia micrantha</i> Eastwood	Ranunculaceae	Forb		
*	<i>Aquilegia pubescens</i>	<i>Aquilegia pubescens</i> Coville	Ranunculaceae	Forb		
9	<i>Aquilegia saximontana</i>	<i>Aquilegia saximontana</i> Rydberg ex B. L. Robinson in A. Gray	Ranunculaceae	Forb		
10	<i>Arabidopsis salsuginea</i>	<i>Thellungiella salsuginea</i> (Pallas) O. E. Schulz	Brassicaceae	Forb		
7	<i>Arabis ×divaricarpa</i>	<i>Boechera divaricarpa</i> (A. Nelson) Loeve & Loeve	Brassicaceae	Forb	FACU	FACU
7	<i>Arabis crandallii</i>	<i>Boechera crandallii</i> (B. L. Robinson) W. A. Weber	Brassicaceae	Forb		
5	<i>Arabis drummondii</i>	<i>Boechera drummondii</i> (A. Gray) Loeve & Loeve	Brassicaceae	Forb	FACU	FACU

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8	<i>Arabis fendleri</i>	<i>Boechera fendleri</i> (S. Watson) W. A. Weber subsp. <i>fendleri</i>	Brassicaceae	Forb		
6	<i>Arabis fendleri</i> var. <i>fendleri</i>	<i>Boechera fendleri</i> (S. Watson) W. A. Weber	Brassicaceae	Forb		
9	<i>Arabis fendleri</i> var. <i>spatifolia</i>	<i>Boechera fendleri</i> (S. Watson) W. A. Weber subsp. <i>spatifolia</i> (Rydberg) W. A. Weber	Brassicaceae	Forb		
10	<i>Arabis fernaldiana</i> var. <i>fernaldiana</i>	<i>Boechera fernaldiana</i> (Rollins) W. A. Weber	Brassicaceae	Forb		
*	<i>Arabis glabra</i>	<i>Turritis glabra</i> L.	Brassicaceae	Forb		
8	<i>Arabis gunnisoniana</i>	<i>Boechera gunnisoniana</i> (Rollins) W. A. Weber	Brassicaceae	Forb		
3	<i>Arabis hirsuta</i> var. <i>pycnocarpa</i>	<i>Arabis hirsuta</i> (L.) Scopoli var. <i>pycnocarpa</i> (Hopkins) Rollins	Brassicaceae	Forb	FACU	FACU
7	<i>Arabis holboellii</i> var. <i>retrofracta</i>	<i>Boechera retrofracta</i> (R. Graham) Loeve & Loeve	Brassicaceae	Forb	UPL	UPL
7	<i>Arabis lemmonii</i> var. <i>lemmonii</i>	<i>Boechera lemmonii</i> (S. Watson) W. A. Weber	Brassicaceae	Forb	NO	UPL
8	<i>Arabis lignifera</i>	<i>Boechera lignifera</i> (A. Nelson) W. A. Weber	Brassicaceae	Forb		
7	<i>Arabis oxylobula</i>	<i>Boechera oxylobula</i> (Greene) W. A. Weber	Brassicaceae	Forb		
7	<i>Arabis pallidifolia</i>	<i>Boechera pallidifolia</i> (Rollins) Weber	Brassicaceae	Forb		
7	<i>Arabis perennans</i>	<i>Boechera perennans</i> (S. Watson) W. A. Weber	Brassicaceae	Forb		
8	<i>Arabis pulchra</i> var. <i>pallens</i>	<i>Boechera pulchra</i> (Jones ex S. Watson) W. A. Weber subsp. <i>pallens</i> (Jones) W. A. Weber	Brassicaceae	Forb		
8	<i>Arabis selbyi</i>	<i>Boechera selbyi</i> (Rydberg) W. A. Weber	Brassicaceae	Forb		
9	<i>Aralia nudicaulis</i>	<i>Aralia nudicaulis</i> L.	Araliaceae	Forb	FACU	FAC
9	<i>Aralia racemosa</i>	<i>Aralia racemosa</i> L.	Araliaceae	Forb	NI	NI
5	<i>Arceuthobium americanum</i>	<i>Arceuthobium americanum</i> Nuttall ex Engelmann	Viscaceae	Shrub		
5	<i>Arceuthobium cyanocarpum</i>	<i>Arceuthobium cyanocarpum</i> Coulter & Nelson	Viscaceae	Shrub		
5	<i>Arceuthobium divaricatum</i>	<i>Arceuthobium divaricatum</i> Engelmann	Viscaceae	Shrub		
5	<i>Arceuthobium douglasii</i>	<i>Arceuthobium douglasii</i> Engelmann	Viscaceae	Shrub		
5	<i>Arceuthobium vaginatum</i> ssp. <i>cryptopodium</i>	<i>Arceuthobium vaginatum</i> (Willdenow) K. Presl subsp. <i>cryptopodium</i> (Engelmann) Hawksworth & Wiens	Viscaceae	Shrub		
*	<i>Arctium lappa</i>	<i>Arctium lappa</i> L.	Asteraceae	Forb		
*	<i>Arctium minus</i>	<i>Arctium minus</i> (J. Hill) Bernhardi	Asteraceae	Forb	NI	NI
*	<i>Arctium tomentosum</i>	<i>Arctium tomentosum</i> P. Miller	Asteraceae	Forb		
8	<i>Arctostaphylos patula</i>	<i>Arctostaphylos patula</i> Greene fma <i>platyphylla</i> (A. Gray) P. V. Wells	Ericaceae	Shrub		

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6	Arctostaphylos uva-ursi	Arctostaphylos adenotricha (Fernald & Macbride) Loeve et al.	Ericaceae	Shrub	FACU	UPL
		Arctostaphylos uva-ursi (L.) Sprengel subsp. coactilis (Fernald & Macbride) Loeve et al.	Ericaceae	Shrub	FACU	UPL
8	Arenaria congesta var. congesta	Eremogone congesta (Nuttall ex Torrey & Gray) Ikonnikov	Caryophyllaceae	Forb		
6	Arenaria fendleri var. fendleri	Eremogone fendleri (A. Gray) Ikonnikov	Caryophyllaceae	Forb		
6	Arenaria hookeri	Eremogone hookeri (Nuttall ex Torrey & Gray) W. A. Weber subsp. hookeri	Caryophyllaceae	Forb		
Not Assigned	Arenaria hookeri ssp. desertorum	Eremogone hookeri (Nuttall ex Torrey & Gray) W. A. Weber subsp. desertorum (Maguire) W. A. Weber	Caryophyllaceae	Forb		
8	Arenaria hookeri ssp. hookeri	Eremogone hookeri (Nuttall ex Torrey & Gray) W.A. Weber	Caryophyllaceae	Forb		
Not Assigned	Arenaria hookeri ssp. pinetorum	Eremogone hookeri (Nuttall ex Torrey & Gray) W. A. Weber subsp. pinetorum (A. Nelson) W. A. Weber	Caryophyllaceae	Forb		
6	Arenaria kingii ssp. uintahensis	Eremogone kingii (S. Watson) Ikonnikov subsp. uintahensis (A. Nelson) W. A. Weber	Caryophyllaceae	Forb		
Not Assigned	Arenaria lanuginosa ssp. saxosa	Spergulastrum lanuginosum Michaux subsp. saxosum (A. Gray) W. A. Weber	Caryophyllaceae	Forb		FACU
*	Arenaria serpyllifolia	Arenaria serpyllifolia L.	Caryophyllaceae	Forb	FAC	FACU
5	Argemone hispida	Argemone hispida A. Gray	Papaveraceae	Forb		
3	Argemone polyanthemos	Argemone polyanthemos (Fedde) G. Ownbey	Papaveraceae	Forb		
5	Argemone squarrosa	Argemone squarrosa Greene	Papaveraceae	Forb		
3	Argentina anserina	Argentina anserina (L.) Rydberg var. anserina	Rosaceae	Forb	OBL	OBL
		Argentina anserina (L.) Rydberg var. concolor Rydberg	Rosaceae	Forb	OBL	OBL
7	Argyrochosma fendleri	Argyrochosma fendleri (Kunze) Windham	Pteridaceae	Forb		
Not Assigned	Argythamnia humilis	Argythamnia humilis (Engelmann & Gray) Muller-Argoviensis	Euphorbiaceae	Forb		
Not Assigned	Argythamnia mercurialina	Argythamnia mercurialina (Nuttall) Muller-Argoviensis	Euphorbiaceae	Forb		

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*	Aristida adscensionis	Aristida adscensionis L.	Poaceae	Graminoid		
<b>Not Assigned</b>	Aristida arizonica	Aristida arizonica Vasey	Poaceae	Graminoid		
<b>7</b>	Aristida basiramea	Aristida basiramea Engelmann	Poaceae	Graminoid		
<b>5</b>	Aristida divaricata	Aristida divaricata Humboldt & Bonpland ex Willdenow	Poaceae	Graminoid		
<b>Not Assigned</b>	Aristida havardii	Aristida havardii Vasey	Poaceae	Graminoid		
<b>3</b>	Aristida purpurea	Aristida purpurea Nuttall	Poaceae	Graminoid		
<b>4</b>	Aristida purpurea var. longiseta	Aristida purpurea Nuttall var. longiseta (Steudel) Vasey	Poaceae	Graminoid		
<b>2</b>	Aristida purpurea var. purpurea	Aristida purpurea Nuttall var. purpurea	Poaceae	Graminoid		
<b>Not Assigned</b>	Aristida purpurea var. wrightii	Aristida wrightii Nash	Poaceae	Graminoid		
<b>9</b>	Armeria maritima ssp. sibirica	Armeria scabra Pallas subsp. sibirica (Turczaninov ex Boissier) Hylander	Plumbaginaceae	Forb		NI
*	Armoracia rusticana	Armoracia rusticana Gaertner, Meyer, & Scherbius	Brassicaceae	Forb	NI	NI
<b>10</b>	Arnica angustifolia ssp. tomentosa	Arnica alpina (L.) Olin & Ladau subsp. tomentosa (Macoun) Maguire	Asteraceae	Forb		
<b>8</b>	Arnica chamissonis ssp. foliosa	Arnica chamissonis Lessing subsp. foliosa (Nuttall) Maguire	Asteraceae	Forb	NO	FACW
<b>7</b>	Arnica cordifolia	Arnica cordifolia Hooker	Asteraceae	Forb		
<b>6</b>	Arnica fulgens	Arnica fulgens Pursh	Asteraceae	Forb	NI	NI
<b>8</b>	Arnica latifolia	Arnica latifolia Bongard	Asteraceae	Forb	NI	FACU
<b>10</b>	Arnica longifolia	Arnica longifolia D. C. Eaton	Asteraceae	Forb	NI	FAC
<b>7</b>	Arnica mollis	Arnica mollis Hooker	Asteraceae	Forb	NI	FAC*
<b>8</b>	Arnica parryi	Arnica parryi A. Gray	Asteraceae	Forb		
<b>10</b>	Arnica rydbergii	Arnica rydbergii Greene	Asteraceae	Forb		
*	Arrhenatherum elatius	Arrhenatherum elatius (L.) P. Beauvois ex J. & K. Presl	Poaceae	Graminoid	NI	UPL
*	Artemisia abrotanum	Artemisia abrotanum L.	Asteraceae	Shrub		
*	Artemisia absinthium	Artemisia absinthium L.	Asteraceae	Forb		
*	Artemisia annua	Artemisia annua L.	Asteraceae	Forb	FACU-	NI
<b>7</b>	Artemisia arbuscula	Seriphidium arbusculum (Nuttall) W.A. Weber subsp. arbusculum	Asteraceae	Shrub		
<b>6</b>	Artemisia arbuscula ssp. arbuscula	Seriphidium arbusculum (Nuttall) W. A. Weber	Asteraceae	Shrub		

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6	<i>Artemisia arbuscula</i> ssp. <i>longiloba</i>	<i>Seriphidium arbusculum</i> (Nuttall) W. A. Weber subsp. <i>longilobum</i> (Osterhout) W. A. Weber	Asteraceae	Shrub	NO	NI
9	<i>Artemisia arctica</i> ssp. <i>arctica</i>	<i>Artemisia arctica</i> Lessing subsp. <i>saxicola</i> (Rydberg) Hulten	Asteraceae	Shrub		
*	<i>Artemisia biennis</i>	<i>Artemisia biennis</i> Willdenow	Asteraceae	Forb	FACU-	FACW
7	<i>Artemisia bigelovii</i>	<i>Artemisia bigelovii</i> A. Gray	Asteraceae	Shrub		
5	<i>Artemisia campestris</i> ssp. <i>borealis</i> var. <i>borealis</i>	<i>Oligosporus groenlandicus</i> (Hornemann) Loeve & Loeve	Asteraceae	Forb		
5	<i>Artemisia campestris</i> ssp. <i>borealis</i> var. <i>scouleriana</i>	<i>Oligosporus pacificus</i> (Nuttall) Poljakov	Asteraceae	Forb		
5	<i>Artemisia campestris</i> ssp. <i>caudata</i>	<i>Oligosporus caudatus</i> (Michaux) Poljakov	Asteraceae	Forb		
5	<i>Artemisia cana</i> ssp. <i>cana</i>	<i>Seriphidium canum</i> (Pursh) W. A. Weber	Asteraceae	Shrub	FACU	FAC*
5	<i>Artemisia carruthii</i>	<i>Artemisia carruthii</i> Wood {ex} Carruth	Asteraceae	Forb		
3	<i>Artemisia dracunculus</i>	<i>Oligosporus dracunculus</i> (L.) Poljakov	Asteraceae	Forb		
3	<i>Artemisia dracunculus</i>	<i>Oligosporus dracunculus</i> (L.) Poljakov subsp. <i>dracunculinus</i> (S. Watson) W. A. Weber	Asteraceae	Forb		
		<i>Oligosporus dracunculus</i> (L.) Poljakov subsp. <i>glaucus</i> (Pallas) Loeve & Loeve	Asteraceae	Forb		
5	<i>Artemisia filifolia</i>	<i>Oligosporus filifolius</i> (Torrey) Poljakov	Asteraceae	Shrub		
4	<i>Artemisia franserioides</i>	<i>Artemisia franserioides</i> Greene	Asteraceae	Forb		
4	<i>Artemisia frigida</i>	<i>Artemisia frigida</i> Willdenow	Asteraceae	Shrub		FACU
Not Assigned	<i>Artemisia longifolia</i>	<i>Artemisia longifolia</i> Nuttall	Asteraceae	Shrub		
4	<i>Artemisia ludoviciana</i>	<i>Artemisia ludoviciana</i> Nuttall	Asteraceae	Forb	FACU-	FACU
		<i>Artemisia ludoviciana</i> Nuttall subsp. <i>ludoviciana</i>	Asteraceae	Forb	FACU-	FACU
Not Assigned	<i>Artemisia ludoviciana</i> ssp. <i>albula</i>	<i>Artemisia ludoviciana</i> Nuttall subsp. <i>albula</i> (Wooton) Keck	Asteraceae	Forb	FACU-	FACU
3	<i>Artemisia ludoviciana</i> ssp. <i>incompta</i>	<i>Artemisia ludoviciana</i> Nuttall subsp. <i>incompta</i> (Nuttall) Keck	Asteraceae	Forb	FACU-	FACU
2	<i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>	<i>Artemisia ludoviciana</i> Nuttall subsp. <i>mexicana</i> (Willdenow) Keck	Asteraceae	Forb	FACU-	FACU
4	<i>Artemisia michauxiana</i>	<i>Artemisia michauxiana</i> Besser in Hooker	Asteraceae	Forb		
6	<i>Artemisia nova</i>	<i>Seriphidium novum</i> (A. Nelson) W. A. Weber	Asteraceae	Shrub		

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<b>Not Assigned</b>	<i>Artemisia parryi</i>	<i>Artemisia laciniata Willdenow subsp. parryi (A. Gray) W. A. Weber</i>	Asteraceae	Forb		
<b>9</b>	<i>Artemisia pattersonii</i>	<i>Artemisia pattersonii A. Gray</i>	Asteraceae	Forb		
<b>6</b>	<i>Artemisia pedatifida</i>	<i>Oligosporus pedatifidus (Nuttall) Poljakov</i>	Asteraceae	Shrub		
<b>6</b>	<i>Artemisia pygmaea</i>	<i>Seriphidium pygmaeum (A. Gray) W. A. Weber</i>	Asteraceae	Shrub		
<b>6</b>	<i>Artemisia scopulorum</i>	<i>Artemisia scopulorum A. Gray</i>	Asteraceae	Forb		
<b>4</b>	<i>Artemisia tridentata</i>	<i>Seriphidium tridentatum (Nuttall) W.A. Weber subsp. tridentatum</i>	Asteraceae	Shrub		FACU
<b>4</b>	<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	<i>Seriphidium tridentatum (Nuttall) W. A. Weber</i>	Asteraceae	Shrub		FACU
<b>5</b>	<i>Artemisia tridentata</i> ssp. <i>vaseyanum</i>	<i>Seriphidium vaseyanum (Rydberg) W. A. Weber</i>	Asteraceae	Shrub		FAC
<b>5</b>	<i>Artemisia tridentata</i> ssp. <i>wyomingensis</i>	<i>Seriphidium tridentatum (Nuttall) W. A. Weber subsp. <i>wyomingensis</i> (Beetle &amp; Young) W. A. Weber</i>	Asteraceae	Shrub		FACU
<b>5</b>	<i>Artemisia tripartita</i> ssp. <i>tripartita</i>	<i>Seriphidium tripartitum (Rydberg) W. A. Weber</i>	Asteraceae	Shrub		
<b>7</b>	<i>Asclepias arenaria</i>	<i>Asclepias arenaria Torrey</i>	Asclepiadaceae	Forb		
<b>8</b>	<i>Asclepias asperula</i> ssp. <i>asperula</i>	<i>Asclepias asperula (Decaisne) Woodson subsp. <i>asperula</i></i>	Asclepiadaceae	Forb		
<b>8</b>	<i>Asclepias cryptoceras</i>	<i>Asclepias cryptoceras S. Watson</i>	Asclepiadaceae	Forb		
<b>5</b>	<i>Asclepias engelmanniana</i>	<i>Asclepias engelmanniana Woodson</i>	Asclepiadaceae	Forb		
<b>6</b>	<i>Asclepias hallii</i>	<i>Asclepias hallii A. Gray</i>	Asclepiadaceae	Forb		
<b>4</b>	<i>Asclepias incarnata</i>	<i>Asclepias incarnata L.</i>	Asclepiadaceae	Forb	OBL	OBL
<b>6</b>	<i>Asclepias involucrata</i>	<i>Asclepias involucrata Engelmann ex Torrey</i>	Asclepiadaceae	Forb		
		<i>Asclepias macrosperma Eastwood</i>	Asclepiadaceae	Forb		
<b>4</b>	<i>Asclepias latifolia</i>	<i>Asclepias latifolia (Torrey) Rafinesque</i>	Asclepiadaceae	Forb		
<b>8</b>	<i>Asclepias macrotis</i>	<i>Asclepias macrotis Torrey</i>	Asclepiadaceae	Shrub		
<b>8</b>	<i>Asclepias oenotheroides</i>	<i>Asclepias oenotheroides Chamisso &amp; Schlechtendal</i>	Asclepiadaceae	Forb	FACU-	NI
<b>4</b>	<i>Asclepias pumila</i>	<i>Asclepias pumila (A. Gray) Vail</i>	Asclepiadaceae	Forb		
<b>3</b>	<i>Asclepias speciosa</i>	<i>Asclepias speciosa Torrey</i>	Asclepiadaceae	Forb	FAC	FACW
<b>7</b>	<i>Asclepias stenophylla</i>	<i>Asclepias stenophylla A. Gray</i>	Asclepiadaceae	Forb		
<b>3</b>	<i>Asclepias subverticillata</i>	<i>Asclepias subverticillata (A. Gray) Vail</i>	Asclepiadaceae	Forb	FACU	FACU
<b>7</b>	<i>Asclepias tuberosa</i> ssp. <i>interior</i>	<i>Asclepias tuberosa L. subsp. <i>terminalis</i> Woodson</i>	Asclepiadaceae	Forb		
<b>8</b>	<i>Asclepias uncialis</i>	<i>Asclepias uncialis Greene</i>	Asclepiadaceae	Forb		

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<b>6</b>	<i>Asclepias viridiflora</i>	<i>Asclepias viridiflora</i> Rafinesque	Asclepiadaceae	Forb		
*	<i>Asparagus officinalis</i>	<i>Asparagus officinalis</i> L.	Liliaceae	Forb	FACU-	FACU
*	<i>Asperugo procumbens</i>	<i>Asperugo procumbens</i> L.	Boraginaceae	Forb	NI	NI
<b>9</b>	<i>Asplenium adiantum-nigrum</i>	<i>Asplenium adiantum-nigrum</i> L.	Aspleniaceae	Forb		
<b>10</b>	<i>Asplenium platyneuron</i>	<i>Asplenium platyneuron</i> (L.) Britton, Sterns, & Poggenberg	Aspleniaceae	Forb	FACU	NI
<b>10</b>	<i>Asplenium resiliens</i>	<i>Asplenium resiliens</i> Kunze	Aspleniaceae	Forb		
<b>9</b>	<i>Asplenium septentrionale</i>	<i>Asplenium septentrionale</i> (L.) Hoffmann	Aspleniaceae	Forb		
<b>10</b>	<i>Asplenium trichomanes</i>	<i>Asplenium trichomanes</i> L.	Aspleniaceae	Forb		
<b>10</b>	<i>Asplenium trichomanes-ramosum</i>	<i>Asplenium trichomanes-ramosum</i> L.	Aspleniaceae	Forb	NI	UPL
<b>9</b>	<i>Aster alpinus</i> var. <i>vierhapperi</i>	<i>Aster alpinus</i> L. var. <i>vierhapperi</i> (Onno) Cronquist	Asteraceae	Forb		
<b>6</b>	<i>Astragalus agrestis</i>	<i>Astragalus agrestis</i> Douglas ex G. Don	Fabaceae	Forb	FAC+	FAC
<b>Not Assigned</b>	<i>Astragalus allochrous</i> var. <i>playanus</i>	<i>Astragalus wootonii</i> Sheldon var. <i>wootonii</i>	Fabaceae	Forb		
<b>6</b>	<i>Astragalus alpinus</i>	<i>Astragalus alpinus</i> L.	Fabaceae	Forb	NI	FAC
<b>Not Assigned</b>	<i>Astragalus americanus</i>	<i>Astragalus americanus</i> (Hooker) Jones	Fabaceae	Forb	NO	NI
<b>5</b>	<i>Astragalus amphioxys</i> var. <i>vespertinus</i>	<i>Astragalus amphioxys</i> A. Gray var. <i>vespertinus</i> (Sheldon) Jones	Fabaceae	Forb		
<b>6</b>	<i>Astragalus anisus</i>	<i>Astragalus anisus</i> Jones	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus aretioides</i>	<i>Orophaca aretioides</i> (Jones) Rydberg	Fabaceae	Forb		
<b>6</b>	<i>Astragalus argophyllum</i>	<i>Astragalus argophyllum</i> Nuttall ex Torrey & Gray	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus argophyllum</i> var. <i>martinii</i>	<i>Astragalus argophyllum</i> Nuttall ex Torrey & Gray var. <i>martinii</i> Jones	Fabaceae	Forb		
		<i>Astragalus argophyllum</i> Nuttall ex Torrey & Gray var. <i>pephragmenoides</i> Barneby	Fabaceae	Forb		
<b>8</b>	<i>Astragalus asclepiadoides</i>	<i>Astragalus asclepiadoides</i> Jones	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus australis</i>	<i>Astragalus aboriginum</i> Richardson	Fabaceae	Forb		
		<i>Astragalus aboriginum</i> Richardson var. <i>fastigiorum</i> Jones	Fabaceae	Forb		
		<i>Astragalus aboriginum</i> Richardson var. <i>glabriusculus</i> (Hooker) Rydberg	Fabaceae	Forb		
<b>5</b>	<i>Astragalus bisulcatus</i>	<i>Astragalus bisulcatus</i> (Hooker) A. Gray	Fabaceae	Forb		
<b>5</b>	<i>Astragalus bisulcatus</i> var. <i>haydenianus</i>	<i>Astragalus haydenianus</i> A. Gray	Fabaceae	Forb		

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<b>Not Assigned</b>	<i>Astragalus bodinii</i>	<i>Astragalus bodinii</i> Sheldon	Fabaceae	Forb	NI	FACU-
<b>Not Assigned</b>	<i>Astragalus brandegeei</i>	<i>Astragalus brandegeei</i> T. C. Porter in Porter & Coulter	Fabaceae	Forb		
<b>7</b>	<i>Astragalus calycosus</i>	<i>Astragalus calycosus</i> Torrey ex S. Watson	Fabaceae	Forb		
<b>7</b>	<i>Astragalus calycosus</i> var. <i>calycosus</i>	<i>Astragalus calycosus</i> Torrey ex S. Watson var. <i>calycosus</i>	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus calycosus</i> var. <i>scaposus</i>	<i>Astragalus calycosus</i> Torrey ex S. Watson var. <i>scaposus</i> Jones	Fabaceae	Forb		
<b>5</b>	<i>Astragalus canadensis</i>	<i>Astragalus canadensis</i> L. var. <i>canadensis</i>	Fabaceae	Forb	FACU	FACW
<b>7</b>	<i>Astragalus ceramicus</i>	<i>Astragalus ceramicus</i> Sheldon	Fabaceae	Forb		
<b>6</b>	<i>Astragalus ceramicus</i> var. <i>ceramicus</i>	<i>Astragalus ceramicus</i> Sheldon var. <i>ceramicus</i>	Fabaceae	Forb		
<b>7</b>	<i>Astragalus ceramicus</i> var. <i>filifolius</i>	<i>Astragalus ceramicus</i> Sheldon var. <i>filifolius</i> (A. Gray) F. J. Hermann	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus cerussatus</i>	<i>Astragalus cerussatus</i> Sheldon	Fabaceae	Forb		
<b>7</b>	<i>Astragalus chamaeleuce</i>	<i>Astragalus chamaeleuce</i> A. Gray	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus cibarius</i>	<i>Astragalus cibarius</i> Sheldon	Fabaceae	Forb		
*	<i>Astragalus cicer</i>	<i>Astragalus cicer</i> L.	Fabaceae	Forb		
<b>6</b>	<i>Astragalus coltonii</i> var. <i>moabensis</i>	<i>Astragalus coltonii</i> Jones var. <i>moabensis</i> Jones	Fabaceae	Forb		
<b>6</b>	<i>Astragalus convallarius</i>	<i>Astragalus convallarius</i> Greene	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus convallarius</i> var. <i>convallarius</i>	<i>Astragalus convallarius</i> Greene var. <i>convallarius</i>	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus convallarius</i> var. <i>scopulorum</i>	<i>Astragalus convallarius</i> Greene var. <i>scopulorum</i> Barneby	Fabaceae	Forb		
<b>6</b>	<i>Astragalus crassicarpus</i>	<i>Astragalus crassicarpus</i> Nuttall	Fabaceae	Forb		
<b>6</b>	<i>Astragalus crassicarpus</i> var. <i>crassicarpus</i>	<i>Astragalus crassicarpus</i> Nuttall var. <i>crassicarpus</i>	Fabaceae	Forb		
<b>7</b>	<i>Astragalus crassicarpus</i> var. <i>paysonii</i>	<i>Astragalus crassicarpus</i> Nuttall var. <i>paysonii</i> (L. Kelso) Barneby	Fabaceae	Forb		
<b>4</b>	<i>Astragalus cronquistii</i>	<i>Astragalus cronquistii</i> Barneby	Fabaceae	Forb		
<b>8</b>	<i>Astragalus debequaeus</i>	<i>Astragalus debequaeus</i> Welsh	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus desperatus</i>	<i>Astragalus desperatus</i> Jones	Fabaceae	Forb		
<b>9</b>	<i>Astragalus deterior</i>	<i>Astragalus deterior</i> (Barneby) Barneby	Fabaceae	Forb		
<b>8</b>	<i>Astragalus detritalis</i>	<i>Astragalus detritalis</i> Jones	Fabaceae	Forb		

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6	<i>Astragalus drummondii</i>	<i>Astragalus drummondii</i> Douglas ex Hooker	Fabaceae	Forb		
9	<i>Astragalus duchesnensis</i>	<i>Astragalus duchesnensis</i> Jones	Fabaceae	Forb		
8	<i>Astragalus eastwoodiae</i>	<i>Astragalus eastwoodiae</i> Jones	Fabaceae	Forb		
Not Assigned	<i>Astragalus eucosmus</i>	<i>Astragalus eucosmus</i> B. L. Robinson	Fabaceae	Forb	NI	FAC
*	<i>Astragalus falcatus</i>	<i>Astragalus falcatus</i> Lamarck	Fabaceae	Forb		
5	<i>Astragalus flavus</i>	<i>Astragalus flavus</i> Nuttall	Fabaceae	Forb		
6	<i>Astragalus flexuosus</i>	<i>Astragalus flexuosus</i> (Hooker) G. Don	Fabaceae	Forb		
6	<i>Astragalus flexuosus</i> var. <i>diehlii</i>	<i>Astragalus flexuosus</i> (Hooker) G. Don var. <i>diehlii</i> (Jones) Barneby	Fabaceae	Forb		
Not Assigned	<i>Astragalus flexuosus</i> var. <i>flexuosus</i>	<i>Astragalus flexuosus</i> (Hooker) G. Don var. <i>flexuosus</i>	Fabaceae	Forb		
Not Assigned	<i>Astragalus geyeri</i>	<i>Astragalus geyeri</i> A. Gray	Fabaceae	Forb		
9	<i>Astragalus gilivorus</i> var. <i>gilivorus</i>	<i>Orophaca triphylla</i> Britton	Fabaceae	Forb		
6	<i>Astragalus gracilis</i>	<i>Astragalus gracilis</i> Nuttall	Fabaceae	Forb		
Not Assigned	<i>Astragalus hallii</i>	<i>Astragalus hallii</i> A. Gray	Fabaceae	Forb		
8	<i>Astragalus hamiltonii</i>	<i>Astragalus lonchocarpus</i> Torrey var. <i>hamiltonii</i> (C. L. Porter) Isely	Fabaceae	Forb		
		<i>Astragalus lonchocarpus</i> Torrey var. <i>lonchocarpus</i>	Fabaceae	Forb		
9	<i>Astragalus humillimus</i>	<i>Astragalus humillimus</i> A. Gray	Fabaceae	Forb		
9	<i>Astragalus hyalinus</i>	<i>Orophaca hyalina</i> (Jones) Isely	Fabaceae	Forb		
Not Assigned	<i>Astragalus iodopetalus</i>	<i>Astragalus iodopetalus</i> (Greene ex Rydberg) Barneby	Fabaceae	Forb		
Not Assigned	<i>Astragalus jejunus</i>	<i>Astragalus jejunus</i> S. Watson	Fabaceae	Forb		
8	<i>Astragalus kentrophyta</i>	<i>Astragalus kentrophyta</i> A. Gray	Fabaceae	Forb		
Not Assigned	<i>Astragalus kentrophyta</i> var. <i>elatus</i>	<i>Astragalus kentrophyta</i> A. Gray subsp. <i>elatus</i> (S. Watson) W. A. Weber	Fabaceae	Forb		
7	<i>Astragalus kentrophyta</i> var. <i>kentrophyta</i>	<i>Astragalus kentrophyta</i> A. Gray subsp. <i>kentrophyta</i>	Fabaceae	Forb		
Not Assigned	<i>Astragalus kentrophyta</i> var. <i>tegetarius</i>	<i>Astragalus kentrophyta</i> A. Gray subsp. <i>implexus</i> (Canby ex Porter & Coulter) W. A. Weber	Fabaceae	Forb		
Not Assigned	<i>Astragalus laxmannii</i> var. <i>robustior</i>	<i>Astragalus adsurgens</i> Pallas var. <i>robustior</i> Hooker	Fabaceae	Forb		
5	<i>Astragalus lentiginosus</i>	<i>Astragalus lentiginosus</i> Douglas ex Hooker	Fabaceae	Forb	NO	NI

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<b>Not Assigned</b>	<i>Astragalus lentiginosus</i> var. <i>chartaceus</i>	<i>Astragalus lentiginosus</i> Douglas ex Hooker var. <i>platyphyllidius</i> (Rydberg) M. Peck	Fabaceae	Forb	NO	NI
<b>Not Assigned</b>	<i>Astragalus lentiginosus</i> var. <i>diphysus</i>	<i>Astragalus lentiginosus</i> Douglas ex Hooker var. <i>diphysus</i> (A. Gray) Jones	Fabaceae	Forb	NO	NI
<b>Not Assigned</b>	<i>Astragalus lentiginosus</i> var. <i>palans</i>	<i>Astragalus lentiginosus</i> Douglas ex Hooker var. <i>palans</i> (Jones) Jones	Fabaceae	Forb	NO	NI
<b>8</b>	<i>Astragalus leptaleus</i>	<i>Astragalus leptaleus</i> A. Gray	Fabaceae	Forb	NI	NI
<b>8</b>	<i>Astragalus linifolius</i>	<i>Astragalus linifolius</i> Osterhout	Fabaceae	Forb		
<b>6</b>	<i>Astragalus lonchocarpus</i>	<i>Astragalus lonchocarpus</i> Torrey	Fabaceae	Forb		
<b>6</b>	<i>Astragalus lotiflorus</i>	<i>Astragalus lotiflorus</i> Hooker	Fabaceae	Forb		
<b>9</b>	<i>Astragalus lutosus</i>	<i>Astragalus lutosus</i> Jones	Fabaceae	Forb		
<b>7</b>	<i>Astragalus megacarpus</i>	<i>Astragalus megacarpus</i> (Nuttall) A. Gray	Fabaceae	Forb		
<b>7</b>	<i>Astragalus microcymbus</i>	<i>Astragalus microcymbus</i> Barneby	Fabaceae	Forb		
<b>6</b>	<i>Astragalus miser</i> var. <i>oblongifolius</i>	<i>Astragalus miser</i> Douglas in Hooker var. <i>oblongifolius</i> (Rydberg) Cronquist	Fabaceae	Forb		
<b>6</b>	<i>Astragalus missouriensis</i>	<i>Astragalus missouriensis</i> Nuttall	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus missouriensis</i> var. <i>amphibolus</i>	<i>Astragalus missouriensis</i> Nuttall var. <i>amphibolus</i> Barneby	Fabaceae	Forb		
<b>6</b>	<i>Astragalus missouriensis</i> var. <i>humistratus</i>	<i>Astragalus missouriensis</i> Nuttall var. <i>humistratus</i> Isely	Fabaceae	Forb		
<b>6</b>	<i>Astragalus missouriensis</i> var. <i>missouriensis</i>	<i>Astragalus missouriensis</i> Nuttall var. <i>missouriensis</i>	Fabaceae	Forb		
<b>5</b>	<i>Astragalus mollissimus</i>	<i>Astragalus mollissimus</i> Torrey	Fabaceae	Forb		
<b>4</b>	<i>Astragalus mollissimus</i> var. <i>mollissimus</i>	<i>Astragalus mollissimus</i> Torrey var. <i>mollissimus</i>	Fabaceae	Forb		
<b>5</b>	<i>Astragalus mollissimus</i> var. <i>thompsoniae</i>	<i>Astragalus mollissimus</i> Torrey var. <i>thompsoniae</i> (S. Watson) Barneby	Fabaceae	Forb		
<b>8</b>	<i>Astragalus molybdenus</i>	<i>Astragalus molybdenus</i> Barneby	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus monumentalis</i> var. <i>cottamii</i>	<i>Astragalus monumentalis</i> Barneby var. <i>cottamii</i> (Welsh) Isely	Fabaceae	Forb		
<b>9</b>	<i>Astragalus musiniensis</i>	<i>Astragalus musiniensis</i> Jones	Fabaceae	Forb		
<b>5</b>	<i>Astragalus naturitensis</i>	<i>Astragalus naturitensis</i> Payson	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus nelsonianus</i>	<i>Astragalus nelsonianus</i> Barneby	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus newberryi</i>	<i>Astragalus newberryi</i> A. Gray	Fabaceae	Forb		

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0	<i>Astragalus nuttallianus</i> var. <i>micranthiformis</i>	<i>Astragalus nuttallianus</i> De Candolle var. <i>micranthiformis</i> Barneby	Fabaceae	Forb		
7	<i>Astragalus oocalycis</i>	<i>Astragalus oocalycis</i> Jones	Fabaceae	Forb		
7	<i>Astragalus oophorus</i> var. <i>caulescens</i>	<i>Astragalus oophorus</i> Jones var. <i>caulescens</i> (Jones) Jones	Fabaceae	Forb		
8	<i>Astragalus osterhoutii</i>	<i>Astragalus osterhoutii</i> Jones	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus parryi</i>	<i>Astragalus parryi</i> A. Gray	Fabaceae	Forb		
6	<i>Astragalus pattersonii</i>	<i>Astragalus pattersonii</i> A. Gray	Fabaceae	Forb		
5	<i>Astragalus pectinatus</i>	<i>Astragalus pectinatus</i> (Hooker) Douglas in Hooker	Fabaceae	Forb		
7	<i>Astragalus piscator</i>	<i>Astragalus piscator</i> Barneby & Welsh	Fabaceae	Forb		
7	<i>Astragalus plattensis</i>	<i>Astragalus plattensis</i> Nuttall ex Torrey & Gray	Fabaceae	Forb		
5	<i>Astragalus praelongus</i>	<i>Astragalus praelongus</i> Sheldon	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus praelongus</i> var. <i>ellisiae</i>	<i>Astragalus praelongus</i> Sheldon var. <i>ellisiae</i> (Rydberg) Barneby	Fabaceae	Forb		
5	<i>Astragalus praelongus</i> var. <i>praelongus</i>	<i>Astragalus praelongus</i> Sheldon var. <i>praelongus</i>	Fabaceae	Forb		
7	<i>Astragalus proximus</i>	<i>Astragalus proximus</i> (Rydberg) Wooton & Standley	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus pubentissimus</i>	<i>Astragalus pubentissimus</i> Torrey & Gray	Fabaceae	Forb		
6	<i>Astragalus puniceus</i>	<i>Astragalus puniceus</i> Osterhout	Fabaceae	Forb		
7	<i>Astragalus purshii</i>	<i>Astragalus purshii</i> Douglas ex Hooker	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus racemosus</i>	<i>Astragalus racemosus</i> Pursh	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus racemosus</i> var. <i>longisetus</i>	<i>Astragalus racemosus</i> Pursh var. <i>longisetus</i> Jones	Fabaceae	Forb		
5	<i>Astragalus racemosus</i> var. <i>racemosus</i>	<i>Astragalus racemosus</i> Pursh var. <i>racemosus</i>	Fabaceae	Forb		
8	<i>Astragalus rafaelensis</i>	<i>Astragalus rafaelensis</i> Jones	Fabaceae	Forb		
7	<i>Astragalus ripleyi</i>	<i>Astragalus ripleyi</i> Barneby	Fabaceae	Forb		
<b>Not Assigned</b>	<i>Astragalus robbinsii</i> var. <i>minor</i>	<i>Astragalus robbinsii</i> (Oakes) A. Gray var. <i>minor</i> (Hooker) Barneby	Fabaceae	Forb	NO	FAC+
8	<i>Astragalus schmolliae</i>	<i>Astragalus schmolliae</i> C. L. Porter	Fabaceae	Forb		
7	<i>Astragalus scopulorum</i>	<i>Astragalus scopulorum</i> T. C. Porter in Porter & Coulter	Fabaceae	Forb		
7	<i>Astragalus sericoleucus</i>	<i>Orophaca sericea</i> (Nuttall) Britton	Fabaceae	Forb		
9	<i>Astragalus sesquiflorus</i>	<i>Astragalus sesquiflorus</i> S. Watson	Fabaceae	Forb		
7	<i>Astragalus shortianus</i>	<i>Astragalus shortianus</i> Nuttall in Torrey & Gray	Fabaceae	Forb		

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6	<i>Astragalus sparsiflorus</i>	<i>Astragalus sparsiflorus</i> A. Gray	Fabaceae	Forb		
6	<i>Astragalus spatulatus</i>	<i>Astragalus spatulatus</i> Sheldon	Fabaceae	Forb		
6	<i>Astragalus tenellus</i>	<i>Astragalus tenellus</i> Pursh	Fabaceae	Forb		
10	<i>Astragalus tortipes</i>	<i>Astragalus tortipes</i> J.L. Anderson & J.M. Porter	Fabaceae	Forb		
7	<i>Astragalus tridactylicus</i>	<i>Orophaca tridactylica</i> (A. Gray) Rydberg	Fabaceae	Forb		
8	<i>Astragalus wetherillii</i>	<i>Astragalus wetherillii</i> Jones	Fabaceae	Forb		
8	<i>Astragalus wingatanus</i>	<i>Astragalus wingatanus</i> S. Watson	Fabaceae	Forb		
Not Assigned	<i>Astrolepis integerrima</i>	<i>Astrolepis integerrima</i> (Hooker) Benham & Windham	Pteridaceae	Forb		
10	<i>Athyrium americanum</i>	<i>Athyrium distentifolium</i> Tausch ex Opiz	Dryopteridaceae	Forb	NI	FACU
9	<i>Athyrium filix-femina</i>	<i>Athyrium filix-femina</i> (L.) Roth ex Mertens	Dryopteridaceae	Forb	FAC	FAC+
10	<i>Athyrium filix-femina</i> ssp. <i>angustum</i>	<i>Athyrium filix-femina</i> (L.) Roth ex Mertens subsp. <i>angustum</i> (Willdenow) Hulten	Dryopteridaceae	Forb	FAC	FAC+
10	<i>Athyrium filix-femina</i> ssp. <i>cyclosorum</i>	<i>Athyrium filix-femina</i> (L.) Roth ex Mertens subsp. <i>cyclosorum</i> (Ruprecht) C. Christensen	Dryopteridaceae	Forb	FAC	FAC+
Not Assigned	<i>Atriplex ×aptera</i>	<i>Atriplex aptera</i>	Chenopodiaceae	Shrub		
Not Assigned	<i>Atriplex argentea</i>	<i>Atriplex argentea</i> Nuttall	Chenopodiaceae	Forb	FAC	FAC
7	<i>Atriplex canescens</i>	<i>Atriplex canescens</i> (Pursh) Nuttall	Chenopodiaceae	Shrub	FACU-	UPL
		<i>Atriplex canescens</i> (Pursh) Nuttall subsp. <i>canescens</i>	Chenopodiaceae	Shrub	FACU-	UPL
6	<i>Atriplex confertifolia</i>	<i>Atriplex confertifolia</i> (Torrey & Fremont) S. Watson	Chenopodiaceae	Shrub	NI	NI
8	<i>Atriplex corrugata</i>	<i>Atriplex corrugata</i> S. Watson	Chenopodiaceae	Shrub		
6	<i>Atriplex gardneri</i>	<i>Atriplex gardneri</i> (Moquin) Standley	Chenopodiaceae	Shrub		
Not Assigned	<i>Atriplex garrettii</i>	<i>Atriplex canescens</i> (Pursh) Nuttall subsp. <i>garrettii</i> (Rydberg) Hall & Clements	Chenopodiaceae	Shrub		
Not Assigned	<i>Atriplex graciliflora</i>	<i>Atriplex graciliflora</i> Jones	Chenopodiaceae	Forb		
*	<i>Atriplex hortensis</i>	<i>Atriplex hortensis</i> L.	Chenopodiaceae	Forb	FACW	FAC
*	<i>Atriplex micrantha</i>	<i>Atriplex heterosperma</i> Bunge	Chenopodiaceae	Forb		
5	<i>Atriplex obovata</i>	<i>Atriplex obovata</i> Moquin	Chenopodiaceae	Shrub		
Not Assigned	<i>Atriplex pachypoda</i>	<i>Atriplex pachypoda</i> Stutz & Chu	Chenopodiaceae	Forb		
*	<i>Atriplex patula</i>	<i>Atriplex patula</i> L.	Chenopodiaceae	Forb	FACW	FACW
Not Assigned	<i>Atriplex powellii</i>	<i>Atriplex powellii</i> S. Watson	Chenopodiaceae	Forb		

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*	Atriplex rosea	Atriplex rosea L.	Chenopodiaceae	Forb	FACU	FACU
<b>Not Assigned</b>	Atriplex saccaria	Atriplex saccaria S. Watson	Chenopodiaceae	Forb		
<b>Not Assigned</b>	Atriplex truncata	Atriplex truncata (Torrey) A. Gray	Chenopodiaceae	Forb	NI	FAC
<b>Not Assigned</b>	Atriplex wolfii	Atriplex wolfii S. Watson	Chenopodiaceae	Forb		
*	Aurinia saxatilis	Aethionema saxatile (L.) R. Br.	Brassicaceae	Forb		
*	Avena fatua	Avena fatua L.	Poaceae	Graminoid		
		Avenua fatua L. var. fatua	Poaceae	Graminoid		
*	Avena sativa	Avena fatua L. var. sativa (L.) Haussknecht	Poaceae	Graminoid		
*	Axyris amaranthoides	Axyris amaranthoides L.	Chenopodiaceae	Forb		
<b>Not Assigned</b>	Azolla mexicana	Azolla mexicana K. Presl	Azollaceae	Forb	OBL	OBL
7	Baccharis salicina	Baccharis salicina Torrey & Gray	Asteraceae	Shrub	FAC	FACW
8	Baccharis wrightii	Baccharis wrightii A. Gray	Asteraceae	Shrub	FAC	
<b>Not Assigned</b>	Bacopa rotundifolia	Bacopa rotundifolia (Michaux) Wettstein in Engler & Prantl	Scrophulariaceae	Forb	OBL	OBL
5	Bahia dissecta	Bahia dissecta (A. Gray) Britton	Asteraceae	Forb		
*	Balsamita major	Balsamita major Desfontaines, non L.	Asteraceae	Forb		
5	Balsamorhiza hookeri var. hispidula	Balsamorhiza hispida W. M. Sharp	Asteraceae	Forb		
5	Balsamorhiza sagittata	Balsamorhiza sagittata (Pursh) Nuttall	Asteraceae	Forb		
5	Barbarea orthoceras	Barbarea orthoceras Ledebour	Brassicaceae	Forb	OBL	OBL
*	Barbarea vulgaris	Barbarea vulgaris R. Brown	Brassicaceae	Forb	FAC	NI
*	Bassia hyssopifolia	Bassia hyssopifolia (Pallas) Kuntze	Chenopodiaceae	Vine, Forb/herb	FACW	FACW
4	Beckmannia syzigachne	Beckmannia syzigachne (Steudel) Fernald subsp. baicalensis (Kuznetzow) Koyama & Kuwano	Poaceae	Graminoid	OBL	OBL
5	Berberis fendleri	Berberis fendleri A. Gray	Berberidaceae	Shrub		
*	Berberis vulgaris	Berberis vulgaris L.	Berberidaceae	Shrub	NI	NI
<b>Not Assigned</b>	Bergia texana	Bergia texana (Hooker) Seubert ex Walpers	Elatinaceae	Forb	OBL	OBL
9	Berlandiera lyrata	Berlandiera lyrata Bentham	Asteraceae	Forb		
*	Berteroa incana	Berteroa incana (L.) De Candolle	Brassicaceae	Forb		
*	Berula erecta	Berula erecta (Hudson) Coville	Apiaceae	Forb	OBL	OBL
9	Besseya alpina	Besseya alpina (A. Gray) Rydberg	Scrophulariaceae	Forb		
8	Besseya plantaginea	Besseya plantaginea (Bentham in De Candolle) Rydberg	Scrophulariaceae	Forb	NI	NI
7	Besseya ritteriana	Besseya ritteriana (Eastwood) Rydberg	Scrophulariaceae	Forb		

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6	<i>Besseyea wyomingensis</i>	<i>Besseyea wyomingensis</i> (A. Nelson) Rydberg	Scrophulariaceae	Forb		
9	<i>Betula nana</i>	<i>Betula glandulosa</i> Michaux	Betulaceae	Shrub	OBL	OBL
8	<i>Betula occidentalis</i>	<i>Betula fontinalis</i> Sargent	Betulaceae	Shrub	FACW	FACW
8	<i>Betula papyrifera</i> x <i>occidentalis</i>	<i>Betula papyrifera</i> H. Marshall	Betulaceae	Tree	FACU	FACU
Not Assigned	<i>Bidens bigelovii</i>	<i>Bidens bigelovii</i> A. Gray	Asteraceae	Forb	OBL	NI
*	<i>Bidens cernua</i>	<i>Bidens cernua</i> L.	Asteraceae	Forb	OBL	OBL
*	<i>Bidens frondosa</i>	<i>Bidens frondosa</i> L.	Asteraceae	Forb	FACW	FACW
		<i>Bidens frondosa</i> L. var. <i>frondosa</i>	Asteraceae	Forb	FACW	FACW
Not Assigned	<i>Bidens tenuisecta</i>	<i>Bidens tenuisecta</i> A. Gray	Asteraceae	Forb	NI	FACW
Not Assigned	<i>Bidens tripartita</i>	<i>Bidens comosa</i> (A. Gray) Wiegand	Asteraceae	Forb	OBL	FACW
Not Assigned	<i>Bidens vulgata</i>	<i>Bidens frondosa</i> L. var. <i>puberula</i> Wiegand	Asteraceae	Forb	NI	NI
8	<i>Blepharoneuron tricholepis</i>	<i>Blepharoneuron tricholepis</i> (Torrey) Nash	Poaceae	Graminoid		
5	<i>Bothriochloa barbinodis</i>	<i>Bothriochloa barbinodis</i> (Lagasca) Herter	Poaceae	Graminoid	NO	NI
*	<i>Bothriochloa bladhii</i>	<i>Bothriochloa bladhii</i> (Retzius) S. T. Blake	Poaceae	Graminoid	NI	NO
*	<i>Bothriochloa ischaemum</i> var. <i>songarica</i>	<i>Bothriochloa ischaemum</i> (L.) Keng var. <i>songarica</i> (Ruprecht ex Fischer & Meyer) Celarier & Harlan	Poaceae	Graminoid		
2	<i>Bothriochloa laguroides</i> ssp. <i>torreyana</i>	<i>Bothriochloa laguroides</i> (De Candolle) Herter subsp. <i>torreyana</i> (Steudel) Allred & Gould	Poaceae	Graminoid		
6	<i>Bothriochloa springfieldii</i>	<i>Bothriochloa springfieldii</i> Gould	Poaceae	Graminoid		
8	<i>Botrychium campestre</i>	<i>Botrychium campestre</i> Wagner & Farrar	Ophioglossaceae	Forb		
6	<i>Botrychium echo</i>	<i>Botrychium echo</i> W. H. Wagner	Ophioglossaceae	Forb		
6	<i>Botrychium hesperium</i>	<i>Botrychium hesperium</i> (Maxon & Clausen) Wagner & Lellinger	Ophioglossaceae	Forb	FACU	FACU
4	<i>Botrychium lanceolatum</i>	<i>Botrychium lanceolatum</i> (S. G. Gmelin) Angstrom	Ophioglossaceae	Forb	NI	FACW
7	<i>Botrychium lineare</i>	<i>Botrychium lineare</i> W. H. Wagner, {ined}	Ophioglossaceae	Forb		
4	<i>Botrychium lunaria</i>	<i>Botrychium lunaria</i> (L.) Swartz subsp. <i>occidentalis</i> Loeve et al.	Ophioglossaceae	Forb	NI	FACW
4	<i>Botrychium minganense</i>	<i>Botrychium minganense</i>	Ophioglossaceae	Forb		
7	<i>Botrychium multifidum</i>	<i>Botrychium multifidum</i> (S. G. Gmelin) Ruprecht subsp. <i>coulteri</i> (Underwood) Clausen	Ophioglossaceae	Forb	FAC	FACU
4	<i>Botrychium pallidum</i>	<i>Botrychium pallidum</i> W. H. Wagner	Ophioglossaceae	Forb		
4	<i>Botrychium pinnatum</i>	<i>Botrychium pinnatum</i> St. John	Ophioglossaceae	Forb	NI	FACU-
4	<i>Botrychium simplex</i>	<i>Botrychium simplex</i> A. S. Hitchcock	Ophioglossaceae	Forb	FAC	FACU

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9	<i>Botrychium virginianum</i>	<i>Botrypus virginianus</i> (L.) Holub subsp. <i>europaeus</i> (Angstrom) Holub	Ophioglossaceae	Forb	FACU	FACU
7	<i>Bouteloua barbata</i>	<i>Chondrosum barbatum</i> (Lagasca) Clayton	Poaceae	Graminoid		
6	<i>Bouteloua curtipendula</i>	<i>Bouteloua curtipendula</i> (Michaux) Torrey	Poaceae	Graminoid		
Not Assigned	<i>Bouteloua curtipendula</i> var. <i>caespitosa</i>	<i>Bouteloua curtipendula</i> (Michaux) Torrey var. <i>caespitosa</i> Gould & Kapadia	Poaceae	Graminoid		
5	<i>Bouteloua curtipendula</i> var. <i>curtipendula</i>	<i>Bouteloua curtipendula</i> (Michaux) Torrey var. <i>curtipendula</i>	Poaceae	Graminoid		
7	<i>Bouteloua eriopoda</i>	<i>Chondrosum eriopodum</i> Torrey	Poaceae	Graminoid		
4	<i>Bouteloua gracilis</i>	<i>Chondrosum gracile</i> Humboldt, Bonpland, & Kunth	Poaceae	Graminoid		
6	<i>Bouteloua hirsuta</i> var. <i>hirsuta</i>	<i>Chondrosum hirsutum</i> (Lagasca) Sweet	Poaceae	Graminoid		
*	<i>Bouteloua simplex</i>	<i>Chondrosum prostratum</i> (Lagasca) Sweet	Poaceae	Graminoid		
*	<i>Brachypodium distachyon</i>	<i>Brachypodium distachyon</i> (L.) P. Beauvois	Poaceae	Graminoid		
*	<i>Brassica elongata</i>	<i>Brassica elongata</i> Ehrhart var. <i>integrifolia</i> (Boissier) Breistroffer	Brassicaceae	Forb		
*	<i>Brassica juncea</i>	<i>Brassica juncea</i> (L.) Cossen	Brassicaceae	Forb		
*	<i>Brassica napus</i>	<i>Brassica napus</i> L.	Brassicaceae	Forb		
*	<i>Brassica nigra</i>	<i>Brassica nigra</i> (L.) K. Koch	Brassicaceae	Forb		
*	<i>Brassica rapa</i>	<i>Brassica rapa</i> L.	Brassicaceae	Forb		
10	<i>Braya glabella</i> ssp. <i>glabella</i>	<i>Braya glabella</i> (Richardson) S. Watson var. <i>glabella</i>	Brassicaceae	Forb		
10	<i>Braya humilis</i>	<i>Braya humilis</i> (C. A. Meyer) B. L. Robinson	Brassicaceae	Forb	NO	UPL
8	<i>Brickellia brachyphylla</i>	<i>Brickellia brachyphylla</i> A. Gray	Asteraceae	Forb		
7	<i>Brickellia californica</i>	<i>Brickellia californica</i> (Torrey & Gray) A. Gray	Asteraceae	Shrub	FAC	UPL
6	<i>Brickellia eupatorioides</i>	<i>Brickellia eupatorioides</i> (L.) Shinners	Asteraceae	Forb		
5	<i>Brickellia eupatorioides</i> var. <i>chlorolepis</i>	<i>Brickellia rosmarinifolia</i> (Ventenat) W. A. Weber subsp. <i>chlorolepis</i> (Wooton & Standley) W. A. Weber	Asteraceae	Forb		
8	<i>Brickellia grandiflora</i>	<i>Brickellia grandiflora</i> (Hooker) Nuttall	Asteraceae	Forb		
7	<i>Brickellia longifolia</i>	<i>Brickellia longifolia</i> S. Watson	Asteraceae	Shrub		
9	<i>Brickellia microphylla</i> var. <i>scabra</i>	<i>Brickellia microphylla</i> (Nuttall) A. Gray subsp. <i>scabra</i> (A. Gray) W. A. Weber	Asteraceae	Shrub		

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<b>8</b>	<i>Brickellia oblongifolia</i>	<i>Brickellia oblongifolia</i> Nuttall	Asteraceae	Forb		
*	<i>Briza maxima</i>	<i>Briza maxima</i> L.	Poaceae	Graminoid		
*	<i>Briza media</i>	<i>Briza media</i> L.	Poaceae	Graminoid	NI	NI
*	<i>Bromus briziformis</i>	<i>Bromus briziformis</i> Fischer & Meyer	Poaceae	Graminoid	NI	NI
*	<i>Bromus carinatus</i>	<i>Ceratochloa carinata</i> (Hooker & Arnott) Tutin	Poaceae	Graminoid		
*	<i>Bromus catharticus</i>	<i>Ceratochloa unioloides</i> (Willdenow) P. Beauvois	Poaceae	Graminoid		
		<i>Bromopsis canadensis</i> (Michaux) Holub subsp. <i>canadensis</i>				
<b>6</b>	<i>Bromus ciliatus</i>	<i>Bromopsis canadensis</i> (Michaux) Holub subsp. <i>canadensis</i>	Poaceae	Graminoid	FACW	FACU
<b>5</b>	<i>Bromus ciliatus</i> var. <i>ciliatus</i>	<i>Bromopsis canadensis</i> (Michaux) Holub	Poaceae	Graminoid	FACW	FACU
		<i>Bromopsis canadensis</i> (Michaux) Holub subsp. <i>richardsonii</i> (Link) Tsvelev				
<b>5</b>	<i>Bromus ciliatus</i> var. <i>richardsonii</i>	<i>Bromopsis canadensis</i> (Michaux) Holub subsp. <i>richardsonii</i> (Link) Tsvelev	Poaceae	Graminoid		
*	<i>Bromus commutatus</i>	<i>Bromus commutatus</i> Schrader	Poaceae	Graminoid		
*	<i>Bromus diandrus</i>	<i>Anisantha diandra</i> (Roth) Tutin	Poaceae	Graminoid		
*	<i>Bromus hordeaceus</i>	<i>Bromus hordeaceus</i> L.	Poaceae	Graminoid	UPL	UPL
*	<i>Bromus inermis</i> ssp. <i>inermis</i> var. <i>inermis</i>	<i>Bromopsis inermis</i> (Leysser) Holub	Poaceae	Graminoid		
		<i>Bromopsis inermis</i> (Leysser) Holub				
<b>6</b>	<i>Bromus inermis</i> ssp. <i>pumpellianus</i> var. <i>pumpellianus</i>	<i>Bromopsis pumpelliana</i> (Scribner) Holub	Poaceae	Graminoid		
*	<i>Bromus japonicus</i>	<i>Bromus japonicus</i> Thunberg	Poaceae	Graminoid	FACU	UPL
<b>6</b>	<i>Bromus lanatipes</i>	<i>Bromopsis lanatipes</i> (Shear) Holub	Poaceae	Graminoid		
<b>5</b>	<i>Bromus porteri</i>	<i>Bromopsis porteri</i> (Coulter) Holub	Poaceae	Graminoid		
<b>Not Assigned</b>	<i>Bromus pubescens</i>	<i>Bromopsis pubescens</i> (Mühlenberg ex Willdenow) Holub	Poaceae	Graminoid	NI	NI
*	<i>Bromus racemosus</i>	<i>Bromus racemosus</i> L.	Poaceae	Graminoid		
*	<i>Bromus secalinus</i>	<i>Bromus secalinus</i> L.	Poaceae	Graminoid		
*	<i>Bromus squarrosum</i>	<i>Bromus squarrosum</i> L.	Poaceae	Graminoid		
*	<i>Bromus sterilis</i>	<i>Anisantha sterilis</i> (L.) Nevski	Poaceae	Graminoid		
*	<i>Bromus tectorum</i>	<i>Anisantha tectorum</i> (L.) Nevski	Poaceae	Graminoid		
<b>4</b>	<i>Buchloe dactyloides</i>	<i>Buchloe dactyloides</i> (Nuttall) Engelmann	Poaceae	Graminoid	FACU	NI
*	<i>Buglossoides arvensis</i>	<i>Buglossoides arvensis</i> (L.) I. M. Johnston	Boraginaceae	Forb		
<b>10</b>	<i>Bupleurum americanum</i>	<i>Bupleurum triradiatum</i> Adams subsp. <i>arcticum</i> (Regel) Hulten	Apiaceae	Forb		
<b>6</b>	<i>Caesalpinia drepanocarpa</i>	<i>Hoffmanseggia drepanocarpa</i> A. Gray	Fabaceae	Forb		

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6	<i>Caesalpinia jamesii</i>	<i>Caesalpinia jamesii</i> (Torrey & Gray) Fisher	Fabaceae	Forb		
6	<i>Calamagrostis canadensis</i>	<i>Calamagrostis canadensis</i> (Michaux) P. Beauvois	Poaceae	Graminoid	OBL	OBL
6	<i>Calamagrostis montanensis</i>	<i>Calamagrostis montanensis</i> (Scribnier) Scribner in Vasey	Poaceae	Graminoid		
7	<i>Calamagrostis purpurascens</i>	<i>Calamagrostis purpurascens</i> R. Brown in Richardson	Poaceae	Graminoid		
6	<i>Calamagrostis rubescens</i>	<i>Calamagrostis rubescens</i> Buckley	Poaceae	Graminoid		
8	<i>Calamagrostis scopulorum</i>	<i>Calamagrostis scopulorum</i> Jones	Poaceae	Graminoid	NI	FAC
7	<i>Calamagrostis stricta</i>	<i>Calamagrostis stricta</i> (Timm) Koeler	Poaceae	Graminoid	FACW	FACW
7	<i>Calamovilfa gigantea</i>	<i>Calamovilfa gigantea</i> (Nuttall) Scribner & Merrill	Poaceae	Graminoid		
7	<i>Calamovilfa longifolia</i>	<i>Calamovilfa longifolia</i> (Hooker) Scribner in Hackel	Poaceae	Graminoid		
5	<i>Callirhoe involucrata</i>	<i>Callirhoe involucrata</i> (Torrey & Gray) A. Gray	Malvaceae	Forb		
5	<i>Callitricha hermaphroditica</i>	<i>Callitricha hermaphroditica</i> L.	Callitrichaceae	Forb	OBL	OBL
6	<i>Callitricha heterophylla</i>	<i>Callitricha heterophylla</i> Pursh emend. Darby	Callitrichaceae	Forb	OBL	OBL
5	<i>Callitricha palustris</i>	<i>Callitricha verna</i> L. emend. Lonnroth	Callitrichaceae	Forb	OBL	OBL
8	<i>Calochortus aureus</i>	<i>Calochortus nuttallii</i> Torrey var. <i>aureus</i> (S. Watson) M. Ownbey	Liliaceae	Forb		
5	<i>Calochortus flexuosus</i>	<i>Calochortus flexuosus</i> S. Watson	Liliaceae	Vine, Forb/herb		
7	<i>Calochortus gunnisonii</i>	<i>Calochortus gunnisonii</i> S. Watson	Liliaceae	Forb		
7	<i>Calochortus nuttallii</i>	<i>Calochortus nuttallii</i> Torrey var. <i>nuttallii</i>	Liliaceae	Forb		
7	<i>Caltha leptosepala</i> ssp. <i>leptosepala</i> var. <i>leptosepala</i>	<i>Psychrophila leptosepala</i> (De Candolle) W. A. Weber	Ranunculaceae	Forb	NO	OBL
8	<i>Calylophus berlandieri</i>	<i>Calylophus berlandieri</i> Spach	Onagraceae	Forb		
7	<i>Calylophus hartwegii</i> ssp. <i>pubescens</i>	<i>Calylophus hartwegii</i> (Bentham) Raven subsp. <i>pubescens</i> (A. Gray) Towner & Raven	Onagraceae	Forb		
7	<i>Calylophus lavandulifolius</i>	<i>Calylophus lavandulifolius</i> (Torrey & Gray) Raven	Onagraceae	Forb		
7	<i>Calylophus serrulatus</i>	<i>Calylophus serrulatus</i> (Nuttall) Raven	Onagraceae	Forb		
8	<i>Calypso bulbosa</i>	<i>Calypso bulbosa</i> (L.) Oakes	Orchidaceae	Forb	FACW	FACU
2	<i>Calystegia macounii</i>	<i>Calystegia macounii</i> (Greene) Brummitt	Convolvulaceae	Vine, Forb		
2	<i>Calystegia sepium</i> ssp. <i>angulata</i>	<i>Calystegia sepium</i> (L.) R. Brown subsp. <i>angulata</i> Brummitt	Convolvulaceae	Vine, Forb	FAC	FACU

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*	<i>Camelina microcarpa</i>	<i>Camelina microcarpa</i> Andrzejowski ex De Candolle	Brassicaceae	Forb	NI	FACU
*	<i>Camelina rumelica</i>	<i>Camelina rumelica</i> Velenovsky	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Camissonia andina</i>	<i>Camissonia andina</i> (Nuttall) Raven	Onagraceae	Forb	NO	NI
<b>Not Assigned</b>	<i>Camissonia breviflora</i>	<i>Camissonia breviflora</i> (Torrey & Gray) Raven	Onagraceae	Forb	NO	FAC
<b>8</b>	<i>Camissonia eastwoodiae</i>	<i>Camissonia eastwoodiae</i> (Munz) Raven	Onagraceae	Forb		
<b>Not Assigned</b>	<i>Camissonia minor</i>	<i>Camissonia minor</i> (A. Nelson) Raven	Onagraceae	Forb		
<b>Not Assigned</b>	<i>Camissonia parvula</i>	<i>Camissonia parvula</i> (Nuttall ex Torrey & Gray) Raven	Onagraceae	Forb		
<b>7</b>	<i>Camissonia scapoidea</i>	<i>Camissonia scapoidea</i> (Torrey & Gray) Raven	Onagraceae	Forb		
<b>Not Assigned</b>	<i>Camissonia subacaulis</i>	<i>Camissonia subacaulis</i> (Pursh) Raven	Onagraceae	Forb	NO	FAC
<b>Not Assigned</b>	<i>Camissonia walkeri</i>	<i>Camissonia walkeri</i> (A. Nelson) Raven	Onagraceae	Forb		
<b>10</b>	<i>Campanula aparinooides</i>	<i>Campanula aparinooides</i> Pursh	Campanulaceae	Forb	OBL	<b>OBL</b>
<b>7</b>	<i>Campanula parryi</i>	<i>Campanula parryi</i> A. Gray	Campanulaceae	Forb	NI	FACU
*	<i>Campanula rapunculoides</i>	<i>Campanula rapunculoides</i> L.	Campanulaceae	Forb		
<b>5</b>	<i>Campanula rotundifolia</i>	<i>Campanula rotundifolia</i> L.	Campanulaceae	Forb	FAC	FACU
<b>8</b>	<i>Campanula uniflora</i>	<i>Campanula uniflora</i> L.	Campanulaceae	Forb	NI	FACU-
*	<i>Campsis radicans</i>	<i>Campsis radicans</i> (L.) Seemann	Bignoniaceae	Vine	FAC-	NI
*	<i>Cannabis sativa</i>	<i>Cannabis sativa</i> L.	Cannabaceae	Forb	FACU-	FACU
*	<i>Capsella bursa-pastoris</i>	<i>Capsella bursa-pastoris</i> (L.) Medicus	Brassicaceae	Forb	FACU	FACU
*	<i>Caragana arborescens</i>	<i>Caragana arborescens</i> Lamarck	Fabaceae	Shrub		
*	<i>Caragana aurantiaca</i>	<i>Caragana aurantiaca</i> Koehne	Fabaceae	Shrub		
<b>Not Assigned</b>	<i>Cardamine breweri</i>	<i>Cardamine breweri</i> S. Watson	Brassicaceae	Forb	NI	OBL
<b>8</b>	<i>Cardamine cordifolia</i>	<i>Cardamine cordifolia</i> A. Gray	Brassicaceae	Forb	NI	FACW+
<b>Not Assigned</b>	<i>Cardamine oligosperma</i>	<i>Cardamine oligosperma</i> Nutt. ex T. & G. var. <i>oligosperma</i>	Brassicaceae	Forb	NI	NI
<b>9</b>	<i>Cardamine pensylvanica</i>	<i>Cardamine pensylvanica</i> Mühlenberg ex Willdenow	Brassicaceae	Forb	OBL	OBL
*	<i>Cardaria chalapensis</i>	<i>Cardaria chalapensis</i> (L.) Handel-Mazzetti	Brassicaceae	Forb		
*	<i>Cardaria draba</i>	<i>Cardaria draba</i> (L.) Desvaux	Brassicaceae	Forb		
*	<i>Cardaria pubescens</i>	<i>Cardaria pubescens</i> (C. A. Meyer) Jarmolenko	Brassicaceae	Forb	NI	NI
*	<i>Carduus acanthoides</i>	<i>Carduus acanthoides</i> L.	Asteraceae	Forb		

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*	<i>Carduus nutans</i> ssp. <i>macrolepis</i>	<i>Carduus nutans</i> L. subsp. <i>macrolepis</i> (Peterman) Kazmi	Asteraceae	Forb		
8	<i>Carex albonigra</i>	<i>Carex albo-nigra</i> Mackenzie in Rydberg	Cyperaceae	Graminoid	NI	UPL
6	<i>Carex aquatilis</i>	<i>Carex aquatilis</i> Wahlenberg	Cyperaceae	Graminoid	OBL	OBL
		<i>Carex aquatilis</i> Wahlenberg subsp. <i>aquatilis</i>	Cyperaceae	Graminoid	OBL	OBL
5	<i>Carex aquatilis</i> var. <i>stans</i>	<i>Carex aquatilis</i> Wahlenberg subsp. <i>stans</i> (Drejer) Hulten	Cyperaceae	Graminoid	OBL	OBL
10	<i>Carex arapahoensis</i>	<i>Carex arapahoensis</i> Clokey	Cyperaceae	Graminoid		
6	<i>Carex atherodes</i>	<i>Carex atherodes</i> Sprengel	Cyperaceae	Graminoid	OBL	OBL
7	<i>Carex athrostachya</i>	<i>Carex athrostachya</i> Olney	Cyperaceae	Graminoid	NI	FAC
8	<i>Carex atrosquama</i>	<i>Carex atrosquama</i> Mackenzie	Cyperaceae	Graminoid	NO	FACU
7	<i>Carex aurea</i>	<i>Carex aurea</i> Nuttall	Cyperaceae	Graminoid	FACW	OBL
9	<i>Carex backii</i>	<i>Carex backii</i> F. Boott	Cyperaceae	Graminoid		
7	<i>Carex bebbii</i>	<i>Carex bebbii</i> (L. H. Bailey) Fernald	Cyperaceae	Graminoid	OBL	OBL
9	<i>Carex bella</i>	<i>Carex bella</i> L. H. Bailey	Cyperaceae	Graminoid	NI	FACU
5	<i>Carex brevior</i>	<i>Carex brevior</i> (Dewey) Mackenzie	Cyperaceae	Graminoid	FAC	FAC
9	<i>Carex brunnescens</i>	<i>Carex brunnescens</i> (Persoon) Poiret in Lamarck	Cyperaceae	Graminoid	NI	FACW
9	<i>Carex buxbaumii</i>	<i>Carex buxbaumii</i> Wahlenberg	Cyperaceae	Graminoid	OBL	OBL
8	<i>Carex canescens</i>	<i>Carex canescens</i> L.	Cyperaceae	Graminoid	NI	OBL
9	<i>Carex capillaris</i>	<i>Carex capillaris</i> L.	Cyperaceae	Graminoid	NI	FACW
10	<i>Carex capitata</i> ssp. <i>arctogena</i>	<i>Carex capitata</i> L. subsp. <i>arctogena</i> (H. Smith) Bocher	Cyperaceae	Graminoid	NO	FACW
9	<i>Carex concinna</i>	<i>Carex concinna</i> R. Brown	Cyperaceae	Graminoid	NO	FACU
Not Assigned	<i>Carex crawei</i>	<i>Carex crawei</i> Dewey	Cyperaceae	Graminoid	FACW	OBL
8	<i>Carex deweyana</i>	<i>Carex deweyana</i> Schweinitz	Cyperaceae	Graminoid	UPL	FACW
9	<i>Carex diandra</i>	<i>Carex diandra</i> Schrank	Cyperaceae	Graminoid	OBL	OBL
9	<i>Carex disperma</i>	<i>Carex disperma</i> Dewey	Cyperaceae	Graminoid	NI	FACW
5	<i>Carex douglasii</i>	<i>Carex douglasii</i> F. Boott in Hooker	Cyperaceae	Graminoid	FAC	FACU
7	<i>Carex duriuscula</i>	<i>Carex stenophylla</i> Wahlenberg subsp. <i>eleocharis</i> (L. H. Bailey) Hulten	Cyperaceae	Graminoid		
4	<i>Carex ebenea</i>	<i>Carex ebenea</i> Rydberg	Cyperaceae	Graminoid		FAC
9	<i>Carex echinata</i> ssp. <i>echinata</i>	<i>Carex angustior</i> Mackenzie in Rydberg	Cyperaceae	Graminoid	NI	OBL
Not Assigned	<i>Carex egglestonii</i>	<i>Carex egglestonii</i> Mackenzie	Cyperaceae	Graminoid		

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8	<i>Carex elynoides</i>	<i>Carex elynoides</i> Holm	Cyperaceae	Graminoid		
5	<i>Carex emoryi</i>	<i>Carex emoryi</i> Dewey in Torrey	Cyperaceae	Graminoid	OBL	OBL
10	<i>Carex engelmannii</i>	<i>Carex engelmannii</i> L. H. Bailey	Cyperaceae	Graminoid		
10	<i>Carex exsiccata</i>	<i>Carex exsiccata</i> L. H. Bailey	Cyperaceae	Graminoid	NO	OBL
6	<i>Carex filifolia</i>	<i>Carex filifolia</i> Nuttall	Cyperaceae	Graminoid		
6	<i>Carex foenea</i>	<i>Carex foenea</i> Willdenow	Cyperaceae	Graminoid	NI	NI
7	<i>Carex geophila</i>	<i>Carex geophila</i> Mackenzie	Cyperaceae	Graminoid		
6	<i>Carex geyeri</i>	<i>Carex geyeri</i> F. Boott	Cyperaceae	Graminoid		
4	<i>Carex gravida</i> var. <i>lunelliana</i>	<i>Carex gravida</i> L. H. Bailey var. <i>lunelliana</i> (Mackenzie) F. J. Hermann	Cyperaceae	Graminoid		
10	<i>Carex gynocrates</i>	<i>Carex dioica</i> L. subsp. <i>gynocrates</i> (Wormskiold) Hulten	Cyperaceae	Graminoid	NO	OBL
9	<i>Carex hallii</i>	<i>Carex parryana</i> Dewey subsp. <i>hallii</i> (Olney) D. Murray	Cyperaceae	Graminoid	FACW-	OBL
7	<i>Carex hassei</i>	<i>Carex hassei</i> L. H. Bailey	Cyperaceae	Graminoid	NI	FACW
9	<i>Carex haydeniana</i>	<i>Carex haydeniana</i> Olney	Cyperaceae	Graminoid	NI	FAC*
8	<i>Carex heteroneura</i> var. <i>brevisquama</i>	<i>Carex atrata</i> L.	Cyperaceae	Graminoid	NI	FAC
9	<i>Carex heteroneura</i> var. <i>chalciolepis</i>	<i>Carex chalciolepis</i> Holm	Cyperaceae	Graminoid		FAC
Not Assigned	<i>Carex heteroneura</i> var. <i>epapillosa</i>	<i>Carex epapillosa</i> Mackenzie in Rydberg	Cyperaceae	Graminoid		FAC
6	<i>Carex hoodii</i>	<i>Carex hoodii</i> F. Boott in Hooker	Cyperaceae	Graminoid	NI	NI
6	<i>Carex hystericina</i>	<i>Carex hystericina</i> Muhlenberg ex Willdenow	Cyperaceae	Graminoid	OBL	OBL
9	<i>Carex illota</i>	<i>Carex illota</i> L. H. Bailey	Cyperaceae	Graminoid	NI	OBL
7	<i>Carex inops</i> ssp. <i>heliophila</i>	<i>Carex pensylvanica</i> Lamarck subsp. <i>heliophila</i> (Mackenzie) W. A. Weber	Cyperaceae	Graminoid		
7	<i>Carex interior</i>	<i>Carex interior</i> L. H. Bailey	Cyperaceae	Graminoid	OBL	FACW
9	<i>Carex jonesii</i>	<i>Carex jonesii</i> L. H. Bailey	Cyperaceae	Graminoid	NO	FACW
10	<i>Carex lachenalii</i>	<i>Carex lachenalii</i> Schkuhr	Cyperaceae	Graminoid		
Not Assigned	<i>Carex laeviculmis</i>	<i>Carex laeviculmis</i> Meinshausen	Cyperaceae	Graminoid	NO	FACW
8	<i>Carex lasiocarpa</i>	<i>Carex lasiocarpa</i> Ehrhart	Cyperaceae	Graminoid	OBL	OBL
9	<i>Carex lenticularis</i> var. <i>lipocarpa</i>	<i>Carex lenticularis</i> Michaux var. <i>lipocarpa</i> (Holm) L. Standley	Cyperaceae	Graminoid	NI	OBL
10	<i>Carex leptalea</i>	<i>Carex leptalea</i> Wahlenberg	Cyperaceae	Graminoid	OBL	OBL
9	<i>Carex limosa</i>	<i>Carex limosa</i> L.	Cyperaceae	Graminoid	OBL	OBL

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<b>10</b>	<i>Carex livida</i>	<i>Carex livida</i> (Wahlenberg) Willdenow	Cyperaceae	Graminoid	NI	NI
<b>Not Assigned</b>	<i>Carex macloviana</i>	<i>Carex macloviana</i> D'Urville	Cyperaceae	Graminoid	NI	NI
<b>9</b>	<i>Carex magellanica</i> ssp. <i>irrigua</i>	<i>Carex magellanica</i> Lamarck subsp. <i>irrigua</i> (J. E. Smith) Hulten	Cyperaceae	Graminoid		OBL
<b>10</b>	<i>Carex maritima</i>	<i>Carex maritima</i> Gunnerus	Cyperaceae	Graminoid		
<b>9</b>	<i>Carex microglochin</i>	<i>Carex microglochin</i> Wahlenberg	Cyperaceae	Graminoid	NI	OBL
<b>5</b>	<i>Carex microptera</i>	<i>Carex festivella</i> Mackenzie	Cyperaceae	Graminoid	NI	FAC
		<i>Carex limnophila</i> F. J. Hermann	Cyperaceae	Graminoid	NI	OBL
		<i>Carex microptera</i> Mackenzie	Cyperaceae	Graminoid	NI	FAC
<b>9</b>	<i>Carex misandra</i>	<i>Carex misandra</i> R. Brown	Cyperaceae	Graminoid	NI	FACU
<b>Not Assigned</b>	<i>Carex molesta</i>	<i>Carex molesta</i> Mackenzie	Cyperaceae	Graminoid	FAC	NI
<b>10</b>	<i>Carex nardina</i> var. <i>hepburnii</i>	<i>Carex nardina</i> E. Fries subsp. <i>hepburnii</i> (F. Boott) Loeve et al.	Cyperaceae	Graminoid	NO	UPL
<b>5</b>	<i>Carex nebrascensis</i>	<i>Carex nebrascensis</i> Dewey	Cyperaceae	Graminoid	OBL	OBL
<b>9</b>	<i>Carex nelsonii</i>	<i>Carex nelsonii</i> Mackenzie	Cyperaceae	Graminoid	NI	OBL
<b>Not Assigned</b>	<i>Carex neurophora</i>	<i>Carex neurophora</i> Mackenzie in Abrams	Cyperaceae	Graminoid	NI	FACW
<b>8</b>	<i>Carex nigricans</i>	<i>Carex nigricans</i> C. A. Meyer	Cyperaceae	Graminoid	NI	FACW
<b>8</b>	<i>Carex norvegica</i>	<i>Carex norvegica</i> Retzius	Cyperaceae	Graminoid	NI	FACW
		<i>Carex norvegica</i> Retzius subsp. <i>norvegica</i>	Cyperaceae	Graminoid	NI	FACW
<b>8</b>	<i>Carex norvegica</i> ssp. <i>stevenii</i>	<i>Carex norvegica</i> Retzius subsp. <i>stevenii</i> (Holm) D. Murray	Cyperaceae	Graminoid	NO	FACW
<b>10</b>	<i>Carex nova</i>	<i>Carex nova</i> A. Nelson	Cyperaceae	Graminoid	NI	FAC
<b>8</b>	<i>Carex obtusata</i>	<i>Carex obtusata</i> Liljeblad	Cyperaceae	Graminoid		
<b>7</b>	<i>Carex occidentalis</i>	<i>Carex occidentalis</i> L. H. Bailey	Cyperaceae	Graminoid		
<b>8</b>	<i>Carex oreocharis</i>	<i>Carex oreocharis</i> Holm	Cyperaceae	Graminoid		
<b>Not Assigned</b>	<i>Carex pachystachya</i>	<i>Carex pachystachya</i> Chamisso ex Steudel	Cyperaceae	Graminoid	NI	FACU
<b>7</b>	<i>Carex parryana</i>	<i>Carex parryana</i> Dewey	Cyperaceae	Graminoid	FACW	FACW
		<i>Carex parryana</i> Dewey subsp. <i>parryana</i>	Cyperaceae	Graminoid	FACW	FACW
<b>10</b>	<i>Carex peckii</i>	<i>Carex peckii</i> E. C. Howe	Cyperaceae	Graminoid	UPL	
<b>6</b>	<i>Carex pellita</i>	<i>Carex lanuginosa</i> Michaux	Cyperaceae	Graminoid	OBL	OBL
<b>10</b>	<i>Carex pelocarpa</i>	<i>Carex pelocarpa</i> F. J. Hermann	Cyperaceae	Graminoid	NI	FACU
<b>10</b>	<i>Carex perglobosa</i>	<i>Carex perglobosa</i> Mackenzie	Cyperaceae	Graminoid		
<b>Not Assigned</b>	<i>Carex petasata</i>	<i>Carex petasata</i> Dewey	Cyperaceae	Graminoid	NI	NI

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9	<i>Carex phaeocephala</i>	<i>Carex phaeocephala</i> Piper	Cyperaceae	Graminoid	NI	UPL
8	<i>Carex pityophila</i>	<i>Carex pityophila</i> Mackenzie	Cyperaceae	Graminoid		
9	<i>Carex praeceptorium</i>	<i>Carex praeceptorium</i> Mackenzie	Cyperaceae	Graminoid	NO	OBL
5	<i>Carex praegracilis</i>	<i>Carex praegracilis</i> F. Boott	Cyperaceae	Graminoid	FACW	FACW
6	<i>Carex praticola</i>	<i>Carex praticola</i> Rydberg	Cyperaceae	Graminoid	FACW	FACU*
10	<i>Carex pseudoscirpoidea</i>	<i>Carex pseudoscirpoidea</i> Rydberg	Cyperaceae	Graminoid	NO	FACU
10	<i>Carex pyrenaica</i> ssp. <i>pyrenaica</i>	<i>Carex crandallii</i> Gンドger	Cyperaceae	Graminoid		FACW
8	<i>Carex raynoldsii</i>	<i>Carex raynoldsii</i> Dewey	Cyperaceae	Graminoid	NI	FAC*
7	<i>Carex retrorsa</i>	<i>Carex retrorsa</i> Schweinitz	Cyperaceae	Graminoid	NO	OBL
6	<i>Carex rossii</i>	<i>Carex brevipes</i> F. Boott	Cyperaceae	Graminoid		
		<i>Carex rossii</i> F. Boott in Hooker	Cyperaceae	Graminoid		
9	<i>Carex rupestris</i> var. <i>drummondiana</i>	<i>Carex rupestris</i> Allioni subsp. <i>drummondiana</i> (Dewey) Holub	Cyperaceae	Graminoid	NO	UPL
9	<i>Carex sartwellii</i>	<i>Carex sartwellii</i> Dewey	Cyperaceae	Graminoid	OBL	OBL
8	<i>Carex saxatilis</i>	<i>Carex saxatilis</i> L. subsp. <i>laxa</i> (Trautvetter) Kalela	Cyperaceae	Graminoid	NI	OBL
10	<i>Carex saximontana</i>	<i>Carex saximontana</i> Mackenzie	Cyperaceae	Graminoid		
9	<i>Carex scirpoidea</i>	<i>Carex scirpoidea</i> Michaux (also see <i>C. pseudoscirpoidea</i> )	Cyperaceae	Graminoid	NO	FACU
6	<i>Carex scoparia</i>	<i>Carex scoparia</i> Schkuhr ex Willdenow	Cyperaceae	Graminoid	FACW	FACW
7	<i>Carex scopulorum</i>	<i>Carex scopulorum</i> Holm	Cyperaceae	Graminoid	NI	FACW
6	<i>Carex simulata</i>	<i>Carex simulata</i> Mackenzie	Cyperaceae	Graminoid	NI	FACW+
10	<i>Carex sprengelii</i>	<i>Carex sprengelii</i> Dewey ex Sprengel	Cyperaceae	Graminoid	FAC-	FAC
Not Assigned	<i>Carex stenoptila</i>	<i>Carex stenoptila</i> F. J. Hermann	Cyperaceae	Graminoid		
Not Assigned	<i>Carex stipata</i>	<i>Carex stipata</i> Muhlenberg ex Willdenow	Cyperaceae	Graminoid	OBL	OBL
*	<i>Carex sychnocephala</i>	<i>Carex sychnocephala</i> Carey	Cyperaceae	Graminoid	NI	FACW
10	<i>Carex tenuiflora</i>	<i>Carex tenuiflora</i> Wahlenberg	Cyperaceae	Graminoid	NO	OBL
8	<i>Carex torreyi</i>	<i>Carex torreyi</i> Tuckerman	Cyperaceae	Graminoid	UPL	UPL
5	<i>Carex utriculata</i>	<i>Carex utriculata</i> F. Boott	Cyperaceae	Graminoid	OBL	OBL
Not Assigned	<i>Carex vallicola</i>	<i>Carex vallicola</i> Dewey	Cyperaceae	Graminoid		
10	<i>Carex vernacula</i>	<i>Carex vernacula</i> L. H. Bailey	Cyperaceae	Graminoid	NI	FACW
*	<i>Carex vesicaria</i>	<i>Carex vesicaria</i> L.	Cyperaceae	Graminoid	OBL	OBL
9	<i>Carex viridula</i>	<i>Carex viridula</i> Michaux	Cyperaceae	Graminoid	OBL	OBL

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5	<i>Carex vulpinoidea</i>	<i>Carex vulpinoidea</i> Michaux	Cyperaceae	Graminoid	OBL	OBL
<b>Not Assigned</b>	<i>Carex xerantica</i>	<i>Carex xerantica</i> L. H. Bailey	Cyperaceae	Graminoid		
*	<i>Carthamus tinctorius</i>	<i>Carthamus tinctorius</i> L.	Asteraceae	Forb		
*	<i>Carum carvi</i>	<i>Carum carvi</i> L.	Apiaceae	Forb	NI	FACU
*	<i>Caryopteris ×clandonensis</i>	<i>Caryopteris clandonensis</i> A. Simmonds ex Rehder	Verbenaceae	Shrub		
7	<i>Castilleja applegatei</i> ssp. <i>martinii</i>	<i>Castilleja chromosa</i> A. Nelson	Scrophulariaceae	Forb		
7	<i>Castilleja flava</i>	<i>Castilleja flava</i> S. Watson	Scrophulariaceae	Forb		
9	<i>Castilleja haydenii</i>	<i>Castilleja haydenii</i> (A. Gray) Cockerell	Scrophulariaceae	Forb		
6	<i>Castilleja integra</i>	<i>Castilleja integra</i> A. Gray in Torrey	Scrophulariaceae	Forb		
6	<i>Castilleja linariifolia</i>	<i>Castilleja linariifolia</i> Bentham in De Candolle	Scrophulariaceae	Forb		
8	<i>Castilleja lineata</i>	<i>Castilleja lineata</i> Greene	Scrophulariaceae	Forb	NI	FACW
7	<i>Castilleja miniata</i>	<i>Castilleja miniata</i> Douglas ex Hooker	Scrophulariaceae	Forb	NI	FAC
8	<i>Castilleja minor</i>	<i>Castilleja minor</i> A. Gray	Scrophulariaceae	Forb	NI	OBL
8	<i>Castilleja occidentalis</i>	<i>Castilleja occidentalis</i> Torrey	Scrophulariaceae	Forb	NI	FACU
8	<i>Castilleja puberula</i>	<i>Castilleja puberula</i> Rydberg	Scrophulariaceae	Forb		
8	<i>Castilleja rhexiifolia</i>	<i>Castilleja rhexiifolia</i> Rydberg	Scrophulariaceae	Forb	NI	FACU
9	<i>Castilleja scabrida</i>	<i>Castilleja scabrida</i> Eastwood	Scrophulariaceae	Forb		
7	<i>Castilleja sessiliflora</i>	<i>Castilleja sessiliflora</i> Pursh	Scrophulariaceae	Forb		
7	<i>Castilleja sulphurea</i>	<i>Castilleja sulphurea</i> Rydberg	Scrophulariaceae	Forb	NI	FACU
7	<i>Catabrosa aquatica</i>	<i>Catabrosa aquatica</i> (L.) P. Beauvois	Poaceae	Graminoid	OBL	OBL
6	<i>Caulanthus crassicaulis</i>	<i>Caulanthus crassicaulis</i> (Torrey) S. Watson	Brassicaceae	Forb		
7	<i>Ceanothus fendleri</i>	<i>Ceanothus fendleri</i> A. Gray	Rhamnaceae	Shrub		
7	<i>Ceanothus herbaceus</i>	<i>Ceanothus herbaceus</i> Rafinesque	Rhamnaceae	Shrub		
7	<i>Ceanothus martinii</i>	<i>Ceanothus martinii</i> Jones	Rhamnaceae	Shrub		
7	<i>Ceanothus velutinus</i>	<i>Ceanothus velutinus</i> Douglas ex Hooker	Rhamnaceae	Shrub		
6	<i>Celtis laevigata</i> var. <i>reticulata</i>	<i>Celtis reticulata</i> Torrey	Ulmaceae	Shrub	FACW	FAC
1	<i>Cenchrus longispinus</i>	<i>Cenchrus longispinus</i> (Hackel in Kneucker) Fernald	Poaceae	Graminoid		
*	<i>Centaurea biebersteinii</i>	<i>Acosta maculosa</i> (L.) Holub	Asteraceae	Forb		
*	<i>Centaurea cyanus</i>	<i>Leucantha cyanus</i> (L.) Nieuwland & Lunell	Asteraceae	Forb		
*	<i>Centaurea diffusa</i>	<i>Acosta diffusa</i> (Lamarck) Soják	Asteraceae	Forb		
*	<i>Centaurea eriophora</i>	<i>Jacea pratensis</i> Lamarck	Asteraceae	Forb		

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*	Centaurea macrocephala	Grossheimia macrocephala (Mussin-Puschkin) Sosnowsky & Takhtajan	Asteraceae	Forb		
*	Centaurea solstitialis	Leucantha solstitialis (L.) Loeve & Loeve	Asteraceae	Forb		
7	Centaurium calycosum	Centaurium calycosum (Buckley) Fernald	Gentianaceae	Forb	NO	FACW
7	Centaurium exaltatum	Centaurium exaltatum (Grisebach) W. F. Wight ex Piper	Gentianaceae	Forb	OBL	FACW
*	Centaurium pulchellum	Centaurium pulchellum (Swartz) Druce	Gentianaceae	Forb	NI	NO
5	Cerastium arvense ssp. strictum	Cerastium strictum L. {emend.} Haenke	Caryophyllaceae	Forb	FACU	UPL
7	Cerastium beeringianum ssp. earlei	Cerastium beeringianum Chamisso & Schlechtendal subsp. earlei (Rydberg) Hulten	Caryophyllaceae	Forb	NO	FAC
Not Assigned	Cerastium brachypodium	Cerastium nutans Rafinesque var. brachypodium Engelmann ex A. Gray	Caryophyllaceae	Forb	FACU	FAC
*	Cerastium fontanum	Cerastium fontanum Baumgartner	Caryophyllaceae	Forb		FACU
*	Ceratocephala testiculata	Ceratocephala orthoceras De Candolle	Ranunculaceae	Forb		
1	Ceratophyllum demersum	Ceratophyllum demersum L.	Ceratophyllaceae	Forb	OBL	OBL
8	Cercocarpus intricatus	Cercocarpus intricatus S. Watson	Rosaceae	Shrub		
7	Cercocarpus ledifolius	Cercocarpus ledifolius Nuttall ex Torrey & Gray	Rosaceae	Shrub		
6	Cercocarpus montanus	Cercocarpus montanus Rafinesque	Rosaceae	Shrub		
5	Chaenactis douglasii	Chaenactis douglasii (Hooker) Hooker & Arnott	Asteraceae	Forb		
6	Chaenactis douglasii var. alpina	Chaenactis alpina (A. Gray) Jones	Asteraceae	Forb		
3	Chaenactis stevioides	Chaenactis stevioides Hooker & Arnott	Asteraceae	Forb		
*	Chaenorhinum minus	Chaenorhinum minus (L.) J. Lange in Willkomm & Lange	Scrophulariaceae	Forb		
4	Chaetopappa ericoides	Chaetopappa ericoides (A. Gray) Nesom	Asteraceae	Forb		
9	Chamaechaenactis scaposa	Chamaechaenactis scaposa (Eastwood) Rydberg	Asteraceae	Forb		
Not Assigned	Chamaerhodos erecta ssp. nuttallii	Chamaerhodos erecta (L.) Bunge subsp. nuttallii (Pickering ex Rydberg) Hulten	Rosaceae	Forb		
5	Chamaesaracha coniodes	Chamaesaracha coniodes (Moricand) Britton	Solanaceae	Forb		
5	Chamaesaracha coronopus	Chamaesaracha coronopus (Dunal) A. Gray	Solanaceae	Forb		
5	Chamaesyce fendleri	Chamaesyce fendleri (Torrey & Gray) Small	Euphorbiaceae	Forb		
5	Chamaesyce geyeri	Chamaesyce geyeri (Engelmann) Small	Euphorbiaceae	Forb		
2	Chamaesyce glyptosperma	Chamaesyce glyptosperma (Engelmann) Small	Euphorbiaceae	Forb		
7	Chamaesyce lata	Chamaesyce lata (Engelmann) Small	Euphorbiaceae	Forb		

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*	<i>Chamaesyce maculata</i>	<i>Chamaesyce supina</i> (Rafinesque) Moldenke	Euphorbiaceae	Forb		UPL
6	<i>Chamaesyce missurica</i>	<i>Chamaesyce missurica</i> (Rafinesque) Shinners	Euphorbiaceae	Forb		
<b>Not Assigned</b>	<i>Chamaesyce parryi</i>	<i>Chamaesyce parryi</i> (Engelmann) Rydberg	Euphorbiaceae	Forb		
4	<i>Chamaesyce revoluta</i>	<i>Chamaesyce revoluta</i> (Engelmann) Small	Euphorbiaceae	Forb		
*	<i>Chamaesyce serpens</i>	<i>Chamaesyce serpens</i> (Humboldt, Bonpland, & Kunth) Small	Euphorbiaceae	Forb	UPL	NO
*	<i>Chamaesyce serpyllifolia</i>	<i>Chamaesyce serpyllifolia</i> (Persoon) Small	Euphorbiaceae	Forb		
1	<i>Chamaesyce stictospora</i>	<i>Chamaesyce stictospora</i> (Engelmann) Small	Euphorbiaceae	Forb		
4	<i>Chamerion angustifolium</i> ssp. <i>circumvagum</i>	<i>Chamerion danielsii</i> D. Loeve	Onagraceae	Forb	FAC	FACU
7	<i>Chamerion latifolium</i>	<i>Chamerion subdentatum</i> (Rydberg) Loeve & Loeve	Onagraceae	Forb	NO	FACW
9	<i>Cheilanthes eatonii</i>	<i>Cheilanthes eatonii</i> J. G. Baker in Hooker & Baker	Pteridaceae	Forb		
9	<i>Cheilanthes feei</i>	<i>Cheilanthes feei</i> T. Moore	Pteridaceae	Forb		
9	<i>Cheilanthes fendleri</i>	<i>Cheilanthes fendleri</i> Hooker	Pteridaceae	Forb		
9	<i>Cheilanthes wootonii</i>	<i>Cheilanthes wootonii</i> Maxon	Pteridaceae	Forb		
*	<i>Chenopodium album</i>	<i>Chenopodium album</i> L.	Chenopodiaceae	Forb	FAC	FACU
2	<i>Chenopodium album</i> var. <i>missouriense</i>	<i>Chenopodium missouriense</i> Aellen	Chenopodiaceae	Forb		
3	<i>Chenopodium album</i> var. <i>striatum</i>	<i>Chenopodium strictum</i> Roth	Chenopodiaceae	Forb		
*	<i>Chenopodium ambrosioides</i> var. <i>ambrosioides</i>	<i>Teloxys ambrosioides</i> (L.) W. A. Weber	Chenopodiaceae	Forb	FAC	FAC-
5	<i>Chenopodium atrovirens</i>	<i>Chenopodium aridum</i> Nelson	Chenopodiaceae	Forb		
		<i>Chenopodium atrovirens</i> Rydberg	Chenopodiaceae	Forb		
2	<i>Chenopodium berlandieri</i>	<i>Chenopodium berlandieri</i> Moquin	Chenopodiaceae	Forb		
*	<i>Chenopodium botrys</i>	<i>Teloxys botrys</i> (L.) W. A. Weber	Chenopodiaceae	Forb	FACU	FACU
*	<i>Chenopodium capitatum</i>	<i>Chenopodium capitatum</i> (L.) Ascherson	Chenopodiaceae	Forb		
9	<i>Chenopodium cycloides</i>	<i>Chenopodium cycloides</i> A. Nelson	Chenopodiaceae	Forb		
3	<i>Chenopodium desiccatum</i>	<i>Chenopodium desiccatum</i> A. Nelson	Chenopodiaceae	Forb		
		<i>Chenopodium leptophyllum</i> (Nuttall ex Moquin) S. Watson var. <i>oblongifolium</i> S. Watson	Chenopodiaceae	Forb	NI	FACU
*	<i>Chenopodium foliosum</i>	<i>Chenopodium foliosum</i> (Moench) Ascherson	Chenopodiaceae	Forb	NI	FACU*
6	<i>Chenopodium fremontii</i>	<i>Chenopodium fremontii</i> S. Watson	Chenopodiaceae	Forb	UPL	FACU

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*	<i>Chenopodium glaucum</i>	<i>Chenopodium glaucum</i> L.	Chenopodiaceae	Forb	FACW	FACW
*	<i>Chenopodium graveolens</i>	<i>Teloxys graveolens</i> (Willdenow) W. A. Weber	Chenopodiaceae	Forb		
<b>Not Assigned</b>	<i>Chenopodium hians</i>	<i>Chenopodium hians</i> Standley	Chenopodiaceae	Forb		
<b>5</b>	<i>Chenopodium incanum</i>	<i>Chenopodium incanum</i> (S. Watson) Heller	Chenopodiaceae	Forb		
<b>5</b>	<i>Chenopodium leptophyllum</i>	<i>Chenopodium leptophyllum</i> (Nuttall ex Moquin) S. Watson	Chenopodiaceae	Forb	NI	FACU
		<i>Chenopodium leptophyllum</i> (Nuttall ex Moquin) S. Watson var. <i>leptophyllum</i>	Chenopodiaceae	Forb	FACU	FACU
<b>4</b>	<i>Chenopodium pratericola</i>	<i>Chenopodium pratericola</i> Rydberg	Chenopodiaceae	Forb		
<b>2</b>	<i>Chenopodium rubrum</i>	<i>Chenopodium rubrum</i> L.	Chenopodiaceae	Forb	OBL	OBL
<b>2</b>	<i>Chenopodium simplex</i>	<i>Chenopodium simplex</i> (Torrey) Rafinesque	Chenopodiaceae	Forb		
<b>5</b>	<i>Chenopodium subglabrum</i>	<i>Chenopodium subglabrum</i> (S. Watson) A. Nelson	Chenopodiaceae	Forb		
<b>4</b>	<i>Chenopodium watsonii</i>	<i>Chenopodium watsonii</i> A. Nelson	Chenopodiaceae	Forb		
<b>9</b>	<i>Chimaphila umbellata</i> ssp. <i>occidentalis</i>	<i>Chimaphila umbellata</i> (L.) W. Barton subsp. <i>occidentalis</i> (Rydberg) Hulten	Pyrolaceae	Shrub		
<b>9</b>	<i>Chionophila jamesii</i>	<i>Chionophila jamesii</i> Bentham in De Candolle	Scrophulariaceae	Forb	NI	FACU
<b>1</b>	<i>Chloris verticillata</i>	<i>Chloris verticillata</i> Nuttall	Poaceae	Graminoid		
*	<i>Chloris virgata</i>	<i>Chloris virgata</i> Swartz	Poaceae	Graminoid	NI	NI
*	<i>Chorispora tenella</i>	<i>Chorispora tenella</i> (Pallas) De Candolle	Brassicaceae	Forb		
*	<i>Chrysanthemum coccineum</i>	<i>Chrysanthemum coccineum</i> Willdenow	Asteraceae	Forb		
*	<i>Chrysanthemum coronarium</i>	<i>Chrysanthemum coronarium</i> L.	Asteraceae	Forb		
<b>10</b>	<i>Chrysosplenium tetrandrum</i>	<i>Chrysosplenium tetrandrum</i> (N. Lund) Th. Fries	Saxifragaceae	Forb	NI	OBL
<b>3</b>	<i>Chrysothamnus baileyi</i>	<i>Chrysothamnus pulchellus</i> (A. Gray) Greene subsp. <i>baileyi</i> (Wooton & Standley) Hall & Clements	Asteraceae	Shrub		
<b>6</b>	<i>Chrysothamnus depressus</i>	<i>Chrysothamnus depressus</i> Nuttall	Asteraceae	Shrub		
<b>6</b>	<i>Chrysothamnus greenei</i>	<i>Chrysothamnus greenei</i> (A. Gray) Greene	Asteraceae	Shrub		
		<i>Chrysothamnus greenei</i> (A. Gray) Greene subsp. <i>filiifolius</i> (Rydberg) Hall & Clements	Asteraceae	Shrub		
		<i>Chrysothamnus greenei</i> (A. Gray) Greene subsp. <i>greenei</i>	Asteraceae	Shrub		
<b>6</b>	<i>Chrysothamnus linifolius</i>	<i>Chrysothamnus linifolius</i> Greene	Asteraceae	Shrub	NO	FAC
<b>Not Assigned</b>	<i>Chrysothamnus vaseyi</i>	<i>Chrysothamnus vaseyi</i> (A. Gray) Greene	Asteraceae	Shrub		
<b>5</b>	<i>Chrysothamnus viscidiflorus</i>	<i>Chrysothamnus viscidiflorus</i> (Hooker) Nuttall	Asteraceae	Shrub		

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<b>Not Assigned</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>axillaris</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>axillaris</i> (Keck) L. C. Anderson	Asteraceae	Shrub		
<b>5</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>lanceolatus</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>elegans</i> (Greene) Hall & Clements	Asteraceae	Shrub		
		<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>lanceolatus</i> (Nuttall) Hall & Clements	Asteraceae	Shrub		
<b>Not Assigned</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>puberulus</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>puberulus</i> (D. C. Eaton) Hall & Clements	Asteraceae	Shrub		
<b>4</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>viscidiflorus</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>viscidiflorus</i>	Asteraceae	Shrub		
<b>Not Assigned</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>latifolius</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>latifolius</i> (D. C. Eaton) Hall & Clements	Asteraceae	Shrub		
<b>4</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>stenophyllus</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>stenophyllus</i> (A. Gray) Hall & Clements	Asteraceae	Shrub		
<b>4</b>	<i>Chrysanthemum viscidiflorus</i> ssp. <i>viscidiflorus</i> var. <i>viscidiflorus</i>	<i>Chrysanthemum viscidiflorus</i> (Hooker) Nuttall subsp. <i>pumilus</i> (Nuttall) Hall & Clements	Asteraceae	Shrub		
*	<i>Cichorium intybus</i>	<i>Cichorium intybus</i> L.	Asteraceae	Forb	NI	FACU
<b>3</b>	<i>Cicuta douglasii</i>	<i>Cicuta douglasii</i> (De Candolle) Coulter & Rose	Apiaceae	Forb	NI	OBL
<b>6</b>	<i>Cinna latifolia</i>	<i>Cinna latifolia</i> (Treviranus) Grisebach in Ledebour	Poaceae	Graminoid	NI	OBL
<b>8</b>	<i>Circaeа alpina</i>	<i>Circaeа alpina</i> L.	Onagraceae	Forb	FACW	FACW
<b>8</b>	<i>Circaeа alpina</i> ssp. <i>alpina</i>	<i>Circaeа alpina</i> L. subsp. <i>alpina</i>	Onagraceae	Forb	FACW	FACW
<b>8</b>	<i>Circaeа alpina</i> ssp. <i>pacifica</i>	<i>Circaeа alpina</i> L. subsp. <i>pacifica</i> (Ascherson & Magnus) Raven	Onagraceae	Forb	FACW	FACW
<b>5</b>	<i>Cirsium araneans</i>	<i>Cirsium araneans</i> Rydberg	Asteraceae	Forb		
*	<i>Cirsium arvense</i>	<i>Breea arvensis</i> (L.) Lessing	Asteraceae	Forb	FACU	FACU
		<i>Breea incana</i> (S. G. Gmelin) W. A. Weber, ined.	Asteraceae	Forb	FACU	FACU
<b>6</b>	<i>Cirsium barnebyi</i>	<i>Cirsium barnebyi</i> Welsh & Neese	Asteraceae	Forb		
<b>8</b>	<i>Cirsium calcareum</i>	<i>Cirsium calcareum</i> (Jones) Wooton & Standley	Asteraceae	Forb		
<b>6</b>	<i>Cirsium canescens</i>	<i>Cirsium canescens</i> Nuttall	Asteraceae	Forb		
<b>6</b>	<i>Cirsium eatonii</i>	<i>Cirsium eatonii</i> (Gray) Robinson	Asteraceae	Forb		
		<i>Cirsium tweedyi</i> (Rydberg) Petrak	Asteraceae	Forb		
<b>3</b>	<i>Cirsium flodmanii</i>	<i>Cirsium flodmanii</i> (Rydberg) Arthur	Asteraceae	Forb	NI	NI
<b>4</b>	<i>Cirsium neomexicanum</i>	<i>Cirsium neomexicanum</i> A. Gray	Asteraceae	Forb		

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4	<i>Cirsium ochrocentrum</i>	<i>Cirsium ochrocentrum</i> A. Gray	Asteraceae	Forb		
6	<i>Cirsium osterhoutii</i>	<i>Cirsium osterhoutii</i> (Rydberg) Petrik	Asteraceae	Forb		
9	<i>Cirsium ownbeyi</i>	<i>Cirsium ownbeyi</i> Welsh	Asteraceae	Forb		
Not Assigned	<i>Cirsium pallidum</i>	<i>Cirsium pallidum</i> Wooton & Standley	Asteraceae	Forb	NO	FACW
5	<i>Cirsium parryi</i>	<i>Cirsium parryi</i> (A. Gray) Petrik	Asteraceae	Forb	NI	FACW
6	<i>Cirsium perplexans</i>	<i>Cirsium perplexans</i> (Rydberg) Petrik	Asteraceae	Forb		
6	<i>Cirsium remotifolium</i> ssp. <i>oregonense</i>	<i>Cirsium centaureae</i> (Rydberg) K. Schumann	Asteraceae	Forb		
Not Assigned	<i>Cirsium scapanolepis</i>	<i>Cirsium scapanolepis</i> Petrik	Asteraceae	Forb		
6	<i>Cirsium scariosum</i>	<i>Cirsium scariosum</i> Nuttall	Asteraceae	Forb	NO	NI
6	<i>Cirsium scopulorum</i>	<i>Cirsium hesperium</i> (Eastwood) Petrik	Asteraceae	Forb		
		<i>Cirsium scopulorum</i> (Greene) Cockerell	Asteraceae	Forb		
5	<i>Cirsium tiogianum</i> var. <i>coloradense</i>	<i>Cirsium coloradense</i> (Rydberg) Cockerell	Asteraceae	Forb	NI	NI
5	<i>Cirsium undulatum</i>	<i>Cirsium undulatum</i> (Nuttall) Sprengel	Asteraceae	Forb	FACU	FACU
5	<i>Cirsium undulatum</i> var. <i>tracyi</i>	<i>Cirsium tracyi</i> (Rydberg) Petrik	Asteraceae	Forb		
*	<i>Cirsium vulgare</i>	<i>Cirsium vulgare</i> (Savi) Tenore	Asteraceae	Forb	UPL	FAC
7	<i>Claytonia lanceolata</i>	<i>Claytonia lanceolata</i> Pursh	Portulacaceae	Forb	NI	UPL
8	<i>Claytonia megarhiza</i>	<i>Claytonia megarhiza</i> (Parry ex A. Gray) S. Watson	Portulacaceae	Forb	NI	FACU-
7	<i>Claytonia rosea</i>	<i>Claytonia rosea</i> Rydberg	Portulacaceae	Forb		
7	<i>Claytonia rubra</i>	<i>Claytonia rubra</i> (Howell) Tidestrom	Portulacaceae	Forb		FAC-
6	<i>Clematis columbiana</i>	<i>Atragene occidentalis</i> Hornemann	Ranunculaceae	Vine		
6	<i>Clematis columbiana</i> var. <i>columbiana</i>	<i>Atragene columbiana</i> Nuttall	Ranunculaceae	Vine		
6	<i>Clematis hirsutissima</i> var. <i>hirsutissima</i>	<i>Coriflora hirsutissima</i> (Pursh) W. A. Weber	Ranunculaceae	Forb		
6	<i>Clematis hirsutissima</i> var. <i>scottii</i>	<i>Coriflora scottii</i> (T. C. Porter in Porter & Coulter) W. A. Weber	Ranunculaceae	Forb		
4	<i>Clematis ligusticifolia</i>	<i>Clematis ligusticifolia</i> Nuttall ex Torrey & Gray	Ranunculaceae	Vine	FACU	FACU
*	<i>Clematis orientalis</i>	<i>Viticella orientalis</i> (L.) W. A. Weber	Ranunculaceae	Vine		
3	<i>Cleome lutea</i>	<i>Cleome lutea</i> Hooker	Capparaceae	Forb	FACU	UPL
4	<i>Cleome multicaulis</i>	<i>Cleome multicaulis</i> Sesse & Mocino ex De Candolle	Capparaceae	Forb		FACW
2	<i>Cleome serrulata</i>	<i>Cleome serrulata</i> Pursh	Capparaceae	Forb	FACU	FACU
6	<i>Cleomella angustifolia</i>	<i>Cleomella angustifolia</i> Torrey	Capparaceae	Forb	FAC	NI
Not Assigned	<i>Cleomella palmeriana</i>	<i>Cleomella palmerana</i> Jones	Capparaceae	Forb		

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*	<i>Clinopodium vulgare</i>	<i>Clinopodium vulgare</i> L.	Lamiaceae	Forb		
7	<i>Coeloglossum viride</i> var. <i>virescens</i>	<i>Coeloglossum viride</i> (L.) C. J. Hartman subsp. <i>bracteatum</i> (Muhlenberg ex Willdenow) Hulten	Orchidaceae	Forb	FAC	FAC
6	<i>Coleogyne ramosissima</i>	<i>Coleogyne ramosissima</i> Torrey	Rosaceae	Shrub		
4	<i>Collinsia parviflora</i>	<i>Collinsia parviflora</i> Douglas in Lindley	Scrophulariaceae	Forb		
5	<i>Collomia grandiflora</i>	<i>Collomia grandiflora</i> Douglas ex Lindley	Polemoniaceae	Forb		
4	<i>Collomia linearis</i>	<i>Collomia linearis</i> Nuttall	Polemoniaceae	Forb	FACU	FACU
*	<i>Colutea arborescens</i>	<i>Colutea arborescens</i> L.	Fabaceae	Shrub		
5	<i>Comandra umbellata</i> ssp. <i>pallida</i>	<i>Comandra umbellata</i> (L.) Nuttall subsp. <i>pallida</i> (A. De Candolle) Piehl	Santalaceae	Forb	UPL	UPL
9	<i>Comarum palustre</i>	<i>Comarum palustre</i> L.	Rosaceae	Forb	OBL	OBL
9	<i>Commelina dianthifolia</i>	<i>Commelina dianthifolia</i> Delile	Commelinaceae	Forb		
5	<i>Commelina erecta</i> var. <i>angustifolia</i>	<i>Commelina erecta</i> L. var. <i>angustifolia</i> (Michaux) Fernald	Commelinaceae	Forb		
10	<i>Conimitella williamsii</i>	<i>Conimitella williamsii</i> (D. C. Eaton) Rydberg	Saxifragaceae	Forb		
7	<i>Conioselinum scopulorum</i>	<i>Conioselinum scopulorum</i> (A. Gray) Coulter & Rose	Apiaceae	Forb	NI	FACW
*	<i>Conium maculatum</i>	<i>Conium maculatum</i> L.	Apiaceae	Forb	FACW	FACW
<b>Not Assigned</b>	<i>Conopholis alpina</i> var. <i>mexicana</i>	<i>Conopholis alpina</i> Liebmann var. <i>mexicana</i> (A. Gray ex S. Watson) Haynes	Orobanchaceae	Forb		
		<i>Orobanche multiflora</i> Nuttall var. <i>multiflora</i>	Orobanchaceae	Forb		
*	<i>Conringia orientalis</i>	<i>Conringia orientalis</i> (L.) Dumont de Cours	Brassicaceae	Forb		
*	<i>Convolvulus arvensis</i>	<i>Convolvulus arvensis</i> L.	Convolvulaceae	Vine, Forb/herb		
2	<i>Convolvulus equitans</i>	<i>Convolvulus equitans</i> Bentham	Convolvulaceae	Vine, Forb/herb	NI	NI
*	<i>Conyzia canadensis</i>	<i>Conyzia canadensis</i> (L.) Cronquist	Asteraceae	Forb	FACW	UPL
7	<i>Corallorrhiza maculata</i>	<i>Corallorrhiza maculata</i> Rafinesque	Orchidaceae	Forb	UPL	UPL
7	<i>Corallorrhiza striata</i>	<i>Corallorrhiza striata</i> Lindley	Orchidaceae	Forb	UPL	FACU-
8	<i>Corallorrhiza trifida</i>	<i>Corallorrhiza trifida</i> (L.) Chatelain	Orchidaceae	Forb	FAC	FAC
<b>Not Assigned</b>	<i>Corallorrhiza wisteriana</i>	<i>Corallorrhiza wisteriana</i> Conrad	Orchidaceae	Forb	FACU	FACU
5	<i>Cordylanthus ramosus</i>	<i>Cordylanthus ramosus</i> Nuttall	Scrophulariaceae	Forb		
5	<i>Cordylanthus wrightii</i>	<i>Cordylanthus wrightii</i> A. Gray	Scrophulariaceae	Forb		
*	<i>Coreopsis lanceolata</i>	<i>Coreopsis lanceolata</i> L.	Asteraceae	Forb	UPL	NI
3	<i>Coreopsis tinctoria</i>	<i>Coreopsis tinctoria</i> Nuttall	Asteraceae	Forb	FAC	NI

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4	<i>Corispermum americanum</i>	<i>Corispermum americanum</i> (Nuttall) Nuttall	Chenopodiaceae	Forb		
*	<i>Corispermum americanum</i> var. <i>rydbergii</i>	<i>Corispermum hyssopifolium</i> L.	Chenopodiaceae	Forb	FACU	FACU
6	<i>Corispermum navicula</i>	<i>Corispermum navicula</i> Mosyakin	Chenopodiaceae	Forb		
<b>Not Assigned</b>	<i>Corispermum villosum</i>	<i>Corispermum villosum</i> Rydberg	Chenopodiaceae	Forb		
9	<i>Cornus canadensis</i>	<i>Chamaepericlymenum canadense</i> (L.) Ascherson & Graebner	Cornaceae	Forb	FAC	FAC
7	<i>Cornus sericea</i> ssp. <i>sericea</i>	<i>Swida sericea</i> (L.) Holub	Cornaceae	Shrub	FACW	FACW
*	<i>Coronilla varia</i>	<i>Securigera varia</i> (L.) Lassen	Fabaceae	Vine, Forb/herb		
5	<i>Corydalis aurea</i>	<i>Corydalis aurea</i> Willdenow	Fumariaceae	Forb		
7	<i>Corydalis caseana</i>	<i>Corydalis caseana</i> A. Gray subsp. <i>brandegei</i> (S. Watson) G. Ownbey	Fumariaceae	Forb	NI	FACW
5	<i>Corydalis curvisiliqua</i> ssp. <i>occidentalis</i>	<i>Corydalis curvisiliqua</i> Engelmann subsp. <i>occidentalis</i> (Engelmann ex A. Gray) W. A. Weber	Fumariaceae	Forb		
8	<i>Corylus cornuta</i>	<i>Corylus cornuta</i> H. Marshall	Betulaceae	Shrub	UPL	FACU
*	<i>Cosmos bipinnatus</i>	<i>Cosmos bipinnatus</i> Cavanilles	Asteraceae	Forb	NI	FACW
*	<i>Cosmos parviflorus</i>	<i>Cosmos parviflorus</i> (Jacquin) Humboldt, Bonpland, & Kunth	Asteraceae	Forb	NI	NI
<b>Not Assigned</b>	<i>Crassula aquatica</i>	<i>Crassula aquatica</i> (L.) Schonland	Crassulaceae	Forb	NO	OBL
5	<i>Crataegus chrysocarpa</i>	<i>Crataegus chrysocarpa</i> Ashe	Rosaceae	Shrub		
6	<i>Crataegus erythropoda</i>	<i>Crataegus erythropoda</i> Ashe	Rosaceae	Shrub	NI	NI
6	<i>Crataegus rivularis</i>	<i>Crataegus rivularis</i> Nuttall	Rosaceae	Shrub		FAC
6	<i>Crataegus saligna</i>	<i>Crataegus saligna</i> Greene	Rosaceae	Shrub		
5	<i>Crataegus succulenta</i>	<i>Crataegus macracantha</i> Loddiges var. <i>occidentalis</i> (Britton) Eggleston	Rosaceae	Shrub		
		<i>Crataegus succulenta</i> Schrader ex Link	Rosaceae	Shrub		
6	<i>Crepis acuminata</i> ssp. <i>acuminata</i>	<i>Psilochnenia acuminata</i> (Nuttall) W. A. Weber	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Crepis atribarba</i> ssp. <i>atribarba</i>	<i>Psilochnenia atribarba</i> (Heller) W. A. Weber	Asteraceae	Forb		
*	<i>Crepis capillaris</i>	<i>Crepis capillaris</i> (L.) Wallroth	Asteraceae	Forb	NI	FACU*
6	<i>Crepis intermedia</i>	<i>Psilochnenia intermedia</i> (A. Gray) W. A. Weber	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Crepis modocensis</i> ssp. <i>modocensis</i>	<i>Psilochnenia modocensis</i> (Greene) W. A. Weber	Asteraceae	Forb		
9	<i>Crepis nana</i> ssp. <i>nana</i>	<i>Askellia nana</i> (Richardson) W. A. Weber	Asteraceae	Forb		

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3	Crepis occidentalis	<i>Psilochenia occidentalis</i> (Nuttall) Nuttall subsp. <i>occidentalis</i>	Asteraceae	Forb		
<b>Not Assigned</b>	Crepis occidentalis ssp. <i>costata</i>	<i>Psilochenia occidentalis</i> (Nuttall) Nuttall subsp. <i>costata</i> (A. Gray) W. A. Weber	Asteraceae	Forb		
6	Crepis occidentalis ssp. <i>occidentalis</i>	<i>Psilochenia occidentalis</i> (Nuttall) Nuttall	Asteraceae	Forb		
6	Crepis runcinata ssp. <i>runcinata</i>	<i>Psilochenia runcinata</i> (James ex Torrey) Loeve & Loeve	Asteraceae	Forb	FAC	FACW
2	Croton texensis	<i>Croton texensis</i> (Klotsch) Muller-Argoviensis in De Candolle	Euphorbiaceae	Forb		
*	Crypsis alopecuroides	<i>Crypsis alopecuroides</i> (Piller & Mitterp) Schrader	Poaceae	Graminoid	NO	OBL
<b>Not Assigned</b>	Cryptantha ambigua	<i>Cryptantha ambigua</i> (A. Gray) Greene	Boraginaceae	Forb		
5	Cryptantha aperta	<i>Oreocarya aperta</i> Eastwood	Boraginaceae	Shrub		
6	Cryptantha bakeri	<i>Oreocarya bakeri</i> Greene	Boraginaceae	Forb		
<b>Not Assigned</b>	Cryptantha breviflora	<i>Oreocarya breviflora</i> Osterhout	Boraginaceae	Forb		
<b>Not Assigned</b>	Cryptantha caespitosa	<i>Oreocarya caespitosa</i> A. Nelson	Boraginaceae	Forb		
9	Cryptantha cana	<i>Oreocarya cana</i> A. Nelson	Boraginaceae	Forb		
6	Cryptantha celosioides	<i>Oreocarya celosioides</i> Eastwood	Boraginaceae	Forb		
6	Cryptantha cinerea var. <i>jamesii</i>	<i>Oreocarya suffruticosa</i> (Torrey) Greene	Boraginaceae	Forb		
8	Cryptantha cinerea var. <i>pustulosa</i>	<i>Oreocarya pustulosa</i> Rydberg	Boraginaceae	Forb		
<b>Not Assigned</b>	Cryptantha circumscissa	<i>Cryptantha circumscissa</i> (Hooker & Arnott) I. M. Johnston	Boraginaceae	Forb		
3	Cryptantha crassispala	<i>Cryptantha crassispala</i> (Torrey & Gray) Greene	Boraginaceae	Forb		
4	Cryptantha crassispala var. <i>crassispala</i>	<i>Cryptantha crassispala</i> (Torrey & Gray) Greene var. <i>crassispala</i>	Boraginaceae	Forb		
0	Cryptantha crassispala var. <i>elachantha</i>	<i>Cryptantha crassispala</i> (Torrey & Gray) Greene var. <i>elachantha</i> I.M. Johnston	Boraginaceae	Forb		
8	Cryptantha elata	<i>Oreocarya elata</i> Eastwood	Boraginaceae	Forb		
3	Cryptantha fendleri	<i>Cryptantha fendleri</i> (A. Gray) Greene	Boraginaceae	Forb		
7	Cryptantha flava	<i>Oreocarya flava</i> A. Nelson	Boraginaceae	Forb		
7	Cryptantha flavoculata	<i>Oreocarya flavoculata</i> A. Nelson	Boraginaceae	Forb		
6	Cryptantha fulvocanescens var. <i>nitida</i>	<i>Oreocarya nitida</i> Greene	Boraginaceae	Forb		
8	Cryptantha gracilis	<i>Cryptantha gracilis</i> Osterhout	Boraginaceae	Forb		

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6	<i>Cryptantha humilis</i>	<i>Oreocarya humilis</i> Greene subsp. <i>nana</i> (Eastwood) W. A. Weber	Boraginaceae	Forb		
7	<i>Cryptantha longiflora</i>	<i>Oreocarya longiflora</i> A. Nelson	Boraginaceae	Forb		
Not Assigned	<i>Cryptantha mensana</i>	<i>Oreocarya mensana</i> (Jones) Payson	Boraginaceae	Forb		
3	<i>Cryptantha minima</i>	<i>Cryptantha minima</i> Rydberg	Boraginaceae	Forb		
Not Assigned	<i>Cryptantha osterhoutii</i>	<i>Oreocarya osterhoutii</i> Payson	Boraginaceae	Forb		
8	<i>Cryptantha paradoxa</i>	<i>Oreocarya paradoxa</i> A. Nelson	Boraginaceae	Forb		
8	<i>Cryptantha pterocarya</i>	<i>Cryptantha pterocarya</i> (Torrey) Greene	Boraginaceae	Forb		
8	<i>Cryptantha recurvata</i>	<i>Cryptantha recurvata</i> Coville	Boraginaceae	Forb		
8	<i>Cryptantha rollinsii</i>	<i>Oreocarya rollinsii</i> (I. M. Johnston) W. A. Weber	Boraginaceae	Forb		
Not Assigned	<i>Cryptantha scoparia</i>	<i>Cryptantha scoparia</i> A. Nelson	Boraginaceae	Forb		
7	<i>Cryptantha sericea</i>	<i>Oreocarya sericea</i> (A. Gray) Greene	Boraginaceae	Forb		
Not Assigned	<i>Cryptantha stricta</i>	<i>Oreocarya stricta</i> Osterhout	Boraginaceae	Forb		
6	<i>Cryptantha thyrsiflora</i>	<i>Oreocarya thyrsiflora</i> Greene	Boraginaceae	Forb		
5	<i>Cryptantha virgata</i>	<i>Oreocarya virgata</i> (T. C. Porter) Greene	Boraginaceae	Forb		
Not Assigned	<i>Cryptantha watsonii</i>	<i>Cryptantha watsonii</i> (A. Gray) Greene	Boraginaceae	Forb		
Not Assigned	<i>Cryptantha weberi</i>	<i>Oreocarya weberi</i> (I. M. Johnston) W. A. Weber	Boraginaceae	Shrub		
8	<i>Cryptogramma acrostichoides</i>	<i>Cryptogramma acrostichoides</i> R. Brown in Richardson	Pteridaceae	Forb		
10	<i>Cryptogramma stelleri</i>	<i>Cryptogramma stelleri</i> (S. G. Gmelin) Prantl	Pteridaceae	Forb	NI	UPL
2	<i>Cucurbita foetidissima</i>	<i>Cucurbita foetidissima</i> Humboldt, Bonpland, & Kunth	Cucurbitaceae	Vine, Forb/herb		
*	<i>Cuscuta approximata</i>	<i>Cuscuta epithymum</i> (L.) L. subsp. <i>approximata</i> (Babington) Rouy	Cuscutaceae	Vine, Forb/herb		
Not Assigned	<i>Cuscuta californica</i> var. <i>breviflora</i>	<i>Grammica occidentalis</i> (Millspaugh) Hadac & Chrtk	Cuscutaceae	Vine, Forb/herb		
1	<i>Cuscuta cuspidata</i>	<i>Grammica cuspidata</i> (Engelmann) Hadac & Chrtk	Cuscutaceae	Vine, Forb/herb		
Not Assigned	<i>Cuscuta denticulata</i> var. <i>denticulata</i>	<i>Grammica denticulata</i> (Engelmann in Parry) W. A. Weber	Cuscutaceae	Vine, Forb/herb		
Not Assigned	<i>Cuscuta gronovii</i> var. <i>gronovii</i>	<i>Grammica umbrosa</i> (Hooker) W. A. Weber	Cuscutaceae	Vine, Forb/herb		
4	<i>Cuscuta indecora</i> var. <i>neuropetala</i>	<i>Grammica indecora</i> (Choisy) W. A. Weber var. <i>neuropetala</i> (Engelmann) W. A. Weber	Cuscutaceae	Vine, Forb/herb		
1	<i>Cuscuta pentagona</i> var. <i>pentagona</i>	<i>Grammica campestris</i> (Yuncker) Hadac & Chrtk	Cuscutaceae	Vine, Forb/herb		

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3	<i>Cuscuta umbellata</i>	<i>Grammica umbellata</i> (Humboldt, Bonpland, & Kunth) Hadac & Chrték	Cuscutaceae	Vine, Forb/herb		
0	<i>Cyclanthera dissecta</i>	<i>Cyclanthera dissecta</i> (Torrey & Gray) Arnott	Cucurbitaceae	Vine, Forb/herb		
2	<i>Cycloloma atriplicifolium</i>	<i>Cycloloma atriplicifolium</i> (Sprengel) Coulter	Chenopodiaceae	Forb	FAC	FACU
*	<i>Cymbalaria muralis</i>	<i>Cymbalaria muralis</i> P.G. Gaertn., B. Mey. & Scherb.	Scrophulariaceae	Forb		
6	<i>Cymopterus acaulis</i>	<i>Cymopterus acaulis</i> (Pursh) Rafinesque	Apiaceae	Forb		
Not Assigned	<i>Cymopterus acaulis</i> var. <i>fendleri</i>	<i>Cymopterus fendleri</i> A. Gray	Apiaceae	Forb		
5	<i>Cymopterus bulbosus</i>	<i>Cymopterus bulbosus</i> A. Nelson	Apiaceae	Forb		
Not Assigned	<i>Cymopterus duchesnensis</i>	<i>Cymopterus duchesnensis</i> Jones	Apiaceae	Forb		
6	<i>Cymopterus montanus</i>	<i>Cymopterus montanus</i> Torrey & Gray	Apiaceae	Forb		
6	<i>Cymopterus planosus</i>	<i>Cymopterus planosus</i> (Osterhout) Mathias	Apiaceae	Forb		
5	<i>Cymopterus purpurascens</i>	<i>Cymopterus purpurascens</i> (A. Gray) Jones	Apiaceae	Forb		
5	<i>Cymopterus purpureus</i>	<i>Cymopterus purpureus</i> S. Watson	Apiaceae	Forb		
*	<i>Cynodon dactylon</i>	<i>Cynodon dactylon</i> (L.) Persoon	Poaceae	Graminoid	FACU	FAC
*	<i>Cynoglossum officinale</i>	<i>Cynoglossum officinale</i> L.	Boraginaceae	Forb	NI	FACU
*	<i>Cynosurus cristatus</i>	<i>Cynosurus cristatus</i> L.	Poaceae	Graminoid	NI	NI
Not Assigned	<i>Cyperus acuminatus</i>	<i>Cyperus acuminatus</i> Torrey & Hooker	Cyperaceae	Graminoid	OBL	OBL
10	<i>Cyperus bipartitus</i>	<i>Cyperus rivularis</i> Kunth	Cyperaceae	Graminoid	FACW	NI
*	<i>Cyperus erythrorhizos</i>	<i>Cyperus erythrorhizos</i> Muhlenberg	Cyperaceae	Graminoid	OBL	OBL
*	<i>Cyperus esculentus</i>	<i>Cyperus esculentus</i> L.	Cyperaceae	Graminoid	FACW	FACW
7	<i>Cyperus fendlerianus</i>	<i>Mariscus fendlerianus</i> (Bockeler) Koyama	Cyperaceae	Graminoid	NI	FAC
4	<i>Cyperus lupulinus</i> ssp. <i>lupulinus</i>	<i>Mariscus filiculmis</i> (M. Vahl) Koyama	Cyperaceae	Graminoid	FACU	NI
*	<i>Cyperus odoratus</i>	<i>Cyperus odoratus</i> L.	Cyperaceae	Graminoid	FACW	NI
6	<i>Cyperus schweinitzii</i>	<i>Mariscus schweinitzii</i> (Torrey) Koyama	Cyperaceae	Graminoid	FACU	FACU
5	<i>Cyperus squarrosus</i>	<i>Cyperus aristatus</i> Rottboel	Cyperaceae	Graminoid	OBL	OBL
9	<i>Cypripedium fasciculatum</i>	<i>Cypripedium fasciculatum</i> Kellogg ex S. Watson	Orchidaceae	Forb	NI	FACU
9	<i>Cypripedium parviflorum</i>	<i>Cypripedium calceolus</i> L. subsp. <i>parviflorum</i> (Salisbury) Hultén	Orchidaceae	Forb	FACW	FACW
9	<i>Cystopteris fragilis</i>	<i>Cystopteris fragilis</i> (L.) Bernhardi	Dryopteridaceae	Forb	FACU	FACU
10	<i>Cystopteris montana</i>	<i>Cystopteris montana</i> (Lamarck) Bernhardi ex Desvaux	Dryopteridaceae	Forb	NO	FAC+
9	<i>Cystopteris reevesiana</i>	<i>Cystopteris reevesiana</i> Lellinger	Dryopteridaceae	Forb		

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9	<i>Cystopteris tenuis</i>	<i>Cystopteris tenuis</i> (Michaux) Desvaux	Dryopteridaceae	Forb		
9	<i>Cystopteris utahensis</i>	<i>Cystopteris utahensis</i> Windham & Haufler	Dryopteridaceae	Forb		
*	<i>Dactylis glomerata</i>	<i>Dactylis glomerata</i> L.	Poaceae	Graminoid	FACU	FACU
6	<i>Dalea aurea</i>	<i>Dalea aurea</i> Nuttall ex Pursh	Fabaceae	Forb		
7	<i>Dalea candida</i> var. <i>oligophylla</i>	<i>Dalea candida</i> Willdenow var. <i>oligophylla</i> (Torrey) Shinners	Fabaceae	Forb		
8	<i>Dalea cylindriceps</i>	<i>Dalea cylindriceps</i> Barneby	Fabaceae	Forb		
7	<i>Dalea enneandra</i>	<i>Dalea enneandra</i> Nuttall	Fabaceae	Forb		
10	<i>Dalea formosa</i>	<i>Dalea formosa</i> Torrey	Fabaceae	Shrub		
8	<i>Dalea jamesii</i>	<i>Dalea jamesii</i> (Torrey) Torrey & Gray	Fabaceae	Forb		
6	<i>Dalea lanata</i>	<i>Dalea lanata</i> Sprengel	Fabaceae	Forb		
9	<i>Dalea leporina</i>	<i>Dalea leporina</i> (Aiton) Bullock	Fabaceae	Forb	NI	NI
Not Assigned	<i>Dalea multiflora</i>	<i>Dalea multiflora</i> (Nuttall) Shinners	Fabaceae	Forb		
6	<i>Dalea nana</i> var. <i>nana</i>	<i>Dalea nana</i> Torrey var. <i>nana</i>	Fabaceae	Forb		
5	<i>Dalea purpurea</i>	<i>Dalea purpurea</i> Ventenat	Fabaceae	Forb		
8	<i>Dalea tenuifolia</i>	<i>Dalea tenuifolia</i> (A. Gray) Shinners	Fabaceae	Forb		
7	<i>Dalea villosa</i>	<i>Dalea villosa</i> Sprengel	Fabaceae	Forb		
7	<i>Danthonia californica</i>	<i>Danthonia californica</i> Bolander	Poaceae	Graminoid	NI	FAC-
8	<i>Danthonia intermedia</i>	<i>Danthonia intermedia</i> Vasey	Poaceae	Graminoid	NI	FACU
8	<i>Danthonia parryi</i>	<i>Danthonia parryi</i> Scribnier	Poaceae	Graminoid		
7	<i>Danthonia spicata</i>	<i>Danthonia spicata</i> (L.) P. Beauvois ex Roemer & Schultes var. <i>pinetorum</i> Piper	Poaceae	Graminoid		
9	<i>Danthonia unispicata</i>	<i>Danthonia unispicata</i> (Thurber) Munro	Poaceae	Graminoid		
4	<i>Dasiphora floribunda</i>	<i>Pentaphylloides floribunda</i> (Pursh) Loeve	Rosaceae	Shrub		FACW*
6	<i>Dasyochloa pulchella</i>	<i>Dasyochloa pulchella</i> (Humboldt, Bonpland, & Kunth) Willdenow ex Rydberg	Poaceae	Graminoid		
*	<i>Datura stramonium</i>	<i>Datura stramonium</i> L.	Solanaceae	Forb		
3	<i>Datura wrightii</i>	<i>Datura wrightii</i> Regel	Solanaceae	Forb		
*	<i>Daucus carota</i>	<i>Daucus carota</i> L.	Apiaceae	Forb		
5	<i>Delphinium ×occidentale</i>	<i>Delphinium occidentale</i> (S. Watson) S. Watson	Ranunculaceae	Forb		FACU
		<i>Delphinium occidentale</i> (S. Watson) S. Watson subsp. <i>cucullatum</i> (A. Nelson) Ewan	Ranunculaceae	Forb		FACU

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		Delphinium occidentale (S. Watson) S. Watson subsp. occidentale	Ranunculaceae	Forb		FACU
		Delphinium occidentale (S. Watson) S. Watson subsp. quercicola Ewan	Ranunculaceae	Forb		FACU
6	Delphinium alpestre	Delphinium ramosum Rydberg var. alpestre (Rydberg) W. A. Weber	Ranunculaceae	Forb		
7	Delphinium barbeyi	Delphinium barbeyi (Huth) Huth	Ranunculaceae	Forb	NI	FAC
5	Delphinium carolinianum ssp. virescens	Delphinium carolinianum Walter subsp. virescens (Nuttall) M. C. Johnston	Ranunculaceae	Forb		
5	Delphinium geyeri	Delphinium geyeri Greene	Ranunculaceae	Forb		
6	Delphinium nuttallianum	Delphinium nuttallianum Pritzel ex Walpers	Ranunculaceae	Forb		
5	Delphinium ramosum	Delphinium ramosum Rydberg	Ranunculaceae	Forb		
		Delphinium ramosum Rydberg var. ramosum	Ranunculaceae	Forb		
6	Delphinium robustum	Delphinium robustum Rydberg	Ranunculaceae	Forb		
6	Delphinium scaposum	Delphinium andersonii A. Gray var. scaposum (Greene) Welsh	Ranunculaceae	Forb		
4	Delphinium wootonii	Delphinium wootonii Rydberg	Ranunculaceae	Forb		
4	Deschampsia caespitosa	Deschampsia cespitosa (L.) P. Beauvois	Poaceae	Graminoid		FACW
		Deschampsia cespitosa (L.) P. Beauvois subsp. alpicola (Rydberg) Loeve et al.	Poaceae	Graminoid		FACW
		Deschampsia cespitosa (L.) P. Beauvois subsp. cespitosa	Poaceae	Graminoid		FACW
3	Descurainia californica	Descurainia californica (A. Gray) O. E. Schulz	Brassicaceae	Forb	NI	UPL
2	Descurainia incana	Descurainia incana (Bernhardi ex Fischer & Meyer) Dorn	Brassicaceae	Forb		
2	Descurainia incana ssp. incisa	Descurainia incisa (Engelmann ex Gray) Britton	Brassicaceae	Forb		
		Descurainia incisa (Engelmann ex Gray) Britton subsp. incisa	Brassicaceae	Forb		
		Descurainia incisa (Engelmann ex Gray) Britton subsp. viscosa (Rydberg) Rollins	Brassicaceae	Forb		
2	Descurainia pinnata	Descurainia pinnata (Walter) Britton	Brassicaceae	Forb		
2	Descurainia pinnata ssp. filipes	Descurainia incisa (Engelmann ex Gray) Britton subsp. filipes (Gray) Rollins	Brassicaceae	Forb		

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2	<i>Descurainia ramosissima</i>	<i>Descurainia ramosissima</i> Rollins	Brassicaceae	Forb		
*	<i>Descurainia sophia</i>	<i>Descurainia sophia</i> (L.) Webb ex Prantl	Brassicaceae	Forb		
9	<i>Desmanthus cooleyi</i>	<i>Desmanthus cooleyi</i> (A. Eaton) Trelease	Fabaceae	Forb		
6	<i>Desmanthus illinoensis</i>	<i>Desmanthus illinoensis</i> (Michaux) MacMillan ex Robinson & Fernald	Fabaceae	Forb	FACU	FACU
<b>Not Assigned</b>	<i>Desmodium obtusum</i>	<i>Desmodium rigidum</i> (Elliott) De Candolle	Fabaceae	Forb		
*	<i>Dianthus armeria</i>	<i>Dianthus armeria</i> L.	Caryophyllaceae	Forb	NI	NI
*	<i>Dianthus deltoides</i>	<i>Dianthus deltoides</i> L.	Caryophyllaceae	Forb	NI	NI
9	<i>Dicentra uniflora</i>	<i>Dicentra uniflora</i> Kellogg	Fumariaceae	Forb		
8	<i>Dichanthelium acuminatum</i>	<i>Dichanthelium acuminatum</i> (Swartz) Gould & Clark	Poaceae	Graminoid	FAC	FACW
		<i>Dichanthelium acuminatum</i> (Swartz) Gould & Clark var. <i>acuminatum</i>	Poaceae	Graminoid	FAC	FACW
<b>Not Assigned</b>	<i>Dichanthelium acuminatum</i> var. <i>sericeum</i>	<i>Dichanthelium acuminatum</i> (Swartz) Gould & Clark var. <i>sericeum</i> (Schmoll) Freckmann	Poaceae	Graminoid	FAC	FACW
7	<i>Dichanthelium linearifolium</i>	<i>Dichanthelium linearifolium</i> (Scribnier) Gould	Poaceae	Graminoid		
6	<i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i>	<i>Dichanthelium oligosanthes</i> (Schultes) Gould var. <i>scribnerianum</i> (Nash) Gould	Poaceae	Graminoid	FACU	FAC
<b>Not Assigned</b>	<i>Dichanthelium wilcoxianum</i>	<i>Dichanthelium wilcoxianum</i> (Vasey) Freckmann	Poaceae	Graminoid		
<b>Not Assigned</b>	<i>Dicoria canescens</i> ssp. <i>brandegeei</i>	<i>Dicoria brandegeei</i> A. Gray	Asteraceae	Forb		
*	<i>Digitalis purpurea</i>	<i>Digitalis purpurea</i> L.	Scrophulariaceae	Forb	NI	NI
9	<i>Digitaria californica</i>	<i>Digitaria californica</i> (Bentham) Henrard	Poaceae	Graminoid		
*	<i>Digitaria ischaemum</i>	<i>Digitaria ischaemum</i> (Schreber) Schreber ex Mühlenberg	Poaceae	Graminoid	UPL	FACU
*	<i>Digitaria sanguinalis</i>	<i>Digitaria sanguinalis</i> (L.) Scopoli	Poaceae	Graminoid	FACU	FACU
*	<i>Dimorphocarpa wislizeni</i>	<i>Dimorphocarpa wislizeni</i> (Engelmann) Rollins	Brassicaceae	Forb		
*	<i>Diplotaxis muralis</i>	<i>Diplotaxis muralis</i> (L.) A. De Candolle	Brassicaceae	Forb		
*	<i>Dipsacus fullonum</i>	<i>Dipsacus fullonum</i> L.	Dipsacaceae	Forb	NI	NI
*	<i>Dipsacus laciniatus</i>	<i>Dipsacus laciniatus</i> L.	Dipsacaceae	Forb		
8	<i>Disporum trachycarpum</i>	<i>Prosartes trachycarpa</i> S. Watson	Liliaceae	Forb	NI	NI
4	<i>Distichlis spicata</i>	<i>Distichlis stricta</i> (Torrey) Rydberg	Poaceae	Graminoid	NI	FAC+*
8	<i>Dodecatheon pulchellum</i>	<i>Dodecatheon pulchellum</i> (Rafinesque) Merrill	Primulaceae	Forb	FAC	FACW
<b>Not Assigned</b>	<i>Draba albertina</i>	<i>Draba albertina</i> Greene	Brassicaceae	Forb	NI	NI

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7	<i>Draba aurea</i>	<i>Draba aurea</i> M. Vahl ex Hornemann	Brassicaceae	Forb	NI	UPL
9	<i>Draba borealis</i>	<i>Draba borealis</i> De Candolle	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba breweri</i> var. <i>cana</i>	<i>Draba breweri</i> Watson var. <i>cana</i> (Rydberg) Rollins	Brassicaceae	Forb		
10	<i>Draba crassa</i>	<i>Draba crassa</i> Rydberg	Brassicaceae	Forb		
7	<i>Draba crassifolia</i>	<i>Draba crassifolia</i> R. Graham	Brassicaceae	Forb		
5	<i>Draba cuneifolia</i>	<i>Draba cuneifolia</i> Nuttall ex Torrey & Gray	Brassicaceae	Forb		
9	<i>Draba exunguiculata</i>	<i>Draba exunguiculata</i> (O. E. Schulz) C. L. Hitchcock	Brassicaceae	Forb		
10	<i>Draba fladnizensis</i>	<i>Draba fladnizensis</i> Wulfen	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba globosa</i>	<i>Draba globosa</i> Payson	Brassicaceae	Forb		
9	<i>Draba graminea</i>	<i>Draba graminea</i> Greene	Brassicaceae	Forb		
9	<i>Draba grayana</i>	<i>Draba grayana</i> (Rydberg) C. L. Hitchcock	Brassicaceae	Forb		
9	<i>Draba helleriana</i>	<i>Draba helleriana</i> Greene	Brassicaceae	Forb	NI	FAC
<b>Not Assigned</b>	<i>Draba incerta</i>	<i>Draba incerta</i> Payson	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba lonchocarpa</i>	<i>Draba lonchocarpa</i> Rydberg	Brassicaceae	Forb		
*	<i>Draba nemorosa</i>	<i>Draba nemorosa</i> L.	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba oligosperma</i>	<i>Draba oligosperma</i> Hooker	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba porsildii</i>	<i>Draba porsildii</i> Mulligan	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba rectifructa</i>	<i>Draba rectifructa</i> C. L. Hitchcock	Brassicaceae	Forb		
4	<i>Draba reptans</i>	<i>Draba reptans</i> (Lamarck) Fernald	Brassicaceae	Forb		
9	<i>Draba smithii</i>	<i>Draba smithii</i> Gilg ex O. E. Schulz	Brassicaceae	Forb		
8	<i>Draba spectabilis</i>	<i>Draba spectabilis</i> Greene	Brassicaceae	Forb	NI	FACU-
10	<i>Draba streptobrachia</i>	<i>Draba streptobrachia</i> Price	Brassicaceae	Forb		
8	<i>Draba streptocarpa</i>	<i>Draba streptocarpa</i> A. Gray	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Draba ventosa</i>	<i>Draba ventosa</i> A. Gray	Brassicaceae	Forb		
6	<i>Draba weberi</i>	<i>Draba weberi</i> Price & Rollins	Brassicaceae	Forb		
3	<i>Dracocephalum parviflorum</i>	<i>Dracocephalum parviflorum</i> Nuttall	Lamiaceae	Forb	FACU	FACU
10	<i>Drosera rotundifolia</i>	<i>Drosera rotundifolia</i> L.	Droseraceae	Forb	NO	OBL
9	<i>Dryas octopetala</i> ssp. <i>hookeriana</i>	<i>Dryas octopetala</i> L. subsp. <i>hookeriana</i> (Juzepczuk) Hulten	Rosaceae	Forb		
*	<i>Drymaria effusa</i> var. <i>depressa</i>	<i>Drymaria effusa</i> A. Gray var. <i>depressa</i> (Greene) Duke	Caryophyllaceae	Forb		

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10	Dryopteris expansa	Dryopteris expansa (K. Presl) Fraser-Jenkins & Jermy	Dryopteridaceae	Forb	FACW	NI
9	Dryopteris filix-mas	Dryopteris filix-mas (L.) Schott	Dryopteridaceae	Forb		
2	Dyssodia papposa	Dyssodia papposa (Ventenat) A. S. Hitchcock	Asteraceae	Forb		
8	Echinacea angustifolia	Echinacea angustifolia De Candolle	Asteraceae	Forb		
*	Echinacea purpurea	Echinacea purpurea	Asteraceae	Forb		
Not Assigned	Echinocereus coccineus var. coccineus	Echinocereus triglochidiatus Engelmann var. melanacanthus (Engelmann) L. Benson	Cactaceae	Shrub		
Not Assigned	Echinocereus fendleri	Echinocereus fendleri (Engelmann) Rumpler	Cactaceae	Shrub		
9	Echinocereus reichenbachii var. perbellus	Echinocereus reichenbachii (Terschek) Haage var. perbellus (Britton & Rose) L. Benson	Cactaceae	Shrub		
7	Echinocereus triglochidiatus	Echinocereus triglochidiatus Engelmann	Cactaceae	Shrub		
5	Echinocereus triglochidiatus var. triglochidiatus	Echinocereus triglochidiatus Engelmann var. gonacanthus (Engelmann & Bigelow) Boissevain & Davidson	Cactaceae	Shrub		
		Echinocereus triglochidiatus Engelmann var. triglochidiatus	Cactaceae	Shrub		
6	Echinocereus viridiflorus	Echinocereus viridiflorus Engelmann	Cactaceae	Shrub		
*	Echinochloa crus-galli	Echinochloa crus-galli (L.) P. Beauvois	Poaceae	Graminoid	FACW	FACW
3	Echinocystis lobata	Echinocystis lobata (Michaux) Torrey & Gray	Cucurbitaceae	Vine, Forb/herb	FAC	FAC
*	Echinops sphaerocephalus	Echinops sphaerocephalus L.	Asteraceae	Forb		
*	Echium vulgare	Echium vulgare L.	Boraginaceae	Forb		
*	Elaeagnus angustifolia	Elaeagnus angustifolia L.	Elaeagnaceae	Shrub	FAC	FAC
*	Elaeagnus commutata	Elaeagnus commutata Bernhardi	Elaeagnaceae	Shrub		NI
*	Elatine rubella	Elatine triandra Schkuhr	Elatinaceae	Forb	OBL	OBL
5	Eleocharis acicularis	Eleocharis acicularis (L.) Roemer & Schultes	Cyperaceae	Graminoid	OBL	OBL
Not Assigned	Eleocharis atropurpurea	Eleocharis atropurpurea (Retzius) K. Presl	Cyperaceae	Graminoid	FACW	FACW+
7	Eleocharis bolanderi	Eleocharis bolanderi A. Gray	Cyperaceae	Graminoid	NO	FACW
7	Eleocharis compressa	Eleocharis elliptica Kunth var. compressa (Sullivant) Drapalik & Mohlenbrock	Cyperaceae	Graminoid	FACW	NI
4	Eleocharis engelmannii	Eleocharis obtusa (Willdenow) Schultes var. detonsa (A. Gray) Drapalik & Mohlenbrock	Cyperaceae	Graminoid	OBL	FACW
Not Assigned	Eleocharis montevideensis	Eleocharis montevideensis Kunth	Cyperaceae	Graminoid	FACW	NI

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<b>Not Assigned</b>	<i>Eleocharis obtusa</i>	<i>Eleocharis obtusa</i> (Willdenow) Schultes	Cyperaceae	Graminoid	OBL	OBL
		<i>Eleocharis obtusa</i> (Willdenow) Schultes var. <i>obtusa</i>	Cyperaceae	Graminoid	OBL	OBL
<b>3</b>	<i>Eleocharis palustris</i>	<i>Eleocharis palustris</i> (L.) Roemer & Schultes	Cyperaceae	Graminoid	OBL	OBL
		<i>Eleocharis xyridiformis</i> (Fernald) Brackett	Cyperaceae	Graminoid	OBL	OBL
<b>4</b>	<i>Eleocharis parvula</i>	<i>Eleocharis parvula</i> (Roemer & Schultes) Link var. <i>anachaeta</i> (Torrey) Svenson	Cyperaceae	Graminoid	OBL	OBL
<b>8</b>	<i>Eleocharis quinqueflora</i>	<i>Eleocharis quinqueflora</i> (F. X. Hartman) Schwartz	Cyperaceae	Graminoid	OBL	OBL
<b>6</b>	<i>Eleocharis rostellata</i>	<i>Eleocharis rostellata</i> Torrey	Cyperaceae	Graminoid	OBL	OBL
<b>10</b>	<i>Eleocharis wolfii</i>	<i>Eleocharis wolfii</i> A. Gray	Cyperaceae	Graminoid	OBL	NO
*	<i>Eleusine indica</i>	<i>Eleusine indica</i> (L.) Gaertner	Poaceae	Graminoid	FACU	FACU
<b>3</b>	<i>Ellisia nyctelea</i>	<i>Ellisia nyctelea</i> (L.) L.	Hydrophyllaceae	Forb	FAC	FACU
<b>Not Assigned</b>	<i>Elodea bifoliata</i>	<i>Elodea bifoliata</i> St. John	Hydrocharitaceae	Forb	NI	NI
		<i>Elodea longivaginata</i> St. John	Hydrocharitaceae	Forb	NI	OBL
<b>3</b>	<i>Elodea canadensis</i>	<i>Elodea canadensis</i> Richardson in Michaux	Hydrocharitaceae	Forb	OBL	OBL
<b>Not Assigned</b>	<i>Elodea nuttallii</i>	<i>Elodea nuttallii</i> (Planchon) St. John	Hydrocharitaceae	Forb	OBL	OBL
<b>Not Assigned</b>	<i>Elyhordeum macounii</i>	<i>Elymus macounii</i> Vasey	Poaceae	Graminoid		FAC
<b>4</b>	<i>Elymus ×saundersii</i>	<i>Elymus saundersii</i> Vasey	Poaceae	Graminoid		
<b>Not Assigned</b>	<i>Elymus bakeri</i>	<i>Elymus trachycaulus</i> (Link) Gould ex Shinners subsp. <i>bakeri</i> (E. Nelson) Loeve	Poaceae	Graminoid		
<b>4</b>	<i>Elymus canadensis</i>	<i>Elymus canadensis</i> L.	Poaceae	Graminoid	FACU	FACU
<b>4</b>	<i>Elymus elymoides</i>	<i>Elymus elymoides</i> (Rafinesque) Swezey	Poaceae	Graminoid	FACU	UPL
<b>Not Assigned</b>	<i>Elymus elymoides</i> ssp. <i>brevifolius</i>	<i>Elymus longifolius</i> (J. G. Smith) Gould	Poaceae	Graminoid		
<b>7</b>	<i>Elymus glaucus</i>	<i>Elymus glaucus</i> Buckley	Poaceae	Graminoid	NI	FACU
<b>4</b>	<i>Elymus lanceolatus</i>	<i>Elymus lanceolatus</i> (Scribnier & Smith) Gould	Poaceae	Graminoid	FAC	UPL
<b>Not Assigned</b>	<i>Elymus multisetus</i>	<i>Elymus multisetus</i> (J. G. Smith) Davy	Poaceae	Graminoid		
*	<i>Elymus repens</i>	<i>Elytrigia repens</i> (L.) Nevski	Poaceae	Graminoid	FAC	FACU
<b>7</b>	<i>Elymus scribneri</i>	<i>Elymus scribneri</i> (Vasey) Jones	Poaceae	Graminoid		
<b>4</b>	<i>Elymus trachycaulus</i>	<i>Elymus trachycaulus</i> (Link) Gould ex Shinners	Poaceae	Graminoid		
<b>2</b>	<i>Elymus trachycaulus</i> ssp. <i>subsecundus</i>	<i>Elymus trachycaulus</i> (Link) Gould ex Shinners subsp. <i>subsecundus</i> (Link) Loeve & Loeve	Poaceae	Graminoid		
<b>3</b>	<i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>	<i>Elymus trachycaulus</i> (Link) Gould ex Shinners subsp. <i>andinus</i> (Scribnier & Smith) Loeve & Loeve	Poaceae	Graminoid	FAC	FACU

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		<i>Elymus trachycaulus</i> (Link) Gould ex Shinners subsp. <i>trachycaulus</i>	Poaceae	Graminoid	FACU	FACU
5	<i>Elymus virginicus</i>	<i>Elymus virginicus</i> L.	Poaceae	Graminoid	FAC	FACW
7	<i>Enceliopsis nudicaulis</i>	<i>Enceliopsis nudicaulis</i> (A. Gray) A. Nelson	Asteraceae	Forb	NO	NI
7	<i>Enceliopsis nutans</i>	<i>Enceliopsis nutans</i> (Eastwood) A. Nelson	Asteraceae	Forb		
Not Assigned	<i>Endolepis dioica</i>	<i>Atriplex suckleyi</i> (Torrey) Rydberg	Chenopodiaceae	Forb		
3	<i>Engelmannia peristenia</i>	<i>Engelmannia peristenia</i> (Rafinesque) Goodman & Lawson	Asteraceae	Forb		
Not Assigned	<i>Enneapogon desvauxii</i>	<i>Enneapogon desvauxii</i> P. Beauvois	Poaceae	Graminoid		
Not Assigned	<i>Ephedra cutleri</i>	<i>Ephedra viridis</i> Coville var. <i>viscida</i> (Cutler) L. Benson	Ephedraceae	Shrub		
6	<i>Ephedra torreyana</i>	<i>Ephedra torreyana</i> S. Watson	Ephedraceae	Shrub		
6	<i>Ephedra viridis</i>	<i>Ephedra viridis</i> Coville	Ephedraceae	Shrub		
6		<i>Ephedra viridis</i> Coville var. <i>viridis</i>	Ephedraceae	Shrub		
6	<i>Epilobium anagallidifolium</i>	<i>Epilobium anagallidifolium</i> Lamarck	Onagraceae	Forb	NI	FACW
2	<i>Epilobium brachycarpum</i>	<i>Epilobium brachycarpum</i> K. Presl	Onagraceae	Forb	NI	UPL
4	<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	<i>Epilobium brevistylum</i> Barbey	Onagraceae	Forb	OBL	FAC
		<i>Epilobium leptocarpum</i> Haussknecht var. <i>macounii</i> Trelease	Onagraceae	Forb		NI
4	<i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>	<i>Epilobium ciliatum</i> Rafinesque subsp. <i>glandulosum</i> (Lehmann) Hoch & Raven	Onagraceae	Forb	OBL	FAC
10	<i>Epilobium clavatum</i>	<i>Epilobium clavatum</i> Trelease	Onagraceae	Forb	NI	FACU
8	<i>Epilobium halleanum</i>	<i>Epilobium halleanum</i> Haussknecht	Onagraceae	Forb	NI	FAC+
6	<i>Epilobium hornemannii</i>	<i>Epilobium hornemannii</i> Reichenbach	Onagraceae	Forb	FACW	FACW+
7	<i>Epilobium lactiflorum</i>	<i>Epilobium lactiflorum</i> Haussknecht	Onagraceae	Forb	NI	FACW
8	<i>Epilobium leptophyllum</i>	<i>Epilobium leptophyllum</i> Rafinesque	Onagraceae	Forb	FACW+	OBL
Not Assigned	<i>Epilobium palustre</i>	<i>Epilobium palustre</i> L. var. <i>grammadophyllum</i> Haussknecht	Onagraceae	Forb	OBL	OBL
6	<i>Epilobium saximontanum</i>	<i>Epilobium saximontanum</i> Haussknecht	Onagraceae	Forb	FACW	FAC
9	<i>Epipactis gigantea</i>	<i>Epipactis gigantea</i> Douglas ex Hooker	Orchidaceae	Forb	NI	OBL
*	<i>Epipactis helleborine</i>	<i>Epipactis helleborine</i> (L.) Crantz	Orchidaceae	Forb	NI	NI
4	<i>Equisetum arvense</i>	<i>Equisetum arvense</i> L.	Equisetaceae	Forb	FAC	FAC+
4	<i>Equisetum hyemale</i> var. <i>affine</i>	<i>Hippochaete hyemalis</i> (L.) Bruhin	Equisetaceae	Forb	FACW	FACW

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4	<i>Equisetum laevigatum</i>	<i>Hippochaete laevigata</i> (A. Braun) Farwell	Equisetaceae	Forb	FACW	FACW
6	<i>Equisetum pratense</i>	<i>Equisetum pratense</i> Ehrhart (annotated to <i>E. arvense</i> )	Equisetaceae	Forb	NI	NI
5	<i>Equisetum variegatum</i> var. <i>variegatum</i>	<i>Hippochaete variegata</i> (Schleicher) Bruhin	Equisetaceae	Forb	FACW	FACW+
*	<i>Eragrostis barrelieri</i>	<i>Eragrostis barrelieri</i> Daveau in Morot	Poaceae	Graminoid		
*	<i>Eragrostis ciliaris</i>	<i>Eragrostis ciliaris</i> (Allioni) F. T. Hubbard	Poaceae	Graminoid	FACU	FACU
Not Assigned	<i>Eragrostis curtipedicellata</i>	<i>Eragrostis curtipedicellata</i> Buckley	Poaceae	Graminoid		
*	<i>Eragrostis curvula</i>	<i>Eragrostis curvula</i> (Schrader) Nees	Poaceae	Graminoid		
*	<i>Eragrostis hypnoides</i>	<i>Eragrostis hypnoides</i> (Lamarck) Britton, Sterns, & Poggenberg	Poaceae	Graminoid	FAC	OBL
Not Assigned	<i>Eragrostis lutescens</i>	<i>Eragrostis lutescens</i> Scribnier	Poaceae	Graminoid	NI	NI
Not Assigned	<i>Eragrostis mexicana</i> ssp. <i>virescens</i>	<i>Eragrostis mexicana</i> (Hornemann) Link subsp. <i>virescens</i> (J. Presl in K. Presl) Koch & Sanchez	Poaceae	Graminoid		
*	<i>Eragrostis minor</i>	<i>Eragrostis minor</i> Host	Poaceae	Graminoid		
1	<i>Eragrostis pectinacea</i>	<i>Eragrostis pectinacea</i> (Michaux) Nees	Poaceae	Graminoid	FAC	FACU
Not Assigned	<i>Eragrostis pectinacea</i> var. <i>pectinacea</i>	<i>Eragrostis diffusa</i> Buckley	Poaceae	Graminoid		
*	<i>Eragrostis pilosa</i>	<i>Eragrostis pilosa</i> (L.) P. Beauvois	Poaceae	Graminoid	FACU	FACU
8	<i>Eragrostis secundiflora</i> ssp. <i>oxylepis</i>	<i>Eragrostis secundiflora</i> J. Presl in K. Presl subsp. <i>oxylepis</i> (Torrey) S. D. Koch	Poaceae	Graminoid	FACU-	
3	<i>Eragrostis spectabilis</i>	<i>Eragrostis spectabilis</i> (Pursh) Steudel	Poaceae	Graminoid	FACU	NI
*	<i>Eragrostis trichodes</i>	<i>Eragrostis trichodes</i> (Nuttall) Wood	Poaceae	Graminoid		
*	<i>Eremopyrum triticeum</i>	<i>Eremopyrum triticeum</i> (Gaertner) Nevski	Poaceae	Graminoid		
*	<i>Eriastrum diffusum</i>	<i>Eriastrum diffusum</i> (A. Gray) Mason	Polemoniaceae	Forb		
Not Assigned	<i>Ericameria discoidea</i>	<i>Ericameria discoidea</i> (Nuttall) Nesom	Asteraceae	Shrub		
3	<i>Ericameria nauseosa</i> ssp. <i>consimilis</i> var. <i>leiosperma</i>	<i>Chrysanthemus nauseosus</i> (Pallas ex Pursh) Britton subsp. <i>leiospermus</i> (A. Gray) Hall & Clements	Asteraceae	Shrub		
3	<i>Ericameria nauseosa</i> ssp. <i>consimilis</i> var. <i>oreophila</i>	<i>Chrysanthemus nauseosus</i> (Pallas ex Pursh) Britton subsp. <i>consimilis</i> (Greene) Hall & Clements	Asteraceae	Shrub		
3	<i>Ericameria nauseosa</i> ssp. <i>nauseosa</i> var. <i>bigelowii</i>	<i>Chrysanthemus nauseosus</i> (Pallas ex Pursh) Britton subsp. <i>bigelowii</i> (A. Gray) Hall & Clements	Asteraceae	Shrub		

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3	Ericameria nauseosa ssp. nauseosa var. glabrata	Chrysanthemus nauseosus (Pallas ex Pursh) Britton subsp. graveolens (Nuttall) Piper	Asteraceae	Shrub		
*	Ericameria nauseosa ssp. nauseosa var. hololeuca	Chrysanthemus nauseosus (Pallas) Britton subsp. hololeucus (Gray) Hall & Clements	Asteraceae	Shrub		
3	Ericameria nauseosa ssp. nauseosa var. nauseosa	Chrysanthemus nauseosus (Pallas ex Pursh) Britton	Asteraceae	Shrub		
		Chrysanthemus nauseosus (Pallas ex Pursh) Britton subsp. nauseosus	Asteraceae	Shrub		
3	Ericameria parryi var. affinis	Chrysanthemus parryi (A. Gray) Greene subsp. affinis (A. Nelson) L. C. Anderson	Asteraceae	Shrub		
2	Ericameria parryi var. attenuata	Chrysanthemus parryi (A. Gray) Greene subsp. attenuatus (Jones) Hall & Clements	Asteraceae	Shrub		
4	Ericameria parryi var. howardii	Chrysanthemus parryi (A. Gray) Greene subsp. howardii (Parry ex A. Gray) Hall & Clements	Asteraceae	Shrub		
4	Ericameria parryi var. parryi	Chrysanthemus parryi (A. Gray) Greene	Asteraceae	Shrub		
		Chrysanthemus parryi (A. Gray) Greene subsp. parryi	Asteraceae	Shrub		
Not Assigned	Erigeron acris ssp. politus	Trimorpha elongata (Ledebour) Vierhapper	Asteraceae	Forb		FACU
Not Assigned	Erigeron aphanactis	Erigeron aphanactis (A. Gray) Greene	Asteraceae	Forb		
4	Erigeron bellidiastrum	Erigeron bellidiastrum Nuttall	Asteraceae	Forb		
9	Erigeron caespitosus	Erigeron caespitosus Nuttall	Asteraceae	Forb		
6	Erigeron canus	Erigeron canus A. Gray	Asteraceae	Forb		
6	Erigeron colomexicanus	Erigeron colo-mexicanus A. Nelson	Asteraceae	Forb		
6	Erigeron compositus	Erigeron compositus Pursh	Asteraceae	Forb		
6	Erigeron concinnus	Erigeron concinnus (Hooker & Arnott) Torrey & Gray	Asteraceae	Forb		
5	Erigeron concinnus var. concinnus	Erigeron pumilus Nuttall var. concinnooides Cronquist	Asteraceae	Forb		
Not Assigned	Erigeron consimilis	Erigeron consimilis Cronquist	Asteraceae	Forb		
8	Erigeron coulteri	Erigeron coulteri T. C. Porter	Asteraceae	Forb	NI	FACW
4	Erigeron divergens	Erigeron divergens Torrey & Gray	Asteraceae	Forb		
7	Erigeron eatonii var. eatonii	Erigeron eatonii A. Gray var. eatonii	Asteraceae	Forb		
7	Erigeron elatior	Erigeron elatior (A. Gray) Greene	Asteraceae	Forb	NI	FAC

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6	<i>Erigeron engelmannii</i>	<i>Erigeron engelmannii</i> A. Nelson	Asteraceae	Forb		
7	<i>Erigeron eximius</i>	<i>Erigeron eximius</i> Greene	Asteraceae	Forb		
3	<i>Erigeron flagellaris</i>	<i>Erigeron flagellaris</i> A. Gray	Asteraceae	Forb	FAC	FACU
		<i>Erigeron flagellaris</i> A. Gray fma <i>breviligulatus</i> W. A. Weber	Asteraceae	Forb	FAC	FACU
6	<i>Erigeron formosissimus</i>	<i>Erigeron formosissimus</i> Greene	Asteraceae	Forb	NI	FACU
		<i>Erigeron formosissimus</i> Greene var. <i>formosissimus</i>	Asteraceae	Forb	NI	FACU
Not Assigned	<i>Erigeron formosissimus</i> var. <i>viscidus</i>	<i>Erigeron formosissimus</i> Greene var. <i>viscidus</i> (Rydberg) Cronquist	Asteraceae	Forb		FACU
6	<i>Erigeron glabellus</i>	<i>Erigeron glabellus</i> Nuttall	Asteraceae	Forb		
Not Assigned	<i>Erigeron grandiflorus</i>	<i>Erigeron grandiflorus</i> Hooker	Asteraceae	Forb		
Not Assigned	<i>Erigeron humilis</i>	<i>Erigeron humilis</i> R. Graham	Asteraceae	Forb	NO	UPL
10	<i>Erigeron kachinensis</i>	<i>Erigeron kachinensis</i> Welsh & Moore	Asteraceae	Forb	NO	OBL
Not Assigned	<i>Erigeron lanatus</i>	<i>Erigeron lanatus</i> Hooker	Asteraceae	Forb	NO	FACU
9	<i>Erigeron leiomerus</i>	<i>Erigeron leiomerus</i> A. Gray	Asteraceae	Forb		
5	<i>Erigeron lonchophyllum</i>	<i>Trimorpha lonchophylla</i> (Hooker) Nesom	Asteraceae	Forb		FACW
8	<i>Erigeron melanocephalus</i>	<i>Erigeron melanocephalus</i> A. Nelson	Asteraceae	Forb	NI	FAC
Not Assigned	<i>Erigeron nematophyllum</i>	<i>Erigeron nematophyllum</i> Rydberg	Asteraceae	Forb		
7	<i>Erigeron peregrinus</i> ssp. <i>callianthemus</i>	<i>Erigeron peregrinus</i> (Banks ex Pursh) Greene subsp. <i>callianthemus</i> (Greene) Cronquist	Asteraceae	Forb		FACW
9	<i>Erigeron philadelphicus</i>	<i>Erigeron philadelphicus</i> L.	Asteraceae	Forb	FAC	OBL
8	<i>Erigeron pinnatisectus</i>	<i>Erigeron pinnatisectus</i> (A. Gray) A. Nelson	Asteraceae	Forb		
Not Assigned	<i>Erigeron pulcherrimus</i>	<i>Erigeron pulcherrimus</i> Heller	Asteraceae	Forb		
5	<i>Erigeron pumilus</i>	<i>Erigeron pumilus</i> Nuttall	Asteraceae	Forb		
5	<i>Erigeron pumilus</i> ssp. <i>pumilus</i>	<i>Erigeron pumilus</i> Nuttall var. <i>pumilus</i>	Asteraceae	Forb		
9	<i>Erigeron simplex</i>	<i>Erigeron simplex</i> Greene	Asteraceae	Forb		
5	<i>Erigeron speciosus</i>	<i>Erigeron speciosus</i> (Lindley) De Candolle	Asteraceae	Forb		
Not Assigned	<i>Erigeron speciosus</i> var. <i>macranthus</i>	<i>Erigeron speciosus</i> (Lindley) De Candolle var. <i>macranthus</i> (Nuttall) Cronquist	Asteraceae	Forb		
6	<i>Erigeron speciosus</i> var. <i>speciosus</i>	<i>Erigeron speciosus</i> (Lindley) De Candolle var. <i>speciosus</i>	Asteraceae	Forb		
*	<i>Erigeron strigosus</i> var. <i>strigosus</i>	<i>Stenactis strigosa</i> (Muhlenberg ex Willdenow) De Candolle	Asteraceae	Forb	FACU	NI

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<b>Not Assigned</b>	<i>Erigeron subtrinervis</i>	<i>Erigeron subtrinervis</i> Rydberg	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Erigeron uintahensis</i>	<i>Erigeron uintahensis</i> Cronquist	Asteraceae	Forb		
<b>7</b>	<i>Erigeron ursinus</i>	<i>Erigeron ursinus</i> D. C. Eaton	Asteraceae	Forb		
<b>7</b>	<i>Erigeron utahensis</i>	<i>Erigeron utahensis</i> A. Gray	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Erigeron utahensis</i> var. <i>sparsifolius</i>	<i>Erigeron utahensis</i> A. Gray var. <i>sparsifolius</i> (Eastwood) Cronquist	Asteraceae	Forb		
<b>7</b>	<i>Erigeron utahensis</i> var. <i>utahensis</i>	<i>Erigeron utahensis</i> A. Gray var. <i>tetrapleuris</i> (A. Gray) Cronquist	Asteraceae	Forb		
<b>9</b>	<i>Erigeron vagus</i>	<i>Erigeron vagus</i> Payson	Asteraceae	Forb		
<b>6</b>	<i>Erigeron vetensis</i>	<i>Erigeron vetensis</i> Rydberg	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Erigeron vreelandii</i>	<i>Erigeron vreelandii</i> Greene	Asteraceae	Forb		
<b>10</b>	<i>Erigeron wilkenii</i>	<i>Erigeron wilkenii</i> O'Kane	Asteraceae	Forb		
<b>0</b>	<i>Eriochloa contracta</i>	<i>Eriochloa contracta</i> A. S. Hitchcock	Poaceae	Graminoid	FACU	NI
<b>Not Assigned</b>	<i>Eriogonum acaule</i>	<i>Eriogonum acaule</i> Nuttall	Polygonaceae	Forb		
<b>5</b>	<i>Eriogonum alatum</i> var. <i>alatum</i>	<i>Pterogonum alatum</i> (Torrey) Gross	Polygonaceae	Forb		
<b>4</b>	<i>Eriogonum annuum</i>	<i>Eriogonum annuum</i> Nuttall	Polygonaceae	Forb		
<b>7</b>	<i>Eriogonum batemanii</i>	<i>Eriogonum batemanii</i> Jones	Polygonaceae	Forb		
<b>9</b>	<i>Eriogonum bicolor</i>	<i>Eriogonum bicolor</i> Jones	Polygonaceae	Forb		
<b>7</b>	<i>Eriogonum brandegeei</i>	<i>Eriogonum brandegeei</i> Rydberg	Polygonaceae	Forb		
<b>7</b>	<i>Eriogonum brevicaule</i>	<i>Eriogonum brevicaule</i> Nuttall	Polygonaceae	Forb		
<b>5</b>	<i>Eriogonum cernuum</i>	<i>Eriogonum cernuum</i> Nuttall	Polygonaceae	Forb		
<b>6</b>	<i>Eriogonum clavellatum</i>	<i>Eriogonum clavellatum</i> Small	Polygonaceae	Forb		
		<i>Eriogonum pelinophilum</i> Reveal	Polygonaceae	Forb		
<b>6</b>	<i>Eriogonum coloradense</i>	<i>Eriogonum coloradense</i> Small	Polygonaceae	Forb		
<b>5</b>	<i>Eriogonum contortum</i>	<i>Eriogonum contortum</i> Small in Rydberg	Polygonaceae	Forb		
<b>5</b>	<i>Eriogonum corymbosum</i>	<i>Eriogonum corymbosum</i> Bentham in A De Candolle	Polygonaceae	Shrub		
<b>6</b>	<i>Eriogonum corymbosum</i> var. <i>corymbosum</i>	<i>Eriogonum corymbosum</i> Bentham in A. De Candolle var. <i>corymbosum</i>	Polygonaceae	Shrub		
<b>5</b>	<i>Eriogonum corymbosum</i> var. <i>orbiculatum</i>	<i>Eriogonum corymbosum</i> Bentham in A. De Candolle var. <i>orbiculatum</i> (S. Stokes) Reveal & Brotherson	Polygonaceae	Shrub		
<b>Not Assigned</b>	<i>Eriogonum divaricatum</i>	<i>Eriogonum divaricatum</i> Hooker	Polygonaceae	Forb		

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5	<i>Eriogonum effusum</i>	<i>Eriogonum effusum</i> Nuttall	Polygonaceae	Shrub		
8	<i>Eriogonum ephedroides</i>	<i>Eriogonum ephedroides</i> Reveal	Polygonaceae	Forb		
5	<i>Eriogonum exilifolium</i>	<i>Eriogonum exilifolium</i> Reveal	Polygonaceae	Forb		
6	<i>Eriogonum flavum</i>	<i>Eriogonum flavum</i> Nuttall (see <i>E. jamesii</i> )	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum fusiforme</i>	<i>Eriogonum inflatum</i> Torrey & Fremont var. <i>fusiforme</i> (Small) Reveal	Polygonaceae	Forb		
5	<i>Eriogonum gordonii</i>	<i>Eriogonum gordonii</i> Bentham	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum heracleoides</i>	<i>Eriogonum heracleoides</i> Nuttall	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum hookeri</i>	<i>Eriogonum hookeri</i> S. Watson	Polygonaceae	Forb		
4	<i>Eriogonum inflatum</i>	<i>Eriogonum inflatum</i> Torrey & Fremont	Polygonaceae	Forb		
5	<i>Eriogonum inflatum</i> var. <i>inflatum</i>	<i>Eriogonum inflatum</i> Torrey & Fremont var. <i>inflatum</i>	Polygonaceae	Forb		
6	<i>Eriogonum jamesii</i>	<i>Eriogonum jamesii</i> Bentham in A. De Candolle	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum jamesii</i> var. <i>flavescens</i>	<i>Eriogonum jamesii</i> Bentham in A. De Candolle var. <i>flavescens</i> S. Watson	Polygonaceae	Forb		
7	<i>Eriogonum jamesii</i> var. <i>jamesii</i>	<i>Eriogonum jamesii</i> Bentham in A. De Candolle var. <i>jamesii</i>	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum jamesii</i> var. <i>xanthum</i>	<i>Eriogonum jamesii</i> Bentham in A. De Candolle var. <i>xanthum</i>	Polygonaceae	Forb		
7	<i>Eriogonum lachnogynum</i>	<i>Eriogonum lachnogynum</i> Torrey ex Bentham in A. De Candolle	Polygonaceae	Forb		
8	<i>Eriogonum leptocladon</i>	<i>Eriogonum leptocladon</i> Torrey & Gray	Polygonaceae	Shrub		
7	<i>Eriogonum leptocladon</i> var. <i>leptocladon</i>	<i>Eriogonum leptocladon</i> Torrey & Gray var. <i>leptocladon</i>	Polygonaceae	Shrub		
7	<i>Eriogonum leptocladon</i> var. <i>ramosissimum</i>	<i>Eriogonum leptocladon</i> Torrey & Gray var. <i>ramosissimum</i> (Eastwood) Reveal	Polygonaceae	Shrub		
8	<i>Eriogonum leptophyllum</i>	<i>Eriogonum leptophyllum</i> (Torrey) Wooton & Standley	Polygonaceae	Shrub		
4	<i>Eriogonum lonchophyllum</i>	<i>Eriogonum lonchophyllum</i> Torrey & Gray	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum lonchophyllum</i> var. <i>fendlerianum</i>	<i>Eriogonum fendlerianum</i> (Bentham in De Candolle) Small	Polygonaceae	Forb		
8	<i>Eriogonum lonchophyllum</i> var. <i>saurinum</i>	<i>Eriogonum saurinum</i> Reveal	Polygonaceae	Forb		

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6	<i>Eriogonum microthecum</i>	<i>Eriogonum microthecum</i> Nuttall	Polygonaceae	Shrub		
6	<i>Eriogonum microthecum</i> var. <i>laxiflorum</i>	<i>Eriogonum microthecum</i> Nuttall var. <i>laxiflorum</i> Hooker	Polygonaceae	Shrub		
6	<i>Eriogonum microthecum</i> var. <i>simpsonii</i>	<i>Eriogonum microthecum</i> Nuttall var. <i>simpsonii</i> (Bentham in A. De Candolle) Reveal	Polygonaceae	Shrub		
7	<i>Eriogonum ovalifolium</i>	<i>Eriogonum ovalifolium</i> Nuttall	Polygonaceae	Forb		
4	<i>Eriogonum palmerianum</i>	<i>Eriogonum palmerianum</i> Reveal in Munz	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum pauciflorum</i>	<i>Eriogonum pauciflorum</i> Pursh	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum pauciflorum</i> var. <i>gnaphalodes</i>	<i>Eriogonum pauciflorum</i> Pursh var. <i>gnaphalodes</i> (Bentham in Hooker) Reveal	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum pauciflorum</i> var. <i>pauciflorum</i>	<i>Eriogonum pauciflorum</i> Pursh var. <i>pauciflorum</i>	Polygonaceae	Forb		
6	<i>Eriogonum racemosum</i>	<i>Eriogonum racemosum</i> Nuttall	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum rotundifolium</i>	<i>Eriogonum rotundifolium</i> Bentham in A. De Candolle	Polygonaceae	Forb		
4	<i>Eriogonum scabrellum</i>	<i>Eriogonum scabrellum</i> Reveal	Polygonaceae	Forb		
6	<i>Eriogonum shockleyi</i> var. <i>shockleyi</i>	<i>Eriogonum shockleyi</i> S. Watson var. <i>longilobum</i> (S. Stokes) Reveal	Polygonaceae	Forb		
7	<i>Eriogonum tenellum</i>	<i>Eriogonum tenellum</i> Torrey	Polygonaceae	Forb		
7	<i>Eriogonum tumulosum</i>	<i>Eriogonum tumulosum</i> (Barneby) Reveal	Polygonaceae	Forb		
6	<i>Eriogonum umbellatum</i>	<i>Eriogonum umbellatum</i> Torrey	Polygonaceae	Forb		
6	<i>Eriogonum umbellatum</i> var. <i>aureum</i>	<i>Eriogonum umbellatum</i> Torrey var. <i>aureum</i> (Gandoger) Reveal	Polygonaceae	Forb		
		<i>Eriogonum umbellatum</i> Torrey var. <i>porteri</i> (Small) S. Stokes	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum umbellatum</i> var. <i>majus</i>	<i>Eriogonum subalpinum</i> Greene	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum umbellatum</i> var. <i>subaridum</i>	<i>Eriogonum umbellatum</i> Torrey subsp. <i>subaridum</i> (S. Stokes) Munz in Munz & Keck	Polygonaceae	Forb		
6	<i>Eriogonum umbellatum</i> var. <i>umbellatum</i>	<i>Eriogonum umbellatum</i> Torrey var. <i>umbellatum</i>	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum viridulum</i>	<i>Eriogonum viridulum</i> Reveal	Polygonaceae	Forb		
Not Assigned	<i>Eriogonum wetherillii</i>	<i>Eriogonum wetherillii</i> Eastwood	Polygonaceae	Forb		
6	<i>Erioneuron pilosum</i>	<i>Erioneuron pilosum</i> (Buckley) Nash	Poaceae	Graminoid		

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10	Eriophorum altaicum var. neogaeum	Eriophorum altaicum Meinshausen var. neogaeum Raymond	Cyperaceae	Graminoid		
9	Eriophorum angustifolium	Eriophorum angustifolium Honckeny	Cyperaceae	Graminoid	OBL	OBL
10	Eriophorum gracile	Eriophorum gracile W.D.J. Koch in Roth	Cyperaceae	Graminoid	OBL	OBL
9	Eritrichium nanum var. aretioides	Eritrichium aretioides (Chamisso) De Candolle	Boraginaceae	Forb		
*	Erodium cicutarium	Erodium cicutarium (L.) L'Heritier	Geraniaceae	Forb		
*	Eryngium planum	Eryngium planum L.	Apiaceae	Forb		
5	Erysimum capitatum	Erysimum capitatum (Douglas) Greene	Brassicaceae	Forb		
4	Erysimum capitatum var. capitatum	Erysimum asperum (Nuttall) De Candolle	Brassicaceae	Forb		
*	Erysimum cheiranthoides	Erysimum cheiranthoides L. subsp. altum Ahti	Brassicaceae	Forb	FACU	FACU-
Not Assigned	Erysimum inconspicuum	Erysimum inconspicuum (S. Watson) MacMillan	Brassicaceae	Forb		
*	Erysimum repandum	Erysimum repandum L.	Brassicaceae	Forb		
7	Erythronium grandiflorum	Erythronium grandiflorum Pursh	Liliaceae	Forb	NI	FACU
*	Eschscholzia californica	Eschscholzia californica Chamisso	Papaveraceae	Forb		
7	Escobaria missouriensis var. missouriensis	Coryphantha missouriensis (Sweet) Britton & Rose	Cactaceae	Shrub		
6	Escobaria vivipara var. vivipara	Coryphantha vivipara (Nuttall) Britton & Rose var. vivipara	Cactaceae	Shrub		
6	Eucephalus elegans	Eucephalus perelegans (Nelson & Macbride) W. A. Weber	Asteraceae	Forb		
7	Eucephalus engelmannii	Eucephalus engelmannii (D. C. Eaton) Greene	Asteraceae	Forb		
*	Euclidium syriacum	Euclidium syriacum (L.) R. Brown	Brassicaceae	Forb		
8	Eupatorium maculatum var. bruneri	Eupatorium maculatum L. subsp. bruneri (A. Gray) G. W. Douglas	Asteraceae	Forb	OBL	OBL
6	Euphorbia brachycera	Tithymalus brachyceras (Engelmann) Small	Euphorbiaceae	Forb		
Not Assigned	Euphorbia crenulata	Tithymalus crenulatus (Engelmann in Torrey) Heller	Euphorbiaceae	Forb		
*	Euphorbia cyparissias	Tithymalus cyparissias (L.) Lamarck	Euphorbiaceae	Forb		
1	Euphorbia dentata var. dentata	Poinsettia dentata (Michaux) Klotsch & Garcke	Euphorbiaceae	Forb		
*	Euphorbia esula var. esula	Tithymalus esula (L.) Scopoli	Euphorbiaceae	Forb		
*	Euphorbia esula var. uralensis	Tithymalus uralensis (Fischer ex Link) Prokhanov	Euphorbiaceae	Forb		
3	Euphorbia hexagona	Zygophyllum hexagonum (Nuttall) Small	Euphorbiaceae	Forb		
Not Assigned	Euphorbia incisa	Tithymalus incisus (Engelmann) W. A. Weber	Euphorbiaceae	Forb		

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<b>1</b>	Euphorbia marginata	Agaloma marginata (Pursh) Loeve & Loeve	Euphorbiaceae	Forb	FACU	UPL
*	Euphorbia myrsinoides	Tithymalus myrsinoides (L.) J. Hill	Euphorbiaceae	Forb		
*	Euphorbia peplus	Tithymalus peplus (L.) J. Hill	Euphorbiaceae	Forb		
<b>Not Assigned</b>	Euphorbia spathulata	Tithymalus spathulatus (Lamarck) W. A. Weber	Euphorbiaceae	Forb	FACU	NI
<b>6</b>	Eurybia glauca	Eucephalus glaucus Nuttall	Asteraceae	Forb		
<b>Not Assigned</b>	Eurybia horrida	Herrickia horrida Wooton & Standley	Asteraceae	Forb		
<b>7</b>	Eustoma exaltatum ssp. russelianum	Eustoma grandiflorum (Rafinesque) Shinners	Gentianaceae	Forb	FACW	
<b>Not Assigned</b>	Euthamia graminifolia	Euthamia graminifolia (L.) Nuttall	Asteraceae	Forb	FACW	NI
<b>Not Assigned</b>	Euthamia gymnospermoidea	Euthamia gymnospermoidea Greene	Asteraceae	Forb	FACW	NO
<b>9</b>	Euthamia occidentalis	Euthamia occidentalis Nuttall	Asteraceae	Forb	OBL	OBL
<b>9</b>	Eutrema penlandii	Eutrema edwardsii R. Brown subsp. penlandii (Rollins) W. A. Weber	Brassicaceae	Forb	NO	OBL
<b>2</b>	Evax prolifera	Evax prolifera Nuttall ex De Candolle	Asteraceae	Forb		
<b>6</b>	Evolvulus nuttallianus	Evolvulus nuttallianus Schultes	Convolvulaceae	Forb		
*	Fagopyrum esculentum	Fagopyrum esculentum Moench	Polygonaceae	Forb		
<b>6</b>	Fallugia paradoxa	Fallugia paradoxa (D. Don) Endlicher	Rosaceae	Shrub		
<b>8</b>	Fendlera rupicola	Fendlera rupicola A. Gray	Hydrangeaceae	Shrub		
<b>8</b>	Fendlerella utahensis	Fendlerella utahensis (S. Watson) Heller	Hydrangeaceae	Shrub		
<b>6</b>	Festuca arizonica	Festuca arizonica Vasey	Poaceae	Graminoid		
<b>9</b>	Festuca baffinensis	Festuca baffinensis Polunin	Poaceae	Graminoid		
<b>7</b>	Festuca brachyphylla ssp. coloradensis	Festuca brachyphylla Schultes subsp. coloradensis Fredriksen	Poaceae	Graminoid		
<b>9</b>	Festuca campestris	Festuca campestris Rydberg	Poaceae	Graminoid		
<b>8</b>	Festuca dasyclada	Argillochloa dasyclada (Hackel ex Beal) W. A. Weber	Poaceae	Graminoid		
<b>Not Assigned</b>	Festuca earlei	Festuca earlei Rydberg	Poaceae	Graminoid		
<b>9</b>	Festuca hallii	Festuca hallii (Vasey) Piper	Poaceae	Graminoid		
<b>7</b>	Festuca idahoensis	Festuca idahoensis Elmer	Poaceae	Graminoid	NI	NI
<b>7</b>	Festuca minutiflora	Festuca minutiflora Rydberg	Poaceae	Graminoid		
*	Festuca ovina	Festuca ovina L.	Poaceae	Graminoid	NI	NI
<b>5</b>	Festuca rubra	Festuca rubra L.	Poaceae	Graminoid	FAC	FAC
<b>7</b>	Festuca saximontana	Festuca saximontana Rydberg	Poaceae	Graminoid		
<b>Not Assigned</b>	Festuca sororia	Festuca sororia Piper	Poaceae	Graminoid		

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<b>Not Assigned</b>	<i>Festuca subulata</i>	<i>Festuca subulata</i> Trinius	Poaceae	Graminoid	NO	FACU
<b>8</b>	<i>Festuca thurberi</i>	<i>Festuca thurberi</i> Vasey in Rothrock	Poaceae	Graminoid		
*	<i>Filipendula ulmaria</i>	<i>Filipendula ulmaria</i> (L.) Maxim	Rosaceae	Forb		
<b>9</b>	<i>Fimbristylis puberula</i> var. <i>interior</i>	<i>Fimbristylis puberula</i> (Michaux) Vail var. <i>interior</i> (Britton) Kral	Cyperaceae	Graminoid	OBL	
<b>6</b>	<i>Flaveria campestris</i>	<i>Flaveria campestris</i> J. R. Johnston	Asteraceae	Forb	FACW	FACW
<b>Not Assigned</b>	<i>Floerkea proserpinacoides</i>	<i>Floerkea proserpinacoides</i> Willdenow	Limnanthaceae	Forb	NO	OBL
<b>6</b>	<i>Forestiera pubescens</i>	<i>Forestiera pubescens</i> Nuttall	Oleaceae	Shrub	OBL	FAC+
<b>5</b>	<i>Fragaria vesca</i> ssp. <i>bracteata</i>	<i>Fragaria vesca</i> L. subsp. <i>bracteata</i> (Heller) Staudt	Rosaceae	Forb		
<b>5</b>	<i>Fragaria virginiana</i> ssp. <i>glaуca</i>	<i>Fragaria virginiana</i> P. Miller subsp. <i>glaуca</i> (S. Watson) Staudt	Rosaceae	Forb	FACU	FACU
*	<i>Frangula alnus</i>	<i>Frangula alnus</i> P. Miller	Rhamnaceae	Shrub	NI	NI
<b>8</b>	<i>Frankenia jamesii</i>	<i>Frankenia jamesii</i> Torrey ex A. Gray	Frankeniaceae	Shrub		
<b>7</b>	<i>Frasera albomarginata</i>	<i>Frasera albomarginata</i> S. Watson	Gentianaceae	Forb		
<b>8</b>	<i>Frasera coloradensis</i>	<i>Frasera coloradensis</i> (C. M. Rogers) D. Post	Gentianaceae	Forb		
<b>7</b>	<i>Frasera paniculata</i>	<i>Frasera paniculata</i> Torrey	Gentianaceae	Forb		
<b>6</b>	<i>Frasera speciosa</i>	<i>Frasera speciosa</i> Douglas ex Grisebach	Gentianaceae	Forb	NI	UPL
*	<i>Fraxinus americana</i>	<i>Fraxinus americana</i> L.	Oleaceae	Tree	FACU	NI
<b>7</b>	<i>Fraxinus anomala</i>	<i>Fraxinus anomala</i> Torrey ex S. Watson	Oleaceae	Shrub		
*	<i>Fraxinus pennsylvanica</i>	<i>Fraxinus pennsylvanica</i> H. Marshall var. <i>lanceolata</i> (Borkhausen) Sargent	Oleaceae	Tree	FACW	FACW*
<b>8</b>	<i>Fritillaria atropurpurea</i>	<i>Fritillaria atropurpurea</i> Nuttall	Liliaceae	Forb		
<b>8</b>	<i>Fritillaria pudica</i>	<i>Fritillaria pudica</i> (Pursh) Sprengel	Liliaceae	Forb		
<b>6</b>	<i>Froelichia floridana</i> var. <i>campestris</i>	<i>Froelichia floridana</i> (Nuttall) Moquin var. <i>campestris</i> (Small) Fernald	Amaranthaceae	Forb		
<b>4</b>	<i>Froelichia gracilis</i>	<i>Froelichia gracilis</i> (Hooker) Moquin	Amaranthaceae	Forb		
*	<i>Fumaria vaillantii</i>	<i>Fumaria vaillantii</i> Loiseleur	Fumariaceae	Forb		
<b>7</b>	<i>Funastrum crispum</i>	<i>Sarcostemma crispum</i> Bentham	Asclepiadaceae	Vine		
<b>4</b>	<i>Gaillardia aristata</i>	<i>Gaillardia aristata</i> Pursh	Asteraceae	Forb		
<b>6</b>	<i>Gaillardia pinnatifida</i>	<i>Gaillardia pinnatifida</i> Torrey	Asteraceae	Forb		
<b>5</b>	<i>Gaillardia pulchella</i>	<i>Gaillardia pulchella</i> Fougeroux	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Gaillardia spathulata</i>	<i>Gaillardia spathulata</i> A. Gray	Asteraceae	Forb		
*	<i>Galeopsis bifida</i>	<i>Galeopsis bifida</i> Bonningshausen	Lamiaceae	Forb		

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*	<i>Galinsoga parviflora</i>	<i>Galinsoga parviflora</i> Cavanilles	Asteraceae	Forb		
*	<i>Galinsoga quadriradiata</i>	<i>Galinsoga quadriradiata</i> Ruiz & Pavon	Asteraceae	Forb		
*	<i>Galium aparine</i>	<i>Galium aparine</i> L.	Rubiaceae	Forb	FACU	FACU
7	<i>Galium bifolium</i>	<i>Galium bifolium</i> S. Watson	Rubiaceae	Forb		
6	<i>Galium boreale</i>	<i>Galium septentrionale</i> Roemer & Schultes	Rubiaceae	Forb	FAC	FACU
7	<i>Galium coloradoense</i>	<i>Galium coloradoense</i> W. F. Wight	Rubiaceae	Forb		
7	<i>Galium mexicanum</i> ssp. <i>aspernum</i>	<i>Galium mexicanum</i> Humboldt, Bonpland, & Kunth subsp. <i>aspernum</i> (A. Gray) Dempster	Rubiaceae	Vine, Forb/herb		FAC
*	<i>Galium odoratum</i>	<i>Galium odoratum</i> (L.) Scopoli	Rubiaceae	Forb		
*	<i>Galium spurium</i>	<i>Galium spurium</i> L.	Rubiaceae	Forb		
7	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	<i>Galium trifidum</i> L. subsp. <i>subbiflorum</i> (Wiegand) Puff	Rubiaceae	Forb	OBL	OBL
7	<i>Galium triflorum</i>	<i>Galium triflorum</i> Michaux	Rubiaceae	Forb	FACU	FACU
*	<i>Galium verum</i>	<i>Galium verum</i> L.	Rubiaceae	Vine, Forb		
8	<i>Gaultheria humifusa</i>	<i>Gaultheria humifusa</i> (R. Graham) Rydberg	Ericaceae	Shrub	NI	FACU
5	<i>Gaura coccinea</i>	<i>Gaura coccinea</i> Nuttall ex Pursh	Onagraceae	Forb		
1	<i>Gaura mollis</i>	<i>Gaura mollis</i> James	Onagraceae	Forb	NI	NI
8	<i>Gaura neomexicana</i>	<i>Gaura neomexicana</i> Wooton	Onagraceae	Forb	OBL	FACW
		<i>Gaura neomexicana</i> Wooton subsp. <i>neomexicana</i>	Onagraceae	Forb	OBL	FACW
8	<i>Gaura neomexicana</i> ssp. <i>coloradensis</i>	<i>Gaura neomexicana</i> Wooton subsp. <i>coloradensis</i> (Rydberg) Raven & Gregory	Onagraceae	Forb	OBL	FACW
5	<i>Gaura villosa</i>	<i>Gaura villosa</i> Torrey	Onagraceae	Forb		
<b>Not Assigned</b>	<i>Gayophytum decipiens</i>	<i>Gayophytum decipiens</i> Lewis & Szwedkowski	Onagraceae	Forb		
4	<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	<i>Gayophytum diffusum</i> Torrey & Gray subsp. <i>parviflorum</i> Lewis & Szwedkowski	Onagraceae	Forb		
5	<i>Gayophytum racemosum</i>	<i>Gayophytum racemosum</i> Torrey & Gray	Onagraceae	Forb	NI	NI
6	<i>Gayophytum ramosissimum</i>	<i>Gayophytum ramosissimum</i> Torrey & Gray	Onagraceae	Forb		
8	<i>Gentiana affinis</i>	<i>Pneumonanthe affinis</i> (Grisebach) Greene	Gentianaceae	Forb	NI	FACU
		<i>Pneumonanthe bigelovii</i> (A. Gray) Greene	Gentianaceae	Forb	NI	FACU
9	<i>Gentiana algida</i>	<i>Gentianodes algida</i> (Pallas) Loeve & Loeve	Gentianaceae	Forb	NI	FAC
9	<i>Gentiana andrewsii</i> var. <i>andrewsii</i>	<i>Pneumonanthe andrewsii</i> (Grisebach in Hooker) W. A. Weber	Gentianaceae	Forb	FACW	
9	<i>Gentiana fremontii</i>	<i>Chondrophylla aquatica</i> (L.) W. A. Weber	Gentianaceae	Forb	NI	OBL

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9	Gentiana nutans	Chondrophylla nutans (Bunge) W. A. Weber	Gentianaceae	Forb		
9	Gentiana parryi	Pneumonanthe parryi (Engelmann) Greene	Gentianaceae	Forb	NI	FAC
9	Gentiana prostrata	Chondrophylla prostrata (Haenke ex Jacquin) J. P. Anderson	Gentianaceae	Forb	NI	OBL
8	Gentianella amarella ssp. acuta	Gentianella acuta (Michaux) Hiiitonen	Gentianaceae	Forb	OBL	FAC
		Gentianella strictiflora (Rydberg) W. A. Weber	Gentianaceae	Forb	OBL	FAC
8	Gentianella amarella ssp. heterosepala	Gentianella heterosepala (Engelmann) Holub	Gentianaceae	Forb		FAC
10	Gentianella tenella ssp. tenella	Comastoma tenellum (Rottboel) Toyokuni	Gentianaceae	Forb		FAC+
8	Gentianella tortuosa	Gentianella tortuosa (Jones) J. M. Gillett	Gentianaceae	Forb		
9	Gentianopsis barbellata	Gentianopsis barbellata (Engelmann) Iltis	Gentianaceae	Forb	NI	FACU
8	Gentianopsis thermalis	Gentianopsis thermalis (Kuntze) Iltis	Gentianaceae	Forb	NI	OBL
7	Geranium atropurpureum var. atropurpureum	Geranium caespitosum James ex Torrey subsp. atropurpureum (Heller) W. A. Weber	Geraniaceae	Forb		
Not Assigned	Geranium bicknellii	Geranium bicknellii Britton var. longipes (S. Watson) Fernald	Geraniaceae	Forb		
6	Geranium caespitosum	Geranium caespitosum James ex Torrey	Geraniaceae	Forb		
4	Geranium caespitosum var. caespitosum	Geranium caespitosum James ex Torrey subsp. caespitosum	Geraniaceae	Forb		
*	Geranium columbinum	Geranium columbinum L.	Geraniaceae	Forb		
*	Geranium ibericum	Geranium ibericum Cav.	Geraniaceae	Forb		
6	Geranium richardsonii	Geranium richardsonii Fischer & Trautvetter	Geraniaceae	Forb	NI	FACU
5	Geranium viscosissimum var. incisum	Geranium viscosissimum Fischer & Meyer subsp. nervosum (Rydberg) W. A. Weber	Geraniaceae	Forb	NI	FACU*
6	Geum aleppicum	Geum aleppicum Jacquin subsp. strictum (Aiton) Clausen	Rosaceae	Forb	FACU	FACU
6	Geum macrophyllum var. perincisum	Geum macrophyllum Willdenow var. perincisum Raup	Rosaceae	Forb	OBL	OBL
5	Geum rivale	Geum rivale L.	Rosaceae	Forb	NI	FACW
7	Geum rossii var. turbinatum	Acomastylis rossii (R. Brown) Greene subsp. turbinata (Rydberg) W. A. Weber	Rosaceae	Forb		UPL
7	Geum triflorum var. triflorum	Erythrocoma triflora (Pursh) Greene	Rosaceae	Forb		UPL
7	Gilia clokeyi	Gilia clokeyi Mason	Polemoniaceae	Forb		
4	Gilia haydenii	Gilia haydenii A. Gray	Polemoniaceae	Forb		

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7	<i>Gilia inconspicua</i>	<i>Gilia inconspicua</i> (J. E. Smith) Douglas	Polemoniaceae	Forb		
<b>Not Assigned</b>	<i>Gilia micromeria</i>	<i>Gilia micromeria</i> A. Gray	Polemoniaceae	Forb		
6	<i>Gilia ophthalmoides</i>	<i>Gilia ophthalmoides</i> Brand	Polemoniaceae	Forb		
10	<i>Gilia penstemonoides</i>	<i>Gilia penstemonoides</i> Jones	Polemoniaceae	Forb		
5	<i>Gilia pinnatifida</i>	<i>Gilia pinnatifida</i> Nuttall	Polemoniaceae	Forb		NI
6	<i>Gilia rigidula</i> ssp. <i>acerosa</i>	<i>Giliastrum rigidulum</i> (Bentham) Rydberg subsp. <i>acerosum</i> (A. Gray) W. A. Weber	Polemoniaceae	Forb		
6	<i>Gilia sinistra</i>	<i>Gilia sinistra</i> Jones	Polemoniaceae	Forb		
<b>Not Assigned</b>	<i>Gilia sinuata</i>	<i>Gilia sinuata</i> Douglas ex Bentham	Polemoniaceae	Forb		
9	<i>Gilia stenothysa</i>	<i>Gilia stenothysa</i> A. Gray	Polemoniaceae	Forb		
7	<i>Gilia subnuda</i>	<i>Gilia subnuda</i> Torrey	Polemoniaceae	Forb		
<b>Not Assigned</b>	<i>Gilia tricolor</i>	<i>Gilia tricolor</i> Bentham	Polemoniaceae	Forb		
<b>Not Assigned</b>	<i>Gilia triodon</i>	<i>Gilia triodon</i> Eastwood	Polemoniaceae	Forb		
6	<i>Gilia tweedyi</i>	<i>Gilia tweedyi</i> Rydberg	Polemoniaceae	Forb		
3	<i>Glandularia bipinnatifida</i>	<i>Glandularia bipinnatifida</i> (Nuttall) Nuttall	Verbenaceae	Forb		
*	<i>Glaucium corniculatum</i>	<i>Glaucium corniculatum</i> (L.) Rudolph	Papaveraceae	Forb		
*	<i>Glaucium flavum</i>	<i>Glaucium flavum</i> Crantz	Papaveraceae	Forb		
7	<i>Glaux maritima</i>	<i>Glaux maritima</i> L. var. <i>angustifolia</i> Boivin	Primulaceae	Forb	OBL	OBL
*	<i>Glechoma hederacea</i>	<i>Glecoma hederacea</i> L.	Lamiaceae	Forb	FACU	UPL
1	<i>Gleditsia triacanthos</i>	<i>Gleditsia triacanthos</i> L.	Fabaceae	Shrub	FAC	FAC
10	<i>Glossopetalon planitierum</i>	<i>Forsellesia planitierum</i> Ensign	Crossosomataceae	Shrub		
8	<i>Glossopetalon spinescens</i> var. <i>meionandrum</i>	<i>Forsellesia meionandra</i> (Koehne) Heller	Crossosomataceae	Shrub		
8	<i>Glyceria borealis</i>	<i>Glyceria borealis</i> (Nash) Batchelder	Poaceae	Graminoid	OBL	OBL
6	<i>Glyceria grandis</i>	<i>Glyceria grandis</i> S. Watson in A. Gray	Poaceae	Graminoid	OBL	OBL
6	<i>Glyceria striata</i>	<i>Glyceria elata</i> (Nash ex Rydberg) Jones	Poaceae	Graminoid	OBL	OBL
		<i>Glyceria striata</i> (Lamarck) A. S. Hitchcock var. <i>stricta</i> (Scribnier) Fernald	Poaceae	Graminoid	OBL	OBL
3	<i>Glycyrrhiza lepidota</i>	<i>Glycyrrhiza lepidota</i> Pursh	Fabaceae	Forb	FACU	FAC-
5	<i>Gnaphalium palustre</i>	<i>Gnaphalium palustre</i> Nuttall	Asteraceae	Forb	OBL	FACW
5	<i>Gnaphalium uliginosum</i>	<i>Gnaphalium uliginosum</i> L.	Asteraceae	Forb	FACW	FACW
9	<i>Goodyera oblongifolia</i>	<i>Goodyera oblongifolia</i> Rafinesque	Orchidaceae	Forb	NI	UPL
9	<i>Goodyera repens</i>	<i>Goodyera repens</i> (L.) R. Brown	Orchidaceae	Forb	NI	UPL

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<b>Not Assigned</b>	<i>Gratiola neglecta</i>	<i>Gratiola neglecta</i> Torrey	Scrophulariaceae	Forb	OBL	OBL
<b>6</b>	<i>Grayia spinosa</i>	<i>Atriplex grayi</i> Collotzi ex W. A. Weber	Chenopodiaceae	Shrub		
<b>Not Assigned</b>	<i>Grindelia arizonica</i> var. <i>stenophylla</i>	<i>Grindelia arizonica</i> A. Gray var. <i>stenophylla</i> Steyermark	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Grindelia decumbens</i>	<i>Grindelia decumbens</i> Greene	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Grindelia decumbens</i> var. <i>decumbens</i>	<i>Grindelia decumbens</i> Greene var. <i>decumbens</i>	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Grindelia decumbens</i> var. <i>subincisa</i>	<i>Grindelia decumbens</i> Greene var. <i>subincisa</i> (Greene) Steyermark	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Grindelia fastigiata</i>	<i>Grindelia fastigiata</i> Greene	Asteraceae	Forb		
<b>3</b>	<i>Grindelia inornata</i>	<i>Grindelia inornata</i> Greene	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Grindelia nuda</i> var. <i>aphanactis</i>	<i>Grindelia aphanactis</i> Rydberg	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Grindelia nuda</i> var. <i>nuda</i>	<i>Grindelia squarrosa</i> (Pursh) Dunal var. <i>nuda</i> (Wood) A. Gray	Asteraceae	Forb	FACU-	FACU
<b>2</b>	<i>Grindelia papposa</i>	<i>Prionopsis ciliata</i> (Nuttall) Nuttall	Asteraceae	Forb	UPL	
<b>Not Assigned</b>	<i>Grindelia revoluta</i>	<i>Grindelia revoluta</i> Steyermark	Asteraceae	Forb		
<b>1</b>	<i>Grindelia squarrosa</i>	<i>Grindelia squarrosa</i> (Pursh) Dunal	Asteraceae	Forb	FACU-	FACU
<b>4</b>	<i>Grindelia squarrosa</i> var. <i>quasiperennis</i>	<i>Grindelia squarrosa</i> (Pursh) Dunal var. <i>quasiperennis</i> Lunell	Asteraceae	Forb		FACU
<b>4</b>	<i>Grindelia squarrosa</i> var. <i>serrulata</i>	<i>Grindelia squarrosa</i> (Pursh) Dunal var. <i>serrulata</i> (Rydberg) Steyermark	Asteraceae	Forb		FACU
<b>4</b>	<i>Grindelia subalpina</i>	<i>Grindelia subalpina</i> Greene	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Guilleminea densa</i>	<i>Guilleminea densa</i> (Willdenow ex Roemer & Schultes) Moquin	Amaranthaceae	Forb		
<b>Not Assigned</b>	<i>Gutierrezia microcephala</i>	<i>Gutierrezia microcephala</i> (De Candolle) A. Gray	Asteraceae	Shrub		
<b>3</b>	<i>Gutierrezia sarothrae</i>	<i>Gutierrezia sarothrae</i> (Pursh) Britton & Rusby	Asteraceae	Forb		
<b>10</b>	<i>Gymnocarpium ×brittonianum</i>	<i>Gymnocarpium</i> × <i>brittonianum</i> (Sarvela) Pryer & Haufler	Dryopteridaceae	Forb		
<b>9</b>	<i>Gymnocarpium dryopteris</i>	<i>Gymnocarpium dryopteris</i> (L.) Newman	Dryopteridaceae	Forb	NI	FACU
<b>5</b>	<i>Gymnosteris parvula</i>	<i>Gymnosteris parvula</i> Heller	Polemoniaceae	Forb	NI	NI
*	<i>Gypsophila elegans</i>	<i>Gypsophila elegans</i> Bieberstein	Caryophyllaceae	Forb		
*	<i>Gypsophila paniculata</i>	<i>Gypsophila paniculata</i> L.	Caryophyllaceae	Forb		
*	<i>Gypsophila scorzonerifolia</i>	<i>Gypsophila scorzonerifolia</i> Seringe in De Candolle	Caryophyllaceae	Forb		
<b>Not Assigned</b>	<i>Hackelia besseyi</i>	<i>Hackelia besseyi</i> (Rydberg) J. L. Gentry	Boraginaceae	Forb		

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3	Hackelia floribunda	Hackelia floribunda (Lehmann) I. M. Johnston	Boraginaceae	Forb	FAC	FACU
9	Hackelia gracilenta	Hackelia gracilenta (Eastwood) I. M. Johnston	Boraginaceae	Forb		
<b>Not Assigned</b>	Hackelia micrantha	Hackelia micrantha (Eastwood) J. L. Gentry	Boraginaceae	Forb	NO	NI
<b>Not Assigned</b>	Halimolobos virgata	Halimolobos virgata (Nuttall) O. E. Schulz	Brassicaceae	Forb	NI	NI
*	Halogenet glomeratus	Halogenet glomeratus (Bieberstein) C. A. Meyer	Chenopodiaceae	Forb		
6	Harbouria trachyleura	Harbouria trachyleura (A. Gray) Coulter & Rose	Apiaceae	Forb		
6	Hedeoma drummondii	Hedeoma drummondii Bentham	Lamiaceae	Forb		
5	Hedeoma hispida	Hedeoma hispidum Pursh	Lamiaceae	Forb		
5	Hedyotis nigricans	Hedyotis nigricans (Lamarck) Fosberg	Rubiaceae	Shrub		
6	Hedysarum boreale	Hedysarum boreale Nuttall	Fabaceae	Forb		
5	Hedysarum occidentale	Hedysarum occidentale Greene	Fabaceae	Forb		
5	Helenium autumnale var. montanum	Helenium autumnale L. var. montanum (Nuttall) Fernald	Asteraceae	Forb	FACW	FACW+
4	Helenium microcephalum	Helenium microcephalum De Candolle	Asteraceae	Forb	NI	NI
<b>Not Assigned</b>	Helianthella microcephala	Helianthella microcephala (A. Gray) A. Gray	Asteraceae	Forb		
5	Helianthella parryi	Helianthella parryi A. Gray	Asteraceae	Forb		
7	Helianthella quinquenervis	Helianthella quinquenervis (Hooker) A. Gray	Asteraceae	Forb	NI	UPL
6	Helianthella uniflora	Helianthella uniflora (Nuttall) Torrey & Gray	Asteraceae	Forb		
<b>Not Assigned</b>	Helianthemum bicknellii	Crocanthemum bicknellii (Fernald) Janchen	Cistaceae	Forb		
1	Helianthus annuus	Helianthus annuus L.	Asteraceae	Forb	FACU	FACU
*	Helianthus ciliaris	Helianthus ciliaris De Candolle	Asteraceae	Forb	FAC	NI
5	Helianthus maximiliani	Helianthus maximilianii Schrader	Asteraceae	Forb	UPL	FACU
3	Helianthus nuttallii	Helianthus nuttallii Torrey & Gray	Asteraceae	Forb	FAC	FACW
6	Helianthus pauciflorus ssp. subrhomboideus	Helianthus rigidus (Cassini) Desfontaines subsp. subrhomboideus (Rydberg) Heiser	Asteraceae	Forb		
2	Helianthus petiolaris	Helianthus petiolaris Nuttall	Asteraceae	Forb		
4	Helianthus pumilus	Helianthus pumilus Nuttall	Asteraceae	Forb		
*	Helianthus tuberosus	Helianthus tuberosus L.	Asteraceae	Forb	FAC	NI
<b>Not Assigned</b>	Helictotrichon hookeri	Avenula hookeri (Scribner in Hackel) Holub	Poaceae	Graminoid		
<b>Not Assigned</b>	Helictotrichon mortonianum	Helictotrichon mortonianum (Scribner) Henrard	Poaceae	Graminoid		
4	Heliomeris multiflora	Heliomeris multiflora Nuttall	Asteraceae	Forb		
<b>Not Assigned</b>	Heliopsis helianthoides var. scabra	Heliopsis helianthoides (L.) Sweet var. scabra (Dunal) Fernald	Asteraceae	Forb		

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8	<i>Heliotropium convolvulaceum</i>	<i>Euploca convolvulacea</i> Nuttall subsp. <i>convolvulacea</i>	Boraginaceae	Forb		
<b>Not Assigned</b>	<i>Heliotropium convolvulaceum</i> var. <i>californicum</i>	<i>Euploca convolvulacea</i> Nuttall subsp. <i>californica</i> (Greene) Abrams	Boraginaceae	Forb		
*	<i>Heliotropium curassavicum</i>	<i>Heliotropium curassavicum</i> L. subsp. <i>oculatum</i> (Heller) Thorne	Boraginaceae	Forb	OBL	OBL
6	<i>Heracleum maximum</i>	<i>Heracleum sphondylium</i> L. subsp. <i>montanum</i> (Schleicher ex Gaudin) Briquet in Schinz & Thellung	Apiaceae	Forb	FACW	FAC
*	<i>Hesperis matronalis</i>	<i>Hesperis matronalis</i> L.	Brassicaceae	Forb	NI	NI
<b>Not Assigned</b>	<i>Hesperochiron pumilus</i>	<i>Hesperochiron pumilus</i> (Douglas) T. C. Porter	Hydrophyllaceae	Forb	NO	FACW
6	<i>Hesperostipa comata</i>	<i>Hesperostipa comata</i> (Trinius & Ruprecht) Barkworth	Poaceae	Graminoid		
8	<i>Hesperostipa neomexicana</i>	<i>Hesperostipa neomexicana</i> (Thurber) Barkworth	Poaceae	Graminoid		
10	<i>Hesperostipa spartea</i>	<i>Hesperostipa spartea</i> (Trinius) Barkworth	Poaceae	Graminoid		
<b>Not Assigned</b>	<i>Heteranthera dubia</i>	<i>Zosterella dubia</i> (Jacquin) Small	Pontederiaceae	Forb		NO
<b>Not Assigned</b>	<i>Heteranthera limosa</i>	<i>Heteranthera limosa</i> (Swartz) Willdenow	Pontederiaceae	Forb	OBL	NI
<b>Not Assigned</b>	<i>Heterocodon rariflorum</i>	<i>Heterocodon rariflorus</i> Nuttall	Campanulaceae	Forb	NO	FAC
6	<i>Heterosperma pinnatum</i>	<i>Heterosperma pinnatum</i> Cavendilles	Asteraceae	Forb		
6	<i>Heterotheca canescens</i>	<i>Heterotheca canescens</i> (De Candolle) Shinners	Asteraceae	Forb		
5	<i>Heterotheca fulcrata</i>	<i>Heterotheca fulcrata</i> (Greene) Shinners (see <i>H. foliosa</i> )	Asteraceae	Forb		
2	<i>Heterotheca pumila</i>	<i>Heterotheca pumila</i> (Greene) Semple	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Heterotheca subaxillaris</i>	<i>Heterotheca latifolia</i> Buckley	Asteraceae	Forb	FACU	UPL
3	<i>Heterotheca villosa</i>	<i>Heterotheca villosa</i> (Pursh) Shinners	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Heterotheca villosa</i> var. <i>foliosa</i>	<i>Heterotheca foliosa</i> (Nuttall) Shinners	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Heterotheca villosa</i> var. <i>minor</i>	<i>Heterotheca villosa</i> (Pursh) Shinners var. <i>hispida</i> (Hooker) V. Harms	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Heterotheca villosa</i> var. <i>pedunculata</i>	<i>Heterotheca villosa</i> (Pursh) Shinners var. <i>pedunculata</i> (Greene) V. Harms ex Semple	Asteraceae	Forb		
2	<i>Heterotheca villosa</i> var. <i>villosa</i>	<i>Heterotheca villosa</i> (Pursh) Shinners var. <i>villosa</i>	Asteraceae	Forb		
8	<i>Heuchera bracteata</i>	<i>Heuchera bracteata</i> (Torrey) Seringe	Saxifragaceae	Forb		
7	<i>Heuchera hallii</i>	<i>Heuchera hallii</i> A. Gray	Saxifragaceae	Forb		

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7	<i>Heuchera parvifolia</i>	<i>Heuchera parvifolia</i> Nuttall ex Torrey & Gray	Saxifragaceae	Forb		
<b>Not Assigned</b>	<i>Heuchera parvifolia</i> var. <i>nivalis</i>	<i>Heuchera parvifolia</i> Nuttall ex Torrey & Gray var. <i>nivalis</i> (Rosendahl) Loeve et al.	Saxifragaceae	Forb		
6	<i>Heuchera parvifolia</i> var. <i>parvifolia</i>	<i>Heuchera parvifolia</i> Nuttall ex Torrey & Gray var. <i>parvifolia</i>	Saxifragaceae	Forb		
9	<i>Heuchera richardsonii</i>	<i>Heuchera richardsonii</i> R. Brown	Saxifragaceae	Forb	FAC	FACU
9	<i>Heuchera rubescens</i>	<i>Heuchera rubescens</i> Torrey in Stansbury	Saxifragaceae	Forb	NO	UPL
<b>Not Assigned</b>	<i>Heuchera rubescens</i> var. <i>versicolor</i>	<i>Heuchera versicolor</i> Greene	Saxifragaceae	Forb	NI	NI
*	<i>Hibiscus trionum</i>	<i>Hibiscus trionum</i> L.	Malvaceae	Forb		
5	<i>Hieracium albiflorum</i>	<i>Chlorocrepis albiflora</i> (Hooker) W. A. Weber	Asteraceae	Forb		
*	<i>Hieracium aurantiacum</i>	<i>Hieracium aurantiacum</i> L.	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Hieracium fendleri</i> var. <i>fendleri</i>	<i>Chlorocrepis fendleri</i> (Schultz-Bipontinus) W. A. Weber	Asteraceae	Forb		
6	<i>Hieracium gracile</i> var. <i>gracile</i>	<i>Chlorocrepis tristis</i> (Willdenow ex Sprengel) Loeve & Loeve subsp. <i>gracilis</i> (Hooker) W. A. Weber	Asteraceae	Forb		
9	<i>Hierochloe hirta</i> ssp. <i>arctica</i>	<i>Hierochloe hirta</i> (Schrank) Borbas subsp. <i>arctica</i> (J. Presl in K. Presl) G. Weimarck	Poaceae	Graminoid		FACW
6	<i>Hippuris vulgaris</i>	<i>Hippuris vulgaris</i> L.	Hippuridaceae	Forb	OBL	OBL
5	<i>Hoffmannseggia glauca</i>	<i>Hoffmannseggia glauca</i> (Ortega) Eifert	Fabaceae	Forb	FACU	FACU-
*	<i>Holcus lanatus</i>	<i>Holcus lanatus</i> L.	Poaceae	Graminoid	FACW	NI
8	<i>Holodiscus dumosus</i>	<i>Holodiscus dumosus</i> (Nuttall ex Hooker) Heller	Rosaceae	Shrub		
*	<i>Holosteum umbellatum</i>	<i>Holosteum umbellatum</i> L.	Caryophyllaceae	Forb		
<b>Not Assigned</b>	<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i>	<i>Critesion brachyantherum</i> (Nevski) Barkworth & Dewey	Poaceae	Graminoid		FACW-
2	<i>Hordeum jubatum</i> ssp. <i>jubatum</i>	<i>Critesion jubatum</i> (L.) Nevski	Poaceae	Graminoid	FACW	FAC*
*	<i>Hordeum murinum</i> ssp. <i>glaucum</i>	<i>Critesion glaucum</i> (Steudel) Loeve	Poaceae	Graminoid		
1	<i>Hordeum pusillum</i>	<i>Critesion pusillum</i> (Nuttall) Loeve	Poaceae	Graminoid	FAC	FAC
*	<i>Hordeum vulgare</i>	<i>Hordeum vulgare</i> L.	Poaceae	Graminoid		
		<i>Hordeum vulgare</i> L. var. <i>trifurcatum</i> (Schlechtendal) Alefeld	Poaceae	Graminoid		
		<i>Hordeum vulgare</i> L. var. <i>vulgare</i>	Poaceae	Graminoid		

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5	<i>Humulus lupulus</i>	<i>Humulus lupulus</i> L. subsp. <i>americanus</i> (Nuttall) Loeve & Loeve	Cannabaceae	Vine	NI	NI
Not Assigned	<i>Huperzia haleakalae</i>	<i>Huperzia haleakalae</i> (Brackenridge) Holub	Lycopodiaceae	Shrub	NI	NI
Not Assigned	<i>Hutchinsia procumbens</i>	<i>Hymenolobus procumbens</i> (L.) Nuttall ex Torrey & Gray	Brassicaceae	Forb	NO	NI
7	<i>Hybanthus verticillatus</i>	<i>Hybanthus verticillatus</i> (Ortega) Baillon	Violaceae	Forb		
8	<i>Hydrophyllum capitatum</i>	<i>Hydrophyllum capitatum</i> Douglas ex Bentham	Hydrophyllaceae	Forb		
7	<i>Hydrophyllum fendleri</i>	<i>Hydrophyllum fendleri</i> (A. Gray) Heller	Hydrophyllaceae	Forb	NI	FAC
6	<i>Hymenopappus filifolius</i>	<i>Hymenopappus filifolius</i> Hooker	Asteraceae	Forb		
Not Assigned	<i>Hymenopappus filifolius</i> var. <i>cinereus</i>	<i>Hymenopappus filifolius</i> Hooker var. <i>cinereus</i> (Rydberg) I. M. Johnston	Asteraceae	Forb		
Not Assigned	<i>Hymenopappus filifolius</i> var. <i>luteus</i>	<i>Hymenopappus filifolius</i> Hooker var. <i>luteus</i> (Nuttall) B. Turner	Asteraceae	Forb		
Not Assigned	<i>Hymenopappus filifolius</i> var. <i>megacephalus</i>	<i>Hymenopappus filifolius</i> Hooker var. <i>megacephalus</i> B. Turner	Asteraceae	Forb		
Not Assigned	<i>Hymenopappus filifolius</i> var. <i>parvulus</i>	<i>Hymenopappus filifolius</i> Hooker var. <i>parvulus</i> (Greene) B. Turner	Asteraceae	Forb		
Not Assigned	<i>Hymenopappus filifolius</i> var. <i>pauciflorus</i>	<i>Hymenopappus filifolius</i> Hooker var. <i>pauciflorus</i> (I. M. Johnston) B. Turner	Asteraceae	Forb		
5	<i>Hymenopappus filifolius</i> var. <i>polycephalus</i>	<i>Hymenopappus filifolius</i> Hooker var. <i>polycephalus</i> (Osterhout) B. Turner	Asteraceae	Forb		
6	<i>Hymenopappus flavescens</i>	<i>Hymenopappus flavescens</i> A. Gray	Asteraceae	Forb		
Not Assigned	<i>Hymenopappus newberryi</i>	<i>Hymenopappus newberryi</i> (A. Gray) I. M. Johnston	Asteraceae	Forb		
6	<i>Hymenopappus tenuifolius</i>	<i>Hymenopappus tenuifolius</i> Pursh	Asteraceae	Forb		
Not Assigned	<i>Hymenoxyx helenioides</i>	<i>Picradenia helenioides</i> Rydberg	Asteraceae	Forb		
5	<i>Hymenoxyx hoopesii</i>	<i>Dugaldia hoopesii</i> (A. Gray) Rydberg	Asteraceae	Forb		FACU
4	<i>Hymenoxyx odorata</i>	<i>Picradenia odorata</i> (De Candolle) Britton	Asteraceae	Forb	NI	NO
4	<i>Hymenoxyx richardsonii</i> var. <i>richardsonii</i>	<i>Picradenia richardsonii</i> Hooker	Asteraceae	Forb		
*	<i>Hyoscyamus niger</i>	<i>Hyoscyamus niger</i> L.	Solanaceae	Forb		
Not Assigned	<i>Hypericum majus</i>	<i>Hypericum majus</i> (A. Gray) Britton	Clusiaceae	Forb	FACW	FACW
*	<i>Hypericum perforatum</i>	<i>Hypericum perforatum</i> L.	Clusiaceae	Forb		

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7	<i>Hypericum scouleri</i> ssp. <i>nortoniae</i>	<i>Hypericum formosum</i> Humboldt, Bonpland, & Kunth	Clusiaceae	Forb		FACW
*	<i>Hypochaeris radicata</i>	<i>Hypochaeris radicata</i> L.	Asteraceae	Forb		NO
10	<i>Hypoxis hirsuta</i>	<i>Hypoxis hirsuta</i> (L.) Coville	Liliaceae	Forb	FACW	FACW
*	<i>Hyssopus officinalis</i>	<i>Hyssopus officinalis</i> L.	Lamiaceae	Forb		
*	<i>Iberis amara</i>	<i>Iberis amara</i> L.	Brassicaceae	Forb		
9	<i>Iliamna crandallii</i>	<i>Iliamna crandallii</i> (Rydberg) Wiggins	Malvaceae	Forb		
7	<i>Iliamna grandiflora</i>	<i>Iliamna grandiflora</i> (Rydberg) Wiggins	Malvaceae	Forb	NO	NI
8	<i>Iliamna rivularis</i>	<i>Iliamna rivularis</i> (Douglas) Greene	Malvaceae	Forb	NI	FAC
*	<i>Impatiens capensis</i>	<i>Impatiens capensis</i> Meerburgh	Balsaminaceae	Forb	FACW	FACW+
6	<i>Ipomoea leptophylla</i>	<i>Ipomoea leptophylla</i> Torrey	Convolvulaceae	Forb		
*	<i>Ipomoea purpurea</i>	<i>Ipomoea purpurea</i> L.	Convolvulaceae	Vine, Forb/herb	FACU	UPL
5	<i>Ipomopsis aggregata</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant	Polemoniaceae	Forb		
6	<i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant subsp. <i>aggregata</i>	Polemoniaceae	Forb		
6	<i>Ipomopsis aggregata</i> ssp. <i>attenuata</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant subsp. <i>attenuata</i> (A. Gray) V. & A. Grant	Polemoniaceae	Forb		
Not Assigned	<i>Ipomopsis aggregata</i> ssp. <i>candida</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant subsp. <i>candida</i> (Rydberg) V. & A. Grant	Polemoniaceae	Forb		
Not Assigned	<i>Ipomopsis aggregata</i> ssp. <i>collina</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant subsp. <i>collina</i> (Greene) Wilken & Allard	Polemoniaceae	Forb		
5	<i>Ipomopsis aggregata</i> ssp. <i>formosissima</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant subsp. <i>formosissima</i> (Greene) Wherry	Polemoniaceae	Forb		
5	<i>Ipomopsis aggregata</i> ssp. <i>weberi</i>	<i>Ipomopsis aggregata</i> (Pursh) V. Grant subsp. <i>weberi</i> Grant & Wilken	Polemoniaceae	Forb		
7	<i>Ipomopsis congesta</i>	<i>Ipomopsis congesta</i> (Hooker) V. Grant	Polemoniaceae	Forb		
7	<i>Ipomopsis congesta</i> ssp. <i>congesta</i>	<i>Ipomopsis congesta</i> (Hooker) V. Grant subsp. <i>congesta</i>	Polemoniaceae	Forb		
Not Assigned	<i>Ipomopsis congesta</i> ssp. <i>crebrifolia</i>	<i>Ipomopsis congesta</i> (Hooker) V. Grant subsp. <i>crebrifolia</i> (Rydberg) Day	Polemoniaceae	Forb		
Not Assigned	<i>Ipomopsis congesta</i> ssp. <i>frutescens</i>	<i>Ipomopsis congesta</i> (Hooker) V. Grant subsp. <i>frutescens</i> (Rydberg) Day	Polemoniaceae	Forb		
10	<i>Ipomopsis globularis</i>	<i>Ipomopsis globularis</i> (Brand) W. A. Weber	Polemoniaceae	Forb		

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<b>Not Assigned</b>	<i>Ipomopsis gunnisonii</i>	<i>Ipomopsis gunnisonii</i> (Torrey & Gray) V. Grant	Polemoniaceae	Forb		
<b>3</b>	<i>Ipomopsis laxiflora</i>	<i>Ipomopsis laxiflora</i> (Coulter) V. Grant	Polemoniaceae	Forb		
<b>7</b>	<i>Ipomopsis longiflora</i>	<i>Ipomopsis longiflora</i> (Torrey) V. Grant	Polemoniaceae	Forb		
<b>Not Assigned</b>	<i>Ipomopsis multiflora</i>	<i>Ipomopsis multiflora</i> (Nuttall) V. Grant	Polemoniaceae	Forb		
<b>2</b>	<i>Ipomopsis polyantha</i>	<i>Ipomopsis polyantha</i> (Rydberg) V. Grant	Polemoniaceae	Forb		
<b>4</b>	<i>Ipomopsis polycladon</i>	<i>Ipomopsis polycladon</i> Torrey	Polemoniaceae	Forb		
<b>8</b>	<i>Ipomopsis pumila</i>	<i>Ipomopsis pumila</i> (Nuttall) V. Grant	Polemoniaceae	Forb		
<b>8</b>	<i>Ipomopsis roseata</i>	<i>Ipomopsis roseata</i> (Rydberg) V. Grant	Polemoniaceae	Shrub		
<b>8</b>	<i>Ipomopsis spicata</i>	<i>Ipomopsis spicata</i> (Nuttall) V. Grant	Polemoniaceae	Forb		
<b>8</b>	<i>Ipomopsis tenuituba</i>	<i>Ipomopsis tenuituba</i> (Rydberg) V. Grant	Polemoniaceae	Forb		
<b>4</b>	<i>Iris missouriensis</i>	<i>Iris missouriensis</i> Nuttall	Iridaceae	Forb	OBL	OBL*
*	<i>Isatis tinctoria</i>	<i>Isatis tinctoria</i> L.	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Isocoma drummondii</i>	<i>Isocoma drummondii</i> (Torrey & Gray) Greene	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Isocoma pluriflora</i>	<i>Isocoma pluriflora</i> (Torrey & Gray) Greene	Asteraceae	Forb		
<b>10</b>	<i>Isoetes bolanderi</i>	<i>Isoetes bolanderi</i> Engelmann	Isoetaceae	Graminoid	NI	OBL
<b>10</b>	<i>Isoetes lacustris</i>	<i>Isoetes lacustris</i> L.	Isoetaceae	Graminoid		OBL
<b>10</b>	<i>Isoetes tenella</i>	<i>Isoetes setacea</i> Lamarck subsp. <i>muricata</i> (Durieu) Holub	Isoetaceae	Graminoid		OBL
<b>1</b>	<i>Iva acerosa</i>	<i>Oxytenia acerosa</i> Nuttall	Asteraceae	Forb	NI	FACU
<b>2</b>	<i>Iva axillaris</i>	<i>Iva axillaris</i> Pursh	Asteraceae	Forb	FAC	FACW
<b>2</b>	<i>Iva xanthifolia</i>	<i>Cyclachaena xanthifolia</i> (Nuttall) Fresenius	Asteraceae	Forb	FAC	FAC+
<b>4</b>	<i>Ivesia gordonii</i>	<i>Ivesia gordonii</i> (Hooker) Torrey & Gray	Rosaceae	Shrub		
<b>7</b>	<i>Jamesia americana</i>	<i>Jamesia americana</i> Torrey & Gray	Hydrangeaceae	Shrub	NI	UPL
<b>5</b>	<i>Juncus acuminatus</i>	<i>Juncus acuminatus</i> Michaux	Juncaceae	Graminoid	OBL	OBL
<b>10</b>	<i>Juncus albescens</i>	<i>Juncus albescens</i> (J. Lange) Fernald	Juncaceae	Graminoid	NI	OBL
<b>9</b>	<i>Juncus alpinoarticulatus</i>	<i>Juncus alpino-articulatus</i> Chaix in Villars	Juncaceae	Graminoid	OBL	OBL
*	<i>Juncus articulatus</i>	<i>Juncus articulatus</i> L.	Juncaceae	Graminoid	NI	OBL
<b>4</b>	<i>Juncus balticus</i> var. <i>montanus</i>	<i>Juncus arcticus</i> Willdenow subsp. <i>ater</i> (Rydberg) Hulten	Juncaceae	Graminoid	OBL	FACW
<b>10</b>	<i>Juncus biglumis</i>	<i>Juncus biglumis</i> L.	Juncaceae	Graminoid	NI	OBL
<b>5</b>	<i>Juncus brachycephalus</i>	<i>Juncus brachycephalus</i> (Engelmann) Buchenau	Juncaceae	Graminoid	NI	OBL
<b>5</b>	<i>Juncus brevicaudatus</i>	<i>Juncus brevicaudatus</i> (Engelmann) Fernald	Juncaceae	Graminoid	NI	OBL

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9	<i>Juncus bryoides</i>	<i>Juncus bryoides</i> F. J. Hermann	Juncaceae	Graminoid	NO	OBL
3	<i>Juncus bufonius</i>	<i>Juncus bufonius</i> L. var. <i>bufonius</i>	Juncaceae	Graminoid	OBL	OBL
<b>Not Assigned</b>	<i>Juncus bufonius</i> var. <i>occidentalis</i>	<i>Juncus bufonius</i> L. var. <i>occidentalis</i> F. J. Hermann	Juncaceae	Graminoid	NI	
9	<i>Juncus castaneus</i>	<i>Juncus castaneus</i> J. E. Smith	Juncaceae	Graminoid	NI	FACW+
*	<i>Juncus compressus</i>	<i>Juncus compressus</i> Jacquin	Juncaceae	Graminoid	NI	OBL
5	<i>Juncus confusus</i>	<i>Juncus confusus</i> Coville	Juncaceae	Graminoid	NI	FAC+
*	<i>Juncus dichotomus</i>	<i>Juncus platyphyllus</i> (Wiegand) Fernald	Juncaceae	Graminoid	NI	FACW-
6	<i>Juncus drummondii</i>	<i>Juncus drummondii</i> E. Meyer	Juncaceae	Graminoid	NI	FACW*
5	<i>Juncus dudleyi</i>	<i>Juncus dudleyi</i> Wiegand	Juncaceae	Graminoid		
*	<i>Juncus effusus</i>	<i>Juncus effusus</i> L.	Juncaceae	Graminoid	OBL	OBL
6	<i>Juncus ensifolius</i>	<i>Juncus ensifolius</i> Wikstrom	Juncaceae	Graminoid	NI	FACW+
9	<i>Juncus filiformis</i>	<i>Juncus filiformis</i> L.	Juncaceae	Graminoid	NI	OBL
*	<i>Juncus gerardii</i>	<i>Juncus gerardii</i> Loiseleur	Juncaceae	Graminoid	NI	OBL
<b>Not Assigned</b>	<i>Juncus hallii</i>	<i>Juncus hallii</i> Engelmann	Juncaceae	Graminoid	NI	FAC
5	<i>Juncus interior</i>	<i>Juncus interior</i> Wiegand	Juncaceae	Graminoid	FAC	FAC
6	<i>Juncus longistylis</i>	<i>Juncus longistylis</i> Torrey	Juncaceae	Graminoid	FACW	FACW+
<b>Not Assigned</b>	<i>Juncus marginatus</i>	<i>Juncus marginatus</i> Rostkovius	Juncaceae	Graminoid	FACW	FACW+
7	<i>Juncus mertensianus</i>	<i>Juncus mertensianus</i> Bongard	Juncaceae	Graminoid	NI	OBL*
<b>Not Assigned</b>	<i>Juncus nevadensis</i>	<i>Juncus nevadensis</i> S. Watson	Juncaceae	Graminoid	NI	FACW*
6	<i>Juncus nodosus</i>	<i>Juncus nodosus</i> L.	Juncaceae	Graminoid	OBL	OBL
7	<i>Juncus parryi</i>	<i>Juncus parryi</i> Engelmann	Juncaceae	Graminoid	NI	FAC*
6	<i>Juncus saximontanus</i>	<i>Juncus saximontanus</i> A. Nelson	Juncaceae	Graminoid	NI	FACW+
*	<i>Juncus tenuis</i>	<i>Juncus tenuis</i> Willdenow	Juncaceae	Graminoid	FAC	FAC
5	<i>Juncus torreyi</i>	<i>Juncus torreyi</i> Coville	Juncaceae	Graminoid	FACW	FACW+
6	<i>Juncus tracyi</i>	<i>Juncus tracyi</i> Rydberg	Juncaceae	Graminoid	NI	FACW+
10	<i>Juncus triglumis</i>	<i>Juncus triglumis</i> L.	Juncaceae	Graminoid	NI	FACW+
<b>Not Assigned</b>	<i>Juncus tweedyi</i>	<i>Juncus tweedyi</i> Rydberg	Juncaceae	Graminoid	NI	OBL
<b>Not Assigned</b>	<i>Juncus vaseyi</i>	<i>Juncus vaseyi</i> Engelmann	Juncaceae	Graminoid	OBL	FACW
6	<i>Juniperus communis</i> var. <i>montana</i>	<i>Juniperus communis</i> L. subsp. <i>alpina</i> (J. E. Smith) Celakovsky	Cupressaceae	Shrub		
6	<i>Juniperus monosperma</i>	<i>Sabina monosperma</i> (Engelmann) Rydberg	Cupressaceae	Shrub		
5	<i>Juniperus osteosperma</i>	<i>Sabina osteosperma</i> (Torrey) Antoine	Cupressaceae	Tree		

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5	<i>Juniperus scopulorum</i>	<i>Sabina scopulorum</i> (Sargent) Rydberg	Cupressaceae	Shrub		
4	<i>Juniperus virginiana</i> var. <i>virginiana</i>	<i>Sabina virginiana</i> (L.) Antoine	Cupressaceae	Tree	FACU-	
1	<i>Kallstroemia parviflora</i>	<i>Kallstroemia parviflora</i> Norton	Zygophyllaceae	Forb		
9	<i>Kalmia microphylla</i>	<i>Kalmia microphylla</i> (Hooker) Heller	Ericaceae	Shrub	NI	OBL
*	<i>Knautia arvensis</i>	<i>Knautia arvensis</i> (L.) Coulter	Dipsacaceae	Forb		
9	<i>Kobresia myosuroides</i>	<i>Kobresia myosuroides</i> (Villars) Fiori & Paoli	Cyperaceae	Graminoid	NI	FAC
10	<i>Kobresia sibirica</i>	<i>Kobresia schoenoides</i> (C. A. Meyer) Steudel	Cyperaceae	Graminoid	NI	FACW*
10	<i>Kobresia simpliciuscula</i>	<i>Kobresia simpliciuscula</i> (Wahlenberg) Mackenzie	Cyperaceae	Graminoid	NI	FACW
0	<i>Kochia americana</i>	<i>Kochia americana</i> S. Watson	Chenopodiaceae	Shrub	NI	FACU
*	<i>Kochia scoparia</i>	<i>Bassia sieversiana</i> (Pallas) W. A. Weber	Chenopodiaceae	Forb	FACU	FACU
6	<i>Koeleria macrantha</i>	<i>Koeleria macrantha</i> (Ledebour) Schultes	Poaceae	Graminoid		
9	<i>Koenigia islandica</i>	<i>Koenigia islandica</i> L.	Polygonaceae	Forb	NI	OBL
8	<i>Krameria lanceolata</i>	<i>Krameria lanceolata</i> Torrey	Krameriaceae	Shrub		
8	<i>Krascheninnikovia lanata</i>	<i>Krascheninnikovia lanata</i> (Pursh) Meeuse & Smit	Chenopodiaceae	Shrub		
Not Assigned	<i>Krigia biflora</i>	<i>Krigia biflora</i> (Walter) S. F. Blake	Asteraceae	Forb	UPL	FACU
*	<i>Lactuca biennis</i>	<i>Lactuca biennis</i> (Moench) Fernald	Asteraceae	Forb	NI	FAC
Not Assigned	<i>Lactuca canadensis</i>	<i>Lactuca canadensis</i> L.	Asteraceae	Forb	FACU	FACU
Not Assigned	<i>Lactuca graminifolia</i>	<i>Lactuca graminifolia</i> Michaux	Asteraceae	Forb	NI	NI
3	<i>Lactuca ludoviciana</i>	<i>Lactuca ludoviciana</i> (Nuttall) Riddell	Asteraceae	Forb	FAC	NI
*	<i>Lactuca serriola</i>	<i>Lactuca serriola</i> L.	Asteraceae	Forb	FAC	FACU
3	<i>Lactuca tatarica</i> var. <i>pulchella</i>	<i>Lactuca tatarica</i> (L.) C. A. Meyer subsp. <i>pulchella</i> (Pursh) Stebbins	Asteraceae	Forb		FAC
Not Assigned	<i>Laennecia coulteri</i>	<i>Conzya coulteri</i> A. Gray	Asteraceae	Forb	NI	FAC
*	<i>Laennecia schiedeana</i>	<i>Conzya schiedeana</i> (Lessing) Cronquist	Asteraceae	Forb		
*	<i>Lamium amplexicaule</i>	<i>Lamium amplexicaule</i> L.	Lamiaceae	Forb		
*	<i>Lamium purpureum</i>	<i>Lamium purpureum</i> L.	Lamiaceae	Forb		
*	<i>Lappula marginata</i>	<i>Lappula marginata</i> (Bieberstein) Guerke	Boraginaceae	Forb		
2	<i>Lappula occidentalis</i> var. <i>occidentalis</i>	<i>Lappula redowskii</i> (Hornemann) Greene	Boraginaceae	Forb		
*	<i>Lappula squarrosa</i>	<i>Lappula squarrosa</i> (Retzius) Dumont de Cours	Boraginaceae	Forb		
*	<i>Lapsana communis</i>	<i>Lapsana communis</i> L.	Asteraceae	Forb	NI	NI
8	<i>Lathyrus brachycalyx</i> ssp. <i>zionis</i>	<i>Lathyrus brachycalyx</i> Rydberg var. <i>zionis</i> (C. L. Hitchcock) Welsh	Fabaceae	Vine, Forb/herb		

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6	<i>Lathyrus eucosmus</i>	<i>Lathyrus eucosmus</i> Butters & St. John	Fabaceae	Vine, Forb/herb		
6	<i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>	<i>Lathyrus leucanthus</i> Rydberg	Fabaceae	Vine, Forb/herb		
*	<i>Lathyrus latifolius</i>	<i>Lathyrus latifolius</i> L.	Fabaceae	Vine, Forb		
8	<i>Lathyrus pauciflorus</i>	<i>Lathyrus pauciflorus</i> Fernald	Fabaceae	Vine, Forb/herb		
6	<i>Lathyrus polymorphus</i> ssp. <i>incanus</i>	<i>Lathyrus polymorphus</i> Nuttall subsp. <i>incanus</i> (Small & Rydberg) C. L. Hitchcock	Fabaceae	Vine, Forb/herb		
5	<i>Lathyrus polymorphus</i> ssp. <i>polymorphus</i>	<i>Lathyrus polymorphus</i> Nuttall subsp. <i>polymorphus</i>	Fabaceae	Vine, Forb/herb		
*	<i>Leersia oryzoides</i>	<i>Leersia oryzoides</i> (L.) Swartz	Poaceae	Graminoid	OBL	OBL
<b>Not Assigned</b>	<i>Lemna gibba</i>	<i>Lemna gibba</i> L.	Lemnaceae	Forb	OBL	OBL
2	<i>Lemna minor</i>	<i>Lemna minor</i> L.	Lemnaceae	Forb	OBL	OBL
<b>Not Assigned</b>	<i>Lemna minuta</i>	<i>Lemna minuscula</i> Herter	Lemnaceae	Forb	OBL	OBL
5	<i>Lemna trisulca</i>	<i>Lemna trisulca</i> L.	Lemnaceae	Forb	OBL	OBL
<b>Not Assigned</b>	<i>Lemna turionifera</i>	<i>Lemna turionifera</i> Landolt	Lemnaceae	Forb	NI	NI
<b>Not Assigned</b>	<i>Lemna valdiviana</i>	<i>Lemna valdiviana</i> Philippi	Lemnaceae	Forb	OBL	OBL
*	<i>Leonurus cardiaca</i>	<i>Leonurus cardiaca</i> L.	Lamiaceae	Forb		
3	<i>Lepidium alyssoides</i>	<i>Lepidium alyssoides</i> Gray	Brassicaceae	Forb		
4	<i>Lepidium alyssoides</i> var. <i>alyssoides</i>	<i>Lepidium alyssoides</i> Gray var. <i>alyssoides</i>	Brassicaceae	Shrub		
		<i>Lepidium montanum</i> Nuttall subsp. <i>alyssoides</i> (A. Gray) C. L. Hitchcock	Brassicaceae	Shrub		NI
4	<i>Lepidium alyssoides</i> var. <i>eastwoodiae</i>	<i>Lepidium alyssoides</i> Gray var. <i>eastwoodiae</i>	Brassicaceae	Forb		
*	<i>Lepidium campestre</i>	<i>Neolepia campestris</i> (L.) W. A. Weber	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Lepidium crenatum</i>	<i>Lepidium crenatum</i> (Greene) Rydberg	Brassicaceae	Shrub		
<b>Not Assigned</b>	<i>Lepidium crenatum</i>	<i>Lepidium montanum</i> Nuttall var. <i>spathulatum</i> (B. L. Robinson) C. L. Hitchcock	Brassicaceae	Shrub		NI
*	<i>Lepidium densiflorum</i>	<i>Lepidium densiflorum</i> Schrader	Brassicaceae	Forb	FAC	FACU
5	<i>Lepidium lasiocarpum</i>	<i>Lepidium lasiocarpum</i> Nuttall	Brassicaceae	Forb		
*	<i>Lepidium latifolium</i>	<i>Cardaria latifolia</i> (L.) Spach	Brassicaceae	Forb	FACW	FAC
5	<i>Lepidium montanum</i>	<i>Lepidium montanum</i> Nuttall	Brassicaceae	Forb	NI	NI
		<i>Lepidium montanum</i> Nuttall var. <i>coloradense</i>	Brassicaceae	Forb	NI	UPL
		<i>Lepidium montanum</i> Nuttall var. <i>jonesii</i>	Brassicaceae	Forb	NI	UPL
		<i>Lepidium montanum</i> Nuttall var. <i>montanum</i>	Brassicaceae	Forb	NI	UPL
		<i>Lepidium montanum</i> Nuttall var. <i>wyomingense</i>	Brassicaceae	Forb	NI	UPL

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5	<i>Lepidium montanum</i> var. <i>tenellum</i>	<i>Lepidium montanum</i> Nuttall var. <i>tenellum</i> (L. Williams) C. L. Hitchcock	Brassicaceae	Forb		NI
*	<i>Lepidium perfoliatum</i>	<i>Lepidium perfoliatum</i> L.	Brassicaceae	Forb	FAC	FACU-
2	<i>Lepidium ramosissimum</i>	<i>Lepidium ramosissimum</i> A. Nelson	Brassicaceae	Forb		
Not Assigned	<i>Lepidium ramosissimum</i> var. <i>bourgeauanum</i>	<i>Lepidium bourgeauanum</i> Thellung	Brassicaceae	Forb		
*	<i>Lepidium sativum</i>	<i>Lepidium sativum</i>	Brassicaceae	Forb		
*	<i>Lepidium strictum</i>	<i>Lepidium strictum</i> (S. Watson) Rattan	Brassicaceae	Forb		
2	<i>Lepidium virginicum</i>	<i>Lepidium virginicum</i> L.	Brassicaceae	Forb	FACU	FACU
5	<i>Leptochloa dubia</i>	<i>Diplachne dubia</i> (Kunth) Scribner	Poaceae	Graminoid		
4	<i>Leptochloa fusca</i> ssp. <i>fascicularis</i>	<i>Diplachne fascicularis</i> (Lamarck) P. Beauvois	Poaceae	Graminoid	OBL	OBL
6	<i>Leptodactylon caespitosum</i>	<i>Leptodactylon caespitosum</i> Nuttall	Polemoniaceae	Shrub		
6	<i>Leptodactylon pungens</i>	<i>Leptodactylon pungens</i> (Torrey) Rydberg	Polemoniaceae	Shrub		
Not Assigned	<i>Leptodactylon watsonii</i>	<i>Leptodactylon watsonii</i> (A. Gray) Rydberg	Polemoniaceae	Shrub		
8	<i>Lesquerella alpina</i>	<i>Lesquerella alpina</i> (Nuttall ex Torrey & Gray) S. Watson	Brassicaceae	Forb		
Not Assigned	<i>Lesquerella alpina</i> var. <i>alpina</i>	<i>Lesquerella alpina</i> (Nuttall ex Torrey & Gray) S. Watson subsp. <i>alpina</i>	Brassicaceae	Forb		
Not Assigned	<i>Lesquerella arenosa</i> var. <i>argillosoa</i>	<i>Lesquerella arenosa</i> (Richardson) Rydberg var. <i>argillosoa</i> Rollins & Shaw	Brassicaceae	Forb		
8	<i>Lesquerella calcicola</i>	<i>Lesquerella calcicola</i> Rollins	Brassicaceae	Forb		
9	<i>Lesquerella congesta</i>	<i>Lesquerella congesta</i> Rollins	Brassicaceae	Forb		
8	<i>Lesquerella fendleri</i>	<i>Lesquerella fendleri</i> (A. Gray) S. Watson	Brassicaceae	Forb		
6	<i>Lesquerella ludoviciana</i>	<i>Lesquerella ludoviciana</i> (Nuttall) S. Watson	Brassicaceae	Forb		
5	<i>Lesquerella montana</i>	<i>Lesquerella montana</i> (A. Gray) S. Watson	Brassicaceae	Forb		
8	<i>Lesquerella ovalifolia</i>	<i>Lesquerella ovalifolia</i> Rydberg	Brassicaceae	Forb		
7	<i>Lesquerella parviflora</i>	<i>Lesquerella parviflora</i> Rollins	Brassicaceae	Forb		
Not Assigned	<i>Lesquerella parvula</i>	<i>Lesquerella alpina</i> (Nuttall ex Torrey & Gray) S. Watson subsp. <i>parvula</i> (Greene) Rollins & Shaw	Brassicaceae	Forb		
7	<i>Lesquerella pruinosa</i>	<i>Lesquerella pruinosa</i> Greene	Brassicaceae	Forb		
6	<i>Lesquerella rectipes</i>	<i>Lesquerella rectipes</i> Wooton & Standley	Brassicaceae	Forb		
6	<i>Lesquerella vicina</i>	<i>Lesquerella vicina</i> Anderson, Reveal & Rollins	Brassicaceae	Forb		
*	<i>Leucanthemum maximum</i>	<i>Leucanthemum maximum</i> (Ramond) DC	Asteraceae	Forb		

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*	<i>Leucanthemum vulgare</i>	<i>Leucanthemum vulgare</i> Lamarck	Asteraceae	Forb	NI	NI
6	<i>Leucocrinum montanum</i>	<i>Leucocrinum montanum</i> Nuttall ex A. Gray	Liliaceae	Forb		
6	<i>Leucopoa kingii</i>	<i>Leucopoa kingii</i> (S. Watson) W. A. Weber	Poaceae	Graminoid		
*	<i>Levisticum officinale</i>	<i>Levisticum officinale</i> W. Koch	Apiaceae	Forb		
8	<i>Lewisia pygmaea</i>	<i>Oreobroma nevadensis</i> (A. Gray) T. J. Howell	Portulacaceae	Forb	NI	FACU
		<i>Oreobroma pygmaea</i> (A. Gray) T. J. Howell	Portulacaceae	Forb	NI	FACU
7	<i>Lewisia rediviva</i>	<i>Lewisia rediviva</i> Pursh	Portulacaceae	Forb		
9	<i>Lewisia triphylla</i>	<i>Erockallis triphylla</i> (S. Watson) Rydberg	Portulacaceae	Forb	NI	FACU
6	<i>Leymus ambiguus</i>	<i>Leymus ambiguus</i> (Vasey & Scribner) D. Dewey	Poaceae	Graminoid		
5	<i>Leymus cinereus</i>	<i>Leymus cinereus</i> (Scribner & Merrill) Loeve	Poaceae	Graminoid	NI	NI
6	<i>Leymus salinus</i>	<i>Leymus salina</i> (Jones) Loeve	Poaceae	Graminoid		
5	<i>Leymus triticoides</i>	<i>Leymus triticoides</i> (Buckley) Pilger	Poaceae	Graminoid	NI	FAC+
Not Assigned	<i>Liatris lancifolia</i>	<i>Liatris lancifolia</i> (Greene) Kittell	Asteraceae	Forb	FACW	NO
8	<i>Liatris ligulistylis</i>	<i>Liatris ligulistylis</i> (A. Nelson) K. Schumann	Asteraceae	Forb	NI	FAC
6	<i>Liatris punctata</i>	<i>Liatris punctata</i> Hooker	Asteraceae	Forb		
Not Assigned	<i>Liatris squarrosa</i> var. <i>glabrata</i>	<i>Liatris squarrosa</i> (L.) Michaux var. <i>glabrata</i> (Rydberg) Gaiser	Asteraceae	Forb		
7	<i>Ligusticum porteri</i>	<i>Ligusticum porteri</i> Coulter & Rose	Apiaceae	Forb	NI	FACU-
8	<i>Ligusticum tenuifolium</i>	<i>Ligusticum filicinum</i> S. Watson var. <i>tenuifolium</i> (S. Watson) Mathias & Constance	Apiaceae	Forb	NI	FAC
9	<i>Lilium philadelphicum</i>	<i>Lilium philadelphicum</i> L.	Liliaceae	Forb	FACW	FACU
7	<i>Limosella aquatica</i>	<i>Limosella aquatica</i> L.	Scrophulariaceae	Forb	OBL	OBL
4	<i>Linanthus nuttallii</i> ssp. <i>nuttallii</i>	<i>Linanthus nuttallii</i> (A. Gray) Ewan	Polemoniaceae	Forb		UPL
6	<i>Linanthus septentrionalis</i>	<i>Linanthus harknessii</i> (Curran) Greene var. <i>septentrionalis</i> (Mason) Jepson & Bailey	Polemoniaceae	Forb		
*	<i>Linaria dalmatica</i> ssp. <i>dalmatica</i>	<i>Linaria genistifolia</i> (L.) P. Miller subsp. <i>dalmatica</i> (L.) Maire et al.	Scrophulariaceae	Forb		
*	<i>Linaria vulgaris</i>	<i>Linaria vulgaris</i> P. Miller	Scrophulariaceae	Forb		
Not Assigned	<i>Lindernia dubia</i> var. <i>anagallidea</i>	<i>Lindernia dubia</i> (L.) Pennell var. <i>anagallidea</i> (Michaux) Cooperriider	Scrophulariaceae	Forb	OBL	OBL
9	<i>Linnaea borealis</i> ssp. <i>americana</i>	<i>Linnaea borealis</i> L. subsp. <i>americana</i> (Forbes) Hulten ex Clausen	Caprifoliaceae	Forb		FACU

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<b>Not Assigned</b>	<i>Linum aristatum</i>	<i>Mesynium aristatum</i> (Engelmann in Wislizenus) W. A. Weber	Linaceae	Forb		
<b>Not Assigned</b>	<i>Linum australe</i> var. <i>australe</i>	<i>Mesynium australe</i> (Heller) W. A. Weber	Linaceae	Forb		
*	<i>Linum grandiflorum</i>	<i>Adenolinum grandiflorum</i> (Desvaux) W. A. Weber	Linaceae	Forb		
<b>Not Assigned</b>	<i>Linum kingii</i>	<i>Mesyniopsis kingii</i> (S. Watson) W. A. Weber	Linaceae	Forb		
<b>4</b>	<i>Linum lewisii</i> var. <i>lewisii</i>	<i>Adenolinum lewisii</i> (Pursh) Loeve & Loeve	Linaceae	Forb	<b>FACU</b>	<b>FAC</b>
<b>Not Assigned</b>	<i>Linum pratense</i>	<i>Adenolinum pratense</i> (Norton) W. A. Weber	Linaceae	Forb		
<b>6</b>	<i>Linum puberulum</i>	<i>Mesynium puberulum</i> (Engelmann in A. Gray) W. A. Weber	Linaceae	Forb		
<b>5</b>	<i>Linum rigidum</i> var. <i>rigidum</i>	<i>Mesynium rigidum</i> (Pursh) Loeve & Loeve	Linaceae	Forb		
*	<i>Linum usitatissimum</i>	<i>Linum usitatissimum</i> L.	Linaceae	Forb		
<b>Not Assigned</b>	<i>Lipocarpha aristulata</i>	<i>Hemicarpha micrantha</i> Pax var. <i>aristulata</i> Coville	Cyperaceae	Graminoid	OBL	FACW
<b>9</b>	<i>Listera borealis</i>	<i>Listera borealis</i> Morong	Orchidaceae	Forb	NI	FACU
<b>10</b>	<i>Listera convallarioides</i>	<i>Listera convallarioides</i> (Swartz) Nuttall	Orchidaceae	Forb	NI	FACW
<b>9</b>	<i>Listera cordata</i> var. <i>nephrophylla</i>	<i>Listera cordata</i> (L.) R. Brown subsp. <i>nephrophylla</i> (Rydberg) Loeve & Loeve	Orchidaceae	Forb		FACU
<b>7</b>	<i>Lithophragma glabrum</i>	<i>Lithophragma glabrum</i> Nuttall	Saxifragaceae	Forb		
<b>7</b>	<i>Lithophragma parviflorum</i>	<i>Lithophragma parviflorum</i> (Hooker) Nuttall ex Torrey & Gray	Saxifragaceae	Forb		
<b>8</b>	<i>Lithophragma tenellum</i>	<i>Lithophragma tenellum</i> Nuttall	Saxifragaceae	Forb		
<b>7</b>	<i>Lithospermum caroliniense</i> var. <i>croceum</i>	<i>Lithospermum croceum</i> Fernald	Boraginaceae	Forb		
<b>5</b>	<i>Lithospermum incisum</i>	<i>Lithospermum incisum</i> Lehmann	Boraginaceae	Forb		
<b>5</b>	<i>Lithospermum multiflorum</i>	<i>Lithospermum multiflorum</i> Torrey ex A. Gray	Boraginaceae	Forb		
<b>4</b>	<i>Lithospermum ruderale</i>	<i>Lithospermum ruderale</i> Douglas ex Lehmann	Boraginaceae	Forb		
<b>8</b>	<i>Lloydia serotina</i>	<i>Lloydia serotina</i> (L.) Salisbury ex Reichenbach	Liliaceae	Forb	NI	FACU-
<b>7</b>	<i>Lobelia cardinalis</i>	<i>Lobelia cardinalis</i> L. subsp. <i>graminea</i> (Lamarck) McVaugh	Campanulaceae	Forb	OBL	OBL
<b>7</b>	<i>Lobelia siphilitica</i> var. <i>ludoviciana</i>	<i>Lobelia siphilitica</i> L. var. <i>ludoviciana</i> A. De Candolle	Campanulaceae	Forb	OBL	
*	<i>Lobularia maritima</i>	<i>Lobularia maritima</i> (L.) Desvaux	Brassicaceae	Forb		
*	<i>Lolium arundinaceum</i>	<i>Festuca arundinacea</i> Schreber	Poaceae	Graminoid	FACU	FACW-

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*	Lolium perenne	Lolium perenne L. subsp. italicum (A. Braun) Syme	Poaceae	Graminoid	FACU	FACU
*	Lolium pratense	Festuca pratensis Hudson	Poaceae	Graminoid	FAC	FACU
Not Assigned	Lomatium bicolor var. leptocarpum	Lomatium bicolor (S. Watson) Coulter & Rose var. leptocarpum (Nuttall ex Torrey & Gray) Schlessman	Apiaceae	Forb	NI	FACU-
7	Lomatium concinnum	Lomatium concinnum (Osterhout) Mathias	Apiaceae	Forb		
7	Lomatium dissectum var. multifidum	Lomatium dissectum (Nuttall) Mathias & Constance var. multifidum (Nuttall) Mathias & Constance	Apiaceae	Forb		
7	Lomatium eastwoodiae	Aletes eastwoodiae (Coulter & Rose) W. A. Weber	Apiaceae	Forb		
6	Lomatium foeniculaceum ssp. foeniculaceum	Lomatium foeniculaceum (Nuttall) Coulter & Rose subsp. foeniculaceum	Apiaceae	Forb		
Not Assigned	Lomatium foeniculaceum ssp. macdougalii	Lomatium foeniculaceum (Nuttall) Coulter & Rose subsp. macdougalii (Coulter & Rose) Theobald	Apiaceae	Forb		
7	Lomatium grayi	Lomatium grayi Coulter & Rose	Apiaceae	Forb		
Not Assigned	Lomatium juniperinum	Lomatium juniperinum (Jones) Coulter & Rose	Apiaceae	Forb		
9	Lomatium latilobum	Aletes latilobus (Rydberg) W. A. Weber	Apiaceae	Forb		
6	Lomatium macrocarpum	Lomatium macrocarpum (Hooker & Arnott) Coulter & Rose	Apiaceae	Forb		
6	Lomatium nuttallii	Aletes nuttallii (A. Gray) W. A. Weber	Apiaceae	Forb		
6	Lomatium orientale	Lomatium orientale Coulter & Rose	Apiaceae	Forb		
Not Assigned	Lomatium simplex var. simplex	Lomatium triternatum (Pursh) Coulter & Rose subsp. platycarpum (Torrey) Cronquist	Apiaceae	Forb		
9	Lomatogonium rotatum	Lomatogonium rotatum (L.) Grisebach subsp. tenuifolium (Grisebach) Porsild	Gentianaceae	Forb	NI	OBL
7	Lonicera involucrata var. involucrata	Distegia involucrata (Banks ex Sprengel) Cockerell	Caprifoliaceae	Shrub		FAC
*	Lonicera morrowii	Lonicera morrowii A. Gray in Perry	Caprifoliaceae	Shrub	NI	NI
*	Lonicera tatarica	Lonicera tatarica L.	Caprifoliaceae	Shrub	NI	NI
*	Lotus tenuis	Lotus tenuis Waldstein & Kitaibel	Fabaceae	Forb	NI	
6	Lotus wrightii	Lotus wrightii (A. Gray) Greene	Fabaceae	Forb		

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*	<i>Lunaria annua</i>	<i>Lunaria annua</i> L.	Brassicaceae	Forb		
7	<i>Lupinus ammophilus</i>	<i>Lupinus ammophilus</i> Greene	Fabaceae	Forb		
5	<i>Lupinus argenteus</i>	<i>Lupinus argenteus</i> Pursh	Fabaceae	Forb		
7	<i>Lupinus bakeri</i>	<i>Lupinus bakeri</i> Greene	Fabaceae	Forb		
Not Assigned	<i>Lupinus bakeri</i> ssp. <i>amplus</i>	<i>Lupinus bakeri</i> Greene subsp. <i>amplus</i> (Greene) Fleak & Dunn	Fabaceae	Forb		
7	<i>Lupinus bakeri</i> ssp. <i>bakeri</i>	<i>Lupinus bakeri</i> Greene subsp. <i>bakeri</i>	Fabaceae	Forb		
6	<i>Lupinus brevicaulis</i>	<i>Lupinus brevicaulis</i> S. Watson	Fabaceae	Forb		
Not Assigned	<i>Lupinus caespitosus</i>	<i>Lupinus caespitosus</i> Nuttall	Fabaceae	Forb		
5	<i>Lupinus caudatus</i>	<i>Lupinus caudatus</i> Kellogg	Fabaceae	Forb		
7	<i>Lupinus crassus</i>	<i>Lupinus crassus</i> Payson	Fabaceae	Forb		
7	<i>Lupinus kingii</i>	<i>Lupinus kingii</i> S. Watson	Fabaceae	Forb	NI	UPL
7	<i>Lupinus parviflorus</i> ssp. <i>parviflorus</i>	<i>Lupinus parviflorus</i> Nuttall subsp. <i>parviflorus</i>	Fabaceae	Forb		
6	<i>Lupinus plattensis</i>	<i>Lupinus plattensis</i> S. Watson	Fabaceae	Forb		
6	<i>Lupinus prunophilus</i>	<i>Lupinus prunophilus</i> Jones	Fabaceae	Forb	NO	FACU-
6	<i>Lupinus pusillus</i>	<i>Lupinus pusillus</i> Pursh	Fabaceae	Forb		
5	<i>Lupinus pusillus</i> ssp. <i>pusillus</i>	<i>Lupinus pusillus</i> Pursh subsp. <i>pusillus</i>	Fabaceae	Forb		
Not Assigned	<i>Lupinus pusillus</i> ssp. <i>rubens</i>	<i>Lupinus pusillus</i> Pursh subsp. <i>rubens</i> (Rydberg) Dunn	Fabaceae	Forb		
6	<i>Lupinus sericeus</i>	<i>Lupinus sericeus</i> Pursh	Fabaceae	Forb		
Not Assigned	<i>Lupinus sericeus</i> ssp. <i>sericeus</i> var. <i>egglestonianus</i>	<i>Lupinus sericeus</i> Pursh var. <i>egglestonianus</i> C. P. Smith	Fabaceae	Forb		
Not Assigned	<i>Lupinus sericeus</i> ssp. <i>sericeus</i> var. <i>flexuosus</i>	<i>Lupinus sericeus</i> Pursh var. <i>flexuosus</i> (Lindley) C. P. Smith	Fabaceae	Forb		
7	<i>Luzula comosa</i>	<i>Luzula comosa</i> E. Meyer	Juncaceae	Graminoid		
7	<i>Luzula parviflora</i>	<i>Luzula parviflora</i> (Ehrhart) Desvaux	Juncaceae	Graminoid	NI	FAC
8	<i>Luzula spicata</i>	<i>Luzula spicata</i> (L.) De Candolle	Juncaceae	Graminoid	NI	FACU
8	<i>Luzula subcapitata</i>	<i>Luzula subcapitata</i> (Rydberg) Harrington	Juncaceae	Graminoid	NI	OBL
*	<i>Lychnis coronaria</i>	<i>Coronaria coronaria</i> (Moench) Shishkin & Gorschkova	Caryophyllaceae	Forb		
*	<i>Lycium barbarum</i>	<i>Lycium barbarum</i> L.	Solanaceae	Vine, Shrub	NI	NI
5	<i>Lycium pallidum</i>	<i>Lycium pallidum</i> Miers	Solanaceae	Shrub		
7	<i>Lycopodium annotinum</i>	<i>Lycopodium annotinum</i> L.	Lycopodiaceae	Shrub	FAC-	FACU

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		<i>Lycopodium dubium</i> Zoega	Lycopodiaceae	Shrub	FAC-	FACU
5	<i>Lycopus americanus</i>	<i>Lycopus americanus</i> Muhlenberg ex W. Barton	Lamiaceae	Forb	OBL	OBL
5	<i>Lycopus asper</i>	<i>Lycopus asper</i> Greene	Lamiaceae	Forb	OBL	OBL
Not Assigned	<i>Lycopus uniflorus</i>	<i>Lycopus uniflorus</i> Michaux	Lamiaceae	Forb	OBL	OBL
8	<i>Lycurus setosus</i>	<i>Lycurus setosus</i> (Nuttall) C. Reeder	Poaceae	Graminoid		
Not Assigned	<i>Lygodesmia arizonica</i>	<i>Lygodesmia arizonica</i> Tomb	Asteraceae	Forb		
6	<i>Lygodesmia doloresensis</i>	<i>Lygodesmia doloresensis</i> Tomb	Asteraceae	Forb		
5	<i>Lygodesmia grandiflora</i>	<i>Lygodesmia grandiflora</i> (Nuttall) Torrey & Gray	Asteraceae	Forb		
4	<i>Lygodesmia juncea</i>	<i>Lygodesmia juncea</i> (Pursh) D. Don	Asteraceae	Forb		
6	<i>Lysimachia ciliata</i>	<i>Lysimachia ciliata</i> L.	Primulaceae	Forb	FACW	FACW+
*	<i>Lysimachia nummularia</i>	<i>Lysimachia nummularia</i> L.	Primulaceae	Forb	OBL	NI
Not Assigned	<i>Lysimachia thyrsiflora</i>	<i>Naumburgia thyrsiflora</i> (L.) Reichenbach	Primulaceae	Forb	OBL	OBL
*	<i>Lysimachia vulgaris</i>	<i>Lysimachia vulgaris</i> L.	Primulaceae	Forb	NI	NI
7	<i>Lythrum alatum</i>	<i>Lythrum alatum</i> Pursh	Lythraceae	Forb	OBL	NI
*	<i>Lythrum salicaria</i>	<i>Lythrum salicaria</i> L.	Lythraceae	Forb	OBL	OBL
3	<i>Machaeranthera bigelovii</i>	<i>Machaeranthera bigelovii</i> (A. Gray) Greene	Asteraceae	Forb		
5	<i>Machaeranthera bigelovii</i> var. <i>bigelovii</i>	<i>Machaeranthera pattersonii</i> (A. Gray) Greene	Asteraceae	Forb	NI	NI
Not Assigned	<i>Machaeranthera bigelovii</i> var. <i>commixta</i>	<i>Machaeranthera commixta</i> Greene	Asteraceae	Forb		
4	<i>Machaeranthera canescens</i>	<i>Machaeranthera canescens</i> (Pursh) A. Gray	Asteraceae	Forb		
		<i>Machaeranthera canescens</i> (Pursh) A. Gray var. <i>aristata</i> (Eastwood) B. Turner	Asteraceae	Forb		
Not Assigned	<i>Machaeranthera canescens</i> ssp. <i>canescens</i> var. <i>ambigua</i>	<i>Machaeranthera canescens</i> (Pursh) A. Gray var. <i>ambigua</i> B. Turner	Asteraceae	Forb		
Not Assigned	<i>Machaeranthera canescens</i> ssp. <i>glabra</i>	<i>Machaeranthera canescens</i> (Pursh) A. Gray var. <i>glabra</i> A. Gray	Asteraceae	Forb		
6	<i>Machaeranthera coloradoensis</i>	<i>Machaeranthera coloradoensis</i> (A. Gray) Osterhout	Asteraceae	Shrub		
7	<i>Machaeranthera coloradoensis</i> var. <i>brandegeei</i>	<i>Machaeranthera coloradoensis</i> (A. Gray) Osterhout var. <i>brandegeei</i> (Rydberg) T. J. Watson, {ined.}	Asteraceae	Shrub		
9	<i>Machaeranthera coloradoensis</i> var. <i>coloradoensis</i>	<i>Machaeranthera coloradoensis</i> (A. Gray) Osterhout var. <i>coloradoensis</i>	Asteraceae	Shrub		

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<b>Not Assigned</b>	<i>Machaeranthera gracilis</i>	<i>Machaeranthera gracilis</i> (Nuttall) Shinners	Asteraceae	Forb		
<b>4</b>	<i>Machaeranthera grindeliooides</i>	<i>Machaeranthera grindeliooides</i> (Nuttall) Shinners	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Machaeranthera parviflora</i>	<i>Machaeranthera parviflora</i> A. Gray	Asteraceae	Forb		
<b>4</b>	<i>Machaeranthera pinnatifida</i>	<i>Machaeranthera pinnatifida</i> (Hooker) Shinners	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Machaeranthera pinnatifida</i> ssp. <i>gooddingii</i> var. <i>paradoxa</i>	<i>Machaeranthera pinnatifida</i> (Hooker) Shinners var. <i>paradoxa</i> Turner & Hartman	Asteraceae	Forb		
<b>4</b>	<i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>glaberrima</i>	<i>Machaeranthera pinnatifida</i> (Hooker) Shinners var. <i>glaberrima</i> (Rydberg) Turner & Hartman	Asteraceae	Forb		
<b>4</b>	<i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i>	<i>Machaeranthera pinnatifida</i> (Hooker) Shinners var. <i>pinnatifida</i>	Asteraceae	Forb		
<b>2</b>	<i>Machaeranthera tanacetifolia</i>	<i>Machaeranthera tanacetifolia</i> (Humboldt, Bonpland, & Kunth) Nees	Asteraceae	Forb		
*	<i>Maclura pomifera</i>	<i>Maclura pomifera</i> (Rafinesque) C. K. Schneider	Moraceae	Shrub	UPL	UPL
*	<i>Madia glomerata</i>	<i>Madia glomerata</i> Hooker	Asteraceae	Forb	FACU	FACU
<b>6</b>	<i>Mahonia fremontii</i>	<i>Mahonia fremontii</i> (Torrey) Fedde	Berberidaceae	Shrub		
<b>5</b>	<i>Mahonia haematocarpa</i>	<i>Mahonia haematocarpa</i> (Wooton) Fedde	Berberidaceae	Shrub		
<b>5</b>	<i>Mahonia repens</i>	<i>Mahonia repens</i> (Lindley) G. Don	Berberidaceae	Shrub		
<b>7</b>	<i>Maianthemum racemosum</i> ssp. <i>amplexicaule</i>	<i>Maianthemum amplexicaule</i> (Nuttall) W. A. Weber	Liliaceae	Forb	NI	FAC-
<b>7</b>	<i>Maianthemum stellatum</i>	<i>Maianthemum stellatum</i> (L.) Link	Liliaceae	Forb	FAC	FAC
<b>5</b>	<i>Malacothrix sonchoides</i>	<i>Malacothrix sonchoides</i> (Nuttall) Torrey & Gray	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Malacothrix torreyi</i>	<i>Malacothrix torreyi</i> A. Gray	Asteraceae	Forb		
<b>10</b>	<i>Malaxis brachypoda</i>	<i>Malaxis monophyllos</i> (L.) Solander ex Swartz subsp. <i>brachypoda</i> (A. Gray) Loeve & Loeve	Orchidaceae	Forb	NI	NI
*	<i>Malcolmia africana</i>	<i>Malcolmia africana</i> (L.) R. Brown	Brassicaceae	Forb		
*	<i>Malus pumila</i>	<i>Malus domestica</i> Borkhausen	Rosaceae	Tree		
*	<i>Malva crispa</i>	<i>Malva crispa</i> (L.) L.	Malvaceae	Forb		
*	<i>Malva neglecta</i>	<i>Malva neglecta</i> Wallroth	Malvaceae	Forb		
*	<i>Malva parviflora</i>	<i>Malva parviflora</i> L.	Malvaceae	Forb		
<b>7</b>	<i>Malvella leprosa</i>	<i>Malvella leprosa</i> (Ortega) Krapovickas	Malvaceae	Forb	FACW	FAC
<b>Not Assigned</b>	<i>Malvella sagittifolia</i>	<i>Malvella sagittifolia</i> (A. Gray) Fryxell	Malvaceae	Forb		
*	<i>Marrubium vulgare</i>	<i>Marrubium vulgare</i> L.	Lamiaceae	Forb	FAC	FACU
<b>7</b>	<i>Marsilea vestita</i> ssp. <i>vestita</i>	<i>Marsilea mucronata</i> A. Braun	Marsileaceae	Forb	OBL	OBL

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*	<i>Matricaria discoidea</i>	<i>Lepidotheca suaveolens</i> (Pursh) Nuttall	Asteraceae	Forb	FACU	FACU
*	<i>Medicago lupulina</i>	<i>Medicago lupulina</i> L.	Fabaceae	Forb	FAC	FAC
*	<i>Medicago sativa</i>	<i>Medicago sativa</i> L.	Fabaceae	Forb	NI	NI
6	<i>Melampodium leucanthum</i>	<i>Melampodium leucanthum</i> Torrey & Gray	Asteraceae	Forb		
6	<i>Melica bulbosa</i>	<i>Bromelica bulbosa</i> (Geyer ex Porter & Coulter) W. A. Weber	Poaceae	Graminoid	NO	UPL
9	<i>Melica porteri</i>	<i>Melica porteri</i> Scribnier	Poaceae	Graminoid		
8	<i>Melica spectabilis</i>	<i>Bromelica spectabilis</i> (Scribnier) W. A. Weber	Poaceae	Graminoid	NI	UPL
<b>Not Assigned</b>	<i>Melica subulata</i>	<i>Bromelica subulata</i> (Grisebach) Farwell	Poaceae	Graminoid		
*	<i>Melilotus officinalis</i>	<i>Melilotus albus Medicus</i>	Fabaceae	Forb	FACU	FACU
		<i>Melilotus officinalis</i> (L.) Pallas	Fabaceae	Forb	FACU	FACU
9	<i>Menodora scabra</i>	<i>Menodora scabra</i> (Engelmann) A. Gray	Oleaceae	Forb		
*	<i>Mentha aquatica</i>	<i>Mentha piperita</i> L.	Lamiaceae	Forb	NO	OBL
4	<i>Mentha arvensis</i>	<i>Mentha arvensis</i> L.	Lamiaceae	Forb	FACW	FACW
*	<i>Mentha spicata</i>	<i>Mentha spicata</i> L.	Lamiaceae	Forb	OBL	FACW
4	<i>Mentzelia albicaulis</i>	<i>Acrolasia albicaulis</i> (Douglas ex Hooker) Rydberg	Loasaceae	Forb		
		<i>Acrolasia gracilis</i> Rydberg	Loasaceae	Forb		
9	<i>Mentzelia argillosa</i>	<i>Nuttallia argillosa</i> (J. Darlington) W. A. Weber	Loasaceae	Forb		
4	<i>Mentzelia chrysantha</i>	<i>Nuttallia chrysantha</i> (Engelmann ex Brandegee) Greene	Loasaceae	Forb		
<b>Not Assigned</b>	<i>Mentzelia croniquistii</i>	<i>Nuttallia croniquistii</i> (Thompson & Prigge) W. A. Weber	Loasaceae	Forb		
5	<i>Mentzelia decapetala</i>	<i>Nuttallia decapetala</i> (Pursh ex Sims) Greene	Loasaceae	Forb		
4	<i>Mentzelia densa</i>	<i>Nuttallia densa</i> (Greene) Greene	Loasaceae	Forb		
<b>Not Assigned</b>	<i>Mentzelia dispersa</i> var. <i>dispersa</i>	<i>Acrolasia dispersa</i> (S. Watson) Davidson	Loasaceae	Forb		
<b>Not Assigned</b>	<i>Mentzelia humilis</i>	<i>Acrolasia humilis</i> Osterhout	Loasaceae	Forb		
		<i>Nuttallia humilis</i> (Gray) Rydberg	Loasaceae	Forb		
<b>Not Assigned</b>	<i>Mentzelia laciniata</i>	<i>Nuttallia laciniata</i> (Rydberg) Wooton & Standley	Loasaceae	Forb		
<b>Not Assigned</b>	<i>Mentzelia marginata</i>	<i>Nuttallia marginata</i> Osterhout	Loasaceae	Forb		
4	<i>Mentzelia multicaulis</i> var. <i>multicaulis</i>	<i>Nuttallia multicaulis</i> (Osterhout) Osterhout	Loasaceae	Forb		
5	<i>Mentzelia multiflora</i> var. <i>multiflora</i>	<i>Nuttallia multiflora</i> (Nuttall) Greene	Loasaceae	Forb		
4	<i>Mentzelia nuda</i> var. <i>nuda</i>	<i>Nuttallia nuda</i> (Pursh) Greene	Loasaceae	Forb		
5	<i>Mentzelia oligosperma</i>	<i>Mentzelia oligosperma</i> Nuttall ex Sims	Loasaceae	Forb		

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<b>Not Assigned</b>	<i>Mentzelia pterosperma</i>	<i>Nuttallia pterosperma</i> (Eastwood) Greene	Loasaceae	Forb		
<b>5</b>	<i>Mentzelia reverchonii</i>	<i>Nuttallia reverchonii</i> (Urban & Gilg) W. A. Weber	Loasaceae	Forb		
<b>4</b>	<i>Mentzelia rusbyi</i>	<i>Nuttallia rusbyi</i> (Wooton) Rydberg	Loasaceae	Forb		
<b>5</b>	<i>Mentzelia sinuata</i>	<i>Nuttallia sinuata</i> (Rydberg) Daniels	Loasaceae	Forb		
<b>5</b>	<i>Mentzelia speciosa</i>	<i>Nuttallia speciosa</i> (Osterhout) Greene	Loasaceae	Forb		
<b>9</b>	<i>Menyanthes trifoliata</i>	<i>Menyanthes trifoliata</i> L.	Menyanthaceae	Forb	OBL	OBL
<b>9</b>	<i>Mertensia alpina</i>	<i>Mertensia alpina</i> (Torrey) G. Don	Boraginaceae	Forb		
<b>Not Assigned</b>	<i>Mertensia arizonica</i>	<i>Mertensia arizonica</i> Greene var. <i>grahamii</i> L. Williams	Boraginaceae	Forb		
<b>8</b>	<i>Mertensia brevistyla</i>	<i>Mertensia brevistyla</i> S. Watson	Boraginaceae	Forb		
<b>7</b>	<i>Mertensia ciliata</i>	<i>Mertensia ciliata</i> (James ex Torrey) G. Don	Boraginaceae	Forb	NI	OBL
<b>8</b>	<i>Mertensia franciscana</i>	<i>Mertensia franciscana</i> Heller	Boraginaceae	Forb	NI	OBL
<b>Not Assigned</b>	<i>Mertensia humilis</i>	<i>Mertensia humilis</i> Rydberg	Boraginaceae	Forb		
<b>6</b>	<i>Mertensia lanceolata</i>	<i>Mertensia lanceolata</i> (Pursh) A. De Candolle	Boraginaceae	Forb		
<b>Not Assigned</b>	<i>Mertensia lanceolata</i> var. <i>lanceolata</i>	<i>Mertensia lanceolata</i> (Pursh) A. De Candolle var. <i>lanceolata</i>	Boraginaceae	Forb		
<b>4</b>	<i>Mertensia oblongifolia</i>	<i>Mertensia fusiformis</i> Greene	Boraginaceae	Forb	FAC	
		<i>Mertensia lanceolata</i> (Pursh) A. De Candolle var. <i>viridis</i> A. Nelson	Boraginaceae	Forb		
		<i>Mertensia oblongifolia</i> (Nuttall) G. Don	Boraginaceae	Forb		
<b>5</b>	<i>Microseris nutans</i>	<i>Microseris nutans</i> (Geyer ex Hooker) Schultz-Bipontinus	Asteraceae	Forb		
<b>6</b>	<i>Mimosa borealis</i>	<i>Mimosa borealis</i> A. Gray	Fabaceae	Shrub		
<b>6</b>	<i>Mimosa microphylla</i>	<i>Schrunkia uncinata</i> Willdenow	Fabaceae	Vine, Forb/herb		
<b>Not Assigned</b>	<i>Mimosa rupertiana</i>	<i>Schrunkia occidentalis</i> (Wooton & Standley) Standley	Fabaceae	Forb		
<b>10</b>	<i>Mimulus breweri</i>	<i>Mimulus breweri</i> (Greene) Coville	Scrophulariaceae	Forb	NI	NI
<b>10</b>	<i>Mimulus eastwoodiae</i>	<i>Mimulus eastwoodiae</i> Rydberg	Scrophulariaceae	Forb	NO	OBL
<b>10</b>	<i>Mimulus floribundus</i>	<i>Mimulus floribundus</i> Douglas in Lindley	Scrophulariaceae	Forb	OBL	OBL
<b>9</b>	<i>Mimulus gemmiparus</i>	<i>Mimulus gemmiparus</i> W. A. Weber	Scrophulariaceae	Forb		
<b>5</b>	<i>Mimulus glabratus</i>	<i>Mimulus glabratus</i> Humboldt, Bonpland, & Kunth	Scrophulariaceae	Forb	OBL	OBL
		<i>Mimulus glabratus</i> Humboldt, Bonpland, & Kunth var. <i>utahensis</i> Pennell	Scrophulariaceae	Forb	OBL	OBL

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6	<i>Mimulus glabratus</i> var. <i>jamesii</i>	<i>Mimulus glabratus</i> Humboldt, Bonpland, & Kunth var. <i>fremontii</i> (Bentham) Adele Grant	Scrophulariaceae	Forb	OBL	OBL
8	<i>Mimulus guttatus</i>	<i>Mimulus guttatus</i> De Candolle	Scrophulariaceae	Forb	OBL	OBL
8	<i>Mimulus lewisii</i>	<i>Mimulus lewisii</i> Pursh	Scrophulariaceae	Forb	NO	OBL
9	<i>Mimulus moschatus</i>	<i>Mimulus moschatus</i> Douglas in Lindley	Scrophulariaceae	Forb	NI	OBL
Not Assigned	<i>Mimulus ringens</i>	<i>Mimulus ringens</i> L.	Scrophulariaceae	Forb	OBL	NO
Not Assigned	<i>Mimulus rubellus</i>	<i>Mimulus rubellus</i> A. Gray	Scrophulariaceae	Forb	NI	FAC+
6	<i>Mimulus suksdorfii</i>	<i>Mimulus suksdorfii</i>	Scrophulariaceae	Forb	NI	FAC
10	<i>Mimulus tilingii</i>	<i>Mimulus tilingii</i> Regel	Scrophulariaceae	Forb	NI	OBL
10	<i>Minuartia macrantha</i>	<i>Alsinanthe macrantha</i> (Rydberg) W. A. Weber	Caryophyllaceae	Forb		
Not Assigned	<i>Minuartia nuttallii</i> ssp. <i>nuttallii</i>	<i>Minuopsis nuttallii</i> (Pax) W. A. Weber	Caryophyllaceae	Forb		
8	<i>Minuartia obtusiloba</i>	<i>Lidia obtusiloba</i> (Rydberg) Loeve & Loeve	Caryophyllaceae	Forb	NI	UPL
Not Assigned	<i>Minuartia rubella</i>	<i>Tryphane rubella</i> (Wahlenberg) Reichenbach	Caryophyllaceae	Forb	NI	UPL
10	<i>Minuartia stricta</i>	<i>Alsinanthe stricta</i> (Swartz) Reichenbach	Caryophyllaceae	Forb	NI	
Not Assigned	<i>Mirabilis alipes</i>	<i>Mirabilis alipes</i> (S. Watson) Pilz	Nyctaginaceae	Forb		
Not Assigned	<i>Mirabilis comata</i>	<i>Oxybaphus comatus</i> (Small) Weatherby	Nyctaginaceae	Forb		
5	<i>Mirabilis glabra</i>	<i>Oxybaphus carletonii</i> (Standley) Weatherby	Nyctaginaceae	Forb		
		<i>Oxybaphus exaltatus</i> (Standley) Weatherby	Nyctaginaceae	Forb		
		<i>Oxybaphus glaber</i> S. Watson	Nyctaginaceae	Forb		
6	<i>Mirabilis hirsuta</i>	<i>Oxybaphus hirsutus</i> (Pursh) Sweet in De Candolle	Nyctaginaceae	Forb		
5	<i>Mirabilis linearis</i>	<i>Oxybaphus decumbens</i> (Nuttall) Sweet	Nyctaginaceae	Forb	NI	NI
		<i>Oxybaphus linearis</i> (Pursh) B. L. Robinson	Nyctaginaceae	Forb	NI	NI
7	<i>Mirabilis multiflora</i>	<i>Mirabilis multiflora</i> (Torrey) A. Gray	Nyctaginaceae	Forb		
Not Assigned	<i>Mirabilis multiflora</i> var. <i>glandulosa</i>	<i>Mirabilis glandulosa</i> (Standley) W. A. Weber	Nyctaginaceae	Forb		
2	<i>Mirabilis nyctaginea</i>	<i>Oxybaphus nyctagineus</i> (Michaux) T. C. Porter in Porter & Coulter	Nyctaginaceae	Forb	UPL	NI
7	<i>Mirabilis oxybaphoides</i>	<i>Mirabilis oxybaphoides</i> (A. Gray) A. Gray	Nyctaginaceae	Forb		
8	<i>Mirabilis rotundifolia</i>	<i>Oxybaphus rotundifolius</i> (Greene) Standley	Nyctaginaceae	Forb		
*	<i>Misanthus sinensis</i>	<i>Misanthus sinensis</i> Andersson	Poaceae	Graminoid	NI	NI
9	<i>Mitella pentandra</i>	<i>Mitella pentandra</i> Hooker	Saxifragaceae	Forb	NI	FACW
10	<i>Mitella stauropetala</i> var. <i>stenopetala</i>	<i>Mitella stauropetala</i> Piper var. <i>stenopetala</i> (Piper) Rosendahl	Saxifragaceae	Forb		FAC
8	<i>Moehringia lateriflora</i>	<i>Moehringia lateriflora</i> (L.) Fenzl	Caryophyllaceae	Forb	UPL	FAC

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8	<i>Moehringia macrophylla</i>	<i>Moehringia macrophylla</i> (Hooker) Torrey	Caryophyllaceae	Forb		
*	<i>Mollugo verticillata</i>	<i>Mollugo verticillata</i> L.	Molluginaceae	Forb	FAC	FAC
6	<i>Monarda fistulosa</i>	<i>Monarda fistulosa</i> L. var. <i>menthifolia</i> (R. Graham) Fernald	Lamiaceae	Shrub	FACU-	FAC
5	<i>Monarda pectinata</i>	<i>Monarda pectinata</i> Nuttall	Lamiaceae	Forb		
8	<i>Monardella odoratissima</i>	<i>Monardella odoratissima</i> Bentham	Lamiaceae	Forb	NO	UPL
9	<i>Moneses uniflora</i>	<i>Moneses uniflora</i> (L.) A. Gray	Pyrolaceae	Forb		FACU
4	<i>Monolepis nuttalliana</i>	<i>Monolepis nuttalliana</i> (Schultes) Greene	Chenopodiaceae	Forb	FACW	FACW
1	<i>Monolepis pusilla</i>	<i>Monolepis pusilla</i> Torrey	Chenopodiaceae	Forb		
8	<i>Monotropa hypopithys</i>	<i>Hypopitys monotropa</i> Crantz	Monotropaceae	Forb		
4	<i>Monroa squarrosa</i>	<i>Monroa squarrosa</i> (Nuttall) Torrey	Poaceae	Graminoid		
8	<i>Montia chamissoi</i>	<i>Crunocallis chamissoi</i> (Ledebour ex Sprengel) Rydberg	Portulacaceae	Forb	NI	OBL
*	<i>Morus alba</i>	<i>Morus alba</i> L.	Moraceae	Shrub	FAC	NI
Not Assigned	<i>Muhlenbergia andina</i>	<i>Muhlenbergia andina</i> (Nuttall) A. S. Hitchcock	Poaceae	Graminoid	NI	FACW
Not Assigned	<i>Muhlenbergia arenacea</i>	<i>Muhlenbergia arenacea</i> (Buckley) A. S. Hitchcock	Poaceae	Graminoid		
Not Assigned	<i>Muhlenbergia arenicola</i>	<i>Muhlenbergia arenicola</i> Buckley	Poaceae	Graminoid		
4	<i>Muhlenbergia asperifolia</i>	<i>Muhlenbergia asperifolia</i> (Nees & Meyen ex Trinius) Parodi	Poaceae	Graminoid	FACW	FACW+
Not Assigned	<i>Muhlenbergia brevis</i>	<i>Muhlenbergia brevis</i> Goodding	Poaceae	Graminoid		
6	<i>Muhlenbergia cuspidata</i>	<i>Muhlenbergia cuspidata</i> (Torrey) Rydberg	Poaceae	Graminoid		
Not Assigned	<i>Muhlenbergia depauperata</i>	<i>Muhlenbergia depauperata</i> Scribnier	Poaceae	Graminoid		
4	<i>Muhlenbergia filiculmis</i>	<i>Muhlenbergia filiculmis</i> Vasey	Poaceae	Graminoid		
8	<i>Muhlenbergia filiformis</i>	<i>Muhlenbergia filiformis</i> (Thurber ex S. Watson) Rydberg	Poaceae	Graminoid	FACW	FACW+
5	<i>Muhlenbergia glomerata</i>	<i>Muhlenbergia glomerata</i> (Willdenow) Trinius	Poaceae	Graminoid	FACW	FACW
Not Assigned	<i>Muhlenbergia mexicana</i>	<i>Muhlenbergia mexicana</i> (L.) Trinius	Poaceae	Graminoid	FACW	FAC
8	<i>Muhlenbergia minutissima</i>	<i>Muhlenbergia minutissima</i> (Steudel) Swallen	Poaceae	Graminoid	NI	FAC
7	<i>Muhlenbergia montana</i>	<i>Muhlenbergia montana</i> (Nuttall) A. S. Hitchcock	Poaceae	Graminoid	NI	UPL
Not Assigned	<i>Muhlenbergia pauciflora</i>	<i>Muhlenbergia pauciflora</i> Buckley	Poaceae	Graminoid		
Not Assigned	<i>Muhlenbergia porteri</i>	<i>Muhlenbergia porteri</i> Scribnier	Poaceae	Graminoid		
6	<i>Muhlenbergia pungens</i>	<i>Muhlenbergia pungens</i> Thurber ex A. Gray	Poaceae	Graminoid		

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5	Muhlenbergia racemosa	Muhlenbergia racemosa (Michaux) Britton, Sterns, & Poggenberg	Poaceae	Graminoid	FACW	FACU
Not Assigned	Muhlenbergia ramulosa	Muhlenbergia wolfii (Vasey) Rydberg	Poaceae	Graminoid	NO	FACU-
8	Muhlenbergia richardsonis	Muhlenbergia richardsonis (Trinius) Rydberg	Poaceae	Graminoid	FAC	FACU*
*	Muhlenbergia schreberi	Muhlenbergia schreberi J. F. Gmelin	Poaceae	Graminoid	FACU	NI
Not Assigned	Muhlenbergia thurberi	Muhlenbergia thurberi (Scribnier) Rydberg	Poaceae	Graminoid		
5	Muhlenbergia torreyi	Muhlenbergia torreyi (Kunth) A. S. Hitchcock ex Bush	Poaceae	Graminoid		
7	Muhlenbergia wrightii	Muhlenbergia wrightii Vasey ex Coulter	Poaceae	Graminoid	NI	FACU
5	Musineon divaricatum	Musineon divaricatum (Pursh) Rafinesque	Apiaceae	Forb		
Not Assigned	Musineon divaricatum var. divaricatum	Musineon divaricatum (Pursh) Rafinesque var. divaricatum	Apiaceae	Forb		
Not Assigned	Musineon divaricatum var. hookeri	Musineon divaricatum (Pursh) Rafinesque var. hookeri Torrey & Gray	Apiaceae	Forb		
Not Assigned	Musineon tenuifolium	Aletes tenuifolius (Nuttall ex Torrey & Gray) W. A. Weber	Apiaceae	Forb		
10	Myosotis asiatica	Myosotis asiatica (Vestergren) Schischkin & Sergievskaya	Boraginaceae	Forb	FACW	FACW
*	Myosotis scorpioides	Myosotis scorpioides L.	Boraginaceae	Forb	NI	OBL
5	Myosurus apetalus	Myosurus apetalus Gay	Ranunculaceae	Forb		
5	Myosurus apetalus var. montanus	Myosurus minimus L. subsp. montanus Campbell	Ranunculaceae	Forb		OBL
5	Myosurus cupulatus	Myosurus cupulatus S. Watson	Ranunculaceae	Forb	NO	FAC
5	Myosurus minimus	Myosurus minimus L.	Ranunculaceae	Forb	FACW	OBL
		Myosurus minimus L. subsp. minimus	Ranunculaceae	Forb	FACW	OBL
3	Myriophyllum sibiricum	Myriophyllum sibiricum Komarov	Haloragaceae	Forb	OBL	OBL
Not Assigned	Myriophyllum verticillatum	Myriophyllum verticillatum L.	Haloragaceae	Forb	OBL	OBL
*	Najas guadalupensis	Najas guadalupensis (Sprengel) Magnus	Najadaceae	Forb	OBL	OBL
Not Assigned	Nama densum	Nama densum Lemmon	Hydrophyllaceae	Forb		
10	Nama dichotomum	Nama dichotomum (Ruiz & Pavon) Choisy	Hydrophyllaceae	Forb		
Not Assigned	Nama hispidum	Nama hispidum A. Gray	Hydrophyllaceae	Forb		
4	Nassella viridula	Nassella viridula (Trinius) Barkworth	Poaceae	Graminoid		
5	Navarretia breweri	Navarretia breweri (A. Gray) Greene	Polemoniaceae	Forb		
Not Assigned	Navarretia leucocephala ssp. minima	Navarretia minima Nuttall	Polemoniaceae	Forb		FAC

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<b>Not Assigned</b>	<i>Nemophila breviflora</i>	<i>Nemophila breviflora</i> A. Gray	Hydrophyllaceae	Forb		
<b>9</b>	<i>Neoparrya lithophila</i>	<i>Aletes lithophilus</i> (Mathias) W. A. Weber	Apiaceae	Forb		
*	<i>Nepeta cataria</i>	<i>Nepeta cataria</i> L.	Lamiaceae	Forb	FACU	FACU
*	<i>Nicandra physalodes</i>	<i>Nicandra physalodes</i> (L.) Persoon	Solanaceae	Forb		
<b>3</b>	<i>Nicotiana attenuata</i>	<i>Nicotiana attenuata</i> Torrey ex S. Watson	Solanaceae	Forb	NI	UPL
<b>10</b>	<i>Nolina texana</i>	<i>Nolina texana</i> S. Watson	Liliaceae	Shrub		
<b>4</b>	<i>Nothocalais cuspidata</i>	<i>Nothocalais cuspidata</i> (Pursh) Greene	Asteraceae	Forb		
<b>10</b>	<i>Notholaena standleyi</i>	<i>Notholaena standleyi</i> Maxon	Pteridaceae	Forb		
<b>7</b>	<i>Nuphar lutea</i> ssp. <i>polysepala</i>	<i>Nuphar lutea</i> Sibthorp & Smith subsp. <i>polysepala</i> (Engelmann) Beal	Nymphaeaceae	Forb	OBL	OBL
<b>Not Assigned</b>	<i>Nuttallanthus texanus</i>	<i>Linaria canadensis</i> Dumont de Cours var. <i>texana</i> (Scheele) Pennell	Scrophulariaceae	Forb		
*	<i>Nymphaea odorata</i>	<i>Nymphaea odorata</i> Solander in Aiton	Nymphaeaceae	Forb	OBL	OBL
*	<i>Oenothera ?kleinii</i>	<i>Oenothera kleinii</i> Wagner & Mill	Onagraceae	Forb		
<b>4</b>	<i>Oenothera acutissima</i>	<i>Oenothera acutissima</i> W. L. Wagner	Onagraceae	Forb		
<b>6</b>	<i>Oenothera albicaulis</i>	<i>Oenothera albicaulis</i> Pursh	Onagraceae	Forb		
<b>5</b>	<i>Oenothera caespitosa</i>	<i>Oenothera caespitosa</i> Nuttall ex Fraser	Onagraceae	Forb		
<b>5</b>	<i>Oenothera caespitosa</i> ssp. <i>caespitosa</i>	<i>Oenothera caespitosa</i> Nuttall ex Fraser subsp. <i>caespitosa</i>	Onagraceae	Forb		
<b>3</b>	<i>Oenothera caespitosa</i> ssp. <i>macroglossa</i>	<i>Oenothera caespitosa</i> Nuttall ex Fraser subsp. <i>macroglossa</i> (Rydberg) W. L. Wagner et al.	Onagraceae	Forb		
<b>3</b>	<i>Oenothera caespitosa</i> ssp. <i>marginata</i>	<i>Oenothera caespitosa</i> Nuttall ex Fraser subsp. <i>marginata</i> (Nuttall) W. L. Wagner et al.	Onagraceae	Forb		
<b>3</b>	<i>Oenothera caespitosa</i> ssp. <i>navajoensis</i>	<i>Oenothera caespitosa</i> Nuttall ex Fraser subsp. <i>navajoensis</i> W. L. Wagner et al.	Onagraceae	Forb		
<b>4</b>	<i>Oenothera canescens</i>	<i>Oenothera canescens</i> Torrey & Fremont	Onagraceae	Forb	FACW-	NI
<b>4</b>	<i>Oenothera coronopifolia</i>	<i>Oenothera coronopifolia</i> Torrey & Gray	Onagraceae	Forb		
<b>5</b>	<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	<i>Oenothera elata</i> Humboldt, Bonpland, & Kunth subsp. <i>hirsutissima</i> (A. Gray ex S. Watson) Dietrich & Wagner	Onagraceae	Forb	FAC	FACW
<b>5</b>	<i>Oenothera engelmannii</i>	<i>Oenothera engelmannii</i> (Small) Munz	Onagraceae	Forb		
<b>6</b>	<i>Oenothera flava</i>	<i>Oenothera flava</i> (A. Nelson) Garrett	Onagraceae	Forb	FACW	FACW
<b>4</b>	<i>Oenothera grandis</i>	<i>Oenothera grandis</i> (Britton) Smyth	Onagraceae	Forb	FACU-	

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6	Oenothera harringtonii	Oenothera harringtonii W. L. Wagner et al in W. L. Wagner	Onagraceae	Forb		
5	Oenothera howardii	Oenothera howardii (A. Nelson) W. L. Wagner	Onagraceae	Forb		
5	Oenothera latifolia	Oenothera latifolia (Rydberg) Munz	Onagraceae	Forb		
Not Assigned	Oenothera longissima	Oenothera longissima Rydberg	Onagraceae	Forb	NI	OBL
4	Oenothera nuttallii	Oenothera nuttallii Sweet	Onagraceae	Forb		
4	Oenothera pallida	Oenothera pallida Lindley	Onagraceae	Forb		
Not Assigned	Oenothera pallida ssp. pallida	Oenothera pallida Lindley subsp. pallida	Onagraceae	Forb		
Not Assigned	Oenothera pallida ssp. runcinata	Oenothera pallida Lindley subsp. runcinata (Engelmann) Munz & Klein	Onagraceae	Forb		
Not Assigned	Oenothera pallida ssp. trichocalyx	Oenothera pallida Lindley subsp. trichocalyx (Nuttall ex Torrey & Gray) Munz & Klein	Onagraceae	Forb		
4	Oenothera villosa ssp. strigosa	Oenothera villosa Thunberg subsp. strigosa (Rydberg) Dietrich & Raven	Onagraceae	Forb	FACU	FAC
Not Assigned	Oligoneuron album	Unamia alba (Nuttall) Rydberg	Asteraceae	Forb		
4	Oligoneuron rigidum	Oligoneuron rigidum (L.) Small	Asteraceae	Forb		FACU-
*	Onobrychis viciifolia	Onobrychis viciifolia Scopoli	Fabaceae	Forb		
9	Onoclea sensibilis	Onoclea sensibilis L.	Dryopteridaceae	Forb	FACW	NI
*	Onopordum acanthium	Onopordum acanthium L.	Asteraceae	Forb		
*	Onopordum tauricum	Onopordum tauricum Willdenow	Asteraceae	Forb		
5	Onosmodium molle ssp. occidentale	Onosmodium molle Michaux subsp. occidentale (Mackenzie) Cochrane	Boraginaceae	Forb		
5	Oonopsis engelmannii	Oonopsis engelmannii (A. Gray) Greene	Asteraceae	Shrub		
6	Oonopsis foliosa	Oonopsis foliosa (A. Gray) Greene	Asteraceae	Shrub		
5	Opuntia erinacea var. erinacea	Opuntia erinacea Engelmann & Bigelow var. erinacea	Cactaceae	Shrub		
5	Opuntia erinacea var. utahensis	Opuntia erinacea Engelmann & Bigelow var. utahensis (Engelmann) L. Benson	Cactaceae	Shrub		
3	Opuntia fragilis	Opuntia fragilis (Nuttall) Haworth	Cactaceae	Shrub		
5	Opuntia fragilis var. brachyarthra	Opuntia fragilis (Nuttall) Haworth var. brachyarthra (Engelmann & Bigelow) Coulter	Cactaceae	Shrub		
5	Opuntia fragilis var. fragilis	Opuntia fragilis (Nuttall) Haworth var. fragilis	Cactaceae	Shrub		
Not Assigned	Opuntia heacockiae	Opuntia heacockiae Arp	Cactaceae	Shrub		

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4	<i>Opuntia imbricata</i> var. <i>imbricata</i>	<i>Cylindropuntia imbricata</i> (Haworth) Knuth	Cactaceae	Shrub		
3	<i>Opuntia macrorhiza</i>	<i>Opuntia macrorhiza</i> Engelmann	Cactaceae	Shrub		
5	<i>Opuntia phaeacantha</i>	<i>Opuntia phaeacantha</i> Engelmann	Cactaceae	Shrub		
5	<i>Opuntia phaeacantha</i> var. <i>camanchica</i>	<i>Opuntia phaeacantha</i> Engelmann var. <i>camanchica</i> (Engelmann & Bigelow) L. Benson	Cactaceae	Shrub		
5	<i>Opuntia phaeacantha</i> var. <i>major</i>	<i>Opuntia phaeacantha</i> Engelmann var. <i>major</i> Engelmann	Cactaceae	Shrub		
4	<i>Opuntia polyacantha</i>	<i>Opuntia polyacantha</i> Haworth	Cactaceae	Shrub		
5	<i>Opuntia polyacantha</i> var. <i>polyacantha</i>	<i>Opuntia polyacantha</i> Haworth var. <i>polyacantha</i>	Cactaceae	Shrub		
Not Assigned	<i>Opuntia polyacantha</i> var. <i>rufispina</i>	<i>Opuntia polyacantha</i> Haworth var. <i>rufispina</i> (Engelmann) L. Benson	Cactaceae	Shrub		
5	<i>Opuntia whipplei</i>	<i>Cylindropuntia whipplei</i> (Engelmann & Bigelow) Knuth	Cactaceae	Shrub		
8	<i>Oreochrysum parryi</i>	<i>Oreochrysum parryi</i> (A. Gray) Rydberg	Asteraceae	Forb		
10	<i>Oreoxis alpina</i> ssp. <i>alpina</i>	<i>Oreoxis alpina</i> (A. Gray) Coulter & Rose subsp. <i>alpina</i>	Apiaceae	Forb		
Not Assigned	<i>Oreoxis alpina</i> ssp. <i>puberulenta</i>	<i>Oreoxis alpina</i> (A. Gray) Coulter & Rose subsp. <i>puberulenta</i> W. A. Weber	Apiaceae	Forb		
10	<i>Oreoxis bakeri</i>	<i>Oreoxis bakeri</i> Coulter & Rose	Apiaceae	Forb		
6	<i>Oreoxis humilis</i>	<i>Oreoxis humilis</i> Rafinesque	Apiaceae	Forb		
5	<i>Orobanche fasciculata</i>	<i>Aphyllon fasciculatum</i> (Nuttall) Torrey & Gray	Orobanchaceae	Forb		
6	<i>Orobanche ludoviciana</i>	<i>Orobanche ludoviciana</i> Nuttall	Orobanchaceae	Forb		
Not Assigned	<i>Orobanche ludoviciana</i> ssp. <i>ludoviciana</i>	<i>Orobanche multiflora</i> Nuttall var. <i>arenosa</i> (Suksdorf) Munz	Orobanchaceae	Forb		
6	<i>Orobanche ludoviciana</i> ssp. <i>multiflora</i>	<i>Orobanche multiflora</i> Nuttall	Orobanchaceae	Forb		
6	<i>Orobanche uniflora</i>	<i>Aphyllon uniflorum</i> (L.) Torrey & Gray	Orobanchaceae	Forb	UPL	FACU
7	<i>Orogenia linearifolia</i>	<i>Orogenia linearifolia</i> S. Watson	Apiaceae	Forb		
8	<i>Orthilia secunda</i>	<i>Orthilia secunda</i> (L.) House	Pyrolaceae	Shrub	FACU	UPL
6	<i>Orthocarpus luteus</i>	<i>Orthocarpus luteus</i> Nuttall	Scrophulariaceae	Forb	FACU	FACU
7	<i>Orthocarpus purpureoalbus</i>	<i>Orthocarpus purpureoalbus</i> A. Gray	Scrophulariaceae	Forb		
7	<i>Oryzopsis asperifolia</i>	<i>Oryzopsis asperifolia</i> Michaux	Poaceae	Graminoid		
5	<i>Osmorrhiza berteroii</i>	<i>Osmorrhiza chilensis</i> Hooker & Arnott	Apiaceae	Forb	NI	
7	<i>Osmorrhiza depauperata</i>	<i>Osmorrhiza depauperata</i> Philippi	Apiaceae	Forb		

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8	Osmorrhiza longistylis	Osmorrhiza longistylis (Torrey) De Candolle	Apiaceae	Forb	FAC	FACU
7	Osmorrhiza occidentalis	Osmorrhiza occidentalis (Nuttall) Torrey	Apiaceae	Forb		
Not Assigned	Oxalis stricta	Oxalis dillenii Jacquin	Oxalidaceae	Forb	FACU	FACU
		Oxalis stricta L.	Oxalidaceae	Forb	FACU	NI
7	Oxalis violacea	Oxalis violacea L.	Oxalidaceae	Forb		
7	Oxypolis fendleri	Oxypolis fendleri (A. Gray) Heller	Apiaceae	Forb	NI	OBL
7	Oxyria digyna	Oxyria digyna (L.) J. Hill	Polygonaceae	Forb	NI	UPL
6	Oxytropis besseyi var. obnapiformis	Oxytropis besseyi (Rydberg) Blankinship var. obnapiformis (C. L. Porter) Welsh	Fabaceae	Forb		
Not Assigned	Oxytropis borealis var. viscosa	Oxytropis viscosa Nuttall ex Torrey & Gray	Fabaceae	Forb		
Not Assigned	Oxytropis campestris	Oxytropis campestris (L.) DC	Fabaceae	Forb		
Not Assigned	Oxytropis campestris var. cusickii	Oxytropis campestris (L.) De Candolle var. cusickii (Greenman) Barneby	Fabaceae	Forb		
Not Assigned	Oxytropis deflexa	Oxytropis deflexa (Pallas) De Candolle subsp. deflexa	Fabaceae	Forb	NI	FACU
Not Assigned	Oxytropis deflexa var. sericea	Oxytropis deflexa (Pallas) De Candolle var. sericea Torrey & Gray	Fabaceae	Forb	NI	NI
4	Oxytropis lambertii	Oxytropis lambertii Pursh	Fabaceae	Forb	FACU	UPL
		Oxytropis lambertii Pursh subsp. lambertii	Fabaceae	Forb	FACU	UPL
6	Oxytropis lambertii var. bigelovii	Oxytropis lambertii Pursh subsp. bigelovii (A. Gray) W. A. Weber	Fabaceae	Forb		UPL
5	Oxytropis monticola	Oxytropis campestris (L.) De Candolle var. gracilis (A. Nelson) Barneby	Fabaceae	Forb		
Not Assigned	Oxytropis multiceps	Oxytropis multiceps Nuttall	Fabaceae	Forb		
6	Oxytropis parryi	Oxytropis parryi A. Gray	Fabaceae	Forb	NI	UPL
Not Assigned	Oxytropis podocarpa	Oxytropis podocarpa A. Gray	Fabaceae	Forb		
5	Oxytropis sericea	Oxytropis sericea Nuttall	Fabaceae	Forb		
Not Assigned	Oxytropis splendens	Oxytropis splendens Douglas ex Hooker	Fabaceae	Forb	NI	FAC
6	Packera cana	Packera cana (Hooker) Weber & Loeve	Asteraceae	Forb		
6	Packera crocata	Packera crocata (Rydberg) Weber & Loeve	Asteraceae	Forb		FACW
10	Packera debilis	Packera debilis (Nuttall) Weber & Loeve	Asteraceae	Forb		FACW
6	Packera dimorphophylla	Packera dimorphophylla (Greene) Weber & Loeve	Asteraceae	Forb		

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7	Packera dimorphophylla ssp. dimorphophylla	Packera dimorphophylla (Greene) Weber & Loeve var. dimorphophylla	Asteraceae	Forb		
8	Packera dimorphophylla var. intermedia	Packera dimorphophylla (Greene) Weber & Loeve subsp. intermedia (T. Barkley) Weber & Loeve	Asteraceae	Forb		
4	Packera fendleri	Packera fendleri (A. Gray) Weber & Loeve	Asteraceae	Forb		
5	Packera multilobata	Packera multilobata (Torrey & Gray ex A. Gray) Weber & Loeve	Asteraceae	Forb		
8	Packera neomexicana	Packera neomexicana (A. Gray) Weber & Loeve	Asteraceae	Forb		
9	Packera pauciflora	Packera pauciflora (Pursh) Loeve & Loeve	Asteraceae	Forb		NI
Not Assigned	Packera paupercula	Packera paupercula (Michaux) Loeve	Asteraceae	Forb	FACW	FACW+
6	Packera plattensis	Packera plattensis (Nuttall) Weber & Loeve	Asteraceae	Forb	FACU	NI
Not Assigned	Packera porteri	Ligularia porteri (Greene) W. A. Weber	Asteraceae	Forb		
7	Packera pseudaura	Packera pseudaura (Rydberg) Weber & Loeve	Asteraceae	Forb		FACW
Not Assigned	Packera pseudaura var. flavula	Packera pseudaura (Rydberg) Weber & Loeve subsp. flavula (Greene) Weber & Loeve	Asteraceae	Forb		
7	Packera pseudaura var. pseudaura	Packera pseudaura (Rydberg) Weber & Loeve subsp. pseudaura	Asteraceae	Forb	FACU	FACW
8	Packera streptanthifolia	Packera oodes (Rydberg) W. A. Weber	Asteraceae	Forb		NI
Not Assigned		Packera streptanthifolia (Greene) Weber & Loeve	Asteraceae	Forb		FACU
7	Packera tridenticulata	Packera tridenticulata (Rydberg) Weber & Loeve	Asteraceae	Forb		
7	Packera werneriiifolia	Packera werneriiifolia (A. Gray) Weber & Loeve	Asteraceae	Forb		FACU
6	Palafoxia rosea var. macrolepis	Palafoxia rosea (Bush) Cory var. macrolepis (Rydberg) B. Turner	Asteraceae	Forb		
5	Palafoxia sphacelata	Palafoxia sphacelata (Nuttall ex Torrey) Cory	Asteraceae	Forb		
*	Panicum capillare	Panicum capillare L.	Poaceae	Graminoid	FAC	FACU
*	Panicum dichotomiflorum	Panicum dichotomiflorum Michaux	Poaceae	Graminoid	FAC	FACW
8	Panicum hallii	Panicum hallii Vasey	Poaceae	Graminoid	FACU	UPL
Not Assigned	Panicum hillmanii	Panicum hillmanii Chase	Poaceae	Graminoid	FAC-	NO
*	Panicum miliaceum	Panicum miliaceum L.	Poaceae	Graminoid		
4	Panicum obtusum	Panicum obtusum Humboldt, Bonpland, & Kunth	Poaceae	Graminoid	FACW	FACU
5	Panicum virgatum	Panicum virgatum L.	Poaceae	Graminoid	FAC	FAC
*	Papaver croceum	Papaver croceum Ledebour	Papaveraceae	Forb		

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*	<i>Papaver orientale</i>	<i>Papaver orientale</i> L.	Papaveraceae	Forb		
9	<i>Papaver radicatum</i> ssp. <i>kluanense</i>	<i>Papaver kluanense</i> D. Loeve	Papaveraceae	Forb		
0	<i>Parietaria pensylvanica</i>	<i>Parietaria pensylvanica</i> Muhlenberg ex Willdenow	Urticaceae	Forb	FAC	FACU
8	<i>Parnassia fimbriata</i>	<i>Parnassia fimbriata</i> Konig	Saxifragaceae	Forb	NI	OBL
8	<i>Parnassia kotzebuei</i>	<i>Parnassia kotzebuei</i> Chamisso & Schlechtendal	Saxifragaceae	Forb	NI	OBL
7	<i>Parnassia palustris</i> var. <i>parviflora</i>	<i>Parnassia parviflora</i> De Candolle	Saxifragaceae	Forb		OBL
6	<i>Paronychia jamesii</i>	<i>Paronychia jamesii</i> Torrey & Gray	Caryophyllaceae	Forb		
9	<i>Paronychia pulvinata</i>	<i>Paronychia pulvinata</i> A. Gray	Caryophyllaceae	Shrub		
7	<i>Paronychia sessiliflora</i>	<i>Paronychia sessiliflora</i> Nuttall	Caryophyllaceae	Forb		
Not Assigned	<i>Parryella filifolia</i>	<i>Parryella filifolia</i> Torrey & Gray	Fabaceae	Shrub		
7	<i>Parthenium alpinum</i>	<i>Bolophyta alpina</i> Nuttall	Asteraceae	Forb		
6	<i>Parthenium ligulatum</i>	<i>Bolophyta ligulata</i> (Jones) W. A. Weber	Asteraceae	Forb		
8	<i>Parthenium tetraneuris</i>	<i>Bolophyta tetraneuris</i> (Barneby) W. A. Weber	Asteraceae	Forb		
*	<i>Parthenocissus quinquefolia</i>	<i>Parthenocissus inserta</i> (Kerner) Fritsch	Vitaceae	Vine	FAC	NI
		<i>Parthenocissus quinquefolia</i> (L.) Planchon	Vitaceae	Vine	FAC	NI
5	<i>Pascopyrum smithii</i>	<i>Pascopyrum smithii</i> (Rydberg) Loeve	Poaceae	Graminoid	FACU	FACU
*	<i>Paspalum dilatatum</i>	<i>Paspalum dilatatum</i> Poiret	Poaceae	Graminoid	NO	NI
*	<i>Paspalum pubiflorum</i>	<i>Paspalum pubiflorum</i> Ruprecht ex Fournier var. <i>glabrum</i> Vasey & Scribnér	Poaceae	Graminoid	FAC	NI
*	<i>Paspalum racemosum</i>	<i>Paspalum racemosum</i> Lamarck	Poaceae	Graminoid	NI	NI
*	<i>Paspalum setaceum</i>	<i>Paspalum setaceum</i> Michaux var. <i>stramineum</i> (Nash) D. Banks	Poaceae	Graminoid	FAC	NO
*	<i>Pastinaca sativa</i>	<i>Pastinaca sativa</i> L.	Apiaceae	Forb		
7	<i>Paxistima myrsinoides</i>	<i>Paxistima myrsinoides</i> (Pursh) Rafinesque	Celastraceae	Shrub		
4	<i>Pectis angustifolia</i>	<i>Pectis angustifolia</i> Torrey	Asteraceae	Forb		
7	<i>Pedicularis bracteosa</i> var. <i>paysoniana</i>	<i>Pedicularis bracteosa</i> Bentham in Hooker subsp. <i>paysoniana</i> (Pennell) W. A. Weber	Scrophulariaceae	Forb		
Not Assigned	<i>Pedicularis canadensis</i> ssp. <i>fluviatilis</i>	<i>Pedicularis canadensis</i> L. subsp. <i>fluviatilis</i> (Heller) W. A. Weber	Scrophulariaceae	Forb	FACU	FAC
8	<i>Pedicularis centranthera</i>	<i>Pedicularis centranthera</i> A. Gray	Scrophulariaceae	Forb		
7	<i>Pedicularis crenulata</i>	<i>Pedicularis crenulata</i> Bentham in De Candolle	Scrophulariaceae	Forb	NI	OBL
8	<i>Pedicularis groenlandica</i>	<i>Pedicularis groenlandica</i> Retzius	Scrophulariaceae	Forb	NI	OBL
9	<i>Pedicularis parryi</i>	<i>Pedicularis parryi</i> A. Gray	Scrophulariaceae	Forb	NI	FACU-

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		<i>Pedicularis parryi</i> A. Gray subsp. <i>parryi</i>	Scrophulariaceae	Forb	NI	FACU-
10	<i>Pedicularis parryi</i> ssp. <i>mogollonica</i>	<i>Pedicularis parryi</i> A. Gray subsp. <i>mogollonica</i> (Greene) Carr	Scrophulariaceae	Forb		
8	<i>Pedicularis procera</i>	<i>Pedicularis procera</i> A. Gray	Scrophulariaceae	Forb	NI	FACU
7	<i>Pedicularis racemosa</i> ssp. <i>alba</i>	<i>Pedicularis racemosa</i> Douglas ex Hooker subsp. <i>alba</i> Pennell	Scrophulariaceae	Forb		
8	<i>Pedicularis sudetica</i> ssp. <i>scopulorum</i>	<i>Pedicularis scopulorum</i> A. Gray	Scrophulariaceae	Forb		FACW
6	<i>Pediocactus simpsonii</i>	<i>Pediocactus simpsonii</i> (Engelmann) Britton & Rose	Cactaceae	Shrub		
6	<i>Pediocactus simpsonii</i> var. <i>minor</i>	<i>Pediocactus simpsonii</i> (Engelmann) Britton & Rose var. <i>minor</i> (Engelmann) Cockerell	Cactaceae	Shrub		
6	<i>Pediocactus simpsonii</i> var. <i>simpsonii</i>	<i>Pediocactus simpsonii</i> (Engelmann) Britton & Rose var. <i>simpsonii</i>	Cactaceae	Shrub		
7	<i>Pediomelum argophyllum</i>	<i>Psoralidium argophyllum</i> (Pursh) Rydberg	Fabaceae	Forb		
6	<i>Pediomelum aromaticum</i>	<i>Pediomelum aromaticum</i> (Payson) W. A. Weber	Fabaceae	Forb		
8	<i>Pediomelum cuspidatum</i>	<i>Pediomelum cuspidatum</i> (Pursh) Rydberg	Fabaceae	Forb		
9	<i>Pediomelum digitatum</i>	<i>Psoralidium digitatum</i> (Nuttall) Rydberg	Fabaceae	Forb		
7	<i>Pediomelum esculentum</i>	<i>Pediomelum esculentum</i> (Pursh) Rydberg	Fabaceae	Forb		
9	<i>Pediomelum hypogaeum</i>	<i>Pediomelum hypogaeum</i> (Nuttall ex Torrey & Gray) Rydberg	Fabaceae	Forb		
8	<i>Pediomelum linearifolium</i>	<i>Psoralidium linearifolium</i> (Torrey & Gray) Rydberg	Fabaceae	Forb		
7	<i>Pediomelum megalanthum</i>	<i>Pediomelum megalanthum</i> (Wooton & Standley) Rydberg	Fabaceae	Forb		
9	<i>Pellaea atropurpurea</i>	<i>Pellaea atropurpurea</i> (L.) Link	Pteridaceae	Forb		
9	<i>Pellaea breweri</i>	<i>Pellaea breweri</i> D. C. Eaton	Pteridaceae	Forb		
9	<i>Pellaea glabella</i>	<i>Pellaea glabella</i> Mettenius ex Kuhn	Pteridaceae	Forb		
9	<i>Pellaea glabella</i> ssp. <i>simplex</i>	<i>Pellaea glabella</i> Mettenius ex Kuhn subsp. <i>simplex</i> (Butters) Loeve & Loeve	Pteridaceae	Forb		
Not Assigned	<i>Pellaea truncata</i>	<i>Pellaea truncata</i> Goodding	Pteridaceae	Forb		
9	<i>Pellaea wrightiana</i>	<i>Pellaea wrightiana</i> Hooker	Pteridaceae	Forb		
Not Assigned	<i>Pennellia micrantha</i>	<i>Pennellia micrantha</i> (A. Gray) Nieuwland	Brassicaceae	Forb		
*	<i>Pennisetum glaucum</i>	<i>Setaria glauca</i> (L.) P. Beauvois	Poaceae	Graminoid		FACU

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*	<i>Pennisetum setaceum</i>	<i>Pennisetum setaceum</i> (Forskål) Chiovenda	Poaceae	Graminoid		
*	<i>Pennisetum villosum</i>	<i>Pennisetum villosum</i> R. Brown	Poaceae	Graminoid		
5	<i>Penstemon albidus</i>	<i>Penstemon albidus</i> Nuttall	Scrophulariaceae	Forb		
7	<i>Penstemon ambiguus</i>	<i>Leiostemon ambiguus</i> (Torrey) Greene	Scrophulariaceae	Forb		
5	<i>Penstemon angustifolius</i>	<i>Penstemon angustifolius</i> Nuttall ex Pursh	Scrophulariaceae	Forb		
5	<i>Penstemon angustifolius</i> var. <i>angustifolius</i>	<i>Penstemon angustifolius</i> Nuttall ex Pursh subsp. <i>angustifolius</i>	Scrophulariaceae	Forb		
5	<i>Penstemon angustifolius</i> var. <i>caudatus</i>	<i>Penstemon angustifolius</i> Nuttall ex Pursh subsp. <i>caudatus</i> (Heller) Keck	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon angustifolius</i> var. <i>vernalensis</i>	<i>Penstemon angustifolius</i> Nuttall var. <i>vernalensis</i> N. Holmgren	Scrophulariaceae	Forb		
5	<i>Penstemon arenicola</i>	<i>Penstemon arenicola</i> A. Nelson	Scrophulariaceae	Forb		
7	<i>Penstemon auriberbis</i>	<i>Penstemon auriberbis</i> Pennell	Scrophulariaceae	Forb		
6	<i>Penstemon barbatus</i>	<i>Penstemon barbatus</i> Torrey	Scrophulariaceae	Forb		
7	<i>Penstemon barbatus</i> ssp. <i>torreyi</i>	<i>Penstemon barbatus</i> (Cavanilles) Roth subsp. <i>torreyi</i> (Bentham in De Candolle) Keck	Scrophulariaceae	Forb		
7	<i>Penstemon barbatus</i> ssp. <i>trichander</i>	<i>Penstemon barbatus</i> Torrey subsp. <i>trichander</i> (A. Gray) Keck	Scrophulariaceae	Forb		
6	<i>Penstemon breviculus</i>	<i>Penstemon breviculus</i> (Keck) Nisbet & Jackson	Scrophulariaceae	Forb		
8	<i>Penstemon buckleyi</i>	<i>Penstemon buckleyi</i> Pennell	Scrophulariaceae	Forb		
7	<i>Penstemon caespitosus</i>	<i>Penstemon caespitosus</i> Nuttall ex A. Gray	Scrophulariaceae	Forb		
10	<i>Penstemon cobaea</i>	<i>Penstemon cobaea</i> Nuttall	Scrophulariaceae	Forb		
7	<i>Penstemon comarrhenus</i>	<i>Penstemon comarrhenus</i> A. Gray	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon crandallii</i> ssp. <i>atratus</i>	<i>Penstemon crandallii</i> A. Nelson subsp. <i>atratus</i> Keck	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon crandallii</i> ssp. <i>procumbens</i>	<i>Penstemon crandallii</i> A. Nelson subsp. <i>procumbens</i> (Greene) Keck	Scrophulariaceae	Forb		
8	<i>Penstemon cyanocaulis</i>	<i>Penstemon cyanocaulis</i> Payson	Scrophulariaceae	Forb		
7	<i>Penstemon cyathophorus</i>	<i>Penstemon cyathophorus</i> Rydberg	Scrophulariaceae	Forb		
9	<i>Penstemon debilis</i>	<i>Penstemon debilis</i> O'Kane & Anderson	Scrophulariaceae	Forb		
8	<i>Penstemon degeneri</i>	<i>Penstemon degeneri</i> Crosswhite	Scrophulariaceae	Forb		
7	<i>Penstemon eatonii</i>	<i>Penstemon eatonii</i> A. Gray	Scrophulariaceae	Forb		
6	<i>Penstemon eatonii</i> ssp. <i>eatonii</i>	<i>Penstemon eatonii</i> A. Gray subsp. <i>eatonii</i>	Scrophulariaceae	Forb		

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6	<i>Penstemon eatonii</i> ssp. <i>undosus</i>	<i>Penstemon eatonii</i> A. Gray subsp. <i>undosus</i> (Jones) Keck	Scrophulariaceae	Forb		
5	<i>Penstemon eriantherus</i>	<i>Penstemon eriantherus</i> Pursh	Scrophulariaceae	Forb		
5	<i>Penstemon fendleri</i>	<i>Penstemon fendleri</i> A. Gray	Scrophulariaceae	Forb		
9	<i>Penstemon fremontii</i>	<i>Penstemon fremontii</i> Torrey & Gray	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon fremontii</i> var. <i>fremontii</i>	<i>Penstemon fremontii</i> Torrey & Gray var. <i>fremontii</i>	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon fremontii</i> var. <i>glabrescens</i>	<i>Penstemon fremontii</i> Torrey & Gray var. <i>glabrescens</i> Dorn & Lichvar	Scrophulariaceae	Forb		
<b>10</b>	<i>Penstemon gibbensii</i>	<i>Penstemon gibbensii</i> Dorn	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon glaber</i> var. <i>brandegeei</i>	<i>Penstemon brandegei</i> (T. C. Porter) T. C. Porter ex Rydberg	Scrophulariaceae	Forb		
5	<i>Penstemon glaber</i> var. <i>glaber</i>	<i>Penstemon glaber</i> Pursh var. <i>glaber</i>	Scrophulariaceae	Forb		
5	<i>Penstemon gracilis</i>	<i>Penstemon gracilis</i> Nuttall	Scrophulariaceae	Forb	FACU-	FACU
8	<i>Penstemon grahamii</i>	<i>Penstemon grahamii</i> Keck ex E. Graham	Scrophulariaceae	Forb		
6	<i>Penstemon grandiflorus</i>	<i>Penstemon grandiflorus</i> Nuttall	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon griffinii</i>	<i>Penstemon griffinii</i> A. Nelson	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon hallii</i>	<i>Penstemon hallii</i> A. Gray	Scrophulariaceae	Forb		
<b>10</b>	<i>Penstemon harbourii</i>	<i>Penstemon harbourii</i> A. Gray	Scrophulariaceae	Forb		
6	<i>Penstemon harringtonii</i>	<i>Penstemon harringtonii</i> Penland	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon humilis</i>	<i>Penstemon humilis</i> Nuttall ex A. Gray	Scrophulariaceae	Forb		
6	<i>Penstemon jamesii</i>	<i>Penstemon jamesii</i> Bentham	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon laricifolius</i> ssp. <i>exilifolius</i>	<i>Penstemon laricifolius</i> Hooker & Arnott subsp. <i>exilifolius</i> (A. Nelson) Keck	Scrophulariaceae	Forb		
6	<i>Penstemon latus</i>	<i>Penstemon latus</i> Pennell	Scrophulariaceae	Forb		
6	<i>Penstemon linarioides</i>	<i>Penstemon linarioides</i> A. Gray	Scrophulariaceae	Forb		
5	<i>Penstemon mensarum</i>	<i>Penstemon mensarum</i> Pennell	Scrophulariaceae	Forb		
6	<i>Penstemon moffatii</i>	<i>Penstemon moffatii</i> Eastwood	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon nitidus</i>	<i>Penstemon nitidus</i> Douglas ex Bentham in DeCandolle	Scrophulariaceae	Forb		
<b>Not Assigned</b>	<i>Penstemon ophianthus</i>	<i>Penstemon ophianthus</i> Pennell	Scrophulariaceae	Forb		
6	<i>Penstemon osterhoutii</i>	<i>Penstemon osterhoutii</i> Pennell	Scrophulariaceae	Forb		

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6	<i>Penstemon pachyphyllus</i> var. <i>mucronatus</i>	<i>Penstemon pachyphyllus</i> A. Gray ex Rydberg var. <i>mucronatus</i> (N. Holmgren) Neese	Scrophulariaceae	Forb		
7	<i>Penstemon parviflorus</i>	<i>Penstemon parviflorus</i> Pennell	Scrophulariaceae	Forb		
9	<i>Penstemon penlandii</i>	<i>Penstemon penlandii</i> W. A. Weber	Scrophulariaceae	Forb		
6	<i>Penstemon procerus</i> var. <i>procerus</i>	<i>Penstemon confertus</i> Douglas in Lindley subsp. <i>procerus</i> (Douglas ex R. Graham) D. Clark	Scrophulariaceae	Forb		FAC*
Not Assigned	<i>Penstemon radicosus</i>	<i>Penstemon radicosus</i> A. Nelson	Scrophulariaceae	Forb		
6	<i>Penstemon retrorsus</i>	<i>Penstemon retrorsus</i> Payson ex Pennell	Scrophulariaceae	Forb		
Not Assigned	<i>Penstemon rostriflorus</i>	<i>Penstemon bridgesii</i> A. Gray	Scrophulariaceae	Forb		
		<i>Penstemon rostriflorus</i> Kellogg (see <i>Penstemon bridgesii</i> )	Scrophulariaceae	Forb		
7	<i>Penstemon rydbergii</i>	<i>Penstemon rydbergii</i> A. Nelson	Scrophulariaceae	Forb	NI	FAC
Not Assigned	<i>Penstemon saxosorum</i>	<i>Penstemon saxosorum</i> Pennell	Scrophulariaceae	Forb		
5	<i>Penstemon scariosus</i>	<i>Penstemon scariosus</i> Pennell	Scrophulariaceae	Forb		
7	<i>Penstemon scariosus</i> var. <i>albifluvis</i>	<i>Penstemon albifluvis</i> England	Scrophulariaceae	Forb		
Not Assigned	<i>Penstemon scariosus</i> var. <i>albifluvis</i>	<i>Penstemon scariosus</i> Pennell var. <i>albifluvis</i> (England) N. Holmgren	Scrophulariaceae	Forb		
Not Assigned	<i>Penstemon scariosus</i> var. <i>cyanomontanus</i>	<i>Penstemon scariosus</i> Pennell var. <i>cyanomontanus</i> Neese	Scrophulariaceae	Forb		
6	<i>Penstemon secundiflorus</i>	<i>Penstemon secundiflorus</i> Benthon in De Candolle	Scrophulariaceae	Forb		
5	<i>Penstemon strictus</i>	<i>Penstemon strictus</i> Benthon in De Candolle	Scrophulariaceae	Forb		
Not Assigned	<i>Penstemon unilateralis</i>	<i>Penstemon virgatus</i> A. Gray subsp. <i>asa-grayi</i> Crosswhite	Scrophulariaceae	Forb		FACU
7	<i>Penstemon utahensis</i>	<i>Penstemon utahensis</i> Eastwood	Scrophulariaceae	Forb		
7	<i>Penstemon virens</i>	<i>Penstemon virens</i> Pennell ex Rydberg	Scrophulariaceae	Forb		
5	<i>Penstemon watsonii</i>	<i>Penstemon watsonii</i> A. Gray	Scrophulariaceae	Forb		
7	<i>Penstemon whippleanus</i>	<i>Penstemon whippleanus</i> A. Gray	Scrophulariaceae	Forb	NI	FACU
		<i>Penstemon acaulis</i> L. Williams var. <i>yampaensis</i> (Penland) Neese	Scrophulariaceae	Forb		
6	<i>Penstemon yampaensis</i>	<i>Peraphyllum ramosissimum</i> Nuttall ex Torrey & Gray	Rosaceae	Shrub		
7	<i>Pericome caudata</i>	<i>Pericome caudata</i> A. Gray var. <i>caudata</i>	Asteraceae	Shrub		

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5	<i>Pericome caudata</i>	<i>Pericome caudata</i> A. Gray var. <i>glandulosa</i> (Goodman) Harrington	Asteraceae	Shrub		
5	<i>Perideridia gairdneri</i> ssp. <i>borealis</i>	<i>Perideridia gairdneri</i> (Hooker & Arnott) Mathias subsp. <i>borealis</i> Chuang & Constance	Apiaceae	Forb		FACU
8	<i>Petasites sagittatus</i>	<i>Petasites sagittatus</i> (Banks ex Pursh) A. Gray	Asteraceae	Forb	NI	OBL
6	<i>Petradoria pumila</i>	<i>Petradoria pumila</i> (Nuttall) Greene	Asteraceae	Forb		
8	<i>Petrophyton caespitosum</i>	<i>Petrophyton caespitosum</i> (Nuttall) Rydberg	Rosaceae	Shrub		
2	<i>Phacelia alba</i>	<i>Phacelia alba</i> Rydberg	Hydrophyllaceae	Forb		
Not Assigned	<i>Phacelia bakeri</i>	<i>Phacelia bakeri</i> (Brand) Macbride	Hydrophyllaceae	Forb		
Not Assigned	<i>Phacelia constancei</i>	<i>Phacelia constancei</i> Atwood	Hydrophyllaceae	Forb		
3	<i>Phacelia crenulata</i>	<i>Phacelia crenulata</i> Torrey	Hydrophyllaceae	Forb		
Not Assigned	<i>Phacelia demissa</i>	<i>Phacelia demissa</i> A. Gray	Hydrophyllaceae	Forb		
6	<i>Phacelia denticulata</i>	<i>Phacelia denticulata</i> Osterhout	Hydrophyllaceae	Forb		
8	<i>Phacelia formosula</i>	<i>Phacelia formosula</i> Osterhout	Hydrophyllaceae	Forb		
6	<i>Phacelia glandulosa</i>	<i>Phacelia glandulosa</i> Nuttall	Hydrophyllaceae	Forb		
5	<i>Phacelia hastata</i>	<i>Phacelia hastata</i> Douglas ex Lehmann	Hydrophyllaceae	Forb		
6	<i>Phacelia heterophylla</i>	<i>Phacelia heterophylla</i> Pursh	Hydrophyllaceae	Forb	NI	UPL
Not Assigned	<i>Phacelia incana</i>	<i>Phacelia incana</i> Brand	Hydrophyllaceae	Forb		
Not Assigned	<i>Phacelia integrifolia</i>	<i>Phacelia integrifolia</i> Torrey	Hydrophyllaceae	Forb		
4	<i>Phacelia ivesiana</i>	<i>Phacelia ivesiana</i> Torrey	Hydrophyllaceae	Forb		
8	<i>Phacelia scopolina</i> var. <i>submutica</i>	<i>Phacelia submutica</i> J. T. Howell	Hydrophyllaceae	Forb		
6	<i>Phacelia sericea</i>	<i>Phacelia sericea</i> (R. Graham) A. Gray	Hydrophyllaceae	Forb		
Not Assigned	<i>Phacelia sericea</i> ssp. <i>ciliosa</i>	<i>Phacelia sericea</i> (R. Graham) A. Gray subsp. <i>ciliosa</i> (Rydberg) G. W. Gillett	Hydrophyllaceae	Forb		
5	<i>Phacelia sericea</i> ssp. <i>sericea</i>	<i>Phacelia sericea</i> (R. Graham) A. Gray subsp. <i>sericea</i>	Hydrophyllaceae	Forb		
7	<i>Phacelia splendens</i>	<i>Phacelia splendens</i> Eastwood	Hydrophyllaceae	Forb		
Not Assigned	<i>Phacelia tanacetifolia</i>	<i>Phacelia tanacetifolia</i> Bentham	Hydrophyllaceae	Forb		
*	<i>Phalaris arundinacea</i>	<i>Phalaroides arundinacea</i> (L.) Rauschert	Poaceae	Graminoid	FACW+	OBL
*	<i>Phalaris canariensis</i>	<i>Phalaris canariensis</i> L.	Poaceae	Graminoid	FACU	FACU
*	<i>Phalaris caroliniana</i>	<i>Phalaris caroliniana</i> Walter	Poaceae	Graminoid	FACW	FACW
*	<i>Phalaris minor</i>	<i>Phalaris minor</i> Retzius	Poaceae	Graminoid		
Not Assigned	<i>Phegopteris connectilis</i>	<i>Phegopteris connectilis</i> (Michaux) Watt	Thelypteridaceae	Forb	NO	NO

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7	<i>Philadelphus microphyllus</i>	<i>Philadelphus microphyllus</i> A. Gray	Hydrangeaceae	Shrub		
9	<i>Phippsia algida</i>	<i>Phippsia algida</i> (Phipps) R. Brown	Poaceae	Graminoid	NI	OBL
6	<i>Phleum alpinum</i>	<i>Phleum commutatum</i> Gaudin	Poaceae	Graminoid	NI	FAC
*	<i>Phleum pratense</i>	<i>Phleum pratense</i> L.	Poaceae	Graminoid	FACU	FACU
6	<i>Phlox andicola</i>	<i>Phlox andicola</i> (Nuttall ex Torrey & Gray) E. Nelson	Polemoniaceae	Forb		
6	<i>Phlox austromontana</i>	<i>Phlox austromontana</i> Coville	Polemoniaceae	Forb		
4	<i>Phlox caryophylla</i>	<i>Phlox caryophylla</i> Wherry	Polemoniaceae	Shrub		
9	<i>Phlox condensata</i>	<i>Phlox condensata</i> (A. Gray) E. Nelson	Polemoniaceae	Forb		
Not Assigned	<i>Phlox gracilis</i> ssp. <i>humilis</i>	<i>Microsteris gracilis</i> (Douglas ex Hooker) Greene subsp. <i>humilis</i> (Greene) V. Grant	Polemoniaceae	Forb	UPL	UPL
5	<i>Phlox hoodii</i>	<i>Phlox hoodii</i> Richardson	Polemoniaceae	Forb		
6	<i>Phlox hoodii</i> ssp. <i>muscoides</i>	<i>Phlox bryoides</i> Nuttall <i>Phlox muscoides</i> Nuttall	Polemoniaceae	Forb		
6	<i>Phlox longifolia</i>	<i>Phlox longifolia</i> Nuttall	Polemoniaceae	Forb		
5	<i>Phlox multiflora</i>	<i>Phlox multiflora</i> A. Nelson	Polemoniaceae	Forb		
9	<i>Phlox pulvinata</i>	<i>Phlox sibirica</i> L. subsp. <i>pulvinata</i> (Wherry) W. A. Weber	Polemoniaceae	Forb		
5	<i>Phoradendron juniperinum</i>	<i>Phoradendron juniperinum</i> Engelmann	Viscaceae	Shrub		
3	<i>Phragmites australis</i>	<i>Phragmites australis</i> (Cavanilles) Trinii ex Steudel	Poaceae	Shrub	FACW	FACW+
4	<i>Phyla cuneifolia</i>	<i>Phyla cuneifolia</i> (Torrey) Greene	Verbenaceae	Forb	FAC	NI
1	<i>Phyla lanceolata</i>	<i>Phyla lanceolata</i> (Michaux) Greene	Verbenaceae	Vine, Forb/herb	OBL	OBL
4	<i>Physalis hederifolia</i>	<i>Physalis hederifolia</i> A. Gray	Solanaceae	Forb		
5	<i>Physalis hederifolia</i> var. <i>comata</i>	<i>Physalis hederifolia</i> A. Gray var. <i>comata</i> (Rydberg) Waterfall	Solanaceae	Forb		
5	<i>Physalis hederifolia</i> var. <i>fendleri</i>	<i>Physalis hederifolia</i> A. Gray var. <i>cordifolia</i> (A. Gray) Waterfall	Solanaceae	Forb		
5	<i>Physalis heterophylla</i>	<i>Physalis heterophylla</i> Nees	Solanaceae	Forb		
5	<i>Physalis hispida</i>	<i>Physalis pumila</i> Nuttall subsp. <i>hispida</i> (Waterfall) Hinton	Solanaceae	Forb		
*	<i>Physalis pubescens</i> var. <i>integrifolia</i>	<i>Physalis pruinosa</i> L.	Solanaceae	Forb	FAC	

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4	<i>Physalis subulata</i> var. <i>neomexicana</i>	<i>Physalis foetens</i> Poiret var. <i>neomexicana</i> (Rydberg) Waterfall	Solanaceae	Forb		
4	<i>Physalis virginiana</i>	<i>Physalis virginiana</i> P. Miller	Solanaceae	Forb		
6	<i>Physaria acutifolia</i>	<i>Physaria acutifolia</i> Rydberg	Brassicaceae	Forb		
7	<i>Physaria alpina</i>	<i>Physaria alpina</i> Rollins	Brassicaceae	Forb		
4	<i>Physaria bellii</i>	<i>Physaria bellii</i> Mulligan	Brassicaceae	Forb		
6	<i>Physaria floribunda</i>	<i>Physaria floribunda</i> Rydberg	Brassicaceae	Forb		
6	<i>Physaria floribunda</i> var. <i>osterhoutii</i>	<i>Physaria osterhoutii</i> Payson	Brassicaceae	Forb		
6	<i>Physaria obcordata</i>	<i>Physaria obcordata</i> Rollins	Brassicaceae	Forb		
7	<i>Physaria rollinsii</i>	<i>Physaria rollinsii</i> Mulligan	Brassicaceae	Forb		
6	<i>Physaria vitulifera</i>	<i>Physaria vitulifera</i> Rydberg	Brassicaceae	Forb		
Not Assigned	<i>Physocarpus alternans</i>	<i>Physocarpus alternans</i> (Jones) J. T. Howell	Rosaceae	Shrub		
7	<i>Physocarpus monogynus</i>	<i>Physocarpus monogynus</i> (Torrey) Coulter	Rosaceae	Shrub	FAC	FACU
8	<i>Physocarpus opulifolius</i>	<i>Physocarpus opulifolius</i> (L.) Maximovicz	Rosaceae	Shrub	FACU	FACU
5	<i>Picea engelmannii</i>	<i>Picea engelmannii</i> Parry ex Engelmann	Pinaceae	Tree	NI	FACU-*
6	<i>Picea pungens</i>	<i>Picea pungens</i> Engelmann	Pinaceae	Tree	NI	FAC-
2	<i>Picradeniopsis oppositifolia</i>	<i>Picradeniopsis oppositifolia</i> (Nuttall) Rydberg	Asteraceae	Forb		
4	<i>Picradeniopsis woodhousei</i>	<i>Picradeniopsis woodhousei</i> (A. Gray) Rydberg	Asteraceae	Forb		
6	<i>Picrothamnus desertorum</i>	<i>Picrothamnus desertorum</i> Nuttall	Asteraceae	Shrub		
9	<i>Pinus aristata</i>	<i>Pinus aristata</i> Engelmann	Pinaceae	Tree		
5	<i>Pinus contorta</i> var. <i>latifolia</i>	<i>Pinus contorta</i> Douglas ex Loudon var. <i>latifolia</i> Engelmann	Pinaceae	Tree	FACU-	FACU-*
6	<i>Pinus edulis</i>	<i>Pinus edulis</i> Engelmann	Pinaceae	Tree		
7	<i>Pinus flexilis</i>	<i>Pinus flexilis</i> James	Pinaceae	Tree		
5	<i>Pinus ponderosa</i> var. <i>scopulorum</i>	<i>Pinus ponderosa</i> Douglas ex P. & C. Lawson subsp. <i>scopulorum</i> (S. Watson) W. A. Weber	Pinaceae	Tree	FACU-	FACU-*
7	<i>Pinus strobus</i>	<i>Pinus strobus</i> Engelmann	Pinaceae	Tree		
10	<i>Piperia unalascensis</i>	<i>Piperia unalascensis</i> (Sprengel) Rydberg	Orchidaceae	Forb	NI	FACU
Not Assigned	<i>Piptatherum exiguum</i>	<i>Oryzopsis exigua</i> Thurber	Poaceae	Graminoid		
7	<i>Piptatherum micranthum</i>	<i>Piptatherum micranthum</i> (Trinius & Ruprecht) Barkworth	Poaceae	Graminoid		
Not Assigned	<i>Piptatherum pungens</i>	<i>Oryzopsis pungens</i> (Torrey ex Sprengel) A. S. Hitchcock	Poaceae	Graminoid		

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3	<i>Plagiobothrys scouleri</i>	<i>Plagiobothrys scouleri</i> (Hooker & Arnott) I. M. Johnston subsp. <i>penicillata</i> (Greene) Loeve	Boraginaceae	Forb	NI	OBL
Not Assigned	<i>Plantago elongata</i>	<i>Plantago elongata</i> Pursh	Plantaginaceae	Forb	FAC	FACW
5	<i>Plantago eriopoda</i>	<i>Plantago eriopoda</i> Torrey	Plantaginaceae	Forb	FAC	FAC+
*	<i>Plantago lanceolata</i>	<i>Plantago lanceolata</i> L.	Plantaginaceae	Forb	FAC	FACU
*	<i>Plantago major</i>	<i>Plantago major</i> L.	Plantaginaceae	Forb	FAC	FAC
2	<i>Plantago patagonica</i>	<i>Plantago patagonica</i> Jacquin	Plantaginaceae	Forb	UPL	UPL
5	<i>Plantago tweedyi</i>	<i>Plantago tweedyi</i> A. Gray	Plantaginaceae	Forb		
8	<i>Platanthera dilatata</i> var. <i>albiflora</i>	<i>Limnorchis dilatata</i> (Pursh) Rydberg subsp. <i>albiflora</i> (Chamisso) Loeve & Simon	Orchidaceae	Forb		FACW
7	<i>Platanthera hyperborea</i> var. <i>hyperborea</i>	<i>Limnorchis hyperborea</i> (L.) Rydberg	Orchidaceae	Forb	FACW	FACW
10	<i>Platanthera obtusata</i>	<i>Lysiella obtusata</i> (Banks ex Pursh) Britton & Rydberg	Orchidaceae	Forb	NI	FACW
9	<i>Platanthera sparsiflora</i> var. <i>ensifolia</i>	<i>Limnorchis ensifolia</i> Rydberg	Orchidaceae	Forb		FACW
8	<i>Platanthera stricta</i>	<i>Limnorchis stricta</i> (Lindley) Rydberg	Orchidaceae	Forb	NI	FACW
10	<i>Platanthera zothecina</i>	<i>Limnorchis zothecina</i> (Higgins & Welsh) W. A. Weber	Orchidaceae	Forb		
6	<i>Platyschkuhria integrifolia</i> var. <i>oblongifolia</i>	<i>Platyschkuhria integrifolia</i> (A. Gray) Rydberg var. <i>oblongifolia</i> (A. Gray) Ellison	Asteraceae	Forb		
6	<i>Pleuraphis jamesii</i>	<i>Hilaria jamesii</i> (Torrey) Bentham	Poaceae	Graminoid		
4	<i>Poa abbreviata</i> ssp. <i>pattersonii</i>	<i>Poa abbreviata</i> R. Brown subsp. <i>pattersonii</i> (Vasey) Loeve et al.	Poaceae	Graminoid	NI	FAC+
7	<i>Poa alpina</i>	<i>Poa alpina</i> L.	Poaceae	Graminoid	NI	FACU*
*	<i>Poa annua</i>	<i>Poa annua</i> L.	Poaceae	Graminoid	FACU	FAC
7	<i>Poa arctica</i>	<i>Poa arctica</i> R. Brown	Poaceae	Graminoid	NI	FACU
7	<i>Poa arctica</i> ssp. <i>aperta</i>	<i>Poa arctica</i> R. Brown subsp. <i>aperta</i> (Scribnér & Merrill) Soreng	Poaceae	Graminoid		FACU
5	<i>Poa arida</i>	<i>Poa arida</i> Vasey	Poaceae	Graminoid	FAC	UPL
		<i>Poa glauca</i> Scribnér & Williams	Poaceae	Graminoid	FACW	FACU*
6	<i>Poa bigelovii</i>	<i>Poa bigelovii</i> Vasey & Scribnér	Poaceae	Graminoid		
*	<i>Poa bulbosa</i>	<i>Poa bulbosa</i> L.	Poaceae	Graminoid		
*	<i>Poa compressa</i>	<i>Poa compressa</i> L.	Poaceae	Graminoid	FACU	FACU

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7	Poa cusickii	Poa cusickii Vasey	Poaceae	Graminoid		
<b>Not Assigned</b>	Poa cusickii ssp. cusickii	Poa cusickii Vasey subsp. cusickii	Poaceae	Graminoid		
7	Poa cusickii ssp. epilis	Poa cusickii Vasey subsp. epilis (Scribnér) W. A. Weber	Poaceae	Graminoid		
6	Poa cusickii ssp. pallida	Poa cusickii Vasey subsp. pallida Soreng	Poaceae	Graminoid		
7	Poa fendleriana	Poa fendleriana (Steudel) Vasey	Poaceae	Graminoid	UPL	UPL
7	Poa glauca ssp. rupicola	Poa glauca M. Vahl subsp. rupicola (Nash) W. A. Weber	Poaceae	Graminoid		
8	Poa leptocoma	Poa leptocoma Trinius	Poaceae	Graminoid	NI	FACW
8	Poa lettermanii	Poa lettermanii Vasey	Poaceae	Graminoid		
6	Poa nemoralis ssp. interior	Poa nemoralis L. subsp. interior (Rydberg) W. A. Weber	Poaceae	Graminoid	FAC-	FAC-
7	Poa nervosa	Poa nervosa (Hooker) Vasey	Poaceae	Graminoid	NI	FACU
<b>Not Assigned</b>	Poa occidentalis	Poa occidentalis Vasey	Poaceae	Graminoid		
6	Poa palustris	Poa palustris L.	Poaceae	Graminoid	FACU	FACW
*	Poa pratensis	Poa pratensis L.	Poaceae	Graminoid	FACU	FACU
4	Poa pratensis ssp. pratensis	Poa agassizensis Boivin & D. Loeve	Poaceae	Graminoid		
8	Poa reflexa	Poa reflexa Vasey & Scribnér	Poaceae	Graminoid		FACW
6	Poa secunda	Poa juncifolia Scribnér	Poaceae	Graminoid	FAC-	FAC
		Poa secunda J. Presl in K. Presl	Poaceae	Graminoid	NI	UPL
<b>Not Assigned</b>	Poa stenantha	Poa macroclada Rydberg	Poaceae	Graminoid	NI	FAC
<b>Not Assigned</b>	Poa tracyi	Poa tracyi Vasey	Poaceae	Graminoid		
*	Poa trivialis	Poa trivialis L.	Poaceae	Graminoid	FACW	FACW
8	Podistera eastwoodiae	Podistera eastwoodiae (Coulter & Rose) Mathias & Constance	Apiaceae	Forb		
1	Polanisia dodecandra	Polanisia dodecandra (L.) De Candolle	Capparaceae	Forb	UPL	FACU
6	Polanisia jamesii	Polanisia jamesii (Torrey & Gray) Iltis	Capparaceae	Forb		
<b>Not Assigned</b>	Polemonium brandegeei	Polemonium brandegeei (A. Gray) Greene	Polemoniaceae	Forb		
10	Polemonium confertum	Polemonium confertum A. Gray	Polemoniaceae	Forb		
7	Polemonium foliosissimum	Polemonium foliosissimum (A. Gray) A. Gray	Polemoniaceae	Forb	NI	FACU
8	Polemonium occidentale ssp. occidentale	Polemonium caeruleum L. subsp. amygdalinum (Wherry) Munz	Polemoniaceae	Forb	NI	FACW-

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8	Polemonium pulcherrimum ssp. delicatum	Polemonium pulcherrimum Hooker subsp. delicatum (Rydb erg) Brand	Polemoniaceae	Forb		
8	Polemonium viscosum	Polemonium viscosum Nuttall	Polemoniaceae	Forb		
6	Poliomintha incana	Poliomintha incana (Torrey) A. Gray	Lamiaceae	Shrub		
6	Polygala alba	Polygala alba Nuttall	Polygalaceae	Forb		
4	Polygala subspinosa	Polygala subspinosa S. Watson	Polygalaceae	Shrub		
*	Polygonum achoreum	Polygonum erectum L. subsp. achoreum (S. F. Blake) Loeve & Loeve	Polygonaceae	Forb	FAC	NI
4	Polygonum amphibium var. emersum	Persicaria amphibia (L.) S. Gray	Polygonaceae	Forb	OBL	OBL
		Persicaria coccinea (Mühlenberg ex Willdenow) Greene	Polygonaceae	Forb		
*	Polygonum arenastrum	Polygonum arenastrum Boreau	Polygonaceae	Forb	NI	
*	Polygonum argyrocoleon	Polygonum argyrocoleon Steudel ex Kuntze	Polygonaceae	Forb	NI	FAC
*	Polygonum aubertii	Fallopia aubertii (Henry) Holub	Polygonaceae	Vine, Subshrub		
*	Polygonum aviculare	Polygonum aviculare L. var. aviculare	Polygonaceae	Forb		UPL
*	Polygonum bellardii	Polygonum aviculare L. var. angustissimum Meissner	Polygonaceae	Forb	FACW	
7	Polygonum bistortoides	Bistorta bistortoides (Pursh) Small	Polygonaceae	Forb	NI	FAC*
*	Polygonum convolvulus var. convolvulus	Fallopia convolvulus (L.) Loeve	Polygonaceae	Vine, Forb/herb	FACU	FACU
*	Polygonum cuspidatum	Reynoutria japonica Houttuyn	Polygonaceae	Forb	FACU	NI
3	Polygonum douglasii	Polygonum douglasii Greene	Polygonaceae	Forb	FACU-	UPL
4	Polygonum douglasii ssp. engelmannii	Polygonum engelmannii Greene	Polygonaceae	Forb		
*	Polygonum hydropiper	Persicaria hydropiper (L.) Opiz	Polygonaceae	Forb	OBL	OBL
*	Polygonum lapathifolium	Persicaria lapathifolia (L.) S. Gray	Polygonaceae	Forb	OBL	OBL
7	Polygonum minimum	Polygonum minimum S. Watson	Polygonaceae	Forb	NI	FAC
4	Polygonum pensylvanicum	Persicaria bicornis (Rafinesque) Nieuwland	Polygonaceae	Forb	FACW+	OBL
		Persicaria pensylvanica (L.) Gomez	Polygonaceae	Forb	FACW+	OBL
*	Polygonum persicaria	Persicaria maculata (L.) S. Gray	Polygonaceae	Forb	OBL	FACW
Not Assigned	Polygonum polygaloides ssp. kelloggii	Polygonum polygaloides Meissner subsp. kelloggii (Greene) Hickman	Polygonaceae	Forb	NI	FACU
*	Polygonum punctatum var. punctatum	Persicaria punctata (Elliott) Small	Polygonaceae	Forb	OBL	OBL
2	Polygonum ramosissimum	Polygonum ramosissimum Michaux	Polygonaceae	Forb	FAC	FACU

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<b>Not Assigned</b>	Polygonum sagittatum	Truellum sagittatum (L.) Sojak	Polygonaceae	Vine, Forb	OBL	OBL
*	Polygonum scandens var. scandens	Fallopia scandens (L.) Holub	Polygonaceae	Vine, Forb/herb	FACU	FACU
<b>8</b>	Polygonum viviparum	Bistorta vivipara (L.) S. Gray	Polygonaceae	Forb	NI	FAC+
<b>10</b>	Polypodium hesperium	Polypodium hesperium Maxon	Polypodiaceae	Forb		
<b>9</b>	Polypodium saximontanum	Polypodium saximontanum Windham	Polypodiaceae	Forb		
<b>Not Assigned</b>	Polypogon elongatus	Polypogon elongatus Humboldt, Bonpland, & Kunth	Poaceae	Graminoid	NI	NI
*	Polypogon interruptus	Polypogon interruptus Humboldt, Bonpland & Kunth	Poaceae	Graminoid	OBL	NI
*	Polypogon monspeliensis	Polypogon monspeliensis (L.) Desfontaines	Poaceae	Graminoid	OBL	FACW+
*	Polypogon viridis	Polypogon viridis (Gouan) Breistroffer	Poaceae	Graminoid	OBL	
<b>10</b>	Polystichum lonchitis	Polystichum lonchitis (L.) Roth	Dryopteridaceae	Forb	NI	UPL
<b>10</b>	Polystichum scopolinum	Polystichum scopolinum (D. C. Eaton) Maxon	Dryopteridaceae	Forb		
<b>5</b>	Populus ×acuminata	Populus acuminata Rydberg	Salicaceae	Tree	FAC	
<b>5</b>	Populus angustifolia	Populus angustifolia James	Salicaceae	Tree	FACW	FAC*
<b>6</b>	Populus balsamifera	Populus balsamifera L.	Salicaceae	Tree	FACW	FACW
<b>4</b>	Populus deltoides	Populus deltoides H. Marshall subsp. wislizenii (S. Watson) Eckenwalder	Salicaceae	Tree	FAC	FACW*
<b>3</b>	Populus deltoides ssp. monilifera	Populus deltoides H. Marshall subsp. monilifera (Aiton) Eckenwalder	Salicaceae	Tree	FAC	
<b>5</b>	Populus tremuloides	Populus tremuloides Michaux	Salicaceae	Tree	FAC	FAC
<b>Not Assigned</b>	Portulaca halimoides	Portulaca halimoides L.	Portulacaceae	Forb	NI	NI
*	Portulaca oleracea	Portulaca oleracea L.	Portulacaceae	Forb	FAC	FAC
<b>5</b>	Potamogeton alpinus	Potamogeton alpinus Balbis	Potamogetonaceae	Forb	OBL	OBL
<b>5</b>	Potamogeton amplifolius	Potamogeton amplifolius Tuckerman	Potamogetonaceae	Forb	OBL	OBL
*	Potamogeton crispus	Potamogeton crispus L.	Potamogetonaceae	Forb	OBL	OBL
<b>5</b>	Potamogeton diversifolius	Potamogeton diversifolius Rafinesque	Potamogetonaceae	Forb	OBL	OBL
<b>5</b>	Potamogeton epihydrus	Potamogeton epihydrus Rafinesque var. nuttallii (Chamisso & Schlechtendal) Fernald	Potamogetonaceae	Forb	OBL	OBL
<b>4</b>	Potamogeton foliosus	Potamogeton foliosus Rafinesque	Potamogetonaceae	Forb	OBL	OBL
<b>4</b>	Potamogeton gramineus	Potamogeton gramineus L.	Potamogetonaceae	Forb	OBL	OBL
<b>5</b>	Potamogeton illinoensis	Potamogeton illinoensis Morong	Potamogetonaceae	Forb	OBL	OBL
<b>4</b>	Potamogeton natans	Potamogeton natans L.	Potamogetonaceae	Forb	OBL	OBL

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5	Potamogeton nodosus	Potamogeton nodosus Poiret in Lamarck	Potamogetonaceae	Forb	OBL	OBL
5	Potamogeton praelongus	Potamogeton praelongus Wulfen	Potamogetonaceae	Forb	OBL	OBL
5	Potamogeton pusillus	Potamogeton pusillus L.	Potamogetonaceae	Forb	OBL	OBL
		Potamogeton pusillus L. var. pusillus	Potamogetonaceae	Forb	OBL	OBL
5	Potamogeton pusillus ssp. tenuissimus	Potamogeton pusillus L. var. tenuissimus Mertens & Koch in Rohling	Potamogetonaceae	Forb	OBL	OBL
5	Potamogeton richardsonii	Potamogeton perfoliatus L. subsp. richardsonii (Bennett) Hulten	Potamogetonaceae	Forb	OBL	OBL
5	Potentilla ambigens	Potentilla ambigens Greene	Rosaceae	Forb		
*	Potentilla anglica	Potentilla anglica Laicharding	Rosaceae	Forb		
*	Potentilla argentea	Potentilla argentea L.	Rosaceae	Forb	FACU	FACU
7	Potentilla arguta ssp. arguta	Drymocallis arguta (Pursh) Rydberg	Rosaceae	Forb	FACU	FACU
4	Potentilla biennis	Potentilla biennis Greene	Rosaceae	Forb	NI	FAC
6	Potentilla concinna	Potentilla concinna Richardson	Rosaceae	Forb	NI	NI
Not Assigned	Potentilla concinna var. bicrenata	Potentilla concinna Richardson var. bicrenata (Rydberg) Welsh & Johnston	Rosaceae	Forb		
Not Assigned	Potentilla concinna var. concinna	Potentilla concinna Richardson var. concinna	Rosaceae	Forb		
Not Assigned	Potentilla crinita	Potentilla crinita A. Gray	Rosaceae	Forb		
6	Potentilla diversifolia	Potentilla diversifolia Lehmann	Rosaceae	Forb	NI	FACU
4	Potentilla effusa	Potentilla effusa Douglas ex Lehmann	Rosaceae	Forb		
5	Potentilla fissa	Drymocallis fissa (Nuttall) Rydberg	Rosaceae	Forb		
Not Assigned	Potentilla glandulosa	Drymocallis glandulosa (Lindley) Rydberg	Rosaceae	Forb	NO	FACU
5	Potentilla gracilis	Potentilla gracilis Douglas	Rosaceae	Forb	NI	FAC-
Not Assigned	Potentilla gracilis var. flabelliformis	Potentilla flabelliformis Lehmann	Rosaceae	Forb		
5	Potentilla hippiana	Potentilla hippiana Lehmann	Rosaceae	Forb		
Not Assigned	Potentilla hookeriana	Potentilla hookeriana Lehmann	Rosaceae	Forb		
8	Potentilla nivea	Potentilla nivea L.	Rosaceae	Forb		
*	Potentilla norvegica	Potentilla norvegica L.	Rosaceae	Forb	FAC	FAC-
7	Potentilla ovina	Potentilla ovina Macoun	Rosaceae	Forb		
0	Potentilla paradoxa	Potentilla supina L. subsp. paradoxoa (Nuttall ex Torrey & Gray) Sojak	Rosaceae	Forb	FAC	OBL
6	Potentilla pensylvanica	Potentilla pensylvanica L.	Rosaceae	Forb		
7	Potentilla plattensis	Potentilla plattensis Nuttall ex Torrey & Gray	Rosaceae	Forb	NI	OBL

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5	Potentilla pulcherrima	Potentilla pulcherrima Lehmann	Rosaceae	Forb		
*	Potentilla recta	Potentilla recta L.	Rosaceae	Forb		
5	Potentilla rivalis	Potentilla rivalis Nuttall ex Torrey & Gray	Rosaceae	Forb	FACW+	OBL
Not Assigned	Potentilla rubricaulis	Potentilla rubricaulis Lehmann	Rosaceae	Forb		
7	Potentilla rupincola	Potentilla rupincola Osterhout	Rosaceae	Forb		
8	Potentilla subjugata	Potentilla subjugata Rydberg	Rosaceae	Forb		
Not Assigned	Potentilla subviscosa	Potentilla subviscosa Greene	Rosaceae	Forb		
8	Potentilla uniflora	Potentilla uniflora Ledebour	Rosaceae	Forb		
Not Assigned	Prenanthes exigua	Prenanthes exigua (A. Gray) Rydberg	Asteraceae	Forb		
Not Assigned	Prenanthes racemosa	Prenanthes racemosa Michaux	Asteraceae	Forb	FAC	FACU-
7	Primula angustifolia	Primula angustifolia Torrey	Primulaceae	Forb	NI	FACU-
10	Primula egaliksensis	Primula egaliksensis Wormskiold	Primulaceae	Forb	NO	FACW
9	Primula incana	Primula incana Jones	Primulaceae	Forb	NI	FACW
8	Primula parryi	Primula parryi A. Gray	Primulaceae	Forb	NI	FACW
8	Proatriplex pleiantha	Proatriplex pleiantha (W. A. Weber) Stutz & Chu	Chenopodiaceae	Forb		
1	Proboscidea louisianica	Proboscidea louisianica (P. Miller) Thellung	Pedaliaceae	Forb	FACU	UPL
8	Prosopis glandulosa	Prosopis glandulosa Torrey	Fabaceae	Shrub	NI	NI
4	Prunella vulgaris	Prunella vulgaris L.	Lamiaceae	Forb	FAC	FACU
6	Prunus americana	Prunus americana H. Marshall	Rosaceae	Shrub	UPL	FACU
5	Prunus angustifolia	Prunus angustifolia H. Marshall	Rosaceae	Shrub		
*	Prunus armeniaca	Armeniaca vulgaris Lamarck	Rosaceae	Tree		
Not Assigned	Prunus gracilis	Prunus gracilis Engelmann & Gray	Rosaceae	Shrub		
6	Prunus pensylvanica var. pensylvanica	Cerasus pensylvanica (L. f.) Loiseleur	Rosaceae	Shrub		FACU
10	Prunus pumila var. besseyi	Cerasus pumila (L.) Michaux subsp. besseyi (L. H. Bailey) W. A. Weber	Rosaceae	Shrub		
6	Prunus rivularis	Prunus rivularis Scheele	Rosaceae	Shrub		
4	Prunus virginiana var. melanocarpa	Padus virginiana (L.) P. Miller subsp. melanocarpa (A. Nelson) W. A. Weber	Rosaceae	Shrub	FACU	FACU
*	Psathyrostachys juncea	Psathyrostachys juncea (Fischer) Nevski	Poaceae	Graminoid	FAC	FACU
Not Assigned	Pseudelymus saxicola	Elymus saxicola Scribner & Smith	Poaceae	Graminoid		
6	Pseudocymopterus montanus	Pseudocymopterus montanus (A. Gray) Coulter & Rose	Apiaceae	Forb		

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<b>Not Assigned</b>	Pseudognaphalium canescens	Pseudognaphalium canescens (De Candolle) W. A. Weber	Asteraceae	Forb		FACU
*	Pseudognaphalium macounii	Pseudognaphalium viscosum (HBK) W. A. Weber	Asteraceae	Forb		
*	Pseudognaphalium stramineum	Pseudognaphalium stramineum (Humboldt, Bonpland & Kunth) W. A. Weber	Asteraceae	Forb		FAC
7	Pseudoroegneria spicata ssp. inermis	Pseudoroegneria spicata (Pursh) Loeve subsp. inermis (Scribner & Smith) Loeve	Poaceae	Graminoid		<b>FAC</b>
7	Pseudoroegneria spicata ssp. spicata	Pseudoroegneria spicata (Pursh) Loeve subsp. spicata	Poaceae	Graminoid	UPL	UPL
6	Pseudostellaria jamesiana	Pseudostellaria jamesiana (Torrey) Weber & Hartman	Caryophyllaceae	Forb		
5	Pseudotsuga menziesii	Pseudotsuga menziesii (Mirbel) Franco	Pinaceae	Tree	NI	NI
4	Psilostrophe bakeri	Psilostrophe bakeri Greene	Asteraceae	Forb		
*	Psilostrophe tagetina	Psilostrophe tagetina (Nuttall) Greene	Asteraceae	Forb		
5	Psoralidium lanceolatum	Psoralidium lanceolatum (Pursh) Rydberg	Fabaceae	Forb		
5	Psoralidium tenuiflorum	Psoralidium tenuiflorum (Pursh) Rydberg	Fabaceae	Forb		
7	Ptelea trifoliata	Ptelea trifoliata L.	Rutaceae	Shrub	UPL	FACU
5	Pteridium aquilinum var. pubescens	Pteridium aquilinum (L.) Kuhn subsp. lanuginosum (Bongard) Hulten	Dennstaedtiaceae	Forb	FACU	FACU
7	Pterospora andromedea	Pterospora andromedea Nuttall	Monotropaceae	Forb		
<b>Not Assigned</b>	Pteryxia hendersonii	Cymopterus longilobus (Rydberg) W. A. Weber	Apiaceae	Forb		
<b>Not Assigned</b>	Pteryxia petraea	Aletes petraeus (Jones) W. A. Weber	Apiaceae	Forb		
<b>Not Assigned</b>	Pteryxia terebinthina var. albiflora	Cymopterus terebinthinus (Hooker) Torrey & Gray var. calcareus (Jones) Cronquist	Apiaceae	Forb		
10	Ptilagrostis porteri	Ptilagrostis porteri (Rydberg) W. A. Weber	Poaceae	Graminoid		<b>OBL</b>
*	Puccinellia distans	Puccinellia distans (L.) Parlatoore	Poaceae	Graminoid	OBL	OBL
6	Puccinellia nuttalliana	Puccinellia airoides Watson & Coulter	Poaceae	Graminoid	OBL	OBL
7	Pulsatilla patens ssp. multifida	Pulsatilla patens (L.) P. Miller subsp. multifida (Pritzel) Zamels	Ranunculaceae	Forb		
6	Purshia stansburiana	Purshia stansburiana (Torrey) Henrickson	Rosaceae	Shrub		
6	Purshia tridentata	Purshia tridentata (Pursh) De Candolle	Rosaceae	Shrub		
8	Pyrola asarifolia ssp. asarifolia	Pyrola rotundifolia L. subsp. asarifolia (Michaux) Loeve	Pyrolaceae	Shrub	NI	<b>FACW</b>

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8	<i>Pyrola chlorantha</i>	<i>Pyrola chlorantha</i> Swartz	Pyrolaceae	Shrub	FACU	FACW
8	<i>Pyrola minor</i>	<i>Pyrola minor</i> L.	Pyrolaceae	Shrub	NI	UPL
8	<i>Pyrola picta</i>	<i>Pyrola picta</i> J. E. Smith	Pyrolaceae	Shrub		
6	<i>Pyrrocoma clementis</i>	<i>Pyrrocoma clementis</i> Rydberg	Asteraceae	Forb		
5	<i>Pyrrocoma crocea</i>	<i>Pyrrocoma crocea</i> (A. Gray) Greene	Asteraceae	Forb		
Not Assigned	<i>Pyrrocoma lanceolata</i>	<i>Pyrrocoma lanceolata</i> (Hooker) Greene	Asteraceae	Forb		FAC
Not Assigned	<i>Pyrrocoma uniflora</i>	<i>Pyrrocoma uniflora</i> (Hooker) Greene	Asteraceae	Forb		FAC
6	<i>Quercus ×pauciloba</i>	<i>Quercus undulata</i> Torrey	Fagaceae	Shrub		
Not Assigned	<i>Quercus ajoensis</i>	<i>Quercus ajoensis</i> C. J. Muller	Fagaceae	Shrub		
5	<i>Quercus gambelii</i>	<i>Quercus gambelii</i> Nuttall	Fagaceae	Shrub		
7	<i>Quercus grisea</i>	<i>Quercus grisea</i> Liebmann	Fagaceae	Shrub		
5	<i>Quercus havardii</i> var. <i>tuckeri</i>	<i>Quercus havardii</i> Rydberg var. <i>tuckeri</i> Welsh	Fagaceae	Shrub		
6	<i>Quercus turbinella</i>	<i>Quercus turbinella</i> Greene	Fagaceae	Shrub		
3	<i>Quinquelobata</i>	<i>Quinquelobata</i> (Torrey) Rafinesque	Solanaceae	Forb		
Not Assigned	<i>Ranunculus abortivus</i>	<i>Ranunculus abortivus</i> L. subsp. <i>acrolasius</i> (Fernald) Kapoor & Loeve	Ranunculaceae	Forb	FACW	NI
Not Assigned	<i>Ranunculus aceriformis</i>	<i>Ranunculus aceriformis</i> A. Gray	Ranunculaceae	Forb	NI	FACW+
8	<i>Ranunculus adoneus</i>	<i>Ranunculus adoneus</i> A. Gray	Ranunculaceae	Forb	NI	FACW+
6	<i>Ranunculus alismifolius</i> var. <i>montanus</i>	<i>Ranunculus alismifolius</i> Geyer ex Bentham var. <i>montanus</i> S. Watson	Ranunculaceae	Forb		FACW
8	<i>Ranunculus cardiophyllus</i>	<i>Ranunculus cardiophyllus</i> Hooker	Ranunculaceae	Forb	FACW	FACW+
4	<i>Ranunculus cymbalaria</i>	<i>Halerpestes cymbalaria</i> (Pursh) Greene subsp. <i>saximontana</i> (Fernald) Moldenke	Ranunculaceae	Forb	OBL	OBL
7	<i>Ranunculus eschscholtzii</i>	<i>Ranunculus eschscholtzii</i> Schlechtendal	Ranunculaceae	Forb	NI	FACW
5	<i>Ranunculus flammula</i> var. <i>flammula</i>	<i>Ranunculus reptans</i> L. var. <i>ovalis</i> Torrey & Gray	Ranunculaceae	Forb		FACW
5	<i>Ranunculus glaberrimus</i> var. <i>ellipticus</i>	<i>Ranunculus glaberrimus</i> Hooker var. <i>ellipticus</i> Greene	Ranunculaceae	Forb	FAC	FACU
6	<i>Ranunculus gmelinii</i>	<i>Ranunculus gmelinii</i> De Candolle var. <i>hookeri</i> (D. Don) L. Benson	Ranunculaceae	Forb	FACW	FACW+
8	<i>Ranunculus hyperboreus</i>	<i>Ranunculus hyperboreus</i> Rottboel subsp. <i>intertextus</i> (Greene) Kapoor & Loeve	Ranunculaceae	Forb	NI	OBL
7	<i>Ranunculus inamoenus</i>	<i>Ranunculus inamoenus</i> Greene	Ranunculaceae	Forb	FACW	FACW-
Not Assigned	<i>Ranunculus jovis</i>	<i>Ranunculus jovis</i> A. Nelson	Ranunculaceae	Forb	NO	FACW

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9	Ranunculus karelinii	Ranunculus gelidus Karlin & Kirilow subsp. grayi (Britton) Hulten	Ranunculaceae	Forb	NO	UPL*
10	Ranunculus longirostris	Batrachium circinatum (Sibthorp) E. Fries subsp. subrigidum (Drew) Loeve & Loeve	Ranunculaceae	Forb	OBL	OBL
		Batrachium longirostre (Godron) F. Schultz	Ranunculaceae	Forb	OBL	OBL
10	Ranunculus macauleyi	Ranunculus macauleyi A. Gray	Ranunculaceae	Forb	NO	FACW
7	Ranunculus macounii	Ranunculus macounii Britton	Ranunculaceae	Forb	OBL	OBL
7	Ranunculus pedatifidus	Ranunculus pedatifidus J. E. Smith	Ranunculaceae	Forb	NI	FACW
9	Ranunculus pygmaeus	Ranunculus pygmaeus Wahlberg	Ranunculaceae	Forb	NI	FACW
<b>Not Assigned</b>	Ranunculus ranunculinus	Cyrtorhyncha ranunculina Nuttall ex Torrey & Gray	Ranunculaceae	Forb	NI	FACU
*	Ranunculus repens	Ranunculus repens L.	Ranunculaceae	Forb	NI	FACW-
1	Ranunculus sceleratus var. sceleratus	Hecatonia scelerata (L.) Fourreau	Ranunculaceae	Forb	OBL	OBL
10	Ranunculus trichophyllus var. trichophyllus	Batrachium trichophyllum (Chaix) van den Bosch	Ranunculaceae	Forb	OBL	OBL
6	Ranunculus uncinatus	Ranunculus uncinatus D. Don	Ranunculaceae	Forb	NI	FACU
<b>Not Assigned</b>	Ranunculus uncinatus var. earlei	Ranunculus uncinatus D. Don var. earlei (Greene) L. Benson	Ranunculaceae	Forb		
<b>Not Assigned</b>	Ranunculus uncinatus var. parviflorus	Ranunculus uncinatus D. Don var. parviflorus (Torrey) L. Benson	Ranunculaceae	Forb		NI
*	Raphanus raphanistrum	Raphanus raphanistrum L.	Brassicaceae	Forb		
*	Raphanus sativus	Raphanus sativus L.	Brassicaceae	Forb	NI	NI
4	Ratibida columnifera	Ratibida columnifera (Nuttall) Wooton & Standley	Asteraceae	Forb		
4	Ratibida tagetes	Ratibida tagetes (James) Barnhart	Asteraceae	Forb		
<b>Not Assigned</b>	Rayjacksonia annua	Rayjacksonia annua (Rydberg) Hartman & Lane	Asteraceae	Forb		
8	Redfieldia flexuosa	Redfieldia flexuosa (Thurber ex A. Gray) Vasey	Poaceae	Graminoid		
*	Reseda lutea	Reseda lutea L.	Resedaceae	Forb	NI	NI
*	Reseda luteola	Reseda luteola L.	Resedaceae	Forb		
10	Reverchonia arenaria	Reverchonia arenaria A. Gray	Euphorbiaceae	Forb		
*	Rhamnus cathartica	Rhamnus cathartica L.	Rhamnaceae	Shrub	FACU	NI
7	Rhamnus smithii	Rhamnus smithii Greene	Rhamnaceae	Shrub		
*	Rheum rhabarbarum	Rheum rhabonticum L.	Polygonaceae	Forb		

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6	Rhinanthus minor ssp. minor	Rhinanthus minor L. subsp. borealis (Sterneck) Loeve	Scrophulariaceae	Forb	NO	FACU-
8	Rhodiola integrifolia	Rhodiola integrifolia Rafinesque	Crassulaceae	Forb		FACU
8	Rhodiola rhodantha	Clementsia rhodantha (A. Gray) Rose	Crassulaceae	Forb		FACW+
8	Rhododendron albiflorum	Azaleastrum albiflorum (Hooker) Rydberg	Ericaceae	Shrub	NI	FACU
6	Rhus glabra	Rhus glabra L.	Anacardiaceae	Shrub		
5	Rhus trilobata var. pilosissima	Rhus aromatica Aiton subsp. pilosissima (Engelmann) W. A. Weber	Anacardiaceae	Shrub	NI	
5	Rhus trilobata var. trilobata	Rhus aromatica Aiton subsp. trilobata (Nuttall ex Torrey & Gray) W. A. Weber	Anacardiaceae	Shrub	NI	NI
7	Ribes americanum	Ribes americanum P. Miller	Grossulariaceae	Shrub	FACW	NI
6	Ribes aureum	Ribes aureum Pursh	Grossulariaceae	Shrub	NI	FACW
*	Ribes aureum var. villosum	Ribes odoratum Wendland	Grossulariaceae	Shrub	FAC	NI
6	Ribes cereum	Ribes cereum Douglas	Grossulariaceae	Shrub	UPL	NI
Not Assigned	Ribes divaricatum	Ribes divaricatum Douglas	Grossulariaceae	Shrub		
5	Ribes inerme	Ribes inerme Rydberg	Grossulariaceae	Shrub	NI	FAC+
		Ribes inerme Rydberg fma incisum W. A. Weber	Grossulariaceae	Shrub	NI	FAC+
7	Ribes lacustre	Ribes lacustre (Persoon) Poiret	Grossulariaceae	Shrub	NI	FACW
Not Assigned	Ribes laxiflorum	Ribes coloradense Coville	Grossulariaceae	Shrub		
7	Ribes leptanthum	Ribes leptanthum A. Gray	Grossulariaceae	Shrub		
6	Ribes montigenum	Ribes montigenum McClatchie	Grossulariaceae	Shrub		
7	Ribes viscosissimum	Ribes viscosissimum Pursh	Grossulariaceae	Shrub	NO	NI
7	Ribes wolfii	Ribes wolfii Rothrock	Grossulariaceae	Shrub	NI	FAC
4	Robinia neomexicana	Robinia neomexicana A. Gray	Fabaceae	Shrub		
*	Robinia pseudoacacia	Robinia pseudo-acacia L.	Fabaceae	Tree	UPL	FACU
Not Assigned	Rorippa alpina	Rorippa curvipes Greene var. alpina (S. Watson) Stuckey	Brassicaceae	Forb	NI	
7	Rorippa coloradensis	Rorippa coloradensis Stuckey	Brassicaceae	Forb	NO	OBL
5	Rorippa curvipes	Rorippa curvipes Greene var. curvipes	Brassicaceae	Forb	NI	OBL
*	Rorippa nasturtium-aquaticum	Nasturtium officinale R. Brown	Brassicaceae	Forb	OBL	OBL
Not Assigned	Rorippa palustris	Rorippa palustris (L.) Besser	Brassicaceae	Forb	OBL	OBL
Not Assigned	Rorippa palustris ssp. fernaldiana	Rorippa palustris (L.) Besser var. glabra (O. E. Schulz) Stuckey	Brassicaceae	Forb	OBL	

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<b>Not Assigned</b>	Rorippa palustris ssp. hispida	Rorippa palustris (L.) Besser subsp. hispida (Desvaux) Jonsell	Brassicaceae	Forb	OBL	
<b>4</b>	Rorippa sinuata	Rorippa sinuata (Nuttall in Torrey & Gray) A. S. Hitchcock	Brassicaceae	Forb	FACW	FACW
<b>4</b>	Rorippa sphaerocarpa	Rorippa sphaerocarpa (A. Gray) Britton	Brassicaceae	Forb	NI	OBL
*	Rorippa sylvestris	Rorippa sylvestris (L.) Besser	Brassicaceae	Forb	OBL	
<b>Not Assigned</b>	Rorippa tenerima	Rorippa tenerima Greene	Brassicaceae	Forb	FAC	NI
<b>5</b>	Rorippa teres	Rorippa teres (Michaux) Stuckey	Brassicaceae	Forb	FACW	OBL
<b>5</b>	Rosa acicularis ssp. sayi	Rosa sayi Schweinitz	Rosaceae	Shrub	FACU	FACU
<b>5</b>	Rosa arkansana	Rosa arkansana T. C. Porter	Rosaceae	Shrub	NI	NI
*	Rosa eglanteria	Rosa rubiginosa L.	Rosaceae	Shrub	NI	NI
<b>5</b>	Rosa nutkana var. hispida	Rosa nutkana Presl var. hispida Fernald	Rosaceae	Shrub		NI
<b>5</b>	Rosa woodsii	Rosa woodsii Lindley	Rosaceae	Shrub	FACU	FAC-
<b>Not Assigned</b>	Rotala ramosior	Rotala ramosior (L.) Koehne	Lythraceae	Forb	NI	NI
<b>9</b>	Rubus arcticus ssp. acaulis	Cylactis arctica (L.) W. A. Weber subsp. acaulis (Michaux) W. A. Weber	Rosaceae	Forb	NO	OBL
<b>6</b>	Rubus deliciosus	Oreobatus deliciosus (James ex Torrey) Rydberg	Rosaceae	Shrub		
*	Rubus discolor	Rubus discolor Weihe & Nees	Rosaceae	Shrub	NO	FACW
<b>5</b>	Rubus idaeus ssp. strigosus	Rubus idaeus L. subsp. melanolasius (Dieck) Focke	Rosaceae	Shrub	NI	FACU
*	Rubus laciniatus	Rubus laciniatus Willdenow	Rosaceae	Vine, Shrub	NI	NI
<b>7</b>	Rubus neomexicanus	Oreobatus deliciosus (James ex Torrey) Rydberg subsp. neomexicanus (Rydberg) Weber	Rosaceae	Shrub		
*	Rubus occidentalis	Rubus occidentalis L.	Rosaceae	Shrub		
<b>7</b>	Rubus parviflorus var. parviflorus	Rubacer parviflorum (Nuttall) Rydberg	Rosaceae	Shrub		FAC
<b>7</b>	Rubus pubescens var. pubescens	Cylactis pubescens (Rafinesque) W. A. Weber	Rosaceae	Forb		FAC+
<b>6</b>	Rudbeckia hirta	Rudbeckia hirta L.	Asteraceae	Forb	FACU	FACU
<b>6</b>	Rudbeckia laciniata var. ampla	Rudbeckia ampla A. Nelson	Asteraceae	Forb	FAC	FAC+
<b>7</b>	Rudbeckia montana	Rudbeckia occidentalis Nuttall var. montana (A. Gray) Perdue	Asteraceae	Forb		FACU
*	Rudbeckia triloba	Rudbeckia triloba L.	Asteraceae	Forb	FACU	NI
*	Rumex acetosella	Acetosella vulgaris (K. Koch) Fourreau	Polygonaceae	Forb	FAC	FAC-
<b>0</b>	Rumex altissimus	Rumex altissimus Wood	Polygonaceae	Forb	FAC	OBL

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5	Rumex aquaticus var. fenestratus	Rumex aquaticus L. subsp. occidentalis (S. Watson) Hulten	Polygonaceae	Forb	OBL	OBL
*	Rumex crispus	Rumex crispus L.	Polygonaceae	Forb	FACW	FACW
5	Rumex densiflorus	Rumex densiflorus Osterhout	Polygonaceae	Forb	NI	FACW+
4	Rumex hymenosepalus	Rumex hymenosepalus Torrey	Polygonaceae	Forb		
Not Assigned	Rumex maritimus	Rumex maritimus L. subsp. fueginus (Philippi) Hulten	Polygonaceae	Forb	FACW	FACW
*	Rumex obtusifolius	Rumex obtusifolius L.	Polygonaceae	Forb	FAC	FACW
Not Assigned	Rumex paucifolius ssp. paucifolius	Acetosella paucifolia (Nuttall) Loeve	Polygonaceae	Forb		OBL
4	Rumex salicifolius var. denticulatus	Rumex utahensis Rechinger	Polygonaceae	Forb		
4	Rumex salicifolius var. mexicanus	Rumex triangulivalvis (Danser) Rechinger f.	Polygonaceae	Forb	FAC	FACW
*	Rumex stenophyllus	Rumex stenophyllus Ledebour	Polygonaceae	Forb	FACW+	NI
4	Rumex venosus	Rumex venosus Pursh	Polygonaceae	Forb	FAC	UPL
Not Assigned	Ruppia cirrhosa	Ruppia cirrhosa (Petagna) Grande subsp. occidentalis (S. Watson) Loeve & Loeve	Ruppiaceae	Forb	OBL	OBL
*	Saccharum ravennae	Erianthus ravennae (L.) Beauvois	Poaceae	Graminoid		NI
*	Sagina apetala	Sagina apetala Ard	Carophyllaceae	Forb	NO	NO
7	Sagina saginoides	Sagina saginoides (L.) Karsten	Caryophyllaceae	Forb	NI	FACW
Not Assigned	Sagittaria calycina var. calycina	Sagittaria montevidensis Chamisso & Schlechtendal subsp. calycina (Engelmann) Begon	Alismataceae	Forb	OBL	
6	Sagittaria cuneata	Sagittaria cuneata Sheldon	Alismataceae	Forb	OBL	OBL
Not Assigned	Sagittaria graminea	Sagittaria graminea Michaux	Alismataceae	Forb	OBL	NI
5	Sagittaria latifolia	Sagittaria latifolia Willdenow	Alismataceae	Forb	OBL	OBL
4	Salicornia rubra	Salicornia europaea L. subsp. rubra (A. Nelson) Breitung	Chenopodiaceae	Forb	OBL	OBL
*	Salix ×sepulcralis	Salix babylonica L.	Salicaceae	Tree	FACW	FACW
*	Salix alba	Salix alba L. var. vitellina (L.) J. Stokes	Salicaceae	Tree	FACW	FAC
5	Salix amygdaloidea	Salix amygdaloidea Andersson	Salicaceae	Tree	FACW	FACW
6	Salix bebbiana	Salix bebbiana Sargent	Salicaceae	Shrub	FACW	FACW+
7	Salix boothii	Salix boothii Dorn	Salicaceae	Shrub	NI	OBL*
8	Salix brachycarpa	Salix brachycarpa Nuttall	Salicaceae	Shrub	NI	FACW
10	Salix calcicola	Salix calcicola Fernald & Wiegand	Salicaceae	Shrub		

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		<i>Salix lanata</i> L. subsp. <i>calcicola</i> (Fernald & Wiegand) Hulten	Salicaceae	Shrub		
9	<i>Salix candida</i>	<i>Salix candida</i> Fluegge	Salicaceae	Shrub	NI	OBL
6	<i>Salix drummondiana</i>	<i>Salix drummondiana</i> Barratt	Salicaceae	Shrub	NI	FACW+
6	<i>Salix eriocephala</i>	<i>Salix eriocephala</i> Michaux	Salicaceae	Shrub	FACW	FACW
3	<i>Salix exigua</i>	<i>Salix exigua</i> Nuttall	Salicaceae	Shrub	OBL	OBL
		<i>Salix exigua</i> Nuttall subsp. <i>exigua</i>	Salicaceae	Shrub	OBL	FACW
*	<i>Salix fragilis</i>	<i>Salix fragilis</i> L.	Salicaceae	Tree	FAC	FAC
6	<i>Salix geyeriana</i>	<i>Salix geyeriana</i> Andersson	Salicaceae	Shrub	NI	OBL
8	<i>Salix glauca</i>	<i>Salix glauca</i> L. var. <i>villosa</i> Andersson	Salicaceae	Shrub	NO	FAC*
		<i>Salix exigua</i> Nuttall subsp. <i>interior</i> (Rowlee) Cronquist	Salicaceae	Shrub	OBL	
4	<i>Salix interior</i>					
7	<i>Salix irrorata</i>	<i>Salix irrorata</i> Andersson	Salicaceae	Shrub	NI	FACW+
7	<i>Salix ligulifolia</i>	<i>Salix ligulifolia</i> Ball	Salicaceae	Shrub	NI	OBL
		<i>Salix ligulifolia</i> Ball ex Schneid.	Salicaceae	Shrub	OBL	OBL
7	<i>Salix lucida</i>	<i>Salix lucida</i> Muhlenberg subsp. <i>caudata</i> (Nuttall) E. Murray (see <i>S. lasiandra</i> var. <i>caudata</i> )	Salicaceae	Shrub	FACW	FACW
		<i>Salix lucida</i> Muhlenberg subsp. <i>lasiandra</i> (Bentham) E. Murray (see <i>S. lasiandra</i> var. <i>lasiandra</i> )	Salicaceae	Shrub	FACW	FACW+
6	<i>Salix lucida</i> ssp. <i>caudata</i>	<i>Salix lasiandra</i> Bentham var. <i>caudata</i> (Nutt.) Sudworth	Salicaceae	Shrub	FACW	OBL
6	<i>Salix lucida</i> ssp. <i>lasiandra</i>	<i>Salix lasiandra</i> Bentham var. <i>lasiandra</i>	Salicaceae	Shrub	NI	OBL
6	<i>Salix lutea</i>	<i>Salix lutea</i> Nuttall (also see <i>Salix ligulifolia</i> )	Salicaceae	Shrub	OBL	OBL
*	<i>Salix matsudana</i>	<i>Salix matsudana</i> Koidzumi	Salicaceae	Shrub		
<b>Not Assigned</b>	<i>Salix melanopsis</i>	<i>Salix melanopsis</i> Nuttall	Salicaceae	Shrub	NO	FACW+
6	<i>Salix monticola</i>	<i>Salix monticola</i> Bebb in Coulter	Salicaceae	Shrub	NI	OBL
10	<i>Salix myrtillifolia</i>	<i>Salix myrtillifolia</i> Andersson	Salicaceae	Shrub	NI	FACW+
7	<i>Salix nigra</i>	<i>Salix nigra</i> Marshall	Salicaceae	Tree	OBL	OBL
9	<i>Salix nivalis</i>	<i>Salix reticulata</i> L. subsp. <i>nivalis</i> (Hooker) Loeve et al.	Salicaceae	Shrub		FACW
8	<i>Salix petiolaris</i>	<i>Salix gooddingii</i> Ball	Salicaceae	Tree	OBL	NI
		<i>Salix gracilis</i> Andersson	Salicaceae	Tree	OBL	OBL*

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8	<i>Salix petrophila</i>	<i>Salix arctica</i> Pallas subsp. <i>petraea</i> (Andersson) Loeve et al.	Salicaceae	Shrub		FACW
7	<i>Salix planifolia</i>	<i>Salix planifolia</i> Pursh	Salicaceae	Shrub	NI	OBL
*	<i>Salix purpurea</i>	<i>Salix purpurea</i> L.	Salicaceae	Shrub	NI	NI
6	<i>Salix scouleriana</i>	<i>Salix scouleriana</i> Barratt ex Hooker	Salicaceae	Shrub	NI	FAC*
9	<i>Salix serissima</i>	<i>Salix serissima</i> (L. H. Bailey) Fernald	Salicaceae	Shrub	OBL	NI
8	<i>Salix wolffii</i>	<i>Salix wolffii</i> Bebb	Salicaceae	Shrub	NI	OBL
*	<i>Salsola collina</i>	<i>Salsola collina</i> Pallas	Chenopodiaceae	Forb		
*	<i>Salsola tragus</i>	<i>Salsola australis</i> R. Brown	Chenopodiaceae	Forb	FACU	FACU
*	<i>Salvia aethiopis</i>	<i>Salvia aethiopis</i> L.	Lamiaceae	Forb		
*	<i>Salvia azurea</i> var. <i>grandiflora</i>	<i>Salvia azurea</i> Michaux & Lamarck var. <i>grandiflora</i> Bentham	Lamiaceae	Forb		
*	<i>Salvia nemorosa</i>	<i>Salvia nemorosa</i> L.	Lamiaceae	Forb		
*	<i>Salvia pratensis</i>	<i>Salvia pratensis</i> L.	Lamiaceae	Forb		
2	<i>Salvia reflexa</i>	<i>Salvia reflexa</i> Hornemann	Lamiaceae	Forb		
*	<i>Salvia sclarea</i>	<i>Salvia sclarea</i> L.	Lamiaceae	Forb		
*	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	<i>Sambucus canadensis</i> L.	Caprifoliaceae	Shrub	FAC	FACW
6	<i>Sambucus nigra</i> ssp. <i>cerulea</i>	<i>Sambucus coerulea</i> Rafinesque	Caprifoliaceae	Shrub		FACU
6	<i>Sambucus racemosa</i> var. <i>racemosa</i>	<i>Sambucus microbotrys</i> Rydberg	Caprifoliaceae	Shrub		FACU
*	<i>Sanguisorba minor</i>	<i>Sanguisorba minor</i> Scopoli	Rosaceae	Forb	NI	FACU-
8	<i>Sanicula marilandica</i>	<i>Sanicula marilandica</i> L.	Apiaceae	Forb	NI	NI
6	<i>Sapindus saponaria</i> var. <i>drummondii</i>	<i>Sapindus drummondii</i> Hooker & Arnott	Sapindaceae	Shrub	UPL	
*	<i>Saponaria officinalis</i>	<i>Saponaria officinalis</i> L.	Caryophyllaceae	Forb	FACU	FACU-
4	<i>Sarcobatus vermiculatus</i>	<i>Sarcobatus vermiculatus</i> (Hooker) Torrey	Chenopodiaceae	Shrub	FACU	FACU*
10	<i>Saussurea weberi</i>	<i>Saussurea weberi</i> Hulten	Asteraceae	Forb		
10	<i>Saxifraga adscendens</i> ssp. <i>oregonensis</i>	<i>Muscaria adscendens</i> (L.) Small	Saxifragaceae	Forb		UPL
8	<i>Saxifraga bronchialis</i> ssp. <i>austromontana</i>	<i>Ciliaria austromontana</i> (Wiegand) W. A. Weber	Saxifragaceae	Forb		FACU-
10	<i>Saxifraga caespitosa</i> ssp. <i>delicatula</i>	<i>Muscaria delicatula</i> Small	Saxifragaceae	Forb		FACU
10	<i>Saxifraga caespitosa</i> ssp. <i>monticola</i>	<i>Muscaria micropetala</i> (Small) Fedde	Saxifragaceae	Forb		FACU
10	<i>Saxifraga caespitosa</i> ssp. <i>monticola</i>	<i>Muscaria monticola</i> (Small) Fedde	Saxifragaceae	Forb		FACU
9	<i>Saxifraga cernua</i>	<i>Saxifraga cernua</i> L.	Saxifragaceae	Forb	NI	FACW

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8	Saxifraga chrysanthia	Hirculus serpyllifolius (Pursh) W. A. Weber subsp. chrysanthus (A. Gray) W. A. Weber	Saxifragaceae	Forb	NI	FACU
9	Saxifraga flagellaris ssp. crandallii	Hirculus platysepalus (Trautvetter) W. A. Weber subsp. crandallii (Gandoger) W. A. Weber	Saxifragaceae	Forb		
10	Saxifraga foliolosa	Spatularia foliolosa (R. Brown) Small	Saxifragaceae	Forb	NO	OBL
9	Saxifraga hirculus	Hirculus prorepens (Fischer ex Sternberg) Loeve & Loeve	Saxifragaceae	Forb	NI	OBL
8	Saxifraga odontoloma	Micranthes odontoloma (Piper) Heller	Saxifragaceae	Forb	NI	FACW+
8	Saxifraga oregana	Micranthes oregana (T. J. Howell) Small	Saxifragaceae	Forb	NI	OBL
8	Saxifraga rhomboidea	Micranthes rhomboidea (Greene) Small	Saxifragaceae	Forb	NI	FACW
9	Saxifraga rivularis	Saxifraga hyperborea R. Brown subsp. debilis (Engelmann ex A. Gray) Loeve et al.	Saxifragaceae	Forb	NI	FACW
		Saxifraga rivularis L.	Saxifragaceae	Forb	NI	FACW
2	Schedonnardus paniculatus	Schedonnardus paniculatus (Nuttall) Trelease	Poaceae	Graminoid		
8	Schizachne purpurascens	Schizachne purpurascens (Torrey) Swallen	Poaceae	Graminoid	FACU	FACU
5	Schizachyrium scoparium	Schizachyrium scoparium (Michaux) Nash	Poaceae	Graminoid	FACU	FACU
6	Schkuhria multiflora	Bahia neomexicana A. Gray	Asteraceae	Forb		
6	Schoenocrambe linearifolia	Schoenocrambe linearifolia (A. Gray) Rollins	Brassicaceae	Forb		
6	Schoenocrambe linifolia	Schoenocrambe linifolia (Nuttall) Greene	Brassicaceae	Forb		
3	Schoenoplectus acutus var. acutus	Schoenoplectus lacustris (L.) Palla subsp. acutus (Muhlenberg ex Bigelow) Loeve & Loeve	Cyperaceae	Graminoid	OBL	OBL
Not Assigned	Schoenoplectus fluviatilis	Bolboschoenus maritimus (L.) Palla subsp. fluviatilis (Torrey) Loeve & Loeve	Cyperaceae	Graminoid	OBL	OBL
5	Schoenoplectus maritimus	Bolboschoenus maritimus (L.) Palla subsp. paludosus (A. Nelson) Loeve & Loeve	Cyperaceae	Graminoid	NI	OBL
4	Schoenoplectus pungens	Schoenoplectus pungens (M. Vahl) Palla	Cyperaceae	Graminoid	OBL	OBL
8	Schoenoplectus saximontanus	Schoenoplectus saximontanus (Fernald) Raynal	Cyperaceae	Graminoid	OBL	
3	Schoenoplectus tabernaemontani	Schoenoplectus lacustris (L.) Palla subsp. creber (Fernald) Loeve & Loeve	Cyperaceae	Graminoid	OBL	OBL
5	Scirpus microcarpus	Scirpus microcarpus J. & K. Presl	Cyperaceae	Graminoid	NI	OBL
7	Scirpus nevadensis	Amphiscirpus nevadensis (S. Watson) Oteng-Yeboah	Cyperaceae	Graminoid	NI	OBL
5	Scirpus pallidus	Scirpus pallidus (Britton) Fernald	Cyperaceae	Graminoid	OBL	OBL

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*	<i>Scirpus pendulus</i>	<i>Scirpus lineatus</i> Michaux	Cyperaceae	Graminoid	NI	NI
8	<i>Sclerocactus glaucus</i>	<i>Sclerocactus glaucus</i> (K. Schumann) L. Benson	Cactaceae	Shrub		
9	<i>Sclerocactus mesae-verdae</i>	<i>Sclerocactus mesa-verdae</i> (Boissevain & Davidson) L. Benson	Cactaceae	Shrub		
5	<i>Sclerocactus parviflorus</i>	<i>Sclerocactus parviflorus</i> CLoever & Jotter	Cactaceae	Shrub		
*	<i>Sclerochloa dura</i>	<i>Sclerochloa dura</i> (L.) P. Beauvois	Poaceae	Graminoid		
Not Assigned	<i>Scleropogon brevifolius</i>	<i>Scleropogon brevifolius</i> Philippi	Poaceae	Graminoid		
*	<i>Scorzonerá laciniata</i>	<i>Podospermum laciniatum</i> (L.) De Candolle	Asteraceae	Forb		
5	<i>Scrophularia lanceolata</i>	<i>Scrophularia lanceolata</i> Pursh	Scrophulariaceae	Forb	FAC	UPL
6	<i>Scutellaria brittonii</i>	<i>Scutellaria brittonii</i> T. C. Porter	Lamiaceae	Forb		
7	<i>Scutellaria galericulata</i>	<i>Scutellaria galericulata</i> L. var. <i>epilobiifolia</i> (Hamilton) Jordal	Lamiaceae	Forb	OBL	OBL
10	<i>Scutellaria lateriflora</i>	<i>Scutellaria lateriflora</i> L.	Lamiaceae	Forb	OBL	NO
*	<i>Scutellaria resinosa</i>	<i>Scutellaria resinosa</i> Torrey	Lamiaceae	Shrub		
*	<i>Secale cereale</i>	<i>Secale cereale</i> L.	Poaceae	Graminoid		
*	<i>Sedum acre</i>	<i>Sedum acre</i> L.	Crassulaceae	Forb		
5	<i>Sedum lanceolatum</i> ssp. <i>lanceolatum</i>	<i>Amerosendum lanceolatum</i> (Torrey) Loeve & Loeve	Crassulaceae	Forb		
*	<i>Sedum spurium</i>	<i>Spathulata spuria</i> (Bieberstein) Loeve & Loeve	Crassulaceae	Forb		
6	<i>Selaginella densa</i>	<i>Selaginella densa</i> Rydberg	Selaginellaceae	Forb		
7	<i>Selaginella mutica</i>	<i>Selaginella mutica</i> D. C. Eaton	Selaginellaceae	Forb		
8	<i>Selaginella selaginoides</i>	<i>Selaginella selaginoides</i> (L.) Link	Selaginellaceae	Forb	NO	OBL
7	<i>Selaginella underwoodii</i>	<i>Selaginella underwoodii</i> Hieronymus	Selaginellaceae	Forb		
7	<i>Selaginella weatherbiana</i>	<i>Selaginella weatherbiana</i> Tryon	Selaginellaceae	Forb		
8	<i>Senecio amplectens</i> var. <i>amplectens</i>	<i>Ligularia amplectens</i> (A. Gray) W. A. Weber	Asteraceae	Forb		FACW
9	<i>Senecio amplectens</i> var. <i>holmii</i>	<i>Ligularia holmii</i> (Greene) W. A. Weber	Asteraceae	Forb		FACW
5	<i>Senecio atratus</i>	<i>Senecio atratus</i> Greene	Asteraceae	Forb		
7	<i>Senecio bigelovii</i> var. <i>hallii</i>	<i>Ligularia bigelovii</i> (A. Gray) W. A. Weber var. <i>hallii</i> (A. Gray) W. A. Weber	Asteraceae	Forb		
7	<i>Senecio crassulus</i>	<i>Senecio crassulus</i> A. Gray	Asteraceae	Forb	NI	FACU
4	<i>Senecio eremophilus</i> var. <i>kingii</i>	<i>Senecio eremophilus</i> Richardson subsp. <i>kingii</i> (Rydberg) Douglas & R.-Douglas	Asteraceae	Forb		FACU

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7	Senecio fremontii var. blitoides	Senecio flaccidus Lessing var. douglasii (DeCandolle) Turner & Barkley	Asteraceae	Forb		
		Senecio fremontii Torrey & Gray subsp. blitoides (Greene) W. A. Weber	Asteraceae	Forb		
6	Senecio hydrophilus	Senecio hydrophilus Nuttall	Asteraceae	Forb	OBL	OBL
5	Senecio integerrimus	Senecio integerrimus Nuttall	Asteraceae	Forb	FACW-	FAC
Not Assigned	Senecio pudicus	Ligularia pudica (Greene) W. A. Weber	Asteraceae	Forb		
Not Assigned	Senecio rapifolius	Senecio rapifolius Nuttall	Asteraceae	Forb		
5	Senecio riddellii	Senecio riddellii Torrey & Gray	Asteraceae	Forb		
6	Senecio serra	Senecio serra Hooker	Asteraceae	Forb	NI	FACU
		Senecio serra Hooker var. serra	Asteraceae	Forb	NI	FACU
7	Senecio serra var. admirabilis	Senecio serra Hooker var. admirabilis (Greene) A. Nelson	Asteraceae	Forb		FACU
9	Senecio soldanella	Ligularia soldanella (A. Gray) W. A. Weber	Asteraceae	Forb		
5	Senecio spartioides	Senecio spartioides Torrey & Gray	Asteraceae	Forb		
Not Assigned	Senecio spartioides var. multicapitatus	Senecio multicapitatus Greenman in Rydberg	Asteraceae	Forb		
9	Senecio taraxacoides	Ligularia taraxacoides (A. Gray) W. A. Weber	Asteraceae	Forb		
7	Senecio triangularis	Senecio triangularis Hooker	Asteraceae	Forb	NI	OBL
*	Senecio vulgaris	Senecio vulgaris L.	Asteraceae	Forb	FAC	UPL
7	Senecio wootonii	Senecio wootonii Greene	Asteraceae	Forb		
*	Sesuvium verrucosum	Sesuvium verrucosum Rafinesque	Aizoaceae	Forb	FACW	FACW+
*	Setaria italica	Setaria italica (L.) P. Beauvois	Poaceae	Graminoid	FACU	FAC
Not Assigned	Setaria leucopila	Setaria leucopila (Scribner & Merrill) K. Schumann	Poaceae	Graminoid		
*	Setaria verticillata	Setaria verticillata (L.) P. Beauvois	Poaceae	Graminoid	FAC	FACU
*	Setaria viridis	Setaria viridis (L.) P. Beauvois	Poaceae	Graminoid		
7	Shepherdia argentea	Shepherdia argentea (Pursh) Nuttall	Elaeagnaceae	Shrub	NI	
7	Shepherdia canadensis	Shepherdia canadensis (L.) Nuttall	Elaeagnaceae	Shrub	NI	NI
7	Shinnersoseris rostrata	Shinnersoseris rostrata (A. Gray) Tomb	Asteraceae	Forb		
6	Sibbaldia procumbens	Sibbaldia procumbens L.	Rosaceae	Forb	NI	
5	Sidalcea candida	Sidalcea candida A. Gray	Malvaceae	Forb	NI	FACW+
5	Sidalcea neomexicana	Sidalcea neomexicana A. Gray	Malvaceae	Forb	NI	FACW

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7	<i>Silene acaulis</i> var. <i>subacaulescens</i>	<i>Silene acaulis</i> (L.) L. subsp. <i>subacaulescens</i> (F. N. Williams) Hitchcock & Maguire	Caryophyllaceae	Forb		UPL
*	<i>Silene antirrhina</i>	<i>Silene antirrhina</i> L.	Caryophyllaceae	Forb		
*	<i>Silene conoidea</i>	<i>Conosilene conica</i> (L.) Fourr. ssp. <i>conoidea</i> (L.) A. Löve & Kjellq.	Caryophyllaceae	Forb		
*	<i>Silene csereii</i>	<i>Silene csereii</i> Baumgartner	Caryophyllaceae	Forb		
*	<i>Silene dichotoma</i>	<i>Silene dichotoma</i> Ehrhart	Caryophyllaceae	Forb		
*	<i>Silene dioica</i>	<i>Melandrium dioicum</i> (L.) Cossion & Germain	Caryophyllaceae	Forb		
6	<i>Silene drummondii</i> var. <i>drummondii</i>	<i>Gastrolychnis drummondii</i> (Hooker) Loeve & Loeve	Caryophyllaceae	Forb		
*	<i>Silene gallica</i>	<i>Silene gallica</i> L.	Caryophyllaceae	Forb		
<b>Not Assigned</b>	<i>Silene kingii</i>	<i>Gastrolychnis kingii</i> (S. Watson) W. A. Weber	Caryophyllaceae	Forb		
<b>Not Assigned</b>	<i>Silene menziesii</i> ssp. <i>menziesii</i> var. <i>menziesii</i>	<i>Anotites menziesii</i> (Hooker) Greene	Caryophyllaceae	Forb		FAC
*	<i>Silene noctiflora</i>	<i>Silene noctiflora</i> L.	Caryophyllaceae	Forb		
5	<i>Silene scouleri</i> ssp. <i>hallii</i>	<i>Silene scouleri</i> Hooker subsp. <i>hallii</i> (S. Watson) Hitchcock & Maguire	Caryophyllaceae	Forb		
<b>Not Assigned</b>	<i>Silene uralensis</i>	<i>Gastrolychnis apetala</i> (L.) Tolmatchev & Kozhanchikov subsp. <i>uralensis</i> (Ruprecht) Loeve & Loeve	Caryophyllaceae	Forb	NI	UPL
*	<i>Silene vulgaris</i>	<i>Silene vulgaris</i> (Moench) Gärcke	Caryophyllaceae	Forb		
7	<i>Silphium integrifolium</i>	<i>Silphium integrifolium</i> Michaux	Asteraceae	Forb		
<b>Not Assigned</b>	<i>Silphium laciniatum</i>	<i>Silphium laciniatum</i> L.	Asteraceae	Forb		
*	<i>Sinapis alba</i>	<i>Sinapis alba</i> L.	Brassicaceae	Forb		
*	<i>Sinapis arvensis</i>	<i>Sinapis arvensis</i> L.	Brassicaceae	Forb		
*	<i>Sisymbrium altissimum</i>	<i>Sisymbrium altissimum</i> L.	Brassicaceae	Forb	FACU	FACU-
*	<i>Sisymbrium austriacum</i>	<i>Sisymbrium austriacum</i> Jacquin	Brassicaceae	Forb		
*	<i>Sisymbrium loeselii</i>	<i>Sisymbrium loeselii</i> L.	Brassicaceae	Forb		
*	<i>Sisymbrium officinale</i>	<i>Sisymbrium officinale</i> (L.) Scopoli	Brassicaceae	Forb		
7	<i>Sisyrinchium demissum</i>	<i>Sisyrinchium demissum</i> Greene	Iridaceae	Forb	NI	OBL
7	<i>Sisyrinchium idahoense</i> var. <i>occidentale</i>	<i>Sisyrinchium idahoense</i> Bicknell var. <i>occidentale</i> (Bicknell) D. Henderson	Iridaceae	Forb		OBL
6	<i>Sisyrinchium montanum</i>	<i>Sisyrinchium montanum</i> Greene	Iridaceae	Forb	FAC	FAC-

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7	<i>Sisyrinchium pallidum</i>	<i>Sisyrinchium pallidum</i> Cholewa & Henderson	Iridaceae	Forb		FACW
6	<i>Sium suave</i>	<i>Sium suave</i> Walter	Apiaceae	Forb	OBL	OBL
9	<i>Smelowskia calycina</i>	<i>Smelowskia calycina</i> (Stephan ex Willdenow) C. A. Meyer	Brassicaceae	Forb		
7	<i>Smilax lasioneura</i>	<i>Smilax lasioneuron</i> Hooker	Smilacaceae	Vine, Forb/herb		
2	<i>Solanum americanum</i>	<i>Solanum americanum</i> P. Miller	Solanaceae	Shrub	FAC	FACU+
*	<i>Solanum carolinense</i>	<i>Solanum carolinense</i> L.	Solanaceae	Forb	UPL	NI
*	<i>Solanum dulcamara</i>	<i>Solanum dulcamara</i> L.	Solanaceae	Forb	FAC	FAC
*	<i>Solanum elaeagnifolium</i>	<i>Solanum elaeagnifolium</i> Cavanilles	Solanaceae	Forb		
*	<i>Solanum heterodoxum</i>	<i>Solanum heterodoxum</i> Dunal	Solanaceae	Forb		
3	<i>Solanum jamesii</i>	<i>Solanum jamesii</i> Torrey	Solanaceae	Forb		
*	<i>Solanum physalifolium</i>	<i>Solanum physalifolium</i> Rusby var. <i>nitidibaccatum</i> (Bitter) Edmonds	Solanaceae	Forb		
*	<i>Solanum rostratum</i>	<i>Solanum rostratum</i> Dunal	Solanaceae	Forb		
2	<i>Solanum triflorum</i>	<i>Solanum triflorum</i> Nuttall	Solanaceae	Forb		
5	<i>Solidago canadensis</i>	<i>Solidago canadensis</i> L.	Asteraceae	Forb	FACU	FACU
6	<i>Solidago gigantea</i>	<i>Solidago serotinoides</i> Loeve & Loeve (see <i>Solidago gigantea</i> )	Asteraceae	Forb	FACW	FACW
5	<i>Solidago missouriensis</i>	<i>Solidago missouriensis</i> Nuttall	Asteraceae	Forb		
6	<i>Solidago mollis</i>	<i>Solidago mollis</i> Bartling	Asteraceae	Forb		
5	<i>Solidago multiradiata</i> var. <i>scopulorum</i>	<i>Solidago multiradiata</i> Aiton var. <i>scopulorum</i> A. Gray	Asteraceae	Forb		FACU
6	<i>Solidago nana</i>	<i>Solidago nana</i> Nuttall	Asteraceae	Forb		
5	<i>Solidago nemoralis</i> var. <i>longipetiolata</i>	<i>Solidago nemoralis</i> Aiton var. <i>longipetiolata</i> (Mackenzie & Bush) Palmer & Steyermark	Asteraceae	Forb		
6	<i>Solidago simplex</i> ssp. <i>simplex</i>	<i>Solidago simplex</i> Humboldt, Bonpland, & Kunth var. <i>simplex</i>	Asteraceae	Forb		FACU-
6	<i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>nana</i>	<i>Solidago simplex</i> Humboldt, Bonpland, & Kunth var. <i>nana</i>	Asteraceae	Forb		FACU-
		<i>Solidago spathulata</i> De Candolle var. <i>nana</i> (A. Gray) Cronquist (see <i>S. simplex</i> var. <i>nana</i> )	Asteraceae	Forb		FACU-
6	<i>Solidago simplex</i> ssp. <i>simplex</i> var. <i>simplex</i>	<i>Solidago spathulata</i> De Candolle var. <i>neomexicana</i> (A. Gray) Cronquist (see <i>S. simplex</i> var. <i>simplex</i> )	Asteraceae	Forb		FACU-

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<b>Not Assigned</b>	<i>Solidago speciosa</i> var. <i>pallida</i>	<i>Solidago speciosa</i> Nuttall var. <i>pallida</i> T. C. Porter	Asteraceae	Forb		
<b>6</b>	<i>Solidago velutina</i>	<i>Solidago velutina</i> De Candolle	Asteraceae	Forb		
<b>7</b>	<i>Solidago wrightii</i> var. <i>adenophora</i>	<i>Solidago wrightii</i> A. Gray var. <i>adenophora</i> S. F. Blake	Asteraceae	Forb		
*	<i>Sonchus arvensis</i>	<i>Sonchus arvensis</i> L.	Asteraceae	Forb	FAC	FACU
*	<i>Sonchus arvensis</i> ssp. <i>uliginosus</i>	<i>Sonchus uliginosus</i> Bieberstein	Asteraceae	Forb		
*	<i>Sonchus asper</i>	<i>Sonchus asper</i> (L.) J. Hill	Asteraceae	Forb	FACW	FACU
*	<i>Sonchus oleraceus</i>	<i>Sonchus oleraceus</i> L.	Asteraceae	Forb	FACU	UPL
<b>5</b>	<i>Sophora nuttalliana</i>	<i>Vexibia nuttalliana</i> (B. Turner) W. A. Weber	Fabaceae	Forb		
<b>7</b>	<i>Sorbus scopulina</i>	<i>Sorbus scopulina</i> Greene	Rosaceae	Shrub	NI	NI
<b>10</b>	<i>Sorghastrum nutans</i>	<i>Sorghastrum avenaceum</i> (Michaux) Nash	Poaceae	Graminoid	FACU	FACW
*	<i>Sorghum bicolor</i> ssp. <i>bicolor</i>	<i>Sorghum vulgare</i> Persoon	Poaceae	Graminoid		FACU
*	<i>Sorghum halepense</i>	<i>Sorghum halepense</i> (L.) Persoon	Poaceae	Graminoid	FACU	FACU+
<b>7</b>	<i>Sparganium angustifolium</i>	<i>Sparganium angustifolium</i> Michaux	Sparganiaceae	Forb	NI	OBL
		<i>Sparganium emersum</i> Rehmann	Sparganiaceae	Forb	NI	OBL
<b>6</b>	<i>Sparganium eurycarpum</i>	<i>Sparganium eurycarpum</i> Engelmann ex A. Gray	Sparganiaceae	Forb	OBL	OBL
<b>8</b>	<i>Sparganium natans</i>	<i>Sparganium minimum</i> Wallroth	Sparganiaceae	Forb		OBL
<b>7</b>	<i>Spartina gracilis</i>	<i>Spartina gracilis</i> Triniius	Poaceae	Graminoid	FACW	FACW
<b>7</b>	<i>Spartina pectinata</i>	<i>Spartina pectinata</i> Link	Poaceae	Graminoid	FACW	OBL
*	<i>Spergula arvensis</i>	<i>Spergula arvensis</i> L.	Caryophyllaceae	Forb		
*	<i>Spergularia maritima</i>	<i>Spergularia media</i> (L.) K. Presl	Caryophyllaceae	Forb	NI	OBL
*	<i>Spergularia rubra</i>	<i>Spergularia rubra</i> (L.) J. & K. Presl	Caryophyllaceae	Forb	NI	FACU
<b>4</b>	<i>Spergularia salina</i>	<i>Spergularia marina</i> (L.) Grisebach	Caryophyllaceae	Forb	OBL	OBL
<b>5</b>	<i>Sphaeralcea angustifolia</i>	<i>Sphaeralcea angustifolia</i> (Cavanilles) G. Don var. <i>cuspidata</i> A. Gray	Malvaceae	Forb		
<b>4</b>	<i>Sphaeralcea coccinea</i>	<i>Sphaeralcea coccinea</i> (Pursh) Rydberg	Malvaceae	Forb		
<b>4</b>	<i>Sphaeralcea coccinea</i> ssp. <i>coccinea</i>	<i>Sphaeralcea coccinea</i> (Pursh) Rydberg subsp. <i>coccinea</i>	Malvaceae	Forb		
		<i>Sphaeralcea coccinea</i> (Pursh) Rydberg subsp. <i>dissecta</i> (Nuttall) Kearney	Malvaceae	Forb		
<b>4</b>	<i>Sphaeralcea coccinea</i> ssp. <i>elata</i>	<i>Sphaeralcea coccinea</i> subsp. <i>elata</i> (E. G. Baker) Kearney	Malvaceae	Forb		
<b>Not Assigned</b>	<i>Sphaeralcea fendleri</i>	<i>Sphaeralcea fendleri</i> A. Gray	Malvaceae	Forb		

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<b>Not Assigned</b>	<i>Sphaeralcea leptophylla</i>	<i>Sphaeralcea leptophylla</i> (A. Gray) Rydberg	Malvaceae	Forb		
<b>5</b>	<i>Sphaeralcea parvifolia</i>	<i>Sphaeralcea parvifolia</i> A. Nelson	Malvaceae	Forb		
<b>Not Assigned</b>	<i>Sphaeromeria argentea</i>	<i>Sphaeromeria argentea</i> Nuttall	Asteraceae	Forb		
<b>9</b>	<i>Sphaeromeria capitata</i>	<i>Sphaeromeria capitata</i> Nuttall	Asteraceae	Forb		
*	<i>Sphaerophysa salsula</i>	<i>Sphaerophysa salsula</i> (Pallas) De Candolle	Fabaceae	Forb	NI	FAC
<b>5</b>	<i>Sphenopholis obtusata</i>	<i>Sphenopholis obtusata</i> (Michaux) Scribnier	Poaceae	Graminoid	FACW	FACW-
<b>Not Assigned</b>	<i>Spiraea douglasii</i> var. <i>menziesii</i>	<i>Spiraea douglasii</i> Hooker var. <i>menziesii</i> (Hooker) K. Presl	Rosaceae	Shrub		
<b>7</b>	<i>Spiranthes diluvialis</i>	<i>Spiranthes diluvialis</i> Sheviak	Orchidaceae	Forb	NI	
<b>7</b>	<i>Spiranthes romanzoffiana</i>	<i>Spiranthes romanzoffiana</i> Chamisso	Orchidaceae	Forb	OBL	FACW*
*	<i>Spirodela polyrhiza</i>	<i>Spirodela polyrhiza</i> (L.) Schleiden	Lemnaceae	Forb	OBL	OBL
<b>5</b>	<i>Sporobolus airoides</i>	<i>Sporobolus airoides</i> (Torrey) Torrey	Poaceae	Graminoid	FAC	FAC
<b>4</b>	<i>Sporobolus compositus</i> var. <i>compositus</i>	<i>Sporobolus asper</i> (Michaux) Kunth	Poaceae	Graminoid	FACU	UPL
<b>4</b>	<i>Sporobolus contractus</i>	<i>Sporobolus contractus</i> A. S. Hitchcock	Poaceae	Graminoid		
<b>2</b>	<i>Sporobolus cryptandrus</i>	<i>Sporobolus cryptandrus</i> (Torrey) A. Gray	Poaceae	Graminoid	FACU-	FACU-
<b>6</b>	<i>Sporobolus flexuosus</i>	<i>Sporobolus flexuosus</i> (Thurber) Rydberg	Poaceae	Graminoid	UPL	UPL
<b>6</b>	<i>Sporobolus giganteus</i>	<i>Sporobolus giganteus</i> Nash	Poaceae	Graminoid	FAC	NI
<b>9</b>	<i>Sporobolus heterolepis</i>	<i>Sporobolus heterolepis</i> (A. Gray) A. Gray	Poaceae	Graminoid	FACU	NI
<b>9</b>	<i>Sporobolus nealleyi</i>	<i>Sporobolus nealleyi</i> Vasey	Poaceae	Graminoid		
<b>Not Assigned</b>	<i>Sporobolus neglectus</i>	<i>Sporobolus neglectus</i> Nash	Poaceae	Graminoid	UPL	NI
<b>7</b>	<i>Sporobolus texanus</i>	<i>Sporobolus texanus</i> Vasey	Poaceae	Graminoid		NI
<b>Not Assigned</b>	<i>Stachys pilosa</i> var. <i>pilosa</i>	<i>Stachys palustris</i> L. subsp. <i>pilosa</i> (Nuttall) Epling	Lamiaceae	Forb	FACW	OBL
<b>4</b>	<i>Stanleya albescens</i>	<i>Stanleya albescens</i> Jones	Brassicaceae	Forb		
<b>5</b>	<i>Stanleya pinnata</i>	<i>Stanleya pinnata</i> (Pursh) Britton	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Stanleya pinnata</i> var. <i>integritifolia</i>	<i>Stanleya pinnata</i> (Pursh) Britton var. <i>integritifolia</i> (James) Rollins	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Stanleya pinnata</i> var. <i>pinnata</i>	<i>Stanleya pinnata</i> (Pursh) Britton var. <i>pinnata</i>	Brassicaceae	Forb		
<b>Not Assigned</b>	<i>Stanleya viridiflora</i>	<i>Stanleya viridiflora</i> Nuttall	Brassicaceae	Forb		
<b>8</b>	<i>Stellaria calycantha</i>	<i>Stellaria calycantha</i> (Ledebour) Bongard	Caryophyllaceae	Forb	NI	FACW+
<b>7</b>	<i>Stellaria crassifolia</i>	<i>Stellaria crassifolia</i> Ehrhart	Caryophyllaceae	Forb	OBL	OBL
*	<i>Stellaria graminea</i>	<i>Stellaria graminea</i> L.	Caryophyllaceae	Forb	NI	FAC
<b>9</b>	<i>Stellaria irrigua</i>	<i>Stellaria irrigua</i> Bunge	Caryophyllaceae	Forb		

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7	<i>Stellaria longifolia</i>	<i>Stellaria longifolia</i> Muhlenberg ex Willdenow	Caryophyllaceae	Forb	OBL	FACW
8	<i>Stellaria longipes</i>	<i>Stellaria longipes</i> Goldie	Caryophyllaceae	Forb	NI	FACW+
*	<i>Stellaria media</i> ssp. <i>media</i>	<i>Alsine media</i> L.	Caryophyllaceae	Forb	UPL	FACU
Not Assigned	<i>Stellaria obtusa</i>	<i>Stellaria obtusa</i> Engelmann	Caryophyllaceae	Forb	NO	FACW
8	<i>Stellaria umbellata</i>	<i>Stellaria umbellata</i> Turczaninov ex Karlin & Kirilow	Caryophyllaceae	Forb	NI	FAC+
Not Assigned	<i>Stenogonum flexum</i>	<i>Stenogonum flexum</i> (Jones) Reveal & Howell	Polygonaceae	Forb		
1	<i>Stenogonum salsuginosum</i>	<i>Stenogonum salsuginosum</i> Nuttall	Polygonaceae	Forb		
7	<i>Stenosiphon linifolius</i>	<i>Stenosiphon linifolius</i> (Nuttall in F. James) Heynhold	Onagraceae	Forb		
6	<i>Stenotus acaulis</i>	<i>Stenotus acaulis</i> Nuttall	Asteraceae	Forb		
7	<i>Stenotus armeriooides</i>	<i>Stenotus armeriooides</i> Nuttall	Asteraceae	Forb		
5	<i>Stephanomeria exigua</i>	<i>Stephanomeria exigua</i> Nuttall	Asteraceae	Forb		
5	<i>Stephanomeria pauciflora</i>	<i>Stephanomeria pauciflora</i> (Torrey) A. Nelson	Asteraceae	Forb		
5	<i>Stephanomeria runcinata</i>	<i>Stephanomeria runcinata</i> Nuttall	Asteraceae	Forb		
5	<i>Stephanomeria wrightii</i>	<i>Stephanomeria wrightii</i> A. Gray	Asteraceae	Forb		
Not Assigned	<i>Stillingia sylvatica</i>	<i>Stillingia sylvatica</i> Garden ex L.	Euphorbiaceae	Forb		
5	<i>Streptanthella longirostris</i>	<i>Streptanthella longirostris</i> (S. Watson) Rydberg	Brassicaceae	Forb		
8	<i>Streptanthus cordatus</i>	<i>Streptanthus cordatus</i> Nuttall ex Torrey & Gray	Brassicaceae	Forb		
7	<i>Streptopus amplexifolius</i> var. <i>chalazatus</i>	<i>Streptopus fassettii</i> Loeve & Loeve	Liliaceae	Forb		FACW
5	<i>Strophostyles leiosperma</i>	<i>Strophostyles leiosperma</i> (Torrey & Gray) Piper	Fabaceae	Vine, Forb/herb		
5	<i>Stuckenia filiformis</i> ssp. <i>filiformis</i>	<i>Potamogeton filiformis</i> Persoon	Potamogetonaceae	Forb	OBL	OBL
3	<i>Stuckenia pectinatus</i>	<i>Potamogeton pectinatus</i> L.	Potamogetonaceae	Forb	OBL	OBL
Not Assigned	<i>Stuckenia vaginatus</i>	<i>Potamogeton vaginatus</i> Turczaninov	Potamogetonaceae	Forb		OBL
3	<i>Suaeda calceoliformis</i>	<i>Suaeda calceoliformis</i> (Hooker) Moquin	Chenopodiaceae	Forb	FACW	FACW
3	<i>Suaeda moquinii</i>	<i>Suaeda moquinii</i> Torrey	Chenopodiaceae	Forb	FAC	FAC
		<i>Suaeda nigra</i> (Rafinesque) Macbride	Chenopodiaceae	Forb	FACW	FACW
Not Assigned	<i>Subularia aquatica</i>	<i>Subularia aquatica</i> L.	Brassicaceae	Forb	NI	OBL
4	<i>Suckleya suckleyana</i>	<i>Suckleya suckleyana</i> (Torrey) Rydberg	Chenopodiaceae	Forb	FACW	FAC
10	<i>Sullivantia hapemanii</i> var. <i>purpusii</i>	<i>Sullivantia hapemanii</i> (Coulter & Fisher) Coulter var. <i>purpusii</i> (Brandegee) Soltis	Saxifragaceae	Forb	NO	OBL
8	<i>Swertia perennis</i>	<i>Swertia perennis</i> L.	Gentianaceae	Forb	NI	FACW-

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6	<i>Syphoricarpos albus</i>	<i>Syphoricarpos albus</i> (L.) S. F. Blake	Caprifoliaceae	Shrub	FACU	
8	<i>Syphoricarpos longiflorus</i>	<i>Syphoricarpos longiflorus</i> A. Gray	Caprifoliaceae	Shrub		
3	<i>Syphoricarpos occidentalis</i>	<i>Syphoricarpos occidentalis</i> Hooker	Caprifoliaceae	Shrub	NI	
5	<i>Syphoricarpos rotundifolius</i>	<i>Syphoricarpos rotundifolius</i> A. Gray	Caprifoliaceae	Shrub		
Not Assigned	<i>Symphyotrichum ×amethystinum</i>	<i>Virgulus amethystinus</i> (Nuttall) Reveal & Keener	Asteraceae	Forb		
5	<i>Symphyotrichum ascendens</i>	<i>Aster orthophyllus</i> Greene	Asteraceae	Forb		FACU
		<i>Virgulaster ascendens</i> (Lindley ex Hooker) Semple	Asteraceae	Forb		
7	<i>Symphyotrichum boreale</i>	<i>Aster junciformis</i> Rydberg	Asteraceae	Forb	OBL	OBL
Not Assigned	<i>Symphyotrichum campestre</i> var. <i>campestre</i>	<i>Virgulus campestris</i> (Nuttall) Reveal & Keener	Asteraceae	Forb		
Not Assigned	<i>Symphyotrichum ciliatum</i>	<i>Brachyactis ciliata</i> Ledebour subsp. <i>angusta</i> (Lindley) A. Jones	Asteraceae	Forb	FACW	FACW
Not Assigned	<i>Symphyotrichum eatonii</i>	<i>Aster bracteolatus</i> Nuttall	Asteraceae	Forb		FAC
4	<i>Symphyotrichum ericoides</i> var. <i>ericoides</i>	<i>Virgulus ericoides</i> (L.) Reveal & Keener	Asteraceae	Forb	FACU	NI
4	<i>Symphyotrichum falcatum</i> var. <i>falcatum</i>	<i>Virgulus falcatus</i> (Lindley) Reveal & Keener	Asteraceae	Forb	FAC	FAC
6	<i>Symphyotrichum fendleri</i>	<i>Virgulus fendleri</i> (A. Gray) Reveal & Keener	Asteraceae	Forb		
5	<i>Symphyotrichum foliaceum</i> var. <i>foliaceum</i>	<i>Aster foliaceus</i> Lindley ex De Candolle var. <i>foliaceus</i>	Asteraceae	Forb		FACU
Not Assigned	<i>Symphyotrichum frondosum</i>	<i>Brachyactis frondosa</i> (Nuttall) A. Gray	Asteraceae	Forb		OBL
6	<i>Symphyotrichum laeve</i> var. <i>geyeri</i>	<i>Aster laevis</i> L. var. <i>geyeri</i> A. Gray	Asteraceae	Forb		
5	<i>Symphyotrichum lanceolatum</i> ssp. <i>hesperium</i> var. <i>hesperium</i>	<i>Aster lanceolatus</i> Willdenow subsp. <i>hesperius</i> (A. Gray) Semple & Chmielewski	Asteraceae	Forb	OBL	OBL
5	<i>Symphyotrichum novae-angliae</i>	<i>Virgulus novae-angliae</i> (L.) Reveal & Keener	Asteraceae	Forb		
5	<i>Symphyotrichum oblongifolium</i>	<i>Virgulus oblongifolius</i> (Nuttall) Reveal & Keener	Asteraceae	Forb		
6	<i>Symphyotrichum porteri</i>	<i>Aster porteri</i> A. Gray	Asteraceae	Forb		NI
6	<i>Symphyotrichum spathulatum</i> var. <i>spathulatum</i>	<i>Aster spathulatus</i> Lindley ex De Candolle	Asteraceae	Forb		FAC
*	<i>Sympytum officinale</i>	<i>Sympytum officinale</i> L.	Boraginaceae	Forb		
7	<i>Talinum calycinum</i>	<i>Talinum calycinum</i> Engelmann	Portulacaceae	Forb		
6	<i>Talinum parviflorum</i>	<i>Talinum parviflorum</i> Nuttall ex Torrey & Gray	Portulacaceae	Forb		
*	<i>Tamarix parviflora</i>	<i>Tamarix parviflora</i> De Candolle	Tamaricaceae	Shrub	FACW	FACW

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*	Tamarix ramosissima	Tamarix ramosissima Ledebour	Tamaricaceae	Shrub	FACW	FACW
*	Tanacetum parthenium	Tanacetum parthenium (L.) Schultz-Bipontinus	Asteraceae	Forb		
*	Tanacetum vulgare	Tanacetum vulgare L.	Asteraceae	Forb	NI	
6	Taraxacum eriophorum	Taraxacum eriophorum Rydberg	Asteraceae	Forb		
<b>Not Assigned</b>	Taraxacum lyratum	Taraxacum scopolorum (A. Gray) Rydberg	Asteraceae	Forb		
*	Taraxacum officinale	Taraxacum officinale G. H. Weber ex Wiggers	Asteraceae	Forb	FACU	FACU+
<b>Not Assigned</b>	Taraxacum officinale ssp. ceratophorum	Taraxacum dumetorum Greene	Asteraceae	Forb		
		Taraxacum ovinum Greene	Asteraceae	Forb		
9	Telesonix jamesii	Telesonix jamesii (Torrey) Rafinesque	Saxifragaceae	Forb		
6	Tetradymia canescens	Tetradymia canescens De Candolle	Asteraceae	Shrub		
<b>Not Assigned</b>	Tetradymia nuttallii	Tetradymia nuttallii Torrey & Gray	Asteraceae	Shrub		
6	Tetradymia spinosa	Tetradymia spinosa Hooker & Arnott	Asteraceae	Shrub		
6	Tetraneurus acaulis	Tetraneurus acaulis (Pursh) Greene	Asteraceae	Forb		
<b>Not Assigned</b>	Tetraneurus acaulis var. caespitosa	Tetraneurus brevifolia Greene	Asteraceae	Forb		
9	Tetraneurus grandiflora	Rydbergia brandegei (T. C. Porter) Rydberg	Asteraceae	Forb		
		Rydbergia grandiflora (Torrey & Gray) Greene	Asteraceae	Forb		
6	Tetraneurus ivesiana	Tetraneurus ivesiana Greene	Asteraceae	Forb		
7	Tetraneurus scaposa	Tetraneurus scaposa (De Candolle) Greene	Asteraceae	Forb		
7	Tetraneurus torreyana	Tetraneurus torreyana (Nuttall) Greene	Asteraceae	Forb		
3	Teucrium canadense var. occidentale	Teucrium canadense L. subsp. occidentale (A. Gray) W. A. Weber	Lamiaceae	Forb	FACW	FACW
6	Teucrium laciniatum	Teucrium laciniatum Torrey	Lamiaceae	Forb		
8	Thalictrum alpinum	Thalictrum alpinum L.	Ranunculaceae	Forb	NI	FAC
7	Thalictrum dasycarpum	Thalictrum dasycarpum Fischer & Ave-Lallémant	Ranunculaceae	Forb	FACW	FACW
6	Thalictrum fendleri	Thalictrum fendleri Engelmann ex A. Gray	Ranunculaceae	Forb	NI	UPL
9	Thalictrum heliophilum	Thalictrum heliophilum Wilken & DeMott	Ranunculaceae	Forb		
<b>Not Assigned</b>	Thalictrum revolutum	Thalictrum revolutum De Candolle	Ranunculaceae	Forb	NI	NI
5	Thalictrum sparsiflorum	Thalictrum sparsiflorum Turczaninov ex Fischer & Ave-Lallémant	Ranunculaceae	Forb	NI	FAC+
7	Thalictrum venulosum	Thalictrum venulosum Trelease	Ranunculaceae	Forb	NI	FACU*
<b>Not Assigned</b>	Thamnosma texana	Thamnosma texana (A. Gray) Torrey	Rutaceae	Forb		

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5	Thelesperma filifolium var. intermedium	Thelesperma filifolium (Hooker) A. Gray var. intermedium (Rydberg) Shinners	Asteraceae	Forb		
5	Thelesperma megapotamicum	Thelesperma megapotamicum (Sprengel) Kuntze	Asteraceae	Forb		
6	Thelesperma subnudum	Thelesperma subnudum A. Gray	Asteraceae	Forb		
8	Thelypodiopsis aurea	Thelypodiopsis aurea (Eastwood) Rydberg	Brassicaceae	Forb		
6	Thelypodiopsis elegans	Thelypodiopsis elegans (Jones) Rydberg	Brassicaceae	Forb		
6	Thelypodiopsis juniperorum	Thelypodiopsis juniperorum (Payson) Rydberg	Brassicaceae	Forb		
6	Thelypodium integrifolium	Thelypodium integrifolium (Nuttall) Endlicher	Brassicaceae	Forb	FAC	FAC
8	Thelypodium laxiflorum	Thelypodium laxiflorum Al-Shehbaz	Brassicaceae	Forb		
Not Assigned	Thelypodium paniculatum	Thelypodium paniculatum A. Nelson	Brassicaceae	Forb		
7	Thelypodium wrightii ssp. oklahomense	Thelypodium sagittatum (Nuttall) Endlicher subsp. sagittatum	Brassicaceae	Forb		
		Thelypodium wrightii A. Gray subsp. oklahomensis Al-Shehbaz	Brassicaceae	Forb		
6	Thermopsis divaricarpa	Thermopsis divaricarpa A. Nelson	Fabaceae	Forb		
6	Thermopsis montana	Thermopsis montana Nuttall ex Torrey & Gray	Fabaceae	Forb		
5	Thermopsis rhombifolia	Thermopsis rhombifolia (Nuttall ex Pursh) Richardson	Fabaceae	Forb	FACU	FAC*
*	Thinopyrum intermedium	Thinopyrum intermedium (Host) Barkworth & Dewey	Poaceae	Graminoid		
		Thinopyrum intermedium (Host) Barkworth & Dewey subsp. barbulatum (Schur) Barkworth & Dewey	Poaceae	Graminoid		
*	Thinopyrum ponticum	Thinopyrum ponticum (Podpera) Barkworth & Dewey	Poaceae	Graminoid		
*	Thlaspi arvense	Thlaspi arvense L.	Brassicaceae	Forb	NI	NI
5	Thlaspi montanum var. montanum	Noccaea montana (L.) F. K. Meyer	Brassicaceae	Forb		
7	Thymophylla aurea	Thymophylla aurea (A. Gray) Greene	Asteraceae	Forb		
3	Tidestromia lanuginosa	Cladothrix lanuginosa (Nuttall ex Moquin) Bentham & Hooker	Amaranthaceae	Forb		
Not Assigned	Tiquilia nuttallii	Tiquilia nuttallii (Bentham) A. Richard	Boraginaceae	Forb	NO	NI
5	Tonestus lyallii	Tonestus lyallii (A. Gray) A. Nelson	Asteraceae	Forb		
8	Tonestus pygmaeus	Tonestus pygmaeus (Torrey & Gray) A. Nelson	Asteraceae	Forb		

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5	<i>Torreyochoa pallida</i> var. <i>pauciflora</i>	<i>Torreyochoa pauciflora</i> (J. Presl in K. Presl) Church	Poaceae	Graminoid	NI	OBL
Not Assigned	<i>Townsendia alpigena</i> var. <i>alpigena</i>	<i>Townsendia montana</i> Jones	Asteraceae	Forb		
3	<i>Townsendia annua</i>	<i>Townsendia annua</i> Beaman	Asteraceae	Forb		
Not Assigned	<i>Townsendia eximia</i>	<i>Townsendia eximia</i> A. Gray	Asteraceae	Forb		
6	<i>Townsendia exscapa</i>	<i>Townsendia exscapa</i> (Richardson) T. C. Porter	Asteraceae	Forb		
Not Assigned	<i>Townsendia fendleri</i>	<i>Townsendia fendleri</i> A. Gray	Asteraceae	Forb		
6	<i>Townsendia glabella</i>	<i>Townsendia glabella</i> A. Gray	Asteraceae	Forb		
6	<i>Townsendia grandiflora</i>	<i>Townsendia grandiflora</i> Nuttall	Asteraceae	Forb		
6	<i>Townsendia hookeri</i>	<i>Townsendia hookeri</i> Beaman	Asteraceae	Forb		
6	<i>Townsendia incana</i>	<i>Townsendia incana</i> Nuttall	Asteraceae	Forb		
Not Assigned	<i>Townsendia leptotes</i>	<i>Townsendia leptotes</i> (A. Gray) Osterhout	Asteraceae	Forb		
8	<i>Townsendia rothrockii</i>	<i>Townsendia rothrockii</i> A. Gray ex Rothrock	Asteraceae	Forb		
Not Assigned	<i>Townsendia strigosa</i>	<i>Townsendia strigosa</i> Nuttall	Asteraceae	Forb		
3	<i>Toxicodendron rydbergii</i>	<i>Toxicodendron rydbergii</i> (Small ex Rydberg) Greene	Anacardiaceae	Shrub	FAC	FACU
5	<i>Tradescantia occidentalis</i> var. <i>scopulorum</i>	<i>Tradescantia occidentalis</i> (Britton) Smyth var. <i>scopulorum</i> (Rose) Anderson & Woodson	Commelinaceae	Forb		FACU
6	<i>Tragia ramosa</i>	<i>Tragia ramosa</i> (Muller-Argoviensis in De Candolle) Torrey	Euphorbiaceae	Forb		
*	<i>Tragopogon dubius</i>	<i>Tragopogon dubius</i> Scopoli subsp. <i>major</i> (Jacquin) Vollmann	Asteraceae	Forb		
*	<i>Tragopogon porrifolius</i>	<i>Tragopogon porrifolius</i> L.	Asteraceae	Forb		
*	<i>Tragopogon pratensis</i>	<i>Tragopogon pratensis</i> L.	Asteraceae	Forb		
9	<i>Trautvetteria carolinensis</i>	<i>Trautvetteria carolinensis</i> (Walter) Vail	Ranunculaceae	Forb	NI	FAC
*	<i>Tribulus terrestris</i>	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Forb		
10	<i>Trichophorum pumilum</i>	<i>Trichophorum pumilum</i> (M. Vahl) Schinz & Thellung	Cyperaceae	Graminoid		OBL
Not Assigned	<i>Tridens muticus</i> var. <i>elongatus</i>	<i>Tridens muticus</i> (Torrey) Nash var. <i>elongatus</i> (Buckley) Shinners	Poaceae	Graminoid	NI	
Not Assigned	<i>Trifolium andinum</i>	<i>Trifolium andinum</i> Nuttall	Fabaceae	Forb		
8	<i>Trifolium attenuatum</i>	<i>Trifolium attenuatum</i> Greene	Fabaceae	Forb		
8	<i>Trifolium brandegeei</i>	<i>Trifolium brandegeei</i> S. Wats.	Fabaceae	Forb		

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8	<i>Trifolium dasypodium</i>	<i>Trifolium dasypodium</i> Torrey & Gray	Fabaceae	Forb	NI	FACU-
*	<i>Trifolium fragiferum</i>	<i>Trifolium fragiferum</i> L.	Fabaceae	Forb	FAC	FACW-
6	<i>Trifolium gymnocarpon</i>	<i>Trifolium gymnocarpon</i> Nuttall	Fabaceae	Forb		
*	<i>Trifolium hybridum</i>	<i>Trifolium hybridum</i> L.	Fabaceae	Forb	FACU	FAC-
9	<i>Trifolium kingii</i>	<i>Trifolium kingii</i> S. Watson	Fabaceae	Forb	NO	FACW
<b>Not Assigned</b>	<i>Trifolium longipes</i> ssp. <i>pygmaeum</i>	<i>Trifolium rusbyi</i> Greene	Fabaceae	Forb		FACU
7	<i>Trifolium longipes</i> ssp. <i>reflexum</i>	<i>Trifolium rusbyi</i> Greene subsp. <i>reflexum</i> (A. Nelson) Heller & Zohary	Fabaceae	Forb		FACU
9	<i>Trifolium nanum</i>	<i>Trifolium nanum</i> Torrey	Fabaceae	Forb	NI	UPL
8	<i>Trifolium parryi</i>	<i>Trifolium parryi</i> A. Gray	Fabaceae	Forb	NI	FACU
9	<i>Trifolium parryi</i> ssp. <i>salictorum</i>	<i>Trifolium rusbyi</i> Greene subsp. <i>rusbyi</i>	Fabaceae	Forb		
9	<i>Trifolium parryi</i> ssp. <i>salictorum</i>	<i>Trifolium salictorum</i> Greene ex Rydberg	Fabaceae	Forb		
*	<i>Trifolium pratense</i>	<i>Trifolium pratense</i> L.	Fabaceae	Forb	FACU	FACU
*	<i>Trifolium repens</i>	<i>Trifolium repens</i> L.	Fabaceae	Forb	FACU	FACU
5	<i>Trifolium wormskioeldii</i>	<i>Trifolium wormskioeldii</i> Lehmann	Fabaceae	Forb	NI	OBL
6	<i>Triglochin maritimum</i>	<i>Triglochin debilis</i> (Jones) Loeve & Loeve	Juncaginaceae	Graminoid	OBL	OBL
		<i>Triglochin maritima</i> L.	Juncaginaceae	Graminoid	OBL	OBL
7	<i>Triglochin palustre</i>	<i>Triglochin palustris</i> L.	Juncaginaceae	Graminoid	OBL	OBL
10	<i>Trillium ovatum</i>	<i>Trillium ovatum</i> Pursh	Liliaceae	Forb	NO	NI
<b>Not Assigned</b>	<i>Triodanis holzingeri</i>	<i>Triodanis holzingeri</i> McVaugh	Campanulaceae	Forb		
3	<i>Triodanis leptocarpa</i>	<i>Triodanis leptocarpa</i> (Nuttall) Nieuwland	Campanulaceae	Forb		
*	<i>Triodanis perfoliata</i>	<i>Triodanis perfoliata</i> (L.) Nieuwland	Campanulaceae	Forb	FAC	FACU
7	<i>Triplasis purpurea</i>	<i>Triplasis purpurea</i> (Walter) Chapman	Poaceae	Graminoid		
*	<i>Tripleurospermum perforata</i>	<i>Matricaria perforata</i> Merat	Asteraceae	Forb		NI
<b>Not Assigned</b>	<i>Tripterocalyx carnea</i> var. <i>wootonii</i>	<i>Tripterocalyx carneus</i> (Greene) Galloway var. <i>wootonii</i> (Standley) Galloway	Nyctaginaceae	Forb		
6	<i>Tripterocalyx micranthus</i>	<i>Tripterocalyx micranthus</i> (Torrey) Hooker	Nyctaginaceae	Forb		
7	<i>Trisetum spicatum</i>	<i>Trisetum montanum</i> Vasey	Poaceae	Graminoid	NI	FACU-
		<i>Trisetum spicatum</i> (L.) Richter	Poaceae	Graminoid	NI	FACU-
		<i>Trisetum spicatum</i> (L.) Richter subsp. <i>alaskanum</i> Hulten	Poaceae	Graminoid	NI	FACU-
		<i>Trisetum spicatum</i> (L.) Richter subsp. <i>cognodonii</i> (Scribnier & Merrill) Hulten	Poaceae	Graminoid	NI	FACU-

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		<i>Trisetum spicatum</i> (L.) Richter subsp. <i>molle</i> (Michaux) Hulten (see <i>Trisetum spicatum</i> subsp. <i>alaskanum</i> )	Poaceae	Graminoid	NI	FACU-
7	<i>Trisetum wolfii</i>	<i>Trisetum wolfii</i> Vasey in Rothrock	Poaceae	Graminoid	NI	FACW-
9	<i>Triteleia grandiflora</i>	<i>Triteleia grandiflora</i> Lindl.	Liliaceae	Forb		
*	<i>Triticum aestivum</i>	<i>Triticum aestivum</i> L.	Poaceae	Graminoid		
8	<i>Trollius laxus</i> ssp. <i>albiflorus</i>	<i>Trollius albiflorus</i> (A. Gray) Rydberg	Ranunculaceae	Forb		OBL
*	<i>Typha angustifolia</i>	<i>Typha angustifolia</i> L.	Typhaceae	Forb	OBL	OBL
4	<i>Typha domingensis</i>	<i>Typha domingensis</i> Persoon	Typhaceae	Forb	OBL	OBL
2	<i>Typha latifolia</i>	<i>Typha latifolia</i> L.	Typhaceae	Forb	OBL	OBL
*	<i>Ulmus pumila</i>	<i>Ulmus pumila</i> L.	Ulmaceae	Tree		
3	<i>Urtica gracilis</i> Aiton subsp. <i>gracilis</i>	<i>Urtica gracilis</i> Aiton subsp. <i>gracilis</i>	Urticaceae	Forb		FAC
3	<i>Urtica dioica</i> ssp. <i>holosericea</i>	<i>Urtica gracilis</i> Aiton subsp. <i>holosericea</i> (Nuttall) W. A. Weber	Urticaceae	Forb		FAC
7	<i>Utricularia macrorhiza</i>	<i>Utricularia macrorhiza</i> LeConte	Lentibulariaceae	Forb	OBL	OBL
9	<i>Utricularia minor</i>	<i>Utricularia minor</i> L.	Lentibulariaceae	Forb	OBL	OBL
10	<i>Utricularia ochroleuca</i>	<i>Utricularia ochroleuca</i> R. Hartman	Lentibulariaceae	Forb	NO	OBL
*	<i>Vaccaria hispanica</i>	<i>Vaccaria pyramidata</i> Medicus	Caryophyllaceae	Forb	NI	NI
7	<i>Vaccinium caespitosum</i>	<i>Vaccinium cespitosum</i> Michaux	Ericaceae	Shrub		FAC
6	<i>Vaccinium myrtillus</i> var. <i>oreophilum</i>	<i>Vaccinium myrtillus</i> L. subsp. <i>oreophilum</i> (Rydberg) Loeve et al.	Ericaceae	Shrub		NI
7	<i>Vaccinium scoparium</i>	<i>Vaccinium scoparium</i> Leiberg ex Coville	Ericaceae	Shrub	NI	FACU-
Not Assigned	<i>Vaccinium stamineum</i>	<i>Vaccinium globulare</i> Rydberg	Ericaceae	Shrub		
Not Assigned	<i>Vahlodea atropurpurea</i>	<i>Vahlodea atropurpurea</i> (Wahlenberg) E. Fries subsp. <i>paramushirensis</i> (Kudo) Hulten	Poaceae	Graminoid	NI	FAC+
8	<i>Valeriana acutiloba</i> var. <i>acutiloba</i>	<i>Valeriana capitata</i> Pallas ex Link subsp. <i>acutiloba</i> (Rydberg) F. G. Meyer	Valerianaceae	Forb		FACU
Not Assigned	<i>Valeriana arizonica</i>	<i>Valeriana arizonica</i> A. Gray	Valerianaceae	Forb		
7	<i>Valeriana edulis</i>	<i>Valeriana edulis</i> Nuttall	Valerianaceae	Forb	NI	FACW-
7	<i>Valeriana occidentalis</i>	<i>Valeriana occidentalis</i> Heller	Valerianaceae	Forb	NI	FAC-
4	<i>Veratrum tenuipetalum</i>	<i>Veratrum tenuipetalum</i> Heller	Liliaceae	Forb		
*	<i>Verbascum ×pterocaulon</i>	<i>Verbascum pterocaulon</i> Franchet	Scrophulariaceae	Forb		
*	<i>Verbascum blattaria</i>	<i>Verbascum blattaria</i> L.	Scrophulariaceae	Forb	UPL	UPL

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*	<i>Verbascum phlomoides</i>	<i>Verbascum phlomoides</i> L.	Scrophulariaceae	Forb		
*	<i>Verbascum thapsus</i>	<i>Verbascum thapsus</i> L.	Scrophulariaceae	Forb	NI	
*	<i>Verbena bracteata</i>	<i>Verbena bracteata</i> Lagasca & Rodriguez	Verbenaceae	Forb	FACU	FACU
4	<i>Verbena hastata</i>	<i>Verbena hastata</i> L.	Verbenaceae	Forb	FACW	FACW
2	<i>Verbena macdougalii</i>	<i>Verbena macdougalii</i> Heller	Verbenaceae	Forb	NI	UPL
<b>Not Assigned</b>	<i>Verbena plicata</i>	<i>Verbena plicata</i> Greene	Verbenaceae	Forb		
3	<i>Verbena stricta</i>	<i>Verbena stricta</i> Ventenat	Verbenaceae	Forb		
*	<i>Verbesina encelioides</i> ssp. <i>encelioides</i>	<i>Ximenesia encelioides</i> Cavanilles	Asteraceae	Forb	FAC	FACU
4	<i>Vernonia baldwinii</i> ssp. <i>interior</i>	<i>Vernonia baldwinii</i> Torrey subsp. <i>interior</i> (Small) Faust	Asteraceae	Forb	FACW-	
7	<i>Vernonia fasciculata</i> ssp. <i>corymbosa</i>	<i>Vernonia fasciculata</i> Michaux subsp. <i>corymbosa</i> (Schweinitz) Loeve & Loeve	Asteraceae	Forb	FAC	
6	<i>Vernonia marginata</i>	<i>Vernonia marginata</i> (Torrey) Rafinesque	Asteraceae	Forb	FAC	NI
6	<i>Veronica americana</i>	<i>Veronica americana</i> Schweinitz ex Bentham	Scrophulariaceae	Forb	OBL	OBL
*	<i>Veronica anagallis-aquatica</i>	<i>Veronica anagallis-aquatica</i> L.	Scrophulariaceae	Forb	OBL	OBL
		<i>Veronica catenata</i> Pennell	Scrophulariaceae	Forb	OBL	OBL
*	<i>Veronica biloba</i>	<i>Pocilla biloba</i> (L.) W. A. Weber	Scrophulariaceae	Forb		
*	<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	<i>Veronica peregrina</i> L. subsp. <i>xalapensis</i> (Humboldt, Bonpland, & Kunth) Pennell	Scrophulariaceae	Forb	OBL	
*	<i>Veronica polita</i>	<i>Pocilla polita</i> (E. Fries) Fourreau	Scrophulariaceae	Forb		
6	<i>Veronica scutellata</i>	<i>Veronica scutellata</i> L.	Scrophulariaceae	Forb	NI	OBL
6	<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	<i>Veronicastrum serpyllifolium</i> L. subsp. <i>humifusum</i> (Dickson) W. A. Weber	Scrophulariaceae	Forb	OBL	FACW
7	<i>Veronica wormskjoldii</i>	<i>Veronica nutans</i> Bongard	Scrophulariaceae	Forb	NI	FACU
6	<i>Viburnum edule</i>	<i>Viburnum edule</i> (Michaux) Rafinesque	Caprifoliaceae	Shrub	NI	FACW
*	<i>Viburnum lantana</i>	<i>Viburnum lantana</i> L.	Caprifoliaceae	Shrub		
*	<i>Viburnum lentago</i>	<i>Viburnum lentago</i> L.	Caprifoliaceae	Shrub	FAC	NI
5	<i>Vicia americana</i>	<i>Vicia americana</i> Muhlenberg ex Willdenow	Fabaceae	Vine	FAC	NI
		<i>Vicia americana</i> Muhlenberg ex Willdenow var. <i>americana</i>	Fabaceae	Vine	FAC	NI
6	<i>Vicia americana</i> ssp. <i>minor</i>	<i>Vicia americana</i> Muhlenberg var. <i>minor</i> Hooker	Fabaceae	Vine		NI
7	<i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>	<i>Vicia ludoviciana</i> Nuttall var. <i>texana</i> (Torrey & Gray) Shinners	Fabaceae	Vine, Forb/herb	NI	UPL

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
*	<i>Vicia sativa</i> ssp. <i>nigra</i>	<i>Vicia angustifolia</i> L.	Fabaceae	Vine, Forb/herb		FACU
*	<i>Vicia villosa</i>	<i>Vicia villosa</i> Roth	Fabaceae	Vine, Forb/herb		
6	<i>Viola adunca</i>	<i>Viola adunca</i> J. E. Smith	Violaceae	Forb	NI	FAC
9	<i>Viola affinis</i>	<i>Viola sororia</i> Willdenow var. <i>affinis</i> (Le Conte) McKinney	Violaceae	Forb	NI	NO
*	<i>Viola bicolor</i>	<i>Viola kitaibeliana</i> Roemer & Schultes var. <i>rafinesquei</i> (Greene) Fernald	Violaceae	Forb	FAC-	UPL
Not Assigned	<i>Viola biflora</i>	<i>Viola biflora</i> L.	Violaceae	Forb	NI	FACW
7	<i>Viola canadensis</i> var. <i>scopulorum</i>	<i>Viola rydbergii</i> Greene	Violaceae	Forb		
		<i>Viola scopulorum</i> (A. Gray) Greene	Violaceae	Forb		
9	<i>Viola labradorica</i>	<i>Viola labradorica</i> Schrank	Violaceae	Forb	NI	NI
Not Assigned	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	<i>Viola macloskeyi</i> Lloyd subsp. <i>pallens</i> (Banks ex De Candolle) M. S. Baker	Violaceae	Forb	NI	FACW+
5	<i>Viola nuttallii</i>	<i>Viola nuttallii</i> Pursh	Violaceae	Forb		
*	<i>Viola odorata</i>	<i>Viola odorata</i> L.	Violaceae	Forb		
7	<i>Viola pedatifida</i>	<i>Viola pedatifida</i> G. Don	Violaceae	Forb	FACU	UPL
7	<i>Viola praemorsa</i>	<i>Viola praemorsa</i> Douglas ex Lindley	Violaceae	Forb		
8	<i>Viola praemorsa</i> ssp. <i>linguifolia</i>	<i>Viola praemorsa</i> Douglas ex Lindley subsp. <i>linguifolia</i> (Nuttall) Baker & Clausen	Violaceae	Forb		
Not Assigned	<i>Viola purpurea</i> ssp. <i>venosa</i>	<i>Viola purpurea</i> Kellogg subsp. <i>venosa</i> (S. Watson) Baker & Clausen	Violaceae	Forb		
7	<i>Viola renifolia</i>	<i>Viola renifolia</i> A. Gray var. <i>brainerdii</i> (Greene) Fernald	Violaceae	Forb	NI	FACW
8	<i>Viola selkirkii</i>	<i>Viola selkirkii</i> Pursh ex Goldie	Violaceae	Forb		
Not Assigned	<i>Viola sheltonii</i>	<i>Viola sheltonii</i> Torrey	Violaceae	Forb		
8	<i>Viola sororia</i>	<i>Viola sororia</i> Willdenow	Violaceae	Forb	FAC	FAC*
		<i>Viola sororia</i> Willdenow var. <i>sororia</i>	Violaceae	Forb	FACW	FACW
Not Assigned	<i>Viola utahensis</i>	<i>Viola utahensis</i> Baker & Clausen	Violaceae	Forb		
7	<i>Viola vallicola</i>	<i>Viola vallicola</i> A. Nelson	Violaceae	Forb		
8	<i>Viola vallicola</i> var. <i>major</i>	<i>Viola praemorsa</i> Douglas ex Lindley subsp. <i>major</i> (Hooker) M. S. Baker	Violaceae	Forb		
6	<i>Vitis acerifolia</i>	<i>Vitis acerifolia</i> Rafinesque	Vitaceae	Vine		
5	<i>Vitis riparia</i>	<i>Vitis riparia</i> Michaux subsp. <i>riparia</i>	Vitaceae	Vine	FAC	FACW

Coefficient of Conservatism <sup>24</sup>	PLANTS Database Name	University of Colorado Herbarium Synonym (~Weber's East/West Slope Flora names)	Family	Lifeform	Region 5 Wetland Indicator Status <sup>25</sup>	Region 8 Wetland Indicator Status
3	<i>Vulpia octoflora</i>	<i>Vulpia octoflora</i> (Walter) Rydberg	Poaceae	Graminoid	UPL	UPL
<b>Not Assigned</b>	<i>Wolffia borealis</i>	<i>Wolffia borealis</i> (Engelmann) Landolt	Lemnaceae	Forb	OBL	OBL
<b>Not Assigned</b>	<i>Wolffia columbiana</i>	<i>Wolffia columbiana</i> Karsten	Lemnaceae	Forb	OBL	NO
10	<i>Woodsia neomexicana</i>	<i>Woodsia neomexicana</i> Windham	Dryopteridaceae	Forb		
10	<i>Woodsia oregana</i>	<i>Woodsia oregana</i> Eaton	Dryopteridaceae	Forb		
7	<i>Woodsia oregana</i> ssp. <i>cathcartiana</i>	<i>Woodsia oregana</i> subsp. <i>cathcartiana</i> (Robinson) Windham	Dryopteridaceae	Forb		
10	<i>Woodsia oregana</i> ssp. <i>oregana</i>	<i>Woodsia oregana</i> D. C. Eaton subsp. <i>oregana</i>	Dryopteridaceae	Forb		
8	<i>Woodsia plummerae</i>	<i>Woodsia plummerae</i> Lemmon	Dryopteridaceae	Forb		
8	<i>Woodsia scopulina</i>	<i>Woodsia scopulina</i> D. C. Eaton	Dryopteridaceae	Forb		
3	<i>Wyethia ×magna</i>	<i>Wyethia magna</i> A. Nelson ex W. A. Weber	Asteraceae	Forb		
3	<i>Wyethia amplexicaulis</i>	<i>Wyethia amplexicaulis</i> (Nuttall) Nuttall	Asteraceae	Forb	NI	FACU
3	<i>Wyethia arizonica</i>	<i>Wyethia arizonica</i> A. Gray	Asteraceae	Forb		
3	<i>Wyethia scabra</i> var. <i>canescens</i>	<i>Wyethia scabra</i> Hooker var. <i>canescens</i> W. A. Weber	Asteraceae	Forb		
3	<i>Wyethia scabra</i> var. <i>scabra</i>	<i>Wyethia scabra</i> Hooker var. <i>scabra</i>	Asteraceae	Forb		
*	<i>Xanthium spinosum</i>	<i>Acanthoxanthium spinosum</i> (L.) Fourreau	Asteraceae	Forb	FACU	FACU
*	<i>Xanthium strumarium</i>	<i>Xanthium strumarium</i> L.	Asteraceae	Forb	FAC	FAC
6	<i>Xylorhiza glabriuscula</i>	<i>Xylorhiza glabriuscula</i> Nuttall	Asteraceae	Forb		
5	<i>Xylorhiza venusta</i>	<i>Xylorhiza venusta</i> (Jones) Heller	Asteraceae	Shrub		
6	<i>Yucca baccata</i>	<i>Yucca baccata</i> Torrey	Agavaceae	Forb		
4	<i>Yucca glauca</i>	<i>Yucca glauca</i> Nuttall in Fraser	Agavaceae	Forb		
7	<i>Yucca harrimaniae</i>	<i>Yucca harrimaniae</i> Trelease	Agavaceae	Forb		
2	<i>Zannichellia palustris</i>	<i>Zannichellia palustris</i> L.	Zannichelliaceae	Forb	OBL	OBL
6	<i>Zigadenus elegans</i> ssp. <i>elegans</i>	<i>Anticlea elegans</i> (Pursh) Rydberg	Liliaceae	Forb	FAC	FACU
<b>Not Assigned</b>	<i>Zigadenus paniculatus</i>	<i>Toxicoscordion paniculatum</i> (Nuttall) Rydberg	Liliaceae	Forb		
9	<i>Zigadenus vaginatus</i>	<i>Anticlea vaginata</i> Rydberg	Liliaceae	Forb	NO	
5	<i>Zigadenus venenosus</i> var. <i>venenosus</i>	<i>Toxicoscordion venenosum</i> (S. Watson) Rydberg	Liliaceae	Forb	FAC	FAC*
5	<i>Zigadenus virescens</i>	<i>Anticlea virescens</i> (Kunth) Rydberg	Liliaceae	Forb	NO	NO
7	<i>Zinnia grandiflora</i>	<i>Zinnia grandiflora</i> Nuttall	Asteraceae	Shrub		
<b>Not Assigned</b>	<i>Zizia aptera</i>	<i>Zizia aptera</i> (A. Gray) Fernald	Apiaceae	Forb	FAC	FAC
7	<i>Zuckia brandegeei</i>	<i>Zuckia brandegeei</i> (A. Gray) Welsh & Stutz	Chenopodiaceae	Shrub		