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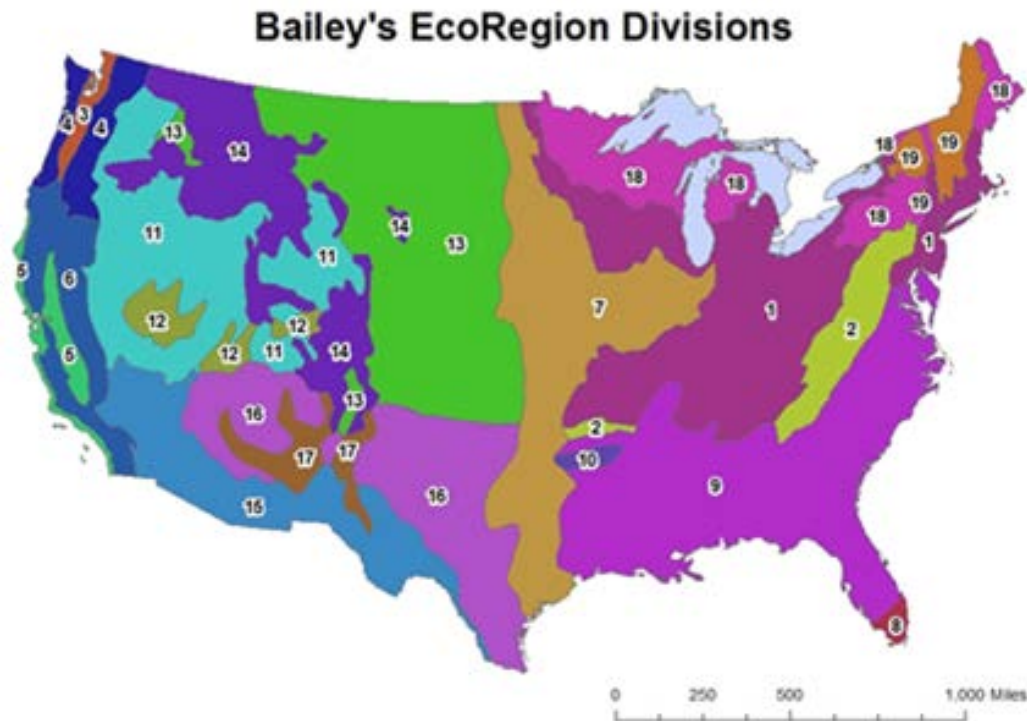


Integrated Climate Assessment for Army Enterprise Planning

Estimating Resistance and Resilience of Military Lands Using Vegetation Indices

Ryan R. Busby, Dick L. Gebhart, Steven J. Oxley,
William D. Tarantino, and Wade A. Wall

May 2017



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Estimating Resistance and Resilience of Military Lands Using Vegetation Indices

Ryan R. Busby, Dick L. Gebhart, Steven J. Oxley,
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Abstract

Military training inevitably leads to land degradation; however, some ecosystems have higher resistance and resilience to training based on the functional traits of existing vegetation, making them preferred for long-term use. This work estimated resistance and resilience for the continental United States using dominant plant species for numerous plant communities, resistance and resilience values for plant functional groups, and national community vegetation maps. Two datasets were combined to obtain greater detail and values for all land area. Results indicate that graminoid communities have the highest resistance values, and shrublands the lowest; and that eastern deciduous forests and prairies have the highest resilience values, and evergreen forests and shrublands the lowest. This lists the resistance and resilience values of a selection of Army installations using both datasets and a new combined metric. This new method will help the Army determine the portfolio of installations that will best meet its future training land requirements.

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Preface

This study was conducted for Headquarters, U.S. Army Corps of Engineers (HQUSACE) under Program 622720896, “Base Facility Environmental Quality,” Project 402188, “Integrated Climate Assessment for Army Enterprise Planning.” The technical monitors were Ms. Sarah Harrop and Ms. Nancy Zoller, Center for Army Analysis (CAA).

The work was performed by the Ecological Processes Branch (CNN) of the Installations Division (CN), U.S. Army Engineer Research and Development Center – Construction Engineering Research Laboratory (ERDC-CERL). At the time of publication, Dr. Chris Rewerts was Chief, CEERD-CNN; Ms. Michelle J. Hanson was Chief, CEERD-CN; and Mr. Alan B. Anderson was the Technical Director for Environmental Quality/Sustainable Lands and Ranges. The Deputy Director of ERDC-CERL was Dr. Kirankumar Topudurti and the Director was Dr. Ilker Adiguzel.

COL Bryan S. Green was Commander of ERDC, and Dr. David W. Pittman was the Director.

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1 Introduction

1.1 Background

Available training area is one of the U.S. Army's most valued resources in general and on installations in particular, as reflected by the high importance placed on maneuver area capacity when performing an installation level military value analysis (MVA) (DoD 2014). Training areas satisfy a most basic Army requirement and are defined as those installation areas designated for impact and detonation of all ordnance or those areas required for land-intensive training at the installation (HQDA 2013). Department of Defense Policy states that "The Department of Defense shall demonstrate stewardship of natural resources in its trust by protecting and enhancing those resources for mission support, biodiversity conservation, and maintenance of ecosystem services" (DoD 2011). One of the most important benefits of maintaining natural vegetation is that vegetation cover deters erosion that can degrade training areas to the point where training suitability is diminished, or where the areas become unusable.

Military training generally results in some level of vegetation disturbance. Since disturbance is one of the primary factors that structure plant communities in terrestrial ecosystems (Pickett and White 1985; Papaik and Canham 2006), understanding the impacts of military training on vegetation resilience to these types of disturbance is required to appropriately estimate maneuver area capacity (MAC).

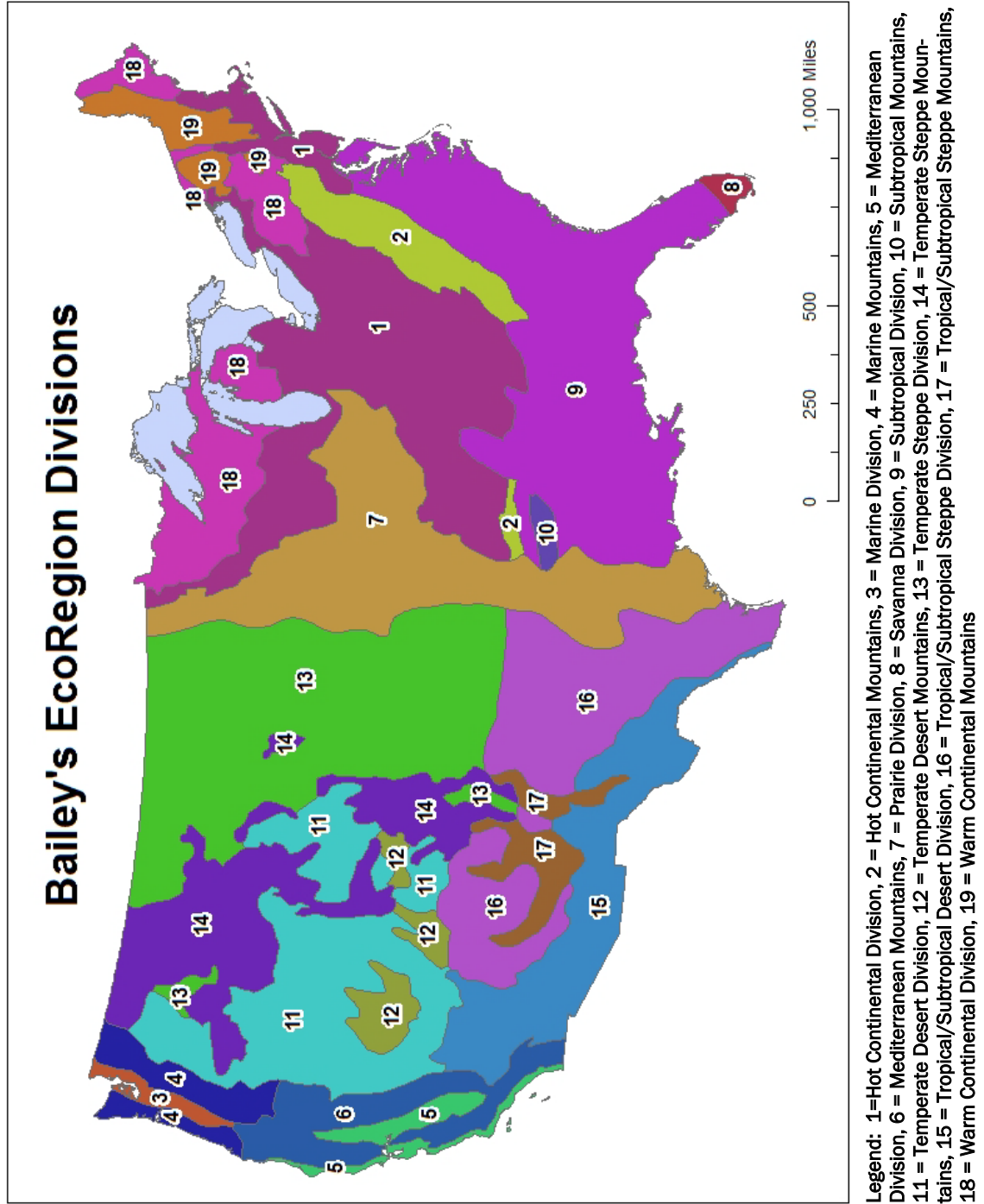
Under the Army's most recent MVA, "Range Sustainability" is a metric that represents the percentage of training lands that are available for use without restrictions (Zoller 2016). The metric is scaled by a multiplicative factor (range 0-1) that reflects the resiliency value of the vegetation on an installation. Restrictions include wetlands (as defined by the National Wetland Inventory [USFWS 2015]) and areas with slopes greater than 30%. The resiliency value for an installation is derived by determining the Bailey Ecoregion (1980) where the installation occurs and applying the corresponding resiliency value based on the ecosystem (Figure 1). Ecosystem resilience values are from Doe et al. (1999) and are based on subject matter expert opinion as applied to Bailey Ecoregions. MVA resiliency values reflect the number of passes from an M1A1 tank over the course of a

year that an area can withstand before being considered at a critical disturbance level. Resiliency values range from 2 to 12, with possible values being 2, 3, 4, 6, and 12. Resiliency values are converted into multiplicative factors that scale the aerial estimates of the installation. For example, if an installation's resiliency value is 12, the multiplicative value would be 1, whereas if an installation's resiliency value is 6, its multiplicative value would be 0.5.

While the current Range Sustainability metric may capture an installation's resilience, it is an atemporal metric that does not account for or adjust for projected shifts in temperature and precipitation. It is well-known that temperature and precipitation patterns are one of the main determinants of vegetation patterns (Whittaker 1975). This being the case, it is expected that projected climate change will have an impact on the spatial distribution of vegetation, both of individual species and community assemblages. These projected shifts in vegetation could lead to changes in training area resilience and recovery capabilities. For example, a reduction in annual rainfall could lead parts of the Midwest to shift from tall grass to shortgrass prairie, which would reduce rooting depth and thus also reduce the area's resiliency. In addition to changes in temperature and precipitation trends, changes in weather variability are probable (Fischer and Knutti 2015). Both changes in long-term trends and variability will be spatially and temporally heterogeneous. For example, higher latitude regions are projected to continue to experience greater impacts (Duarte et al. 2012). Due to these possible influences, a more nuanced metric that captures these dependencies is needed to inform Army decision processes as it determines the lands that will best meet future training land requirements.

Although numerous studies have estimated resistance and resilience values (hereafter referred to as "RRVAL") of individual species to mechanical disturbance, none have quantified these concepts at the plant community or ecosystem level to a point where they could then be used to evaluate a training area or training range. Although range-specific RRVAL estimates could be developed for major Army training ranges, such a development would likely be cost prohibitive because it would require the need for individual study site experiments and because it would likely produce an unnecessarily complex model.

Figure 1. Bailey Ecoregion Divisions.



Because, for all the major Army installations and training ranges, MAC is dependent at the most basic level on vegetation cover and generic plant community types, a reasonable first estimate for vegetation recovery could use a simple model that predicts net plant community type RRVAL. The model would take advantage of existing large databases assembled from experimental studies of vegetation RRVAL to traffic, trampling, and other types of physical or mechanical disturbances. One such database was compiled in 1997 for 737 species from 403 separate experimental studies (Yorks et al. 1997) and was used to develop RRVAL for plant functional groups, discussed later in the document. Additional data from other more recently published reviews were included to develop plant functional group and plant community type RRVAL (Monz et al. 2010; Barros, Gonnet, and Pickering 2013; Pescott and Stewart 2014). This work was undertaken to provide a scientifically defensible RRVAL estimate for natural vegetation communities across the United States, and to characterize the RRVAL for Continental U.S. (CONUS) military installations.

1.1 Objective

The overall objective of this research was to provide a scientifically defensible RRVAL estimate for natural vegetation communities across the United States. The specific objective was to characterize the RRVAL for CONUS military installations so that, by using the methods proposed here, the Army could use the resulting RRVAL metrics for comparative installations studies to determine the portfolio with the greatest training potential and MAC.

1.2 Approach

The objectives of this technical report were met through the following steps:

1. Resistance and resilience values for plant functional groups (e.g., C₄ grasses, shrubs) were identified based on a peer-reviewed database.
2. Dominant plant species on CONUS military installations were identified based on two national vegetation maps (NatureServe and Küchler natural vegetation maps).
3. Resistance and resilience values were assigned to these species based on functional group membership and average for the two vegetation maps.

4. RRVAL was determined for the selected CONUS installations with the study results from Steps 1-3.
5. Results from Step 4 were compared to previous attempts at estimating resistance and resilience values for military installations.

1.3 Scope

It is anticipated that the results of this work will be applicable to all CONUS military installations. With some modification, it is further anticipated that the study methods proposed here could also be applicable to installation in Alaska and Hawaii, and to Outside Continental United States (OCONUS) installations. In addition, results are applicable to other CONUS Federal lands where off-road vehicle usage is prevalent. Note that this effort focused on mechanized training where vehicles are prevalent because that level of training causes the greatest disruption. Separate results for high levels of foot traffic usage common to some forms of light infantry training are not needed as current conclusions on MAC are applicable across all training types.

2 Resistance and Resilience in Natural Plant Communities

Disturbance is one of the primary factors that structure plant communities in terrestrial ecosystems (Pickett and White 1985; Papaik and Canham 2006). Physical disturbances such as mechanized and dismantled training are highly visible and frequently result in the loss of vegetation cover and height, damage to soil quality and structure (Lucas-Borja et al. 2011), unexpected or undesirable changes in plant community composition (Ballantyne and Pickering 2013; Newsome, Moore, and Dowling 2012), and increased risks of invasive plant establishment and dominance (Potito and Beatty 2005; Crisfield, Macdonald, and Gould 2012; Barros, Gonnet, and Pickering 2013). Understanding the impacts and relationships between mechanized training and the sensitivity of vegetation to these types of disturbance is essential for effectively managing these interactions (Liddle 1997; Hamberg et al. 2010) and is required to appropriately and accurately estimate MAC.

Vegetation recovery is somewhat abstract and is often considered a component of the more common ecological concepts of vegetation resistance and resilience where resistance is often defined as the ability of the vegetation to withstand disturbance and resilience is defined as the ability to recover to the pre-disturbed state (Bernhardt-Römermann et al. 2011). For MAC analyses, the following definitions seem appropriate. Resistance is the relative ability of an individual plant species to withstand mechanized training, repeated trampling, or similar types of physical disturbance before being injured or impaired, while resilience is the capacity of an individual plant species, or more commonly, a plant community, to survive or regenerate following mechanized disturbance (Kuss and Hall 1991; Yorks et al. 1997). Therefore, resilience is considered the more important concept in the context of mechanized training disturbance because it operates at the plant community or landscape level rather than the individual plant level.

Resistance and resilience concepts have evolved over the past 20 years and several variations in their definitions exist (Vetter 2009). Resilience is often thought to be higher in species-rich communities, likely due to diversity of individual species' responses to perturbation, which minimizes effects on ecosystem functioning (Elmqvist et al. 2003; Speed et al. 2010).

Resistance and resilience of vegetation to disturbance is also strongly associated with plant morphology and functional traits (Bratton 1985; Roovers, Baeten, and Hermy 2004). Species such as grasses and grass-like plants are considered more resistant to maneuver damage because they have flexible, horizontal, and branching stems, narrow leaves, below-ground reproductive structures, low crown positions, and protective culm sheaths (Tolvanen et al. 2001). Conversely, shrubs, ferns, and forbs have broad leaves and vertical stems with reproductive capacity more elevated than the graminoids, which make them far more sensitive to maneuver training impacts (Tolvanen et al. 2001).

Life form and plant height may provide some predictive capability for inferring plant tolerance to mechanized disturbance (Sun and Liddle 1993; Roovers, Baeten, and Hermy 2004). Rosette growth forms are more resilient than erect forms (Cole 1995) and those with higher growth rates and C₄ photosynthetic pathways are also generally more resilient and recover faster from disturbance (MacGillivray and Grime 1995; Fortunel et al. 2009). In general terms, forbs are the most sensitive life form to disturbance followed by ferns, shrubs, and finally graminoids (Pickering 2010). Furthermore, Hill and Pickering (2009) suggested that a common pattern of resistance across generic plant community types was sand dune grasslands > grasslands > sand dune heaths > forest understory > heaths > herb fields. In fact, many types of dune communities recover quickly from disturbance and exhibit high resistance and resilience (Greenberg et al. 1995; Kutiel, Eden, and Zhevelev 2000; Mangan et al. 2004), providing some support for Hill and Pickering's (2009) ordering of plant community resistance to disturbance. Polar, alpine, and tundra plant community types are generally considered sensitive and fragile to mechanical disturbance with long recovery times following disturbance and low resistance and resilience due to low productivity, short growing seasons, and generally poor soil conditions (Bell and Bliss 1973; Forbes et al. 2005; Willard, Cooper, and Forbes 2007; Pertierra et al. 2013).

These studies have contributed to a suggested order of resistance across ecosystems developed by Pickering (2010) that is as follows: subtropical > alpine > subalpine > arctic > temperate > montane. Perennial species that have the ability to resprout or those with below-ground growing points are usually more resilient than annuals or species that possess above-ground

growth points (Liddle 1975). Shrub-dominated communities with sclerophyllous tissues are frequently classified as one of the most susceptible plant communities to mechanical disturbances and exhibit low RRVAL (Liddle 1997; Whinam and Chilcott 2003; Pickering and Hill 2007; Bernhardt-Römermann et al. 2011; Mason et al. 2015).

Under a given set of mechanical/physical disturbance regimes, vegetation resistance and resilience can also be impacted by a number of abiotic factors. Timing of disturbance can alter vegetation response to damage primarily from the interruption of reproductive processes like flowering and seed set (Cole 2004; Barros, Gonnet, and Pickering 2013). Dzwonko and Loster (1997), Gallet and Rozé (2001), and Lane, Coffin, and Lauenroth (1998) have related resistance and resilience to water availability, soil texture, and level of irradiance. Plant communities adapted to drought are often highly resistant to mechanical disturbance (Andrés-Abellán et al. 2006), whereas plant communities adapted to more mesic conditions appear to be much less resistant (Grime and Campbell 1991; Francis et al. 2005). Several studies suggest that plant communities adapted to clayey soil types are more resistant to mechanical disturbances than those adapted to loamy soil types (Sala et al. 1988; Ludwig et al. 2001). Furthermore, Bernhardt-Römermann et al. (2011) and Mangan et al. (2004) suggest that ecosystem types with long histories of frequent disturbance (grasslands, and one could argue military training lands) will be more resistant and resilient to mechanical disturbance than those where frequent disturbances are uncommon (mature forest understories, bogs, etc.).

The concepts of vegetation resistance and resilience as they relate to recovery are complex, interacting, and depend not only on the individual species attributes (growth form, photosynthetic pathway, growing point location, leaf size, leaf orientation, reproductive strategy, etc.) in the disturbed plant community, but also on a number of abiotic factors that influence ecosystem structure and function. Across a number of studies spanning many years, continents, and ecosystems, it appears that vegetation resistance to mechanical disturbance is dependent on the functional attributes of individual species, which assemble into plant communities and is strongly affected by disturbance history, whereas resilience is more controlled by abiotic factors such as soil texture and water holding capacity, which directly influence regrowth rates and productivity and can be affected by changes and/or variation in climate.

3 Methods and Materials

3.1 Estimation of resistance and resiliency values

A database of vegetation resistance and resilience to traffic was compiled for 737 species from 403 separate references (Yorks et al. 1997), where resistance is defined as the ability of a plant species to withstand traffic before being impaired, and resilience is defined as the capacity of a plant species to regenerate following traffic damage. Values were assigned for each species for each observation on a scale of 1 to 5, where 5 represented an increase in plant cover or biomass and 1 represented disappearance of the species (Yorks et al. 1997).

For comparison, plant species were then grouped into life form, root form, lifespan, phenology, and reproductive pathway. For the purposes of this work, broad functional groups determined from these groupings consisted of deciduous trees, evergreen trees, deciduous shrubs, evergreen shrubs, shrubs (if deciduous or evergreen), forbs, C₃ graminoids and C₄ graminoids. Membership in functional groups was determined from the PLANTS Database (USDA 2015) for non-graminoids, and from Waller and Lewis (1979) and Li, Wedin, and Tieszen (1999) for graminoids. The data provided in Yorks et al. (1997) was then used to develop mean resistance and resilience values for these functional groups (Table 1).

Table 1. Resilience and resistance values assigned to plant functional groups

Plant Functional Group	Resistance	Resilience
Deciduous Tree	3.0	4.2
Evergreen Tree	3.2	2.2
Deciduous Shrub	2.7	3.0
Evergreen Shrub	2.7	2.4
Shrub	2.7	2.8
Forb	3.0	3.5
C ₃ Graminoid	3.6	3.6
C ₄ Graminoid	3.6	4.1

Along with the plant community types for each respective vegetation community grouping, dominant plant species were also obtained (Appendices A and B). Each plant species was assigned a RRVAL based on its functional grouping (Yorks et al. 1997), and then all dominant species in each

community type were averaged to produce a mean RRVAl for each community type (Appendices C and D). Values ranged from 2.83 to 3.6 for the U.S. Geological Survey (USGS) resistance, 2.2 to 4.2 for USGS resilience, 2.7 to 3.6 for Kùchler resistance, and 2.2 to 4.2 for Kùchler resilience (Appendices C and D). These mean values were then scaled on a 0 to 1 scale to allow for simplified comparison and averaging across datasets, and to provide a relative measure of community responses to anthropogenic mechanical disturbance. This was computed by subtracting the lowest value from all values for resilience and resistance in each dataset and then by dividing by the difference between the highest and lowest values (Appendices C and D). These scaled RRVAl were summed to provide a net persistence value, which is a mean measure of the dominant species in a plant community's relative resistance and resilience responses to anthropogenic mechanical disturbance forces (Appendices C and D).

3.2 Plant community data

Plant community types were obtained for the USGS National Vegetation Classification System (NatureServe 2015) and Kùchler Potential Vegetation (Kùchler 1964). The National Vegetation Classification System data provides a snapshot of existing vegetation at a single time point and is a raster-based Geographic Information System (GIS) layer provided by NatureServe. The 30 x 30 meter cell raster dataset provides land cover classification for 574 different land cover classes for the continental United States. The dataset is highly detailed and includes disturbed vegetation areas such as agricultural land, non-native plant dominated community types, and heavily urbanized areas for which RRVAl could not be computed. Therefore, although it provides high resolution in many locations, large areas that have undergone land conversion to agriculture or urbanization have no values assigned and were not assigned a RRVAl. The Kùchler Potential Vegetation data provides a best case scenario for the native vegetation communities most likely to occur in an area regardless of past or current land use or plant invasions. It is a vector dataset digitized from a 1964 Kùchler Potential Vegetation paper map that contains 116 vegetation types across the contiguous United States. While not as highly detailed as the NatureServe classification, it supports RRVAl calculations across the entire region.

Pre-processing of the two GIS datasets was performed using ArcGIS 10.3 (ESRI 2011). First, the Kuchler spatial layer was converted to a raster with the same cell size as the Nature Serve raster file by snapping the Kuchler spatial layer to the Nature Serve raster file. To simplify analyses, the Kuchler and NatureServe raster files were combined into a single raster.

The RRVAL for the NatureServe and the Kuchler vegetation communities were joined to the Combined raster layer. Each raster cell of the Combined raster data included information on the NatureServe and Kuchler vegetation communities, as well as their corresponding RRVAL. Because of the differences between the Kuchler and NatureServe datasets, the resistance, resilience, and RRVAL were averaged from the two datasets. In this way, the higher resolution of the National Vegetation Classification System was combined with the complete coverage of the Kuchler Potential Vegetation.

3.3 Data analysis

To compare the Combined RRVAL to the values in Doe et al. (1999), the average values for the Kuchler, NatureServe, and Combined maps were calculated for each Bailey Ecoregion. The Combined RRVAL were compared to the values in Doe et al. by calculating the correlation between the derived values. In addition, the Combined RRVAL and assigned values were binned based on the distribution of values in Doe et al. across Ecoregions. Doe et al. assigned three ecoregions to the Category 1, 10 to the Category 2, 4 to the Category 3, and 3 to the Category 4.

The Combined RRVAL for 56 installations were estimated using the same methods outlined above. As for the ecoregions, the correlation between both the raw RRVAL for the installations and the Doe et al. values were calculated, and the installation RRVAL were binned with the same distribution. In this case, Doe et al. (1999) assigned six installations to Category 1, 17 to Category 2, 28 installations to Category 3, and 5 to the Category 4.

4 Results and Discussion

4.1 General results

This chapter provides maps that illustrate the different resistance and resiliency evaluations, describe correlations between the different methods for estimating RRVAL, and describe possible implications to the Army and its installations' ability to provide MAC.

The Kuchler, NatureServe, and Combined RRVAL all identified the Temperate Steppe and Prairie Divisions as the two divisions with the highest RRVAL (Figures 2, 3, and 4). These areas are in the interior of the continent with relatively gentle topography, loamy soils, and graminoid dominated plant communities. The Division with the lowest RRVAL was the Temperate Desert Mountains. Additionally, Marine Mountains and the Marine Division were identified as having low RRVAL, although the Kuchler RRVAL identified the Tropical/subtropical Desert Division as having a low RRVAL as well. The following paragraphs discuss the individual results from the maps.

For the the Kuchler Potential Vegetation Map, the ecoregions with the highest resistance values were Temperate Steppe Division, Prairie Division, and the Mediterranean Division (Table 2). These areas are widespread across the United States (Figure 5). The lowest resistance values were found in the Temperate Desert Mountains and Tropical/Subtropical Desert. The Hot Continental, Prairie, and Hot Continental Mountain Divisions had the highest resiliency values. The lowest resiliency values, which were in the Marine Mountain and Temperate Desert Mountain Divisions (Table 2), covered a larger area than the low resistance values in the Southwest (Figure 5). The Temperate Steppe, Prairie, and Hot Continental Divisions had the highest the Kuchler RRVAL (Table 2).

Figure 2. Kuchler vegetation resistance and resilience map for the United States. High values denote resistance and resilience to trampling and vehicular disturbance.

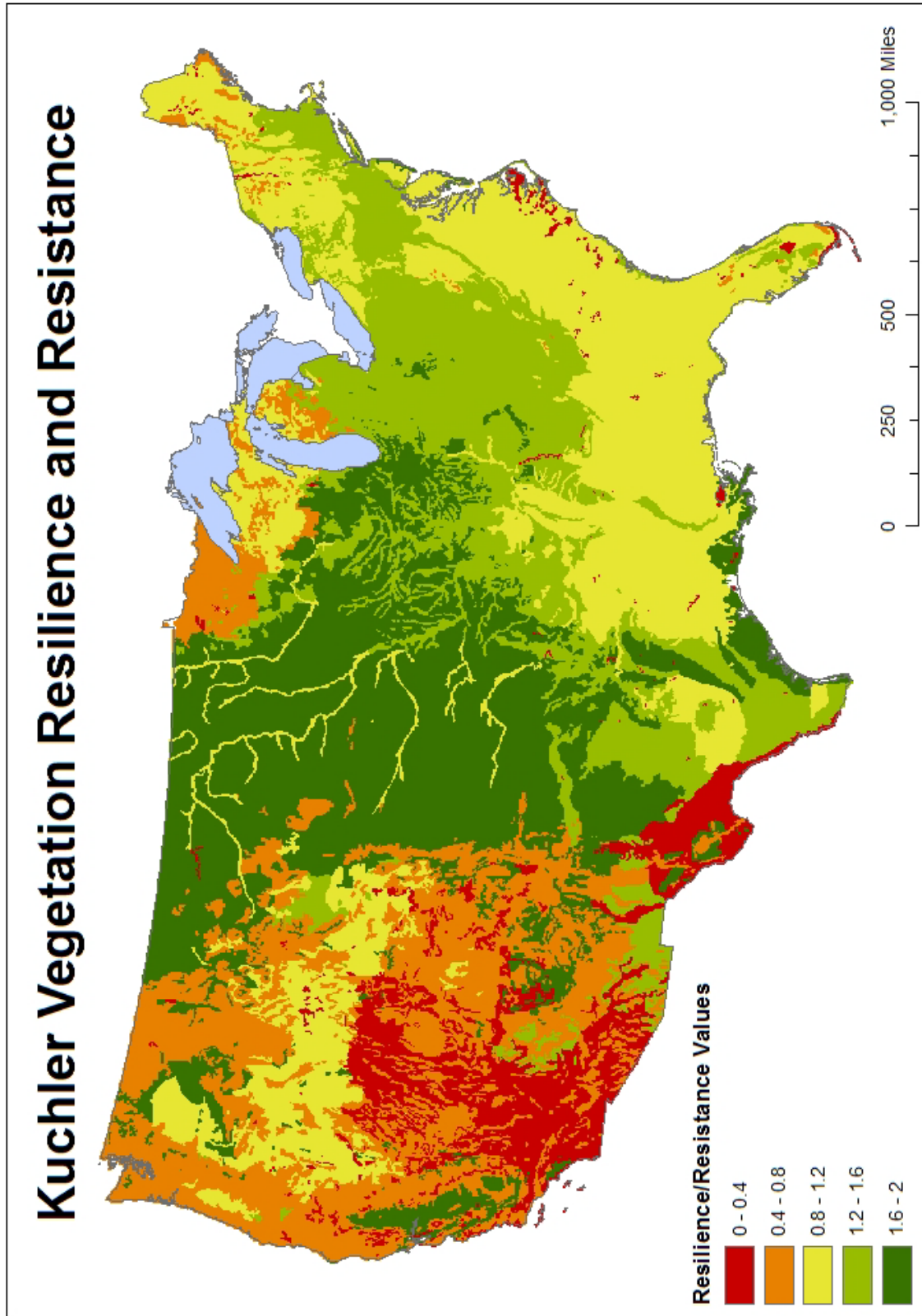


Figure 3. NatureServe vegetation resistance and resilience map for the United States. High values denote resistance and resilience to trampling and vehicular disturbance.

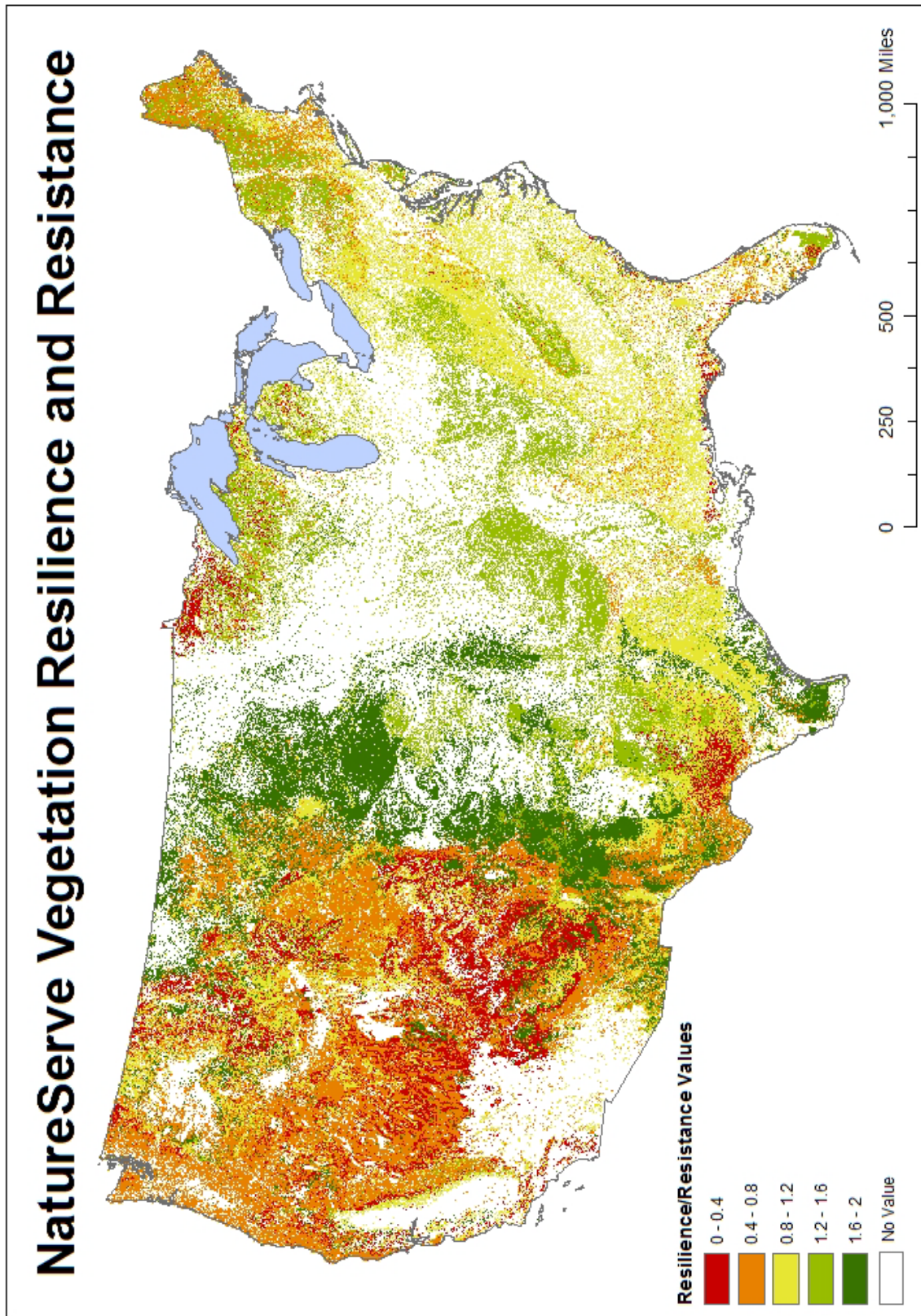


Figure 4. Average vegetation resistance and resilience values based on the Combined Küchler and NatureServe Vegetation maps.

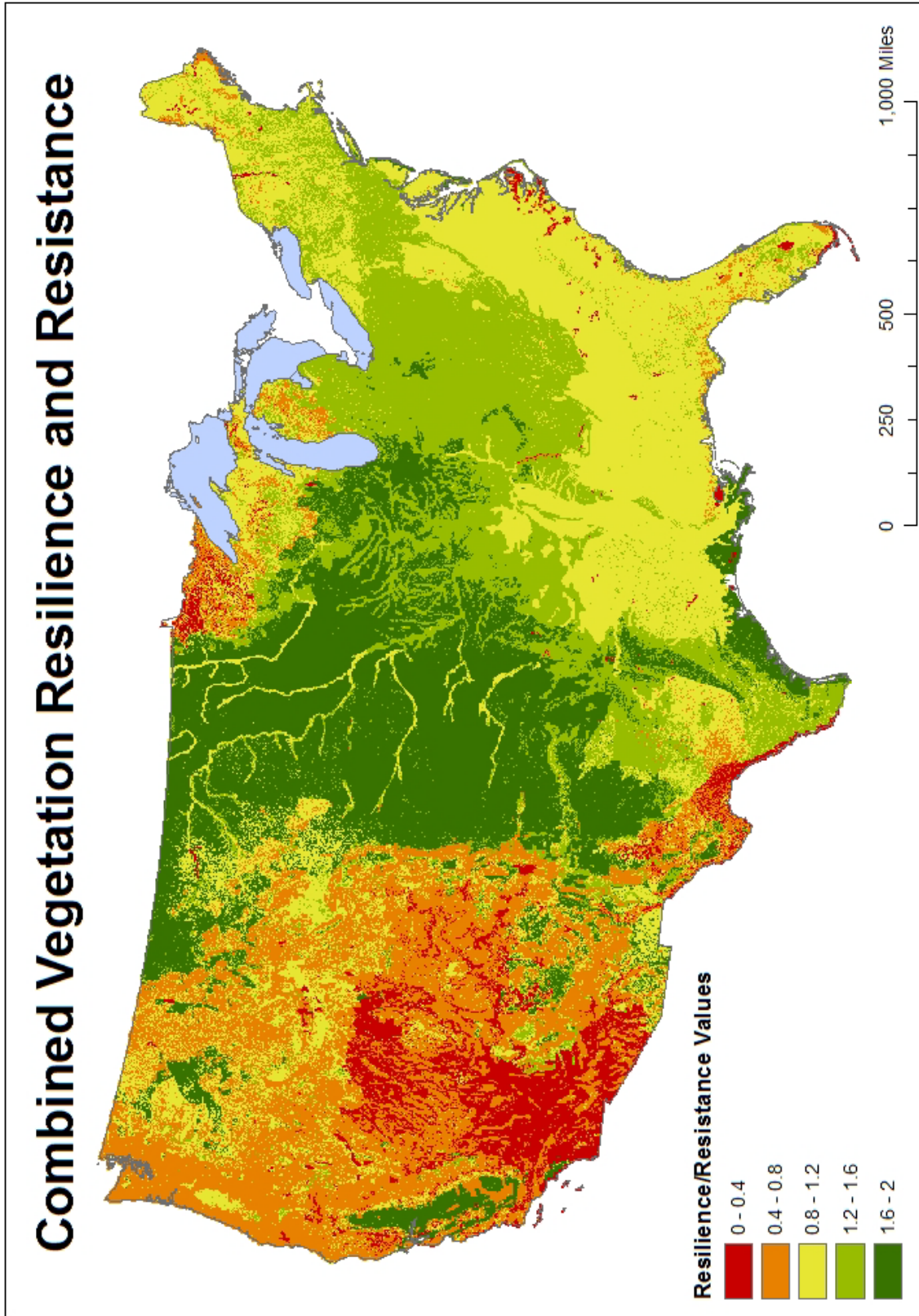


Table 2. Mean RRVAL for the K uchler, NatureServe, and Combined vegetation maps across Bailey Ecoregions (Bailey 1980). Doe values refer to average subject matter value. Multiple Doe values represent ecoregions that contained multiple resiliency values (see Doe et al. 1999).

Bailey Ecoregion	Code	K�uchler	NatureServe	Average	Doe Value
		RRVAL	RRVAL	RRVAL	
Hot Continental	1	1.36	1.15	1.25	3
Hot Continental Mountains	2	1.25	1.09	1.17	3
Marine	3	0.65	0.60	0.63	4
Marine Mountains	4	0.66	0.58	0.62	4
Mediterranean	5	1.13	0.62	0.88	2
Mediterranean Mountains	6	0.62	0.64	0.63	2
Prairie	7	1.65	1.38	1.51	3,4
Savanna	8	0.84	1.05	0.94	2
Subtropical	9	1.04	1.02	1.03	2,3
Subtropical Mountains	10	1.01	1.20	1.10	2
Temperate Desert	11	0.69	0.65	0.67	1
Temperate Desert Mountains	12	0.37	0.56	0.46	1
Temperate Steppe	13	1.72	1.51	1.62	2,4
Temperate Steppe Mountains	14	0.78	0.81	0.79	2
Tropical/Subtropical Desert	15	0.52	1.00	0.76	1
Tropical/Subtropical Steppe	16	1.28	1.13	1.20	2
Tropical/Subtropical Steppe Mountains	17	0.83	0.94	0.89	2
Warm Continental	18	0.92	0.94	0.93	3
Warm Continental Mountains	19	1.00	1.02	1.01	3

Figure 5. Kuchler vegetation resistance and resilience maps for the United States. High values denote resistance to trampling and vehicular disturbance.

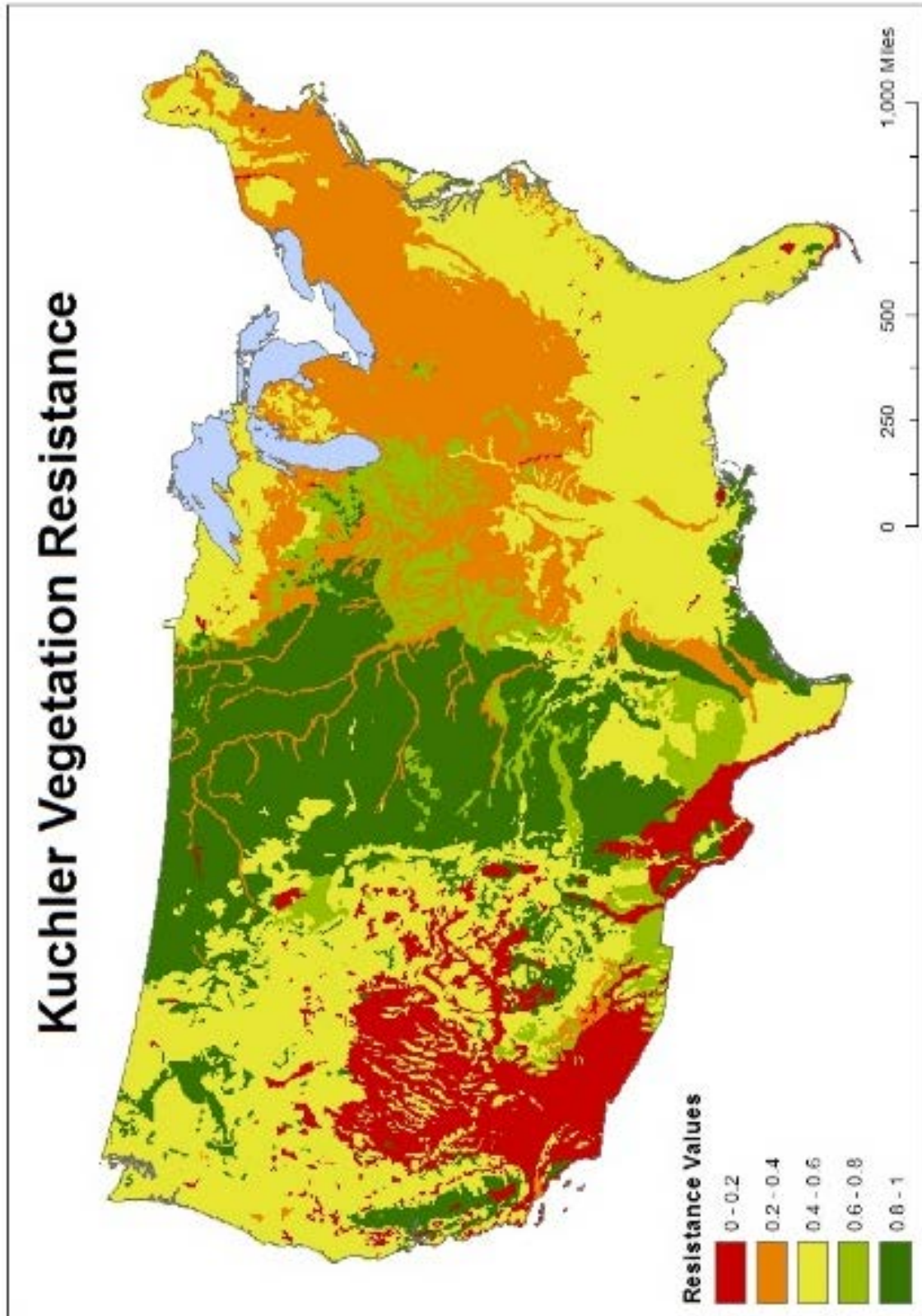
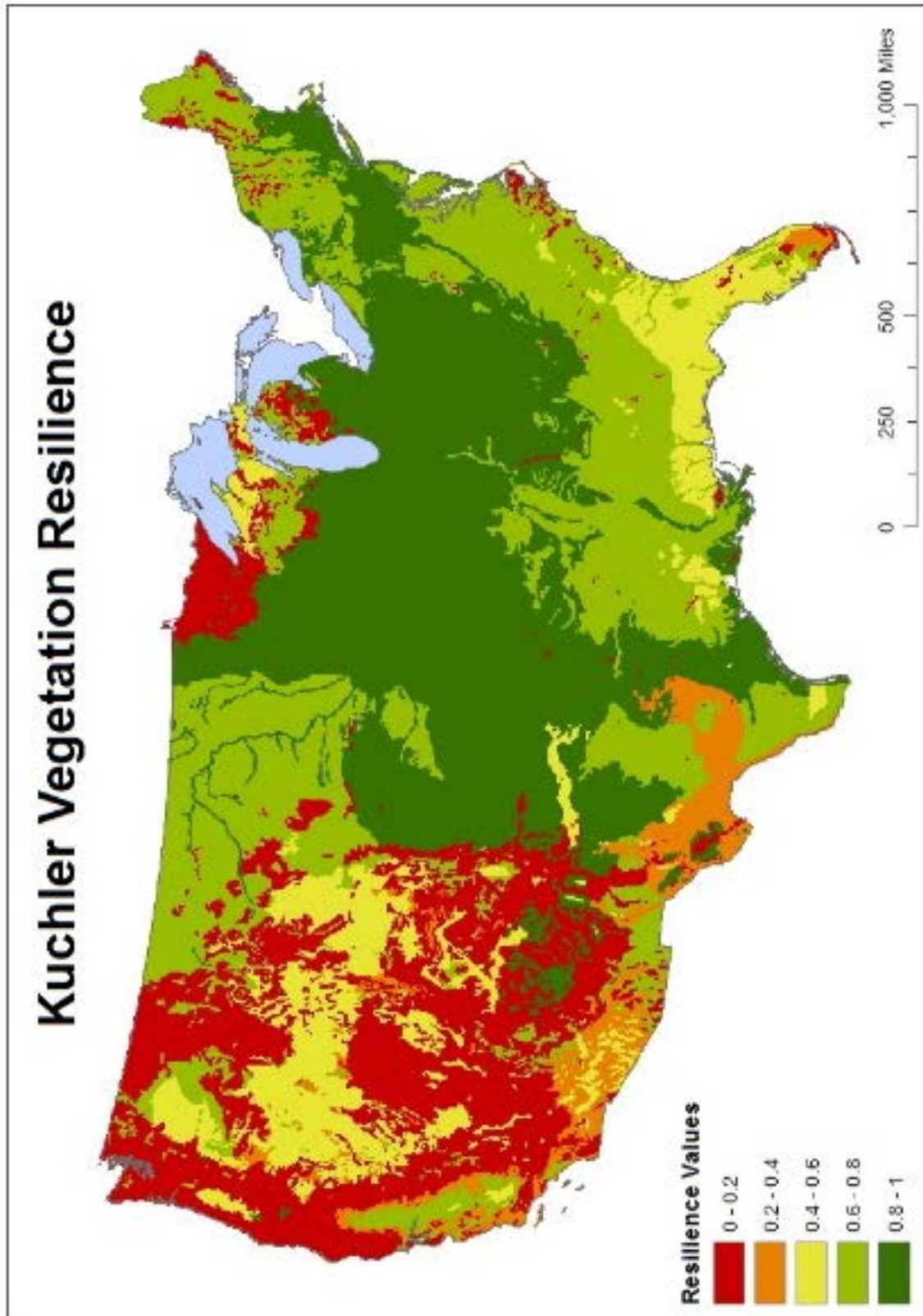


Figure 5. (Cont'd.).



Resistance values based on the NatureServe natural vegetation map of the United States identified the Temperate Steppe, Prairie, and Savanna Divisions as having the highest resistance values; and the Warm Continental, Temperate Desert Mountains and Hot Continental Divisions as having the lowest resistance values (Figure 6). Resilience values based on the NatureServe natural vegetation map of the United States identified the Hot Continental, Subtropical Mountains, and Prairie Divisions as the three regions with the highest resistance values (Appendix E, Table E-1, p 145).

The correlation between the NatureServe and Küchler resistance values was 0.15; the correlation between the resilience values was 0.03. These low correlation values should not come as an unexpected surprise given that the Küchler dataset represents potential natural plant communities irrespective of past disturbance history, whereas NatureServe is a contemporary snapshot of current plant communities, both disturbed and undisturbed, without regard to potential. In addition, the Küchler Potential Vegetation Map is drawn at a much coarser scale and does not capture the full range of vegetation communities. For example, riparian areas in the Prairie and Savanna Divisions would receive the same resistance and resilience values as would the actual prairie and savanna communities.

The average of the Küchler and NatureServe resistance maps (hereafter referred to as “Combined”) identified the Temperate Steppe, Prairie, and Tropical/Subtropical Steppe Divisions as having the highest resistance values (Figure 7). The Hot Continental, Prairie, and Hot Continental Mountains Divisions had the highest resilience values, while the Temperate Desert, Marine, and Marine Mountains Divisions had the lowest (Appendix E, Table E-1, p 145). The Combined RRVAL identified the Temperate Steppe, Prairie, and Hot Continental Divisions as having the highest values; and the Temperate Desert Mountains, Marine Mountains, and the Mediterranean Mountains as having the lowest values (Figure 4).

Figure 6. NatureServe vegetation resistance and resilience maps for the United States. High values denote resistance to trampling and vehicular disturbance.

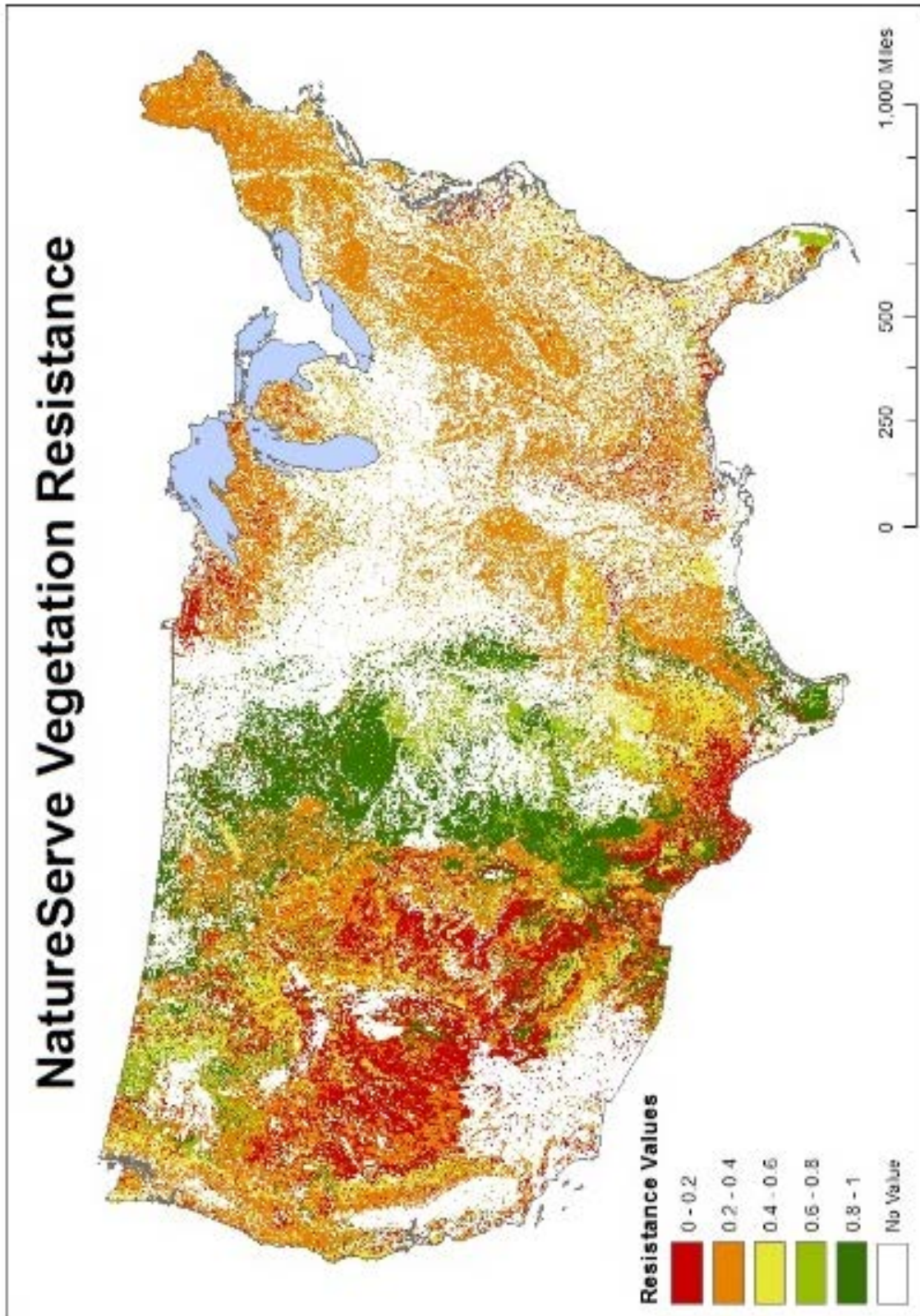


Figure 6. (Cont'd.).

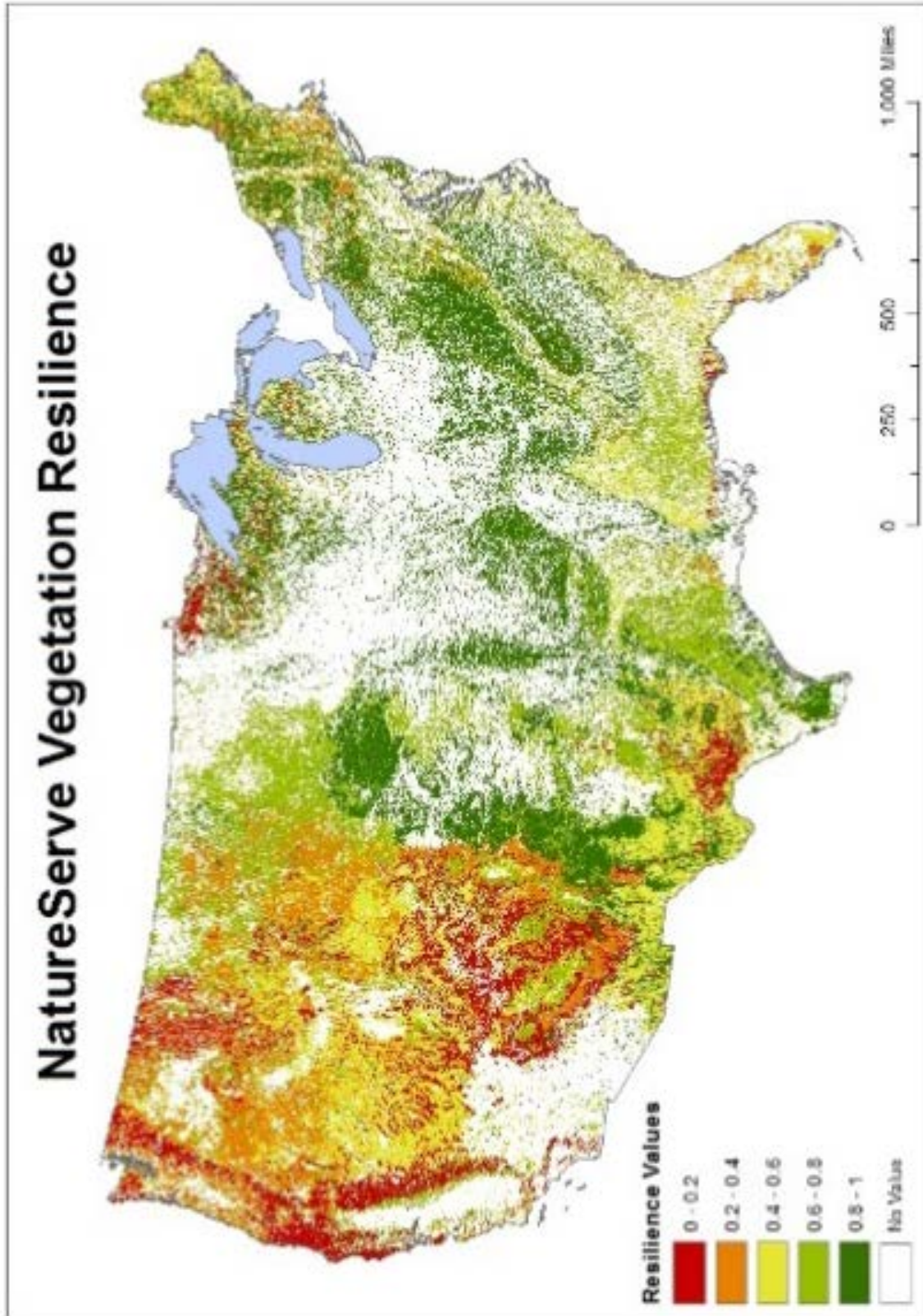


Figure 7. Combined Küchler and NatureServe Vegetation resistance and resilience maps. High values denote resistance to trampling and vehicular disturbance.

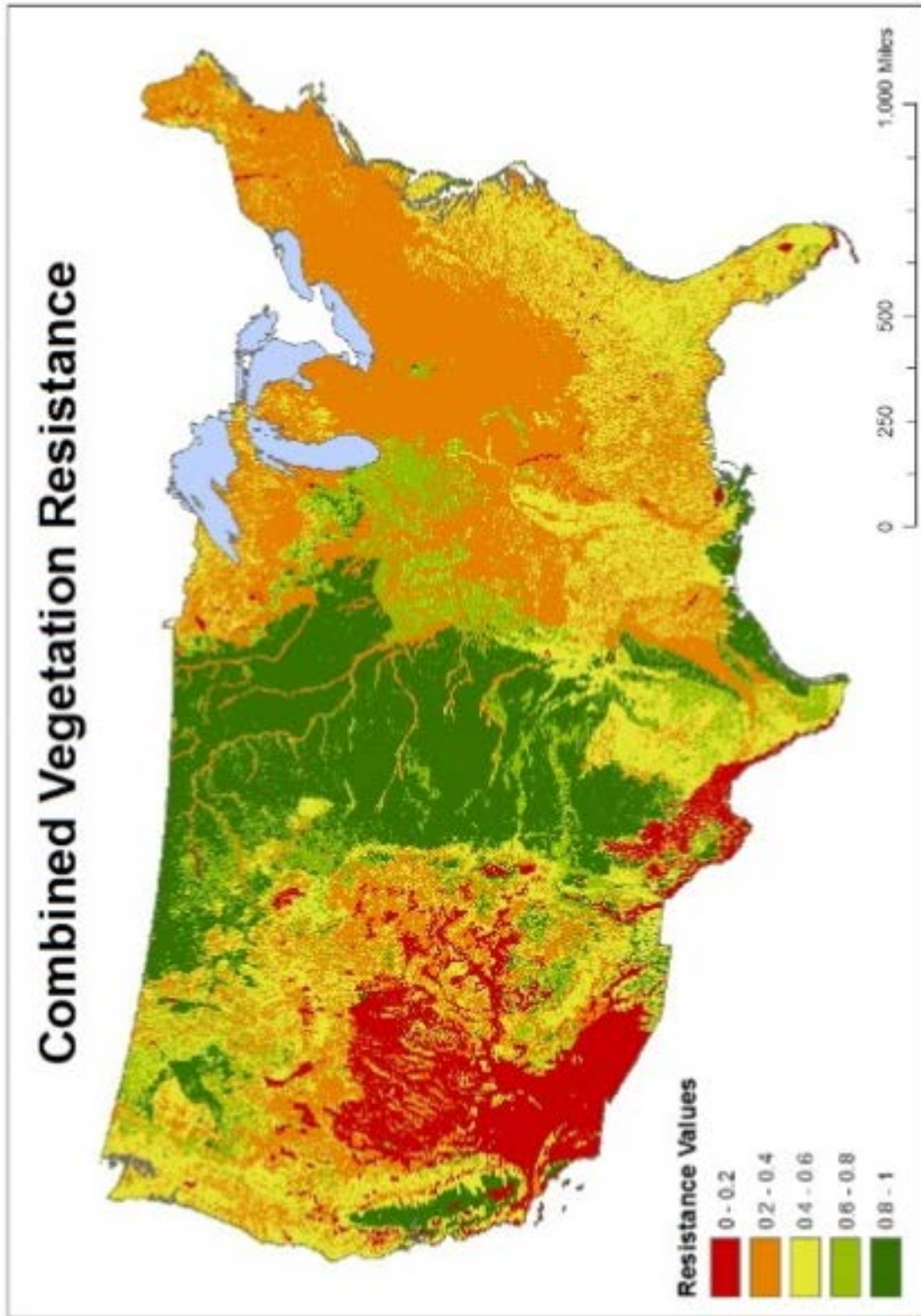
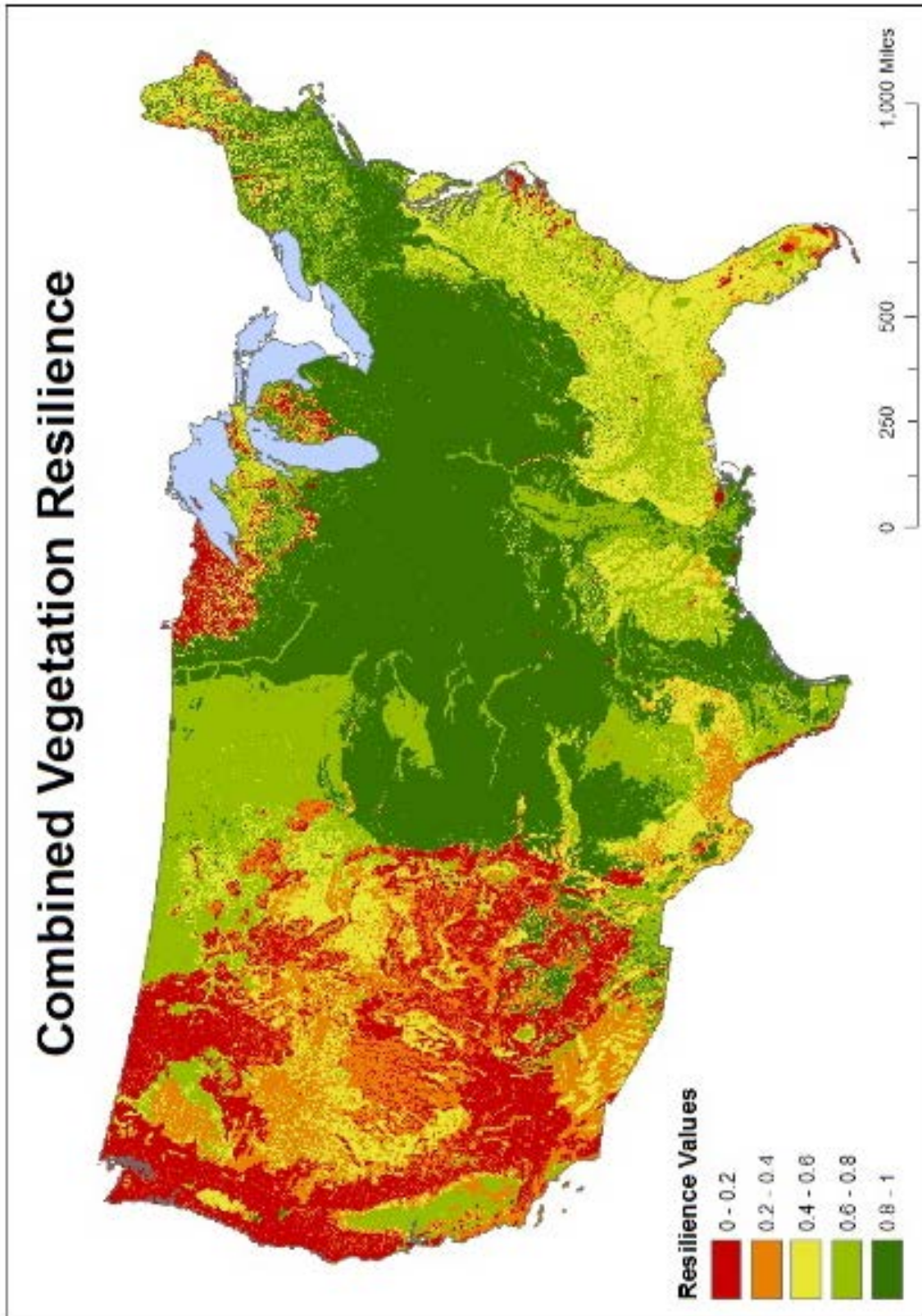


Figure 7. (Cont'd.).



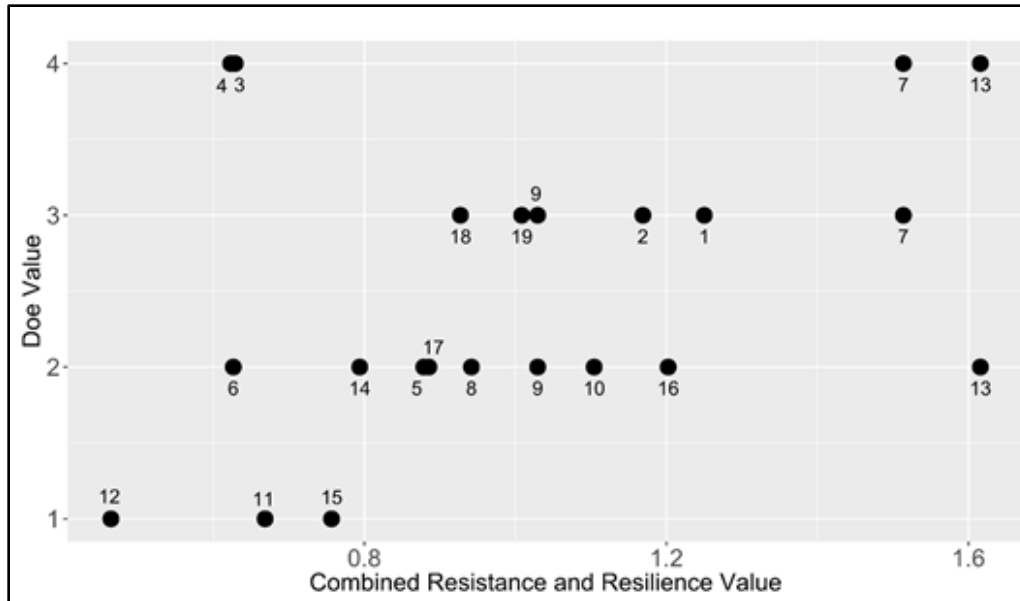
The correlation between the average RRVAl and the Doe (1999) values was 0.36 before the removal of three outlier regions. The relatively low correlation between the two maps was the result of three outlier Divisions. Doe et al. (1999) estimated the Marine Division and the Marine Mountains as being of high resilience (with a value of 4). Doe et al. also provided two resilience values (2, 4) to the Temperate Steppe Division. Values from the current study estimated these as having low RRVAl (in the case of the Marine and Marine Mountains Division) and high RRVAl (in the case of the Temperate Steppe Division).

It is likely that this current model underestimates Marine Division. The soils are silty loams in a relatively flat landscape that were historically prairies between the Coastal and Cascade Ranges in Pacific Northwest. It is also likely that Doe et al. (1999) overestimated the resilience of the Marine Mountains by combining the Marine Division with the Marine Mountains. Finally, there is a precipitation gradient across the Temperate Steppe Division, in which the western half is drier relative to the eastern half. By dividing it, Doe et al. were likely trying to incorporate this information. When these three outliers were removed, the correlation between the values in Doe et al. (1999) and the RRVAl was 0.82 (Figure 8), suggesting that the different sources were generally consistent between evaluations. Comparison of the binned values and the values in Doe et al. (1999) yielded a correlation of 0.33, similar to correlation between the RRVAl and the Doe values.

4.2 Implications for the Army

The Army is interested in how installations compare across training metrics as it determines the portfolio of installations that can best meet its future training requirements. Historically, the Army uses multiple metrics to compare installations, for example, training, cost, facilities, and quality of life metrics (Ewing, Tarantino, and Parnell 2006). These metrics are static in that they do not provide a defensible way to account for change over time. This work has shown that lands have non-static RRVAl, which will help the Army evaluate training lands over time as installation conditions change.

Figure 8. Correlation between the K uchler and NatureServe RRVAL and the ecosystem resilience values as estimated using subject matter expert opinion in Doe et al. (1999). Numbers refer to Bailey Ecoregions (Bailey 1980: See Fig. 1). Correlation is 0.39. After the removal of three outlier ecoregions (3, 4, and 13; data not shown.) correlation was 0.83.



Army installations have a history of land disturbances due to training impacts. It appears that vegetation resistance to such disturbance is dependent on the functional attributes of individual species, which assemble into plant communities and are strongly affected by this disturbance history. The ability of Army lands to recover from disturbances, i.e., their resilience, is more controlled by abiotic factors such as soil texture and water holding capacity, which directly influence regrowth rates and productivity and can be affected by changes and/or variation in climate.

Pinon Canyon, CO, Fort Riley, KS, Fort Sill, OK, and Parks Reserve Forces Training Area, CA were in the top 10 of all installations, regardless of the data source, while National Training Center (NTC) and Fort Irwin, CA, Infantry Training Camp (ITC) Camp San Luis Obispo, CA, Fort Lewis, WA, Florence Military Reservation (FMR), AZ, Fort Hunter-Liggett, CA, and Maneuver Training Center-H (MTC-H) Camp Grayling, MI were in the bottom (Appendix E, Table E-1, p 145). Overall, 42 of the 56 installations had a change in rank of six or less between the K uchler, NatureServe, and Combined maps. Fort McCoy, WI, Fort Carson, CO, Camp Ashland, NE, and Fort Bragg, NC had the greatest change in rank, averaging 29, 27, 14, and 13, respectively.

The correlation of the resistance values between the Küchler Potential Vegetation Map and the NatureServe Vegetation Map was 0.63, higher than the ecoregion-level correlation. This is likely due to the reduced vegetation heterogeneity at the installation scale, compared to the entire ecoregion. Parks Reserve Forces Training Area, CA, Pinon Canyon, CO, and Fort Riley, KS had the highest resistance values based on the Küchler Potential Vegetation Map, while the top three resistance values based on the NatureServe Vegetation Map were Pinon Canyon, CO, Camp Perry, OH, and Fort Riley, KS. Several outliers were identified. For example, Camp Perry, OH had a resistance value of 0.92 according to NatureServe, but a relatively low value of 0.33 based on the Küchler potential vegetation map. The correlation of the resilience values between the Küchler Potential Vegetation Map and the NatureServe Vegetation Map was 0.66, higher than for the resistance values. However, the NatureServe resilience values had a lower kurtosis relative to Küchler values. Küchler resilience values were 1 (the highest) for 15 installations, while NatureServe resilience values were highest for Fort Campbell, KY, Camp Atterbury, IN, and Camp Crowder, MO. The Combined resistance values identified Pinon Canyon, CO, Fort Riley, KS, and Parks Reserve Forces Training Area, CA, while the Combined resilience values identified five installations as having an average resistance value of 1.

While many of the installation level rankings match subject matter expert opinion, there are notable exceptions. Fort Lewis, WA in the Marine Division, was assigned low RRVAl by both the Küchler and NatureServe vegetation maps, even though the installation is considered one of the highest ranking installations in terms of resistance to mechanical disturbance and vegetation resilience. As discussed above, there are likely reasons for the low RRVAl for the Marine Division and, by extension, Fort Lewis, WA. The current study estimated Fort Sill, OK to have a high RRVAl and rank (Table 3), yet Doe et al. (1999) gave the installation a value of 2 (low to moderate resistance). Table 4 lists the top 10 installations ranked according to the Combined RRVAl values.

One of the benefits of incorporating the NatureServe resistance and resilience values into the index is that it allows for the estimation of higher resolution maps, thus allowing for intra-installation level exploration of RRVAlS (Figures 9 and 10). For example, RRVAl based on the Küchler map for Fort Benning, GA would be a single value because of the relatively

coarse resolution of the data. Using the NatureServe RRVAL correctly identifies wetland areas that have lower RRVAL relative to the upland areas. These maps can be quickly generated and would allow land managers to spatially identify training lands that would be more or less resilient.

Table 3. Installation Doe values and Combined resistance and resilience values (current study).

Installation	Division	Doe	Combined	Change
Camp Ashland	Prairie Division	4	3	-1
Camp Atterbury	Hot Continental Division	3	3	0
Camp Blanding	Subtropical Division	2	2	0
Camp Bowie	Tropical/Subtropical Steppe Division	2	2	0
Camp Bullis	Tropical/Subtropical Steppe Division	2	2	0
Camp Clark	Prairie Division	4	3	-1
Camp Dawson	Hot Continental Mountains	3	3	0
Camp Maxey	Prairie Division	3	3	0
Camp Minden Training Site (TS)	Subtropical Division	3	2	-1
Camp Perry TS (Combat Training Center [CTC])	Hot Continental Division	3	4	1
Camp Ripley	Hot Continental Division	3	2	-1
Camp Swift	Prairie Division	3	3	0
Camp Villere TS	Subtropical Division	2	1	-1
Caswell Training Site	Warm Continental Division	3	2	-1
Florence	Tropical/Subtropical Desert Division	1	1	0
Fort A P Hill	Subtropical Division	3	2	-1
Fort Benning	Subtropical Division	3	3	0
Fort Bliss	Tropical/Subtropical Steppe Mountains	2	3	1
Fort Bragg	Subtropical Division	3	3	0
Fort Campbell	Hot Continental Division	3	3	0
Fort Carson	Temperate Steppe Division	2	3	1
Fort Chaffee Maneuver Training Center (MTC)	Hot Continental Mountains	3	3	0
Fort Dix	Hot Continental Division	3	3	0
Fort Drum	Warm Continental Division	3	3	0
Fort Hood	Tropical/Subtropical Steppe Division	2	3	1
Fort Huachuca	Tropical/Subtropical Desert Division	1	2	1

Installation	Division	Doe	Combined	Change
Fort Hunter-Liggett	Mediterranean Division	2	1	-1
Fort Indiantown Gap	Hot Continental Mountains	3	3	0
Fort Jackson	Subtropical Division	3	3	0
Fort Knox	Hot Continental Division	3	3	0
Fort Leonard Wood	Hot Continental Division	3	3	0
Fort Lewis	Marine Division	4	1	-3
Fort McCoy	Hot Continental Division	3	2	-1
Fort Pickett	Subtropical Division	3	3	0
Fort Polk	Subtropical Division	2	2	0
Fort Riley	Prairie Division	4	4	0
Fort Rucker	Subtropical Division	3	2	-1
Fort Sill	Tropical/Subtropical Steppe Division	2	4	2
Fort Stewart	Subtropical Division	2	2	0
Fort Wolters	Prairie Division	3	3	0
Hunter Army Airfield	Subtropical Division	2	2	0
ITC Camp San Luis Obispo	Mediterranean Division	2	1	-1
Marseilles Military Training Area (MTA)	Prairie Division	4	3	-1
Milan Army Ammunition Plant (AAP)	Hot Continental Division	3	3	0
MTA Camp Crowder Neosho	Hot Continental Division	3	3	0
MTA Camp Shelby	Subtropical Division	2	2	0
MTC-H Camp Grayling	Warm Continental Division	3	2	-1
NTC and Fort Irwin	Tropical/Subtropical Desert Division	1	1	0
Orchard Training Area	Temperate Desert Division	1	2	1
Parks Reserve Forces Training Area	Mediterranean Division	2	4	2
Pinon Canyon	Temperate Steppe Division	2	4	2
Ravenna Training and Logistics Site	Hot Continental Division	3	3	0
Volunteer Training Site (VTS) Catoosa	Hot Continental Division	3	3	0
VTS Tullahoma	Hot Continental Division	3	3	0
Wappapello Training Site	Hot Continental Division	3	3	0
Yakima Training Center	Temperate Desert Division	1	2	1

Figure 9. Average vegetation resistance and resilience values for Fort Benning Military Reservation (Georgia). Separate resistance and resilience values are included in Appendices D and E.

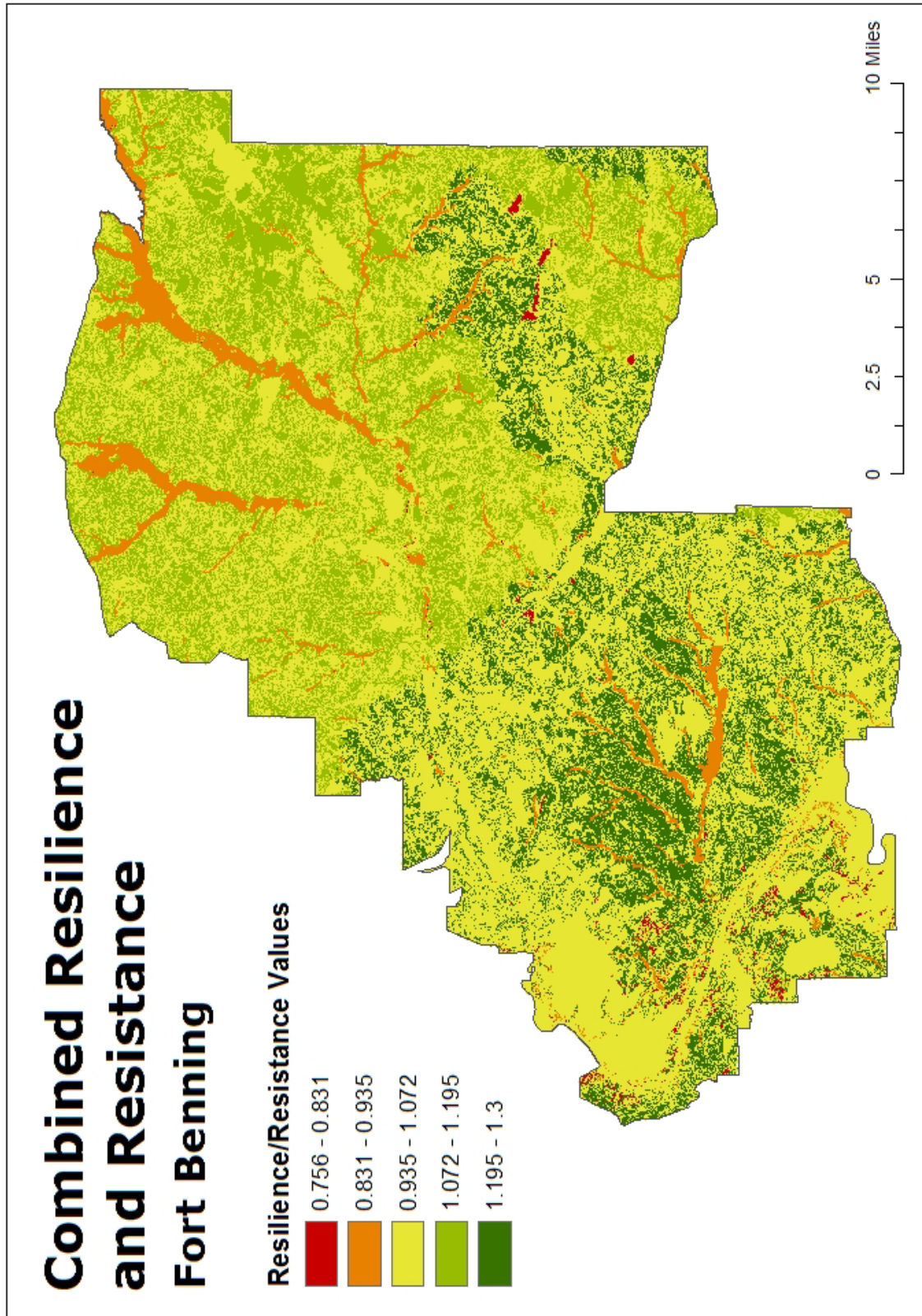


Figure 10. Combined Küchler and NatureServe Vegetation resistance and resilience maps for Fort Benning Military Reservation (Georgia).

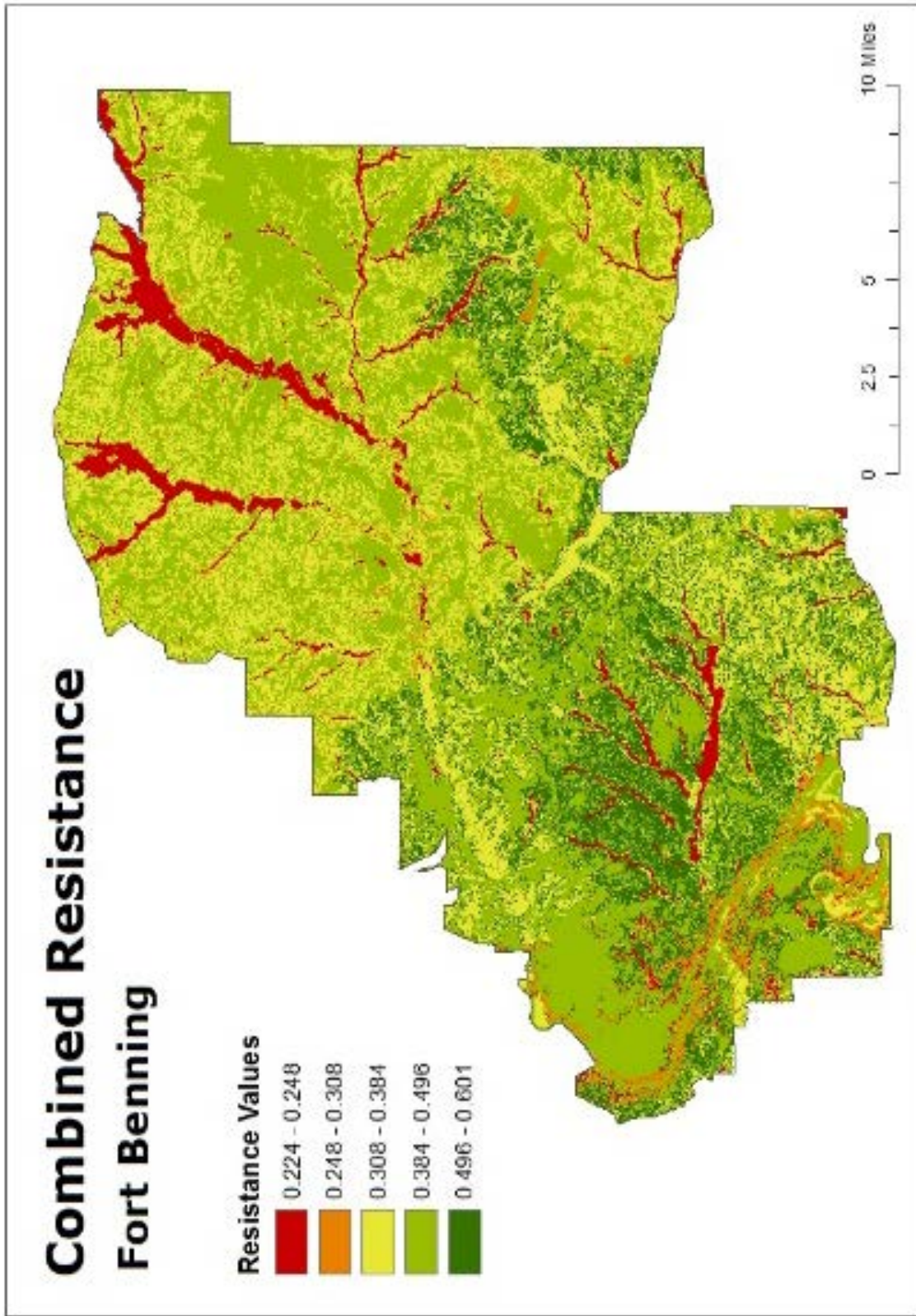


Figure 10. (cont'd).

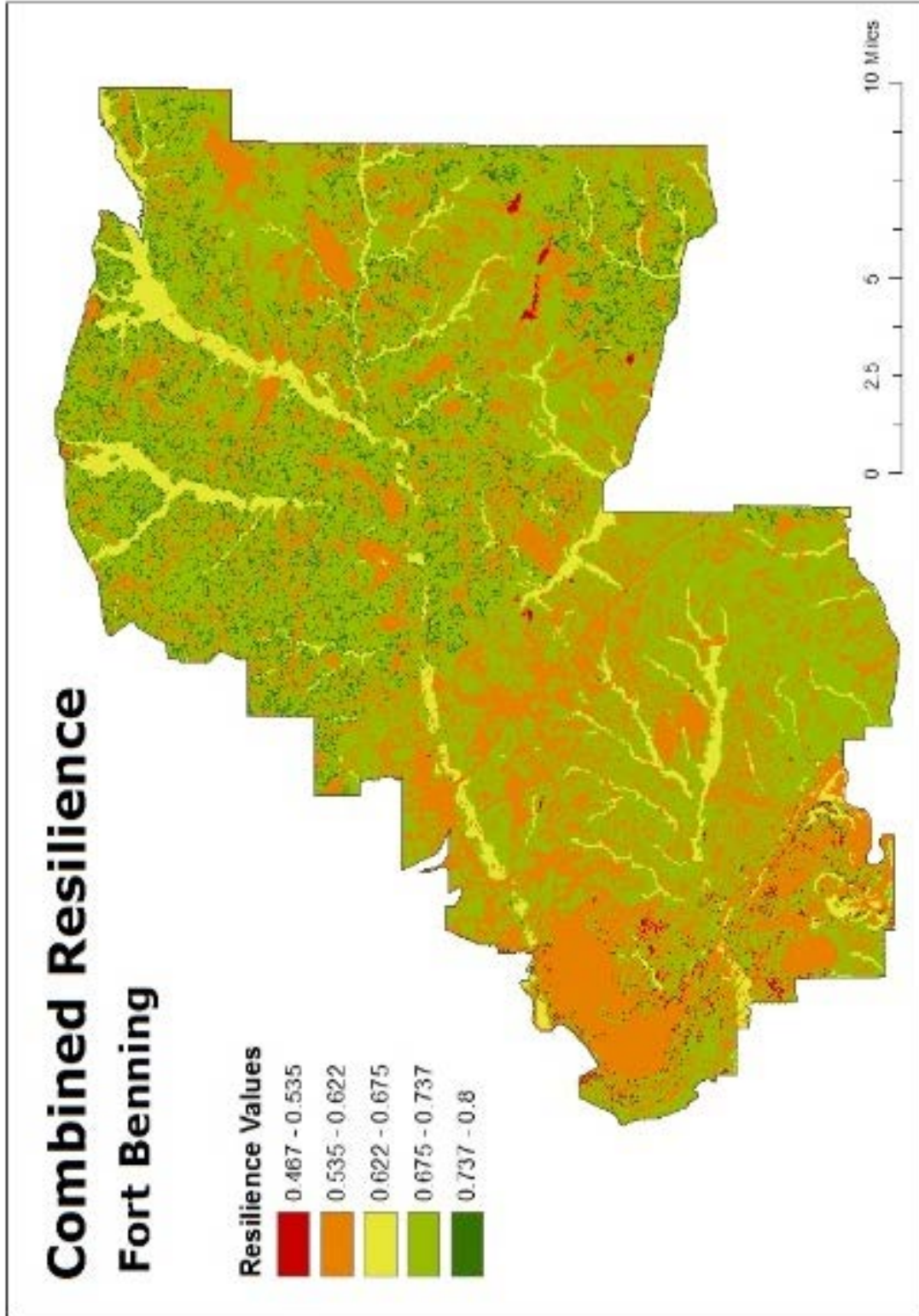


Table 4. Top 10 installations ranked according to the Combined RRVAL values; K uchler and NatureServe are provided for reference. Full data are available in Appendices D and E.

Installation	K�uchler Rank	NatureServe Rank	Combined Rank
Pinon Canyon	1	1	1
Fort Riley	2	2	2
Fort Sill	3	7	3
Parks Reserve Forces Training Area	4	8	4
Camp Perry TS (CTC)	9	3	5
Camp Clark	5	11	6
VTS Tullahoma	10	4	7
Fort Wolters	6	24	8
Fort Campbell	7	12	9
Fort Knox	8	22	10

5 Conclusions

It is well-known that temperature and precipitation patterns are one of the main determinants of vegetation patterns (Whittaker 1975). This being the case, it is expected that projected climate change will have an impact on the spatial distribution of vegetation, both of individual species and community assemblages. These projected shifts in vegetation could lead to changes in training area resilience and recovery capabilities, which can, in turn, change the value of training lands to the Army.

This research defined a metric that is amenable to shifting vegetation patterns under projected global climate change. Specifically, dominant plant species for numerous plant communities, resistance and resilience values for plant functional groups, and national community vegetation maps were used to estimate resistance and resilience for the continental United States. Two different datasets were used:

1. NatureServe, a highly detailed dataset representing existing vegetation that contained categories for heavily altered lands with no discernible resistance and resilience values
2. Küchler, a more broadly defined dataset that contained potential vegetation, but provided resistance and resilience values for all land areas.

By combining these datasets, greater detail was obtained along with values for all land areas. The benefits of combining these datasets to develop resistance and resilience values lies in the fact that NatureServe (2015) is more contemporary and represents a snapshot of current plant community composition, whereas Küchler (1964) is an older, historic, and ecologically based dataset suggestive of potential plant community types irrespective of historical or current disturbance. This combination allows for plant community resistance and resilience values that better reflect the current status of Army training lands by capturing historical training disturbances in the context of current plant community composition.

The benefits of combining NatureServe and Küchler datasets provide an objective method to:

1. Assign resistance and resilience values to individual training areas within an installation (see Fort Benning example in Figure 10) to identify areas that may have training impacts

2. Identify areas that are likely to have higher per-area maintenance costs based on resilience and resistance values
3. Estimate land rehabilitation and maintenance costs and potential training impacts for the purpose of supporting Army decisions on land usage and unit stationing
4. Provide comparable metrics across all Army locations, which makes it useful for installation portfolio analyses like strategic stationing studies.

This work correlated Combined RRVAL at the ecoregion scale with subject matter expert opinion estimates of resiliency (Doe et al. 1999), with a few notable exceptions. The Marine and Marine Mountain Divisions were estimated to have high Combined RRVAL; estimates by Doe et al. were high for both of these divisions. In addition, Doe et al. estimated part of the Temperate Steppe Division to have a low to moderate resiliency, while the entire Division had a high Combined RRVAL in the current study. The removal of these three outliers increased the correlation from 0.36 to 0.82.

Individual installations can be valued and compared. For example, Pinon Canyon, CO, Fort Riley, KS, Fort Sill, OK, and Parks Reserve Forces Training Area, CA were in the top 10 of all installations, regardless of the data source, while NTC and Fort Irwin, CA, ITC Camp San Luis Obispo, CA, Fort Lewis, WA, Florence Military Reservation, AZ, Fort Hunter-Liggett, CA, and MTC-H Camp Grayling, MI were in the bottom. Overall, 42 of the 56 installations had a change in rank of six or less between the Kuchler, NatureServe, and Combined maps. Fort McCoy, WI, Fort Carson, CO, Camp Ashland, NE, and Fort Bragg, NC had the greatest change in rank, averaging 29, 27, 14, and 13, respectively.

This research provides a scientifically defensible RRVAL estimate for natural vegetation communities across the United States including CONUS military installations. Using the described methods, the Army could use the resulting RRVAL for comparative installations studies to determine the portfolio with the greatest training potential and MAC.

Appendix A: Summary Tables

Table A-1. Resistance, resilience, and resistance and resilience values based on Küchler Potential Vegetation Map, NatureServe vegetation community map, and summation of the Küchler and NatureServe values.

Bailey Ecoregion	Küchler			NatureServe			Combined		
	Resist	Resil	Resist+Resil	Resist	Resil	Resist+Resil	Resist	Resil	Resist+Resil
Hot Continental	0.41	0.94	1.36	0.26	0.88	1.15	0.34	0.91	1.25
Hot Continental Mountains	0.36	0.89	1.25	0.26	0.83	1.09	0.31	0.86	1.17
Marine	0.52	0.13	0.65	0.31	0.29	0.60	0.42	0.21	0.63
Marine Mountains	0.58	0.08	0.66	0.35	0.23	0.58	0.47	0.16	0.62
Mediterranean	0.68	0.46	1.13	0.35	0.27	0.62	0.52	0.36	0.88
Mediterranean Mountains	0.46	0.16	0.62	0.34	0.30	0.64	0.40	0.23	0.63
Prairie	0.71	0.94	1.65	0.53	0.84	1.38	0.62	0.89	1.51
Savanna	0.52	0.32	0.84	0.53	0.51	1.05	0.53	0.42	0.94
Subtropical	0.44	0.60	1.04	0.31	0.71	1.02	0.37	0.66	1.03
Subtropical Mountains	0.42	0.59	1.01	0.34	0.86	1.20	0.38	0.73	1.10
Temperate Desert	0.37	0.32	0.69	0.26	0.39	0.65	0.32	0.35	0.67
Temperate Desert Mountains	0.27	0.09	0.37	0.22	0.34	0.56	0.25	0.22	0.46
Temperate Steppe	0.92	0.79	1.72	0.79	0.72	1.51	0.86	0.76	1.62
Temperate Steppe Mountains	0.61	0.17	0.78	0.42	0.39	0.81	0.51	0.28	0.79
Tropical/Subtropical Desert	0.21	0.31	0.52	0.40	0.60	1.00	0.30	0.45	0.76
Tropical/Subtropical Steppe	0.67	0.61	1.28	0.52	0.61	1.13	0.60	0.61	1.20
Tropical/Subtropical Steppe Mountains	0.62	0.21	0.83	0.47	0.47	0.94	0.54	0.34	0.89
Warm Continental	0.45	0.47	0.92	0.25	0.69	0.94	0.35	0.58	0.93
Warm Continental Mountains	0.42	0.58	1.00	0.28	0.73	1.02	0.35	0.66	1.01

Table A-2. Resistance and resilience values for 56 U.S. Army installations based on predominant plant species as mapped according to Küchler, Nature Serve, and the average of the two vegetation maps.

Installation	Küchler			NatureServe			Combined		
	Resist	Resil	Resist+Resil	Resist	Resil	Resist+Resil	Resist	Resil	Resist+Resil
Camp Ashland	0.23	0.81	1.05	0.54	0.92	1.46	0.39	0.86	1.25
Camp Atterbury	0.33	1.00	1.33	0.22	1.00	1.22	0.28	1.00	1.28
Camp Blanding	0.44	0.50	0.94	0.38	0.43	0.81	0.41	0.46	0.88
Camp Bowie	0.70	0.32	1.02	0.42	0.59	1.01	0.56	0.45	1.01
Camp Bullis	0.70	0.32	1.02	0.45	0.54	0.99	0.57	0.43	1.00
Camp Clark	0.67	0.98	1.65	0.24	0.99	1.23	0.45	0.99	1.44
Camp Dawson	0.34	0.99	1.32	0.22	0.87	1.09	0.28	0.93	1.21
Camp Maxey	0.33	1.00	1.33	0.29	0.74	1.03	0.31	0.87	1.18
Camp Minden TS	0.42	0.60	1.02	0.31	0.68	1.00	0.37	0.64	1.01
Camp Perry TS (CTC)	0.33	1.00	1.33	0.92	0.73	1.66	0.63	0.87	1.50

Installation	Küchler			NatureServe			Combined		
	Resist	Resil	Resist+Resil	Resist	Resil	Resist+Resil	Resist	Resil	Resist+Resil
Camp Ripley	0.61	0.24	0.85	0.24	0.76	1.00	0.42	0.50	0.92
Camp Swift	0.33	1.00	1.33	0.28	0.73	1.01	0.31	0.86	1.17
Camp Villere TS	0.44	0.50	0.94	0.17	0.09	0.26	0.31	0.29	0.60
Caswell Training Site	0.42	0.60	1.02	0.33	0.40	0.73	0.38	0.50	0.88
Florence	0.00	0.25	0.25	0.12	0.83	0.95	0.06	0.54	0.60
Fort A P Hill	0.42	0.60	1.02	0.20	0.84	1.04	0.31	0.72	1.03
Fort Benning	0.42	0.60	1.02	0.40	0.81	1.21	0.41	0.71	1.12
Fort Bliss	0.53	0.51	1.04	0.48	0.69	1.17	0.50	0.60	1.10
Fort Bragg	0.44	0.50	0.94	0.40	0.79	1.19	0.42	0.65	1.07
Fort Campbell	0.41	1.00	1.40	0.22	1.00	1.22	0.31	1.00	1.31
Fort Carson	0.67	0.25	0.92	0.74	0.71	1.45	0.71	0.48	1.19
Fort Chaffee MTC	0.36	0.89	1.25	0.34	0.93	1.26	0.35	0.91	1.26
Fort Dix	0.38	0.79	1.18	0.27	0.82	1.09	0.33	0.80	1.13
Fort Drum	0.39	0.74	1.13	0.31	0.74	1.06	0.35	0.74	1.10
Fort Hood	0.70	0.32	1.02	0.46	0.59	1.05	0.58	0.45	1.03
Fort Huachuca	0.57	0.41	0.98	0.42	0.54	0.96	0.50	0.48	0.97
Fort Hunter-Liggett	0.36	0.24	0.60	0.26	0.45	0.71	0.31	0.34	0.65
Fort Indiantown Gap	0.33	1.00	1.33	0.26	0.83	1.09	0.30	0.92	1.21
Fort Jackson	0.42	0.60	1.02	0.40	0.80	1.20	0.41	0.70	1.11
Fort Knox	0.40	1.00	1.40	0.21	0.97	1.18	0.31	0.99	1.29
Fort Leonard Wood	0.33	1.00	1.33	0.23	0.99	1.22	0.28	0.99	1.28
Fort Lewis	0.56	0.00	0.56	0.37	0.28	0.65	0.46	0.14	0.60
Fort McCoy	0.56	0.00	0.56	0.43	0.88	1.32	0.50	0.44	0.94
Fort Pickett	0.42	0.60	1.02	0.25	0.89	1.14	0.34	0.75	1.08
Fort Polk	0.44	0.50	0.94	0.41	0.57	0.98	0.43	0.53	0.96
Fort Riley	0.94	0.94	1.88	0.84	0.93	1.77	0.89	0.94	1.83
Fort Rucker	0.44	0.52	0.96	0.28	0.76	1.04	0.36	0.64	1.00
Fort Sill	0.79	0.97	1.76	0.62	0.81	1.43	0.70	0.89	1.59
Fort Stewart	0.43	0.56	0.99	0.36	0.50	0.86	0.40	0.53	0.93
Fort Wolters	0.56	0.99	1.54	0.36	0.80	1.16	0.46	0.89	1.35
Hunter Army Airfield	0.44	0.50	0.94	0.36	0.50	0.86	0.40	0.50	0.90
ITC Camp San Luis Obispo	0.30	0.21	0.51	0.16	0.27	0.43	0.23	0.24	0.47
Marseilles MTA	0.33	1.00	1.33	0.23	0.99	1.22	0.28	1.00	1.28
Milan AAP	0.33	1.00	1.33	0.22	0.99	1.21	0.28	0.99	1.27
MTA Camp Crowder Neosho	0.33	1.00	1.33	0.22	1.00	1.22	0.28	1.00	1.28
MTA Camp Shelby	0.44	0.50	0.95	0.34	0.76	1.10	0.39	0.63	1.02
MTC-H Camp Grayling	0.55	0.04	0.59	0.22	0.54	0.76	0.38	0.29	0.68
NTC and Fort Irwin	0.00	0.10	0.10	0.16	0.53	0.69	0.08	0.32	0.39
Orchard Training Area	0.46	0.40	0.86	0.44	0.53	0.96	0.45	0.46	0.91
Parks Reserve Forces Training Area	1.00	0.70	1.70	0.76	0.56	1.32	0.88	0.63	1.51
Pinon Canyon	1.00	0.95	1.95	0.93	0.88	1.81	0.97	0.91	1.88
Ravenna Training and Logistics Site	0.33	1.00	1.33	0.25	0.88	1.13	0.29	0.94	1.23
VTS Catoosa	0.40	0.71	1.11	0.26	0.84	1.10	0.33	0.77	1.10
VTS Tullahoma	0.33	1.00	1.33	0.69	0.79	1.48	0.51	0.90	1.40
Wappapello Training Site	0.33	1.00	1.33	0.22	1.00	1.22	0.28	1.00	1.28
Yakima Training Center	0.50	0.40	0.90	0.41	0.42	0.83	0.45	0.41	0.87

Table A-3. Fifty-six U.S. Army installations ranked according to Kuchler, Nature Serve, and the average RRVAL.

Installation	Kuchler Rank	NatureServe Rank	Combined Rank
Pinon Canyon	1	1	1
Fort Riley	2	2	2
Fort Sill	3	7	3
Parks Reserve Forces Training Area	4	8	4
Camp Perry TS (CTC)	9	3	5
Camp Clark	5	11	6
VTS Tullahoma	10	4	7
Fort Wolters	6	24	8
Fort Campbell	7	12	9
Fort Knox	8	22	10
Camp Atterbury	11	13	11
MTA Camp Crowder Neosho	12	14	12
Wappapello Training Site	13	15	13
Marseilles MTA	14	16	14
Fort Leonard Wood	15	17	15
Milan AAP	16	18	16
Fort Chaffee MTC	22	10	17
Camp Ashland	26	5	18
Ravenna Training and Logistics Site	17	26	19
Fort Indiantown Gap	18	29	20
Camp Dawson	21	30	21
Fort Carson	46	6	22
Camp Maxey	19	36	23
Camp Swift	20	37	24
Fort Dix	23	31	25
Fort Benning	28	19	26
Fort Jackson	29	20	27
Fort Bliss	27	23	28
VTS Catoosa	25	27	29
Fort Drum	24	32	30
Fort Pickett	30	25	31
Fort Bragg	41	21	32
Fort Hood	31	33	33
Fort A P Hill	32	34	34
MTA Camp Shelby	40	28	35
Camp Bowie	33	38	36
Camp Minden TS	34	39	37
Fort Rucker	39	35	38
Camp Bullis	35	41	39
Fort Huachuca	38	43	40

Fort Polk	42	42	41
Fort McCoy	52	9	42
Fort Stewart	37	46	43
Camp Ripley	49	40	44
Orchard Training Area	48	44	45
Hunter Army Airfield	43	47	46
Camp Blanding	44	49	47
Caswell Training Site	36	51	48
Yakima Training Center	47	48	49
MTC-H Camp Grayling	51	50	50
Fort Hunter-Liggett	50	52	51
Florence	55	45	52
Fort Lewis	53	54	53
Camp Villere TS	45	56	54
ITC Camp San Luis Obispo	54	55	55
NTC and Fort Irwin	56	53	56

Appendix B: Dominant Species' Resistance and Resilience Values From USGS National Vegetation Classification Community Types

Table B-1. Dominant species' resistance and resilience values from USGS national vegetation classification community types.

Community	Species	Classification	Resistance	Resilience
North Pacific Dry-Mesic Silver Fir-Western Hemlock-Douglas-fir Forest	<i>Abies amabilis</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic Subalpine Parkland	<i>Abies amabilis</i>	Tree- Evergreen	3.2	2.2
North Pacific Mesic Western Hemlock-Silver Fir Forest	<i>Abies amabilis</i>	Tree- Evergreen	3.2	2.2
North Pacific Mountain Hemlock Forest	<i>Abies amabilis</i>	Tree- Evergreen	3.2	2.2
Acadian Low-Elevation Spruce-Fir-Hardwood Forest	<i>Abies balsamea</i>	Tree- Evergreen	3.2	2.2
Acadian-Appalachian Montane Spruce-Fir Forest	<i>Abies balsamea</i>	Tree- Evergreen	3.2	2.2
High Allegheny Wetland	<i>Abies balsamea</i>	Tree- Evergreen	3.2	2.2
Boreal White Spruce-Fir-Hardwood Forest	<i>Abies balsamea</i>	Tree- Evergreen	3.2	2.2
Eastern Hemi-Boreal Mesic Balsam Fir-Spruce Forest	<i>Abies balsamea</i>	Tree- Evergreen	3.2	2.2
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
North Pacific Montane Riparian Woodland and Shrubland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Bigtooth Maple Ravine Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Sierran-Intermontane Desert Western White Pine-White Fir Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Mixed Conifer Forest and Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Sierran-Intermontane Desert Western White Pine-White Fir Woodland	<i>Abies concolor</i>	Tree- Evergreen	3.2	2.2
Central and Southern Appalachian Spruce-Fir Forest	<i>Abies fraseri</i>	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Mesic Montane Mixed Conifer Forest	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Wooded Vernal Pool	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	<i>Abies grandis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic Subalpine Parkland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
North Pacific Wooded Volcanic Flowage	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Avalanche Chute Shrubland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Subalpine Woodland and Parkland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Wooded Vernal Pool	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine-Montane Riparian Woodland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Abies lasiocarpa</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Abies magnifica</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	<i>Abies magnifica</i>	Tree- Evergreen	3.2	2.2
North Pacific Montane Riparian Woodland and Shrubland	<i>Abies magnifica</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	<i>Abies procera</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	<i>Abies x shastensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Mountain Hemlock Forest	<i>Abies x shastensis</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Southern Coastal Dune	<i>Abronia maritima</i>	Forb	3	3.5
Mediterranean California Southern Coastal Dune	<i>Abronia umbellata</i>	Forb	3	3.5
Tamaulipan Calcareous Thornscrub	<i>Acacia berlandieri</i>	Shrub- Deciduous	2.7	3
Tamaulipan Mixed Deciduous Thornscrub	<i>Acacia berlandieri</i>	Shrub- Deciduous	2.7	3
Chihuahuan Mixed Desert and Thornscrub	<i>Acacia constricta</i>	Shrub- Deciduous	2.7	3
Apacherian-Chihuahuan Mesquite Upland Scrub	<i>Acacia constricta</i>	Tree- Deciduous	3	4.2
Tamaulipan Mesquite Upland Scrub	<i>Acacia constricta</i>	Tree- Deciduous	3	4.2
Tamaulipan Calcareous Thornscrub	<i>Acacia farnesiana</i>	Shrub- Deciduous	2.7	3
Tamaulipan Mixed Deciduous Thornscrub	<i>Acacia farnesiana</i>	Shrub- Deciduous	2.7	3
Tamaulipan Ramadero	<i>Acacia farnesiana</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Floodplain	<i>Acacia farnesiana</i>	Tree- Evergreen	3.2	2.2
Tamaulipan Palm Grove Riparian Forest	<i>Acacia farnesiana</i>	Tree- Evergreen	3.2	2.2
North American Warm Desert Riparian Mesquite Bosque	<i>Acacia greggii</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	<i>Acacia greggii</i>	Shrub- Deciduous	2.7	3
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Acacia greggii</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
Apacherian-Chihuahuan Mesquite Upland Scrub	Acacia neovernicosa	Shrub- Deciduous	2.7	3
Chihuahuan Mixed Desert and Thornscrub	Acacia neovernicosa	Shrub- Deciduous	2.7	3
Tamaulipan Mesquite Upland Scrub	Acacia neovernicosa	Shrub- Deciduous	2.7	3
Tamaulipan Mixed Deciduous Thornscrub	Acacia rigidula	Shrub- Deciduous	2.7	3
Tamaulipan Calcareous Thornscrub	Acacia rigidula	Tree- Deciduous	3	4.2
Tamaulipan Mixed Deciduous Thornscrub	Acacia roemeriana	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Small Stream and River Floodplain Forest	Acer barbatum	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	Acer barbatum	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	Acer barbatum	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	Acer barbatum	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Mesic Hardwood Forest	Acer barbatum	Tree- Deciduous	3	4.2
North Pacific Avalanche Chute Shrubland	Acer circinatum	Shrub- Deciduous	2.7	3
North Pacific Lowland Mixed Hardwood-Conifer Forest	Acer circinatum	Shrub- Deciduous	2.7	3
North Pacific Montane Riparian Woodland and Shrubland	Acer circinatum	Shrub- Deciduous	2.7	3
North Pacific Montane Shrubland	Acer circinatum	Shrub- Deciduous	2.7	3
North Pacific Wooded Volcanic Flowage	Acer circinatum	Shrub- Deciduous	2.7	3
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	Acer circinatum	Shrub- Evergreen	2.7	2.4
North Pacific Montane Shrubland	Acer glabrum	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	Acer glabrum	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Avalanche Chute Shrubland	Acer glabrum	Tree- Deciduous	3	4.2
Rocky Mountain Bigtooth Maple Ravine Woodland	Acer glabrum	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	Acer glabrum	Tree- Deciduous	3	4.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	Acer grandidentatum	Tree- Deciduous	3	4.2
Rocky Mountain Bigtooth Maple Ravine Woodland	Acer grandidentatum	Tree- Deciduous	3	4.2
Central and Southern California Mixed Evergreen Woodland	Acer macrophyllum	Tree- Deciduous	3	4.2
Mediterranean California Mesic Mixed Conifer Forest and Woodland	Acer macrophyllum	Tree- Deciduous	3	4.2
North Pacific Broadleaf Landslide Forest and Shrubland	Acer macrophyllum	Tree- Deciduous	3	4.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	Acer macrophyllum	Tree- Deciduous	3	4.2
North Pacific Lowland Riparian Forest and Shrubland	Acer macrophyllum	Tree- Deciduous	3	4.2
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	Acer macrophyllum	Tree- Deciduous	3	4.2
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	Acer macrophyllum	Tree- Deciduous	3	4.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	Acer macrophyllum	Tree- Deciduous	3	4.2
North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	Acer macrophyllum	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	Acer negundo	Tree- Deciduous	3	4.2
Central Appalachian Stream and Riparian	Acer negundo	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Edwards Plateau Floodplain Terrace	Acer negundo	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Woodland and Shrubland	Acer negundo	Tree- Deciduous	3	4.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	Acer negundo	Tree- Deciduous	3	4.2
Rocky Mountain Bigtooth Maple Ravine Woodland	Acer negundo	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	Acer negundo	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	Acer negundo	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	Acer negundo	Tree- Deciduous	3	4.2
Southern Piedmont Small Floodplain and Riparian Forest	Acer negundo	Tree- Deciduous	3	4.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	Acer negundo	Tree- Deciduous	3	4.2
Southern Appalachian Northern Hardwood Forest	Acer pensylvanicum	Tree- Deciduous	3	4.2
Allegheny-Cumberland Dry Oak Forest and Woodland	Acer rubrum	Tree- Deciduous	3	4.2
Central Atlantic Coastal Plain Maritime Forest	Acer rubrum	Tree- Deciduous	3	4.2
Great Lakes Wooded Dune and Swale	Acer rubrum	Tree- Deciduous	3	4.2
Laurentian-Acadian Alkaline Conifer-Hardwood Swamp	Acer rubrum	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	Acer rubrum	Tree- Deciduous	3	4.2
North-Central Interior and Appalachian Rich Swamp	Acer rubrum	Tree- Deciduous	3	4.2
North-Central Interior Wet Flatwoods	Acer rubrum	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Basin Swamp and Wet Hardwood Forest	Acer rubrum	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Maritime Forest	Acer rubrum	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Tidal Swamp	Acer rubrum	Tree- Deciduous	3	4.2
Piedmont Upland Depression Swamp	Acer rubrum	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Tidal Wooded Swamp	Acer rubrum	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	Acer rubrum	Tree- Deciduous	3	4.2
Southern Piedmont Small Floodplain and Riparian Forest	Acer rubrum	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	Acer rubrum	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Pine-(Oak) Forest	Acer rubrum	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	Acer rubrum	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	Acer rubrum	Tree- Deciduous	3	4.2
Mississippi River Bottomland Depression	Acer rubrum	Tree- Deciduous	3	4.2
South-Central Interior Small Stream and Riparian	Acer rubrum	Tree- Deciduous	3	4.2
Central Appalachian River Floodplain	Acer saccharinum	Tree- Deciduous	3	4.2
Laurentian-Acadian Floodplain Forest	Acer saccharinum	Tree- Deciduous	3	4.2
North-Central Interior Floodplain	Acer saccharinum	Tree- Deciduous	3	4.2
South-Central Interior Large Floodplain	Acer saccharinum	Tree- Deciduous	3	4.2
Central Interior Highlands Calcareous Glade and Barrens	Acer saccharum	Tree- Deciduous	3	4.2
Crowley's Ridge Mesic Loess Slope Forest	Acer saccharum	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	Acer saccharum	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
North-Central Interior Beech-Maple Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
North-Central Interior Maple-Basswood Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
South-Central Interior Mesophytic Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
Southern Appalachian Northern Hardwood Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	<i>Acer saccharum</i>	Tree- Deciduous	3	4.2
Central Appalachian Alkaline Glade and Woodland	<i>Acer saccharum</i> var. <i>saccharum</i>	Tree- Deciduous	3	4.2
Mediterranean California Subalpine Meadow	<i>Achillea millefolium</i>	Forb	3	3.5
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Achlys triphylla</i>	Forb	3	3.5
Chihuahuan Sandy Plains Semi-Desert Grassland	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Big Sagebrush Steppe	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Juniper Savanna	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Grassland	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Achnatherum hymenoides</i>	Graminoid C ₃	3.6	3.6
Klamath-Siskiyou Cliff and Outcrop	<i>Achnatherum lemmonii</i>	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	<i>Achnatherum lemmonii</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Achnatherum lettermanii</i>	Graminoid C ₃	3.6	3.6
Klamath-Siskiyou Cliff and Outcrop	<i>Achnatherum occidentale</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Achnatherum occidentale</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Achnatherum richardsonii</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Achnatherum richardsonii</i>	Graminoid C ₃	3.6	3.6
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Achnatherum thurberianum</i>	Graminoid C ₃	3.6	3.6
California Maritime Chaparral	<i>Adenostoma fasciculatum</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Dry Chalk Bluff	<i>Adiantum capillus-veneris</i>	Graminoid C ₃	3.6	3.6
Edwards Plateau Cliff	<i>Adiantum capillus-veneris</i>	Graminoid C ₃	3.6	3.6
Edwards Plateau Mesic Canyon	<i>Adiantum capillus-veneris</i>	Graminoid C ₃	3.6	3.6
Southern and Central Appalachian Cove Forest	<i>Aesculus flava</i>	Tree- Deciduous	3	4.2
Southern Appalachian Northern Hardwood Forest	<i>Aesculus flava</i>	Tree- Deciduous	3	4.2
Chihuahuan Succulent Desert Scrub	<i>Agave lechuguilla</i>	Forb	3	3.5
Chihuahuan Creosotebush Desert Scrub	<i>Agave parryi</i>	Forb	3	3.5
Inter-Mountain Basins Playa	<i>Allenrolfea occidentalis</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Playa	<i>Allenrolfea occidentalis</i>	Shrub- Deciduous	2.7	3
North Pacific Herbaceous Bald and Bluff	<i>Allium cernuum</i>	Forb	3	3.5
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
Great Lakes Wooded Dune and Swale	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
Laurentian-Acadian Wet Meadow-Shrub Swamp	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
Northern Rocky Mountain Wooded Vernal Pool	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Woodland	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Alnus incana</i>	Tree- Deciduous	3	4.2
North Pacific Montane Riparian Woodland and Shrubland	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
North Pacific Shrub Swamp	<i>Alnus incana</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Alnus oblongifolia</i>	Shrub- Deciduous	2.7	3
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Alnus rhombifolia</i>	Tree- Deciduous	3	4.2
North Pacific Broadleaf Landslide Forest and Shrubland	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
North Pacific Hardwood-Conifer Swamp	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
North Pacific Intertidal Freshwater Wetland	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
North Pacific Lowland Riparian Forest and Shrubland	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Riparian Woodland and Shrubland	<i>Alnus rubra</i>	Shrub- Deciduous	2.7	3
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Alnus rubra</i>	Tree- Deciduous	3	4.2
Cumberland Riverscour	<i>Alnus serrulata</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Small Stream and River Floodplain Forest	<i>Alnus serrulata</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Tidal Swamp	<i>Alnus serrulata</i>	Shrub- Deciduous	2.7	3
South-Central Interior Small Stream and Riparian	<i>Alnus serrulata</i>	Shrub- Deciduous	2.7	3
Southern and Central Appalachian Bog and Fen	<i>Alnus serrulata</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Alnus serrulata</i>	Shrub- Deciduous	2.7	3
North Pacific Active Volcanic Rock and Cinder Land	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Riparian Woodland and Shrubland	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
North Pacific Shrub Swamp	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
Southern Appalachian Grass and Shrub Bald	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
North Pacific Avalanche Chute Shrubland	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Riparian Woodland and Shrubland	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
North Pacific Shrub Swamp	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Avalanche Chute Shrubland	<i>Alnus viridis</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Amaranthus cannabinus</i>	Forb	3	3.5
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Ambrosia deltoidea</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
North American Warm Desert Active and Stabilized Dune	<i>Ambrosia dumosa</i>	Shrub- Deciduous	2.7	3
Sonora-Mojave Creosotebush-White Bursage Desert Scrub	<i>Ambrosia dumosa</i>	Shrub- Deciduous	2.7	3
Sonoran Mid-Elevation Desert Scrub	<i>Ambrosia dumosa</i>	Shrub- Deciduous	2.7	3
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Ambrosia dumosa</i>	Shrub- Deciduous	2.7	3
Central Mixedgrass Prairie	<i>Ambrosia psilostachya</i>	Forb	3	3.5
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Amelanchier alnifolia</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Amelanchier alnifolia</i>	Shrub- Deciduous	2.7	3
Northwestern Great Plains Aspen Forest and Parkland	<i>Amelanchier alnifolia</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Bigtooth Maple Ravine Woodland	<i>Amelanchier alnifolia</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Amelanchier alnifolia</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Pinyon-Juniper Woodland	<i>Amelanchier utahensis</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Amelanchier utahensis</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Amelanchier utahensis</i>	Shrub- Deciduous	2.7	3
Great Lakes Dune	<i>Ammophila breviligulata</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wooded Dune and Swale	<i>Ammophila breviligulata</i>	Graminoid C ₃	3.6	3.6
Northern Atlantic Coastal Plain Dune and Swale	<i>Ammophila breviligulata</i>	Graminoid C ₃	3.6	3.6
Great Lakes Dune	<i>Ammophila champlainensis</i>	Graminoid C ₃	3.6	3.6
Southeastern Great Plains Riparian Forest	<i>Amorpha fruticosa</i>	Shrub- Deciduous	2.7	3
Tamaulipan Calcareous Thornscrub	<i>Amyris madrensis</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Mixed Deciduous Thornscrub	<i>Amyris madrensis</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Calcareous Thornscrub	<i>Amyris texana</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Mixed Deciduous Thornscrub	<i>Amyris texana</i>	Shrub- Evergreen	2.7	2.4
Central Florida Herbaceous Pondshore	<i>Andropogon brachystachyus</i>	Graminoid C ₄	3.6	4.1
Arkansas Valley Prairie and Woodland	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Central Appalachian Alkaline Glade and Woodland	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Cumberland Riverscour	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Eastern Great Plains Tallgrass Aspen Parkland	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Eastern Highland Rim Prairie and Barrens	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Eastern Serpentine Woodland	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
North-Central Interior Oak Savanna	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
North-Central Interior Sand and Gravel Tallgrass Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
North-Central Oak Barrens	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Northern Tallgrass Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Paleozoic Plateau Bluff and Talus	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Southeastern Great Plains Tallgrass Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Southern Coastal Plain Blackland Prairie and Woodland	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Texas Blackland Tallgrass Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Western Great Plains Foothill and Piedmont Grassland	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Tallgrass Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Central Tallgrass Prairie	<i>Andropogon gerardii</i>	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie	<i>Andropogon glomeratus</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Northern Calcareous Prairie	<i>Andropogon glomeratus</i>	Graminoid C ₄	3.6	4.1
Southern Piedmont Glade and Barrens	<i>Andropogon gyrans</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Sand Prairie	<i>Andropogon hallii</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	<i>Andropogon ternarius</i>	Graminoid C ₄	3.6	4.1
Florida Dry Prairie	<i>Andropogon ternarius</i>	Graminoid C ₄	3.6	4.1
Southeastern Coastal Plain Cliff	<i>Andropogon virginicus</i>	Graminoid C ₄	3.6	4.1
South Florida Cypress Dome	<i>Annona glabra</i>	Shrub- Evergreen	2.7	2.4
North Pacific Active Volcanic Rock and Cinder Land	<i>Antennaria lanata</i>	Forb	3	3.5
Rocky Mountain Alpine Bedrock and Scree	<i>Aquilegia caerulea</i>	Forb	3	3.5
Rocky Mountain Alpine Bedrock and Scree	<i>Aquilegia flavescens</i>	Forb	3	3.5
Central and Southern California Mixed Evergreen Woodland	<i>Arbutus menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	<i>Arbutus menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Herbaceous Bald and Bluff	<i>Arctostaphylos columbiana</i>	Shrub- Evergreen	2.7	2.4
California Montane Woodland and Chaparral	<i>Arctostaphylos glandulosa</i>	Shrub- Evergreen	2.7	2.4
Northern and Central California Dry-Mesic Chaparral	<i>Arctostaphylos glandulosa</i>	Shrub- Evergreen	2.7	2.4
California Xeric Serpentine Chaparral	<i>Arctostaphylos glauca</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Mesic Serpentine Woodland and Chaparral	<i>Arctostaphylos glauca</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Semi-Desert Chaparral	<i>Arctostaphylos glauca</i>	Shrub- Evergreen	2.7	2.4
Southern California Coast Ranges Cliff and Canyon	<i>Arctostaphylos glauca</i>	Shrub- Evergreen	2.7	2.4
California Montane Woodland and Chaparral	<i>Arctostaphylos nevadensis</i>	Shrub- Evergreen	2.7	2.4
Great Basin Semi-Desert Chaparral	<i>Arctostaphylos nevadensis</i>	Shrub- Evergreen	2.7	2.4
North Pacific Montane Shrubland	<i>Arctostaphylos nevadensis</i>	Shrub- Evergreen	2.7	2.4
North Pacific Serpentine Barren	<i>Arctostaphylos nevadensis</i>	Shrub- Evergreen	2.7	2.4
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	<i>Arctostaphylos nevadensis</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Pinyon-Juniper Woodland	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Great Basin Pinyon-Juniper Woodland	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Great Basin Semi-Desert Chaparral	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Semi-Desert Chaparral	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Arctostaphylos patula</i>	Shrub- Evergreen	2.7	2.4
Mogollon Chaparral	<i>Arctostaphylos pringlei</i>	Shrub- Evergreen	2.7	2.4
California Xeric Serpentine Chaparral	<i>Arctostaphylos pungens</i>	Shrub- Evergreen	2.7	2.4
Mogollon Chaparral	<i>Arctostaphylos pungens</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Semi-Desert Chaparral	<i>Arctostaphylos pungens</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Great Lakes Dune	<i>Arctostaphylos uva-ursi</i>	Shrub	2.7	2.8
Northern Atlantic Coastal Plain Heathland and Grassland	<i>Arctostaphylos uva-ursi</i>	Shrub	2.7	2.8
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Arctostaphylos uva-ursi</i>	Shrub	2.7	2.8
Northern Rocky Mountain Western Larch Savanna	<i>Arctostaphylos uva-ursi</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Arctostaphylos uva-ursi</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Lodgepole Pine Forest	<i>Arctostaphylos uva-ursi</i>	Shrub- Evergreen	2.7	2.4
California Xeric Serpentine Chaparral	<i>Arctostaphylos viscida</i>	Shrub- Evergreen	2.7	2.4
Northern and Central California Dry-Mesic Chaparral	<i>Arctostaphylos viscida</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Arctostaphylos viscida</i>	Shrub- Evergreen	2.7	2.4
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Argentina egedii</i>	Forb	3	3.5
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland	<i>Aristida beyrichiana</i>	Graminoid C ₄	3.6	4.1
Central Florida Pine Flatwoods	<i>Aristida beyrichiana</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	<i>Aristida beyrichiana</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Savanna and Wet Prairie	<i>Aristida beyrichiana</i>	Graminoid C ₄	3.6	4.1
Florida Dry Prairie	<i>Aristida beyrichiana</i>	Graminoid C ₄	3.6	4.1
South Florida Pine Flatwoods	<i>Aristida beyrichiana</i>	Graminoid C ₄	3.6	4.1
South-Central Saline Glade	<i>Aristida dichotoma</i>	Graminoid C ₄	3.6	4.1
South-Central Saline Glade	<i>Aristida longespica</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Catahoula Barrens	<i>Aristida longespica</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Depression Pond	<i>Aristida palustris</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Flatwoods Pond	<i>Aristida palustris</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Nepheline Syenite Glade	<i>Aristida purpurascens</i>	Graminoid C ₄	3.6	4.1
Eastern Highland Rim Prairie and Barrens	<i>Aristida purpurascens</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Grassland	<i>Aristida purpurea</i>	Graminoid C ₄	3.6	4.1
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Aristida purpurea</i>	Graminoid C ₄	3.6	4.1
Florida Dry Prairie	<i>Aristida spiciformis</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland	<i>Aristida stricta</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Upland Longleaf Pine Woodland	<i>Aristida stricta</i>	Graminoid C ₄	3.6	4.1
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Aristida stricta</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	<i>Aristida stricta</i>	Graminoid C ₄	3.6	4.1
Southern Coastal Plain Oak Dome and Hammock	<i>Aristida stricta</i>	Graminoid C ₄	3.6	4.1
Columbia Plateau Low Sagebrush Steppe	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Great Basin Pinyon-Juniper Woodland	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Sierra Nevada Alpine Dwarf-Shrubland	<i>Artemisia arbuscula</i>	Tree- Deciduous	3	4.2
Columbia Plateau Low Sagebrush Steppe	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Low Sagebrush Steppe	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Shale Badland	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Artemisia arbuscula</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Alpine Turf	<i>Artemisia arctica</i>	Shrub	2.7	2.8
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Artemisia bigelovii</i>	Shrub- Evergreen	2.7	2.4
Northern California Coastal Scrub	<i>Artemisia californica</i>	Shrub- Deciduous	2.7	3
Southern California Coastal Scrub	<i>Artemisia californica</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Steppe	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Greasewood Flat	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Northwestern Great Plains Riparian	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Western Great Plains Riparian	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Artemisia cana</i>	Shrub- Evergreen	2.7	2.4
Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	<i>Artemisia filifolia</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Artemisia filifolia</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Active and Stabilized Dune	<i>Artemisia filifolia</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Active and Stabilized Dune	<i>Artemisia filifolia</i>	Shrub- Deciduous	2.7	3
Southern Colorado Plateau Sand Shrubland	<i>Artemisia filifolia</i>	Shrub- Deciduous	2.7	3
Western Great Plains Sandhill Steppe	<i>Artemisia filifolia</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Artemisia frigida</i>	Shrub	2.7	2.8
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Artemisia frigida</i>	Shrub	2.7	2.8
Southern Rocky Mountain Pinyon-Juniper Woodland	<i>Artemisia frigida</i>	Shrub	2.7	2.8
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Artemisia longifolia</i>	Shrub	2.7	2.8
Western Great Plains Cliff and Outcrop	<i>Artemisia longifolia</i>	Shrub	2.7	2.8
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Artemisia nova</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Pinyon-Juniper Woodland	<i>Artemisia nova</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Low Sagebrush Steppe	<i>Artemisia nova</i>	Shrub- Evergreen	2.7	2.4
Great Basin Pinyon-Juniper Woodland	<i>Artemisia nova</i>	Shrub- Evergreen	2.7	2.4
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Artemisia nova</i>	Shrub- Evergreen	2.7	2.4
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Artemisia nova</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Artemisia pedatifida</i>	Shrub	2.7	2.8
Inter-Mountain Basins Shale Badland	<i>Artemisia pedatifida</i>	Shrub	2.7	2.8

Community	Species	Classification	Resistance	Resilience
Inter-Mountain Basins Shale Badland	<i>Artemisia pygmaea</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Scabland Shrubland	<i>Artemisia rigida</i>	Shrub	2.7	2.8
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Pinyon-Juniper Woodland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Ash and Tuff Badland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Western Juniper Woodland and Savanna	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Cliff and Canyon	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Western Great Plains Badlands	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Active and Stabilized Dune	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Greasewood Flat	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Semi-Desert Grassland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Wash	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Juniper Savanna	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Volcanic Rock and Cinder Land	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Pinyon-Juniper Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Greasewood Flat	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Juniper Savanna	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Inter-Mountain Basins Semi-Desert Grassland	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Steppe	<i>Artemisia tridentata</i>	Shrub- Evergreen	2.7	2.4
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Artemisia tripartita</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Steppe	<i>Artemisia tripartita</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Arundinaria gigantea</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Arundinaria gigantea</i>	Graminoid C ₃	3.6	3.6
Southeastern Great Plains Floodplain Forest	<i>Arundo donax</i>	Graminoid C ₃	3.6	3.6
Tamaulipan Floodplain	<i>Arundo donax</i>	Graminoid C ₃	3.6	3.6
Southern Interior Calcareous Cliff	<i>Asplenium ruta-muraria</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Alpine Bedrock and Scree	<i>Astragalus austini</i>	Forb	3	3.5
Mediterranean California Alpine Bedrock and Scree	<i>Astragalus bolanderi</i>	Forb	3	3.5
Mediterranean California Alpine Bedrock and Scree	<i>Astragalus kentrophyta</i>	Forb	3	3.5
North Pacific Intertidal Freshwater Wetland	<i>Athyrium filix-femina</i>	Graminoid C ₃	3.6	3.6
Chihuahuan Gypsophilous Grassland and Steppe	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Chihuahuan Mixed Salt Desert Scrub	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Active and Stabilized Dune	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Greasewood Flat	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Wash	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Mojave Mid-Elevation Mixed Desert Scrub	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Active and Stabilized Dune	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Mixed Salt Desert Scrub	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Western Great Plains Mesquite Woodland and Shrubland	<i>Atriplex canescens</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Greasewood Flat	<i>Atriplex confertifolia</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Atriplex confertifolia</i>	Shrub- Deciduous	2.7	3
Mojave Mid-Elevation Mixed Desert Scrub	<i>Atriplex confertifolia</i>	Shrub- Deciduous	2.7	3
Sonora-Mojave Mixed Salt Desert Scrub	<i>Atriplex confertifolia</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Atriplex corrugata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Shale Badland	<i>Atriplex corrugata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Shale Badland	<i>Atriplex cuneata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Greasewood Flat	<i>Atriplex gardneri</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Atriplex gardneri</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Shale Badland	<i>Atriplex gardneri</i>	Shrub- Deciduous	2.7	3
Western Great Plains Badlands	<i>Atriplex gardneri</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Badland	<i>Atriplex hymenelytra</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Volcanic Rockland	<i>Atriplex hymenelytra</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Southern Coastal Dune	<i>Atriplex leucophylla</i>	Forb	3	3.5
Chihuahuan Mixed Salt Desert Scrub	<i>Atriplex obovata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Atriplex obovata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Shale Badland	<i>Atriplex obovata</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
Chihuahuan Mixed Salt Desert Scrub	<i>Atriplex polycarpa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Atriplex polycarpa</i>	Shrub- Deciduous	2.7	3
Mojave Mid-Elevation Mixed Desert Scrub	<i>Atriplex polycarpa</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Playa	<i>Atriplex polycarpa</i>	Shrub- Deciduous	2.7	3
Sonora-Mojave Mixed Salt Desert Scrub	<i>Atriplex polycarpa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Atriplex spinifera</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Playa	<i>Atriplex spinifera</i>	Shrub- Deciduous	2.7	3
South Florida Mangrove Swamp	<i>Avicennia germinans</i>	Shrub- Evergreen	2.7	2.4
South-Central Saline Glade	<i>Baccharis halimifolia</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Salt and Brackish Tidal Marsh	<i>Baccharis halimifolia</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Coastal Bluff	<i>Baccharis pilularis</i>	Shrub- Evergreen	2.7	2.4
Southern California Coastal Scrub	<i>Baccharis pilularis</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Baccharis salicifolia</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Riparian Mesquite Bosque	<i>Baccharis salicifolia</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Wash	<i>Baccharis sarothroides</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Wash	<i>Baccharis sergiioides</i>	Shrub- Deciduous	2.7	3
South Florida Slough, Gator Hole and Willow Head	<i>Bacopa caroliniana</i>	Forb	3	3.5
Rocky Mountain Subalpine-Montane Mesic Meadow	<i>Balsamorhiza sagittata</i>	Forb	3	3.5
South Texas Salt and Brackish Tidal Flat	<i>Batis maritima</i>	Shrub	2.7	2.8
Texas Coast Salt and Brackish Tidal Marsh	<i>Batis maritima</i>	Shrub	2.7	2.8
Florida Dry Prairie	<i>Befaria racemosa</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Cienega	<i>Berula erecta</i>	Forb	3	3.5
Acadian-Appalachian Montane Spruce-Fir Forest	<i>Betula alleghaniensis</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	<i>Betula alleghaniensis</i>	Tree- Deciduous	3	4.2
Southern Appalachian Northern Hardwood Forest	<i>Betula alleghaniensis</i>	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	<i>Betula alleghaniensis</i>	Tree- Deciduous	3	4.2
Mediterranean California Subalpine-Montane Fen	<i>Betula glandulosa</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Fen	<i>Betula glandulosa</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Betula glandulosa</i>	Shrub- Deciduous	2.7	3
North-Central Appalachian Acidic Cliff and Talus	<i>Betula lenta</i>	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Betula lenta</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Betula lenta</i>	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	<i>Betula lenta</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Betula nigra</i>	Tree- Deciduous	3	4.2
Central Appalachian Stream and Riparian	<i>Betula nigra</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Riparian	<i>Betula nigra</i>	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	<i>Betula nigra</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Small Stream and River Forest	<i>Betula nigra</i>	Tree- Deciduous	3	4.2
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Betula occidentalis</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Betula occidentalis</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Betula occidentalis</i>	Tree- Deciduous	3	4.2
North Pacific Hardwood-Conifer Swamp	<i>Betula papyrifera</i>	Shrub- Deciduous	2.7	3
Acadian Low-Elevation Spruce-Fir-Hardwood Forest	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Northern Rocky Mountain Wooded Vernal Pool	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Eastern Hemi-Boreal Aspen-Birch Forest	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Pine-(Oak) Forest	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Acadian-Appalachian Montane Spruce-Fir Forest	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	<i>Betula papyrifera</i>	Tree- Deciduous	3	4.2
Northeastern Interior Pine Barrens	<i>Betula populifolia</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Catahoula Barrens	<i>Bigelovia nuttallii</i>	Forb	3	3.5
Laurentian-Acadian Floodplain Forest	<i>Boehmeria cylindrica</i>	Forb	3	3.5
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Boerhavia gracillima</i>	Forb	3	3.5
South Texas Salt and Brackish Tidal Flat	<i>Borrichia frutescens</i>	Shrub	2.7	2.8
Southern Atlantic Coastal Plain Salt and Brackish Tidal Marsh	<i>Borrichia frutescens</i>	Shrub	2.7	2.8
Texas Coast Salt and Brackish Tidal Marsh	<i>Borrichia frutescens</i>	Shrub	2.7	2.8
Atlantic Coastal Plain Indian River Lagoon Tidal Marsh	<i>Borrichia frutescens</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Savanna Grassland	<i>Bothriochloa barbinodis</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Floodplain Terrace	<i>Bothriochloa ischaemum</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Limestone Savanna and Woodland	<i>Bothriochloa ischaemum</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Riparian	<i>Bothriochloa ischaemum</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Calcareous Thornscrub	<i>Bothriochloa ischaemum</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Floodplain	<i>Bothriochloa ischaemum</i>	Graminoid C ₄	3.6	4.1
Llano Uplift Acidic Forest, Woodland and Glade	<i>Bothriochloa laguroides</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Central Mixedgrass Prairie	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Juniper Savanna	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Grassland	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Madrean Encinal	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Madrean Juniper Savanna	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Madrean Oriental Chaparral	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Paleozoic Plateau Bluff and Talus	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Southwestern Great Plains Canyon	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Cliff and Outcrop	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Central Tallgrass Prairie	<i>Bouteloua curtipendula</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Gypsophilous Grassland and Steppe	<i>Bouteloua eriopoda</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Loamy Plains Desert Grassland	<i>Bouteloua eriopoda</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Sandy Plains Semi-Desert Grassland	<i>Bouteloua eriopoda</i>	Graminoid C ₄	3.6	4.1

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Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	<i>Bouteloua eriopoda</i>	Graminoid C ₄	3.6	4.1
Madrean Juniper Savanna	<i>Bouteloua eriopoda</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Bouteloua eriopoda</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Central Mixedgrass Prairie	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Loamy Plains Desert Grassland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Sandy Plains Semi-Desert Grassland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Colorado Plateau Pinyon-Juniper Woodland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Juniper Savanna	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Grassland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Madrean Encinal	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Madrean Juniper Savanna	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
North-Central Interior Sand and Gravel Tallgrass Prairie	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Northwestern Great Plains Mixedgrass Prairie	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Southern Colorado Plateau Sand Shrubland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Pinyon-Juniper Woodland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Ponderosa Pine Savanna	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Cliff and Outcrop	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Foothill and Piedmont Grassland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Mesquite Woodland and Shrubland	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Sandhill Steppe	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Shortgrass Prairie	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Bouteloua gracilis</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Sandy Plains Semi-Desert Grassland	<i>Bouteloua hirsuta</i>	Graminoid C ₄	3.6	4.1
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Bouteloua hirsuta</i>	Graminoid C ₄	3.6	4.1

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Madrean Juniper Savanna	<i>Bouteloua hirsuta</i>	Graminoid C ₄	3.6	4.1
Madrean Oriental Chaparral	<i>Bouteloua hirsuta</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Bouteloua hirsuta</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Bouteloua ramosa</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Bouteloua rothrockii</i>	Graminoid C ₄	3.6	4.1
Madrean Encinal	<i>Bouteloua rothrockii</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Riparian	<i>Brickellia laciniata</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	<i>Brickellia laciniata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Bromus carinatus</i>	Graminoid C ₃	3.6	3.6
Tamaulipan Floodplain	<i>Bromus catharticus</i>	Graminoid C ₃	3.6	3.6
California Central Valley Mixed Oak Savanna	<i>Bromus diandrus</i>	Graminoid C ₃	3.6	3.6
California Central Valley Mixed Oak Savanna	<i>Bromus hordeaceus</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Floodplain	<i>Bromus inermis</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Bromus inermis</i>	Graminoid C ₃	3.6	3.6
Sonora-Mojave Mixed Salt Desert Scrub	<i>Bromus rubens</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Foothill and Canyon Dry Grassland	<i>Bromus tectorum</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Palouse Prairie	<i>Bromus tectorum</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Scabland Shrubland	<i>Bromus tectorum</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Steppe and Grassland	<i>Bromus tectorum</i>	Graminoid C ₃	3.6	3.6
Edwards Plateau Upland Depression	<i>Buchloë dactyloides</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Closed Depression Wetland	<i>Buchloë dactyloides</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Shortgrass Prairie	<i>Buchloë dactyloides</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Depressional Wetland Systems	<i>Buchloë dactyloides</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Cliff	<i>Buddleja racemosa</i>	Shrub- Evergreen	2.7	2.4
South Florida Hardwood Hammock	<i>Bursera simaruba</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Sandy Beach	<i>Cakile edentula</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Florida Beach	<i>Cakile edentula</i>	Forb	3	3.5
Texas Coast Beach	<i>Cakile geniculata</i>	Forb	3	3.5
Eastern Boreal Floodplain	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
Eastern Great Plains Tallgrass Aspen Parkland	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
Laurentian-Acadian Wet Meadow-Shrub Swamp	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Oak Savanna	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Wet Meadow-Shrub Swamp	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
Northern Great Lakes Coastal Marsh	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
Eastern Great Plains Wet Meadow, Prairie and Marsh	<i>Calamagrostis canadensis</i>	Graminoid C ₃	3.6	3.6
North Pacific Hypermaritime Shrub and Herbaceous Headland	<i>Calamagrostis nutkaensis</i>	Graminoid C ₃	3.6	3.6
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	<i>Calamagrostis pickeringii</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Middle Rocky Mountain Montane Douglas-fir Forest and Woodland	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Foothill Conifer Wooded Steppe	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Western Larch Savanna	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Aspen Forest and Parkland	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Poor-Site Lodgepole Pine Forest	<i>Calamagrostis rubescens</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Calamagrostis stricta</i>	Graminoid C ₃	3.6	3.6
Northern Atlantic Coastal Plain Pitch Pine Lowland	<i>Calamovilfa brevifolia</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Cliff and Outcrop	<i>Calamovilfa longifolia</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Sand Prairie	<i>Calamovilfa longifolia</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Sandhill Steppe	<i>Calamovilfa longifolia</i>	Graminoid C ₄	3.6	4.1
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Calliandra eriophylla</i>	Shrub- Evergreen	2.7	2.4
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Calocedrus decurrens</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	<i>Calocedrus decurrens</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Mixed Conifer Forest and Woodland	<i>Calocedrus decurrens</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Alpine-Montane Wet Meadow	<i>Caltha leptosepala</i>	Forb	3	3.5
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Caltha leptosepala</i>	Forb	3	3.5
North Pacific Herbaceous Bald and Bluff	<i>Camassia leichtlinii</i>	Forb	3	3.5
North Pacific Herbaceous Bald and Bluff	<i>Camassia quamash</i>	Forb	3	3.5
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Camassia quamash</i>	Forb	3	3.5
Willamette Valley Wet Prairie	<i>Camassia quamash</i>	Forb	3	3.5
Great Lakes Acidic Rocky Shore and Cliff	<i>Campanula rotundifolia</i>	Forb	3	3.5
Mediterranean California Serpentine Fen	<i>Campanula wilkinsiana</i>	Forb	3	3.5
Southern Coastal Plain Oak Dome and Hammock	<i>Campsis radicans</i>	Forb	3	3.5
Rocky Mountain Alpine-Montane Wet Meadow	<i>Cardamine cordifolia</i>	Forb	3	3.5
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Carex aquatilis</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wooded Dune and Swale	<i>Carex aquatilis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Carex aquatilis</i>	Graminoid C ₃	3.6	3.6
North Pacific Shrub Swamp	<i>Carex aquatilis</i>	Graminoid C ₃	3.6	3.6
Southern and Central Appalachian Bog and Fen	<i>Carex atlantica</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Carex bicknellii</i>	Graminoid C ₃	3.6	3.6
Acadian-Appalachian Alpine Tundra	<i>Carex bigelowii</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Carex bolanderi</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Carex buxbaumii</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Subalpine-Montane Fen	<i>Carex buxbaumii</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Rocky Mountain Subalpine-Montane Fen	<i>Carex buxbaumii</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Serpentine Fen	<i>Carex californica</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Blackland Prairie and Woodland	<i>Carex cherokeensis</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Limestone Forest	<i>Carex cherokeensis</i>	Graminoid C ₃	3.6	3.6
West Gulf Coastal Plain Northern Calcareous Prairie	<i>Carex cherokeensis</i>	Graminoid C ₃	3.6	3.6
West Gulf Coastal Plain Southern Calcareous Prairie	<i>Carex cherokeensis</i>	Graminoid C ₃	3.6	3.6
Ozark-Ouachita Riparian	<i>Carex crinita</i>	Graminoid C ₃	3.6	3.6
Willamette Valley Wet Prairie	<i>Carex densa</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Vernal Pool	<i>Carex douglasii</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Subalpine-Montane Fen	<i>Carex echinata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Carex elynoides</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Subalpine Meadow	<i>Carex exserta</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Carex exsiccata</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Carex filifolia</i>	Graminoid C ₃	3.6	3.6
Eastern Great Plains Wet Meadow, Prairie and Marsh	<i>Carex frankii</i>	Graminoid C ₃	3.6	3.6
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Carex geyeri</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Carex geyeri</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	<i>Carex geyeri</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Carex geyeri</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Nonriverine Basin Swamp	<i>Carex glaucescens</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Carex hoodii</i>	Graminoid C ₃	3.6	3.6
Eastern Great Plains Wet Meadow, Prairie and Marsh	<i>Carex hyalinolepis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Carex illota</i>	Graminoid C ₃	3.6	3.6
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Carex inops</i>	Graminoid C ₃	3.6	3.6
Central Interior Acidic Cliff and Talus	<i>Carex interior</i>	Graminoid C ₃	3.6	3.6
Ozark-Ouachita Riparian	<i>Carex interior</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Wet Meadow-Shrub Swamp	<i>Carex lacustris</i>	Graminoid C ₃	3.6	3.6
Northern Great Lakes Coastal Marsh	<i>Carex lacustris</i>	Graminoid C ₃	3.6	3.6
Boreal-Laurentian Conifer Acidic Swamp and Treed Poor Fen	<i>Carex lasiocarpa</i>	Graminoid C ₃	3.6	3.6
Great Plains Prairie Pothole	<i>Carex lasiocarpa</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Carex lasiocarpa</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Subalpine-Montane Fen	<i>Carex lenticularis</i>	Graminoid C ₃	3.6	3.6
Central Interior Acidic Cliff and Talus	<i>Carex leptalea</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Subalpine-Montane Fen	<i>Carex limosa</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Carex limosa</i>	Graminoid C ₃	3.6	3.6
Central Interior Acidic Cliff and Talus	<i>Carex lurida</i>	Graminoid C ₃	3.6	3.6
North Pacific Intertidal Freshwater Wetland	<i>Carex lyngbyei</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Carex lyngbyei</i>	Graminoid C ₃	3.6	3.6
North Pacific Alpine and Subalpine Bedrock and Scree	<i>Carex microchaeta</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Carex microptera</i>	Graminoid C ₃	3.6	3.6
Southern Appalachian Rocky Summit	<i>Carex misera</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Carex nardina</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Carex nigricans</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Carex nigricans</i>	Graminoid C ₃	3.6	3.6
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Carex nigricans</i>	Graminoid C ₃	3.6	3.6
North Pacific Intertidal Freshwater Wetland	<i>Carex obnupta</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Carex obtusata</i>	Graminoid C ₃	3.6	3.6
Great Plains Prairie Pothole	<i>Carex oligosperma</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Carex pellita</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Subalpine-Montane Fen	<i>Carex pellita</i>	Graminoid C ₃	3.6	3.6
Eastern Great Plains Wet Meadow, Prairie and Marsh	<i>Carex pellita</i>	Graminoid C ₃	3.6	3.6
Central and Southern Appalachian Montane Oak Forest	<i>Carex pensylvanica</i>	Graminoid C ₃	3.6	3.6
North American Warm Desert Cienega	<i>Carex praegracilis</i>	Graminoid C ₃	3.6	3.6
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Carex rossii</i>	Graminoid C ₃	3.6	3.6
North Pacific Coastal Cliff and Bluff	<i>Carex rossii</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	<i>Carex rossii</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Emergent Marsh	<i>Carex rostrata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Carex rupestris</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Carex scirpoidea</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Carex scirpoidea</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Carex scopulorum</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Carex siccata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Carex simulata</i>	Graminoid C ₃	3.6	3.6
North Pacific Maritime Mesic Subalpine Parkland	<i>Carex spectabilis</i>	Graminoid C ₃	3.6	3.6
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Carex spectabilis</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Dry Bur Oak Forest and Woodland	<i>Carex sprengeii</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Nonriverine Basin Swamp	<i>Carex striata</i>	Graminoid C ₃	3.6	3.6
Great Lakes Wooded Dune and Swale	<i>Carex stricta</i>	Graminoid C ₃	3.6	3.6
Laurentian-Acadian Wet Meadow-Shrub Swamp	<i>Carex stricta</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Carex stricta</i>	Graminoid C ₃	3.6	3.6
High Allegheny Wetland	<i>Carex trisperma</i>	Graminoid C ₃	3.6	3.6
Willamette Valley Wet Prairie	<i>Carex unilateralis</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Interdunal Swale Wetland	<i>Carex utriculata</i>	Graminoid C ₃	3.6	3.6
North Pacific Shrub Swamp	<i>Carex utriculata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Carex utriculata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Carex utriculata</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Temperate Pacific Freshwater Emergent Marsh	<i>Carex utriculata</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Carex utriculata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Carex vernacula</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Alpine Dry Tundra	<i>Carex vernacula</i>	Graminoid C ₃	3.6	3.6
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Carnegiea gigantea</i>	Forb	3	3.5
Mediterranean California Southern Coastal Dune	<i>Carpobrotus chilensis</i>	Forb	3	3.5
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Carya alba</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	<i>Carya alba</i>	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	<i>Carya alba</i>	Tree- Deciduous	3	4.2
North-Central Interior Dry-Mesic Oak Forest and Woodland	<i>Carya alba</i>	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Carya alba</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	<i>Carya alba</i>	Tree- Deciduous	3	4.2
Southern Interior Low Plateau Dry-Mesic Oak Forest	<i>Carya alba</i>	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Carya alba</i>	Tree- Deciduous	3	4.2
Mississippi River Bottomland Depression	<i>Carya aquatica</i>	Tree- Deciduous	3	4.2
Mississippi River Low Floodplain (Bottomland) Forest	<i>Carya aquatica</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	<i>Carya carolinae-septentrionalis</i>	Tree- Deciduous	3	4.2
Crosstimbers Oak Forest and Woodland	<i>Carya cordiformis</i>	Tree- Deciduous	3	4.2
North-Central Interior Dry-Mesic Oak Forest and Woodland	<i>Carya cordiformis</i>	Tree- Deciduous	3	4.2
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
Appalachian Shale Barrens	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Maritime Forest	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Dry Upland Hardwood Forest	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Dry Upland Hardwood Forest	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Carya glabra</i>	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	<i>Carya illinoensis</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Carya illinoensis</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Carya illinoensis</i>	Tree- Deciduous	3	4.2
Mississippi River Floodplain and Riparian Forest	<i>Carya illinoensis</i>	Tree- Deciduous	3	4.2
Mississippi River Riparian Forest	<i>Carya illinoensis</i>	Tree- Deciduous	3	4.2
North-Central Interior Dry-Mesic Oak Forest and Woodland	<i>Carya ovata</i>	Tree- Deciduous	3	4.2
Southern Interior Low Plateau Dry-Mesic Oak Forest	<i>Carya ovata</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Flatwoods	<i>Carya ovata</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Carya ovata</i>	Tree- Deciduous	3	4.2
Southern Ridge and Valley / Cumberland Dry Calcareous Forest	<i>Carya ovata</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
East Gulf Coastal Plain Maritime Forest	<i>Carya pallida</i>	Tree- Deciduous	3	4.2
Crosstimbers Oak Forest and Woodland	<i>Carya texana</i>	Tree- Deciduous	3	4.2
Crowley's Ridge Sand Forest	<i>Carya texana</i>	Tree- Deciduous	3	4.2
East-Central Texas Plains Post Oak Savanna and Woodland	<i>Carya texana</i>	Tree- Deciduous	3	4.2
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	<i>Carya texana</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	<i>Carya texana</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Forest	<i>Carya texana</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Stream Terrace Sandyland Longleaf Pine Woodland	<i>Carya texana</i>	Tree- Deciduous	3	4.2
Llano Uplift Acidic Forest, Woodland and Glade	<i>Carya texana</i>	Tree- Deciduous	3	4.2
Rocky Mountain Alpine Dwarf-Shrubland	<i>Cassiope mertensiana</i>	Shrub	2.7	2.8
North Pacific Maritime Mesic Subalpine Parkland	<i>Cassiope mertensiana</i>	Shrub- Evergreen	2.7	2.4
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Cassiope mertensiana</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Calcareous Thornscurb	<i>Castela erecta</i>	Shrub- Deciduous	2.7	3
Mediterranean California Alpine Dry Tundra	<i>Castilleja nana</i>	Forb	3	3.5
California Montane Woodland and Chaparral	<i>Ceanothus cordulatus</i>	Shrub- Evergreen	2.7	2.4
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	<i>Ceanothus cordulatus</i>	Shrub- Evergreen	2.7	2.4
Southern California Dry-Mesic Chaparral	<i>Ceanothus crassifolius</i>	Shrub- Evergreen	2.7	2.4
California Xeric Serpentine Chaparral	<i>Ceanothus cuneatus</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Mesic Serpentine Woodland and Chaparral	<i>Ceanothus cuneatus</i>	Shrub- Evergreen	2.7	2.4
California Montane Woodland and Chaparral	<i>Ceanothus diversifolius</i>	Shrub- Evergreen	2.7	2.4
Great Basin Semi-Desert Chaparral	<i>Ceanothus greggii</i>	Shrub- Evergreen	2.7	2.4
Madrean Oriental Chaparral	<i>Ceanothus greggii</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Semi-Desert Chaparral	<i>Ceanothus greggii</i>	Shrub- Evergreen	2.7	2.4
Southern California Dry-Mesic Chaparral	<i>Ceanothus greggii</i>	Shrub- Evergreen	2.7	2.4
California Montane Woodland and Chaparral	<i>Ceanothus integerrimus</i>	Shrub- Deciduous	2.7	3
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Ceanothus integerrimus</i>	Shrub- Deciduous	2.7	3
Southern California Dry-Mesic Chaparral	<i>Ceanothus leucodermis</i>	Shrub- Evergreen	2.7	2.4
Southern California Dry-Mesic Chaparral	<i>Ceanothus megacarpus</i>	Shrub- Evergreen	2.7	2.4
California Maritime Chaparral	<i>Ceanothus oliganthus</i>	Shrub- Evergreen	2.7	2.4
Southern California Oak Woodland and Savanna	<i>Ceanothus oliganthus</i>	Shrub- Evergreen	2.7	2.4
California Montane Woodland and Chaparral	<i>Ceanothus sanguineus</i>	Shrub- Evergreen	2.7	2.4
Northern California Coastal Scrub	<i>Ceanothus thrysiflorus</i>	Shrub- Evergreen	2.7	2.4
Great Basin Semi-Desert Chaparral	<i>Ceanothus velutinus</i>	Shrub- Evergreen	2.7	2.4
North Pacific Montane Shrubland	<i>Ceanothus velutinus</i>	Shrub- Evergreen	2.7	2.4
Mississippi Delta Maritime Forest	<i>Celtis laevigata</i>	Shrub- Deciduous	2.7	3
Southern Piedmont Large Floodplain Forest	<i>Celtis laevigata</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
Edwards Plateau Riparian	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
West Gulf Coastal Plain Southern Calcareous Prairie	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Chenier and Upper Texas Coastal Fringe Forest and Woodland	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Woodland and Shrubland	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Celtis laevigata</i>	Tree- Deciduous	3	4.2
Tamaulipan Calcareous Thornscurb	<i>Celtis pallida</i>	Shrub- Deciduous	2.7	3
Tamaulipan Mixed Deciduous Thornscurb	<i>Celtis pallida</i>	Shrub- Deciduous	2.7	3
Tamaulipan Ramadero	<i>Celtis pallida</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Small Stream and River Floodplain Forest	<i>Cephalanthus occidentalis</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Cephalanthus occidentalis</i>	Shrub- Deciduous	2.7	3
North-Central Interior Wet Meadow-Shrub Swamp	<i>Cephalanthus occidentalis</i>	Shrub- Deciduous	2.7	3
Piedmont Upland Depression Swamp	<i>Cephalanthus occidentalis</i>	Shrub- Deciduous	2.7	3
Southern Coastal Plain Nonriverine Cypress Dome	<i>Cephalanthus occidentalis</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Dune and Coastal Grassland	<i>Ceratiola ericoides</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Xeric River Dune	<i>Ceratiola ericoides</i>	Shrub	2.7	2.8
Florida Peninsula Inland Scrub	<i>Ceratiola ericoides</i>	Shrub- Evergreen	2.7	2.4
Nashville Basin Limestone Glade and Woodland	<i>Cercis canadensis</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Weches Glade	<i>Cercis canadensis</i>	Tree- Deciduous	3	4.2
Colorado Plateau Pinyon-Juniper Woodland	<i>Cercocarpus intricatus</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Mixed Bedrock Canyon and Tableland	<i>Cercocarpus intricatus</i>	Shrub- Evergreen	2.7	2.4
Columbia Plateau Western Juniper Woodland and Savanna	<i>Cercocarpus ledifolius</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	<i>Cercocarpus ledifolius</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	<i>Cercocarpus ledifolius</i>	Shrub- Evergreen	2.7	2.4
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Cercocarpus ledifolius</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Cercocarpus ledifolius</i>	Shrub- Evergreen	2.7	2.4
Sierra Nevada Cliff and Canyon	<i>Cercocarpus ledifolius</i>	Shrub- Evergreen	2.7	2.4
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Madrean Oriental Chaparral	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Mogollon Chaparral	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Volcanic Rockland	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Southwestern Great Plains Canyon	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
California Mesic Chaparral	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Semi-Desert Chaparral	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Southern California Coast Ranges Cliff and Canyon	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Mogollon Chaparral	<i>Cercocarpus montanus</i>	Shrub- Evergreen	2.7	2.4
Edwards Plateau Upland Depression	<i>Chaetopappa bellidifolia</i>	Forb	3	3.5
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	<i>Chamaecyparis lawsoniana</i>	Tree- Evergreen	3.2	2.2
North Pacific Avalanche Chute Shrubland	<i>Chamaecyparis nootkatensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Dry-Mesic Silver Fir-Western Hemlock-Douglas-fir Forest	<i>Chamaecyparis nootkatensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	<i>Chamaecyparis nootkatensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic Subalpine Parkland	<i>Chamaecyparis nootkatensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Mesic Western Hemlock-Silver Fir Forest	<i>Chamaecyparis nootkatensis</i>	Tree- Evergreen	3.2	2.2
Northern Atlantic Coastal Plain Pitch Pine Lowland	<i>Chamaecyparis thyooides</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Chamaecyparis thyooides</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Hydric Hammock	<i>Chamaecyparis thyooides</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Chamaecyparis thyooides</i>	Tree- Evergreen	3.2	2.2
Boreal-Laurentian Bog	<i>Chamaedaphne calyculata</i>	Shrub	2.7	2.8
Boreal-Laurentian Conifer Acidic Swamp and Treed Poor Fen	<i>Chamaedaphne calyculata</i>	Shrub	2.7	2.8
North-Central Interior and Appalachian Acidic Peatland	<i>Chamaedaphne calyculata</i>	Shrub	2.7	2.8
Northern Atlantic Coastal Plain Sandy Beach	<i>Chamaesyce polygonifolia</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Florida Beach	<i>Chamaesyce polygonifolia</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Sea Island Beach	<i>Chamaesyce polygonifolia</i>	Forb	3	3.5
Rocky Mountain Subalpine-Montane Mesic Meadow	<i>Chamerion angustifolium</i>	Forb	3	3.5
Eastern Highland Rim Prairie and Barrens	<i>Chasmanthium laxum</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Chasmanthium sessiliflorum</i>	Graminoid C ₃	3.6	3.6
West Gulf Coastal Plain Small Stream and River Forest	<i>Chasmanthium sessiliflorum</i>	Graminoid C ₃	3.6	3.6
North American Warm Desert Wash	<i>Chilopsis linearis</i>	Tree- Deciduous	3	4.2
Tamaulipan Savanna Grassland	<i>Chloris pluriflora</i>	Graminoid C ₄	3.6	4.1
California Montane Woodland and Chaparral	<i>Chrysolepis sempervirens</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Dune and Coastal Grassland	<i>Chrysoma pauciflosculosa</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Xeric River Dune	<i>Chrysoma pauciflosculosa</i>	Shrub	2.7	2.8
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Chrysothamnus Greenei</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Chrysothamnus Greenei</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Pinyon-Juniper Shrubland	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Columbia Plateau Low Sagebrush Steppe	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Active and Stabilized Dune	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Greasewood Flat	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
Southern Colorado Plateau Sand Shrubland	<i>Chrysothamnus viscidiflorus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Alpine Bedrock and Scree	<i>Cirsium scopulorum</i>	Forb	3	3.5
Tamaulipan Lomas	<i>Citharexylum berlandieri</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	<i>Cladium mariscus</i>	Graminoid C ₃	3.6	3.6
South Florida Everglades Sawgrass Marsh	<i>Cladium mariscus</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Clethra alnifolia</i>	Shrub- Deciduous	2.7	3
Southern Coastal Plain Nonriverine Cypress Dome	<i>Clethra alnifolia</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Clethra alnifolia</i>	Shrub- Deciduous	2.7	3
Southern Coastal Plain Nonriverine Basin Swamp	<i>Cliftonia monophylla</i>	Shrub- Evergreen	2.7	2.4
Southern Coastal Plain Seepage Swamp and Baygall	<i>Cliftonia monophylla</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Cliftonia monophylla</i>	Shrub- Evergreen	2.7	2.4
South Florida Hardwood Hammock	<i>Coccoloba diversifolia</i>	Tree- Evergreen	3.2	2.2
Southeast Florida Coastal Strand and Maritime Hammock	<i>Coccoloba uvifera</i>	Shrub- Evergreen	2.7	2.4
Southwest Florida Coastal Strand and Maritime Hammock	<i>Coccoloba uvifera</i>	Shrub- Evergreen	2.7	2.4
Southwest Florida Dune and Coastal Grassland	<i>Coccoloba uvifera</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Coleogyne ramosissima</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Pinyon-Juniper Woodland	<i>Coleogyne ramosissima</i>	Shrub- Deciduous	2.7	3
Great Basin Pinyon-Juniper Woodland	<i>Coleogyne ramosissima</i>	Shrub- Deciduous	2.7	3
Mojave Mid-Elevation Mixed Desert Scrub	<i>Coleogyne ramosissima</i>	Shrub- Deciduous	2.7	3
South Florida Mangrove Swamp	<i>Conocarpus erectus</i>	Shrub- Evergreen	2.7	2.4
Cumberland Riverscour	<i>Coreopsis tripteris</i>	Forb	3	3.5
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Cornus amomum</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Tidal Swamp	<i>Cornus amomum</i>	Tree- Deciduous	3	4.2
Central Atlantic Coastal Plain Maritime Forest	<i>Cornus florida</i>	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Cornus florida</i>	Tree- Deciduous	3	4.2
Central Atlantic Coastal Plain Maritime Forest	<i>Cornus foemina</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Cornus foemina</i>	Tree- Deciduous	3	4.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Cornus nuttallii</i>	Tree- Deciduous	3	4.2
California Central Valley Riparian Woodland and Shrubland	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
Columbia Basin Foothill Riparian Woodland and Shrubland	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
North Pacific Intertidal Freshwater Wetland	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
North Pacific Shrub Swamp	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
North-Central Interior Wet Meadow-Shrub Swamp	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
Northwestern Great Plains Riparian	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Cornus sericea</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Cornus sericea</i>	Tree- Deciduous	3	4.2
North Pacific Lowland Riparian Forest and Shrubland	<i>Cornus sericea</i>	Tree- Deciduous	3	4.2
Eastern Great Plains Tallgrass Aspen Parkland	<i>Corylus americana</i>	Shrub- Deciduous	2.7	3
North-Central Interior Oak Savanna	<i>Corylus americana</i>	Shrub- Deciduous	2.7	3
Laurentian Jack Pine-Red Pine Forest	<i>Corylus cornuta</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Mesic Mixed Conifer Forest and Woodland	<i>Corylus cornuta</i>	Shrub- Evergreen	2.7	2.4
Laurentian-Acadian Northern Pine-(Oak) Forest	<i>Corylus cornuta</i>	Shrub- Evergreen	2.7	2.4
Temperate Pacific Freshwater Mudflat	<i>Crassula aquatica</i>	Forb	3	3.5
Northwestern Great Plains Shrubland	<i>Crataegus douglasii</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Crataegus opaca</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Crataegus rivularis</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Crataegus viridis</i>	Shrub- Deciduous	2.7	3
Mediterranean California Southern Coastal Dune	<i>Croton californicus</i>	Forb	3	3.5
South Florida Wet Marl Prairie	<i>Croton linearis</i>	Shrub- Evergreen	2.7	2.4
West Gulf Coastal Plain Catahoula Barrens	<i>Croton michauxii</i>	Forb	3	3.5
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Ctenium aromaticum</i>	Graminoid C ₄	3.6	4.1
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Cupressus arizonica</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Serpentine Foothill and Lower Montane Riparian Woodland and Seep	<i>Cupressus sargentii</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Floodplain Terrace	<i>Cynodon dactylon</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Riparian	<i>Cynodon dactylon</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Floodplain	<i>Cynodon dactylon</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Ramadero	<i>Cynodon dactylon</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Cyrilla racemiflora</i>	Shrub- Evergreen	2.7	2.4
Southeastern Coastal Plain Natural Lakeshore	<i>Cyrilla racemiflora</i>	Shrub- Evergreen	2.7	2.4
Southern Coastal Plain Nonriverine Basin Swamp	<i>Cyrilla racemiflora</i>	Shrub- Evergreen	2.7	2.4
Southern Coastal Plain Seepage Swamp and Baygall	<i>Cyrilla racemiflora</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Cyrilla racemiflora</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Near-Coast Pine Flatwoods	<i>Cyrilla racemiflora</i>	Shrub- Evergreen	2.7	2.4
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Dalea formosa</i>	Shrub- Deciduous	2.7	3
California Mesic Serpentine Grassland	<i>Danthonia californica</i>	Graminoid C ₃	3.6	3.6
California Northern Coastal Grassland	<i>Danthonia californica</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Mixed Oak Woodland	<i>Danthonia californica</i>	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	<i>Danthonia californica</i>	Graminoid C ₃	3.6	3.6
Willamette Valley Upland Prairie and Savanna	<i>Danthonia californica</i>	Graminoid C ₃	3.6	3.6
Willamette Valley Wet Prairie	<i>Danthonia californica</i>	Graminoid C ₃	3.6	3.6
Southern Appalachian Grass and Shrub Bald	<i>Danthonia compressa</i>	Graminoid C ₃	3.6	3.6

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Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Danthonia intermedia</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Danthonia intermedia</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Danthonia intermedia</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Danthonia intermedia</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Danthonia parryi</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Danthonia parryi</i>	Graminoid C ₃	3.6	3.6
Southern Appalachian Granitic Dome	<i>Danthonia sericea</i>	Graminoid C ₃	3.6	3.6
Southern Piedmont Glade and Barrens	<i>Danthonia sericea</i>	Graminoid C ₃	3.6	3.6
Central Appalachian Pine-Oak Rocky Woodland	<i>Danthonia spicata</i>	Graminoid C ₃	3.6	3.6
Great Lakes Acidic Rocky Shore and Cliff	<i>Danthonia spicata</i>	Graminoid C ₃	3.6	3.6
Southern Piedmont Cliff	<i>Danthonia spicata</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Dasiphora fruticosa</i>	Shrub- Evergreen	2.7	2.4
Great Lakes Alvar	<i>Dasiphora fruticosa</i>	Shrub- Evergreen	2.7	2.4
Northwestern Great Plains Shrubland	<i>Dasiphora fruticosa</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Alpine Dwarf-Shrubland	<i>Dasiphora fruticosa</i>	Shrub- Evergreen	2.7	2.4
Chihuahuan Gypsophilous Grassland and Steppe	<i>Dasyochloa pulchella</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Small Stream and River Floodplain Forest	<i>Decodon verticillatus</i>	Shrub- Deciduous	2.7	3
Central and Southern Appalachian Montane Oak Forest	<i>Dennstaedtia punctilobula</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Serpentine Fen	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Willamette Valley Wet Prairie	<i>Deschampsia caespitosa</i>	Graminoid C ₃	3.6	3.6
Central and Southern Appalachian Montane Oak Forest	<i>Deschampsia flexuosa</i>	Graminoid C ₃	3.6	3.6
Central Appalachian Pine-Oak Rocky Woodland	<i>Deschampsia flexuosa</i>	Graminoid C ₃	3.6	3.6
Central Interior Acidic Cliff and Talus	<i>Deschampsia flexuosa</i>	Graminoid C ₃	3.6	3.6
Ouachita Montane Oak Forest	<i>Deschampsia flexuosa</i>	Graminoid C ₃	3.6	3.6
Acadian-Appalachian Alpine Tundra	<i>Diapensia lapponica</i>	Shrub	2.7	2.8
Eastern Highland Rim Prairie and Barrens	<i>Dichanthelium aciculare</i>	Graminoid C ₃	3.6	3.6
Eastern Highland Rim Prairie and Barrens	<i>Dichanthelium dichotomum</i>	Graminoid C ₃	3.6	3.6
Florida Dry Prairie	<i>Dichanthelium dichotomum</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Dichanthelium erectifolium</i>	Graminoid C ₃	3.6	3.6
Florida Dry Prairie	<i>Dichanthelium strigosum</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Clay-Based Carolina Bay Wetland	<i>Dichanthelium wrightianum</i>	Graminoid C ₃	3.6	3.6
Central Florida Herbaceous Pondshore	<i>Dichanthelium wrightianum</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Dichanthelium wrightianum</i>	Graminoid C ₃	3.6	3.6

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Southern Atlantic Coastal Plain Depression Pond	<i>Dichanthelium wrightianum</i>	Graminoid C ₃	3.6	3.6
Madrean Encinal	<i>Digitaria californica</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Limestone Shrubland	<i>Diospyros texana</i>	Shrub- Deciduous	2.7	3
Tamaulipan Floodplain	<i>Diospyros texana</i>	Tree- Deciduous	3	4.2
Tamaulipan Palm Grove Riparian Forest	<i>Diospyros texana</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Diospyros virginiana</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Oak Dome and Hammock	<i>Diospyros virginiana</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Diospyros virginiana</i>	Tree- Deciduous	3	4.2
Southern California Coastal Scrub	<i>Diplacus aurantiacus</i>	Shrub- Evergreen	2.7	2.4
Acadian Coastal Salt Marsh	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Mixed Salt Desert Scrub	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Florida Big Bend Salt and Brackish Tidal Marsh	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Alkaline Closed Depression	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Greasewood Flat	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Wash	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Mediterranean California Southern Coastal Dune	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
North American Warm Desert Cienega	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
North American Warm Desert Playa	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Northern Atlantic Coastal Plain Tidal Salt Marsh	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Sonora-Mojave Mixed Salt Desert Scrub	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Dune and Maritime Grassland	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Texas Coast Salt and Brackish Tidal Marsh	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Saline Depression Wetland	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Depressional Wetland Systems	<i>Distichlis spicata</i>	Graminoid C ₄	3.6	4.1
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Dodecatheon jeffreyi</i>	Forb	3	3.5
Mediterranean California Alpine Fell-Field	<i>Draba densifolia</i>	Forb	3	3.5
Rocky Mountain Alpine Dwarf-Shrubland	<i>Dryas octopetala</i>	Shrub	2.7	2.8
Southern Coastal Plain Nonriverine Basin Swamp	<i>Dulichium arundinaceum</i>	Graminoid C ₃	3.6	3.6
Tamaulipan Lomas	<i>Ebenopsis ebano</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Floodplain	<i>Ebenopsis ebano</i>	Tree- Evergreen	3.2	2.2
Central Mixedgrass Prairie	<i>Echinacea angustifolia</i>	Forb	3	3.5
Tamaulipan Floodplain	<i>Ehretia anacua</i>	Tree- Evergreen	3.2	2.2
Northwestern Great Plains Shrubland	<i>Elaeagnus commutata</i>	Shrub- Deciduous	2.7	3
South Florida Everglades Sawgrass Marsh	<i>Eleocharis cellulosa</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Eleocharis elongata</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Eleocharis equisetoides</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Eleocharis microcarpa</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Mudflat	<i>Eleocharis obtusa</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Great Lakes Freshwater Estuary and Delta	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
North American Warm Desert Cienega	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
North American Warm Desert Playa	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Wooded Vernal Pool	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Intertidal Flat	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Closed Depression Wetland	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	<i>Eleocharis palustris</i>	Graminoid C ₃	3.6	3.6
Texas-Louisiana Coastal Prairie Pondshore	<i>Eleocharis quadrangulata</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Serpentine Fen	<i>Eleocharis quinqueflora</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Eleocharis quinqueflora</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Steppe and Grassland	<i>Elymus elymoides</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Elymus elymoides</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Elymus elymoides</i>	Graminoid C ₃	3.6	3.6
Klamath-Siskiyou Cliff and Outcrop	<i>Elymus elymoides</i>	Graminoid C ₃	3.6	3.6
North Pacific Montane Grassland	<i>Elymus elymoides</i>	Graminoid C ₃	3.6	3.6
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Elymus glaucus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Elymus glaucus</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Mixed Oak Woodland	<i>Elymus glaucus</i>	Graminoid C ₃	3.6	3.6
North Pacific Coastal Cliff and Bluff	<i>Elymus glaucus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Elymus lanceolatus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Elymus lanceolatus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Elymus lanceolatus</i>	Graminoid C ₃	3.6	3.6
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Elymus trachycaulus</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Elymus trachycaulus</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Riparian	<i>Elymus trachycaulus</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Elymus trachycaulus</i>	Graminoid C ₃	3.6	3.6
Acadian-Appalachian Alpine Tundra	<i>Empetrum nigrum</i>	Shrub	2.7	2.8
Southern California Coastal Scrub	<i>Encelia californica</i>	Shrub- Deciduous	2.7	3
Sonoran Mid-Elevation Desert Scrub	<i>Encelia farinosa</i>	Shrub- Deciduous	2.7	3
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Encelia farinosa</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Ephedra nevadensis</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Ephedra nevadensis</i>	Shrub- Evergreen	2.7	2.4
Mojave Mid-Elevation Mixed Desert Scrub	<i>Ephedra nevadensis</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Ephedra torreyana</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Shale Badland	<i>Ephedra torreyana</i>	Shrub- Evergreen	2.7	2.4
Southern Colorado Plateau Sand Shrubland	<i>Ephedra torreyana</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Ephedra viridis</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Active and Stabilized Dune	<i>Ephedra viridis</i>	Shrub- Evergreen	2.7	2.4
Southern Colorado Plateau Sand Shrubland	<i>Ephedra viridis</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Ephedra viridis</i>	Shrub- Evergreen	2.7	2.4
Southern Colorado Plateau Sand Shrubland	<i>Ephedra viridis</i>	Shrub- Evergreen	2.7	2.4
North Pacific Shrub Swamp	<i>Equisetum fluviatile</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Mudflat	<i>Eragrostis hypnoides</i>	Graminoid C ₄	3.6	4.1
Madrean Encinal	<i>Eragrostis intermedia</i>	Graminoid C ₄	3.6	4.1
Rocky Mountain Alpine Fell-Field	<i>Eremogone capillaris</i>	Forb	3	3.5
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Eremogone hookeri</i>	Forb	3	3.5
Sierra Nevada Alpine Dwarf-Shrubland	<i>Ericameria discoidea</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Badland	<i>Ericameria linearifolia</i>	Shrub- Deciduous	2.7	3
Sonoran Mid-Elevation Desert Scrub	<i>Ericameria linearifolia</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Active and Stabilized Dune	<i>Ericameria nauseosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Ericameria nauseosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Greasewood Flat	<i>Ericameria nauseosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Ericameria nauseosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Wash	<i>Ericameria nauseosa</i>	Shrub- Deciduous	2.7	3
Southern Colorado Plateau Sand Shrubland	<i>Ericameria nauseosa</i>	Shrub- Deciduous	2.7	3
Southern Coastal Plain Nonriverine Basin Swamp	<i>Eriocaulon compressum</i>	Forb	3	3.5
Southern California Coastal Scrub	<i>Eriogonum cinereum</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Badland	<i>Eriogonum fasciculatum</i>	Forb	3	3.5
Mojave Mid-Elevation Mixed Desert Scrub	<i>Eriogonum fasciculatum</i>	Shrub	2.7	2.8
Southern California Coastal Scrub	<i>Eriogonum fasciculatum</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Badland	<i>Eriogonum inflatum</i>	Forb	3	3.5
Mediterranean California Serpentine Barrens	<i>Eriogonum nudum</i>	Forb	3	3.5
Sierra Nevada Alpine Dwarf-Shrubland	<i>Eriogonum ovalifolium</i>	Forb	3	3.5
Columbia Plateau Scabland Shrubland	<i>Eriogonum thymoides</i>	Forb	3	3.5
Mediterranean California Serpentine Barrens	<i>Eriogonum ursinum</i>	Forb	3	3.5
North-Central Interior and Appalachian Acidic Peatland	<i>Eriophorum virginicum</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Nonriverine Basin Swamp	<i>Eriophorum virginicum</i>	Graminoid C ₃	3.6	3.6
Sonora-Mojave Mixed Salt Desert Scrub	<i>Erodium cicutarium</i>	Forb	3	3.5
South Florida Hardwood Hammock	<i>Eugenia axillaris</i>	Shrub- Evergreen	2.7	2.4
South Florida Hardwood Hammock	<i>Eugenia foetida</i>	Shrub- Evergreen	2.7	2.4
Eastern Highland Rim Prairie and Barrens	<i>Eurybia hemispherica</i>	Forb	3	3.5
Great Lakes Acidic Rocky Shore and Cliff	<i>Euthamia graminifolia</i>	Forb	3	3.5
Tamaulipan Calcareous Thornscrub	<i>Eysenhardtia texana</i>	Shrub- Deciduous	2.7	3
Crowley's Ridge Mesic Loess Slope Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Bluff Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Mesic Hardwood Slope Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loess Bluff Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
North-Central Interior Beech-Maple Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
North-Central Interior Maple-Basswood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
South-Central Interior Mesophytic Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Southern and Central Appalachian Cove Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Southern Appalachian Northern Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Mesic Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Mesic Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	<i>Fagus grandifolia</i>	Tree- Deciduous	3	4.2
Inter-Mountain Basins Volcanic Rock and Cinder Land	<i>Fallugia paradoxa</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Wash	<i>Fallugia paradoxa</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Wash	<i>Fallugia paradoxa</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Festuca arizonica</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Festuca arizonica</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Festuca brachyphylla</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Mixed Oak Woodland	<i>Festuca californica</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Festuca campestris</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Mixedgrass Prairie	<i>Festuca campestris</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Festuca campestris</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Festuca campestris</i>	Graminoid C ₃	3.6	3.6
California Northern Coastal Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Foothill and Canyon Dry Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Palouse Prairie	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Mixed Oak Woodland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
North Pacific Alpine and Subalpine Dry Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
North Pacific Montane Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Mixedgrass Prairie	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Mesic Meadow	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Festuca idahoensis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Festuca kingii</i>	Graminoid C ₃	3.6	3.6

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North Pacific Alpine and Subalpine Dry Grassland	<i>Festuca roemerii</i>	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	<i>Festuca roemerii</i>	Graminoid C ₃	3.6	3.6
Willamette Valley Upland Prairie and Savanna	<i>Festuca roemerii</i>	Graminoid C ₃	3.6	3.6
California Northern Coastal Grassland	<i>Festuca rubra</i>	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	<i>Festuca rubra</i>	Graminoid C ₃	3.6	3.6
North Pacific Hypermaritime Shrub and Herbaceous Headland	<i>Festuca rubra</i>	Graminoid C ₃	3.6	3.6
North Pacific Maritime Coastal Sand Dune and Strand	<i>Festuca rubra</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Festuca rubra</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Festuca thurberi</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Festuca thurberi</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Festuca thurberi</i>	Graminoid C ₃	3.6	3.6
North Pacific Alpine and Subalpine Dry Grassland	<i>Festuca viridula</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Festuca viridula</i>	Graminoid C ₃	3.6	3.6
Southeastern Coastal Plain Interdunal Wetland	<i>Fimbristylis castanea</i>	Graminoid C ₃	3.6	3.6
North American Warm Desert Cienega	<i>Flaveria chlorifolia</i>	Forb	3	3.5
Chihuahuan Creosotebush Desert Scrub	<i>Flourensia cernua</i>	Shrub- Deciduous	2.7	3
Chihuahuan Loamy Plains Desert Grassland	<i>Flourensia cernua</i>	Shrub- Deciduous	2.7	3
Chihuahuan Mixed Desert and Thornscrub	<i>Flourensia cernua</i>	Shrub- Deciduous	2.7	3
Chihuahuan Mixed Salt Desert Scrub	<i>Flourensia cernua</i>	Shrub- Deciduous	2.7	3
Nashville Basin Limestone Glade and Woodland	<i>Forestiera ligustrina</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Forestiera pubescens</i>	Shrub- Deciduous	2.7	3
Northern California Coastal Scrub	<i>Frangula californica</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Serpentine Foothill and Lower Montane Riparian Woodland and Seep	<i>Frangula californica</i>	Shrub- Evergreen	2.7	2.4
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Frangula purshiana</i>	Shrub- Deciduous	2.7	3
Central Appalachian Alkaline Glade and Woodland	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Crowley's Ridge Mesic Loess Slope Forest	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
North-Central Appalachian Circumneutral Cliff and Talus	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	<i>Fraxinus americana</i>	Tree- Deciduous	3	4.2
Tamaulipan Floodplain	<i>Fraxinus berlandieriana</i>	Tree- Deciduous	3	4.2
Tamaulipan Palm Grove Riparian Forest	<i>Fraxinus berlandieriana</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Small Stream and River Floodplain Forest	<i>Fraxinus caroliniana</i>	Tree- Deciduous	3	4.2
California Mesic Chaparral	<i>Fraxinus dipetala</i>	Tree- Deciduous	3	4.2
North Pacific Hardwood-Conifer Swamp	<i>Fraxinus latifolia</i>	Tree- Deciduous	3	4.2
North Pacific Lowland Riparian Forest and Shrubland	<i>Fraxinus latifolia</i>	Tree- Deciduous	3	4.2
North Pacific Shrub Swamp	<i>Fraxinus latifolia</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Northern Rocky Mountain Wooded Vernal Pool	<i>Fraxinus latifolia</i>	Tree- Deciduous	3	4.2
Eastern Boreal Floodplain	<i>Fraxinus nigra</i>	Tree- Deciduous	3	4.2
High Allegheny Wetland	<i>Fraxinus nigra</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Alkaline Conifer-Hardwood Swamp	<i>Fraxinus nigra</i>	Tree- Deciduous	3	4.2
North-Central Interior and Appalachian Rich Swamp	<i>Fraxinus nigra</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Central Appalachian River Floodplain	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Freshwater Tidal Wooded Swamp	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Large River Floodplain Forest	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Edwards Plateau Riparian	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
North-Central Interior Floodplain	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Tidal Swamp	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Northwestern Great Plains Riparian	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Tidal Wooded Swamp	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Southern Piedmont Small Floodplain and Riparian Forest	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Great Plains Wooded Draw and Ravine	<i>Fraxinus pennsylvanica</i>	Tree- Deciduous	3	4.2
Edwards Plateau Dry-Mesic Slope Forest and Woodland	<i>Fraxinus texensis</i>	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	<i>Fraxinus texensis</i>	Tree- Deciduous	3	4.2
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Fraxinus velutina</i>	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Woodland and Shrubland	<i>Fraxinus velutina</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Depression Pond	<i>Fuirena scirpoidea</i>	Graminoid C ₃	3.6	3.6
Southeastern Coastal Plain Interdunal Wetland	<i>Fuirena scirpoidea</i>	Graminoid C ₃	3.6	3.6
California Mesic Chaparral	<i>Garrya elliptica</i>	Tree- Evergreen	3.2	2.2
California Mesic Chaparral	<i>Garrya flavescens</i>	Shrub- Evergreen	2.7	2.4
Sonora-Mojave Semi-Desert Chaparral	<i>Garrya flavescens</i>	Shrub- Evergreen	2.7	2.4
Madrean Oriental Chaparral	<i>Garrya wrightii</i>	Shrub- Evergreen	2.7	2.4
North Pacific Hypermaritime Shrub and Herbaceous Headland	<i>Gaultheria shallon</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Coastal Sand Dune and Strand	<i>Gaultheria shallon</i>	Shrub- Evergreen	2.7	2.4
North Pacific Montane Shrubland	<i>Gaultheria shallon</i>	Shrub- Evergreen	2.7	2.4
Northern Atlantic Coastal Plain Heathland and Grassland	<i>Gaylussacia baccata</i>	Shrub- Deciduous	2.7	3
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	<i>Gaylussacia frondosa</i>	Shrub- Deciduous	2.7	3
Southern Piedmont Granite Flatrock and Outcrop	<i>Gelsemium sempervirens</i>	Forb	3	3.5
Rocky Mountain Alpine Fell-Field	<i>Geum rossii</i>	Forb	3	3.5

Community	Species	Classification	Resistance	Resilience
Rocky Mountain Alpine Turf	<i>Geum rossii</i>	Forb	3	3.5
Rocky Mountain Alpine Turf	<i>Geum rossii</i>	Forb	3	3.5
Temperate Pacific Intertidal Flat	<i>Glaux maritima</i>	Forb	3	3.5
Southeastern Great Plains Riparian Forest	<i>Gleditsia triacanthos</i>	Tree- Deciduous	3	4.2
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Glyceria striata</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Glyceria striata</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Mudflat	<i>Gnaphalium palustre</i>	Forb	3	3.5
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Gordonia lasianthus</i>	Shrub- Evergreen	2.7	2.4
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Columbia Plateau Ash and Tuff Badland	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Playa	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Wash	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Mojave Mid-Elevation Mixed Desert Scrub	<i>Grayia spinosa</i>	Shrub- Deciduous	2.7	3
Chihuahuan Creosotebush Desert Scrub	<i>Gutierrezia sarothrae</i>	Shrub	2.7	2.8
Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	<i>Gutierrezia sarothrae</i>	Shrub- Deciduous	2.7	3
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Gutierrezia sarothrae</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Semi-Desert Grassland	<i>Gutierrezia sarothrae</i>	Shrub- Deciduous	2.7	3
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Gutierrezia sarothrae</i>	Shrub- Deciduous	2.7	3
Western Great Plains Badlands	<i>Gutierrezia sarothrae</i>	Shrub- Deciduous	2.7	3
South Florida Hardwood Hammock	<i>Gymnanthes lucida</i>	Shrub- Evergreen	2.7	2.4
Eastern Highland Rim Prairie and Barrens	<i>Gymnopogon brevifolius</i>	Graminoid C ₄	3.6	4.1
Southern and Central Appalachian Cove Forest	<i>Halesia tetraptera</i>	Shrub- Deciduous	2.7	3
Tamaulipan Lomas	<i>Havardia pallens</i>	Shrub- Deciduous	2.7	3
Eastern Highland Rim Prairie and Barrens	<i>Helianthus angustifolius</i>	Forb	3	3.5
Tamaulipan Calcareous Thornscrub	<i>Helietta parvifolia</i>	Shrub- Evergreen	2.7	2.4
California Mesic Serpentine Grassland	<i>Hemizonia congesta</i>	Forb	3	3.5
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Active and Stabilized Dune	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Big Sagebrush Steppe	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Juniper Savanna	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Grassland	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Foothill and Piedmont Grassland	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Mixedgrass Prairie	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Sand Prairie	<i>Hesperostipa comata</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Foothill and Piedmont Grassland	<i>Hesperostipa neomexicana</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Sand and Gravel Tallgrass Prairie	<i>Hesperostipa spartea</i>	Graminoid C ₃	3.6	3.6
Northern Tallgrass Prairie	<i>Hesperostipa spartea</i>	Graminoid C ₃	3.6	3.6
Central Tallgrass Prairie	<i>Hesperostipa spartea</i>	Graminoid C ₃	3.6	3.6
California Mesic Chaparral	<i>Heteromeles arbutifolia</i>	Shrub- Evergreen	2.7	2.4
Central Interior Calcareous Cliff and Talus	<i>Heuchera americana</i>	Forb	3	3.5
Cumberland Acidic Cliff and Rockhouse	<i>Heuchera parviflora</i>	Forb	3	3.5
Southern Appalachian Montane Cliff and Talus	<i>Heuchera villosa</i>	Forb	3	3.5
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Hibiscus moscheutos</i>	Forb	3	3.5
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Hilaria belangeri</i>	Graminoid C ₄	3.6	4.1
Madrean Encinal	<i>Hilaria belangeri</i>	Graminoid C ₄	3.6	4.1
Madrean Juniper Savanna	<i>Hilaria belangeri</i>	Graminoid C ₄	3.6	4.1
California Montane Woodland and Chaparral	<i>Holodiscus discolor</i>	Shrub- Deciduous	2.7	3
Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	<i>Holodiscus discolor</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Shrubland	<i>Holodiscus discolor</i>	Shrub- Deciduous	2.7	3
Northern California Coastal Scrub	<i>Holodiscus discolor</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Holodiscus discolor</i>	Shrub- Deciduous	2.7	3
Western Great Plains Closed Depression Wetland	<i>Hordeum jubatum</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Saline Depression Wetland	<i>Hordeum jubatum</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	<i>Hordeum jubatum</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	<i>Hordeum jubatum</i>	Graminoid C ₃	3.6	3.6
Northern Atlantic Coastal Plain Dune and Swale	<i>Hudsonia tomentosa</i>	Shrub- Evergreen	2.7	2.4
Southern Appalachian Montane Cliff and Talus	<i>Hydrangea arborescens</i>	Shrub- Deciduous	2.7	3
Central and South Texas Coastal Fringe Forest and Woodland	<i>Hydrocotyle bonariensis</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Dune and Maritime Grassland	<i>Hydrocotyle bonariensis</i>	Forb	3	3.5
South Florida Shell Hash Beach	<i>Hymenocallis latifolia</i>	Forb	3	3.5
North American Warm Desert Wash	<i>Hymenoclea monogyra</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	<i>Hymenoclea salsola</i>	Shrub	2.7	2.8
Central Florida Herbaceous Pondshore	<i>Hypericum edisonianum</i>	Forb	3	3.5
East Gulf Coastal Plain Savanna and Wet Prairie	<i>Hypericum fasciculatum</i>	Shrub- Evergreen	2.7	2.4
Floridian Highlands Freshwater Marsh	<i>Hypericum fasciculatum</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Ilex coriacea</i>	Shrub- Evergreen	2.7	2.4
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Ilex coriacea</i>	Shrub- Evergreen	2.7	2.4
West Gulf Coastal Plain Seepage Swamp and Baygall	<i>Ilex coriacea</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Ilex decidua</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Ilex glabra</i>	Shrub- Evergreen	2.7	2.4
Florida Dry Prairie	<i>Ilex glabra</i>	Shrub- Evergreen	2.7	2.4
South Florida Pine Flatwoods	<i>Ilex glabra</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	<i>Ilex glabra</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Ilex glabra</i>	Shrub- Evergreen	2.7	2.4
Northern Atlantic Coastal Plain Maritime Forest	<i>Ilex opaca</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Mesic Hardwood Forest	<i>Ilex opaca</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Ilex opaca</i>	Shrub- Evergreen	2.7	2.4
West Gulf Coastal Plain Mesic Hardwood Forest	<i>Ilex opaca</i>	Shrub- Evergreen	2.7	2.4
Central Atlantic Coastal Plain Maritime Forest	<i>Ilex vomitoria</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Maritime Forest	<i>Ilex vomitoria</i>	Shrub- Evergreen	2.7	2.4
Ozark-Ouachita Riparian	<i>Impatiens capensis</i>	Forb	3	3.5
Gulf Coast Chenier Plain Beach	<i>Ipomoea imperati</i>	Forb	3	3.5
Texas Coast Beach	<i>Ipomoea imperati</i>	Forb	3	3.5
Gulf Coast Chenier Plain Beach	<i>Ipomoea pes-caprae</i>	Forb	3	3.5
Southeast Florida Beach	<i>Ipomoea pes-caprae</i>	Forb	3	3.5
Southwest Florida Beach	<i>Ipomoea pes-caprae</i>	Forb	3	3.5
Texas Coast Beach	<i>Ipomoea pes-caprae</i>	Forb	3	3.5
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Iris missouriensis</i>	Forb	3	3.5
Mediterranean California Southern Coastal Dune	<i>Isocoma menziesii</i>	Forb	3	3.5
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Itea virginica</i>	Shrub- Deciduous	2.7	3
Southwest Florida Beach	<i>Iva imbricata</i>	Forb	3	3.5
Southwest Florida Dune and Coastal Grassland	<i>Iva imbricata</i>	Forb	3	3.5
Rocky Mountain Alpine Fell-Field	<i>Ivesia gordonii</i>	Forb	3	3.5
Southern California Oak Woodland and Savanna	<i>Juglans californica</i>	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	<i>Juglans major</i>	Tree- Deciduous	3	4.2
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Juglans major</i>	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Woodland and Shrubland	<i>Juglans major</i>	Tree- Deciduous	3	4.2
Edwards Plateau Riparian	<i>Juglans microcarpa</i>	Tree- Deciduous	3	4.2
North American Warm Desert Wash	<i>Juglans microcarpa</i>	Tree- Deciduous	3	4.2
South-Central Interior Mesophytic Forest	<i>Juglans nigra</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Depression Pond	<i>Juncus abortivus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Interdunal Swale Wetland	<i>Juncus balticus</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Juncus balticus</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine-Montane Wet Meadow	<i>Juncus drummondii</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Juncus effusus</i>	Graminoid C ₃	3.6	3.6
Acadian Coastal Salt Marsh	<i>Juncus gerardii</i>	Graminoid C ₃	3.6	3.6
Northern Atlantic Coastal Plain Tidal Salt Marsh	<i>Juncus gerardii</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Juncus nevadensis</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Juncus repens</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Indian River Lagoon Tidal Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Florida Big Bend Salt and Brackish Tidal Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Gulf Coast Chenier Plain Salt and Brackish Tidal Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Salt and Brackish Tidal Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Texas Coast Salt and Brackish Tidal Marsh	<i>Juncus roemerianus</i>	Graminoid C ₃	3.6	3.6
Acadian-Appalachian Alpine Tundra	<i>Juncus trifidus</i>	Graminoid C ₃	3.6	3.6
Edwards Plateau Floodplain Terrace	<i>Juniperus ashei</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Savanna and Woodland	<i>Juniperus ashei</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Shrubland	<i>Juniperus ashei</i>	Tree- Evergreen	3.2	2.2
Apacherian-Chihuahuan Mesquite Upland Scrub	<i>Juniperus coahuilensis</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Juniperus coahuilensis</i>	Tree- Evergreen	3.2	2.2
Tamaulipan Mesquite Upland Scrub	<i>Juniperus coahuilensis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Juniperus communis</i>	Shrub- Evergreen	2.7	2.4
Great Lakes Alvar	<i>Juniperus communis</i>	Tree- Evergreen	3.2	2.2
Great Lakes Dune	<i>Juniperus communis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	<i>Juniperus communis</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Juniperus deppeana</i>	Tree- Evergreen	3.2	2.2
Great Lakes Dune	<i>Juniperus horizontalis</i>	Shrub	2.7	2.8
Great Lakes Wooded Dune and Swale	<i>Juniperus horizontalis</i>	Shrub	2.7	2.8
Northwestern Great Plains Shrubland	<i>Juniperus horizontalis</i>	Shrub	2.7	2.8
Apacherian-Chihuahuan Mesquite Upland Scrub	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Colorado Plateau Pinyon-Juniper Woodland	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Volcanic Rock and Cinder Land	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Madrean Juniper Savanna	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Pinyon-Juniper Woodland	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Southwestern Great Plains Canyon	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Tamaulipan Mesquite Upland Scrub	<i>Juniperus monosperma</i>	Tree- Evergreen	3.2	2.2
Columbia Plateau Western Juniper Woodland and Savanna	<i>Juniperus occidentalis</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Subalpine Woodland	<i>Juniperus occidentalis</i>	Tree- Evergreen	3.2	2.2
Colorado Plateau Pinyon-Juniper Shrubland	<i>Juniperus osteosperma</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Colorado Plateau Pinyon-Juniper Woodland	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Great Basin Pinyon-Juniper Woodland	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Cliff and Canyon	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Juniper Savanna	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Rocky Mountain Foothill Limber Pine-Juniper Woodland	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Sierra Nevada Cliff and Canyon	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Colorado Plateau Mixed Bedrock Canyon and Tableland	Juniperus osteosperma	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Shrubland	Juniperus pinchotii	Tree- Evergreen	3.2	2.2
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	Juniperus pinchotii	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	Juniperus pinchotii	Tree- Evergreen	3.2	2.2
Colorado Plateau Pinyon-Juniper Woodland	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Juniper Savanna	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Rocky Mountain Foothill Limber Pine-Juniper Woodland	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Juniper Woodland and Savanna	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Pinyon-Juniper Woodland	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Ponderosa Pine Woodland	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Great Plains Wooded Draw and Ravine	Juniperus scopulorum	Tree- Evergreen	3.2	2.2
Appalachian Shale Barrens	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Central Appalachian Alkaline Glade and Woodland	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Central Interior Highlands Calcareous Glade and Barrens	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Central Interior Highlands Dry Acidic Glade and Barrens	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Nashville Basin Limestone Glade and Woodland	Juniperus virginiana	Tree- Evergreen	3.2	2.2
North-Central Appalachian Acidic Cliff and Talus	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Northern Atlantic Coastal Plain Maritime Forest	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Blackland Prairie and Woodland	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southwestern Great Plains Canyon	Juniperus virginiana	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Weches Glade	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southern Ridge and Valley / Cumberland Dry Calcareous Forest	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Maritime Forest	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Maritime Forest	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Salt and Brackish Tidal Marsh	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Crosstimbers Oak Forest and Woodland	Juniperus virginiana	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Limestone Forest	Juniperus virginiana	Tree- Evergreen	3.2	2.2
Southern Interior Calcareous Cliff	Juniperus virginiana	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Southern Piedmont Glade and Barrens	<i>Juniperus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Large Floodplain Forest	<i>Justicia americana</i>	Forb	3	3.5
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	<i>Kalmia angustifolia</i>	Shrub- Evergreen	2.7	2.4
Boreal-Laurentian Bog	<i>Kalmia angustifolia</i>	Shrub- Evergreen	2.7	2.4
Central and Southern Appalachian Montane Oak Forest	<i>Kalmia latifolia</i>	Shrub- Evergreen	2.7	2.4
Central Appalachian Dry Oak-Pine Forest	<i>Kalmia latifolia</i>	Shrub- Evergreen	2.7	2.4
Southern Appalachian Grass and Shrub Bald	<i>Kalmia latifolia</i>	Shrub- Evergreen	2.7	2.4
Southern Appalachian Montane Pine Forest and Woodland	<i>Kalmia latifolia</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Alpine Dwarf-Shrubland	<i>Kalmia microphylla</i>	Shrub- Evergreen	2.7	2.4
Sierra Nevada Alpine Dwarf-Shrubland	<i>Kalmia microphylla</i>	Shrub- Evergreen	2.7	2.4
Boreal-Laurentian Bog	<i>Kalmia polifolia</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Subalpine-Montane Fen	<i>Kobresia myosuroides</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Turf	<i>Kobresia myosuroides</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Kobresia myosuroides</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Fen	<i>Kobresia simpliciuscula</i>	Graminoid C ₃	3.6	3.6
Tamaulipan Calcareous Thornscurb	<i>Koeleria spinosa</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Koeleria macrantha</i>	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	<i>Koeleria macrantha</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Koeleria macrantha</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Shrubland	<i>Koeleria macrantha</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Koeleria macrantha</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Sand Prairie	<i>Koeleria macrantha</i>	Graminoid C ₃	3.6	3.6
Sonora-Mojave Creosotebush-White Bursage Desert Scrub	<i>Krameria grayi</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Greasewood Flat	<i>Krascheninnikovia lanata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Krascheninnikovia lanata</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Semi-Desert Grassland	<i>Krascheninnikovia lanata</i>	Shrub- Deciduous	2.7	3
Sonora-Mojave Mixed Salt Desert Scrub	<i>Krascheninnikovia lanata</i>	Shrub- Deciduous	2.7	3
South Florida Mangrove Swamp	<i>Laguncularia racemosa</i>	Shrub- Evergreen	2.7	2.4
Boreal-Laurentian Bog	<i>Larix laricina</i>	Tree- Evergreen	3.2	2.2
Boreal-Laurentian Conifer Acidic Swamp and Treed Poor Fen	<i>Larix laricina</i>	Tree- Evergreen	3.2	2.2
Laurentian-Acadian Alkaline Conifer-Hardwood Swamp	<i>Larix laricina</i>	Tree- Evergreen	3.2	2.2
North-Central Interior and Appalachian Acidic Peatland	<i>Larix laricina</i>	Tree- Evergreen	3.2	2.2
North-Central Interior and Appalachian Rich Swamp	<i>Larix laricina</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Subalpine Woodland and Parkland	<i>Larix lyallii</i>	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	<i>Larix occidentalis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Western Larch Savanna	<i>Larix occidentalis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Wooded Vernal Pool	<i>Larix occidentalis</i>	Tree- Evergreen	3.2	2.2
Chihuahuan Creosotebush Desert Scrub	<i>Larrea tridentata</i>	Shrub	2.7	2.8
Chihuahuan Mixed Desert and Thornscurb	<i>Larrea tridentata</i>	Shrub	2.7	2.8

Community	Species	Classification	Resistance	Resilience
North American Warm Desert Bedrock Cliff and Outcrop	<i>Larrea tridentata</i>	Shrub	2.7	2.8
North American Warm Desert Volcanic Rockland	<i>Larrea tridentata</i>	Shrub	2.7	2.8
Sonora-Mojave Creosotebush-White Bursage Desert Scrub	<i>Larrea tridentata</i>	Shrub	2.7	2.8
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Larrea tridentata</i>	Shrub	2.7	2.8
Apacherian-Chihuahuan Mesquite Upland Scrub	<i>Larrea tridentata</i>	Shrub- Evergreen	2.7	2.4
Chihuahuan Mixed Salt Desert Scrub	<i>Larrea tridentata</i>	Shrub- Evergreen	2.7	2.4
Mojave Mid-Elevation Mixed Desert Scrub	<i>Larrea tridentata</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Active and Stabilized Dune	<i>Larrea tridentata</i>	Shrub- Evergreen	2.7	2.4
Sonoran Mid-Elevation Desert Scrub	<i>Larrea tridentata</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Mesquite Upland Scrub	<i>Larrea tridentata</i>	Shrub- Evergreen	2.7	2.4
Northern California Claypan Vernal Pool	<i>Lasthenia glaberrima</i>	Forb	3	3.5
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	<i>Ledum groenlandicum</i>	Shrub	2.7	2.8
Boreal-Laurentian Bog	<i>Ledum groenlandicum</i>	Shrub	2.7	2.8
North Pacific Bog and Fen	<i>Ledum groenlandicum</i>	Shrub- Evergreen	2.7	2.4
Texas-Louisiana Coastal Prairie Pondshore	<i>Leersia hexandra</i>	Graminoid C ₃	3.6	3.6
Madrean Encinal	<i>Leptochloa dubia</i>	Graminoid C ₄	3.6	4.1
Mediterranean California Alpine Fell-Field	<i>Leptodactylon pungens</i>	Forb	3	3.5
Sierra Nevada Alpine Dwarf-Shrubland	<i>Leptodactylon pungens</i>	Forb	3	3.5
Tamaulipan Calcareous Thornscrub	<i>Leucophyllum frutescens</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Lomas	<i>Leucophyllum frutescens</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Mixed Deciduous Thornscrub	<i>Leucophyllum frutescens</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Leucothoe axillaris</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Leucothoe axillaris</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Leymus ambiguus</i>	Graminoid C ₃	3.6	3.6
North Pacific Maritime Coastal Sand Dune and Strand	<i>Leymus arenarius</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Leymus cinereus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Leymus cinereus</i>	Graminoid C ₃	3.6	3.6
California Central Valley and Southern Coastal Grassland	<i>Leymus condensatus</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Leymus innovatus</i>	Graminoid C ₃	3.6	3.6
North Pacific Coastal Interdunal Wetland	<i>Leymus mollis</i>	Graminoid C ₃	3.6	3.6
North Pacific Maritime Coastal Sand Dune and Strand	<i>Leymus mollis</i>	Graminoid C ₃	3.6	3.6
North Pacific Maritime Coastal Sand Dune and Strand	<i>Leymus mollis</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Leymus salinus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Leymus salinus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Leymus salinus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Shale Badland	<i>Leymus salinus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Greasewood Flat	<i>Leymus triticoides</i>	Graminoid C ₃	3.6	3.6
Cumberland Acidic Cliff and Rockhouse	<i>Liatris microcephala</i>	Forb	3	3.5
Florida Longleaf Pine Sandhill	<i>Licania michauxii</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Temperate Pacific Freshwater Mudflat	<i>Lilaeopsis occidentalis</i>	Forb	3	3.5
Temperate Pacific Freshwater Mudflat	<i>Limosella aquatica</i>	Forb	3	3.5
Southern Piedmont Large Floodplain Forest	<i>Lindera benzoin</i>	Shrub- Deciduous	2.7	3
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Linnaea borealis</i>	Shrub	2.7	2.8
Northern Rocky Mountain Western Larch Savanna	<i>Linnaea borealis</i>	Shrub	2.7	2.8
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Large River Floodplain Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Bluff Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Mesic Hardwood Slope Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Small Stream and River Floodplain Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loess Bluff Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Basin Swamp and Wet Hardwood Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Riparian	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Piedmont Upland Depression Swamp	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
South-Central Interior Large Floodplain	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
South-Central Interior Small Stream and Riparian	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Mesic Hardwood Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Mesic Slope Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Nonriverine Cypress Dome	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Seepage Swamp and Baygall	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Southern Piedmont Small Floodplain and Riparian Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Large River Floodplain Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
Mississippi River Low Floodplain (Bottomland) Forest	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Liquidambar styraciflua</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Bluff Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Mesic Hardwood Slope Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
South-Central Interior Mesophytic Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Seepage Swamp and Baygall	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Southern Piedmont Small Floodplain and Riparian Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Liriodendron tulipifera</i>	Tree- Deciduous	3	4.2
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Lithocarpus densiflorus</i>	Shrub- Evergreen	2.7	2.4
Acadian-Appalachian Alpine Tundra	<i>Loiseleuria procumbens</i>	Shrub	2.7	2.8
North Pacific Coastal Cliff and Bluff	<i>Lomatium martindalei</i>	Forb	3	3.5
North Pacific Herbaceous Bald and Bluff	<i>Lomatium martindalei</i>	Forb	3	3.5
Southern California Coastal Scrub	<i>Lotus scoparius</i>	Shrub	2.7	2.8
Texas-Louisiana Coastal Prairie Pondshore	<i>Ludwigia glandulosa</i>	Forb	3	3.5
Texas-Louisiana Coastal Prairie Pondshore	<i>Ludwigia linearis</i>	Forb	3	3.5
Temperate Pacific Freshwater Mudflat	<i>Ludwigia palustris</i>	Forb	3	3.5
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Luetkea pectinata</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Mesic Subalpine Parkland	<i>Lupinus arcticus</i>	Forb	3	3.5
Mediterranean California Southern Coastal Dune	<i>Lupinus chamissonis</i>	Shrub	2.7	2.8
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Lycium andersonii</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Lycium andersonii</i>	Shrub- Deciduous	2.7	3
Sonora-Mojave Creosotebush-White Bursage Desert Scrub	<i>Lycium andersonii</i>	Shrub- Deciduous	2.7	3
Sonoran Mid-Elevation Desert Scrub	<i>Lycium andersonii</i>	Shrub- Deciduous	2.7	3
Central Mixedgrass Prairie	<i>Lygodesmia juncea</i>	Forb	3	3.5
Florida Peninsula Inland Scrub	<i>Lyonia ferruginea</i>	Shrub- Evergreen	2.7	2.4
Florida Dry Prairie	<i>Lyonia fruticosa</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Lyonia ligustrina</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Florida Dry Prairie	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Southern Coastal Plain Herbaceous Seep and Bog	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Southern Coastal Plain Nonriverine Cypress Dome	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Near-Coast Pine Flatwoods	<i>Lyonia lucida</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Lyonia mariana</i>	Shrub- Deciduous	2.7	3
North Pacific Shrub Swamp	<i>Lysichiton americanus</i>	Forb	3	3.5
West Gulf Coastal Plain Northern Calcareous Prairie	<i>Maclura pomifera</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
South-Central Interior Mesophytic Forest	<i>Magnolia acuminata</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Magnolia acuminata</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Magnolia fraseri</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loess Bluff Forest	<i>Magnolia grandiflora</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Mesic Slope Forest	<i>Magnolia grandiflora</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Mesic Hardwood Forest	<i>Magnolia grandiflora</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Blackwater Stream Floodplain Forest	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Maritime Forest	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
South Florida Bayhead Swamp	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Blackwater River Floodplain Forest	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Hydric Hammock	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Seepage Swamp and Baygall	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Seepage Swamp and Baygall	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Magnolia virginiana</i>	Tree- Evergreen	3.2	2.2
North American Warm Desert Volcanic Rockland	<i>Mahonia haematocarpa</i>	Shrub- Evergreen	2.7	2.4
Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	<i>Mahonia nervosa</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Mahonia nervosa</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Mahonia repens</i>	Shrub- Evergreen	2.7	2.4
Acadian Low-Elevation Spruce-Fir-Hardwood Forest	<i>Maianthemum canadense</i>	Forb	3	3.5
Laurentian-Acadian Pine-Hemlock-Hardwood Forest	<i>Maianthemum canadense</i>	Forb	3	3.5
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Maianthemum stellatum</i>	Forb	3	3.5
North Pacific Shrub Swamp	<i>Malus fusca</i>	Shrub- Deciduous	2.7	3
Eastern Boreal Floodplain	<i>Matteuccia struthiopteris</i>	Graminoid C ₃	3.6	3.6
Laurentian-Acadian Floodplain Forest	<i>Matteuccia struthiopteris</i>	Graminoid C ₃	3.6	3.6
Mojave Mid-Elevation Mixed Desert Scrub	<i>Menodora spinescens</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Menziesia ferruginea</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Menziesia ferruginea</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Menziesia ferruginea</i>	Shrub- Deciduous	2.7	3
South Florida Bayhead Swamp	<i>Metopium toxiferum</i>	Tree- Evergreen	3.2	2.2
South Florida Hardwood Hammock	<i>Metopium toxiferum</i>	Tree- Evergreen	3.2	2.2
Chihuahuan Mixed Desert and Thornscrub	<i>Mimosa warnockii</i>	Shrub- Deciduous	2.7	3
Mogollon Chaparral	<i>Mimosa warnockii</i>	Shrub- Deciduous	2.7	3
North Pacific Herbaceous Bald and Bluff	<i>Mimulus guttatus</i>	Forb	3	3.5
North Pacific Alpine and Subalpine Bedrock and Scree	<i>Minuartia arctica</i>	Forb	3	3.5

Community	Species	Classification	Resistance	Resilience
Mediterranean California Alpine Fell-Field	<i>Minuartia nuttallii</i>	Forb	3	3.5
South Texas Salt and Brackish Tidal Flat	<i>Monanthochloe littoralis</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Morella caroliniensis</i>	Shrub- Evergreen	2.7	2.4
Central Atlantic Coastal Plain Maritime Forest	<i>Morella cerifera</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Maritime Forest	<i>Morella cerifera</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Morella cerifera</i>	Shrub- Evergreen	2.7	2.4
West Gulf Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Morella cerifera</i>	Shrub- Evergreen	2.7	2.4
Northern Atlantic Coastal Plain Dune and Swale	<i>Morella pensylvanica</i>	Shrub- Evergreen	2.7	2.4
Southeastern Great Plains Floodplain Forest	<i>Morus rubra</i>	Tree- Deciduous	3	4.2
Chihuahuan Loamy Plains Desert Grassland	<i>Muhlenbergia arenacea</i>	Graminoid C ₄	3.6	4.1
Texas Saline Coastal Prairie	<i>Muhlenbergia capillaris</i>	Graminoid C ₄	3.6	4.1
South Florida Dwarf Cypress Savanna	<i>Muhlenbergia capillaris</i>	Graminoid C ₄	3.6	4.1
South Florida Pine Rockland	<i>Muhlenbergia capillaris</i>	Graminoid C ₄	3.6	4.1
South Florida Wet Marl Prairie	<i>Muhlenbergia capillaris</i>	Graminoid C ₄	3.6	4.1
Madrean Oriental Chaparral	<i>Muhlenbergia emersleyi</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Muhlenbergia filiculmis</i>	Graminoid C ₄	3.6	4.1
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Muhlenbergia filiformis</i>	Graminoid C ₄	3.6	4.1
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Muhlenbergia montana</i>	Graminoid C ₄	3.6	4.1
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Muhlenbergia montana</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Foothill and Piedmont Grassland	<i>Muhlenbergia montana</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Mixed Desert and Thornscrub	<i>Muhlenbergia porteri</i>	Graminoid C ₄	3.6	4.1
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Muhlenbergia richardsonis</i>	Graminoid C ₄	3.6	4.1
Columbia Plateau Vernal Pool	<i>Muhlenbergia richardsonis</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Muhlenbergia richardsonis</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Muhlenbergia setifolia</i>	Graminoid C ₄	3.6	4.1
North Pacific Bog and Fen	<i>Myrica gale</i>	Shrub- Evergreen	2.7	2.4
North Pacific Montane Grassland	<i>Nassella cernua</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Foothill and Piedmont Grassland	<i>Nassella viridula</i>	Graminoid C ₃	3.6	3.6
Chihuahuan Succulent Desert Scrub	<i>Nolina microcarpa</i>	Forb	3	3.5
Madrean Oriental Chaparral	<i>Nolina microcarpa</i>	Forb	3	3.5
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Freshwater Tidal Wooded Swamp	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Large River Floodplain Forest	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
Mississippi River Bottomland Depression	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
Red River Large Floodplain Forest	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Southern Atlantic Coastal Plain Tidal Wooded Swamp	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Blackwater River Floodplain Forest	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Large River Floodplain Forest	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Near-Coast Large River Swamp	<i>Nyssa aquatica</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Blackwater Stream Floodplain Forest	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Central Atlantic Coastal Plain Maritime Forest	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Freshwater Tidal Wooded Swamp	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Red River Large Floodplain Forest	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Blackwater River Floodplain Forest	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Nonriverine Basin Swamp	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Nonriverine Cypress Dome	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Seepage Swamp and Baygall	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Seepage Swamp and Baygall	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Nyssa biflora</i>	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	<i>Nyssa sylvatica</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Basin Swamp and Wet Hardwood Forest	<i>Nyssa sylvatica</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Flatwoods	<i>Nyssa sylvatica</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Nyssa sylvatica</i>	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	<i>Nyssa sylvatica</i>	Tree- Deciduous	3	4.2
North American Warm Desert Wash	<i>Olneya tesota</i>	Tree- Evergreen	3.2	2.2
Laurentian-Acadian Floodplain Forest	<i>Onoclea sensibilis</i>	Graminoid C ₃	3.6	3.6
North Pacific Montane Riparian Woodland and Shrubland	<i>Oplopanax horridus</i>	Shrub- Deciduous	2.7	3
Mojave Mid-Elevation Mixed Desert Scrub	<i>Opuntia acanthocarpa</i>	Forb	3	3.5
North American Warm Desert Bedrock Cliff and Outcrop	<i>Opuntia bigelovii</i>	Forb	3	3.5
North American Warm Desert Volcanic Rockland	<i>Opuntia bigelovii</i>	Forb	3	3.5
Chihuahuan Succulent Desert Scrub	<i>Opuntia engelmannii</i>	Forb	3	3.5
Tamaulipan Mixed Deciduous Thornscurb	<i>Opuntia engelmannii</i>	Forb	3	3.5
Chihuahuan Creosotebush Desert Scrub	<i>Opuntia imbricata</i>	Forb	3	3.5
Chihuahuan Creosotebush Desert Scrub	<i>Opuntia kleiniae</i>	Forb	3	3.5
Southern California Coastal Scrub	<i>Opuntia littoralis</i>	Forb	3	3.5
Columbia Basin Foothill and Canyon Dry Grassland	<i>Opuntia polyacantha</i>	Forb	3	3.5

Community	Species	Classification	Resistance	Resilience
North American Warm Desert Bedrock Cliff and Outcrop	<i>Opuntia schottii</i>	Forb	3	3.5
Chihuahuan Succulent Desert Scrub	<i>Opuntia spinosior</i>	Forb	3	3.5
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Oryzopsis asperifolia</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Beech-Maple Forest	<i>Osmorhiza claytonii</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Osmunda regalis</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Maple-Basswood Forest	<i>Ostrya virginiana</i>	Tree- Deciduous	3	4.2
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Oxydendrum arboreum</i>	Tree- Deciduous	3	4.2
Central and Southern Appalachian Montane Oak Forest	<i>Oxydendrum arboreum</i>	Tree- Deciduous	3	4.2
Southern Appalachian Low-Elevation Pine Forest	<i>Oxydendrum arboreum</i>	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	<i>Oxydendrum arboreum</i>	Tree- Deciduous	3	4.2
Mediterranean California Alpine Bedrock and Scree	<i>Oxytropis borealis</i>	Forb	3	3.5
Mediterranean California Alpine Bedrock and Scree	<i>Oxytropis parryi</i>	Forb	3	3.5
Central Florida Herbaceous Pondshore	<i>Panicum abscissum</i>	Graminoid C ₃	3.6	3.6
Central Florida Wet Prairie and Herbaceous Seep	<i>Panicum abscissum</i>	Graminoid C ₃	3.6	3.6
Texas Coast Dune and Coastal Grassland	<i>Panicum amarum</i>	Graminoid C ₄	3.6	4.1
South Texas Dune and Coastal Grassland	<i>Panicum amarum</i>	Graminoid C ₄	3.6	4.1
Southwest Florida Dune and Coastal Grassland	<i>Panicum amarum</i>	Graminoid C ₄	3.6	4.1
Eastern Highland Rim Prairie and Barrens	<i>Panicum anceps</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Clay-Based Carolina Bay Wetland	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
Central Florida Herbaceous Pondshore	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
Floridian Highlands Freshwater Marsh	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
Gulf Coast Chenier Plain Fresh and Oligohaline Tidal Marsh	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
Southeastern Coastal Plain Natural Lakeshore	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Nonriverine Basin Swamp	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
West Gulf Coastal Plain Flatwoods Pond	<i>Panicum hemitomon</i>	Graminoid C ₃	3.6	3.6
Chihuahuan Mixed Salt Desert Scrub	<i>Panicum obtusum</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Riparian	<i>Panicum obtusum</i>	Graminoid C ₄	3.6	4.1
Eastern Highland Rim Prairie and Barrens	<i>Panicum rigidulum</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Depression Pond	<i>Panicum verrucosum</i>	Graminoid C ₃	3.6	3.6
Eastern Highland Rim Prairie and Barrens	<i>Panicum verrucosum</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Depression Pond	<i>Panicum verrucosum</i>	Graminoid C ₃	3.6	3.6
Arkansas Valley Prairie and Woodland	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Central and South Texas Coastal Fringe Forest and Woodland	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Central Appalachian Stream and Riparian	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Northern Tallgrass Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Southeastern Great Plains Tallgrass Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Depression Pond	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Texas Blackland Tallgrass Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Texas-Louisiana Coastal Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Flatwoods Pond	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Floodplain	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Riparian	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Tallgrass Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Central Tallgrass Prairie	<i>Panicum virgatum</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Floodplain	<i>Parkinsonia aculeata</i>	Shrub- Evergreen	2.7	2.4
North American Warm Desert Wash	<i>Parkinsonia florida</i>	Tree- Deciduous	3	4.2
Sonoran Paloverde-Mixed Cacti Desert Scrub	<i>Parkinsonia microphylla</i>	Shrub- Deciduous	2.7	3
Tamaulipan Mixed Deciduous Thornscurb	<i>Parkinsonia texana</i>	Shrub- Deciduous	2.7	3
Tamaulipan Calcareous Thornscurb	<i>Parkinsonia texana</i>	Shrub- Deciduous	2.7	3
Chihuahuan Creosotebush Desert Scrub	<i>Parthenium incanum</i>	Forb	3	3.5
Southern Appalachian Montane Cliff and Talus	<i>Parthenocissus quinquefolia</i>	Shrub	2.7	2.8
Central Mixedgrass Prairie	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Big Sagebrush Steppe	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Greasewood Flat	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Floodplain	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Mixedgrass Prairie	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Riparian	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Closed Depression Wetland	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Foothill and Piedmont Grassland	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Riparian	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	<i>Pascopyrum smithii</i>	Graminoid C ₃	3.6	3.6
Texas Coast Dune and Coastal Grassland	<i>Paspalum monostachyum</i>	Graminoid C ₄	3.6	4.1
South Texas Dune and Coastal Grassland	<i>Paspalum monostachyum</i>	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie	<i>Paspalum plicatulum</i>	Graminoid C ₄	3.6	4.1
South Texas Sand Sheet Grassland	<i>Paspalum plicatulum</i>	Graminoid C ₄	3.6	4.1
Florida Dry Prairie	<i>Paspalum setaceum</i>	Graminoid C ₄	3.6	4.1
Gulf Coast Chenier Plain Fresh and Oligohaline Tidal Marsh	<i>Paspalum vaginatum</i>	Graminoid C ₄	3.6	4.1
Southeastern Coastal Plain Interdunal Wetland	<i>Paspalum vaginatum</i>	Graminoid C ₄	3.6	4.1
Texas Coast Fresh and Oligohaline Tidal Marsh	<i>Paspalum vaginatum</i>	Graminoid C ₄	3.6	4.1
Southern Coastal Plain Nonriverine Basin Swamp	<i>Peltandra virginica</i>	Forb	3	3.5
Tamaulipan Calcareous Thornscurb	<i>Pennisetum ciliare</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Floodplain	<i>Pennisetum ciliare</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Ramadero	<i>Pennisetum ciliare</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Savanna Grassland	<i>Pennisetum ciliare</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Cliff	<i>Penstemon baccharifolius</i>	Forb	3	3.5
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Persea palustris</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Central Atlantic Coastal Plain Maritime Forest	<i>Persea palustris</i>	Shrub- Evergreen	2.7	2.4
South Florida Bayhead Swamp	<i>Persea palustris</i>	Shrub- Evergreen	2.7	2.4
South Florida Cypress Dome	<i>Persea palustris</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Persea palustris</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Alpine-Montane Wet Meadow	<i>Phippsia algida</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Subalpine-Upper Montane Grassland	<i>Phleum alpinum</i>	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	<i>Phlox diffusa</i>	Forb	3	3.5
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Phlox hoodii</i>	Forb	3	3.5
Rocky Mountain Alpine Fell-Field	<i>Phlox pulvinata</i>	Forb	3	3.5
Rocky Mountain Alpine Turf	<i>Phlox pulvinata</i>	Forb	3	3.5
North-Central Interior Freshwater Marsh	<i>Phragmites australis</i>	Graminoid C ₃	3.6	3.6
Acadian-Appalachian Alpine Tundra	<i>Phyllodoce caerulea</i>	Shrub	2.7	2.8
Rocky Mountain Alpine Dwarf-Shrubland	<i>Phyllodoce empetriformis</i>	Shrub	2.7	2.8
North Pacific Maritime Mesic Subalpine Parkland	<i>Phyllodoce empetriformis</i>	Shrub- Evergreen	2.7	2.4
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Phyllodoce empetriformis</i>	Shrub- Evergreen	2.7	2.4
Middle Rocky Mountain Montane Douglas-fir Forest and Woodland	<i>Physocarpus malvaceus</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Physocarpus malvaceus</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	<i>Physocarpus malvaceus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Conifer Swamp	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Wooded Vernal Pool	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine-Montane Riparian Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Picea engelmannii</i>	Tree- Evergreen	3.2	2.2
Acadian-Appalachian Montane Spruce-Fir Forest	<i>Picea glauca</i>	Tree- Evergreen	3.2	2.2
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	<i>Picea glauca</i>	Tree- Evergreen	3.2	2.2
Eastern Boreal Floodplain	<i>Picea glauca</i>	Tree- Evergreen	3.2	2.2
Boreal White Spruce-Fir-Hardwood Forest	<i>Picea glauca</i>	Tree- Evergreen	3.2	2.2
Eastern Hemi-Boreal Mesic Balsam Fir-Spruce Forest	<i>Picea glauca</i>	Tree- Evergreen	3.2	2.2
Acadian-Appalachian Montane Spruce-Fir Forest	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2
Boreal-Laurentian Bog	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Boreal-Laurentian Conifer Acidic Swamp and Treed Poor Fen	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2
Eastern Boreal Floodplain	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2
North-Central Interior and Appalachian Acidic Peatland	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2
Eastern Hemi-Boreal Dry-Mesic Pine-Black Spruce-Hardwood Forest	<i>Picea mariana</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Picea pungens</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Picea pungens</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	<i>Picea pungens</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	<i>Picea pungens</i>	Tree- Evergreen	3.2	2.2
Acadian Low-Elevation Spruce-Fir-Hardwood Forest	<i>Picea rubens</i>	Tree- Evergreen	3.2	2.2
Acadian-Appalachian Montane Spruce-Fir Forest	<i>Picea rubens</i>	Tree- Evergreen	3.2	2.2
Central and Southern Appalachian Spruce-Fir Forest	<i>Picea rubens</i>	Tree- Evergreen	3.2	2.2
Eastern Boreal Floodplain	<i>Picea rubens</i>	Tree- Evergreen	3.2	2.2
High Allegheny Wetland	<i>Picea rubens</i>	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	<i>Picea sitchensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Intertidal Freshwater Wetland	<i>Picea sitchensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Picea sitchensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Lowland Riparian Forest and Shrubland	<i>Picea sitchensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Coastal Sand Dune and Strand	<i>Picea sitchensis</i>	Tree- Evergreen	3.2	2.2
North Pacific Seasonal Sitka Spruce Forest	<i>Picea sitchensis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Picrothamnus desertorum</i>	Shrub	2.7	2.8
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Picrothamnus desertorum</i>	Shrub- Deciduous	2.7	3
Mediterranean California Subalpine Woodland	<i>Pinus albicaulis</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Subalpine Woodland and Parkland	<i>Pinus albicaulis</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Pinus aristata</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Pinus attenuata</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral	<i>Pinus attenuata</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Subalpine Woodland	<i>Pinus balfouriana</i>	Tree- Evergreen	3.2	2.2
Great Lakes Wooded Dune and Swale	<i>Pinus banksiana</i>	Tree- Evergreen	3.2	2.2
Laurentian Jack Pine-Red Pine Forest	<i>Pinus banksiana</i>	Tree- Evergreen	3.2	2.2
Laurentian Pine-Oak Barrens	<i>Pinus banksiana</i>	Tree- Evergreen	3.2	2.2
Eastern Hemi-Boreal Dry-Mesic Pine-Black Spruce-Hardwood Forest	<i>Pinus banksiana</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Pinus cembroides</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Maritime Forest	<i>Pinus clausa</i>	Tree- Evergreen	3.2	2.2
Florida Peninsula Inland Scrub	<i>Pinus clausa</i>	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	<i>Pinus contorta</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	Pinus contorta	Tree- Evergreen	3.2	2.2
North Pacific Wooded Volcanic Flowage	Pinus contorta	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Conifer Swamp	Pinus contorta	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Pinus contorta	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Wooded Vernal Pool	Pinus contorta	Tree- Evergreen	3.2	2.2
Rocky Mountain Lodgepole Pine Forest	Pinus contorta	Tree- Evergreen	3.2	2.2
Rocky Mountain Poor-Site Lodgepole Pine Forest	Pinus contorta	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
California Coastal Closed-Cone Conifer Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
California Coastal Closed-Cone Conifer Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	Pinus contorta	Tree- Evergreen	3.2	2.2
North Pacific Maritime Coastal Sand Dune and Strand	Pinus contorta	Tree- Evergreen	3.2	2.2
Central California Coast Ranges Cliff and Canyon	Pinus contorta	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	Pinus contorta	Tree- Evergreen	3.2	2.2
Mediterranean California Subalpine Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
North Pacific Montane Riparian Woodland and Shrubland	Pinus contorta	Tree- Evergreen	3.2	2.2
Sierra Nevada Cliff and Canyon	Pinus contorta	Tree- Evergreen	3.2	2.2
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	Pinus contorta	Tree- Evergreen	3.2	2.2
California Coastal Closed-Cone Conifer Forest and Woodland	Pinus coulteri	Tree- Evergreen	3.2	2.2
Central and Southern California Mixed Evergreen Woodland	Pinus coulteri	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Serpentine Woodland and Chaparral	Pinus coulteri	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	Pinus discolor	Tree- Evergreen	3.2	2.2
Central Appalachian Dry Oak-Pine Forest	Pinus echinata	Tree- Evergreen	3.2	2.2
Central Appalachian Pine-Oak Rocky Woodland	Pinus echinata	Tree- Evergreen	3.2	2.2
Crowley's Ridge Sand Forest	Pinus echinata	Tree- Evergreen	3.2	2.2
Cumberland Sandstone Glade and Barrens	Pinus echinata	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest	Pinus echinata	Tree- Evergreen	3.2	2.2
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	Pinus echinata	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Ozark-Ouachita Shortleaf Pine-Oak Forest and Woodland	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
Southeastern Interior Longleaf Pine Woodland	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Low-Elevation Pine Forest	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Pine-Hardwood Forest	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Sandhill Oak and Shortleaf Pine Forest and Woodland	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Stream Terrace Sandyland Longleaf Pine Woodland	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Pinus echinata</i>	Tree- Evergreen	3.2	2.2
Colorado Plateau Pinyon-Juniper Shrubland	<i>Pinus edulis</i>	Tree- Evergreen	3.2	2.2
Colorado Plateau Pinyon-Juniper Woodland	<i>Pinus edulis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Cliff and Canyon	<i>Pinus edulis</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Pinus edulis</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Pinyon-Juniper Woodland	<i>Pinus edulis</i>	Tree- Evergreen	3.2	2.2
Colorado Plateau Mixed Bedrock Canyon and Tableland	<i>Pinus edulis</i>	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
Central Florida Pine Flatwoods	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Near-Coast Pine Flatwoods	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
South Florida Pine Flatwoods	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
South Florida Pine Rockland	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Maritime Forest	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Maritime Forest	<i>Pinus elliotii</i>	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Pinus engelmannii</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Cliff and Canyon	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Volcanic Rock and Cinder Land	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Subalpine Woodland	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	<i>Pinus flexilis</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Pinus glabra</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Southern Loess Bluff Forest	<i>Pinus glabra</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Klamath-Siskiyou Upper Montane Serpentine Mixed Conifer Woodland	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Serpentine Woodland and Chaparral	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
Sierra Nevada Cliff and Canyon	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
California Montane Jeffrey Pine-(Ponderosa Pine) Woodland	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Upper Montane Serpentine Mixed Conifer Woodland	<i>Pinus jeffreyi</i>	Tree- Evergreen	3.2	2.2
California Montane Woodland and Chaparral	<i>Pinus lambertiana</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Pinus lambertiana</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Mixed Conifer Forest and Woodland	<i>Pinus lambertiana</i>	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Pinus leiophylla</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	<i>Pinus longaeva</i>	Tree- Evergreen	3.2	2.2
Great Basin Pinyon-Juniper Woodland	<i>Pinus monophylla</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Cliff and Canyon	<i>Pinus monophylla</i>	Tree- Evergreen	3.2	2.2
Sierra Nevada Cliff and Canyon	<i>Pinus monophylla</i>	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Upper Montane Serpentine Mixed Conifer Woodland	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Subalpine Woodland	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
North Pacific Serpentine Barren	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
North Pacific Wooded Volcanic Flowage	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
Sierran-Intermontane Desert Western White Pine-White Fir Woodland	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Upper Montane Serpentine Mixed Conifer Woodland	<i>Pinus monticola</i>	Tree- Evergreen	3.2	2.2
California Coastal Closed-Cone Conifer Forest and Woodland	<i>Pinus muricata</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Upland Longleaf Pine Woodland	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Central Florida Pine Flatwoods	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Maritime Forest	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Florida Longleaf Pine Sandhill	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Southeastern Interior Longleaf Pine Woodland	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Maritime Forest	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	<i>Pinus palustris</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Southern Coastal Plain Oak Dome and Hammock	Pinus palustris	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Catahoula Barrens	Pinus palustris	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Stream Terrace Sandyland Longleaf Pine Woodland	Pinus palustris	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Upland Longleaf Pine Forest and Woodland	Pinus palustris	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	Pinus palustris	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	Pinus palustris	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Near-Coast Pine Flatwoods	Pinus palustris	Tree- Evergreen	3.2	2.2
East Cascades Oak-Ponderosa Pine Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Cliff and Canyon	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Volcanic Rock and Cinder Land	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
North Pacific Oak Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
North Pacific Serpentine Barren	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Foothill Conifer Wooded Steppe	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Sierra Nevada Cliff and Canyon	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Sierran-Intermontane Desert Western White Pine-White Fir Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Ponderosa Pine Savanna	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Ponderosa Pine Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
California Montane Jeffrey Pine-(Ponderosa Pine) Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Colorado Plateau Mixed Bedrock Canyon and Tableland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Foothill Conifer Wooded Steppe	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	Pinus ponderosa	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Ponderosa Pine Savanna	Pinus ponderosa	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Pinus ponderosa</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Foothill Conifer Wooded Steppe	<i>Pinus ponderosa</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Ponderosa Pine Savanna	<i>Pinus ponderosa</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Pinus ponderosa</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Montane Pine Forest and Woodland	<i>Pinus pungens</i>	Tree- Evergreen	3.2	2.2
California Coastal Closed-Cone Conifer Forest and Woodland	<i>Pinus radiata</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Savanna and Woodland	<i>Pinus remota</i>	Tree- Evergreen	3.2	2.2
Great Lakes Wooded Dune and Swale	<i>Pinus resinosa</i>	Tree- Evergreen	3.2	2.2
Laurentian Jack Pine-Red Pine Forest	<i>Pinus resinosa</i>	Tree- Evergreen	3.2	2.2
Laurentian Pine-Oak Barrens	<i>Pinus resinosa</i>	Tree- Evergreen	3.2	2.2
Laurentian-Acadian Northern Pine-(Oak) Forest	<i>Pinus resinosa</i>	Tree- Evergreen	3.2	2.2
Central Appalachian Dry Oak-Pine Forest	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Central Appalachian Pine-Oak Rocky Woodland	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Eastern Serpentine Woodland	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Northeastern Interior Pine Barrens	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Northern Atlantic Coastal Plain Pitch Pine Barrens	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Northern Atlantic Coastal Plain Pitch Pine Lowland	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Low-Elevation Pine Forest	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Montane Pine Forest and Woodland	<i>Pinus rigida</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Pinus sabiniana</i>	Tree- Evergreen	3.2	2.2
North Pacific Oak Woodland	<i>Pinus sabiniana</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Pinus serotina</i>	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Pinus serotina</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Maritime Forest	<i>Pinus serotina</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	<i>Pinus serotina</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Pinus serotina</i>	Tree- Evergreen	3.2	2.2
Central Appalachian Dry Oak-Pine Forest	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Central Appalachian Pine-Oak Rocky Woodland	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Great Lakes Wooded Dune and Swale	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Laurentian Pine-Oak Barrens	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Laurentian-Acadian Pine-Hemlock-Hardwood Forest	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Montane Pine Forest and Woodland	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Laurentian-Acadian Northern Pine-(Oak) Forest	<i>Pinus strobus</i>	Tree- Evergreen	3.2	2.2
Bastrop Lost Pines Forest and Woodland	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Maritime Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Southern Loess Bluff Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Northern Atlantic Coastal Plain Maritime Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Southeastern Interior Longleaf Pine Woodland	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Large Floodplain Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Mesic Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Small Floodplain and Riparian Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Pine-Hardwood Flatwoods	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Pine-Hardwood Forest	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Upland Longleaf Pine Forest and Woodland	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Pinus taeda</i>	Tree- Evergreen	3.2	2.2
California Coastal Closed-Cone Conifer Forest and Woodland	<i>Pinus torreyana</i>	Tree- Evergreen	3.2	2.2
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Appalachian Shale Barrens	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Central Appalachian Dry Oak-Pine Forest	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Central Appalachian Pine-Oak Rocky Woodland	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Cumberland Sandstone Glade and Barrens	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Eastern Serpentine Woodland	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Low-Elevation Pine Forest	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Appalachian Montane Pine Forest and Woodland	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Glade and Barrens	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Granite Flatrock and Outcrop	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Large Floodplain Forest	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Piedmont Small Floodplain and Riparian Forest	<i>Pinus virginiana</i>	Tree- Evergreen	3.2	2.2
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Piptatherum micranthum</i>	Graminoid C ₃	3.6	3.6
Southeastern Interior Longleaf Pine Woodland	<i>Piptochaetium avenaceum</i>	Graminoid C ₃	3.6	3.6
West Gulf Coastal Plain Nepheline Syenite Glade	<i>Piptochaetium avenaceum</i>	Graminoid C ₃	3.6	3.6
Southwest Florida Coastal Strand and Maritime Hammock	<i>Piscidia piscipula</i>	Shrub- Deciduous	2.7	3
South Florida Hardwood Hammock	<i>Piscidia piscipula</i>	Tree- Deciduous	3	4.2
South Florida Hardwood Hammock	<i>Pithecellobium keyense</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Planera aquatica</i>	Tree- Deciduous	3	4.2
Mediterranean California Coastal Bluff	<i>Plantago maritima</i>	Forb	3	3.5
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Central Appalachian River Floodplain	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Central Appalachian Stream and Riparian	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Edwards Plateau Floodplain Terrace	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Edwards Plateau Riparian	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Riparian	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
South-Central Interior Large Floodplain	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
South-Central Interior Small Stream and Riparian	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Mississippi River Floodplain and Riparian Forest	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
Mississippi River Riparian Forest	<i>Platanus occidentalis</i>	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Woodland and Shrubland	<i>Platanus racemosa</i>	Tree- Deciduous	3	4.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Platanus racemosa</i>	Tree- Deciduous	3	4.2
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Platanus wrightii</i>	Tree- Deciduous	3	4.2
North Pacific Herbaceous Bald and Bluff	<i>Plectritis congesta</i>	Forb	3	3.5
Southern Coastal Plain Herbaceous Seep and Bog	<i>Pleea tenuifolia</i>	Forb	3	3.5
Chihuahuan Sandy Plains Semi-Desert Grassland	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Juniper Savanna	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Grassland	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Madrean Encinal	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Southern Colorado Plateau Sand Shrubland	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Pleuraphis jamesii</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Mesquite Upland Scrub	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Creosotebush Desert Scrub	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Loamy Plains Desert Grassland	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Mixed Salt Desert Scrub	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Upland Depression	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Madrean Juniper Savanna	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Mesquite Woodland and Shrubland	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Mesquite Upland Scrub	<i>Pleuraphis mutica</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Pleuraphis rigida</i>	Graminoid C ₄	3.6	4.1
North American Warm Desert Riparian Mesquite Bosque	<i>Pluchea sericea</i>	Shrub- Deciduous	2.7	3
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Poa cusickii</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Poa eminens</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Poa fendleriana</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Poa fendleriana</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Poa fendleriana</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Ponderosa Pine Savanna	<i>Poa fendleriana</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Poa fendleriana</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Palouse Prairie	<i>Poa pratensis</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Aspen Forest and Woodland	<i>Poa pratensis</i>	Graminoid C ₃	3.6	3.6
California Mesic Serpentine Grassland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Colorado Plateau Mixed Low Sagebrush Shrubland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Scabland Shrubland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Steppe and Grassland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Grassland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Fell-Field	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Poa secunda</i>	Graminoid C ₃	3.6	3.6
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	<i>Poa wheeleri</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Alpine Bedrock and Scree	<i>Polemonium viscosum</i>	Forb	3	3.5
North American Warm Desert Bedrock Cliff and Outcrop	<i>Poliomintha incana</i>	Shrub- Deciduous	2.7	3
North Pacific Maritime Mesic Subalpine Parkland	<i>Polygonum bistortoides</i>	Forb	3	3.5
Sierra Nevada Alpine Dwarf-Shrubland	<i>Polygonum shastense</i>	Forb	3	3.5
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Polystichum munitum</i>	Graminoid C ₃	3.6	3.6
Floridian Highlands Freshwater Marsh	<i>Pontederia cordata</i>	Forb	3	3.5
Laurentian-Acadian Freshwater Marsh	<i>Pontederia cordata</i>	Forb	3	3.5
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Populus angustifolia</i>	Tree- Deciduous	3	4.2
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Populus angustifolia</i>	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Populus angustifolia</i>	Tree- Deciduous	3	4.2
Eastern Boreal Floodplain	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2
Great Lakes Wooded Dune and Swale	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2
North Pacific Hardwood-Conifer Swamp	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2
North Pacific Lowland Riparian Forest and Shrubland	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2
North Pacific Montane Riparian Woodland and Shrubland	<i>Populus balsamifera</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Northern Rocky Mountain Avalanche Chute Shrubland	Populus balsamifera	Tree- Deciduous	3	4.2
Northern Rocky Mountain Wooded Vernal Pool	Populus balsamifera	Tree- Deciduous	3	4.2
Northwestern Great Plains Floodplain	Populus balsamifera	Tree- Deciduous	3	4.2
Northwestern Great Plains Riparian	Populus balsamifera	Tree- Deciduous	3	4.2
North-Central Interior Floodplain	Populus deltoides	Tree- Deciduous	3	4.2
Northwestern Great Plains Floodplain	Populus deltoides	Tree- Deciduous	3	4.2
Northwestern Great Plains Riparian	Populus deltoides	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	Populus deltoides	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Large River Floodplain Forest	Populus deltoides	Tree- Deciduous	3	4.2
Western Great Plains Floodplain	Populus deltoides	Tree- Deciduous	3	4.2
Western Great Plains Riparian	Populus deltoides	Tree- Deciduous	3	4.2
Mississippi River Floodplain and Riparian Forest	Populus deltoides	Tree- Deciduous	3	4.2
Mississippi River Riparian Forest	Populus deltoides	Tree- Deciduous	3	4.2
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	Populus deltoides	Tree- Deciduous	3	4.2
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	Populus fremontii	Tree- Deciduous	3	4.2
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	Populus fremontii	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Woodland and Shrubland	Populus fremontii	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	Populus fremontii	Tree- Deciduous	3	4.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	Populus fremontii	Tree- Deciduous	3	4.2
Eastern Great Plains Tallgrass Aspen Parkland	Populus tremuloides	Tree- Deciduous	3	4.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Hardwood Forest	Populus tremuloides	Tree- Deciduous	3	4.2
North Pacific Montane Riparian Woodland and Shrubland	Populus tremuloides	Tree- Deciduous	3	4.2
Northern Rocky Mountain Avalanche Chute Shrubland	Populus tremuloides	Tree- Deciduous	3	4.2
Northern Rocky Mountain Wooded Vernal Pool	Populus tremuloides	Tree- Deciduous	3	4.2
Northwestern Great Plains Aspen Forest and Parkland	Populus tremuloides	Tree- Deciduous	3	4.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	Populus tremuloides	Tree- Deciduous	3	4.2
Rocky Mountain Aspen Forest and Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Rocky Mountain Bigtooth Maple Ravine Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Rocky Mountain Subalpine-Montane Riparian Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Sierra Nevada Cliff and Canyon	Populus tremuloides	Tree- Deciduous	3	4.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	Populus tremuloides	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Southern Rocky Mountain Ponderosa Pine Woodland	Populus tremuloides	Tree- Deciduous	3	4.2
Boreal White Spruce-Fir-Hardwood Forest	Populus tremuloides	Tree- Deciduous	3	4.2
Eastern Hemi-Boreal Aspen-Birch Forest	Populus tremuloides	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Pine-(Oak) Forest	Populus tremuloides	Tree- Deciduous	3	4.2
Eastern Hemi-Boreal Dry-Mesic Pine-Black Spruce-Hardwood Forest	Populus tremuloides	Tree- Deciduous	3	4.2
Eastern Highland Rim Prairie and Barrens	Potentilla simplex	Forb	3	3.5
Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	Prosopis glandulosa	Shrub- Deciduous	2.7	3
Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	Prosopis glandulosa	Shrub- Deciduous	2.7	3
North American Warm Desert Active and Stabilized Dune	Prosopis glandulosa	Shrub- Deciduous	2.7	3
Tamaulipan Mixed Deciduous Thornscrub	Prosopis glandulosa	Shrub- Deciduous	2.7	3
Tamaulipan Ramadero	Prosopis glandulosa	Shrub- Deciduous	2.7	3
Apacherian-Chihuahuan Mesquite Upland Scrub	Prosopis glandulosa	Tree- Deciduous	3	4.2
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	Prosopis glandulosa	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Mesquite Bosque	Prosopis glandulosa	Tree- Deciduous	3	4.2
North American Warm Desert Wash	Prosopis glandulosa	Tree- Deciduous	3	4.2
Western Great Plains Mesquite Woodland and Shrubland	Prosopis glandulosa	Tree- Deciduous	3	4.2
Llano Uplift Acidic Forest, Woodland and Glade	Prosopis glandulosa	Tree- Deciduous	3	4.2
Tamaulipan Mesquite Upland Scrub	Prosopis glandulosa	Tree- Deciduous	3	4.2
Central and South Texas Coastal Fringe Forest and Woodland	Prosopis glandulosa	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Mesquite Bosque	Prosopis glandulosa	Tree- Deciduous	3	4.2
Tamaulipan Savanna Grassland	Prosopis glandulosa	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Mesquite Bosque	Prosopis glandulosa	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Mesquite Bosque	Prosopis pubescens	Tree- Deciduous	3	4.2
Sonoran Paloverde-Mixed Cacti Desert Scrub	Prosopis velutina	Shrub- Deciduous	2.7	3
Apacherian-Chihuahuan Mesquite Upland Scrub	Prosopis velutina	Tree- Deciduous	3	4.2
North American Warm Desert Riparian Mesquite Bosque	Prosopis velutina	Tree- Deciduous	3	4.2
Tamaulipan Mesquite Upland Scrub	Prosopis velutina	Tree- Deciduous	3	4.2
California Montane Woodland and Chaparral	Prunus emarginata	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	Prunus emarginata	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	Prunus fasciculata	Shrub- Deciduous	2.7	3
California Mesic Chaparral	Prunus ilicifolia	Shrub- Evergreen	2.7	2.4
Southern Appalachian Rocky Summit	Prunus pensylvanica	Shrub- Deciduous	2.7	3
Great Lakes Dune	Prunus pumila	Shrub- Deciduous	2.7	3
Laurentian-Acadian Northern Hardwood Forest	Prunus serotina	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	Prunus serotina	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	Prunus serotina	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	Prunus serotina	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Edwards Plateau Mesic Canyon	<i>Prunus serotina</i>	Tree- Deciduous	3	4.2
California Montane Woodland and Chaparral	<i>Prunus subcordata</i>	Shrub- Deciduous	2.7	3
California Montane Woodland and Chaparral	<i>Prunus virginiana</i>	Shrub- Deciduous	2.7	3
Columbia Basin Foothill Riparian Woodland and Shrubland	<i>Prunus virginiana</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Prunus virginiana</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Prunus virginiana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Bigtooth Maple Ravine Woodland	<i>Prunus virginiana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Prunus virginiana</i>	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Prunus virginiana</i>	Tree- Deciduous	3	4.2
Western Great Plains Dry Bur Oak Forest and Woodland	<i>Prunus virginiana</i>	Tree- Deciduous	3	4.2
Great Plains Wooded Draw and Ravine	<i>Prunus virginiana</i>	Tree- Deciduous	3	4.2
Columbia Basin Foothill and Canyon Dry Grassland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Palouse Prairie	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Low Sagebrush Steppe	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Steppe and Grassland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Great Basin Pinyon-Juniper Woodland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mat Saltbush Shrubland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Mixed Salt Desert Scrub	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Grassland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Shale Badland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains Shrubland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Montane-Subalpine Grassland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Southern Rocky Mountain Ponderosa Pine Savanna	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Columbia Basin Foothill and Canyon Dry Grassland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Columbia Plateau Western Juniper Woodland and Savanna	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Great Basin Xeric Mixed Sagebrush Shrubland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Northern Rocky Mountain Foothill Conifer Wooded Steppe	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Rocky Mountain Subalpine-Montane Mesic Meadow	<i>Pseudoroegneria spicata</i>	Graminoid C ₃	3.6	3.6
Mediterranean California Mixed Evergreen Forest	<i>Pseudotsuga macrocarpa</i>	Tree- Evergreen	3.2	2.2
California Coastal Redwood Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Central California Coast Ranges Cliff and Canyon	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Mixed Conifer Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mixed Evergreen Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Middle Rocky Mountain Montane Douglas-fir Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Dry-Mesic Silver Fir-Western Hemlock-Douglas-fir Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Lowland Riparian Forest and Shrubland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Mesic Western Hemlock-Silver Fir Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Montane Riparian Woodland and Shrubland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Oak Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Serpentine Barren	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Wooded Volcanic Flowage	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Foothill Conifer Wooded Steppe	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Mesic Montane Mixed Conifer Forest	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Wooded Vernal Pool	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Sierra Nevada Cliff and Canyon	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	<i>Pseudotsuga menziesii</i>	Tree- Evergreen	3.2	2.2
North American Warm Desert Active and Stabilized Dune	<i>Psoralidium lanceolatum</i>	Forb	3	3.5
Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	<i>Psorothamnus scoparius</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	<i>Psorothamnus spinosus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Ptelea trifoliata</i>	Shrub- Deciduous	2.7	3
Eastern Highland Rim Prairie and Barrens	<i>Pteridium aquilinum</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Upland Longleaf Pine Woodland	<i>Pteridium aquilinum</i>	Graminoid C ₃	3.6	3.6
Madrean Oriental Chaparral	<i>Purshia mexicana</i>	Shrub- Evergreen	2.7	2.4
Mogollon Chaparral	<i>Purshia stansburiana</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Purshia stansburiana</i>	Shrub- Evergreen	2.7	2.4
Great Basin Pinyon-Juniper Woodland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Great Basin Semi-Desert Chaparral	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Active and Stabilized Dune	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Shrubland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Big Sagebrush Steppe	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Juniper Savanna	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Volcanic Rock and Cinder Land	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Poor-Site Lodgepole Pine Forest	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
Southern Rocky Mountain Pinyon-Juniper Woodland	<i>Purshia tridentata</i>	Shrub- Evergreen	2.7	2.4
California Central Valley Mixed Oak Savanna	<i>Quercus agrifolia</i>	Tree- Evergreen	3.2	2.2
California Coastal Live Oak Woodland and Savanna	<i>Quercus agrifolia</i>	Tree- Evergreen	3.2	2.2
Southern California Oak Woodland and Savanna	<i>Quercus agrifolia</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Quercus agrifolia</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Allegheny-Cumberland Dry Oak Forest and Woodland	Quercus alba	Tree- Deciduous	3	4.2
Central and Southern Appalachian Montane Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Crowley's Ridge Mesic Loess Slope Forest	Quercus alba	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Dry Upland Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Bluff Forest	Quercus alba	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	Quercus alba	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Mesic Hardwood Slope Forest	Quercus alba	Tree- Deciduous	3	4.2
Eastern Highland Rim Prairie and Barrens	Quercus alba	Tree- Deciduous	3	4.2
Eastern Serpentine Woodland	Quercus alba	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	Quercus alba	Tree- Deciduous	3	4.2
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	Quercus alba	Tree- Deciduous	3	4.2
North-Central Interior Dry Oak Forest and Woodland	Quercus alba	Tree- Deciduous	3	4.2
North-Central Interior Dry-Mesic Oak Forest and Woodland	Quercus alba	Tree- Deciduous	3	4.2
North-Central Oak Barrens	Quercus alba	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
Ouachita Montane Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry Oak Woodland	Quercus alba	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry-Mesic Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	Quercus alba	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Mesic Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Coastal Plain Dry Upland Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Coastal Plain Mesic Slope Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Interior Low Plateau Dry-Mesic Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	Quercus alba	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Flatwoods	Quercus alba	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	Quercus alba	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Flatwoods	Quercus alba	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	Quercus alba	Tree- Deciduous	3	4.2
Southern Ridge and Valley / Cumberland Dry Calcareous Forest	Quercus alba	Tree- Deciduous	3	4.2
Madrean Encinal	Quercus arizonica	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	Quercus arizonica	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Madrean Upper Montane Conifer-Oak Forest and Woodland	<i>Quercus arizonica</i>	Tree- Evergreen	3.2	2.2
Sonora-Mojave Semi-Desert Chaparral	<i>Quercus berberidifolia</i>	Shrub- Evergreen	2.7	2.4
California Mesic Chaparral	<i>Quercus berberidifolia</i>	Tree- Evergreen	3.2	2.2
North-Central Interior Wet Flatwoods	<i>Quercus bicolor</i>	Tree- Deciduous	3	4.2
Edwards Plateau Dry-Mesic Slope Forest and Woodland	<i>Quercus buckleyi</i>	Tree- Deciduous	3	4.2
Edwards Plateau Mesic Canyon	<i>Quercus buckleyi</i>	Tree- Deciduous	3	4.2
Florida Peninsula Inland Scrub	<i>Quercus chapmanii</i>	Tree- Evergreen	3.2	2.2
Madrean Encinal	<i>Quercus chihuahuensis</i>	Tree- Deciduous	3	4.2
Mediterranean California Mixed Evergreen Forest	<i>Quercus chrysolepis</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mixed Oak Woodland	<i>Quercus chrysolepis</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Quercus chrysolepis</i>	Tree- Evergreen	3.2	2.2
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Central Appalachian Dry Oak-Pine Forest	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
North-Central Interior Dry Oak Forest and Woodland	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Hardwood Forest	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry Oak Woodland	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Southeastern Interior Longleaf Pine Woodland	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Quercus coccinea</i>	Tree- Deciduous	3	4.2
Sonora-Mojave Semi-Desert Chaparral	<i>Quercus cornelius-mulleri</i>	Tree- Evergreen	3.2	2.2
California Lower Montane Blue Oak-Foothill Pine Woodland and Savanna	<i>Quercus douglasii</i>	Tree- Deciduous	3	4.2
Sonora-Mojave Semi-Desert Chaparral	<i>Quercus dumosa</i>	Shrub- Evergreen	2.7	2.4
California Mesic Chaparral	<i>Quercus dumosa</i>	Tree- Evergreen	3.2	2.2
California Xeric Serpentine Chaparral	<i>Quercus durata</i>	Tree- Evergreen	3.2	2.2
Laurentian Pine-Oak Barrens	<i>Quercus ellipsoidalis</i>	Tree- Deciduous	3	4.2
North-Central Interior Dry Oak Forest and Woodland	<i>Quercus ellipsoidalis</i>	Tree- Deciduous	3	4.2
North-Central Oak Barrens	<i>Quercus ellipsoidalis</i>	Tree- Deciduous	3	4.2
Madrean Encinal	<i>Quercus emoryi</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Quercus emoryi</i>	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	<i>Quercus emoryi</i>	Tree- Evergreen	3.2	2.2
Southern California Oak Woodland and Savanna	<i>Quercus engelmannii</i>	Tree- Evergreen	3.2	2.2
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Crowley's Ridge Sand Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Dry Upland Hardwood Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Lower Mississippi River Dune Woodland and Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Southeastern Interior Longleaf Pine Woodland	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Dry Upland Hardwood Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Quercus falcata</i>	Tree- Deciduous	3	4.2
Central and South Texas Coastal Fringe Forest and Woodland	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
East-Central Texas Plains Post Oak Savanna and Woodland	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Floodplain Terrace	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Savanna and Woodland	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Shrubland	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Riparian	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Southeastern Great Plains Floodplain Forest	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Llano Uplift Acidic Forest, Woodland and Glade	<i>Quercus fusiformis</i>	Tree- Evergreen	3.2	2.2
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	<i>Quercus gambelii</i>	Shrub- Deciduous	2.7	3
Madrean Oriental Chaparral	<i>Quercus gambelii</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Pinyon-Juniper Woodland	<i>Quercus gambelii</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Quercus gambelii</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Bigtooth Maple Ravine Woodland	<i>Quercus gambelii</i>	Tree- Deciduous	3	4.2
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Quercus gambelii</i>	Tree- Deciduous	3	4.2
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	<i>Quercus gambelii</i>	Tree- Deciduous	3	4.2
California Lower Montane Blue Oak-Foothill Pine Woodland and Savanna	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
East Cascades Oak-Ponderosa Pine Forest and Woodland	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
Mediterranean California Mixed Oak Woodland	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
North Pacific Oak Woodland	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
California Montane Woodland and Chaparral	<i>Quercus garryana</i>	Shrub- Deciduous	2.7	3
Mediterranean California Mixed Oak Woodland	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
Mediterranean California Mixed Oak Woodland	<i>Quercus garryana</i>	Tree- Deciduous	3	4.2
Southeast Florida Coastal Strand and Maritime Hammock	<i>Quercus geminata</i>	Shrub- Evergreen	2.7	2.4
Florida Peninsula Inland Scrub	<i>Quercus geminata</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Maritime Forest	<i>Quercus geminata</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Oak Dome and Hammock	<i>Quercus geminata</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Madrean Encinal	<i>Quercus grisea</i>	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Quercus grisea</i>	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	<i>Quercus grisea</i>	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	<i>Quercus grisea</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Upland Longleaf Pine Woodland	<i>Quercus hemisphaerica</i>	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Maritime Forest	<i>Quercus hemisphaerica</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Dry Upland Hardwood Forest	<i>Quercus hemisphaerica</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Oak Dome and Hammock	<i>Quercus hemisphaerica</i>	Tree- Evergreen	3.2	2.2
Madrean Encinal	<i>Quercus hypoleucoides</i>	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Quercus hypoleucoides</i>	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	<i>Quercus hypoleucoides</i>	Tree- Evergreen	3.2	2.2
Northeastern Interior Pine Barrens	<i>Quercus ilicifolia</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Pitch Pine Barrens	<i>Quercus ilicifolia</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Upland Longleaf Pine Woodland	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
East-Central Texas Plains Xeric Sandyland	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Sandhill Oak and Shortleaf Pine Forest and Woodland	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Stream Terrace Sandyland Longleaf Pine Woodland	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Upland Longleaf Pine Forest and Woodland	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	<i>Quercus incana</i>	Tree- Deciduous	3	4.2
Central Florida Pine Flatwoods	<i>Quercus inopina</i>	Shrub- Evergreen	2.7	2.4
Florida Peninsula Inland Scrub	<i>Quercus inopina</i>	Shrub- Evergreen	2.7	2.4
Madrean Encinal	<i>Quercus intricata</i>	Tree- Evergreen	3.2	2.2
Sonora-Mojave Semi-Desert Chaparral	<i>Quercus john-tuckeri</i>	Shrub- Evergreen	2.7	2.4
Central and Southern California Mixed Evergreen Woodland	<i>Quercus kelloggii</i>	Tree- Deciduous	3	4.2
Mediterranean California Mixed Oak Woodland	<i>Quercus kelloggii</i>	Tree- Deciduous	3	4.2
Southern California Oak Woodland and Savanna	<i>Quercus kelloggii</i>	Tree- Deciduous	3	4.2
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Quercus kelloggii</i>	Tree- Deciduous	3	4.2
Edwards Plateau Dry-Mesic Slope Forest and Woodland	<i>Quercus laceyi</i>	Tree- Deciduous	3	4.2
Edwards Plateau Limestone Savanna and Woodland	<i>Quercus laceyi</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland	<i>Quercus laevis</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Upland Longleaf Pine Woodland	<i>Quercus laevis</i>	Tree- Deciduous	3	4.2
Florida Longleaf Pine Sandhill	<i>Quercus laevis</i>	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Xeric River Dune	<i>Quercus laevis</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	Quercus laevis	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Brownwater Stream Floodplain Forest	Quercus laurifolia	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	Quercus laurifolia	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Hydric Hammock	Quercus laurifolia	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Seepage Swamp and Baygall	Quercus laurifolia	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	Quercus laurifolia	Tree- Evergreen	3.2	2.2
Mississippi River Bottomland Depression	Quercus lyrata	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Large River Floodplain Forest	Quercus lyrata	Tree- Deciduous	3	4.2
Mississippi River Low Floodplain (Bottomland) Forest	Quercus lyrata	Tree- Deciduous	3	4.2
Eastern Great Plains Tallgrass Aspen Parkland	Quercus macrocarpa	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	Quercus macrocarpa	Tree- Deciduous	3	4.2
North-Central Interior Dry Oak Forest and Woodland	Quercus macrocarpa	Tree- Deciduous	3	4.2
North-Central Interior Dry-Mesic Oak Forest and Woodland	Quercus macrocarpa	Tree- Deciduous	3	4.2
North-Central Interior Oak Savanna	Quercus macrocarpa	Tree- Deciduous	3	4.2
North-Central Oak Barrens	Quercus macrocarpa	Tree- Deciduous	3	4.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	Quercus macrocarpa	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	Quercus macrocarpa	Tree- Deciduous	3	4.2
Western Great Plains Dry Bur Oak Forest and Woodland	Quercus macrocarpa	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland	Quercus margarettae	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Upland Longleaf Pine Woodland	Quercus margarettae	Tree- Deciduous	3	4.2
Southern Coastal Plain Dry Upland Hardwood Forest	Quercus margarettae	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Sandhill Oak and Shortleaf Pine Forest and Woodland	Quercus margarettae	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Stream Terrace Sandyland Longleaf Pine Woodland	Quercus margarettae	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	Quercus margarettae	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
Bastrop Lost Pines Forest and Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
Central Interior Highlands Dry Acidic Glade and Barrens	Quercus marilandica	Tree- Deciduous	3	4.2
Crosstimbers Oak Forest and Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	Quercus marilandica	Tree- Deciduous	3	4.2
East-Central Texas Plains Post Oak Savanna and Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
Eastern Serpentine Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Pitch Pine Barrens	Quercus marilandica	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry Oak Woodland	Quercus marilandica	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Sandhill Oak and Shortleaf Pine Forest and Woodland	Quercus marilandica	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	Quercus marilandica	Tree- Deciduous	3	4.2
Llano Uplift Acidic Forest, Woodland and Glade	Quercus marilandica	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	Quercus michauxii	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	Quercus michauxii	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	Quercus michauxii	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	Quercus michauxii	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Small Stream and River Forest	Quercus michauxii	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	Quercus michauxii	Tree- Deciduous	3	4.2
Florida Dry Prairie	Quercus minima	Shrub- Evergreen	2.7	2.4
Edwards Plateau Limestone Shrubland	Quercus mohriana	Shrub- Evergreen	2.7	2.4
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	Quercus mohriana	Tree- Evergreen	3.2	2.2
Madrean Pinyon-Juniper Woodland	Quercus mohriana	Tree- Evergreen	3.2	2.2
Central Appalachian Alkaline Glade and Woodland	Quercus muehlenbergii	Tree- Deciduous	3	4.2
Central Interior Highlands Calcareous Glade and Barrens	Quercus muehlenbergii	Tree- Deciduous	3	4.2
Edwards Plateau Mesic Canyon	Quercus muehlenbergii	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	Quercus muehlenbergii	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	Quercus muehlenbergii	Tree- Deciduous	3	4.2
Southern Interior Low Plateau Dry-Mesic Oak Forest	Quercus muehlenbergii	Tree- Deciduous	3	4.2
Southern Ridge and Valley / Cumberland Dry Calcareous Forest	Quercus muehlenbergii	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Dune and Coastal Grassland	Quercus myrtifolia	Shrub- Evergreen	2.7	2.4
Florida Longleaf Pine Sandhill	Quercus myrtifolia	Tree- Evergreen	3.2	2.2
Florida Peninsula Inland Scrub	Quercus myrtifolia	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Xeric River Dune	Quercus myrtifolia	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	Quercus nigra	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	Quercus nigra	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	Quercus nigra	Tree- Deciduous	3	4.2
Mississippi Delta Maritime Forest	Quercus nigra	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	Quercus nigra	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	Quercus nigra	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	Quercus nigra	Tree- Deciduous	3	4.2
Southern Coastal Plain Oak Dome and Hammock	Quercus nigra	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	Quercus nigra	Tree- Deciduous	3	4.2
Madrean Encinal	Quercus oblongifolia	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Madrean Lower Montane Pine-Oak Forest and Woodland	<i>Quercus oblongifolia</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Mesic Hardwood Slope Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loess Bluff Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
Lower Mississippi River Flatwoods	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
Southern Piedmont Large Floodplain Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
Mississippi River Floodplain and Riparian Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
Mississippi River Riparian Forest	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Quercus pagoda</i>	Tree- Deciduous	3	4.2
North-Central Interior Wet Flatwoods	<i>Quercus palustris</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Quercus palustris</i>	Tree- Deciduous	3	4.2
Atlantic Coastal Plain Brownwater Stream Floodplain Forest	<i>Quercus phellos</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Quercus phellos</i>	Tree- Deciduous	3	4.2
Piedmont Upland Depression Swamp	<i>Quercus phellos</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Quercus phellos</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	<i>Quercus phellos</i>	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Small Stream and River Forest	<i>Quercus phellos</i>	Tree- Deciduous	3	4.2
Allegheny-Cumberland Dry Oak Forest and Woodland	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Appalachian Shale Barrens	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Central and Southern Appalachian Montane Oak Forest	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Central Appalachian Dry Oak-Pine Forest	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Central Appalachian Pine-Oak Rocky Woodland	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Central Interior Highlands Dry Acidic Glade and Barrens	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Northern Atlantic Coastal Plain Hardwood Forest	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Southeastern Interior Longleaf Pine Woodland	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	<i>Quercus prinus</i>	Tree- Deciduous	3	4.2
Central and Southern Appalachian Montane Oak Forest	<i>Quercus rubra</i>	Tree- Deciduous	3	4.2
Crowley's Ridge Sand Forest	<i>Quercus rubra</i>	Tree- Deciduous	3	4.2
Great Lakes Wooded Dune and Swale	<i>Quercus rubra</i>	Tree- Deciduous	3	4.2
Laurentian-Acadian Pine-Hemlock-Hardwood Forest	<i>Quercus rubra</i>	Tree- Deciduous	3	4.2
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	<i>Quercus rubra</i>	Tree- Deciduous	3	4.2
North-Central Interior Beech-Maple Forest	<i>Quercus rubra</i>	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
North-Central Interior Dry-Mesic Oak Forest and Woodland	Quercus rubra	Tree- Deciduous	3	4.2
North-Central Interior Maple-Basswood Forest	Quercus rubra	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	Quercus rubra	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry-Mesic Oak Forest	Quercus rubra	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	Quercus rubra	Tree- Deciduous	3	4.2
South-Central Interior Mesophytic Forest	Quercus rubra	Tree- Deciduous	3	4.2
Southern Piedmont Mesic Forest	Quercus rubra	Tree- Deciduous	3	4.2
Appalachian (Hemlock)-Northern Hardwood Forest	Quercus rubra	Tree- Deciduous	3	4.2
Laurentian-Acadian Northern Pine-(Oak) Forest	Quercus rubra	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	Quercus rubra	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	Quercus rubra	Tree- Deciduous	3	4.2
Southern Ridge and Valley / Cumberland Dry Calcareous Forest	Quercus rubra	Tree- Deciduous	3	4.2
Madrean Lower Montane Pine-Oak Forest and Woodland	Quercus rugosa	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	Quercus rugosa	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral	Quercus sadleriana	Shrub- Evergreen	2.7	2.4
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	Quercus shumardii	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	Quercus shumardii	Tree- Deciduous	3	4.2
Red River Large Floodplain Forest	Quercus similis	Tree- Deciduous	3	4.2
Edwards Plateau Limestone Shrubland	Quercus sinuata	Tree- Deciduous	3	4.2
Arkansas Valley Prairie and Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Bastrop Lost Pines Forest and Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Central Interior Highlands Dry Acidic Glade and Barrens	Quercus stellata	Tree- Deciduous	3	4.2
Crosstimbers Oak Forest and Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Crowley's Ridge Sand Forest	Quercus stellata	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest	Quercus stellata	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Dry Upland Hardwood Forest	Quercus stellata	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	Quercus stellata	Tree- Deciduous	3	4.2
East-Central Texas Plains Post Oak Savanna and Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Eastern Serpentine Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Edwards Plateau Limestone Savanna and Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Lower Mississippi River Dune Woodland and Forest	Quercus stellata	Tree- Deciduous	3	4.2
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	Quercus stellata	Tree- Deciduous	3	4.2
Ouachita Montane Oak Forest	Quercus stellata	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry Oak Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry-Mesic Oak Forest	Quercus stellata	Tree- Deciduous	3	4.2
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	Quercus stellata	Tree- Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Ozark-Ouachita Shortleaf Pine-Oak Forest and Woodland	Quercus stellata	Tree- Deciduous	3	4.2
South-Central Saline Glade	Quercus stellata	Tree- Deciduous	3	4.2
Southeastern Interior Longleaf Pine Woodland	Quercus stellata	Tree- Deciduous	3	4.2
Southern Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	Quercus stellata	Tree- Deciduous	3	4.2
Southern Coastal Plain Dry Upland Hardwood Forest	Quercus stellata	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	Quercus stellata	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Catahoula Barrens	Quercus stellata	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Nepheline Syenite Glade	Quercus stellata	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Flatwoods	Quercus stellata	Tree- Deciduous	3	4.2
West Gulf Coastal Plain Pine-Hardwood Forest	Quercus stellata	Tree- Deciduous	3	4.2
Llano Uplift Acidic Forest, Woodland and Glade	Quercus stellata	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Flatwoods	Quercus stellata	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	Quercus stellata	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	Quercus stellata	Tree- Deciduous	3	4.2
Mogollon Chaparral	Quercus toumeyi	Shrub- Evergreen	2.7	2.4
Madrean Encinal	Quercus toumeyi	Tree- Evergreen	3.2	2.2
Madrean Lower Montane Pine-Oak Forest and Woodland	Quercus toumeyi	Tree- Evergreen	3.2	2.2
Madrean Upper Montane Conifer-Oak Forest and Woodland	Quercus toumeyi	Tree- Evergreen	3.2	2.2
Mogollon Chaparral	Quercus turbinella	Shrub- Evergreen	2.7	2.4
Great Basin Pinyon-Juniper Woodland	Quercus turbinella	Tree- Evergreen	3.2	2.2
Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral	Quercus vaccinifolia	Shrub- Evergreen	2.7	2.4
Edwards Plateau Limestone Savanna and Woodland	Quercus vaseyana	Tree- Evergreen	3.2	2.2
Edwards Plateau Limestone Shrubland	Quercus vaseyana	Tree- Evergreen	3.2	2.2
Crowley's Ridge Sand Forest	Quercus velutina	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	Quercus velutina	Tree- Deciduous	3	4.2
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	Quercus velutina	Tree- Deciduous	3	4.2
North-Central Interior Dry Oak Forest and Woodland	Quercus velutina	Tree- Deciduous	3	4.2
North-Central Oak Barrens	Quercus velutina	Tree- Deciduous	3	4.2
Northeastern Interior Dry-Mesic Oak Forest	Quercus velutina	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry Oak Woodland	Quercus velutina	Tree- Deciduous	3	4.2
Ozark-Ouachita Dry-Mesic Oak Forest	Quercus velutina	Tree- Deciduous	3	4.2
Ozark-Ouachita Shortleaf Pine-Oak Forest and Woodland	Quercus velutina	Tree- Deciduous	3	4.2
Southeastern Interior Longleaf Pine Woodland	Quercus velutina	Tree- Deciduous	3	4.2
Southern Appalachian Oak Forest	Quercus velutina	Tree- Deciduous	3	4.2
Southern Piedmont Dry Oak-(Pine) Forest	Quercus velutina	Tree- Deciduous	3	4.2
Central Atlantic Coastal Plain Maritime Forest	Quercus virginiana	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Maritime Forest	Quercus virginiana	Tree- Evergreen	3.2	2.2
Mississippi Delta Maritime Forest	Quercus virginiana	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Southeast Florida Coastal Strand and Maritime Hammock	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
Southeastern Great Plains Floodplain Forest	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Maritime Forest	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Hydric Hammock	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Oak Dome and Hammock	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
Southwest Florida Coastal Strand and Maritime Hammock	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Chenier and Upper Texas Coastal Fringe Forest and Woodland	<i>Quercus virginiana</i>	Tree- Evergreen	3.2	2.2
California Central Valley Mixed Oak Savanna	<i>Quercus wislizeni</i>	Tree- Evergreen	3.2	2.2
California Lower Montane Blue Oak-Foothill Pine Woodland and Savanna	<i>Quercus wislizeni</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mixed Oak Woodland	<i>Quercus wislizeni</i>	Tree- Evergreen	3.2	2.2
Southern California Oak Woodland and Savanna	<i>Quercus wislizeni</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Quercus wislizeni</i>	Tree- Evergreen	3.2	2.2
California Mesic Chaparral	<i>Quercus wislizeni</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Rhamnus alnifolia</i>	Shrub- Deciduous	2.7	3
California Mesic Chaparral	<i>Rhamnus crocea</i>	Shrub- Evergreen	2.7	2.4
California Mesic Chaparral	<i>Rhamnus crocea</i>	Shrub- Evergreen	2.7	2.4
South Florida Mangrove Swamp	<i>Rhizophora mangle</i>	Shrub- Evergreen	2.7	2.4
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Rhododendron albiflorum</i>	Shrub- Deciduous	2.7	3
Southern Appalachian Grass and Shrub Bald	<i>Rhododendron carolinianum</i>	Shrub- Evergreen	2.7	2.4
Southern Appalachian Grass and Shrub Bald	<i>Rhododendron catawbiense</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Rhododendron macrophyllum</i>	Shrub- Evergreen	2.7	2.4
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Rhus glabra</i>	Shrub- Deciduous	2.7	3
Madrean Oriental Chaparral	<i>Rhus microphylla</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	<i>Rhus microphylla</i>	Shrub- Deciduous	2.7	3
Mogollon Chaparral	<i>Rhus ovata</i>	Shrub- Evergreen	2.7	2.4
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Rhus trilobata</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Rhus trilobata</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Rhus trilobata</i>	Shrub- Deciduous	2.7	3
Western Great Plains Cliff and Outcrop	<i>Rhus trilobata</i>	Shrub- Deciduous	2.7	3
Edwards Plateau Limestone Shrubland	<i>Rhus virens</i>	Shrub- Evergreen	2.7	2.4
Madrean Oriental Chaparral	<i>Rhus virens</i>	Shrub- Evergreen	2.7	2.4
East Gulf Coastal Plain Depression Pond	<i>Rhynchospora chapmanii</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Blackland Prairie and Woodland	<i>Rhynchospora colorata</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Rhynchospora corniculata</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Savanna and Wet Prairie	<i>Rhynchospora corniculata</i>	Graminoid C ₃	3.6	3.6
West Gulf Coastal Plain Flatwoods Pond	<i>Rhynchospora corniculata</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Rhynchospora filifolia</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Rhynchospora harperi</i>	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Atlantic Coastal Plain Clay-Based Carolina Bay Wetland	<i>Rhynchospora inundata</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Rhynchospora inundata</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Depression Pond	<i>Rhynchospora inundata</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Herbaceous Seep and Bog	<i>Rhynchospora macra</i>	Graminoid C ₃	3.6	3.6
South Florida Dwarf Cypress Savanna	<i>Rhynchospora microcarpa</i>	Graminoid C ₃	3.6	3.6
South Florida Wet Marl Prairie	<i>Rhynchospora microcarpa</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Herbaceous Seep and Bog	<i>Rhynchospora stenophylla</i>	Graminoid C ₃	3.6	3.6
East Gulf Coastal Plain Depression Pond	<i>Rhynchospora tracyi</i>	Graminoid C ₃	3.6	3.6
North Pacific Montane Riparian Woodland and Shrubland	<i>Ribes bracteosum</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Ribes cereum</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Ribes cereum</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Ribes lacustre</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Robinia neomexicana</i>	Tree- Deciduous	3	4.2
Rocky Mountain Alpine-Montane Wet Meadow	<i>Rorippa alpina</i>	Forb	3	3.5
Southern Appalachian Grass and Shrub Bald	<i>Rubus allegheniensis</i>	Shrub- Deciduous	2.7	3
Central and Southern Appalachian Spruce-Fir Forest	<i>Rubus canadensis</i>	Shrub- Deciduous	2.7	3
California Central Valley Riparian Woodland and Shrubland	<i>Rubus discolor</i>	Shrub	2.7	2.8
North Pacific Avalanche Chute Shrubland	<i>Rubus parviflorus</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Shrubland	<i>Rubus parviflorus</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Rubus parviflorus</i>	Shrub- Deciduous	2.7	3
North Pacific Hypermaritime Shrub and Herbaceous Headland	<i>Rubus spectabilis</i>	Shrub- Deciduous	2.7	3
North Pacific Lowland Riparian Forest and Shrubland	<i>Rubus spectabilis</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Riparian Woodland and Shrubland	<i>Rubus spectabilis</i>	Shrub- Deciduous	2.7	3
California Central Valley Riparian Woodland and Shrubland	<i>Rubus ursinus</i>	Shrub	2.7	2.8
California Coastal Live Oak Woodland and Savanna	<i>Rubus ursinus</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Sabal minor</i>	Shrub- Deciduous	2.7	3
Central Atlantic Coastal Plain Maritime Forest	<i>Sabal palmetto</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Maritime Forest	<i>Sabal palmetto</i>	Shrub- Deciduous	2.7	3
South Florida Pine Rockland	<i>Sabal palmetto</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Hydric Hammock	<i>Sabal palmetto</i>	Tree- Deciduous	3	4.2
Southwest Florida Coastal Strand and Maritime Hammock	<i>Sabal palmetto</i>	Tree- Deciduous	3	4.2
East Gulf Coastal Plain Depression Pond	<i>Sabatia angularis</i>	Forb	3	3.5
Florida Big Bend Fresh and Oligohaline Tidal Marsh	<i>Sagittaria lancifolia</i>	Forb	3	3.5
Texas-Louisiana Coastal Prairie Pondshore	<i>Sagittaria longiloba</i>	Forb	3	3.5
Mojave Mid-Elevation Mixed Desert Scrub	<i>Salazaria mexicana</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
North American Warm Desert Wash	<i>Salazaria mexicana</i>	Shrub- Deciduous	2.7	3
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Salicornia virginica</i>	Forb	3	3.5
Western Great Plains Floodplain	<i>Salix amygdaloides</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Salix amygdaloides</i>	Tree- Deciduous	3	4.2
Rocky Mountain Alpine Dwarf-Shrubland	<i>Salix arctica</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix bebbiana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix boothii</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix brachycarpa</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Salix caroliniana</i>	Shrub- Deciduous	2.7	3
Central Atlantic Coastal Plain Maritime Forest	<i>Salix caroliniana</i>	Shrub- Deciduous	2.7	3
South Florida Everglades Sawgrass Marsh	<i>Salix caroliniana</i>	Shrub- Deciduous	2.7	3
South Florida Slough, Gator Hole and Willow Head	<i>Salix caroliniana</i>	Shrub- Deciduous	2.7	3
Great Lakes Dune	<i>Salix cordata</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Salix drummondiana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix drummondiana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix eriocephala</i>	Shrub- Deciduous	2.7	3
California Central Valley Riparian Woodland and Shrubland	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Riparian Mesquite Bosque	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Riparian Woodland and Shrubland	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
Northwestern Great Plains Floodplain	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
Western Great Plains Floodplain	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix exigua</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Riparian Woodland and Shrubland	<i>Salix geyeriana</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix geyeriana</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix gooddingii</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Salix gooddingii</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Riparian Woodland and Shrubland	<i>Salix gooddingii</i>	Tree- Deciduous	3	4.2
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix gooddingii</i>	Tree- Deciduous	3	4.2
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Salix irrorata</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix laevigata</i>	Shrub- Deciduous	2.7	3
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix laevigata</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix lasiolepis</i>	Shrub- Deciduous	2.7	3
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix lasiolepis</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Riparian Woodland and Shrubland	<i>Salix lasiolepis</i>	Tree- Deciduous	3	4.2
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix lemmonii</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Salix lucida</i>	Shrub- Deciduous	2.7	3
North Pacific Lowland Riparian Forest and Shrubland	<i>Salix lucida</i>	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	<i>Salix lutea</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Salix monticola</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix monticola</i>	Shrub- Deciduous	2.7	3
Great Lakes Dune	<i>Salix myricoides</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Salix nigra</i>	Shrub- Deciduous	2.7	3
South-Central Interior Large Floodplain	<i>Salix nigra</i>	Shrub- Deciduous	2.7	3
Southeastern Great Plains Floodplain Forest	<i>Salix nigra</i>	Shrub- Deciduous	2.7	3
Southeastern Great Plains Riparian Forest	<i>Salix nigra</i>	Shrub- Deciduous	2.7	3
Southern Piedmont Large Floodplain Forest	<i>Salix nigra</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Alpine Dwarf-Shrubland	<i>Salix nivalis</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix planifolia</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Alpine Dwarf-Shrubland	<i>Salix reticulata</i>	Shrub- Deciduous	2.7	3
North Pacific Alpine and Subalpine Bedrock and Scree	<i>Salix rotundifolia</i>	Shrub- Deciduous	2.7	3
North Pacific Lowland Riparian Forest and Shrubland	<i>Salix sitchensis</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Alpine Dwarf-Shrubland	<i>Salix vestita</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Riparian Shrubland	<i>Salix wolfii</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Sandy Beach	<i>Salsola kali</i>	Forb	3	3.5
Southern California Coastal Scrub	<i>Salvia apiana</i>	Shrub	2.7	2.8
Colorado Plateau Blackbrush-Mormon-tea Shrubland	<i>Salvia dorrii</i>	Shrub- Deciduous	2.7	3
Columbia Plateau Ash and Tuff Badland	<i>Salvia dorrii</i>	Shrub- Deciduous	2.7	3
Southern California Coastal Scrub	<i>Salvia leucophylla</i>	Shrub- Deciduous	2.7	3
Southern California Coastal Scrub	<i>Salvia mellifera</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	<i>Sapindus saponaria</i>	Shrub- Evergreen	2.7	2.4
Southeastern Great Plains Riparian Forest	<i>Sapindus saponaria</i>	Shrub- Evergreen	2.7	2.4
Southeastern Great Plains Floodplain Forest	<i>Sapindus saponaria</i>	Shrub- Evergreen	2.7	2.4
West Gulf Coastal Plain Southern Calcareous Prairie	<i>Sapindus saponaria</i>	Shrub- Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Inter-Mountain Basins Active and Stabilized Dune	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Greasewood Flat	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Wash	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Wash	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
Western Great Plains Badlands	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
Western Great Plains Saline Depression Wetland	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
Western Great Plains Depressional Wetland Systems	<i>Sarcobatus vermiculatus</i>	Shrub- Deciduous	2.7	3
Texas Coast Salt and Brackish Tidal Marsh	<i>Sarcocornia pacifica</i>	Forb	3	3.5
South Texas Salt and Brackish Tidal Flat	<i>Sarcocornia perennis</i>	Forb	3	3.5
North American Warm Desert Playa	<i>Sarcocornia utahensis</i>	Forb	3	3.5
North Pacific Alpine and Subalpine Bedrock and Scree	<i>Saxifraga bronchialis</i>	Forb	3	3.5
Southern Appalachian Rocky Summit	<i>Saxifraga michauxii</i>	Forb	3	3.5
North Pacific Alpine and Subalpine Bedrock and Scree	<i>Saxifraga sibirica</i>	Forb	3	3.5
Southern Piedmont Cliff	<i>Saxifraga virginensis</i>	Forb	3	3.5
Madrean Encinal	<i>Schizachyrium cirratum</i>	Graminoid C ₄	3.6	4.1
Florida Panhandle Beach Vegetation	<i>Schizachyrium maritimum</i>	Graminoid C ₄	3.6	4.1
Arkansas Valley Prairie and Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Central Appalachian Alkaline Glade and Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Central Interior Calcareous Cliff and Talus	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Central Interior Highlands Calcareous Glade and Barrens	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Central Interior Highlands Dry Acidic Glade and Barrens	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Central Mixedgrass Prairie	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Crosstimbers Oak Forest and Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Cumberland Sandstone Glade and Barrens	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
East-Central Texas Plains Xeric Sandyland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Eastern Serpentine Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Limestone Savanna and Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Great Lakes Alvar	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Lower Mississippi River Dune Woodland and Forest	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Nashville Basin Limestone Glade and Woodland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
North-Central Interior Oak Savanna	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
North-Central Interior Sand and Gravel Tallgrass Prairie	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
North-Central Oak Barrens	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Northeastern Interior Pine Barrens	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Northern Atlantic Coastal Plain Heathland and Grassland	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1
Northern Atlantic Coastal Plain Pitch Pine Barrens	<i>Schizachyrium scoparium</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Northern Tallgrass Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Ouachita Montane Oak Forest	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Ozark-Ouachita Shortleaf Pine-Oak Forest and Woodland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Paleozoic Plateau Bluff and Talus	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southeastern Great Plains Tallgrass Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southeastern Interior Longleaf Pine Woodland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Appalachian Granitic Dome	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Coastal Plain Blackland Prairie and Woodland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Coastal Plain Limestone Forest	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Interior Calcareous Cliff	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Piedmont Cliff	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Piedmont Granite Flatrock and Outcrop	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Juniper Woodland and Savanna	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Ponderosa Pine Savanna	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Texas Blackland Tallgrass Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Catahoula Barrens	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Nepheline Syenite Glade	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Upland Longleaf Pine Forest and Woodland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Western Great Plains Foothill and Piedmont Grassland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Western Great Plains Riparian	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Western Great Plains Sandhill Steppe	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Western Great Plains Tallgrass Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Central Tallgrass Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Llano Uplift Acidic Forest, Woodland and Glade	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
South Texas Dune and Coastal Grassland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
South Texas Sand Sheet Grassland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Texas Coast Dune and Coastal Grassland	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Texas Saline Coastal Prairie	Schizachyrium scoparium	Graminoid C ₄	3.6	4.1
Florida Dry Prairie	Schizachyrium stoloniferum	Graminoid C ₄	3.6	4.1
Great Lakes Freshwater Estuary and Delta	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
Great Plains Prairie Pothole	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
North-Central Interior Freshwater Marsh	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
Northern Great Lakes Coastal Marsh	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Emergent Marsh	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
Western Great Plains Open Freshwater Depression Wetland	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	Schoenoplectus acutus	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Inter-Mountain Basins Alkaline Closed Depression	<i>Schoenoplectus americanus</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Interdunal Swale Wetland	<i>Schoenoplectus americanus</i>	Graminoid C ₃	3.6	3.6
Laurentian-Acadian Freshwater Marsh	<i>Schoenoplectus americanus</i>	Graminoid C ₃	3.6	3.6
North American Warm Desert Cienega	<i>Schoenoplectus americanus</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Schoenoplectus americanus</i>	Graminoid C ₃	3.6	3.6
Texas Coast Salt and Brackish Tidal Marsh	<i>Schoenoplectus americanus</i>	Graminoid C ₃	3.6	3.6
Florida Big Bend Fresh and Oligohaline Tidal Marsh	<i>Schoenoplectus californicus</i>	Graminoid C ₃	3.6	3.6
North American Arid West Emergent Marsh	<i>Schoenoplectus californicus</i>	Graminoid C ₃	3.6	3.6
Great Plains Prairie Pothole	<i>Schoenoplectus fluviatilis</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Alkaline Closed Depression	<i>Schoenoplectus maritimus</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Schoenoplectus maritimus</i>	Graminoid C ₃	3.6	3.6
Acadian Estuary Marsh	<i>Schoenoplectus pungens</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	<i>Schoenoplectus pungens</i>	Graminoid C ₃	3.6	3.6
Great Lakes Freshwater Estuary and Delta	<i>Schoenoplectus pungens</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Schoenoplectus pungens</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Emergent Marsh	<i>Schoenoplectus pungens</i>	Graminoid C ₃	3.6	3.6
Acadian Estuary Marsh	<i>Schoenoplectus tabernaemontani</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Emergent Marsh	<i>Schoenoplectus tabernaemontani</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Open Freshwater Depression Wetland	<i>Schoenoplectus tabernaemontani</i>	Graminoid C ₃	3.6	3.6
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Schoenoplectus tabernaemontani</i>	Graminoid C ₃	3.6	3.6
South Florida Slough, Gator Hole and Willow Head	<i>Schoenoplectus tabernaemontani</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	<i>Schoenoplectus tabernaemontani</i>	Graminoid C ₃	3.6	3.6
South Florida Wet Marl Prairie	<i>Schoenus nigricans</i>	Graminoid C ₃	3.6	3.6
Piedmont Upland Depression Swamp	<i>Scirpus cyperinus</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Blackland Prairie and Woodland	<i>Scleria verticillata</i>	Graminoid C ₃	3.6	3.6
Chihuahuan Loamy Plains Desert Grassland	<i>Scleropogon brevifolius</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Upland Depression	<i>Sedum nuttallianum</i>	Forb	3	3.5
Edwards Plateau Upland Depression	<i>Sedum pulchellum</i>	Forb	3	3.5
Rocky Mountain Alpine-Montane Wet Meadow	<i>Senecio triangularis</i>	Forb	3	3.5
Central Florida Pine Flatwoods	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
East Gulf Coastal Plain Maritime Forest	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
Florida Dry Prairie	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
Florida Peninsula Inland Scrub	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
South Florida Pine Flatwoods	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
South Florida Pine Rockland	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
Southeast Florida Coastal Strand and Maritime Hammock	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
Southern Atlantic Coastal Plain Maritime Forest	<i>Serenoa repens</i>	Shrub- Deciduous	2.7	3
Central Atlantic Coastal Plain Sandy Beach	<i>Sesuvium portulacastrum</i>	Forb	3	3.5
Southern Atlantic Coastal Plain Florida Beach	<i>Sesuvium portulacastrum</i>	Forb	3	3.5

Community	Species	Classification	Resistance	Resilience
Southern Atlantic Coastal Plain Sea Island Beach	<i>Sesuvium portulacastrum</i>	Forb	3	3.5
North American Warm Desert Riparian Woodland and Shrubland	<i>Shepherdia argentea</i>	Shrub- Deciduous	2.7	3
Northwestern Great Plains Shrubland	<i>Shepherdia argentea</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	<i>Shepherdia argentea</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Shrubland	<i>Shepherdia canadensis</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Shepherdia canadensis</i>	Shrub- Deciduous	2.7	3
North Pacific Alpine and Subalpine Bedrock and Scree	<i>Sibbaldia procumbens</i>	Forb	3	3.5
Rocky Mountain Alpine Fell-Field	<i>Sibbaldia procumbens</i>	Forb	3	3.5
Sierra Nevada Alpine Dwarf-Shrubland	<i>Sibbaldia procumbens</i>	Forb	3	3.5
Southern Appalachian Rocky Summit	<i>Sibbaldiopsis tridentata</i>	Forb	3	3.5
West Gulf Coastal Plain Weches Glade	<i>Sideroxylon lanuginosum</i>	Shrub- Evergreen	2.7	2.4
Rocky Mountain Alpine Fell-Field	<i>Silene acaulis</i>	Forb	3	3.5
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Smilax laurifolia</i>	Shrub	2.7	2.8
West Gulf Coastal Plain Seepage Swamp and Baygall	<i>Smilax laurifolia</i>	Shrub	2.7	2.8
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Smilax laurifolia</i>	Shrub	2.7	2.8
Eastern Highland Rim Prairie and Barrens	<i>Solidago odora</i>	Forb	3	3.5
Eastern Highland Rim Prairie and Barrens	<i>Solidago rugosa</i>	Forb	3	3.5
Northern Atlantic Coastal Plain Dune and Swale	<i>Solidago sempervirens</i>	Forb	3	3.5
Edwards Plateau Limestone Shrubland	<i>Sophora secundiflora</i>	Shrub- Evergreen	2.7	2.4
Tamaulipan Calcareous Thornscrub	<i>Sophora secundiflora</i>	Shrub- Evergreen	2.7	2.4
Central and Southern Appalachian Spruce-Fir Forest	<i>Sorbus americana</i>	Shrub- Deciduous	2.7	3
Southern Appalachian Grass and Shrub Bald	<i>Sorbus americana</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Sorbus scopulina</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Sorbus sitchensis</i>	Shrub- Deciduous	2.7	3
Arkansas Valley Prairie and Woodland	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Central Interior Highlands Dry Acidic Glade and Barrens	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Cumberland Riverscour	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Eastern Highland Rim Prairie and Barrens	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Eastern Serpentine Woodland	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Lower Mississippi River Dune Woodland and Forest	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Northern Tallgrass Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Southeastern Great Plains Tallgrass Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Southern Coastal Plain Blackland Prairie and Woodland	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Texas Blackland Tallgrass Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Northern Calcareous Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
West Gulf Coastal Plain Southern Calcareous Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Central Tallgrass Prairie	<i>Sorghastrum nutans</i>	Graminoid C ₄	3.6	4.1
Florida Dry Prairie	<i>Sorghastrum secundum</i>	Graminoid C ₄	3.6	4.1
Acadian Coastal Salt Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Acadian Estuary Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Indian River Lagoon Tidal Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Florida Big Bend Salt and Brackish Tidal Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Gulf Coast Chenier Plain Salt and Brackish Tidal Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Northern Atlantic Coastal Plain Tidal Salt Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Salt and Brackish Tidal Marsh	<i>Spartina alterniflora</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Indian River Lagoon Tidal Marsh	<i>Spartina bakeri</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Spartina cynosuroides</i>	Graminoid C ₄	3.6	4.1
Acadian Coastal Salt Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Acadian Estuary Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Central and South Texas Coastal Fringe Forest and Woodland	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Dune and Coastal Grassland	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Gulf Coast Chenier Plain Beach	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Gulf Coast Chenier Plain Fresh and Oligohaline Tidal Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Gulf Coast Chenier Plain Salt and Brackish Tidal Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Louisiana Beach	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Northern Atlantic Coastal Plain Tidal Salt Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Dune and Maritime Grassland	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Texas Coast Beach	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Texas Coast Dune and Coastal Grassland	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Texas Coast Fresh and Oligohaline Tidal Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Texas Coast Salt and Brackish Tidal Marsh	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Texas Saline Coastal Prairie	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
South Texas Dune and Coastal Grassland	<i>Spartina patens</i>	Graminoid C ₄	3.6	4.1
Great Lakes Wet-Mesic Lakeplain Prairie	<i>Spartina pectinata</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Open Freshwater Depression Wetland	<i>Spartina pectinata</i>	Graminoid C ₄	3.6	4.1
Eastern Great Plains Wet Meadow, Prairie and Marsh	<i>Spartina pectinata</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Depressional Wetland Systems	<i>Spartina pectinata</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
South Texas Salt and Brackish Tidal Flat	<i>Spartina spartinae</i>	Graminoid C ₄	3.6	4.1
Texas Saline Coastal Prairie	<i>Spartina spartinae</i>	Graminoid C ₄	3.6	4.1
Northern California Claypan Vernal Pool	<i>Spergularia salina</i>	Forb	3	3.5
Laurentian-Acadian Wet Meadow-Shrub Swamp	<i>Spiraea alba</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Western Larch Savanna	<i>Spiraea betulifolia</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lodgepole Pine Forest	<i>Spiraea betulifolia</i>	Shrub- Deciduous	2.7	3
North Pacific Shrub Swamp	<i>Spiraea douglasii</i>	Shrub- Deciduous	2.7	3
Chihuahuan Gypsophilous Grassland and Steppe	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Mixed Salt Desert Scrub	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Greasewood Flat	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Grassland	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
North American Warm Desert Cienega	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Saline Depression Wetland	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Depressional Wetland Systems	<i>Sporobolus airoides</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Nepheline Syenite Glade	<i>Sporobolus clandestinus</i>	Graminoid C ₄	3.6	4.1
Columbia Basin Foothill and Canyon Dry Grassland	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Inter-Mountain Basins Semi-Desert Shrub-Steppe	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Southern Rocky Mountain Juniper Woodland and Savanna	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Foothill and Piedmont Grassland	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Mesquite Woodland and Shrubland	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Riparian	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Sandhill Steppe	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Shortgrass Prairie	<i>Sporobolus cryptandrus</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Sandy Plains Semi-Desert Grassland	<i>Sporobolus flexuosus</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	<i>Sporobolus flexuosus</i>	Graminoid C ₄	3.6	4.1
East Gulf Coastal Plain Savanna and Wet Prairie	<i>Sporobolus floridanus</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Sandhill Steppe	<i>Sporobolus giganteus</i>	Graminoid C ₄	3.6	4.1
Great Lakes Alvar	<i>Sporobolus heterolepis</i>	Graminoid C ₄	3.6	4.1
Western Great Plains Tallgrass Prairie	<i>Sporobolus heterolepis</i>	Graminoid C ₄	3.6	4.1
Chihuahuan Gypsophilous Grassland and Steppe	<i>Sporobolus nealleyi</i>	Graminoid C ₄	3.6	4.1
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Sporobolus pinetorum</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Catahoula Barrens	<i>Sporobolus silveanus</i>	Graminoid C ₄	3.6	4.1
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	<i>Sporobolus teretifolius</i>	Graminoid C ₄	3.6	4.1
Edwards Plateau Upland Depression	<i>Sporobolus vaginiflorus</i>	Graminoid C ₄	3.6	4.1
West Gulf Coastal Plain Weches Glade	<i>Sporobolus vaginiflorus</i>	Graminoid C ₄	3.6	4.1
Louisiana Beach	<i>Sporobolus virginicus</i>	Graminoid C ₄	3.6	4.1
Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	<i>Sporobolus wrightii</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
North-Central Appalachian Circumneutral Cliff and Talus	<i>Staphylea trifolia</i>	Shrub- Deciduous	2.7	3
Columbia Plateau Scabland Shrubland	<i>Stenotus stenophyllus</i>	Forb	3	3.5
Southern Coastal Plain Oak Dome and Hammock	<i>Stylisma humistrata</i>	Forb	3	3.5
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Styrax americanus</i>	Shrub- Deciduous	2.7	3
Southern Coastal Plain Nonriverine Cypress Dome	<i>Styrax americanus</i>	Shrub- Deciduous	2.7	3
North American Warm Desert Playa	<i>Suaeda calceoliformis</i>	Forb	3	3.5
South Florida Hardwood Hammock	<i>Swietenia mahagoni</i>	Tree- Evergreen	3.2	2.2
Middle Rocky Mountain Montane Douglas-fir Forest and Woodland	<i>Symphoricarpos albus</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Symphoricarpos albus</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	<i>Symphoricarpos albus</i>	Shrub- Deciduous	2.7	3
Northwestern Great Plains Aspen Forest and Parkland	<i>Symphoricarpos albus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Aspen Forest and Woodland	<i>Symphoricarpos albus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Symphoricarpos albus</i>	Shrub- Deciduous	2.7	3
California Coastal Live Oak Woodland and Savanna	<i>Symphoricarpos mollis</i>	Shrub- Deciduous	2.7	3
Northwestern Great Plains Shrubland	<i>Symphoricarpos occidentalis</i>	Shrub- Deciduous	2.7	3
Western Great Plains Dry Bur Oak Forest and Woodland	<i>Symphoricarpos occidentalis</i>	Shrub- Deciduous	2.7	3
Great Plains Wooded Draw and Ravine	<i>Symphoricarpos occidentalis</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Montane Sagebrush Steppe	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Montane-Foothill Deciduous Shrubland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Aspen Forest and Woodland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Bigtooth Maple Ravine Woodland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Foothill Limber Pine-Juniper Woodland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Ponderosa Pine Woodland	<i>Symphoricarpos oreophilus</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Gambel Oak-Mixed Montane Shrubland	<i>Symphoricarpos rotundifolius</i>	Shrub- Deciduous	2.7	3
Eastern Highland Rim Prairie and Barrens	<i>Symphyotrichum dumosum</i>	Forb	3	3.5
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Symphyotrichum subspicatum</i>	Forb	3	3.5
Atlantic Coastal Plain Clay-Based Carolina Bay Wetland	<i>Taxodium ascendens</i>	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	<i>Taxodium ascendens</i>	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Maritime Forest	<i>Taxodium ascendens</i>	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
South Florida Cypress Dome	Taxodium ascendens	Tree- Evergreen	3.2	2.2
South Florida Dwarf Cypress Savanna	Taxodium ascendens	Tree- Evergreen	3.2	2.2
Southeastern Coastal Plain Natural Lakeshore	Taxodium ascendens	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Nonriverine Cypress Dome	Taxodium ascendens	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	Taxodium ascendens	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Blackwater Stream Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Brownwater Stream Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Central Atlantic Coastal Plain Maritime Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Freshwater Tidal Wooded Swamp	Taxodium distichum	Tree- Evergreen	3.2	2.2
East Gulf Coastal Plain Large River Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Edwards Plateau Riparian	Taxodium distichum	Tree- Evergreen	3.2	2.2
Red River Large Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
South Florida Bayhead Swamp	Taxodium distichum	Tree- Evergreen	3.2	2.2
Southeastern Coastal Plain Natural Lakeshore	Taxodium distichum	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Southern Atlantic Coastal Plain Tidal Wooded Swamp	Taxodium distichum	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Blackwater River Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
Southern Coastal Plain Nonriverine Basin Swamp	Taxodium distichum	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Large River Floodplain Forest	Taxodium distichum	Tree- Evergreen	3.2	2.2
West Gulf Coastal Plain Near-Coast Large River Swamp	Taxodium distichum	Tree- Evergreen	3.2	2.2
Tamaulipan Ramadero	Tecoma stans	Shrub- Evergreen	2.7	2.4
Inter-Mountain Basins Active and Stabilized Dune	Tetradymia tetrameres	Shrub- Deciduous	2.7	3
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	Thalictrum fendleri	Forb	3	3.5
Edwards Plateau Cliff	Thelypteris ovata	Graminoid C ₃	3.6	3.6
Edwards Plateau Mesic Canyon	Thelypteris ovata	Graminoid C ₃	3.6	3.6
Central Interior Calcareous Cliff and Talus	Thuja occidentalis	Tree- Evergreen	3.2	2.2
Great Lakes Wooded Dune and Swale	Thuja occidentalis	Tree- Evergreen	3.2	2.2
Laurentian-Acadian Alkaline Conifer-Hardwood Swamp	Thuja occidentalis	Tree- Evergreen	3.2	2.2
Southern Interior Calcareous Cliff	Thuja occidentalis	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	Thuja plicata	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	Thuja plicata	Tree- Evergreen	3.2	2.2
North Pacific Hypermaritime Western Red-cedar- Western Hemlock Forest	Thuja plicata	Tree- Evergreen	3.2	2.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	Thuja plicata	Tree- Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Thuja plicata</i>	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	<i>Thuja plicata</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Conifer Swamp	<i>Thuja plicata</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	<i>Thuja plicata</i>	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Mesic Montane Mixed Conifer Forest	<i>Thuja plicata</i>	Tree- Evergreen	3.2	2.2
North-Central Appalachian Circumneutral Cliff and Talus	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
North-Central Interior Maple-Basswood Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
Ozark-Ouachita Mesic Hardwood Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
South-Central Interior Mesophytic Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
Southern and Central Appalachian Cove Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Limestone Forest	<i>Tilia americana</i>	Tree- Deciduous	3	4.2
Chihuahuan Gypsophilous Grassland and Steppe	<i>Tiquilia canescens</i>	Shrub	2.7	2.8
Chihuahuan Gypsophilous Grassland and Steppe	<i>Tiquilia hispiddissima</i>	Shrub	2.7	2.8
California Central Valley Mixed Oak Savanna	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
California Central Valley Riparian Woodland and Shrubland	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
California Coastal Live Oak Woodland and Savanna	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
California Mesic Chaparral	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
Mediterranean California Mixed Evergreen Forest	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
Northern California Coastal Scrub	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
Southern California Oak Woodland and Savanna	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	<i>Toxicodendron diversilobum</i>	Shrub	2.7	2.8
Central Appalachian River Floodplain	<i>Toxicodendron radicans</i>	Shrub	2.7	2.8
North-Central Appalachian Acidic Cliff and Talus	<i>Toxicodendron radicans</i>	Shrub	2.7	2.8
Southern Appalachian Montane Cliff and Talus	<i>Toxicodendron radicans</i>	Shrub	2.7	2.8
Edwards Plateau Cliff	<i>Toxicodendron radicans</i>	Shrub	2.7	2.8
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Toxicodendron vernix</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine-Montane Fen	<i>Trichophorum pumilum</i>	Graminoid C ₃	3.6	3.6
Edwards Plateau Upland Depression	<i>Tridens albescens</i>	Graminoid C ₄	3.6	4.1
Rocky Mountain Alpine Turf	<i>Trifolium dasyphyllum</i>	Forb	3	3.5
Rocky Mountain Alpine Fell-Field	<i>Trifolium parryi</i>	Forb	3	3.5
Rocky Mountain Alpine Turf	<i>Trifolium parryi</i>	Forb	3	3.5
Rocky Mountain Alpine-Montane Wet Meadow	<i>Trifolium parryi</i>	Forb	3	3.5
Temperate Pacific Tidal Salt and Brackish Marsh	<i>Triglochin maritima</i>	Graminoid C ₃	3.6	3.6
Texas Blackland Tallgrass Prairie	<i>Tripsacum dactyloides</i>	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie	<i>Tripsacum dactyloides</i>	Graminoid C ₄	3.6	4.1
Texas-Louisiana Coastal Prairie Pondshore	<i>Tripsacum dactyloides</i>	Graminoid C ₄	3.6	4.1
Eastern Great Plains Wet Meadow, Prairie and Marsh	<i>Tripsacum dactyloides</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Northern Rocky Mountain Subalpine-Upper Montane Grassland	Trisetum spicatum	Graminoid C ₃	3.6	3.6
Mediterranean California Alpine Dry Tundra	Trisetum spicatum	Graminoid C ₃	3.6	3.6
North Pacific Herbaceous Bald and Bluff	Triteleia hyacinthina	Forb	3	3.5
Rocky Mountain Alpine-Montane Wet Meadow	Trollius laxus	Forb	3	3.5
Laurentian-Acadian Pine-Hemlock-Hardwood Forest	Tsuga canadensis	Tree- Evergreen	3.2	2.2
North-Central Interior and Appalachian Rich Swamp	Tsuga canadensis	Tree- Evergreen	3.2	2.2
Southern and Central Appalachian Cove Forest	Tsuga canadensis	Tree- Evergreen	3.2	2.2
Southern Appalachian Northern Hardwood Forest	Tsuga canadensis	Tree- Evergreen	3.2	2.2
Appalachian (Hemlock)-Northern Hardwood Forest	Tsuga canadensis	Tree- Evergreen	3.2	2.2
California Coastal Redwood Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Dry-Mesic Silver Fir-Western Hemlock-Douglas-fir Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Hypermaritime Western Red-cedar-Western Hemlock Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Lowland Mixed Hardwood-Conifer Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Mesic Western Hemlock-Silver Fir Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Montane Riparian Woodland and Shrubland	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
North Pacific Seasonal Sitka Spruce Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
Northern Rocky Mountain Mesic Montane Mixed Conifer Forest	Tsuga heterophylla	Tree- Evergreen	3.2	2.2
Mediterranean California Red Fir Forest	Tsuga mertensiana	Tree- Evergreen	3.2	2.2
North Pacific Hardwood-Conifer Swamp	Tsuga mertensiana	Tree- Evergreen	3.2	2.2
North Pacific Maritime Mesic Subalpine Parkland	Tsuga mertensiana	Tree- Evergreen	3.2	2.2
North Pacific Mountain Hemlock Forest	Tsuga mertensiana	Tree- Evergreen	3.2	2.2
Northern California Mesic Subalpine Woodland	Tsuga mertensiana	Tree- Evergreen	3.2	2.2
Acadian Estuary Marsh	Typha angustifolia	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	Typha angustifolia	Graminoid C ₃	3.6	3.6
North Pacific Intertidal Freshwater Wetland	Typha angustifolia	Graminoid C ₃	3.6	3.6
Western Great Plains Open Freshwater Depression Wetland	Typha angustifolia	Graminoid C ₃	3.6	3.6
Western Great Plains Depressional Wetland Systems	Typha angustifolia	Graminoid C ₃	3.6	3.6
Florida Big Bend Fresh and Oligohaline Tidal Marsh	Typha domingensis	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Interdunal Swale Wetland	Typha domingensis	Graminoid C ₃	3.6	3.6
North American Arid West Emergent Marsh	Typha domingensis	Graminoid C ₃	3.6	3.6

Community	Species	Classification	Resistance	Resilience
Southeastern Coastal Plain Interdunal Wetland	<i>Typha domingensis</i>	Graminoid C ₃	3.6	3.6
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
Great Lakes Freshwater Estuary and Delta	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
Inter-Mountain Basins Interdunal Swale Wetland	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
Laurentian-Acadian Freshwater Marsh	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Floodplain	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
North-Central Interior Freshwater Marsh	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
Temperate Pacific Freshwater Emergent Marsh	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
Texas Coast Fresh and Oligohaline Tidal Marsh	<i>Typha latifolia</i>	Graminoid C ₃	3.6	3.6
South-Central Interior / Upper Coastal Plain Flatwoods	<i>Ulmus alata</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Ulmus alata</i>	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	<i>Ulmus americana</i>	Tree- Deciduous	3	4.2
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	<i>Ulmus americana</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Ulmus americana</i>	Tree- Deciduous	3	4.2
Southern Coastal Plain Hydric Hammock	<i>Ulmus americana</i>	Tree- Deciduous	3	4.2
Great Plains Wooded Draw and Ravine	<i>Ulmus americana</i>	Tree- Deciduous	3	4.2
South-Central Interior / Upper Coastal Plain Wet Flatwoods	<i>Ulmus americana</i>	Tree- Deciduous	3	4.2
Edwards Plateau Dry-Mesic Slope Forest and Woodland	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Edwards Plateau Floodplain Terrace	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Edwards Plateau Limestone Savanna and Woodland	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Edwards Plateau Riparian	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Floodplain Forest	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Southeastern Great Plains Riparian Forest	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Tamaulipan Floodplain	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Tamaulipan Palm Grove Riparian Forest	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Llano Uplift Acidic Forest, Woodland and Glade	<i>Ulmus crassifolia</i>	Tree- Deciduous	3	4.2
Great Plains Wooded Draw and Ravine	<i>Ulmus rubra</i>	Tree- Deciduous	3	4.2
California Coastal Live Oak Woodland and Savanna	<i>Umbellularia californica</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mesic Serpentine Woodland and Chaparral	<i>Umbellularia californica</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Mixed Evergreen Forest	<i>Umbellularia californica</i>	Tree- Evergreen	3.2	2.2
Mediterranean California Serpentine Foothill and Lower Montane Riparian Woodland and Seep	<i>Umbellularia californica</i>	Tree- Evergreen	3.2	2.2
Edwards Plateau Cliff	<i>Unghadia speciosa</i>	Shrub- Deciduous	2.7	3
Florida Panhandle Beach Vegetation	<i>Uniola paniculata</i>	Graminoid C ₄	3.6	4.1
South Florida Shell Hash Beach	<i>Uniola paniculata</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Dune and Maritime Grassland	<i>Uniola paniculata</i>	Graminoid C ₄	3.6	4.1
Southern Atlantic Coastal Plain Florida Beach	<i>Uniola paniculata</i>	Graminoid C ₄	3.6	4.1
Southwest Florida Beach	<i>Uniola paniculata</i>	Graminoid C ₄	3.6	4.1
Southwest Florida Dune and Coastal Grassland	<i>Uniola paniculata</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Floodplain	<i>Urochloa maxima</i>	Graminoid C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Tamaulipan Mixed Deciduous Thornscrub	<i>Urochloa maxima</i>	Graminoid C ₄	3.6	4.1
Tamaulipan Ramadero	<i>Urochloa maxima</i>	Graminoid C ₄	3.6	4.1
Laurentian Jack Pine-Red Pine Forest	<i>Vaccinium angustifolium</i>	Shrub	2.7	2.8
Laurentian Pine-Oak Barrens	<i>Vaccinium angustifolium</i>	Shrub	2.7	2.8
Northern Atlantic Coastal Plain Heathland and Grassland	<i>Vaccinium angustifolium</i>	Shrub	2.7	2.8
Northern Atlantic Coastal Plain Pitch Pine Barrens	<i>Vaccinium angustifolium</i>	Shrub	2.7	2.8
Cumberland Sandstone Glade and Barrens	<i>Vaccinium arboreum</i>	Shrub- Evergreen	2.7	2.4
Southern Piedmont Granite Flatrock and Outcrop	<i>Vaccinium arboreum</i>	Shrub- Evergreen	2.7	2.4
Northern Rocky Mountain Western Larch Savanna	<i>Vaccinium caespitosum</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Alpine Dwarf-Shrubland	<i>Vaccinium caespitosum</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Basin Swamp and Wet Hardwood Forest	<i>Vaccinium corymbosum</i>	Shrub- Deciduous	2.7	3
Northern Atlantic Coastal Plain Pitch Pine Lowland	<i>Vaccinium corymbosum</i>	Shrub- Deciduous	2.7	3
Florida Dry Prairie	<i>Vaccinium darrowii</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Mesic Subalpine Parkland	<i>Vaccinium deliciosum</i>	Shrub- Deciduous	2.7	3
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Vaccinium deliciosum</i>	Shrub- Deciduous	2.7	3
Southern Appalachian Granitic Dome	<i>Vaccinium erythrocarpum</i>	Shrub- Deciduous	2.7	3
North Pacific Montane Shrubland	<i>Vaccinium membranaceum</i>	Shrub- Deciduous	2.7	3
North Pacific Wooded Volcanic Flowage	<i>Vaccinium membranaceum</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Vaccinium membranaceum</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Vaccinium membranaceum</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	<i>Vaccinium membranaceum</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	<i>Vaccinium membranaceum</i>	Shrub- Deciduous	2.7	3
Florida Dry Prairie	<i>Vaccinium myrsinites</i>	Shrub- Evergreen	2.7	2.4
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Vaccinium myrtillus</i>	Shrub- Deciduous	2.7	3
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	<i>Vaccinium myrtillus</i>	Shrub- Deciduous	2.7	3
North Pacific Mesic Western Hemlock-Silver Fir Forest	<i>Vaccinium ovalifolium</i>	Shrub- Deciduous	2.7	3
North Pacific Hypermaritime Shrub and Herbaceous Headland	<i>Vaccinium ovatum</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Coastal Sand Dune and Strand	<i>Vaccinium ovatum</i>	Shrub- Evergreen	2.7	2.4
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	<i>Vaccinium ovatum</i>	Shrub- Evergreen	2.7	2.4
Northern Atlantic Coastal Plain Pitch Pine Barrens	<i>Vaccinium pallidum</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Deciduous Shrubland	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3
Northern Rocky Mountain Subalpine Woodland and Parkland	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Alpine Dwarf-Shrubland	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Lodgepole Pine Forest	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Poor-Site Lodgepole Pine Forest	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3
Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3

Community	Species	Classification	Resistance	Resilience
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	<i>Vaccinium scoparium</i>	Shrub- Deciduous	2.7	3
Acadian-Appalachian Alpine Tundra	<i>Vaccinium uliginosum</i>	Shrub	2.7	2.8
North Pacific Bog and Fen	<i>Vaccinium uliginosum</i>	Shrub- Deciduous	2.7	3
North Pacific Maritime Mesic Subalpine Parkland	<i>Valeriana sitchensis</i>	Forb	3	3.5
Temperate Pacific Subalpine-Montane Wet Meadow	<i>Veratrum californicum</i>	Forb	3	3.5
Northern California Claypan Vernal Pool	<i>Veronica peregrina</i>	Forb	3	3.5
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	<i>Viburnum dentatum</i>	Shrub- Deciduous	2.7	3
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	<i>Viburnum nudum</i>	Shrub- Deciduous	2.7	3
Southern and Central Appalachian Bog and Fen	<i>Viburnum nudum</i>	Shrub- Deciduous	2.7	3
Mojave Mid-Elevation Mixed Desert Scrub	<i>Viguiera parishii</i>	Shrub- Deciduous	2.7	3
North Pacific Coastal Cliff and Bluff	<i>Viola adunca</i>	Forb	3	3.5
California Central Valley Riparian Woodland and Shrubland	<i>Vitis californica</i>	Shrub	2.7	2.8
California Northern Coastal Grassland	<i>Vulpia myuros</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	<i>Woodwardia areolata</i>	Graminoid C ₃	3.6	3.6
Southern Coastal Plain Nonriverine Basin Swamp	<i>Woodwardia virginica</i>	Graminoid C ₃	3.6	3.6
North Pacific Montane Shrubland	<i>Xerophyllum tenax</i>	Forb	3	3.5
North Pacific Wooded Volcanic Flowage	<i>Xerophyllum tenax</i>	Forb	3	3.5
Northern Rocky Mountain Western Larch Savanna	<i>Xerophyllum tenax</i>	Forb	3	3.5
Southern California Coast Ranges Cliff and Canyon	<i>Xylococcus bicolor</i>	Shrub- Evergreen	2.7	2.4
Mojave Mid-Elevation Mixed Desert Scrub	<i>Yucca brevifolia</i>	Shrub	2.7	2.8
Rocky Mountain Lower Montane-Foothill Shrubland	<i>Yucca glauca</i>	Shrub	2.7	2.8
Mojave Mid-Elevation Mixed Desert Scrub	<i>Yucca schidigera</i>	Shrub	2.7	2.8
Southern California Coastal Scrub	<i>Yucca whipplei</i>	Shrub	2.7	2.8
South Florida Hardwood Hammock	<i>Zanthoxylum fagara</i>	Shrub- Evergreen	2.7	2.4
Atlantic Coastal Plain Peatland Pocosin and Canebrake	<i>Zenobia pulverulenta</i>	Shrub- Evergreen	2.7	2.4
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Zizania aquatica</i>	Graminoid C ₃	3.6	3.6
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Zizania aquatica</i>	Graminoid C ₃	3.6	3.6
Florida Big Bend Fresh and Oligohaline Tidal Marsh	<i>Zizaniopsis miliacea</i>	Graminoid C ₃	3.6	3.6
Gulf Coast Chenier Plain Fresh and Oligohaline Tidal Marsh	<i>Zizaniopsis miliacea</i>	Graminoid C ₃	3.6	3.6
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	<i>Zizaniopsis miliacea</i>	Graminoid C ₃	3.6	3.6
South Florida Slough, Gator Hole and Willow Head	<i>Zizaniopsis miliacea</i>	Graminoid C ₃	3.6	3.6
Western Great Plains Mesquite Woodland and Shrubland	<i>Ziziphus obtusifolia</i>	Shrub- Deciduous	2.7	3

Appendix C: Dominant Species' Resistance and Resilience Values from Küchler Potential Vegetation Community Types

Table C-1. Dominant Species' Resistance and Resilience Values from Küchler Potential Vegetation Community Types.

Community	Species	Classification	Resistance	Resilience
Silver fir - Douglas-fir forest	<i>Abies amabilis</i>	Tree - Evergreen	3.2	2.2
Northern hardwoods - fir forest	<i>Abies balsamea</i>	Tree - Evergreen	3.2	2.2
Great lakes spruce - fir forest	<i>Abies balsamea</i>	Tree - Evergreen	3.2	2.2
Northeastern spruce - fir forest	<i>Abies balsamea</i>	Tree - Evergreen	3.2	2.2
Spruce - fir - Douglas-fir forest	<i>Abies concolor</i>	Tree - Evergreen	3.2	2.2
Mixed conifer forest	<i>Abies concolor</i>	Tree - Evergreen	3.2	2.2
Northeastern spruce - fir forest	<i>Abies fraseri</i>	Tree - Evergreen	3.2	2.2
Grand fir - Douglas-fir forest	<i>Abies grandis</i>	Tree - Evergreen	3.2	2.2
Western spruce - fir forest	<i>Abies lasiocarpa</i>	Tree - Evergreen	3.2	2.2
Fir - hemlock forest	<i>Abies lasiocarpa</i>	Tree - Evergreen	3.2	2.2
Southwestern spruce - fir forest	<i>Abies lasiocarpa</i>	Tree - Evergreen	3.2	2.2
Red fir forest	<i>Abies magnifica</i>	Tree - Evergreen	3.2	2.2
Mesquite - acacia savanna	<i>Acacia rigidula</i>	Shrub - Deciduous	2.7	3
Beech - maple forest	<i>Acer saccharum</i>	Tree - Deciduous	3	4.2
Mixed mesophytic forest	<i>Acer saccharum</i>	Tree - Deciduous	3	4.2
Northern hardwoods	<i>Acer saccharum</i>	Tree - Deciduous	3	4.2
Northern hardwoods - fir forest	<i>Acer saccharum</i>	Tree - Deciduous	3	4.2
Northern hardwood - spruce forest	<i>Acer saccharum</i>	Tree - Deciduous	3	4.2
Maple - basswood forest	<i>Acer saccharum</i>	Tree - Deciduous	3	4.2
Chaparral	<i>Adenostoma fasciculatum</i>	Shrub - Evergreen	2.7	2.4
Mixed mesophytic forest	<i>Aesculus flava</i>	Tree - Deciduous	3	4.2
Alpine meadows and barren	<i>Agrostis scabra</i>	Graminoid - C ₃	3.6	3.6
Alder - ash forest	<i>Alnus rubra</i>	Shrub - Deciduous	2.7	3
Creosote bush - bur sage	<i>Ambrosia dumosa</i>	Shrub - Deciduous	2.7	3
Wheatgrass - bluestem - needlegrass	<i>Andropogon gerardi</i>	Graminoid - C ₄	3.6	4.1
Bluestem prairie	<i>Andropogon gerardi</i>	Graminoid - C ₄	3.6	4.1
Nebraska sandhills prairie	<i>Andropogon gerardi</i>	Graminoid - C ₄	3.6	4.1
Oak savanna	<i>Andropogon gerardi</i>	Graminoid - C ₄	3.6	4.1
Sandsage - bluestem prairie	<i>Andropogon hallii</i>	Graminoid - C ₄	3.6	4.1
Nebraska sandhills prairie	<i>Andropogon hallii</i>	Graminoid - C ₄	3.6	4.1
Mesquite - acacia savanna	<i>Andropogon littoralis</i>	Graminoid - C ₄	3.6	4.1
Mesquite - live oak savanna	<i>Andropogon littoralis</i>	Graminoid - C ₄	3.6	4.1
Sea oats prairie	<i>Andropogon littoralis</i>	Graminoid - C ₄	3.6	4.1
Bluestem - sacahuista prairie	<i>Andropogon littoralis</i>	Graminoid - C ₄	3.6	4.1
California mixed evergreen forest	<i>Arbutus menziesii</i>	Tree - Evergreen	3.2	2.2
Montane chaparra	<i>Arctostaphylos patula</i>	Shrub - Evergreen	2.7	2.4
Chaparral	<i>Arctostaphylos</i> spp.	Shrub - Evergreen	2.7	2.4
Cypress savanna	<i>Aristida affinis</i>	Graminoid - C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Galleta - three awn shrub-steppe	<i>Aristida longiseta</i>	Graminoid - C ₄	3.6	4.1
Cypress savanna	<i>Aristida patula</i>	Graminoid - C ₄	3.6	4.1
Palmetto prairie	<i>Aristida stricta</i>	Graminoid - C ₄	3.6	4.1
Galleta - three awn shrub-steppe	<i>Artemisia filifolia</i>	Shrub - Deciduous	2.7	3
Sandsage - bluestem prairie	<i>Artemisia filifolia</i>	Shrub - Deciduous	2.7	3
Juniper steppe woodland	<i>Artemisia tridentata</i>	Shrub - Evergreen	2.7	2.4
Great Basin sagebrush	<i>Artemisia tridentata</i>	Shrub - Evergreen	2.7	2.4
Sagebrush steppe	<i>Artemisia tridentata</i>	Shrub - Evergreen	2.7	2.4
Wheatgrass - needlegrass shrub-steppe	<i>Artemisia tridentata</i>	Shrub - Evergreen	2.7	2.4
Saltbush - greasewood	<i>Atriplex confertifolia</i>	Shrub - Deciduous	2.7	3
Mangrove	<i>Avicennia germinans</i>	Shrub - Evergreen	2.7	2.4
Northern hardwoods	<i>Betula allegheniensis</i>	Tree - Deciduous	3	4.2
Northern hardwood - spruce forest	<i>Betula allegheniensis</i>	Tree - Deciduous	3	4.2
Northern hardwoods - fir forest	<i>Betula papyrifera</i>	Tree - Deciduous	3	4.2
Bluestem - grama prairie	<i>Bouteloua curtipendula</i>	Graminoid - C ₄	3.6	4.1
Grama - tobosa shrub-steppe	<i>Bouteloua eriopoda</i>	Graminoid - C ₄	3.6	4.1
Grama - galleta steppe	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Grama - tobosa prairie	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Grama - needlegrass - wheatgrass	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Grama - buffalo grass	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Wheatgrass - needlegrass	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Wheatgrass - grama - buffalo grass	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Bluestem - grama prairie	<i>Bouteloua gracilis</i>	Graminoid - C ₄	3.6	4.1
Sandsage - bluestem prairie	<i>Bouteloua hirsuta</i>	Graminoid - C ₄	3.6	4.1
Grama - buffalo grass	<i>Buchloë dactyloides</i>	Graminoid - C ₄	3.6	4.1
Wheatgrass - grama - buffalo grass	<i>Buchloë dactyloides</i>	Graminoid - C ₄	3.6	4.1
Mesquite - buffalo grass	<i>Buchloë dactyloides</i>	Graminoid - C ₄	3.6	4.1
Fayette prairie	<i>Buchloë dactyloides</i>	Graminoid - C ₄	3.6	4.1
Nebraska sandhills prairie	<i>Calamovilfa longifolia</i>	Graminoid - C ₄	3.6	4.1
Alpine meadows and barren	<i>Carex</i> spp.	Graminoid - C ₃	3.6	3.6
Fescue - oatgrass	<i>Carex tumulicola</i>	Graminoid - C ₃	3.6	3.6
Oak - hickory forest	<i>Carya cordiformis</i>	Tree - Deciduous	3	4.2
Oak - hickory forest	<i>Carya ovata</i>	Tree - Deciduous	3	4.2
Oak - hickory - pine forest	<i>Carya ovata</i>	Tree - Deciduous	3	4.2
Montane chaparra	<i>Ceanothus cordulatus</i>	Shrub - Evergreen	2.7	2.4
Chaparral	<i>Ceanothus</i> spp.	Shrub - Evergreen	2.7	2.4
Cedar glades	<i>Celtis laevigata</i>	Tree - Deciduous	3	4.2
Mountain-mahogany - oak scrub	<i>Cercocarpus ledifolius</i>	Shrub - Evergreen	2.7	2.4
California mixed evergreen forest	<i>Chrysolepis chrysophylla</i>	Tree - Evergreen	3.2	2.2
Montane chaparra	<i>Chrysolepis sempervirens</i>	Shrub - Evergreen	2.7	2.4
Marl everglades	<i>Cladium mariscus</i>	Graminoid - C ₃	3.6	3.6
Everglades	<i>Cladium mariscus</i>	Graminoid - C ₃	3.6	3.6
Black - brush	<i>Coleogyne ramosissima</i>	Shrub - Deciduous	2.7	3
Fescue - oatgrass	<i>Danthonia californica</i>	Graminoid - C ₃	3.6	3.6
Alpine meadows and barren	<i>Deschampsia caespitosa</i>	Graminoid - C ₃	3.6	3.6
Fescue - oatgrass	<i>Deschampsia holciformis</i>	Graminoid - C ₃	3.6	3.6
Northern cordgrass prairie	<i>Distichlis spicata</i>	Graminoid - C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Galleta - three awn shrub-steppe	<i>Ephedra viridis</i>	Shrub - Evergreen	2.7	2.4
Coastal sagebrush	<i>Eriogonum fasciculatum</i>	Shrub - Evergreen	2.7	2.4
Beech - maple forest	<i>Fagus grandifolia</i>	Tree - Deciduous	3	4.2
Mixed mesophytic forest	<i>Fagus grandifolia</i>	Tree - Deciduous	3	4.2
Northern hardwoods	<i>Fagus grandifolia</i>	Tree - Deciduous	3	4.2
Northern hardwood - spruce forest	<i>Fagus grandifolia</i>	Tree - Deciduous	3	4.2
Southern mixed forest	<i>Fagus grandifolia</i>	Tree - Deciduous	3	4.2
Fescue - oatgrass	<i>Festuca idahoensis</i>	Graminoid - C ₃	3.6	3.6
Fescue - wheatgrass	<i>Festuca idahoensis</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass bluegrass	<i>Festuca idahoensis</i>	Graminoid - C ₃	3.6	3.6
Foothills prairie	<i>Festuca idahoensis</i>	Graminoid - C ₃	3.6	3.6
Foothills prairie	<i>Festuca scabrella</i>	Graminoid - C ₃	3.6	3.6
Alpine meadows and barren	<i>Festuca viridula</i>	Graminoid - C ₃	3.6	3.6
Creosote bush - tarbush	<i>Flourensia cernua</i>	Shrub - Deciduous	2.7	3
Trans - pecos shrub savanna	<i>Flourensia cernua</i>	Shrub - Deciduous	2.7	3
Alder - ash forest	<i>Fraxinus latifolia</i>	Tree - Deciduous	3	4.2
Elm - ash forest	<i>Fraxinus pennsylvanica</i>	Tree - Deciduous	3	4.2
Pine - cypress forest	<i>Hesperocyparis goveniana</i>	Tree - Evergreen	3.2	2.2
Pine - cypress forest	<i>Hesperocyparis macrocarpa</i>	Tree - Evergreen	3.2	2.2
Wheatgrass - needlegrass shrub-steppe	<i>Hesperostipa comata</i>	Graminoid - C ₃	3.6	3.6
Foothills prairie	<i>Hesperostipa comata</i>	Graminoid - C ₃	3.6	3.6
Grama - needlegrass - wheatgrass	<i>Hesperostipa comata</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass - needlegrass	<i>Hesperostipa comata</i>	Graminoid - C ₃	3.6	3.6
Nebraska sandhills prairie	<i>Hesperostipa comata</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass - bluestem - needlegrass	<i>Hesperostipa spartea</i>	Graminoid - C ₃	3.6	3.6
Mesquite savanna	<i>Hilaria belangeri</i>	Graminoid - C ₄	3.6	4.1
Grama - galleta steppe	<i>Hilaria jamesii</i>	Graminoid - C ₄	3.6	4.1
Galleta - three awn shrub-steppe	<i>Hilaria jamesii</i>	Graminoid - C ₄	3.6	4.1
Grama - tobosa prairie	<i>Hilaria mutica</i>	Graminoid - C ₄	3.6	4.1
Grama - tobosa shrub-steppe	<i>Hilaria mutica</i>	Graminoid - C ₄	3.6	4.1
Mesquite savanna	<i>Hilaria mutica</i>	Graminoid - C ₄	3.6	4.1
Pocosin	<i>Ilex glabra</i>	Shrub - Evergreen	2.7	2.4
Juniper - oak savanna	<i>Juniperus ashei</i>	Tree - Evergreen	3.2	2.2
Oak - juniper woodland	<i>Juniperus deppeana</i>	Tree - Evergreen	3.2	2.2
Juniper - pinyon woodland	<i>Juniperus monosperma</i>	Tree - Evergreen	3.2	2.2
Oak - juniper woodland	<i>Juniperus monosperma</i>	Tree - Evergreen	3.2	2.2
Juniper steppe woodland	<i>Juniperus occidentalis</i>	Tree - Evergreen	3.2	2.2
Juniper - pinyon woodland	<i>Juniperus osteosperma</i>	Tree - Evergreen	3.2	2.2
Cedar glades	<i>Juniperus virginiana</i>	Tree - Evergreen	3.2	2.2
Blackbelt	<i>Juniperus virginiana</i>	Tree - Evergreen	3.2	2.2
Conifer bog	<i>Larix laricina</i>	Tree - Evergreen	3.2	2.2
Creosote bush	<i>Larrea divaricata</i>	Shrub - Evergreen	2.7	2.4
Creosote bush - bur sage	<i>Larrea divaricata</i>	Shrub - Evergreen	2.7	2.4
Creosote bush - tarbush	<i>Larrea divaricata</i>	Shrub - Evergreen	2.7	2.4
Ceniza shrub	<i>Larrea divaricata</i>	Shrub - Evergreen	2.7	2.4
Grama - tobosa shrub-steppe	<i>Larrea divaricata</i>	Shrub - Evergreen	2.7	2.4
Trans - pecos shrub savanna	<i>Larrea divaricata</i>	Shrub - Evergreen	2.7	2.4

Community	Species	Classification	Resistance	Resilience
Ceniza shrub	<i>Leucophyllum frutescens</i>	Shrub - Evergreen	2.7	2.4
Mixed conifer forest	<i>Libocedrus decurrens</i>	Tree - Evergreen	3.2	2.2
Southern mixed forest	<i>Liquidambar styraciflua</i>	Tree - Deciduous	3	4.2
Blackbelt	<i>Liquidambar styraciflua</i>	Tree - Deciduous	3	4.2
Mixed mesophytic forest	<i>Liriodendron tulipifera</i>	Tree - Deciduous	3	4.2
California mixed evergreen forest	<i>Lithocarpus densiflorus</i>	Shrub - Evergreen	2.7	2.4
Alpine meadows and barren	<i>Luzula spicata</i>	Graminoid - C ₃	3.6	3.6
Southern mixed forest	<i>Magnolia grandiflora</i>	Tree - Evergreen	3.2	2.2
Everglades	<i>Magnolia virginiana</i>	Tree - Evergreen	3.2	2.2
California steppe	<i>Nassella cernua</i>	Graminoid - C ₃	3.6	3.6
Blackland prairie	<i>Nassella leucotricha</i>	Graminoid - C ₃	3.6	3.6
California steppe	<i>Nassella pulchra</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass - needlegrass	<i>Nassella viridula</i>	Graminoid - C ₃	3.6	3.6
Southern floodplain forest	<i>Nyssa aquatica</i>	Tree - Deciduous	3	4.2
Palo verde - cactus shrub	<i>Opuntia</i> spp.	Forb	3	3.5
Bluestem prairie	<i>Panicum virgatum</i>	Graminoid - C ₄	3.6	4.1
Palo verde - cactus shrub	<i>Parkinsonia microphyllum</i>	Shrub - Deciduous	2.7	3
Wheatgrass - needlegrass shrub-steppe	<i>Pascopyrum smithii</i>	Graminoid - C ₃	3.6	3.6
Grass - needlegrass - wheatgrass	<i>Pascopyrum smithii</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass - needlegrass	<i>Pascopyrum smithii</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass - bluestem - needlegrass	<i>Pascopyrum smithii</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass - grama - buffalo grass	<i>Pascopyrum smithii</i>	Graminoid - C ₃	3.6	3.6
Marl everglades	<i>Persea borbonia</i>	Shrub - Evergreen	2.7	2.4
Everglades	<i>Persea borbonia</i>	Shrub - Evergreen	2.7	2.4
Alpine meadows and barren	<i>Phleum alpinum</i>	Graminoid - C ₃	3.6	3.6
Western spruce - fir forest	<i>Picea engelmannii</i>	Tree - Evergreen	3.2	2.2
Southwestern spruce - fir forest	<i>Picea engelmannii</i>	Tree - Evergreen	3.2	2.2
Great lakes spruce - fir forest	<i>Picea glauca</i>	Tree - Evergreen	3.2	2.2
Conifer bog	<i>Picea mariana</i>	Tree - Evergreen	3.2	2.2
Spruce - fir - Douglas-fir forest	<i>Picea pungens</i>	Tree - Evergreen	3.2	2.2
Northern hardwood - spruce forest	<i>Picea rubens</i>	Tree - Evergreen	3.2	2.2
Northeastern spruce - fir forest	<i>Picea rubens</i>	Tree - Evergreen	3.2	2.2
Northeastern spruce - fir forest	<i>Picea rubens</i>	Tree - Evergreen	3.2	2.2
Spruce - cedar - hemlock forest	<i>Picea sitchensis</i>	Tree - Evergreen	3.2	2.2
Lodgepole pine - subalpine forest	<i>Pinus albicaulis</i>	Tree - Evergreen	3.2	2.2
Lodgepole pine - subalpine forest	<i>Pinus alfouriana</i>	Tree - Evergreen	3.2	2.2
Great Basin pine forest	<i>Pinus aristata</i>	Tree - Evergreen	3.2	2.2
Great lakes pine forest	<i>Pinus banksiana</i>	Tree - Evergreen	3.2	2.2
Sand pine scrub	<i>Pinus clausa</i>	Tree - Evergreen	3.2	2.2
Lodgepole pine - subalpine forest	<i>Pinus contorta</i>	Tree - Evergreen	3.2	2.2
Pine - cypress forest	<i>Pinus contorta</i>	Tree - Evergreen	3.2	2.2
California oak - woods	<i>Pinus Coulteri</i>	Tree - Evergreen	3.2	2.2
Oak - hickory - pine forest	<i>Pinus echinata</i>	Tree - Evergreen	3.2	2.2
Juniper - pinyon woodland	<i>Pinus edulis</i>	Tree - Evergreen	3.2	2.2
Sub - tropical pine forest	<i>Pinus elliottii</i>	Tree - Evergreen	3.2	2.2
Great Basin pine forest	<i>Pinus flexilis</i>	Tree - Evergreen	3.2	2.2
Mixed conifer forest	<i>Pinus lambertiana</i>	Tree - Evergreen	3.2	2.2

Community	Species	Classification	Resistance	Resilience
Juniper - pinyon woodland	<i>Pinus monophylla</i>	Tree - Evergreen	3.2	2.2
Cedar - hemlock - pine forest	<i>Pinus monticola</i>	Tree - Evergreen	3.2	2.2
Pine - cypress forest	<i>Pinus muricata</i>	Tree - Evergreen	3.2	2.2
Ponderosa - shrub forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Western ponderosa forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Eastern ponderosa forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Black Hills pine forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Pine - Douglas-fir forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Arizona pine forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Mixed conifer forest	<i>Pinus ponderosa</i>	Tree - Evergreen	3.2	2.2
Pine - cypress forest	<i>Pinus radiata</i>	Tree - Evergreen	3.2	2.2
Great lakes pine forest	<i>Pinus resinosa</i>	Tree - Evergreen	3.2	2.2
Northeastern oak - pine forest	<i>Pinus rigida</i>	Tree - Evergreen	3.2	2.2
California oak - woods	<i>Pinus sabiniana</i>	Tree - Evergreen	3.2	2.2
Pocosin	<i>Pinus serotina</i>	Tree - Evergreen	3.2	2.2
Great lakes pine forest	<i>Pinus strobus</i>	Tree - Evergreen	3.2	2.2
Oak - hickory - pine forest	<i>Pinus taeda</i>	Tree - Evergreen	3.2	2.2
Southern mixed forest	<i>Pinus taeda</i>	Tree - Evergreen	3.2	2.2
Wheatgrass - needlegrass shrub-steppe	<i>Poa arida</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass bluegrass	<i>Poa secunda</i>	Graminoid - C ₃	3.6	3.6
Alpine meadows and barren	<i>Poa spp.</i>	Graminoid - C ₃	3.6	3.6
Northern floodplain forest	<i>Populus deltoides</i>	Tree - Deciduous	3	4.2
Ceniza shrub	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Mesquite savanna	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Mesquite - acacia savanna	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Mesquite - live oak savanna	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Mesquite - buffalo grass	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Mesquite - oak savanna	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Mesquite bosques	<i>Prosopis juliflora</i>	Shrub - Deciduous	2.7	3
Douglas-fir forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Grand fir - Douglas-fir forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Pine - Douglas-fir forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Cedar - hemlock - Douglas-fir forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Spruce - fir - Douglas-fir forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
California mixed evergreen forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Silver fir - Douglas-fir forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Mixed conifer forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Redwood forest	<i>Pseudotsuga menziesii</i>	Tree - Evergreen	3.2	2.2
Juniper steppe woodland	<i>Psuedoroegneria spicata</i>	Graminoid - C ₃	3.6	3.6
Fescue - wheatgrass	<i>Psuedoroegneria spicata</i>	Graminoid - C ₃	3.6	3.6
Wheatgrass bluegrass	<i>Psuedoroegneria spicata</i>	Graminoid - C ₃	3.6	3.6
Sagebrush steppe	<i>Psuedoroegneria spicata</i>	Graminoid - C ₃	3.6	3.6
Foothills prairie	<i>Psuedoroegneria spicata</i>	Graminoid - C ₃	3.6	3.6
California oak - woods	<i>Quercus agrifolia</i>	Tree - Evergreen	3.2	2.2
Oak - hickory forest	<i>Quercus alba</i>	Tree - Deciduous	3	4.2
Mixed mesophytic forest	<i>Quercus alba</i>	Tree - Deciduous	3	4.2
Appalachian oak forest	<i>Quercus alba</i>	Tree - Deciduous	3	4.2

Community	Species	Classification	Resistance	Resilience
Oak - hickory - pine forest	Quercus alba	Tree - Deciduous	3	4.2
Southern mixed forest	Quercus alba	Tree - Deciduous	3	4.2
Sand pine scrub	Quercus chapmanii	Tree - Evergreen	3.2	2.2
California mixed evergreen forest	Quercus chrysolepis	Tree - Evergreen	3.2	2.2
California oak - woods	Quercus chrysolepis	Tree - Evergreen	3.2	2.2
Northeastern oak - pine forest	Quercus coccinea	Tree - Deciduous	3	4.2
California oak - woods	Quercus douglasii	Tree - Deciduous	3	4.2
Oak - juniper woodland	Quercus emoryi	Tree - Evergreen	3.2	2.2
Mountain-mahogany - oak scrub	Quercus gambelii	Shrub - Deciduous	2.7	3
Oregon oak woods	Quercus garryana	Tree - Deciduous	3	4.2
Southern mixed forest	Quercus laurifolia	Tree - Evergreen	3.2	2.2
California oak - woods	Quercus lobata	Tree - Deciduous	3	4.2
Oak savanna	Quercus macrocarpa	Tree - Deciduous	3	4.2
Cross timbers	Quercus marilandica	Tree - Deciduous	3	4.2
Shinnery	Quercus mohriana	Tree - Evergreen	3.2	2.2
Sand pine scrub	Quercus myrtifolia	Tree - Evergreen	3.2	2.2
Oak - juniper woodland	Quercus oblongifolia	Tree - Evergreen	3.2	2.2
Oak - hickory forest	Quercus rubra	Tree - Deciduous	3	4.2
Mixed mesophytic forest	Quercus rubra	Tree - Deciduous	3	4.2
Appalachian oak forest	Quercus rubra	Tree - Deciduous	3	4.2
Southern floodplain forest	Quercus spp.	Tree - Deciduous	3	4.2
Mesquite - oak savanna	Quercus spp.	Tree - Deciduous	3	4.2
Oak - hickory - pine forest	Quercus stellata	Tree - Deciduous	3	4.2
Cedar glades	Quercus stellata	Tree - Deciduous	3	4.2
Cross timbers	Quercus stellata	Tree - Deciduous	3	4.2
Blackbelt	Quercus stellata	Tree - Deciduous	3	4.2
Oak - hickory forest	Quercus velutina	Tree - Deciduous	3	4.2
Northeastern oak - pine forest	Quercus velutina	Tree - Deciduous	3	4.2
Juniper - oak savanna	Quercus virginiana	Tree - Evergreen	3.2	2.2
Sand pine scrub	Quercus virginiana	Tree - Evergreen	3.2	2.2
Mesquite - live oak savanna	Quercus virginiana	Tree - Evergreen	3.2	2.2
Live oak - sea oats	Quercus virginiana	Tree - Evergreen	3.2	2.2
California mixed evergreen forest	Quercus wislizenii	Tree - Evergreen	3.2	2.2
California oak - woods	Quercus wislizenii	Tree - Evergreen	3.2	2.2
Mangrove	Rhizophora mangle	Shrub - Evergreen	2.7	2.4
Northern floodplain forest	Salix nigra	Shrub - Deciduous	2.7	3
Coastal sagebrush	Salvia apiana	Shrub	2.7	2.8
Coastal sagebrush	Salvia mellifera	Shrub - Deciduous	2.7	3
Saltbush - greasewood	Sarcobatus vermiculatus	Shrub - Deciduous	2.7	3
Bluestem - grama prairie	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Sandsage - bluestem prairie	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Shinnery	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Bluestem prairie	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Nebraska sandhills prairie	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Blackland prairie	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Oak savanna	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Cross timbers	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1

Community	Species	Classification	Resistance	Resilience
Juniper - oak savanna	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Mesquite - oak savanna	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Fayette prairie	Schizachyrium scoparium	Graminoid - C ₄	3.6	4.1
Tule marshes	Scirpus acutus	Graminoid - C ₃	3.6	3.6
Tule marshes	Scirpus californicus	Graminoid - C ₃	3.6	3.6
Tule marshes	Scirpus olneyi	Graminoid - C ₃	3.6	3.6
Tule marshes	Scirpus validus	Graminoid - C ₃	3.6	3.6
Redwood forest	Sequoia sempervirens	Tree - Evergreen	3.2	2.2
Palmetto prairie	Serenoa repens	Shrub - Deciduous	2.7	3
Mesquite - acacia savanna	Setaria macrostachya	Graminoid - C ₄	3.6	4.1
Bluestem prairie	Sorghastrum nutans	Graminoid - C ₄	3.6	4.1
Northern cordgrass prairie	Spartina alterniflora	Graminoid - C ₄	3.6	4.1
Southern cordgrass prairie	Spartina alterniflora	Graminoid - C ₄	3.6	4.1
Northern cordgrass prairie	Spartina patens	Graminoid - C ₄	3.6	4.1
Bluestem - sacahuista prairie	Spartina spartinae	Graminoid - C ₄	3.6	4.1
Cedar glades	Sporobolus neglectus	Graminoid - C ₄	3.6	4.1
Southern floodplain forest	Taxodium distichum	Tree - Evergreen	3.2	2.2
Marl everglades	Taxodium distichum	Tree - Evergreen	3.2	2.2
Cypress savanna	Taxodium distichum	Tree - Evergreen	3.2	2.2
Conifer bog	Thuja occidentalis	Tree - Evergreen	3.2	2.2
Spruce - cedar - hemlock forest	Thuja plicata	Tree - Evergreen	3.2	2.2
Cedar - hemlock - pine forest	Thuja plicata	Tree - Evergreen	3.2	2.2
Cedar - hemlock - Douglas-fir forest	Thuja plicata	Tree - Evergreen	3.2	2.2
Maple - basswood forest	Tilia americana	Tree - Deciduous	3	4.2
Mixed mesophytic forest	Tilia heterophylla	Tree - Deciduous	3	4.2
Alpine meadows and barren	Trisetum spicatum	Graminoid - C ₃	3.6	3.6
Northern hardwoods	Tsuga canadensis	Tree - Evergreen	3.2	2.2
Northern hardwoods - fir forest	Tsuga canadensis	Tree - Evergreen	3.2	2.2
Northern hardwood - spruce forest	Tsuga canadensis	Tree - Evergreen	3.2	2.2
Spruce - cedar - hemlock forest	Tsuga heterophylla	Tree - Evergreen	3.2	2.2
Cedar - hemlock - pine forest	Tsuga heterophylla	Tree - Evergreen	3.2	2.2
Cedar - hemlock - Douglas-fir forest	Tsuga heterophylla	Tree - Evergreen	3.2	2.2
Fir - hemlock forest	Tsuga mertensiana	Tree - Evergreen	3.2	2.2
Lodgepole pine - subalpine forest	Tsuga mertensiana	Tree - Evergreen	3.2	2.2
Tule marshes	Typha domingensis	Graminoid - C ₃	3.6	3.6
Tule marshes	Typha latifolia	Graminoid - C ₃	3.6	3.6
Cedar glades	Ulmus alata	Tree - Deciduous	3	4.2
Elm - ash forest	Ulmus americana	Tree - Deciduous	3	4.2
Northern floodplain forest	Ulmus americana	Tree - Deciduous	3	4.2
California mixed evergreen forest	Umbellularia californica	Tree - Evergreen	3.2	2.2
Sea oats prairie	Uniola paniculata	Graminoid - C ₄	3.6	4.1
Live oak - sea oats	Uniola paniculata	Graminoid - C ₄	3.6	4.1

Appendix D: Resistance and Resilience Values from USGS National Vegetation Classification Community Types

Table D-1. Resistance and resilience values from USGS National Vegetation Classification Community Types.

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Acadian Coastal Salt Marsh	3.60	1.00	3.98	0.89	1.89
Acadian Estuary Marsh	3.60	1.00	3.80	0.80	1.80
Acadian Low-Elevation Spruce-Fir-Hardwood Forest	3.10	0.35	3.03	0.41	0.76
Acadian-Appalachian Alpine Tundra	2.96	0.17	3.03	0.42	0.58
Acadian-Appalachian Montane Spruce-Fir Forest	3.13	0.39	2.87	0.34	0.72
Acadian-Appalachian Subalpine Woodland and Heath-Krummholz	3.07	0.31	2.90	0.35	0.66
Agriculture - Cultivated Crops and Irrigated Agriculture	0.00	0.00	0.00	0.00	0.00
Agriculture - Pasture/Hay	0.00	0.00	0.00	0.00	0.00
Allegheny-Cumberland Dry Oak Forest and Woodland	3.02	0.25	3.98	0.89	1.14
Apacherian-Chihuahuan Mesquite Upland Scrub	3.05	0.29	3.31	0.56	0.84
Apacherian-Chihuahuan Semi-Desert Grassland and Steppe	3.60	1.00	4.10	0.95	1.95
Appalachian (Hemlock)-Northern Hardwood Forest	3.02	0.25	3.98	0.89	1.14
Appalachian Shale Barrens	3.10	0.35	3.20	0.50	0.85
Arkansas Valley Prairie and Woodland	3.48	0.84	4.12	0.96	1.80
Atlantic Coastal Plain Blackwater Stream Floodplain Forest	3.13	0.39	2.87	0.34	0.72
Atlantic Coastal Plain Brownwater Stream Floodplain Forest	3.13	0.39	2.87	0.34	0.72
Atlantic Coastal Plain Clay-Based Carolina Bay Wetland	3.50	0.87	3.25	0.53	1.40
Atlantic Coastal Plain Embayed Region Tidal Freshwater Marsh	3.60	1.00	3.68	0.74	1.74
Atlantic Coastal Plain Embayed Region Tidal Salt and Brackish Marsh	3.60	1.00	3.93	0.87	1.87
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland	3.20	0.48	3.89	0.85	1.33
Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier	3.04	0.27	3.80	0.80	1.07
Atlantic Coastal Plain Indian River Lagoon Tidal Marsh	3.38	0.71	3.55	0.68	1.39
Atlantic Coastal Plain Small Blackwater River Floodplain Forest	2.98	0.19	3.49	0.65	0.84
Atlantic Coastal Plain Small Brownwater River Floodplain Forest	3.04	0.27	3.80	0.80	1.07
Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin and Baygall	2.89	0.08	2.83	0.32	0.39
Atlantic Coastal Plain Upland Longleaf Pine Woodland	3.23	0.52	3.53	0.67	1.18
Bastrop Lost Pines Forest and Woodland	3.07	0.31	3.53	0.67	0.98
Boreal White Spruce-Fir-Hardwood Forest	3.13	0.39	2.87	0.34	0.72
Boreal-Laurentian Bog	2.87	0.05	2.47	0.14	0.19
Boreal-Laurentian Conifer Acidic Swamp and Treed Poor Fen	3.18	0.45	2.70	0.25	0.70
California Annual Grassland	0.00	0.00	0.00	0.00	0.00
California Central Valley and Southern Coastal Grassland	3.60	1.00	3.60	0.70	1.70
California Central Valley Mixed Oak Savanna	3.26	0.56	2.88	0.34	0.90
California Coastal Closed-Cone Conifer Forest and Woodland	3.20	0.48	2.20	0.00	0.48
California Coastal Live Oak Woodland and Savanna	2.90	0.09	2.64	0.22	0.31
California Coastal Redwood Forest	3.20	0.48	2.20	0.00	0.48
California Lower Montane Blue Oak-Foothill Pine Woodland and Savanna	3.07	0.31	3.53	0.67	0.98

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
California Mesic Chaparral	2.89	0.08	2.52	0.16	0.24
California Mesic Serpentine Grassland	3.40	0.74	3.57	0.69	1.43
California Montane Jeffrey Pine-(Ponderosa Pine) Woodland	3.20	0.48	2.20	0.00	0.48
California Northern Coastal Grassland	3.60	1.00	3.60	0.70	1.70
Central and South Texas Coastal Fringe Forest and Woodland	3.28	0.58	3.62	0.71	1.29
Central and Southern Appalachian Montane Oak Forest	3.19	0.47	3.75	0.78	1.24
Central and Southern Appalachian Spruce-Fir Forest	2.95	0.16	2.60	0.20	0.36
Central and Southern California Mixed Evergreen Woodland	3.10	0.35	3.20	0.50	0.85
Central Appalachian Alkaline Glade and Woodland	3.23	0.52	3.83	0.82	1.33
Central Appalachian Dry Oak-Pine Forest	3.07	0.31	2.80	0.30	0.61
Central Appalachian Pine-Oak Rocky Woodland	3.29	0.60	2.89	0.35	0.94
Central Appalachian River Floodplain	2.93	0.13	3.85	0.83	0.95
Central Appalachian Stream and Riparian	3.15	0.42	4.18	0.99	1.41
Central Atlantic Coastal Plain Maritime Forest	2.96	0.17	2.93	0.37	0.53
Central Atlantic Coastal Plain Sandy Beach	3.00	0.22	3.50	0.65	0.87
Central Atlantic Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	3.27	0.57	3.09	0.45	1.02
Central California Coast Ranges Cliff and Canyon	3.20	0.48	2.20	0.00	0.48
Central Florida Herbaceous Pondshore	3.48	0.84	3.68	0.74	1.58
Central Florida Pine Flatwoods	3.08	0.32	2.78	0.29	0.61
Central Florida Wet Prairie and Herbaceous Seep	3.60	1.00	3.60	0.70	1.70
Central Interior Acidic Cliff and Talus	3.60	1.00	3.60	0.70	1.70
Central Interior Calcareous Cliff and Talus	3.27	0.57	3.27	0.54	1.11
Central Interior Highlands Calcareous Glade and Barrens	3.20	0.48	3.68	0.74	1.22
Central Interior Highlands Dry Acidic Glade and Barrens	3.23	0.52	3.83	0.82	1.33
Central Mixedgrass Prairie	3.34	0.66	3.77	0.79	1.45
Central Tallgrass Prairie	3.60	1.00	4.02	0.91	1.91
Chihuahuan Creosotebush Desert Scrub	2.96	0.17	3.34	0.57	0.74
Chihuahuan Gypsophilous Grassland and Steppe	3.21	0.49	3.49	0.65	1.14
Chihuahuan Loamy Plains Desert Grassland	3.45	0.81	3.92	0.86	1.67
Chihuahuan Mixed Desert and Thornscrub	2.85	0.03	3.15	0.48	0.50
Chihuahuan Mixed Salt Desert Scrub	3.10	0.35	3.36	0.58	0.93
Chihuahuan Sandy Plains Semi-Desert Grassland	3.60	1.00	4.02	0.91	1.91
Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub	3.00	0.22	3.37	0.59	0.81
Chihuahuan Succulent Desert Scrub	3.00	0.22	3.50	0.65	0.87
Chihuahuan-Sonoran Desert Bottomland and Swale Grassland	3.42	0.77	3.78	0.79	1.56
Clearcut - Grassland/Herbaceous	0.00	0.00	0.00	0.00	0.00
Colorado Plateau Mixed Bedrock Canyon and Tableland	3.08	0.32	2.25	0.02	0.35
Colorado Plateau Mixed Low Sagebrush Shrubland	3.06	0.30	3.05	0.43	0.72
Colorado Plateau Pinyon-Juniper Shrubland	2.95	0.16	2.45	0.13	0.28
Colorado Plateau Pinyon-Juniper Woodland	2.96	0.17	2.59	0.20	0.36
Columbia Basin Foothill and Canyon Dry Grassland	3.50	0.87	3.67	0.74	1.61
Columbia Basin Palouse Prairie	3.60	1.00	3.60	0.70	1.70
Columbia Plateau Low Sagebrush Steppe	2.85	0.03	2.70	0.25	0.28
Columbia Plateau Scabland Shrubland	3.18	0.45	3.40	0.60	1.05
Columbia Plateau Silver Sagebrush Seasonally Flooded Shrub-Steppe	3.21	0.49	3.16	0.48	0.97
Columbia Plateau Steppe and Grassland	3.60	1.00	3.60	0.70	1.70

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Columbia Plateau Vernal Pool	3.60	1.00	3.85	0.83	1.83
Columbia Plateau Western Juniper Woodland and Savanna	3.05	0.29	2.65	0.23	0.51
Crosstimbers Oak Forest and Woodland	3.13	0.39	3.85	0.83	1.21
Crowley's Ridge Mesic Loess Slope Forest	3.00	0.22	4.20	1.00	1.22
Crowley's Ridge Sand Forest	3.03	0.26	3.87	0.84	1.09
Cumberland Acidic Cliff and Rockhouse	3.00	0.22	3.50	0.65	0.87
Cumberland Riverscour	3.23	0.52	3.68	0.74	1.26
Cumberland Sandstone Glade and Barrens	3.18	0.45	2.73	0.27	0.72
Developed-High Intensity	0.00	0.00	0.00	0.00	0.00
Developed-Low Intensity	0.00	0.00	0.00	0.00	0.00
Developed-Medium Intensity	0.00	0.00	0.00	0.00	0.00
Developed-Open Space	0.00	0.00	0.00	0.00	0.00
East Cascades Mesic Montane Mixed Conifer Forest and Woodland	3.20	0.48	2.20	0.00	0.48
East Cascades Oak-Ponderosa Pine Forest and Woodland	3.43	0.78	3.33	0.57	1.34
East Gulf Coastal Plain Depression Pond	3.57	0.96	3.62	0.71	1.67
East Gulf Coastal Plain Dry Chalk Bluff	3.60	1.00	3.60	0.70	1.70
East Gulf Coastal Plain Dune and Coastal Grassland	3.08	0.32	3.38	0.59	0.91
East Gulf Coastal Plain Freshwater Tidal Wooded Swamp	3.05	0.29	3.70	0.75	1.04
East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest	3.10	0.35	3.20	0.50	0.85
East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland	3.43	0.78	3.80	0.80	1.58
East Gulf Coastal Plain Large River Floodplain Forest	3.05	0.29	3.70	0.75	1.04
East Gulf Coastal Plain Maritime Forest	3.03	0.26	2.73	0.27	0.52
East Gulf Coastal Plain Near-Coast Pine Flatwoods	2.95	0.16	2.30	0.05	0.21
East Gulf Coastal Plain Northern Dry Upland Hardwood Forest	3.00	0.22	4.20	1.00	1.22
East Gulf Coastal Plain Northern Loess Bluff Forest	3.00	0.22	4.20	1.00	1.22
East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland	3.03	0.26	3.91	0.86	1.11
East Gulf Coastal Plain Northern Mesic Hardwood Slope Forest	3.00	0.22	4.20	1.00	1.22
East Gulf Coastal Plain Savanna and Wet Prairie	3.38	0.71	3.55	0.68	1.39
East Gulf Coastal Plain Small Stream and River Floodplain Forest	2.85	0.03	3.60	0.70	0.73
East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods	2.92	0.12	3.18	0.49	0.61
East Gulf Coastal Plain Southern Loess Bluff Forest	3.10	0.35	3.20	0.50	0.85
East-Central Texas Plains Post Oak Savanna and Woodland	3.05	0.29	3.70	0.75	1.04
East-Central Texas Plains Xeric Sandyland	3.30	0.61	4.15	0.98	1.59
Eastern Boreal Floodplain	3.26	0.56	3.17	0.49	1.04
Eastern Great Plains Tallgrass Aspen Parkland	3.18	0.45	3.82	0.81	1.26
Eastern Great Plains Wet Meadow, Prairie and Marsh	3.60	1.00	3.77	0.79	1.79
Eastern Hemi-Boreal Aspen-Birch Forest	3.00	0.22	4.20	1.00	1.22
Eastern Hemi-Boreal Dry-Mesic Pine-Black Spruce-Hardwood Forest	3.13	0.39	2.87	0.34	0.72
Eastern Hemi-Boreal Mesic Balsam Fir-Spruce Forest	3.20	0.48	2.20	0.00	0.48
Eastern Highland Rim Prairie and Barrens	3.37	0.70	3.77	0.79	1.49
Eastern Serpentine Woodland	3.28	0.58	3.66	0.73	1.31
Edwards Plateau Cliff	3.05	0.29	3.15	0.48	0.76
Edwards Plateau Dry-Mesic Slope Forest and Woodland	3.00	0.22	4.20	1.00	1.22
Edwards Plateau Floodplain Terrace	3.12	0.38	3.88	0.84	1.22
Edwards Plateau Limestone Savanna and Woodland	3.22	0.51	3.29	0.55	1.05
Edwards Plateau Limestone Shrubland	2.96	0.17	2.58	0.19	0.36

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Edwards Plateau Mesic Canyon	3.24	0.53	3.96	0.88	1.41
Edwards Plateau Riparian	3.13	0.39	3.66	0.73	1.12
Edwards Plateau Upland Depression	3.34	0.66	3.84	0.82	1.48
Florida Big Bend Fresh and Oligohaline Tidal Marsh	3.45	0.81	3.58	0.69	1.50
Florida Big Bend Salt and Brackish Tidal Marsh	3.60	1.00	3.93	0.87	1.87
Florida Dry Prairie	3.15	0.42	3.23	0.52	0.93
Florida Longleaf Pine Sandhill	3.03	0.26	2.75	0.28	0.53
Florida Panhandle Beach Vegetation	3.60	1.00	4.10	0.95	1.95
Florida Peninsula Inland Scrub	2.95	0.16	2.38	0.09	0.25
Floridian Highlands Freshwater Marsh	3.10	0.35	3.17	0.49	0.84
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	2.99	0.21	3.34	0.57	0.78
Great Basin Pinyon-Juniper Woodland	2.97	0.18	2.53	0.17	0.35
Great Basin Xeric Mixed Sagebrush Shrubland	2.88	0.06	2.82	0.31	0.37
Great Lakes Acidic Rocky Shore and Cliff	3.20	0.48	3.53	0.67	1.15
Great Lakes Alvar	3.28	0.58	3.20	0.50	1.08
Great Lakes Dune	2.99	0.21	3.00	0.40	0.61
Great Lakes Freshwater Estuary and Delta	3.60	1.00	3.60	0.70	1.70
Great Lakes Wet-Mesic Lakeplain Prairie	3.60	1.00	3.85	0.83	1.83
Great Lakes Wooded Dune and Swale	3.17	0.44	3.17	0.49	0.93
Great Plains Prairie Pothole	3.60	1.00	3.60	0.70	1.70
Great Plains Wooded Draw and Ravine	2.98	0.19	3.67	0.74	0.93
Gulf Coast Chenier Plain Beach	3.20	0.48	3.70	0.75	1.23
Gulf Coast Chenier Plain Fresh and Oligohaline Tidal Marsh	3.60	1.00	3.85	0.83	1.83
Gulf Coast Chenier Plain Salt and Brackish Tidal Marsh	3.60	1.00	3.93	0.87	1.87
Harvested Forest-Grass Regeneration	0.00	0.00	0.00	0.00	0.00
Harvested Forest-herbaceous Regeneration	0.00	0.00	0.00	0.00	0.00
High Allegheny Wetland	3.25	0.55	3.05	0.43	0.97
Inter-Mountain Basins Alkaline Closed Depression	3.60	1.00	3.77	0.79	1.79
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	3.14	0.40	2.76	0.28	0.68
Inter-Mountain Basins Big Sagebrush Shrubland	2.96	0.17	3.06	0.43	0.60
Inter-Mountain Basins Big Sagebrush Steppe	3.00	0.22	2.80	0.30	0.52
Inter-Mountain Basins Cliff and Canyon	3.12	0.38	2.23	0.01	0.39
Inter-Mountain Basins Curl-leaf Mountain-mahogany Woodland and Shrubland	3.15	0.42	3.10	0.45	0.87
Inter-Mountain Basins Greasewood Flat	2.96	0.17	3.07	0.44	0.60
Inter-Mountain Basins Interdunal Swale Wetland	3.60	1.00	3.60	0.70	1.70
Inter-Mountain Basins Juniper Savanna	3.25	0.55	3.11	0.46	1.00
Inter-Mountain Basins Mat Saltbush Shrubland	3.19	0.47	3.33	0.57	1.03
Inter-Mountain Basins Mixed Salt Desert Scrub	3.00	0.22	3.13	0.47	0.69
Inter-Mountain Basins Montane Sagebrush Steppe	3.15	0.42	3.05	0.43	0.84
Inter-Mountain Basins Semi-Desert Grassland	3.23	0.52	3.52	0.66	1.18
Inter-Mountain Basins Semi-Desert Shrub-Steppe	3.51	0.88	3.66	0.73	1.61
Inter-Mountain Basins Shale Badland	2.88	0.06	2.92	0.36	0.42
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	3.03	0.26	2.63	0.22	0.47
Inter-Mountain Basins Volcanic Rock and Cinder Land	2.95	0.16	2.30	0.05	0.21
Introduced Riparian Vegetation	0.00	0.00	0.00	0.00	0.00

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Introduced Upland Vegetation - Annual and Biennial Forbland	0.00	0.00	0.00	0.00	0.00
Introduced Upland Vegetation - Annual Grassland	0.00	0.00	0.00	0.00	0.00
Introduced Upland Vegetation - Perennial Grassland and Forbland	0.00	0.00	0.00	0.00	0.00
Introduced Upland Vegetation - Shrub	0.00	0.00	0.00	0.00	0.00
Introduced Upland Vegetation - Treed	0.00	0.00	0.00	0.00	0.00
Introduced Wetland Vegetation	0.00	0.00	0.00	0.00	0.00
Klamath-Siskiyou Cliff and Outcrop	3.60	1.00	3.60	0.70	1.70
Klamath-Siskiyou Lower Montane Serpentine Mixed Conifer Woodland	3.14	0.40	2.22	0.01	0.41
Klamath-Siskiyou Upper Montane Serpentine Mixed Conifer Woodland	3.20	0.48	2.20	0.00	0.48
Klamath-Siskiyou Xeromorphic Serpentine Savanna and Chaparral	2.95	0.16	2.30	0.05	0.21
Laurentian Jack Pine-Red Pine Forest	2.95	0.16	2.40	0.10	0.26
Laurentian Pine-Oak Barrens	3.06	0.30	2.72	0.26	0.56
Laurentian-Acadian Alkaline Conifer-Hardwood Swamp	3.10	0.35	3.20	0.50	0.85
Laurentian-Acadian Floodplain Forest	3.30	0.61	3.73	0.77	1.38
Laurentian-Acadian Freshwater Marsh	3.40	0.74	3.57	0.69	1.43
Laurentian-Acadian Northern Hardwood Forest	3.00	0.22	4.20	1.00	1.22
Laurentian-Acadian Northern Pine-(Oak) Forest	3.01	0.23	3.37	0.59	0.82
Laurentian-Acadian Pine-Hemlock-Hardwood Forest	3.10	0.35	3.03	0.42	0.77
Laurentian-Acadian Wet Meadow-Shrub Swamp	3.15	0.42	3.30	0.55	0.97
Llano Estacado Caprock Escarpment and Breaks Shrubland and Steppe	3.18	0.45	3.38	0.59	1.04
Llano Uplift Acidic Forest, Woodland and Glade	3.18	0.45	3.93	0.87	1.32
Louisiana Beach	3.60	1.00	4.10	0.95	1.95
Lower Mississippi River Dune Woodland and Forest	3.30	0.61	4.15	0.98	1.59
Lower Mississippi River Flatwoods	3.00	0.22	4.20	1.00	1.22
Madrean Encinal	3.40	0.74	3.32	0.56	1.30
Madrean Juniper Savanna	3.54	0.92	3.83	0.82	1.74
Madrean Lower Montane Pine-Oak Forest and Woodland	3.20	0.48	2.20	0.00	0.48
Madrean Oriental Chaparral	2.97	0.18	3.07	0.44	0.62
Madrean Pinyon-Juniper Woodland	3.20	0.48	2.20	0.00	0.48
Madrean Upper Montane Conifer-Oak Forest and Woodland	3.20	0.48	2.20	0.00	0.48
Managed Tree Plantation	0.00	0.00	0.00	0.00	0.00
Mediterranean California Alpine Bedrock and Scree	3.00	0.22	3.50	0.65	0.87
Mediterranean California Alpine Dry Tundra	3.40	0.74	3.57	0.69	1.43
Mediterranean California Alpine Fell-Field	3.00	0.22	3.50	0.65	0.87
Mediterranean California Coastal Bluff	2.85	0.03	2.95	0.38	0.40
Mediterranean California Dry-Mesic Mixed Conifer Forest and Woodland	3.00	0.22	2.40	0.10	0.32
Mediterranean California Foothill and Lower Montane Riparian Woodland and Shrubland	2.96	0.17	3.57	0.69	0.85
Mediterranean California Lower Montane Black Oak-Conifer Forest and Woodland	2.96	0.17	2.90	0.35	0.52
Mediterranean California Mesic Mixed Conifer Forest and Woodland	3.08	0.32	2.57	0.19	0.51
Mediterranean California Mesic Serpentine Woodland and Chaparral	3.00	0.22	2.28	0.04	0.26
Mediterranean California Mixed Evergreen Forest	3.10	0.35	2.32	0.06	0.41
Mediterranean California Mixed Oak Woodland	3.28	0.58	3.56	0.68	1.26
Mediterranean California Red Fir Forest	3.20	0.48	2.20	0.00	0.48
Mediterranean California Serpentine Barrens	3.00	0.22	3.50	0.65	0.87
Mediterranean California Serpentine Fen	3.45	0.81	3.58	0.69	1.50

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Mediterranean California Serpentine Foothill and Lower Montane Riparian Woodland and Seep	3.03	0.26	2.27	0.03	0.29
Mediterranean California Southern Coastal Dune	3.04	0.27	3.49	0.65	0.92
Mediterranean California Subalpine Meadow	3.30	0.61	3.55	0.68	1.29
Mediterranean California Subalpine Woodland	3.20	0.48	2.20	0.00	0.48
Mediterranean California Subalpine-Montane Fen	3.47	0.83	3.51	0.66	1.49
Middle Rocky Mountain Montane Douglas-fir Forest and Woodland	3.05	0.29	2.95	0.38	0.66
Mississippi Delta Maritime Forest	2.97	0.18	3.13	0.47	0.65
Mississippi River Alluvial Plain Dry-Mesic Loess Slope Forest	3.00	0.22	4.20	1.00	1.22
Mississippi River Bottomland Depression	3.00	0.22	4.20	1.00	1.22
Mississippi River Floodplain and Riparian Forest	3.00	0.22	4.20	1.00	1.22
Mississippi River Low Floodplain (Bottomland) Forest	3.00	0.22	4.20	1.00	1.22
Mississippi River Riparian Forest	3.00	0.22	4.20	1.00	1.22
Modified/Managed Southern Tall Grassland	0.00	0.00	0.00	0.00	0.00
Nashville Basin Limestone Glade and Woodland	3.13	0.39	3.38	0.59	0.98
Non-Specific Disturbed	0.00	0.00	0.00	0.00	0.00
North American Arid West Emergent Marsh	3.60	1.00	3.60	0.70	1.70
North American Warm Desert Badland	2.85	0.03	3.10	0.45	0.48
North American Warm Desert Bedrock Cliff and Outcrop	2.85	0.03	3.20	0.50	0.53
North American Warm Desert Cienega	3.43	0.78	3.71	0.76	1.53
North American Warm Desert Lower Montane Riparian Woodland and Shrubland	2.86	0.04	3.55	0.68	0.71
North American Warm Desert Pavement	0.00	0.00	0.00	0.00	0.00
North American Warm Desert Playa	3.10	0.35	3.45	0.63	0.98
North American Warm Desert Riparian Mesquite Bosque	2.87	0.05	3.60	0.70	0.75
North American Warm Desert Riparian Woodland and Shrubland	2.92	0.12	3.87	0.84	0.95
North Pacific Active Volcanic Rock and Cinder Land	2.85	0.03	3.25	0.53	0.55
North Pacific Alpine and Subalpine Bedrock and Scree	3.05	0.29	3.43	0.62	0.90
North Pacific Alpine and Subalpine Dry Grassland	3.60	1.00	3.60	0.70	1.70
North Pacific Avalanche Chute Shrubland	2.83	0.00	2.80	0.30	0.30
North Pacific Broadleaf Landslide Forest and Shrubland	2.85	0.03	3.60	0.70	0.73
North Pacific Coastal Cliff and Bluff	3.30	0.61	3.55	0.68	1.29
North Pacific Coastal Interdunal Wetland	3.60	1.00	3.60	0.70	1.70
North Pacific Dry and Mesic Alpine Dwarf-Shrubland, Fell-Field and Meadow	2.96	0.17	2.91	0.36	0.52
North Pacific Dry Douglas-fir-(Madrone) Forest and Woodland	3.16	0.43	2.60	0.20	0.63
North Pacific Dry-Mesic Silver Fir-Western Hemlock-Douglas-fir Forest	3.20	0.48	2.20	0.00	0.48
North Pacific Hardwood-Conifer Swamp	3.07	0.31	2.71	0.26	0.57
North Pacific Herbaceous Bald and Bluff	3.19	0.47	3.46	0.63	1.10
North Pacific Hypermaritime Shrub and Herbaceous Headland	3.06	0.30	3.00	0.40	0.70
North Pacific Hypermaritime Western Red-cedar-Western Hemlock Forest	3.20	0.48	2.20	0.00	0.48
North Pacific Intertidal Freshwater Wetland	3.29	0.60	3.23	0.52	1.11
North Pacific Lowland Mixed Hardwood-Conifer Forest	3.01	0.23	2.96	0.38	0.61
North Pacific Lowland Riparian Forest and Shrubland	2.92	0.12	3.32	0.56	0.68
North Pacific Maritime Coastal Sand Dune and Strand	3.28	0.58	2.95	0.38	0.96
North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest	2.99	0.21	2.71	0.26	0.46
North Pacific Maritime Mesic Subalpine Parkland	3.05	0.29	2.79	0.30	0.58
North Pacific Maritime Mesic-Wet Douglas-fir-Western Hemlock Forest	3.08	0.32	2.67	0.24	0.56

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
North Pacific Mesic Western Hemlock-Silver Fir Forest	3.10	0.35	2.36	0.08	0.43
North Pacific Montane Grassland	3.60	1.00	3.60	0.70	1.70
North Pacific Montane Massive Bedrock, Cliff and Talus	0.00	0.00	0.00	0.00	0.00
North Pacific Montane Riparian Woodland and Shrubland	2.91	0.10	2.89	0.35	0.45
North Pacific Mountain Hemlock Forest	3.20	0.48	2.20	0.00	0.48
North Pacific Oak Woodland	3.15	0.42	2.70	0.25	0.67
North Pacific Seasonal Sitka Spruce Forest	3.20	0.48	2.20	0.00	0.48
North Pacific Serpentine Barren	3.08	0.32	2.25	0.02	0.35
North Pacific Shrub Swamp	3.00	0.22	3.32	0.56	0.78
North Pacific Wooded Volcanic Flowage	3.03	0.26	2.61	0.21	0.46
North-Central Appalachian Acidic Cliff and Talus	2.97	0.18	3.07	0.44	0.62
North-Central Appalachian Circumneutral Cliff and Talus	2.90	0.09	3.80	0.80	0.89
North-Central Interior and Appalachian Acidic Peatland	3.18	0.45	2.70	0.25	0.70
North-Central Interior and Appalachian Rich Swamp	3.10	0.35	3.20	0.50	0.85
North-Central Interior Beech-Maple Forest	3.00	0.22	4.03	0.92	1.14
North-Central Interior Dry Oak Forest and Woodland	3.00	0.22	4.20	1.00	1.22
North-Central Interior Dry-Mesic Oak Forest and Woodland	3.00	0.22	4.20	1.00	1.22
North-Central Interior Floodplain	3.15	0.42	4.05	0.93	1.34
North-Central Interior Freshwater Marsh	3.60	1.00	3.60	0.70	1.70
North-Central Interior Maple-Basswood Forest	3.00	0.22	4.20	1.00	1.22
North-Central Interior Oak Savanna	3.30	0.61	3.80	0.80	1.41
North-Central Interior Sand and Gravel Tallgrass Prairie	3.60	1.00	3.98	0.89	1.89
North-Central Interior Wet Flatwoods	3.00	0.22	4.20	1.00	1.22
North-Central Interior Wet Meadow-Shrub Swamp	3.15	0.42	3.30	0.55	0.97
North-Central Oak Barrens	3.20	0.48	4.17	0.99	1.47
Northeastern Interior Dry-Mesic Oak Forest	3.04	0.27	3.80	0.80	1.07
Northeastern Interior Pine Barrens	3.20	0.48	3.68	0.74	1.22
Northern Atlantic Coastal Plain Basin Swamp and Wet Hardwood Forest	2.93	0.13	3.90	0.85	0.98
Northern Atlantic Coastal Plain Dune and Swale	3.00	0.22	2.98	0.39	0.61
Northern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	3.10	0.35	3.37	0.59	0.94
Northern Atlantic Coastal Plain Hardwood Forest	3.00	0.22	4.20	1.00	1.22
Northern Atlantic Coastal Plain Heathland and Grassland	2.93	0.13	3.18	0.49	0.62
Northern Atlantic Coastal Plain Maritime Forest	3.03	0.26	2.75	0.28	0.53
Northern Atlantic Coastal Plain Pitch Pine Barrens	3.03	0.26	3.42	0.61	0.87
Northern Atlantic Coastal Plain Pitch Pine Lowland	3.18	0.45	2.88	0.34	0.79
Northern Atlantic Coastal Plain Sandy Beach	3.00	0.22	3.50	0.65	0.87
Northern Atlantic Coastal Plain Stream and River	0.00	0.00	0.00	0.00	0.00
Northern Atlantic Coastal Plain Tidal Salt Marsh	3.60	1.00	3.98	0.89	1.89
Northern Atlantic Coastal Plain Tidal Swamp	2.93	0.13	3.90	0.85	0.98
Northern California Claypan Vernal Pool	3.00	0.22	3.50	0.65	0.87
Northern California Mesic Subalpine Woodland	3.20	0.48	2.20	0.00	0.48
Northern Great Lakes Coastal Marsh	3.60	1.00	3.60	0.70	1.70
Northern Rocky Mountain Avalanche Chute Shrubland	2.98	0.19	3.56	0.68	0.87
Northern Rocky Mountain Conifer Swamp	3.20	0.48	2.20	0.00	0.48
Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest	3.40	0.74	2.90	0.35	1.09
Northern Rocky Mountain Foothill Conifer Wooded Steppe	3.33	0.65	2.67	0.24	0.88

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland	3.00	0.22	2.80	0.30	0.52
Northern Rocky Mountain Lower Montane, Foothill and Valley Grassland	3.60	1.00	3.60	0.70	1.70
Northern Rocky Mountain Mesic Montane Mixed Conifer Forest	3.20	0.48	2.20	0.00	0.48
Northern Rocky Mountain Ponderosa Pine Woodland and Savanna	3.02	0.25	2.63	0.22	0.46
Northern Rocky Mountain Subalpine Woodland and Parkland	3.08	0.32	2.40	0.10	0.42
Northern Rocky Mountain Subalpine-Upper Montane Grassland	3.60	1.00	3.60	0.70	1.70
Northern Rocky Mountain Western Larch Savanna	2.94	0.14	2.93	0.37	0.51
Northern Rocky Mountain Wooded Vernal Pool	3.13	0.39	3.05	0.43	0.81
Northern Tallgrass Prairie	3.60	1.00	4.00	0.90	1.90
Northwestern Great Plains Aspen Forest and Parkland	3.00	0.22	3.45	0.63	0.85
Northwestern Great Plains Floodplain	3.18	0.45	3.72	0.76	1.21
Northwestern Great Plains Mixedgrass Prairie	3.60	1.00	3.70	0.75	1.75
Northwestern Great Plains Riparian	3.09	0.34	3.60	0.70	1.04
Northwestern Great Plains Shrubland	2.93	0.13	3.05	0.43	0.55
Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna	3.13	0.39	3.44	0.62	1.01
Open Water	0.00	0.00	0.00	0.00	0.00
Ouachita Montane Oak Forest	3.30	0.61	4.03	0.92	1.53
Ozark-Ouachita Dry Oak Woodland	3.00	0.22	4.20	1.00	1.22
Ozark-Ouachita Dry-Mesic Oak Forest	3.00	0.22	4.20	1.00	1.22
Ozark-Ouachita Mesic Hardwood Forest	3.00	0.22	4.20	1.00	1.22
Ozark-Ouachita Riparian	3.20	0.48	3.88	0.84	1.32
Ozark-Ouachita Shortleaf Pine-Bluestem Woodland	3.11	0.36	3.90	0.85	1.21
Ozark-Ouachita Shortleaf Pine-Oak Forest and Woodland	3.20	0.48	3.68	0.74	1.22
Paleozoic Plateau Bluff and Talus	3.60	1.00	4.10	0.95	1.95
Piedmont Upland Depression Swamp	3.06	0.30	3.84	0.82	1.12
Quarries/Strip Mines/Gravel Pits	0.00	0.00	0.00	0.00	0.00
Recently Burned	0.00	0.00	0.00	0.00	0.00
Recently Burned Herbaceous	0.00	0.00	0.00	0.00	0.00
Recently Logged Timberland	0.00	0.00	0.00	0.00	0.00
Recently Logged Timberland-Herbaceous Cover	0.00	0.00	0.00	0.00	0.00
Recently Logged Timberland-Shrubland Cover	0.00	0.00	0.00	0.00	0.00
Red River Large Floodplain Forest	3.05	0.29	3.70	0.75	1.04
Rocky Mountain Alpine Bedrock and Scree	3.00	0.22	3.50	0.65	0.87
Rocky Mountain Alpine Fell-Field	3.08	0.32	3.51	0.66	0.98
Rocky Mountain Alpine Turf	3.34	0.66	3.51	0.66	1.32
Rocky Mountain Alpine-Montane Wet Meadow	3.39	0.73	3.56	0.68	1.41
Rocky Mountain Aspen Forest and Woodland	3.00	0.22	3.45	0.63	0.85
Rocky Mountain Bigtooth Maple Ravine Woodland	2.92	0.12	3.58	0.69	0.81
Rocky Mountain Cliff, Canyon and Massive Bedrock	0.00	0.00	0.00	0.00	0.00
Rocky Mountain Foothill Limber Pine-Juniper Woodland	3.23	0.52	3.09	0.45	0.96
Rocky Mountain Lodgepole Pine Forest	2.83	0.00	2.65	0.23	0.23
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland	2.89	0.08	3.38	0.59	0.67
Rocky Mountain Lower Montane-Foothill Shrubland	2.88	0.06	3.06	0.43	0.49
Rocky Mountain Poor-Site Lodgepole Pine Forest	3.05	0.29	2.80	0.30	0.59
Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland	3.01	0.23	2.50	0.15	0.38

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland	2.95	0.16	2.60	0.20	0.36
Rocky Mountain Subalpine-Montane Fen	3.51	0.88	3.54	0.67	1.55
Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland	3.15	0.42	2.96	0.38	0.80
Rocky Mountain Subalpine-Montane Mesic Meadow	3.30	0.61	3.55	0.68	1.29
Rocky Mountain Subalpine-Montane Riparian Woodland	3.03	0.26	2.90	0.35	0.61
Ruderal Forest	0.00	0.00	0.00	0.00	0.00
Ruderal Upland - Old Field	0.00	0.00	0.00	0.00	0.00
Sierra Nevada Alpine Dwarf-Shrubland	2.91	0.10	3.37	0.59	0.69
Sierra Nevada Cliff and Canyon	3.11	0.36	2.48	0.14	0.50
Sierra Nevada Subalpine Lodgepole Pine Forest and Woodland	3.04	0.27	2.53	0.17	0.44
Sierran-Intermontane Desert Western White Pine-White Fir Woodland	3.20	0.48	2.20	0.00	0.48
Sonora-Mojave Mixed Salt Desert Scrub	3.00	0.22	3.23	0.52	0.74
South Florida Bayhead Swamp	3.08	0.32	2.25	0.02	0.35
South Florida Cypress Dome	2.87	0.05	2.33	0.06	0.12
South Florida Dwarf Cypress Savanna	3.47	0.83	3.30	0.55	1.38
South Florida Everglades Sawgrass Marsh	3.30	0.61	3.40	0.60	1.21
South Florida Hardwood Hammock	2.96	0.17	2.68	0.24	0.41
South Florida Pine Flatwoods	3.05	0.29	2.93	0.37	0.65
South Florida Pine Rockland	3.13	0.39	3.38	0.59	0.98
South Florida Shell Hash Beach	3.30	0.61	3.80	0.80	1.41
South Florida Slough, Gator Hole and Willow Head	3.23	0.52	3.43	0.62	1.13
South Florida Wet Marl Prairie	3.38	0.71	3.43	0.62	1.33
South Texas Dune and Coastal Grassland	3.60	1.00	4.10	0.95	1.95
South Texas Salt and Brackish Tidal Flat	3.12	0.38	3.46	0.63	1.01
South Texas Sand Sheet Grassland	3.60	1.00	4.10	0.95	1.95
South-Central Interior / Upper Coastal Plain Flatwoods	3.00	0.22	4.20	1.00	1.22
South-Central Interior / Upper Coastal Plain Wet Flatwoods	3.00	0.22	4.20	1.00	1.22
South-Central Interior Large Floodplain	2.93	0.13	3.90	0.85	0.98
South-Central Interior Mesophytic Forest	3.00	0.22	4.20	1.00	1.22
South-Central Interior Small Stream and Riparian	2.93	0.13	3.90	0.85	0.98
South-Central Saline Glade	3.23	0.52	3.70	0.75	1.27
Southeast Florida Beach	3.00	0.22	3.50	0.65	0.87
Southeast Florida Coastal Strand and Maritime Hammock	2.83	0.00	2.50	0.15	0.15
Southeastern Coastal Plain Cliff	3.60	1.00	4.10	0.95	1.95
Southeastern Coastal Plain Interdunal Wetland	3.60	1.00	3.73	0.77	1.77
Southeastern Coastal Plain Natural Lakeshore	3.18	0.45	2.60	0.20	0.65
Southeastern Great Plains Floodplain Forest	3.03	0.26	3.73	0.77	1.02
Southeastern Great Plains Riparian Forest	2.93	0.13	3.85	0.83	0.95
Southeastern Great Plains Tallgrass Prairie	3.60	1.00	4.10	0.95	1.95
Southeastern Interior Longleaf Pine Woodland	3.18	0.45	3.53	0.67	1.12
Southern and Central Appalachian Bog and Fen	3.10	0.35	3.20	0.50	0.85
Southern and Central Appalachian Cove Forest	2.99	0.21	3.95	0.88	1.08
Southern Appalachian Granitic Dome	3.30	0.61	3.57	0.69	1.30
Southern Appalachian Grass and Shrub Bald	2.83	0.00	2.83	0.32	0.32
Southern Appalachian Low-Elevation Pine Forest	3.15	0.42	2.70	0.25	0.67
Southern Appalachian Montane Pine Forest and Woodland	3.10	0.35	2.24	0.02	0.37

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Southern Appalachian Northern Hardwood Forest	3.03	0.26	3.87	0.84	1.09
Southern Appalachian Oak Forest	3.00	0.22	4.20	1.00	1.22
Southern Appalachian Rocky Summit	3.08	0.32	3.40	0.60	0.92
Southern Atlantic Coastal Plain Depression Pond	3.60	1.00	3.73	0.77	1.77
Southern Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest	3.00	0.22	4.20	1.00	1.22
Southern Atlantic Coastal Plain Dune and Maritime Grassland	3.45	0.81	3.95	0.88	1.68
Southern Atlantic Coastal Plain Florida Beach	3.15	0.42	3.65	0.73	1.14
Southern Atlantic Coastal Plain Fresh and Oligohaline Tidal Marsh	3.60	1.00	3.74	0.77	1.77
Southern Atlantic Coastal Plain Maritime Forest	3.08	0.32	2.33	0.06	0.39
Southern Atlantic Coastal Plain Mesic Hardwood Forest	2.93	0.13	3.75	0.78	0.90
Southern Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest	3.11	0.36	3.27	0.54	0.90
Southern Atlantic Coastal Plain Salt and Brackish Tidal Marsh	3.16	0.43	3.02	0.41	0.84
Southern Atlantic Coastal Plain Sea Island Beach	3.00	0.22	3.50	0.65	0.87
Southern Atlantic Coastal Plain Tidal Wooded Swamp	3.05	0.29	3.70	0.75	1.04
Southern Atlantic Coastal Plain Wet Pine Savanna and Flatwoods	2.95	0.16	2.40	0.10	0.26
Southern Atlantic Coastal Plain Xeric River Dune	2.90	0.09	3.00	0.40	0.49
Southern California Oak Woodland and Savanna	3.00	0.22	2.89	0.35	0.57
Southern Coastal Plain Blackland Prairie and Woodland	3.54	0.92	3.61	0.71	1.63
Southern Coastal Plain Blackwater River Floodplain Forest	3.10	0.35	3.20	0.50	0.85
Southern Coastal Plain Dry Upland Hardwood Forest	3.03	0.26	3.87	0.84	1.09
Southern Coastal Plain Herbaceous Seep and Bog	3.23	0.52	3.28	0.54	1.06
Southern Coastal Plain Hydric Hammock	3.13	0.39	2.87	0.34	0.72
Southern Coastal Plain Limestone Forest	3.12	0.38	3.98	0.89	1.27
Southern Coastal Plain Mesic Slope Forest	3.07	0.31	3.53	0.67	0.98
Southern Coastal Plain Nonriverine Basin Swamp	3.27	0.57	3.32	0.56	1.13
Southern Coastal Plain Nonriverine Cypress Dome	2.86	0.04	3.14	0.47	0.51
Southern Coastal Plain Oak Dome and Hammock	3.16	0.43	3.14	0.47	0.90
Southern Coastal Plain Seepage Swamp and Baygall	2.97	0.18	3.11	0.46	0.64
Southern Colorado Plateau Sand Shrubland	2.93	0.13	3.05	0.43	0.55
Southern Interior Calcareous Cliff	3.40	0.74	3.03	0.42	1.16
Southern Interior Low Plateau Dry-Mesic Oak Forest	3.00	0.22	4.20	1.00	1.22
Southern Piedmont Cliff	3.40	0.74	3.73	0.77	1.51
Southern Piedmont Dry Oak-(Pine) Forest	3.02	0.25	4.02	0.91	1.16
Southern Piedmont Glade and Barrens	3.40	0.74	3.03	0.42	1.16
Southern Piedmont Granite Flatrock and Outcrop	3.13	0.39	3.05	0.43	0.81
Southern Piedmont Large Floodplain Forest	2.96	0.17	3.61	0.71	0.87
Southern Piedmont Mesic Forest	3.03	0.26	3.95	0.88	1.13
Southern Piedmont Small Floodplain and Riparian Forest	3.06	0.30	3.63	0.72	1.01
Southern Ridge and Valley / Cumberland Dry Calcareous Forest	3.04	0.27	3.80	0.80	1.07
Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland	3.16	0.43	2.64	0.22	0.65
Southern Rocky Mountain Juniper Woodland and Savanna	3.39	0.73	3.50	0.65	1.38
Southern Rocky Mountain Mesic Montane Mixed Conifer Forest and Woodland	3.01	0.23	2.50	0.15	0.38
Southern Rocky Mountain Montane-Subalpine Grassland	3.60	1.00	3.69	0.75	1.75
Southern Rocky Mountain Pinyon-Juniper Woodland	3.04	0.27	2.70	0.25	0.52

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Southern Rocky Mountain Ponderosa Pine Savanna	3.43	0.78	3.14	0.47	1.25
Southern Rocky Mountain Ponderosa Pine Woodland	3.04	0.27	2.88	0.34	0.61
Southwest Florida Beach	3.20	0.48	3.70	0.75	1.23
Southwest Florida Coastal Strand and Maritime Hammock	2.90	0.09	2.95	0.38	0.47
Southwest Florida Dune and Coastal Grassland	3.23	0.52	3.53	0.67	1.18
Southwestern Great Plains Canyon	3.18	0.45	2.73	0.27	0.72
Successional Shrub/Scrub	0.00	0.00	0.00	0.00	0.00
Successional Shrub/Scrub (Clear Cut)	0.00	0.00	0.00	0.00	0.00
Tamaulipan Calcareous Thornscrub	2.84	0.01	3.03	0.42	0.43
Tamaulipan Floodplain	3.30	0.61	3.48	0.64	1.25
Tamaulipan Mesquite Upland Scrub	3.05	0.29	3.31	0.56	0.84
Tamaulipan Palm Grove Riparian Forest	3.05	0.29	3.70	0.75	1.04
Tamaulipan Ramadero	3.09	0.34	3.30	0.55	0.89
Tamaulipan Savanna Grassland	3.45	0.81	4.13	0.97	1.77
Temperate Pacific Freshwater Aquatic Bed	0.00	0.00	0.00	0.00	0.00
Temperate Pacific Freshwater Emergent Marsh	3.60	1.00	3.60	0.70	1.70
Temperate Pacific Freshwater Mudflat	3.17	0.44	3.60	0.70	1.14
Temperate Pacific Intertidal Flat	3.30	0.61	3.55	0.68	1.29
Temperate Pacific Subalpine-Montane Wet Meadow	3.38	0.71	3.56	0.68	1.39
Temperate Pacific Tidal Salt and Brackish Marsh	3.47	0.83	3.61	0.71	1.54
Texas Blackland Tallgrass Prairie	3.60	1.00	4.10	0.95	1.95
Texas Coast Beach	3.15	0.42	3.65	0.73	1.14
Texas Coast Dune and Coastal Grassland	3.60	1.00	4.10	0.95	1.95
Texas Coast Fresh and Oligohaline Tidal Marsh	3.60	1.00	3.93	0.87	1.87
Texas Coast Salt and Brackish Tidal Marsh	3.26	0.56	3.50	0.65	1.21
Texas Saline Coastal Prairie	3.60	1.00	4.10	0.95	1.95
Texas-Louisiana Coastal Prairie	3.60	1.00	4.10	0.95	1.95
Texas-Louisiana Coastal Prairie Pondshore	3.30	0.61	3.63	0.72	1.33
West Gulf Coastal Plain Catahoula Barrens	3.29	0.60	3.67	0.74	1.33
West Gulf Coastal Plain Chenier and Upper Texas Coastal Fringe Forest and Woodland	3.10	0.35	3.20	0.50	0.85
West Gulf Coastal Plain Flatwoods Pond	3.60	1.00	3.85	0.83	1.83
West Gulf Coastal Plain Large River Floodplain Forest	3.04	0.27	3.80	0.80	1.07
West Gulf Coastal Plain Mesic Hardwood Forest	2.98	0.19	3.25	0.53	0.72
West Gulf Coastal Plain Near-Coast Large River Swamp	3.10	0.35	3.20	0.50	0.85
West Gulf Coastal Plain Nepheline Syenite Glade	3.48	0.84	4.02	0.91	1.75
West Gulf Coastal Plain Nonriverine Wet Hardwood Flatwoods	3.04	0.27	3.80	0.80	1.07
West Gulf Coastal Plain Northern Calcareous Prairie	3.45	0.81	4.00	0.90	1.71
West Gulf Coastal Plain Pine-Hardwood Flatwoods	3.05	0.29	3.70	0.75	1.04
West Gulf Coastal Plain Pine-Hardwood Forest	3.07	0.31	3.53	0.67	0.98
West Gulf Coastal Plain Sandhill Oak and Shortleaf Pine Forest and Woodland	3.05	0.29	3.70	0.75	1.04
West Gulf Coastal Plain Seepage Swamp and Baygall	2.90	0.09	2.90	0.35	0.44
West Gulf Coastal Plain Small Stream and River Forest	3.15	0.42	4.05	0.93	1.34
West Gulf Coastal Plain Southern Calcareous Prairie	3.23	0.52	3.58	0.69	1.21
West Gulf Coastal Plain Stream Terrace Sandyland Longleaf Pine Woodland	3.08	0.32	3.40	0.60	0.92
West Gulf Coastal Plain Upland Longleaf Pine Forest and Woodland	3.25	0.55	3.18	0.49	1.04

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
West Gulf Coastal Plain Weches Glade	3.13	0.39	3.23	0.52	0.90
West Gulf Coastal Plain Wet Longleaf Pine Savanna and Flatwoods	3.18	0.45	2.73	0.27	0.72
Western Great Plains Cliff and Outcrop	3.24	0.53	3.62	0.71	1.24
Western Great Plains Closed Depression Wetland	3.60	1.00	3.73	0.77	1.77
Western Great Plains Depressional Wetland Systems	3.53	0.91	3.72	0.76	1.67
Western Great Plains Dry Bur Oak Forest and Woodland	3.08	0.32	3.75	0.78	1.10
Western Great Plains Floodplain	3.00	0.22	3.58	0.69	0.91
Western Great Plains Foothill and Piedmont Grassland	3.60	1.00	3.88	0.84	1.84
Western Great Plains Mesquite Woodland and Shrubland	3.20	0.48	3.65	0.73	1.21
Western Great Plains Open Freshwater Depression Wetland	3.60	1.00	3.73	0.77	1.77
Western Great Plains Riparian	3.39	0.73	3.80	0.80	1.53
Western Great Plains Saline Depression Wetland	3.38	0.71	3.70	0.75	1.46
Western Great Plains Sand Prairie	3.60	1.00	3.85	0.83	1.83
Western Great Plains Sandhill Steppe	3.45	0.81	3.92	0.86	1.67
Western Great Plains Shortgrass Prairie	3.60	1.00	4.10	0.95	1.95
Western Great Plains Tallgrass Prairie	3.60	1.00	4.10	0.95	1.95
Willamette Valley Upland Prairie and Savanna	3.60	1.00	3.60	0.70	1.70
Willamette Valley Wet Prairie	3.48	0.84	3.58	0.69	1.53
Wyoming Basins Dwarf Sagebrush Shrubland and Steppe	3.04	0.27	2.91	0.36	0.63

Appendix E: Resistance and Resilience Values from Küchler Potential Vegetation Community Types

Table E-1. Resistance and Resilience Values from Küchler Potential Vegetation Community Types.

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Mangrove	2.70	0.00	2.40	0.10	0.10
Mesquite bosques	2.70	0.00	3.00	0.40	0.40
Chaparral	2.70	0.00	2.40	0.10	0.10
Montane chaparral	2.70	0.00	2.40	0.10	0.10
Coastal sagebrush	2.70	0.00	2.73	0.27	0.27
Mountain-mahogany - oak scrub	2.70	0.00	2.70	0.25	0.25
Great Basin sagebrush	2.70	0.00	2.40	0.10	0.10
Black - brush	2.70	0.00	3.00	0.40	0.40
Saltbush - greasewood	2.70	0.00	3.00	0.40	0.40
Creosote bush	2.70	0.00	2.40	0.10	0.10
Creosote bush - bur sage	2.70	0.00	2.70	0.25	0.25
Creosote bush - tarbush	2.70	0.00	2.70	0.25	0.25
Ceniza shrub	2.70	0.00	2.60	0.20	0.20
Trans - pecos shrub savanna	2.70	0.00	2.70	0.25	0.25
Alder - ash forest	2.85	0.17	3.60	0.70	0.87
Palo verde - cactus shrub	2.85	0.17	3.25	0.53	0.69
Northern floodplain forest	2.90	0.22	3.80	0.80	1.02
Pocosin	2.95	0.28	2.30	0.05	0.33
Oak - hickory forest	3.00	0.33	4.20	1.00	1.33
Elm - ash forest	3.00	0.33	4.20	1.00	1.33
Beech - maple forest	3.00	0.33	4.20	1.00	1.33
Mixed mesophytic forest	3.00	0.33	4.20	1.00	1.33
Appalachian oak forest	3.00	0.33	4.20	1.00	1.33
Oregon oak woods	3.00	0.33	4.20	1.00	1.33
Maple - basswood forest	3.00	0.33	4.20	1.00	1.33
Northern hardwoods	3.05	0.39	3.70	0.75	1.14
Northeastern oak - pine forest	3.07	0.41	3.53	0.67	1.08
Southern floodplain forest	3.07	0.41	3.53	0.67	1.08
Blackbelt	3.07	0.41	3.53	0.67	1.08
Northern hardwood - spruce forest	3.08	0.42	3.40	0.60	1.02
Oak - hickory - pine forest	3.08	0.42	3.40	0.60	1.02
Northern hardwoods - fir forest	3.10	0.44	3.20	0.50	0.94
Southern mixed forest	3.10	0.44	3.20	0.50	0.94
Mesquite - oak savanna	3.10	0.44	3.77	0.79	1.23
California mixed evergreen forest	3.13	0.48	2.29	0.04	0.52
California oak - woods	3.14	0.49	2.77	0.29	0.77
Sagebrush steppe	3.15	0.50	3.00	0.40	0.90

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Galleta - three awn shrub-steppe	3.15	0.50	3.40	0.60	1.10
Mesquite - acacia savanna	3.15	0.50	3.55	0.68	1.18
Palmetto prairie	3.15	0.50	3.55	0.68	1.18
Mesquite - buffalo grass	3.15	0.50	3.55	0.68	1.18
Cedar glades	3.16	0.51	3.78	0.79	1.30
Juniper steppe woodland	3.17	0.52	2.73	0.27	0.79
Mesquite - live oak savanna	3.17	0.52	3.10	0.45	0.97
Marl everglades	3.17	0.52	2.73	0.27	0.79
Everglades	3.17	0.52	2.73	0.27	0.79
Spruce - cedar - hemlock forest	3.20	0.56	2.20	0.00	0.56
Ponderosa - shrub forest	3.20	0.56	2.20	0.00	0.56
Western ponderosa forest	3.20	0.56	2.20	0.00	0.56
Sand pine scrub	3.20	0.56	2.20	0.00	0.56
Sub - tropical pine forest	3.20	0.56	2.20	0.00	0.56
Douglas-fir forest	3.20	0.56	2.20	0.00	0.56
Cedar - hemlock - pine forest	3.20	0.56	2.20	0.00	0.56
Grand fir - Douglas-fir forest	3.20	0.56	2.20	0.00	0.56
Western spruce - fir forest	3.20	0.56	2.20	0.00	0.56
Eastern ponderosa forest	3.20	0.56	2.20	0.00	0.56
Black Hills pine forest	3.20	0.56	2.20	0.00	0.56
Pine - Douglas-fir forest	3.20	0.56	2.20	0.00	0.56
Arizona pine forest	3.20	0.56	2.20	0.00	0.56
Cedar - hemlock - Douglas-fir forest	3.20	0.56	2.20	0.00	0.56
Spruce - fir - Douglas-fir forest	3.20	0.56	2.20	0.00	0.56
Southwestern spruce - fir forest	3.20	0.56	2.20	0.00	0.56
Great Basin pine forest	3.20	0.56	2.20	0.00	0.56
Juniper - pinyon woodland	3.20	0.56	2.20	0.00	0.56
Silver fir - Douglas-fir forest	3.20	0.56	2.20	0.00	0.56
Oak - juniper woodland	3.20	0.56	2.20	0.00	0.56
Fir - hemlock forest	3.20	0.56	2.20	0.00	0.56
Mixed conifer forest	3.20	0.56	2.20	0.00	0.56
Redwood forest	3.20	0.56	2.20	0.00	0.56
Red fir forest	3.20	0.56	2.20	0.00	0.56
Lodgepole pine - subalpine forest	3.20	0.56	2.20	0.00	0.56
Cross timbers	3.20	0.56	4.17	0.99	1.54
Pine - cypress forest	3.20	0.56	2.20	0.00	0.56
Great lakes spruce - fir forest	3.20	0.56	2.20	0.00	0.56
Conifer bog	3.20	0.56	2.20	0.00	0.56
Great lakes pine forest	3.20	0.56	2.20	0.00	0.56
Northeastern spruce - fir forest	3.20	0.56	2.20	0.00	0.56
Southeastern spruce - fir forest	3.20	0.56	2.20	0.00	0.56
Grama - tobosa shrub-steppe	3.30	0.67	3.53	0.67	1.33
Mesquite savanna	3.30	0.67	3.73	0.77	1.43
Juniper - oak savanna	3.33	0.70	2.83	0.32	1.02
Wheatgrass - needlegrass shrub-steppe	3.38	0.76	3.30	0.55	1.31
Sandsage - bluestem prairie	3.38	0.76	3.83	0.82	1.57

Community	Mean Resistance	Scaled Resistance	Mean Resilience	Scaled Resilience	Net Persistence
Shinnery	3.40	0.78	3.15	0.48	1.25
Oak savanna	3.40	0.78	4.13	0.97	1.74
Live oak - sea oats	3.40	0.78	3.15	0.48	1.25
Cypress savanna	3.47	0.86	3.47	0.64	1.49
Fescue - oatgrass	3.60	1.00	3.60	0.70	1.70
California steppe	3.60	1.00	3.60	0.70	1.70
Tule marshes	3.60	1.00	3.60	0.70	1.70
Fescue - wheatgrass	3.60	1.00	3.60	0.70	1.70
Wheatgrass bluegrass	3.60	1.00	3.60	0.70	1.70
Alpine meadows and barren	3.60	1.00	3.60	0.70	1.70
Gramma - galleta steppe	3.60	1.00	4.10	0.95	1.95
Gramma - tobosa prairie	3.60	1.00	4.10	0.95	1.95
Foothills prairie	3.60	1.00	3.60	0.70	1.70
Gramma - needlegrass - wheatgrass	3.60	1.00	3.77	0.79	1.79
Gramma - buffalo grass	3.60	1.00	4.10	0.95	1.95
Wheatgrass - needlegrass	3.60	1.00	3.73	0.77	1.77
Wheatgrass - bluestem - needlegrass	3.60	1.00	3.77	0.79	1.79
Wheatgrass - grama - buffalo grass	3.60	1.00	3.93	0.87	1.87
Bluestem - grama prairie	3.60	1.00	4.10	0.95	1.95
Sea oats prairie	3.60	1.00	4.10	0.95	1.95
Northern cordgrass prairie	3.60	1.00	4.10	0.95	1.95
Bluestem prairie	3.60	1.00	4.10	0.95	1.95
Nebraska sandhills prairie	3.60	1.00	4.00	0.90	1.90
Blackland prairie	3.60	1.00	3.85	0.83	1.83
Bluestem - sacahuista prairie	3.60	1.00	4.10	0.95	1.95
Southern cordgrass prairie	3.60	1.00	4.10	0.95	1.95
Fayette prairie	3.60	1.00	4.10	0.95	1.95

References

- Andrés-Abellán, Manuela, Francisco R. López-Serrano, Francisco A. García Morote, and Antonio Del Cerro-Barja. 2006. Assessment of trampling simulation impacts on native vegetation in Mediterranean Sclerophyllous forest. *Environmental Monitoring and Assessment* 120(1-3):93-107.
- Bailey, Robert G. 1980. *Description of the Ecoregions of the United States*. 1391. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Ballantyne, Mark, and Catherine Marina Pickering. 2013. Tourism and recreation: A common threat to IUCN red-listed vascular plants in Europe. *Biodiversity and Conservation* 22(13-14):3027–3044.
- Barros, Agustina, Jorge Gonnet, and Catherine Pickering. 2013. Impacts of informal trails on vegetation and soils in the highest protected area in the Southern Hemisphere. *Journal of Environmental Management* 127:50–60.
- Bell, Katherine L., and Lawrence C. Bliss. 1973. Alpine disturbance studies: Olympic National Park, USA. *Biological Conservation* 5(1):25–32.
- Bernhardt-Römermann, Markus, Alan Gray, Adam J. Vanbergen, Laurent Bergès, Andreas Bohner, Rob W. Brooker, Luc De Bruyn, Bruno De Cinti, Thomas Dirnböck, Ulf Grandin, Alison J. Hester, Róbert Kanka, Stefan Klotz, Grégory Loucougaray, Lars Lundin, Giorgio Matteucci, Iona Mészáros, Viktor Oláh, Elena Preda, Bernard Prévosto, Juha Pykälä, Wolfgang Schmidt, Michele E. Taylor, Angheluta Vadineanu, Theresa Waldmann, and Jutta Stadler. 2011. Functional traits and local environment predict vegetation responses to disturbance: A pan-European multi-site experiment. *Journal of Ecology* 99(3):777–787.
- Bratton, Susan Power. 1985. Effects of disturbance by visitors on two woodland orchid species in Great Smoky Mountains National Park, USA. *Biological Conservation* 31(3):211–227.
- Cole, David N. 1995. Experimental trampling of vegetation. II. Predictors of resistance and resilience. *Journal of Applied Ecology* 32:15–224.
- . 2004. Impacts of hiking and camping on soils and vegetation: A review. *Environmental Impacts of Ecotourism* 41:60.
- Crisfield, Varina E., S. Ellen Macdonald, and A. Joyce Gould. 2012. Effects of recreational traffic on Alpine plant communities in the Northern Canadian Rockies. *Arctic, Antarctic, and Alpine Research* 44(3):277–287.
- Department of Defense (DoD). 2014. Department of Defense Report to the Defense Base Closure and Realignment Commission, Department of the Army, Analysis and Recommendations, BRAC 2005, Volume III.
- . 2011. Instruction No. 4715.03. Subject: Natural Resources Conservation Program. Washington, DC: Office of the Under Secretary of Defense for Acquisition, Technology and Logistics (USD[AT&L]), <http://www.dtic.mil/whs/directives/corres/pdf/471503p.pdf>

- Doe, William W., Robert B. Shaw, Robert G. Bailey, David S. Jones, and Thomas E. Macia. 1999. Locations and environments of US Army training and testing lands: An ecoregional framework for assessment. *Federal Facilities Environmental Journal* 10(3):9–26.
- Duarte, Carlos M., Timothy M. Lenton, Peter Wadhams, and Paul Wassmann. 2012. Abrupt climate change in the Arctic. *Nature Climate Change* 2(2):60–62.
- Dzwonko, Zbigniew, and Stefania Loster. 1997. Effects of dominant trees and anthropogenic disturbances on species richness and floristic composition of secondary communities in Southern Poland. *Journal of Applied Ecology* 34(4):861–870.
- Elmqvist, Thomas, Carl Folke, Magnus Nyström, Garry Peterson, Jan Bengtsson, Brian Walker, and Jon Norberg. 2003. Response diversity, ecosystem change, and resilience. *Frontiers in Ecology and the Environment* 1(9):488–494.
- Environmental Systems Research Institute, Inc. (ESRI). 2011. *ArcGIS Desktop: Release 10*. Redlands, CA: Environmental Systems Research Institute.
- Ewing, P., W. Tarantino, and G. Parnell. 2006. Use of decision analysis in the Army base realignment and closure (BRAC) 2005 military value analysis. *Decision Analysis* 3(1):33–49.
- Fischer, E. M., and R. Knutti. 2015. Anthropogenic contribution to global occurrence of heavy-precipitation and high-temperature extremes. *Nature Climate Change* 5:560–564. doi:10.1038/nclimate2617, <http://www.nature.com/doi/10.1038/nclimate2617>
- Forbes, B. C., A. Tolvanen, K. Laine, and F. E. Wielgolaski. 2005. Rates and processes of natural regeneration in disturbed habitats. *Plant Ecology, Herbivory, and Human Impact in Nordic Mountain Birch Forests*, pp 193–202. Springer, http://link.springer.com/chapter/10.1007/3-540-26595-3_14
- Fortunel, Claire, Eric Garnier, Richard Joffre, Elena Kazakou, Helen Quested, Karl Grigulis, Sandra Lavorel, et al. 2009. Leaf traits capture the effects of land use changes and climate on litter decomposability of grasslands across Europe. *Ecology* 90(3):598–611.
- Francis, Robert A., Angela M. Gurnell, Geoffrey E. Petts, and Peter J. Edwards. 2005. Survival and growth responses of *Populus Nigra*, *Salix Elaeagnos* and *Alnus Incana* cuttings to varying levels of hydric stress. *Forest Ecology and Management* 210(1):291–301.
- Gallet, Sébastien, and Françoise ROZÉ. 2001. Resistance of Atlantic heathlands to trampling in Brittany (France): Influence of vegetation type, season and weather conditions. *Biological Conservation* 97(2):189–198.
- Greenberg, Cathryn H., Daniel G. Neary, Lawrence D. Harris, and Steven P. Linda. 1995. Vegetation recovery following high-intensity wildfire and silvicultural treatments in sand pine scrub. *American Midland Naturalist* 133(1):149–163.
- Grime, J. P., and B. D. Campbell. 1991. Growth rate, habitat productivity and plant strategy as predictors of stress response. *Response of Plants to Multiple Stresses*. New York: Academic Press, pp 143–159

- Hamberg, Leena, Minna Malmivaara-Lämsä, Susanna Lehvävirta, Robert B. O'Hara, and D. Johan Kotze. 2010. Quantifying the effects of trampling and habitat edges on forest understory vegetation—A field experiment. *Journal of Environmental Management* 91(9):1811-1820.
- Headquarters, Department of the Army (HQDA). 2013. *Guide to Army Real Property Category Codes*. Department of the Army Pamphlet (DA PAM) 415-28. Washington, DC: HQDA.
- Hill, Rachel, and Catherine Pickering. 2009. Differences in resistance of three subtropical vegetation types to experimental trampling. *Journal of Environmental Management* 90(2):1305-1312.
- Küchler, August Wilhelm. 1964. *Potential Natural Vegetation of the Conterminous United States*. Vol. 36. New York: American Geographical Society, <http://library.wur.nl/WebQuery/clc/357106>
- Kuss, Fred R., and Christine N. Hall. 1991. Ground flora trampling studies: Five years after closure. *Environmental Management* 15(5):715-727.
- Kutiel, P., E. Eden, and Y. Zhevelev. 2000. Effect of experimental trampling and off-road motorcycle traffic on soil and vegetation of stabilized coastal dunes, Israel. *Environmental Conservation* 27(01):14-23.
- Lane, Diana R., Debra P. Coffin, and William K. Lauenroth. 1998. Effects of soil texture and precipitation on above-ground net primary productivity and vegetation structure across the central grassland region of the United States. *Journal of Vegetation Science* 9(2):239-250.
- Liddle, Michael J. 1975. A selective review of the ecological effects of human trampling on natural ecosystems. *Biological Conservation* 7(1):17-36.
- Liddle, Michael. 1997. *Recreation Ecology: The Ecological Impact of Outdoor Recreation and Ecotourism*. London: Chapman & Hall Ltd.
- Li, Mei-Rong, David A. Wedin, and Larry L. Tieszen. 1999. C₃ and C₄ photosynthesis in *Cyperus* (*Cyperaceae*) in temperate Eastern North America. *Canadian Journal of Botany* 77(2):209-218.
- Lucas-Borja, M. E., F. Bastida, J. L. Moreno, César Nicolás, M. Andres, F. R. Lopez, and A. Del Cerro. 2011. The effects of human trampling on the microbiological properties of soil and vegetation in Mediterranean mountain areas. *Land Degradation & Development* 22(4):383-394.
- Ludwig, John A., Michael B. Coughenour, Adam C. Liedloff, and Rodd Dyer. 2001. Modelling the resilience of Australian savanna systems to grazing impacts. *Environment International* 27(2):167-172.
- MacGillivray, C. W., J. P. Grime, and the Integrated Screening Programme (ISP) Team. 1995. Testing predictions of the resistance and resilience of vegetation subjected to extreme events. *Functional Ecology*: 9:640-649.

- Mangan, Jennifer M., Jonathan T. Overpeck, Robert S. Webb, Carol Wessman, and Alexander F. H. Goetz. 2004. Response of Nebraska Sand Hills natural vegetation to drought, fire, grazing, and plant functional type shifts as simulated by the century model. *Climatic Change* 63(1-2):49–90.
- Mason, S., D. Newsome, S. Moore, and R. Admiraal. 2015. Recreational trampling negatively impacts vegetation structure of an Australian biodiversity hotspot. *Biodiversity and Conservation* 24(11):2685–2707.
- Monz, Christopher A., David N. Cole, Yu-Fai Leung, and Jeffrey L. Marion. 2010. Sustaining visitor use in protected areas: Future opportunities in recreation ecology research based on the USA experience. *Environmental Management* 45(3):551–562.
- NatureServe. 2015. *NatureServe Explorer: An Online Encyclopedia of Life*. Web application. Version 7.1, <http://www.natureserve.org/explorer>
- Newsome, David, Susan A. Moore, and Ross Kingston Dowling. 2012. *Natural Area Tourism: Ecology, Impacts and Management*. Vol. 58. Buffalo, NY: Channel View Publications.
- Papaik, M. J., and C. D. Canham. 2006. Species resistance and community response to wind disturbance regimes in northern temperate forests. *Journal of Ecology* 94(5):1011–1026.
- Pertierra, L. R., F. Lara, P. Tejedo, A. Quesada, and J. Benayas. 2013. Rapid denudation processes in cryptogamic communities from maritime Antarctica subjected to human trampling. *Antarctic Science* 25(2):318–328.
- Pescott, Oliver L., and Gavin B. Stewart. 2014. Assessing the impact of human trampling on vegetation: A systematic review and meta-analysis of experimental evidence. *PeerJ* 2:e360.
- Pickering, Catherine Marina. 2010. Ten factors that affect the severity of environmental impacts of visitors in protected areas. *Ambio* 39(1):70–77.
- Pickering, Catherine Marina, and Wendy Hill. 2007. Impacts of recreation and tourism on plant biodiversity and vegetation in protected areas in Australia. *Journal of Environmental Management* 85(4):791–800.
- Pickett, S. T. A., and P. S. White. 1985. The ecology of natural disturbance and patch dynamics, <http://library.wur.nl/WebQuery/clc/231473>
- Potito, Aaron P., and Susan W. Beatty. 2005. Impacts of recreation trails on exotic and ruderal species distribution in grassland areas along the Colorado front range. *Environmental Management* 36(2):230–236.
- Roovers, Pieter, Sara Baeten, and Martin Hermy. 2004. Plant species variation across path ecotones in a variety of common vegetation types. *Plant Ecology* 170(1):107–119.
- Sala, O. E., W. Joyce Parton, L. A. Joyce, and W. K. Lauenroth. 1988. Primary production of the central grassland region of the United States. *Ecology* 69(1):40–45.

- Speed, James D. M., Elisabeth J. Cooper, Ingibjörg S. Jónsdóttir, René Van Der Wal, and Sarah J. Woodin. 2010. Plant community properties predict vegetation resilience to herbivore disturbance in the Arctic. *Journal of Ecology* 98(5):1002–1013.
- Sun, Dan, and M. J. Liddle. 1993. The morphological responses of some Australian tussock grasses and the importance of tiller number in their resistance to trampling. *Biological Conservation* 65(1):43–49.
- Tolvanen, A., B. C. Forbes, K. E. Rytönen, and K. Laine. 2001. Regeneration of dominant plants after short-term pedestrian trampling in subarctic plant communities. *Nordic Mountain Birch Ecosystems*. Paris: UNESCO, pp 359–368, <http://www.cabdirect.org/abstracts/20013133595.html>
- U.S. Department of Agriculture (USDA). 2015. *PLANTS Database*. Web site. Greensboro, NC: USDA, Natural Resources Conservation Service (NRCS), National Plant Data Team, <http://plants.usda.gov>
- U.S. Fish and Wildlife Service (USFWS). 2015. National Wetlands Inventory. Web Site. Washington, DC: USFWS, <http://www.fws.gov/wetlands/>
- Vetter, Susanne. 2009. Drought, change and resilience in South Africa's arid and semi-arid rangelands. *South African Journal of Science* 105(1-2):29–33.
- Waller, S. S., and J. K. Lewis. 1979. Occurrence of C₃ and C₄ photosynthetic pathways in North American grasses. *Journal of Range Management* 32(1):12–28.
- Whinam, Jennie, and Nicole M. Chilcott. 2003. Impacts after four years of experimental trampling on Alpine/sub-Alpine environments in Western Tasmania. *Journal of Environmental Management* 67(4):339–351.
- Whittaker, Robert Harding. 1975. *Communities and Ecosystems*. New York: MacMillan. <http://www.cabdirect.org/abstracts/19740615709.html>
- Willard, Beatrice E., David J. Cooper, and Bruce C. Forbes. 2007. Natural regeneration of Alpine tundra vegetation after human trampling: A 42-year dataset from Rocky Mountain National Park, Colorado, USA. *Arctic, Antarctic, and Alpine Research* 39(1):177-183.
- Yorks, Terence Preston, Neil E. West, Richard J. Mueller, and Steven D. Warren. 1997. Tolerant of traffic by vegetation: Life form conclusions and summary extracts from a comprehensive data base. *Environmental Management* 21(1):121-131.
- Zoller, Nancy. 2016. *Military Value Analysis VI*. Final Report, CAA-TBD. Fort Belvoir, VA: Center for Army Analysis.

Acronyms and Abbreviations

Term	Definition
AAP	Army Ammunition Plant
ANSI	American National Standards Institute
BRAC	Base Realignment and Closure
CAA	Center for Army Analysis
CEERD	US Army Corps of Engineers, Engineer Research and Development Center
CERL	Construction Engineering Research Laboratory
CNN	Cable News Network
CONUS	Continental United States
CTC	Combat Training Center
DA PAM	Department of the Army Pamphlet
DoD	U.S. Department of Defense
ERDC	U.S. Army Engineer Research and Development Center
ERDC-CERL	Engineer Research and Development Center, Construction Engineering Research Laboratory
ESRI	Environmental Systems Research Institute, Inc.
FMR	Florence Military Reservation
GIS	Geographic Information System
HQDA	Headquarters, Department of the Army
HQUSACE	Headquarters, U.S. Army Corps of Engineers
ISP	Installation Sustainability Planning
ITC	Installation Training Capacity
IUCN	International Union for Conservation of Nature and Natural Resources
MAC	Maneuver Area Capacity
MTA	Military Training Area
MTC	Maneuver Training Center
MTC-H	Maneuver Training Center-H
MVA	Military Value Analysis
NRCS	Natural Resources Conservation Service
NSN	National Supply Number
NTC	National Training Center
NW	Northwest
OCONUS	Outside Continental United States
OMB	Office of Management and Budget
PO	Post Office
RRVAL	Resistance and Resilience Values
SAR	Same As Report
SF	Standard Form
TS	Training Site
UNESCO	United Nations Educational, Scientific, and Cultural Organization

Term	Definition
USDA	U.S. Department of Agriculture
USD(AT&L)	Office of the Under Secretary of Defense for Acquisition, Technology and Logistics
USFWS	US Fish and Wildlife Service
USGS	U.S. Geological Survey
VTS	Volunteer Training Site

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14. ABSTRACT Military training inevitably leads to land degradation; however, some ecosystems have higher resistance and resilience to training based on the functional traits of existing vegetation, making them preferred for long-term use. This work estimated resistance and resilience for the continental United States using dominant plant species for numerous plant communities, resistance and resilience values for plant functional groups, and national community vegetation maps. Two datasets were combined to obtain greater detail and values for all land area. Results indicate that graminoid communities have the highest resistance values, and shrublands the lowest; and that eastern deciduous forests and prairies have the highest resilience values, and evergreen forests and shrublands the lowest. This lists the resistance and resilience values of a selection of Army installations using both datasets and a new combined metric. This new method will help the Army determine the portfolio of installations that will best meet its future training land requirements.						
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