



Vegetation Classification List Update for Big Bend National Park and Rio Grande National Wild and Scenic River

Natural Resource Report NPS/CHDN/NRR—2011/299



ON THE COVER

Chisos Basin, as viewed from Casa Grande Peak.
Image provided by NPS

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Executive Summary

The National Park Service-Chihuahuan Desert Network (NPS-CHDN), Big Bend National Park (BIBE), and Rio Grande National Wild and Scenic River (RIGR), with assistance of the National Vegetation Inventory Program (NVIP) staff, are preparing to conduct vegetation classification plot sampling in support of creating a vegetation map and geodatabase beginning in September 2010. As part of study plan (NPS-BIBE/RIGR 2010) preparation, a preliminary list of 33 ecological systems and component vegetation alliances and plant associations was prepared from the NatureServe Explorer Web site (2010) and vetted by the BIBE/RIGR species list to inform field crews, improve planning decisions, and generate cost estimates for project tasks.

The purpose of Task 3.0: Vegetation Classification List Update for BIBE/RIGR, is to refine and, when appropriate, update the preliminary classification list of vegetation occurring within BIBE/RIGR to the vegetation alliance and plant association levels of the National Vegetation Classification (NVC) maintained by NatureServe. The sources of new information include the legacy data evaluated under Task 1.0 of this project and discussions with researchers sampling classification data on-park.

The plant species list provided by the NPS-CHDN Biological Science Technician Missy Powell and BIBE/RIGR Botanist Joe Sirotnak numbered 1,701 species and varieties (NPS-BIBE/RIGR 2010) and, with more than 40 legacy research projects evaluated, formed the basis for selecting and updating potential vegetation alliances and plant associations occurring within BIBE/RIGR. The updated list presented in tabular form by physiognomic types herein presents 123 vegetation alliances and 192 plant associations that potentially occur in BIBE/RIGR. There are 34 potential forest and woodland alliances comprising 63 potential associations; 42 potential shrubland, dwarf-shrubland, and shrub herbaceous alliances comprising 80 potential associations; and 47 potential herbaceous and sparse alliances comprising 49 potential associations. As deemed appropriate from the NVC and from legacy research, semi-natural vegetation types characterized by nonnative plant species were included in this classification (representing nine vegetation alliances and seven plant associations).

This vegetation classification list will be invaluable as a guidance tool for field crews to apply provisional names to vegetation stands sampled in the field with classification plots, prior to formal classification using statistical analyses. By reviewing this classification list, field crews will also be able to determine when they have encountered a previously undescribed vegetation type. A structured alliance/association list also allows field crews to tally classification plot and observation point numbers on a daily or trip basis to reduce unnecessary field sampling and also to ensure distribution of plots to sample diversity parkwide, saving project time and funding while ensuring thorough vegetation type sampling.

Introduction

CHDN and BIBE/RIGR, with the assistance of the NVIP staff, are preparing to conduct vegetation classification plot sampling in support of creating a vegetation map and geodatabase beginning in September 2010. Field crews benefit from having a preliminary list of vegetation alliances and plant associations from which to inform landscape observations of vegetation stands, classification plot site selection, plot density, and community type decisions when sampling vegetation types for classification under the National Vegetation Classification (NVC). The list provided herein was prepared using legacy data (analyzed in a companion research report, Task 1.0: Legacy Data Evaluation for BIBE/RIGR), interviews with researchers directly involved in legacy data gathering, the BIBE/RIGR plant species list (provided as Appendix 1), and NatureServe's Explorer Web site (NatureServe 2010).

The NVC, as developed by The Nature Conservancy (TNC) and currently maintained by NatureServe, represents a national system containing eight levels: (1) Formation Class, (2) Formation Subclass, (3) Formation, (4) Division, (5) Macrogroup, (6) Group, (7) Alliance, and (8) Association with the finest level being the plant association. Alliances are usually aggregations of associations that are physiognomically uniform and share one or more characteristic or diagnostic species. An association is defined as a plant community or type with a consistent species composition, uniform physiognomy, and homogenous habitat conditions (Flahault and Schroter 1910). The plant association or community type is determined by environmental patterns and disturbance processes.

Associations are separated from alliances through the use of total floristic composition and are named by the most dominant and/or indicator species. For the name or title assigned to an association or alliance, a single dominant species may be used (*Prosopis glandulosa* Woodland). If two dominant species of the same stratum are used they are separated by a dash (*Larrea tridentata* – *Parthenium incanum* Shrubland). If two dominant species occur in different strata, then a slash is used to separate them (*Prosopis glandulosa* / *Bouteloua eriopoda* Woodland). Parentheses are used when the diagnostic species are not consistently present in the association or alliance (*Disticlis spicata* – [*Hordeum jubatum*] Temporarily Flooded Herbaceous Alliance).

The purpose of the NVC is to provide a complete, standardized listing and description of all vegetation types that represent variation in biological diversity at the community level and to identify those communities that require protection (Grossman et al. 1994). The NVC focuses on existing vegetation rather than potential natural vegetation, climax vegetation, or physical habitats. Because it is not restricted to static vegetation types, classification units are useful both for inventory, site description, and as the basis for building dynamic ecological models. The NVC also includes vegetation along the natural-invasive-cultural (semi-natural and modified) continuum, but it emphasizes natural communities as the focus of biodiversity protection.

The project minimum mapping unit (MMU) is 0.5 hectare (1.24 acres) and vegetation stands are sampled using classification plots. Typically, between three to five classification plots are required to adequately describe most plant associations. Small, unique vegetation patches or stands are often termed “park specials” in the NVIP because of their value for overall management prescriptions, but they are less than the project MMU. Resource management staff

at BIBE/RIGR identified such stands of unique vegetation at the BIBE/RIGR Study Plan (2010) kick-off meeting.

Background

The following discussion was excerpted in part from the BIBE/RIGR Study Plan (2010) and users are encouraged to review the plan to place this classification research study in context with the larger project. The Rio Grande, Chisos Mountains, and other high-elevation sites support most of the woodland and forest vegetation types, which cover less than 10% of the parks. The majority of BIBE/RIGR vegetation consists of thornscrub shrubland communities, stands of desert grassland, and sparsely vegetated rock outcrops.

The Big Bend region has been classified as the Chihuahuan Desert Province (Dry Domain [300], Tropical/Subtropical Desert Division [320]) (Bailey 1995). The Texas Parks and Wildlife Department (TPWD 2010) describe this region and reach of the Rio Grande under the Chihuahuan Biotic Province; Trans-Pecos Natural Region; and the Level III Ecoregion of the Chihuahuan Desert. Six major vegetation types are described in the BIBE Fire Management Plan (2005); which include: (1) Floodplain/Upland Riparian, (2) Scrub Desert, (3) High Desert Grasslands, (4) Shrub Woodland, (5) Grassy Woodlands, and (6) Forests. Major vegetation types or categories were defined by Plumb (1988 and 1993) and Brown (1994 and 2000) and are summarized from the BIBE Fire Management Plan (2005) and the RIGR General Management Plan (2004a) as follows:

Floodplain/Upland Riparian: consists of two general cover-mapping categories - Mixed Riparian and Desert Willow from Plumb (1993) formed this vegetation category. The Rio Grande with a high water table and dependable year-round flow supports dense stands of vegetation, and although approximately 5% to 10% of the project area, forms a vital habitat for wildlife. Upstream dams in New Mexico and Colorado now capture spring floodwaters. The Rio Conchos, 100 miles upstream, draining Mexican highlands and smaller tributaries provide valuable surface flows. Upland Springs: springs, seeps and tinajas provide water for wildlife and occur regularly in the mountains and on the low-elevation desert floor. Salt-cedar (*Tamarix* spp.) is being systematically removed from springs and seeps allowing native plants, including Fremont cottonwood (*Populus fremontii*) and honey mesquite (*Prosopis glandulosa*) trees, to reestablish.

Scrub Desert: this physiognomic type was compiled from five cover-mapping categories from Plumb (1993); Creosote bush-Lechuguilla-Grass, Creosote bush-Lechuguilla-Prickly Pear, Creosote bush-Tarbrush, Creosote bush-Yucca-Grass, and Lechuguilla-Candellia-Hetchia. Desert scrub is characterized by shrubs (creosote bush, mariola, and ocotillo) and succulents (prickly pear, lechuguilla, and Texas hetchia or false-agave). Grasses are understory and usually provide insufficient fuels to carry fire. Scrub Desert occurs over 50% of the park between the low-lying floodplains (~1,700 ft) to mid-elevation desert grasslands (~3,000 ft).

High Desert Grasslands: represent the most diverse plant communities exhibiting the highest species per unit area. High desert grasslands cover about 40% of BIBE ranging from ~3,000 ft to ~5,000 ft elevation with scattered plants occurring at higher elevations of the Chisos Mountains.

High Desert Grasslands support some shrubs, low-growing trees, and cacti that are largely confined to drainages (supporting little grass cover) and to areas of rocky and shallow soils.

Shrub Woodland: this vegetation structure includes three cover-mapping categories from Plumb (1993): they are Mixed Scrub, Oak Scrub, and Mixed Oak-Shrub Woodlands. Shrubby woodlands include many that are scattered on the foothills and slopes of the Chisos and Dead Horse (Sierra del Caballo Muerto) mountains. Elevation range typically occupied by this type varies from ~4,500 ft at Green Gulch to ~5,500 ft near Chisos Basin.

Grassy Woodlands: include three cover-mapping categories from Plumb (1993); they are Pinyon-Juniper-Grass, Pinyon-Oak-Juniper, and Forest-Meadow. Elevation ranges from ~5,500 ft to ~7,200 ft where most stands occur.

Forest: stands include two cover-mapping categories from Plumb (1993); they are Pinyon-Talus and Oak-Ponderosa Pine-Cypress. Forests occur above ~6,000 ft and form mosaics of conifer stands and grassy woodlands.

Distinct Forest and Woodland Populations: Arizona cypress and Douglas-fir in Boot Canyon, red oak in West Chisos Mountains, quaking aspen on the northwest side of Emory Peak, one lateleaf oak, small stands of netleaf oak in the high Chisos Mountains, Texas madrone on north-facing slopes and in canyons, and Chisos hophornbeam on slopes north of Emory Peak and Crown Mountain (also in Boot Canyon, near Pinnacles Trail, and upper Cattail Canyon). Rare forest stands include ponderosa pine in Boot Canyon, Pine Canyon, and Crown Mountain; bigtooth maple in canyons and on north-facing slopes; species of orchids scattered throughout the Chisos Mountains on appropriate habitat; and Guadalupe fescue on the moist slopes of Boot Canyon.

Project area vegetation distribution is influenced by several factors (ecologic drivers) that include hydrology, elevation, slope, aspect/slope exposure, precipitation patterns, temperature extremes, topographic position, geology, and soils. The environmental drivers have resulted in a unique assemblage of plant species and plant communities. The environmental drivers are discussed in detail and used to prepare bio-physical unit maps in support of field crews in the companion study (Task 2.0: Gradsect and Field Sampling Plan for BIBE/RIGR).

Rainfall runoff flows to the Rio Grande via desert washes, arroyos, and Terlingua and Tornillo creeks within BIBE. Flows from the Rio Conchos emanate from Mexico approximately 100 miles upstream from BIBE and contribute to surface and groundwater quantities in the BIBE/RIGR reach. The Rio Grande annual flows and sediment delivery/removal have been controlled by upstream dams and groundwater pumping for many decades resulting in diminished overbank flooding and allowing bank-armoring vegetation to establish including salt-cedar (*Tamarix* spp.), giant reed (*Arundo donax*), Johnson grass (*Sorghum halepense*), buffelgrass (*Cenchrus ciliaris*), and Bermuda grass (*Cynodon dactylon*). These invasive, nonnative species have become a management concern requiring park resources to monitor populations and attempt focused control and eradication. Water quality may also affect riparian and wetland plant communities along the Rio Grande due to the release of treated sewage from several cities upstream of RIGR. Nonnative vegetation types are routinely sampled for classification and mapping purposes under the NVIP.

Legacy Data

Legacy data are existing qualitative and quantitative vegetation information collected in support of a variety of BIBE/RIGR research projects over the years. Please refer to the companion study (Task 1.0: Legacy Data Evaluation for BIBE/RIGR) and the BIBE/RIGR Study Plan (2010) for an in-depth summary of this project task.

Plant species list development for BIBE/RIGR was critical to this project task and two principle legacy studies were undertaken to prepare a comprehensive floristic inventory. In the first, Dr. Richard Worthington (2002) submitted a working draft of plant species known to occur in BIBE/RIGR. The tabular data were divided into families and each taxa was described by scientific name and author, common name, and known location within the park units. Listed were 73 species of lichens, liverworts, and bryophytes and 1,013 species of vascular plants (including club mosses and ferns and fern allies).

Fenstermacher et al. (2008) conducted a floristic inventory from 2003-2006 over approximately 176,800 acres (71,548 ha) including the Dead Horse Mountains (Sierra del Caballo Muerto) in the northeastern and eastern portions of BIBE. The project elevation range was approximately 4,100 feet (1,250 meters); of the 3,796 plant specimens collected or examined as herbarium specimens, 662 species, 344 genera, and 91 families of vascular plants were identified. Twenty-four plant species are nonnative and of these three species are considered noxious and six species are considered invasive. Of significance floristically are the co-dominance of the families Poaceae and Asteraceae in terms of number of plant species per the total flora. Previously unknown BIBE plant species determined from this study were added to the species list provided in Appendix 1.

Also described in this paper are general habitats and common vegetation types that support a majority of the plant species, they are: (1) Mixed Desert Scrub; (2) Sotol-Yucca Grassland; (3) Chaparral; (4) Desert Canyon; (5) Rio Grande Riparian Corridor; (6) and Sandy Desert Arroyo. The dominant species comprising these habitats and types were used in part to develop the potential list of BIBE/RIGR vegetation alliances and plant associations (Table 1).

Results

The results of this research study are presented in table 1; a list of 123 vegetation alliances and 192 plant associations was prepared to inform field crew classification plot sampling and guide CHDN-BIBE/RIGR planning decisions in terms of timing and costs. A field oversight trip by Cogan Technology, Inc., ecologists on December 7, 2009, confirmed the presence of several of the upland and riparian/wetland plant communities included on the list. The final project classification list will appear in the final project report and will be based primarily on new plot data collected during 2010 and 2011 supplemented by legacy data. Additionally, an updated species list will be appended to the project final report and will be available in the project geodatabase.

The provisional vegetation classification list presented herein supports two BIBE/RIGR Study Plan assumptions relative to field data collection: (1) sufficient vegetation data occurs for this area that a relatively accurate preliminary list of ecological systems, vegetation alliances, and plant associations was created; and (2) new plant associations and possibly vegetation alliances will be classified from the plot database following field sampling for plots and accuracy assessment points. Vegetation alliances and plant associations listed in table 1 and having an element code (A. or CEG, respectively) have been previously classified and described on the NatureServe Explorer Web site (www.natureserve.org/explorer/servlet/NatureServe?init=Ecol).

For the state of Texas, the NVC currently includes 118 environmental systems, 248 vegetation alliances, and 525 plant associations (NatureServe 2010). When vetted with the BIBE/RIGR species list of more than 1,700 taxa, the habitats known for the Trans-Pecos Region and acquired from more than 40 legacy studies, and an oversight field trip, this task resulted in identification of 33 ecological systems, 123 vegetation alliances, and 192 plant associations as possibly occurring within BIBE/RIGR. The BIBE/RIGR vegetation inventory area consists of approximately one million acres and an adequate level of sampling determined in the BIBE/RIGR Study Plan (2010) was estimated to be between 800 to 1,200 classification plots (the wide range accounts for some legacy plots potentially being determined useful instead of all new sampling).

Because vegetation alliances and plant associations can occur across more than one ecological system, that breakdown (featured in the BIBE/RIGR Study Plan [2010]) is not used in this task to avoid confusion and repetition. Rather, the list of plant communities presented herein is alphabetized and separated by physiognomic or structural types to be easily and efficiently accessed by field crews. Table 1A includes the forest and woodland types which number 34 vegetation alliances and 63 plant associations; Table 1B includes the shrubland, dwarf-shrubland, and shrub herbaceous types which number 42 vegetation alliances and 80 plant associations; and Table 1C includes the herbaceous and sparse types which number 47 vegetation alliances and 49 plant associations.

Two important uses of the BIBE/RIGR classification list by field crews are readily identified. The first important use includes documenting vegetation classification plot and observation point collection on a daily and field trip basis to avoid wasteful oversampling, but also to guide representative sampling across the project area so each type is represented by its diversity

parkwide. Rare types may be sampled as little as one time while common types may receive 10 to 15 classification plots to document regional diversity. The second important use is to apply the correct provisional plant community name sampled on the vegetation classification plot field form or in the electronic data logger.

Table 1-A. NVC Forest and Woodland Vegetation Alliances and Plant Association Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Acacia farnesiana</i> - <i>Parkinsonia aculeata</i> Temporarily Flooded Forest Alliance - <i>Acacia farnesiana</i> - <i>Parkinsonia aculeata</i> Temporarily Flooded Forest	Huisache - Retama Temporarily Flooded Forest Alliance - Huisache - Retama Temporarily Flooded Forest	A.1908 CEGL007755
<i>Acacia farnesiana</i> Woodland Alliance - <i>Acacia farnesiana</i> - (<i>Prosopis glandulosa</i>) Woodland	Huisache Woodland Alliance - Huisache - (Honey Mesquite) Woodland	A.660 CEGL002131
<i>Acer grandidentatum</i> Montane Forest Alliance - <i>Acer grandidentatum</i> - <i>Quercus gravesii</i> Forest - <i>Acer grandidentatum</i> - <i>Quercus muehlenbergii</i> Forest	Bigtooth Maple Montane Forest Alliance - Bigtooth Maple - Chisos Red Oak Forest - Bigtooth Maple - Chinkapin Oak Forest	A.265 CEGL004548 CEGL004547
<i>Arbutus xalapensis</i> - <i>Acer grandidentatum</i> - <i>Quercus</i> spp. Forest Alliance - <i>Arbutus xalapensis</i> - <i>Quercus grisea</i> - <i>Juniperus deppeana</i> - <i>Acer grandidentatum</i> - <i>Quercus muehlenbergii</i> Forest - <i>Arbutus xalapensis</i> - <i>Quercus grisea</i> - <i>Juniperus flaccida</i> - <i>Acer grandidentatum</i> - <i>Quercus gravesii</i> Forest	Texas Madrone - Bigtooth Maple - Oak species Forest Alliance - Texas Madrone - Gray Oak - Alligator Juniper - Bigtooth Maple - Chinkapin Oak Forest - Texas Madrone - Gray Oak - Weeping Juniper - Bigtooth Maple - Chisos Red Oak Forest	A.368 CEGL004504 CEGL004553
<i>Carya illinoensis</i> - (<i>Celtis laevigata</i>) Temporarily Flooded Forest Alliance - <i>Carya illinoensis</i> - <i>Celtis laevigata</i> Forest	Pecan - (Sugarberry) Temporarily Flooded Forest Alliance - Pecan - Sugarberry Forest	A.282 CEGL002087
<i>Cupressus arizonica</i> Forest Alliance	Arizona Cypress Forest Alliance	A.163
<i>Juniperus ashei</i> Woodland Alliance - <i>Juniperus ashei</i> - <i>Quercus buckleyi</i> Woodland - <i>Juniperus ashei</i> - <i>Quercus sinuata</i> var. <i>breviloba</i> Woodland	Ashe's Juniper Woodland Alliance - Ashe's Juniper - Buckley Oak Woodland - Ashe's Juniper - White Shin Oak Woodland	A.501 CEGL004172 CEGL004170
<i>Juniperus coahuilensis</i> Woodland Alliance - <i>Juniperus coahuilensis</i> / <i>Bouteloua curtipendula</i> - <i>Bouteloua gracilis</i> Woodland - <i>Juniperus coahuilensis</i> / <i>Quercus turbinella</i> Woodland	Redberry Juniper Woodland Alliance - Redberry Juniper / Sideoats Grama - Blue Grama Woodland - Redberry Juniper / Turbinella Live Oak Woodland	A.503 CEGL004584 CEGL000702
<i>Juniperus deppeana</i> Woodland Alliance - <i>Juniperus deppeana</i> / <i>Bouteloua gracilis</i> Woodland - <i>Juniperus deppeana</i> / <i>Bouteloua hirsuta</i> Woodland - <i>Juniperus deppeana</i> - <i>Juniperus monosperma</i> - <i>Quercus grisea</i> / <i>Rhus trilobata</i> Woodland - <i>Juniperus deppeana</i> / <i>Muhlenbergia emersleyi</i> Woodland	Alligator Juniper Woodland Alliance - Alligator Juniper / Blue Grama Woodland - Alligator Juniper / Hairy Grama Woodland - Alligator Juniper - One-seed Juniper - Gray Oak / Skunkbush Sumac Woodland - Alligator Juniper / Bull Muhly Woodland	A.534 CEGL000693 CEGL000694 CEGL000696 CEGL000697
<i>Juniperus monosperma</i> Woodland Alliance - <i>Juniperus monosperma</i> / <i>Bouteloua curtipendula</i> Woodland - <i>Juniperus monosperma</i> / <i>Bouteloua hirsuta</i> Woodland - <i>Juniperus monosperma</i> - <i>Quercus mohriana</i> Woodland	One-seed Juniper Woodland Alliance - One-seed Juniper / Sideoats Grama Woodland - One-seed Juniper / Hairy Grama Woodland - One-seed Juniper - Mohr Oak Woodland	A.504 CEGL000708 CEGL000711 CEGL002120
<i>Juniperus pinchotii</i> Woodland Alliance - <i>Juniperus pinchotii</i> / <i>Bouteloua curtipendula</i> - <i>Bouteloua hirsuta</i> Woodland - <i>Juniperus pinchotii</i> / <i>Bouteloua gracilis</i> Woodland	Pinchot's Juniper Woodland Alliance - Pinchot's Juniper / Sideoats Grama - Hairy Grama Woodland - Pinchot's Juniper / Blue Grama Woodland	A.505 CEGL004940 CEGL002122

Table 1-A. NVC Forest and Woodland Vegetation Alliances and Plant Association Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Pinus cembroides</i> – <i>Quercus gravesii</i> Forest Alliance - <i>Pinus cembroides</i> - <i>Quercus gravesii</i> - <i>Juniperus flaccida</i> / <i>Salvia regla</i> / <i>Piptochaetium fimbriatum</i> Forest - <i>Pinus cembroides</i> - <i>Quercus grisea</i> / <i>Agave lechuguilla</i> / <i>Bouteloua curtipendula</i> Woodland - <i>Pinus cembroides</i> - <i>Quercus grisea</i> - <i>Juniperus flaccida</i> / <i>Salvia regla</i> / <i>Muhlenbergia emersleyi</i> Woodland - <i>Pinus cembroides</i> - <i>Quercus grisea</i> / <i>Muhlenbergia montana</i> - <i>Piptochaetium pringlei</i> Woodland - <i>Pinus cembroides</i> - <i>Quercus grisea</i> - <i>Quercus emoryi</i> - <i>Juniperus flaccida</i> / <i>Salvia regla</i> / <i>Bouteloua curtipendula</i> Woodland - <i>Pinus cembroides</i> - <i>Quercus grisea</i> - <i>Quercus emoryi</i> / <i>Mimosa dysocarpa</i> / <i>Bouteloua gracilis</i> Woodland <i>Pinus cembroides</i> Woodland Alliance	Mexican Pinyon Pine – Chisos Red Oak Forest Alliance - Mexican Pinyon - Chisos Red Oak - Weeping Juniper / Royal Sage / Pinyon Speargrass Forest - Mexican Pinyon – Gray Oak / Lechuguilla / Sideoats Grama Woodland - Mexican Pinyon - Gray Oak - Weeping Juniper / Royal Sage / Bull Muhly Woodland - Mexican Pinyon - Gray Oak / Mountain Muhly - Pringle's Speargrass Woodland - Mexican Pinyon - Gray Oak - Emory Oak - Weeping Juniper / Royal Sage / Sideoats Grama Woodland - Mexican Pinyon - Gray Oak - Emory Oak / Velvetpod Mimosa / Blue Grama Woodland Mexican Pinyon Woodland Alliance	A.392 CEGL004600 CEGL003551 CEGL004596 CEGL004599 CEGL004597 CEGL004598 A.510
<i>Pinus edulis</i> - (<i>Juniperus</i> spp.) Woodland Alliance - <i>Pinus edulis</i> - (<i>Juniperus monosperma</i>) / <i>Bouteloua gracilis</i> Woodland	Two-needle Pinyon – (<i>Juniper</i> species) Woodland Alliance - Two-needle Pinyon - (<i>One-seed Juniper</i>) / Blue Grama Woodland	A.516 CEGL002151
<i>Pinus ponderosa</i> Forest Alliance - <i>Pinus ponderosa</i> – <i>Pinus strobiformis</i> Forest <i>Pinus ponderosa</i> Woodland Alliance - <i>Pinus ponderosa</i> / <i>Bouteloua gracilis</i> Woodland - <i>Pinus ponderosa</i> / <i>Festuca arizonica</i> Woodland - <i>Pinus ponderosa</i> / <i>Muhlenbergia montana</i> Woodland - <i>Pinus ponderosa</i> / <i>Quercus emoryi</i> Woodland - <i>Pinus ponderosa</i> / <i>Quercus gambelii</i> Woodland - <i>Pinus ponderosa</i> / <i>Quercus grisea</i> Woodland - <i>Pinus ponderosa</i> / <i>Quercus hypoleucoides</i> Woodland	Ponderosa Pine Forest Alliance - Ponderosa Pine – Southwestern White Pine Forest Ponderosa Pine Woodland Alliance - Ponderosa Pine / Blue Grama Woodland - Ponderosa Pine / Arizona Fescue Woodland - Ponderosa Pine / Mountain Muhly Woodland - Ponderosa Pine / Emory Oak Woodland - Ponderosa Pine / Gambel Oak Woodland - Ponderosa Pine / Gray Oak Woodland - Ponderosa Pine / Silverleaf Oak Woodland	A.124 CEGL007091 A.530 CEGL000848 CEGL000856 CEGL000862 CEGL000869 CEGL000870 CEGL000871 CEGL000872
<i>Pinus remota</i> Woodland Alliance - <i>Pinus remota</i> - <i>Juniperus ashei</i> - <i>Quercus</i> spp. Woodland - <i>Pinus remota</i> / <i>Juniperus pinchotii</i> - <i>Quercus mohriana</i> Woodland	Papershell Pinyon Woodland Alliance - Papershell Pinyon - Ashe's Juniper - Oak species Woodland - Papershell Pinyon / Pinchot's Juniper - Mohr Oak Woodland	A.523 CEGL002124 CEGL004585
<i>Populus deltoides</i> Temporarily Flooded Forest Alliance - <i>Populus deltoides</i> - <i>Celtis laevigata</i> / <i>Sapindus saponaria</i> Woodland - <i>Populus deltoides</i> - <i>Salix nigra</i> Woodland - <i>Populus deltoides</i> ssp. <i>wislizeni</i> / <i>Schizachyrium scoparium</i> Woodland - <i>Populus deltoides</i> (ssp. <i>wislizeni</i> , ssp. <i>monilifera</i>) / <i>Salix exigua</i> Woodland	Eastern Cottonwood Temporarily Flooded Forest Alliance - Eastern Cottonwood - Sugarberry / Wingleaf Soapberry Woodland - Eastern Cottonwood / Black Willow Woodland - Rio Grande Cottonwood / Little Bluestem Woodland - (Rio Grande Cottonwood, Plains Cottonwood) / Coyote Willow Woodland	A.290 CEGL005025 CEGL004919 CEGL005973 CEGL002685
<i>Populus fremontii</i> Temporarily Flooded Woodland Alliance - <i>Populus fremontii</i> - <i>Fraxinus velutina</i> Woodland - <i>Populus fremontii</i> - <i>Salix gooddingii</i> Woodland	Fremont Cottonwood Temporarily Flooded Woodland Alliance - Fremont Cottonwood - Velvet Ash Woodland - Fremont Cottonwood - Goodding's Willow Woodland	A.644 CEGL000942 CEGL000944

Table 1-A. NVC Forest and Woodland Vegetation Alliances and Plant Association Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Populus tremuloides</i> Forest Alliance	Quaking Aspen Forest Alliance	A.274
<i>Prosopis glandulosa</i> Temporarily Flooded Woodland Alliance - <i>Prosopis glandulosa</i> Temporarily Flooded Woodland <i>Prosopis glandulosa</i> Woodland Alliance	Honey Mesquite Temporarily Flooded Woodland Alliance - Honey Mesquite Temporarily Flooded Woodland Honey Mesquite Woodland Alliance	A.637 CEGL004934 A.611
<i>Pseudotsuga menziesii</i> Forest Alliance - <i>Pseudotsuga menziesii</i> / <i>Festuca arizonica</i> Forest - <i>Pseudotsuga menziesii</i> / <i>Muhlenbergia montana</i> Forest - <i>Pseudotsuga menziesii</i> / <i>Quercus gambelii</i> Forest - <i>Pseudotsuga menziesii</i> / <i>Quercus rugosa</i> Forest	Douglas-fir Forest Alliance - Douglas-fir / Arizona Fescue Forest - Douglas-fir / Mountain Muhly Forest - Douglas-fir / Gambel Oak Forest - Douglas-fir / Netleaf Oak Forest	A.157 CEGL000433 CEGL000443 CEGL000452 CEGL000454
<i>Quercus arizonica</i> Woodland Alliance - <i>Quercus arizonica</i> / <i>Bouteloua curtipendula</i> Woodland	Arizona White Oak Woodland Alliance - Arizona White Oak / Sideoats Grama Woodland	A.482 CEGL000680
<i>Quercus emoryi</i> Woodland Alliance - <i>Quercus emoryi</i> / <i>Bouteloua curtipendula</i> Woodland - <i>Quercus emoryi</i> / <i>Muhlenbergia emersleyi</i> Woodland	Emory Oak Woodland Alliance - Emory Oak / Sideoats Grama Woodland - Emory Oak / Bull Muhly Woodland	A.483 CEGL000683 CEGL000685
<i>Quercus fusiformis</i> Woodland Alliance - <i>Quercus fusiformis</i> - <i>Quercus buckleyi</i> / <i>Quercus sinuata</i> - (<i>Juniperus ashei</i>) Woodland - <i>Quercus fusiformis</i> / <i>Schizachyrium scoparium</i> Woodland <i>Quercus fusiformis</i> – <i>Celtis laevigata</i> var. <i>reticulata</i> Woodland Alliance - <i>Quercus fusiformis</i> - (<i>Celtis laevigata</i> var. <i>reticulata</i> , <i>Ulmus crassifolia</i>) Woodland	Plateau Oak Woodland Alliance - Plateau Oak - Buckley Oak / Bastard Oak - (Ashe's Juniper) Woodland - Plateau Oak / Little Bluestem Woodland Plateau Oak – Netleaf Hackberry Woodland Alliance - Plateau Oak - (Netleaf Hackberry, Cedar Elm) Woodland	A.477 CEGL004215 CEGL002115 A.663 CEGL002153
<i>Quercus grisea</i> Woodland Alliance - <i>Quercus grisea</i> / <i>Bouteloua curtipendula</i> Woodland - <i>Quercus grisea</i> / <i>Juniperus deppeana</i> Woodland	Gray Oak Woodland Alliance - Gray Oak / Sideoats Grama Woodland - Gray Oak / Alligator Juniper Woodland	A.478 CEGL000689 CEGL003521
<i>Quercus laceyi</i> Woodland Alliance - <i>Quercus laceyi</i> - <i>Juniperus ashei</i> Woodland	Lacey Oak Woodland Alliance - Lacey Oak - Ashe's Juniper Woodland	A.616 CEGL002136
<i>Salix exigua</i> Seasonally Flooded Woodland Alliance	Coyote Willow Seasonally Flooded Woodland Alliance	A.649
<i>Salix gooddingii</i> Temporarily Flooded Woodland Alliance - <i>Salix gooddingii</i> Woodland - <i>Salix gooddingii</i> - <i>Fraxinus velutina</i> Temporarily Flooded Woodland	Goodding's Willow Temporarily Flooded Woodland Alliance - Goodding's Willow Woodland - Goodding's Willow - Velvet Ash Temporarily Flooded Woodland	A.640 CEGL002743 CEGL003729
<i>Salix nigra</i> Seasonally Flooded Forest Alliance - <i>Salix nigra</i> / (<i>Cephalanthus occidentalis</i>) Forest - <i>Salix nigra</i> - (<i>Fraxinus pennsylvanica</i> , <i>Acacia farnesiana</i>) Forest <i>Salix nigra</i> Temporarily Flooded Forest Alliance - <i>Salix nigra</i> Forest	Black Willow Seasonally Flooded Forest Alliance - Black Willow / (Common Buttonbush) Forest - Black Willow - (Green Ash, Huisache) Forest Black Willow Temporarily Flooded Forest Alliance - Black Willow Forest	A.334 CEGL004773 CEGL008481 A.297 CEGL002103
<i>Sapindus saponaria</i> Woodland Alliance <i>Sapindus saponaria</i> var. <i>drummondii</i> Woodland	Wingleaf Soapberry Woodland Alliance Western Soapberry Woodland	A.627 CEGL004535

Table 1-B. NVC Shrubland, Dwarf-shrubland, and Shrub Herbaceous Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
- <i>Acacia berlandieri</i> South Texas Plains Shrubland	- Guajillo South Texas Plains Shrubland	CEGL002181
<i>Acacia greggii</i> Shrubland Alliance	Catchlaw Acacia Shrubland Alliance	A.1036
<i>Acacia neovernicensa</i> Shrubland Alliance	Viscid Acacia Shrubland Alliance	A.1037
- <i>Acacia neovernicensa</i> / <i>Bouteloua hirsuta</i> - <i>Bouteloua gracilis</i> - <i>Bouteloua eriopoda</i> Shrub Herbaceous Vegetation	- Viscid Acacia / Hairy Grama - Blue Grama - Black Grama Shrub Herbaceous Vegetation	CEGL004244
- <i>Acacia neovernicensa</i> / <i>Muhlenbergia porteri</i> Shrubland	- Viscid Acacia / Bush Muhly Shrubland	CEGL001342
- <i>Acacia rigidula</i> Shrubland	- Chaparro-Prieto Shrubland	CEGL003874
<i>Acacia rigidula</i> – <i>Leucophyllum frutescens</i> – <i>Acacia berlandieri</i> Shrubland Alliance	Chaparro-Prieto – Cenizo – Guajillo Shrubland Alliance	A.1909
- <i>Acacia rigidula</i> - <i>Leucophyllum frutescens</i> - <i>Hechtia glomerata</i> Shrubland	- Chaparro-Prieto - Cenizo - Guapilla Shrubland	CEGL007760
<i>Allenrolfea occidentalis</i> Shrubland Alliance	Iodinebush Shrubland Alliance	A.866
- <i>Allenrolfea occidentalis</i> Shrubland	- Iodinebush Shrubland	CEGL000988
<i>Aloysia wrightii</i> Shrubland Alliance	Wright's Beebrush Shrubland Alliance	A.1035
<i>Arundinaria gigantea</i> Temporarily Flooded Shrubland Alliance	Giant Cane Temporarily Flooded Shrubland Alliance	A.795
- <i>Arundinaria gigantea</i> ssp. <i>gigantea</i> Shrubland	- Giant Cane Shrubland	CEGL003836
<i>Atriplex canescens</i> Shrubland Alliance	Fourwing Saltbush Shrubland Alliance	A.869
- <i>Atriplex canescens</i> / <i>Bouteloua gracilis</i> Shrubland	- Fourwing Saltbush / Blue Grama Shrubland	CEGL001283
- <i>Atriplex canescens</i> / <i>Sporobolus airoides</i> Shrubland	- Fourwing Saltbush / Alkali Sacaton Shrubland	CEGL001291
<i>Atriplex obovata</i> Dwarf-shrubland Alliance	New Mexico Saltbush Dwarf-shrubland Alliance	A.1108
- <i>Atriplex obovata</i> / <i>Tidestromia carnosa</i> Dwarf-shrubland	- New Mexico Saltbush / Fleshy Honeysweet Dwarf-shrubland	CEGL004575
<i>Baccharis salicifolia</i> Intermittently Flooded Shrubland Alliance	Mule's-fat Intermittently Flooded Shrubland Alliance	A.933
<i>Baccharis salicifolia</i> – <i>Baccharis neglecta</i> Seasonally Flooded Shrubland Alliance	Mule's-fat – Rooseveltweed Seasonally Flooded Shrubland Alliance	A.987
- <i>Baccharis salicifolia</i> / <i>Muhlenbergia rigens</i> Shrubland	- Mule's-fat / Deergrass Shrubland	CEGL004572
<i>Baccharis salicina</i> Temporarily Flooded Shrubland Alliance	Great Plains False Willow Shrubland Alliance	A.3567
- <i>Baccharis salicina</i> Shrubland	- Great Plains False Willow Shrubland	CEGL005007
<i>Bouteloua eriopoda</i> Xeromorphic Shrub Herbaceous Alliance	Black Grama Xeromorphic Shrub Herbaceous Alliance	A.1553
<i>Bouteloua hirsuta</i> – <i>Bouteloua gracilis</i> – <i>Bouteloua eriopoda</i> Shrub Herbaceous Alliance	Hairy Grama – Blue Grama – Black Grama Shrub Herbaceous Alliance	A.1548
<i>Brickellia laciniata</i> Intermittently Flooded Shrubland Alliance	Splitleaf Brickelbush Intermittently Flooded Shrubland Alliance	A.940
- <i>Brickellia laciniata</i> - <i>Hymenoclea monogyra</i> Shrubland	- Splitleaf Brickellbush - Single-whorl Cheesebush Shrubland	CEGL001953
- <i>Celtis laevigata</i> var. <i>reticulata</i> - <i>Juglans microcarpa</i> / <i>Leptochloa dubia</i> Shrubland	- Netleaf Hackberry - Little Walnut / Green Sprangletop Shrubland	CEGL002166
<i>Cephalanthus occidentalis</i> Semipermanently Flooded Shrubland Alliance	Common Buttonbush Semipermanently Flooded Shrubland Alliance	A.1011
- <i>Cephalanthus occidentalis</i> / <i>Carex</i> spp. - <i>Lemna</i> spp. Southern Shrubland	- Common Buttonbush / Sedge species - Duckweed species Southern Shrubland	CEGL002191

Table 1-B. NVC Shrubland, Dwarf-shrubland, and Shrub Herbaceous Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Cercocarpus montanus</i> Shrubland Alliance	Alderleaf Mountain Mahogany Shrubland	A.896
- <i>Cercocarpus montanus</i> / <i>Bouteloua curtipendula</i> Shrubland	- Alderleaf Mountain-mahogany / Sideoats Grama Shrubland	CEGL001086
- <i>Cercocarpus montanus</i> / <i>Muhlenbergia pauciflora</i> Shrubland	- Alderleaf Mountain-mahogany / New Mexico Muhly Shrubland	CEGL001089
<i>Chilopsis linearis</i> Intermittently Flooded Shrubland Alliance	Desert-willow Intermittently Flooded Shrubland Alliance	A.1044
- <i>Chilopsis linearis</i> / <i>Brickellia laciniata</i> Shrubland	- Desert-willow / Splitleaf Brickellbush Shrubland	CEGL004933
<i>Dalea formosa</i> – <i>Mimosa borealis</i> Dwarf-shrubland Alliance	Featherplume – Pink Mimosa Dwarf-shrubland Alliance	A.3568
- <i>Dalea formosa</i> - <i>Mimosa borealis</i> Dwarf-shrubland	- Featherplume - Pink Mimosa Dwarf-shrubland	CEGL005009
<i>Dasylirion leiophyllum</i> - (<i>Agave lechuguilla</i> , <i>Viguiera stenoloba</i>) Shrubland Alliance	Green Sotol - (Lechuguilla, Skeletonleaf Goldeneye) Shrubland Alliance	A.850
- <i>Dasylirion leiophyllum</i> - <i>Agave lechuguilla</i> / <i>Bouteloua hirsuta</i> - <i>Bouteloua gracilis</i> - <i>Bouteloua eriopoda</i> Shrubland	- Green Sotol - Lechuguilla / Hairy Grama - Blue Grama - Black Grama Shrubland	CEGL004245
- <i>Dasylirion leiophyllum</i> - <i>Viguiera stenoloba</i> - <i>Agave lechuguilla</i> / <i>Bouteloua ramosa</i> Shrubland	- Green Sotol - Skeletonleaf Goldeneye - Lechuguilla / Chino Grama Shrubland	CEGL004604
- <i>Ephedra torreyana</i> / <i>Bouteloua eriopoda</i> Shrub Herbaceous Vegetation	- Torrey's Joint-fir / Black Grama Shrub Herbaceous Vegetation	CEGL001731
<i>Fallugia paradoxa</i> Intermittently Flooded Shrubland Alliance	Apache Plume Intermittently Flooded Shrubland Alliance	A.934
- <i>Fallugia paradoxa</i> Shrubland	- Apache Plume Shrubland	CEGL003875
<i>Flourensia cernua</i> Shrubland Alliance	Tarbush Shrubland Alliance	A.861
- <i>Flourensia cernua</i> / <i>Bouteloua curtipendula</i> Shrubland	- Tarbush / Sideoats Grama Shrubland	CEGL001336
- <i>Flourensia cernua</i> / <i>Pleuraphis mutica</i> Shrubland	- Tarbush / Tobosa Grass Shrubland	CEGL001541
<i>Fouquieria splendens</i> Shrubland Alliance	Ocotillo Shrubland Alliance	A.863
- <i>Fouquieria splendens</i> / <i>Bouteloua curtipendula</i> Shrubland	- Ocotillo / Sideoats Grama Shrubland	CEGL001376
- <i>Fouquieria splendens</i> / <i>Bouteloua hirsuta</i> Shrubland	- Ocotillo / Hairy Grama Shrubland	CEGL001377
- <i>Fouquieria splendens</i> / <i>Parthenium incanum</i> Shrubland	- Ocotillo / Mariola Shrubland	CEGL001378
- <i>Fouquieria splendens</i> Shrubland	- Ocotillo Shrubland	CEGL004452
<i>Gutierrezia sarothrae</i> Dwarf-shrubland Alliance	Broom Snakeweed Dwarf-shrubland Alliance	A.2528
<i>Juglans microcarpa</i> Temporarily Flooded Shrubland Alliance	Little Walnut Temporarily Flooded Shrubland Alliance	A.945
- <i>Juglans microcarpa</i> - <i>Brickellia laciniata</i> / <i>Indigofera lindheimeriana</i> Edwards Plateau Shrubland	- Little Walnut - Splitleaf Brickellbush / Creek Indigo Edwards Plateau Shrubland	CEGL004932
- <i>Juglans microcarpa</i> / <i>Cladium mariscus</i> ssp. <i>jamaicense</i> Shrubland	- Little Walnut / Jamaica Swamp Sawgrass Shrubland	CEGL004593
- <i>Juglans microcarpa</i> / <i>Sorghastrum nutans</i> Shrubland	- Little Walnut / Yellow Indiangrass Shrubland	CEGL004594
- <i>Juglans microcarpa</i> Shrubland	- Little Walnut Shrubland	CEGL001103
<i>Kraschenimikovia lanata</i> Dwarf-shrubland Alliance	Winterfat Dwarf-shrubland Alliance	A.1104
- <i>Kraschenimikovia lanata</i> Dwarf-shrubland	- Winterfat Dwarf-shrubland	CEGL001320
<i>Larrea tridentata</i> Shrubland Alliance	Creosotebush Shrubland Alliance	A.851
- <i>Larrea tridentata</i> - <i>Agave lechuguilla</i> Shrubland	- Creosotebush - Lechuguilla Shrubland	CEGL004562
- <i>Larrea tridentata</i> / <i>Bouteloua eriopoda</i> Shrubland	- Creosotebush / Black Grama Shrubland	CEGL001265
- <i>Larrea tridentata</i> / <i>Bouteloua hirsuta</i> - <i>Bouteloua gracilis</i> - <i>Bouteloua eriopoda</i> Shrub Herbaceous Vegetation	- Creosotebush / Hairy Grama - Blue Grama - Black Grama Shrub Herbaceous Vegetation	CEGL004246
- <i>Larrea tridentata</i> / <i>Bouteloua ramosa</i> Shrubland	- Creosotebush / Chino Grama Shrubland	CEGL004563

Table 1-B. NVC Shrubland, Dwarf-shrubland, and Shrub Herbaceous Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
- <i>Larrea tridentata</i> / <i>Dasychloa pulchella</i> Shrubland	- Creosotebush / Low Woolly Grass Shrubland	CEGL001269
- <i>Larrea tridentata</i> - <i>Euphorbia antisiphilitica</i> Shrubland	- Creosotebush - Candelilla Shrubland	CEGL004564
- <i>Larrea tridentata</i> - <i>Flourensia cernua</i> Shrubland	- Creosotebush - Tarbush Shrubland	CEGL001270
- <i>Larrea tridentata</i> - <i>Hechtia texensis</i> Shrubland	- Creosotebush - Texas False Agave Shrubland	CEGL004565
- <i>Larrea tridentata</i> - <i>Jatropha dioica</i> var. <i>graminea</i> Shrubland	- Creosotebush - Leatherstem Shrubland	CEGL004566
- <i>Larrea tridentata</i> / <i>Muhlenbergia porteri</i> Shrubland	- Creosotebush / Bush Muhly Shrubland	CEGL001272
- <i>Larrea tridentata</i> - <i>Opuntia schottii</i> Shrubland	- Creosotebush - Dog Cholla Shrubland	CEGL004567
- <i>Larrea tridentata</i> - <i>Parthenium incanum</i> Shrubland	- Creosotebush - Mariola Shrubland	CEGL001274
- <i>Larrea tridentata</i> - <i>Prosopis glandulosa</i> Shrubland	- Creosotebush - Honey Mesquite Shrubland	CEGL001275
- <i>Larrea tridentata</i> / <i>Scleropogon brevifolius</i> Shrubland	- Creosotebush / Burrograss Shrubland	CEGL004568
- <i>Larrea tridentata</i> / Sparse Understory Shrubland	- Creosotebush / Sparse Understory Shrubland	CEGL001276
- <i>Larrea tridentata</i> / <i>Sporobolus airoides</i> Shrubland	- Creosotebush / Alkali Sacaton Shrubland	CEGL001277
- <i>Larrea tridentata</i> / <i>Tiquilia canescens</i> Shrubland	- Creosotebush / Gray Tiquilia Shrubland	CEGL004569
- <i>Larrea tridentata</i> - <i>Tiquilia greggii</i> Shrubland	- Creosotebush - Plume Tiquilia Shrubland	CEGL004570
- <i>Larrea tridentata</i> / <i>Tiquilia hispidissima</i> Shrubland	- Creosotebush / Rough Tiquilia Shrubland	CEGL001267
- <i>Leucophyllum frutescens</i> Shrubland	- Cenizo Shrubland	CEGL002168
- <i>Parthenium incanum</i> / <i>Bouteloua eriopoda</i> Shrub Herbaceous Vegetation	- Mariola / Black Grama Shrub Herbaceous Vegetation	CEGL001734
<i>Pleuraphis mutica</i> Shrub Herbaceous Alliance	Tobosa Grass Shrub Herbaceous Alliance	A.1551
<i>Poliomintha incana</i> Shrubland Alliance	Hoary Rosemarymint Shrubland Alliance	A.862
<i>Prosopis glandulosa</i> Shrubland Alliance	Honey Mesquite Shrubland Alliance	A.1031
- <i>Prosopis glandulosa</i> / <i>Atriplex canescens</i> Shrubland	- Honey Mesquite / Fourwing Saltbush Shrubland	CEGL001382
- <i>Prosopis glandulosa</i> - <i>Atriplex</i> spp. Shrubland	- Honey Mesquite - Saltbush species Shrubland	CEGL002193
- <i>Prosopis glandulosa</i> / <i>Bouteloua curtipendula</i> Shrubland	- Honey Mesquite / Sideoats Grama Shrubland	CEGL002194
- <i>Prosopis glandulosa</i> / <i>Bouteloua gracilis</i> Shrubland	- Honey Mesquite / Blue Grama Shrubland	CEGL001383
- <i>Prosopis glandulosa</i> / <i>Cynodon dactylon</i> Shrubland	- Honey Mesquite / Bermudagrass Shrubland	CEGL00xxxx
- <i>Prosopis glandulosa</i> / <i>Muhlenbergia porteri</i> Shrubland	- Honey Mesquite / Bush Muhly Shrubland	CEGL001511
- <i>Prosopis glandulosa</i> / <i>Pleuraphis mutica</i> Shrub Herbaceous Vegetation	- Honey Mesquite / Tobosa Grass Shrub Herbaceous Vegetation	CEGL001641
- <i>Prosopis glandulosa</i> / <i>Sporobolus airoides</i> Shrubland	- Honey Mesquite / Alkali Sacaton Shrubland	CEGL001385
- <i>Prosopis glandulosa</i> / <i>Sporobolus flexuosus</i> Shrubland	- Honey Mesquite / Mesa Dropseed Shrubland	CEGL001386
- <i>Prosopis glandulosa</i> - <i>Ziziphus obtusifolia</i> Shrubland	- Honey Mesquite - Lotebush Shrubland	CEGL004939
- <i>Prosopis glandulosa</i> var. <i>torreyana</i> Shrubland	- Western Honey Mesquite Shrubland	CEGL001381
<i>Prosopis pubescens</i> Shrubland Alliance	American Screwbean Shrubland Alliance	A.1042
<i>Quercus gambelii</i> Shrubland Alliance	Gambel Oak Shrubland Alliance	A.920
<i>Quercus intricata</i> Shrubland Alliance	Dwarf Oak Shrubland Alliance	A.781
- <i>Quercus intricata</i> - <i>Dasyllirion leiophyllum</i> Shrubland	- Dwarf Oak - Green Sotol Shrubland	CEGL004530
<i>Quercus mohriana</i> Shrubland Alliance	Mohr Oak Shrubland Alliance	A.782
- <i>Quercus mohriana</i> - <i>Juniperus pinchotii</i> / <i>Bouteloua curtipendula</i> Shrubland	- Mohr Oak - Pinchot's Juniper / Sideoats Grama Shrubland	CEGL002173

Table 1-B. NVC Shrubland, Dwarf-shrubland, and Shrub Herbaceous Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Quercus pungens</i> Shrubland Alliance - <i>Quercus pungens</i> - <i>Cercocarpus montanus</i> Shrubland	Sandpaper Oak Shrubland Alliance - Sandpaper Oak - Alderleaf Mountain-mahogany Shrubland	A.783 CEGL003832
<i>Quercus sinuata</i> var. <i>breviloba</i> Shrubland Alliance - <i>Quercus sinuata</i> var. <i>breviloba</i> Shrubland	White Shin Oak Shrubland Alliance - White Shin Oak Shrubland	A.907 CEGL004453
<i>Quercus turbinella</i> Shrubland Alliance - <i>Quercus turbinella</i> / <i>Bouteloua eriopoda</i> Shrubland - <i>Quercus turbinella</i> - <i>Cercocarpus montanus</i> Shrubland	Turbinella Live Oak Shrubland Alliance - Turbinella Live Oak / Black Grama Shrubland - Turbinella Live Oak - Alderleaf Mountain-mahogany Shrubland	A.793 CEGL000978 CEGL000979
<i>Rhus trilobata</i> Shrubland Alliance - <i>Rhus trilobata</i> / <i>Bouteloua curtipendula</i> - <i>Schizachyrium scoparium</i> Shrubland	Skunkbush Sumac Shrubland Alliance - Skunkbush Sumac / Sideoats Grama - Little Bluestem Shrubland	A.3569 CEGL005026
<i>Rhus virens</i> var. <i>choriophylla</i> Shrubland Alliance	Evergreen Sumac Shrubland Alliance	A.922
<i>Salix (exigua, interior)</i> Temporarily Flooded Shrubland Alliance - <i>Salix exigua</i> Temporarily Flooded Shrubland - <i>Salix interior</i> / <i>Phragmites australis</i> Temporarily Flooded Shrubland	(Coyote Willow, Sandbar Willow) Temporarily Flooded Shrubland Alliance - Coyote Willow Temporarily Flooded Shrubland - Sandbar Willow / Common Reed Temporarily Flooded Shrubland	A.947 CEGL001197 CEGL007753
<i>Salix nigra</i> Temporarily Flooded Shrubland Alliance - <i>Salix nigra</i> Temporarily Flooded Shrubland	Black Willow Temporarily Flooded Shrubland Alliance - Black Willow Temporarily Flooded Shrubland	A.948 CEGL003901
<i>Tamarix</i> spp. Semi-natural Temporarily Flooded Shrubland Alliance	Salt-cedar species Semi-natural Temporarily Flooded Shrubland Alliance	A.842
<i>Tiquilia hispidissima</i> Dwarf-shrubland Alliance - <i>Tiquilia hispidissima</i> / <i>Sporobolus airoides</i> Dwarf-shrubland	Rough Tiquilia Dwarf-shrubland Alliance - Rough Tiquilia / Alkali Sacaton Dwarf-shrubland	A.1101 CEGL004574
- <i>Viguiera stenoloba</i> - <i>Bernardia obovata</i> / <i>Chamaesyce</i> sp. Shrubland	Skeletonleaf Goldeneye - Desert Myrtle-croton / Sandmat species Shrubland	CEGL004603
- <i>Yucca elata</i> / <i>Bouteloua eriopoda</i> Shrub Herbaceous Vegetation	- Soap-tree Yucca / Black Grama Shrub Herbaceous Vegetation	CEGL001735
- <i>Yucca faxoniana</i> / <i>Bouteloua hirsuta</i> - <i>Bouteloua gracilis</i> - <i>Bouteloua eriopoda</i> Shrub Herbaceous Vegetation	- Faxon's Yucca / Hairy Grama - Blue Grama - Black Grama Shrub Herbaceous Vegetation	CEGL004248

Table 1-C. NVC Herbaceous and Sparse Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Adiantum capillus-veneris</i> Saturated Herbaceous Alliance	Southern Maidenhair Saturated Herbaceous Alliance	A.1683
<i>Aristida purpurea</i> Herbaceous Alliance	Purple Threeawn Herbaceous Alliance	A.2570
<i>Bothriochloa barbinodis</i> Herbaceous Alliance	Cane Beardgrass Herbaceous Alliance	A.1209
- <i>Bothriochloa barbinodis</i> Herbaceous Vegetation	- Cane Beardgrass Herbaceous Vegetation	CEGL005323
<i>Bouteloua breviseta</i> Sparsely Vegetated Alliance	Gypsum Grama Sparsely Vegetated Alliance	A.1870
- <i>Bouteloua breviseta</i> Sparse Vegetation	- Gypsum Grama Sparse Vegetation	CEGL004609
<i>Bouteloua curtipendula</i> Herbaceous Alliance	Sideoats Grama Herbaceous Alliance	A.1244
- <i>Bouteloua curtipendula</i> - <i>Bouteloua (eriopoda, gracilis)</i> Herbaceous Vegetation	- Sideoats Grama – (Black Grama, Blue Grama) Herbaceous Vegetation	CEGL002250
- <i>Bouteloua curtipendula</i> - <i>Hilaria belangeri</i> - <i>Bouteloua eriopoda</i> Herbaceous Vegetation	- Sideoats Grama – Curly-mesquite – Black Grama Herbaceous Vegetation	CEGL001591
<i>Bouteloua eriopoda</i> Herbaceous Alliance	Black Grama Herbaceous Alliance	A.1284
- <i>Bouteloua eriopoda</i> - <i>Bouteloua gracilis</i> Herbaceous Vegetation	- Black Grama – Blue Grama Herbaceous Vegetation	CEGL001748
- <i>Bouteloua eriopoda</i> - <i>Bouteloua hirsuta</i> Herbaceous Vegetation	- Black Grama – Hairy Grama Herbaceous Vegetation	CEGL001749
<i>Bouteloua gracilis</i> Herbaceous Alliance	Blue Grama Herbaceous Alliance	A.1282
- <i>Bouteloua gracilis</i> - <i>Bouteloua curtipendula</i> Herbaceous Vegetation	- Blue Grama – Sideoats Grama Herbaceous Vegetation	CEGL001754
- <i>Bouteloua gracilis</i> - <i>Bouteloua hirsuta</i> Herbaceous Vegetation	- Blue Grama – Hairy Grama Herbaceous Vegetation	CEGL001755
<i>Bouteloua hirsuta</i> Herbaceous Alliance	Hairy Grama Herbaceous Alliance	A.1285
- <i>Bouteloua hirsuta</i> - <i>Bouteloua curtipendula</i> Herbaceous Vegetation	- Hairy Grama – Sideoats Grama Herbaceous Vegetation	CEGL001764
<i>Bouteloua ramosa</i> Herbaceous Alliance	Chino Grama Herbaceous Alliance	A.1275
- <i>Bouteloua ramosa</i> Herbaceous Vegetation	- Chino Grama Herbaceous Vegetation	CEGL004522
<i>Cenchrus (Pennisetum) ciliaris(e)</i> Herbaceous Alliance	Buffelgrass Herbaceous Alliance	A.1211
- <i>Cenchrus ciliaris</i> Semi-natural Herbaceous Vegetation	- Buffelgrass Semi-natural Herbaceous Vegetation	CEGL00xxxx
<i>Cynodon dactylon</i> Herbaceous Alliance	Bermudagrass Herbaceous Alliance	A.1279
<i>Distichlis spicata</i> – (<i>Hordeum jubatum</i>) Temporarily Flooded Herbaceous Alliance	Inland Saltgrass – (Foxtail Barley) Temporarily Flooded Herbaceous Alliance	A.1341
- <i>Distichlis spicata</i> - (<i>Hordeum jubatum</i> , <i>Poa arida</i> , <i>Sporobolus airoides</i>) Herbaceous Vegetation	- Inland Saltgrass – (Foxtail Barley, Prairie Bluegrass, Alkali Sacaton) Herbaceous Vegetation	CEGL002042
<i>Eragrostis lehmanniana</i> Semi-natural Herbaceous Alliance	Lehmann's Lovegrass Semi-natural Herbaceous Alliance	A.2687
<i>Festuca arizonica</i> Herbaceous Alliance	Arizona Fescue Herbaceous Alliance	A.1245
- <i>Festuca arizonica</i> - <i>Blepharoneuron tricholepis</i> Herbaceous Vegetation	- Arizona Fescue - Pine-dropseed Herbaceous Vegetation	CEGL004508
- <i>Festuca arizonica</i> - <i>Muhlenbergia montana</i> Herbaceous Vegetation	- Arizona Fescue - Mountain Muhly Herbaceous Vegetation	CEGL001606
<i>Heliotropium racemosum</i> Sparsely Vegetated Alliance	Dune Heliotrope Sparsely Vegetated Alliance	A.1854
<i>Justicia americana</i> Temporarily Flooded Herbaceous Alliance	American Water-willow Temporarily Flooded Herbaceous Alliance	A.1657
- <i>Justicia americana</i> - <i>Bacopa monnieri</i> Edwards Plateau Herbaceous Vegetation	- American Water-willow - Coastal Water-hyssop Edwards Plateau Herbaceous Vegetation	CEGL004926
<i>Lemna</i> spp. Permanently Flooded Herbaceous Alliance	Duckweed Species Permanently Flooded Herbaceous Alliance	A.1747

Table 1-C. NVC Herbaceous and Sparse Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Lesquerella (gordonii, ovalifolia)</i> Herbaceous Alliance - <i>Lesquerella (gordonii, ovalifolia)</i> - <i>Schizachyrium scoparium</i> Herbaceous Vegetation	Gordon's Bladderpod, Oval-leaf Bladderpod) Herbaceous Alliance - (Gordon's Bladderpod, Oval-leaf Bladderpod) - Little Bluestem Herbaceous Vegetation	A.1619 CEGL004917
<i>Ludwigia peploides</i> Semipermanently Flooded Herbaceous Alliance - <i>Ludwigia peploides</i> Herbaceous Vegetation - <i>Marrubium vulgare</i> Semi-natural Herbaceous Vegetation	Floating Water-primrose Semipermanently Flooded Herbaceous Alliance - Floating Water-primrose Herbaceous Vegetation - Horehound Semi-natural Herbaceous Vegetation	A.1928 CEGL007835 CEGL00xxxx
<i>Muhlenbergia emersleyi</i> Herbaceous Alliance - <i>Muhlenbergia emersleyi</i> - <i>Bouteloua curtipendula</i> Herbaceous Vegetation	Bull Muhly Herbaceous Alliance - Bull Muhly – Sideoats Grama Herbaceous Vegetation	A.1259 CEGL001644
Open Cliff Sparsely Vegetated Alliance	Open Cliff Sparsely Vegetated Alliance	A.1836
<i>Panicum bulbosum</i> Temporarily Flooded Herbaceous Alliance - <i>Panicum bulbosum</i> - <i>Lycurus phleoides</i> Herbaceous Vegetation	Bulb Panicgrass Temporarily Flooded Herbaceous Alliance - Bulb Panicgrass - Common Wolf's-tail Herbaceous Vegetation	A.1356 CEGL001654
<i>Panicum obtusum</i> Herbaceous Alliance - <i>Panicum obtusum</i> - <i>Panicum hallii</i> Herbaceous Vegetation - <i>Panicum obtusum</i> Herbaceous Vegetation	Vine-mesquite Herbaceous Alliance - Vine-mesquite - Hall's Panicgrass Herbaceous Vegetation - Vine-mesquite Herbaceous Vegetation	A.1238 CEGL001575 CEGL002708
<i>Panicum virgatum</i> Temporarily Flooded Herbaceous Alliance - <i>Panicum virgatum</i> - <i>Andropogon glomeratus</i> – (<i>Panicum hemitomon</i>) Herbaceous Vegetation - <i>Panicum virgatum</i> – <i>Pascopyrum smithii</i> Southern Herbaceous Vegetation - <i>Panicum virgatum</i> – <i>Tripsacum dactyloides</i> - <i>Cladium mariscus</i> ssp. <i>jamaicense</i> Herbaceous Vegetation	Switchgrass Temporarily Flooded Herbaceous Alliance - Switchgrass - Bushy Bluestem – (Maidencane) Herbaceous Vegetation - Switchgrass – Western Wheatgrass Southern Herbaceous Vegetation - Switchgrass – Eastern Gammagrass - Jamaica Swamp Sawgrass Herbaceous Vegetation	A.1343 CEGL004928 CEGL005019 CEGL007937
<i>Pascopyrum smithii</i> Herbaceous Alliance - <i>Pascopyrum smithii</i> - <i>Bouteloua gracilis</i> Herbaceous Vegetation	Western Wheatgrass Herbaceous Alliance - Western Wheatgrass - Blue Grama Herbaceous Vegetation	A.1232 CEGL001578
<i>Pericome caudata</i> Sparsely Vegetated Alliance - <i>Pericome caudata</i> Sparse Vegetation	Mountain Tail-leaf Sparsely Vegetated Alliance - Mountain Tail-leaf Sparse Vegetation	A.1848 CEGL004579
<i>Phragmites australis</i> Semipermanently Flooded Herbaceous Alliance <i>Phragmites australis</i> Temporarily Flooded Herbaceous Alliance - <i>Phragmites australis</i> Western North America Temperate Semi-natural Herbaceous Vegetation - <i>Phragmites australis</i> Riverbank Herbaceous Vegetation	Common Reed Semipermanently Flooded Herbaceous Alliance Common Reed Temporarily Flooded Herbaceous Alliance - Common Reed Western North America Temperate Semi-natural Herbaceous Vegetation - Common Reed Riverbank Herbaceous Vegetation	A.1431 A.1345 CEGL001475 CEGL004115
<i>Pleuraphis mutica</i> Herbaceous Alliance <i>Pleuraphis mutica</i> Intermittently Flooded Herbaceous Alliance - <i>Pleuraphis mutica</i> - <i>Scleropogon brevifolius</i> Herbaceous Vegetation - <i>Pleuraphis mutica</i> - <i>Panicum obtusum</i> Herbaceous Vegetation	Tobosa Grass Herbaceous Alliance Tobosa Grass Intermittently Flooded Herbaceous Alliance - Tobosa Grass – Burrograss Herbaceous Vegetation - Tobosa Grass – Vine-mesquite Herbaceous Vegetation	A.1249 A.1330 CEGL001640 CEGL001639
<i>Polygonum</i> spp. (section <i>Persicaria</i>) Seasonally Flooded Herbaceous Alliance - <i>Polygonum pensylvanicum</i> - <i>Polygonum lapathifolium</i> Herbaceous Vegetation	Smartweed species Seasonally Flooded Herbaceous Alliance - Pennsylvania Smartweed - Pale Smartweed Herbaceous Vegetation	A.1881 CEGL002277

Table 1-C. NVC Herbaceous and Sparse Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
- <i>Sagittaria cuneata</i> - <i>Sagittaria longiloba</i> Herbaceous Vegetation	- Arumleaf Arrowhead - Longbarb Arrowhead Herbaceous Vegetation	CEGL004525
<i>Sagittaria latifolia</i> Semipermanently Flooded Herbaceous Alliance	Broadleaf Arrowhead Semipermanently Flooded Herbaceous Alliance	A.1675
- <i>Salsola kali</i> Semi-natural Herbaceous Vegetation	- Russian-thistle Herbaceous Vegetation	CEGL00xxxx
<i>Schizachyrium cirratum</i> Herbaceous Alliance	Texas Bluestem Herbaceous Alliance	A.1221
- <i>Schizachyrium cirratum</i> Herbaceous Vegetation	- Texas Bluestem Herbaceous Vegetation	CEGL004055
<i>Schizachyrium scoparium</i> - <i>Bouteloua curtipendula</i> Herbaceous Alliance	Little Bluestem – Sideoats Grama Herbaceous Alliance	A.1225
- <i>Schizachyrium scoparium</i> - <i>Bouteloua curtipendula</i> Western Great Plains Herbaceous Vegetation	- Little Bluestem – Sideoats Grama Western Great Plains Herbaceous Vegetation	CEGL001594
- <i>Schizachyrium scoparium</i> - <i>Lechea tenuifolia</i> - <i>Acalypha radians</i> Herbaceous Vegetation	- Little Bluestem – Narrowleaf Pinweed – Round Copperleaf Herbaceous Vegetation	CEGL004913
<i>Schoenoplectus americanus</i> Semipermanently Flooded Herbaceous Alliance	Chairmaker’s Bulrush Semipermanently Flooded Herbaceous Alliance	A.1432
<i>Schoenoplectus pungens</i> Semipermanently Flooded Herbaceous Alliance	Common Threesquare Semipermanently Flooded Herbaceous Alliance	A.1433
- <i>Schoenoplectus pungens</i> - <i>Distichlis spicata</i> Herbaceous Vegetation	- Common Threesquare - Inland Saltgrass Herbaceous Vegetation	CEGL005988
<i>Sedum nuttallianum</i> Sparsely Vegetated Alliance	Nuttall’s Stonecrop Sparsely Vegetated Alliance	A.1846
- <i>Sedum nuttallianum</i> - <i>Selaginella peruviana</i> Granitic Outcrop Sparse Vegetation	- Nuttall's Stonecrop - Peruvian Spike-moss Granitic Outcrop Sparse Vegetation	CEGL004396
<i>Sesuvium verrucosum</i> Temporarily Flooded Sparsely Vegetated Alliance	Winged Sea-purslaneTemporarily Flooded Sparsely Vegetated Alliance	A.1865
<i>Sorghum halepense</i> Semi-natural Herbaceous Alliance	Johnson Grass Semi-natural Herbaceous Alliance	A.2020
- <i>Sorghum halepense</i> - (<i>Amaranthus palmeri</i>) Semi-natural Herbaceous Vegetation	- Johnson Grass - (Palmer's Amaranth) Semi-natural Herbaceous Vegetation	CEGL005324
<i>Sporobolus airoides</i> Herbaceous Alliance	Alkali Sacaton Herbaceous Alliance	A.1267
- <i>Sporobolus airoides</i> - <i>Distichlis spicata</i> Herbaceous Vegetation	- Alkali Sacaton - Inland Saltgrass Herbaceous Vegetation	CEGL001687
<i>Sporobolus airoides</i> Intermittently Flooded Herbaceous Alliance	Alkali Sacaton Intermittently Flooded Herbaceous Alliance	A.1331
- <i>Sporobolus airoides</i> Southern Plains Herbaceous Vegetation	- Alkali Sacaton Southern Plains Herbaceous Vegetation	CEGL001685
<i>Sporobolus cryptandrus</i> Herbaceous Alliance	Sand Dropseed Herbaceous Alliance	A.1252
- <i>Sporobolus cryptandrus</i> - <i>Schizachyrium scoparium</i> - <i>Bouteloua curtipendula</i> Herbaceous Vegetation	- Sand Dropseed - Little Bluestem - Sideoats Grama Herbaceous Vegetation	CEGL005031
<i>Sporobolus flexuosus</i> Herbaceous Alliance	Mesa Dropseed Herbaceous Alliance	A.1268
<i>Sporobolus wrightii</i> Saturated Herbaceous Alliance	Big Alkali Sacaton Saturated Herbaceous Vegetation	A.1435
- <i>Sporobolus wrightii</i> Herbaceous Vegetation	- Big Alkali Sacaton Herbaceous Vegetation	CEGL002232
- <i>Sporobolus wrightii</i> - <i>Panicum obtusum</i> Herbaceous Vegetation	- Big Alkali Sacaton - Vine-mesquite Herbaceous Vegetation	CEGL001486
<i>Tidestromia carnosa</i> Sparsely Vegetated Alliance	Fleshy Honeysweet Sparsely Vegetated Alliance	A.1873
- <i>Tidestromia carnosa</i> - <i>Kallstroemia grandiflora</i> Sparse Vegetation	- Fleshy Honeysweet - Orange Caltrop Sparse Vegetation	CEGL004580

Table 1-C. NVC Herbaceous and Sparse Vegetation Alliances and Plant Associations Identified as Potentially Occurring within the BIBE/RIGR Vegetation Inventory Project Area.

NVC Alliance and/or Association	Common Name	Element Code
<i>Typha (angustifolia, latifolia)</i> – (<i>Schoenoplectus</i> spp.) Semipermanently Flooded Herbaceous Alliance	Narrowleaf Cattail, Broadleaf Cattail) – (Clubrush species) Semipermanently Flooded Herbaceous Alliance	A.1436
- <i>Typha (angustifolia, domingensis, latifolia)</i> - <i>Schoenoplectus americanus</i> Herbaceous Vegetation	- (Narrowleaf Cattail, Southern Cattail, Broadleaf Cattail) - Chairmaker's Bulrush Herbaceous Vegetation	CEGL002032
- <i>Typha latifolia</i> Southern Herbaceous Vegetation	- Broadleaf Cattail Southern Herbaceous Vegetation	CEGL004150
<i>Typha domingensis</i> Seasonally Flooded Temperate Herbaceous Alliance	Southern Cattail Seasonally Flooded Temperate Herbaceous Alliance	A.1392
- <i>Typha domingensis</i> Tidal Herbaceous Vegetation	- Southern Cattail Tidal Herbaceous Vegetation	CEGL008456

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Appendix 1: Plant Species List for BIBE/RIGR

Comprehensive list of plant species observed at BIBE and RIGR, organized alphabetically by family.

(Sources: (1) Fenstermacher, J., A. M. Powell, J. Sirotnak, and M. Terry. 2008. Annotated Vascular Flora of the Dead Horse Mountains, Big Bend National Park, Texas, with Notes on Local Vegetation Communities and Regional Floristic Relationship. Journal of the Botanical Research Institute of Texas. (2) NPSpecies 2010
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Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Acanthaceae	Acanthaceae
Anisacanthus linearis	Dwarf Anisacanth
Anisacanthus puberulus	Dwarf Anisacanth
Carlowrightia arizonica	Arizona Carlowright
Carlowrightia linearifolia	Heath Carlowright
Carlowrightia parviflora	Smallflower Wrightwort
Carlowrightia serpyllifolia	Trans-Pecos Wrightwort
Carlowrightia texana	NA
Carlowrightia torreyana	NA
Dyschoriste decumbens	Spreading Snakeherb, Dyschoriste
Dyschoriste linearis	Narrowleaf Dyschoriste
Justicia americana	NA
Justicia warnockii	Warnock Waterwillow
Justicia wrightii	Wright's Waterwillow
Ruellia parryi	Parry Ruellia, Parry's Wild Petunia
Siphonoglossa pilosella	Hairy Tube-tongue
Stenandrium barbatum	Shaggy Stenandrium
Tetramerium nervosum	NA
Aceraceae	Aceraceae
Acer grandidentatum	Bigtooth Maple, Canyon Maple
Agavaceae	Agavaceae
Agave glomeruliflora	Chisos Agave
Agave havardiana	Havard Agave
Agave lechuguilla	Lechuguilla
Yucca elata	Palmella, Soaptree Yucca
Yucca faxoniana	Spanish Bayonet, Giant Dagger
Yucca thompsoniana	Beaked Yucca
Yucca torreyi	Torrey Yucca
Dasyllirion heteracanthum	Sotol
Dasyllirion leiophyllum	Smooth Sotol
Nolina erumpens	Foothill Nolina, Sacahuiste
Aizoaceae	Aizoaceae
Sesuvium portulacastrum	NA
Trianthema portulacastrum	Horse Purslane
Alismataceae	Alismataceae
Sagittaria graminea	Grass Leaf Arrowhead
Sagittaria longiloba	Longlobe Arrowhead
Amaranthaceae	Amaranthaceae
Alternanthera caracasana	Washerwoman
Alternanthera polygonoides	NA
Alternanthera sessilis	NA
Amaranthus albus	Prostrate Pigweed, Tumble Pigweed, White Pigweed
Amaranthus arenicola	Sandhill Amaranth, Torrey Amaranth
Amaranthus blitoides	Prostrate Pigweed
Amaranthus fimbriatus	Fringed Amaranth, Fringed Pigweed

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Amaranthus hybridus	Green Amaranth
Amaranthus palmeri	Palmer's Amaranth
Amaranthus polygonoides	NA
Amaranthus powellii	Powell Amaranth, Powell Pigweed
Amaranthus retroflexus	Careless Weed, Redroot Amaranth, Rough Pigweed
Amaranthus scleropoides	Bonebract Amaranth
Amaranthus spinosus	Spiny Amaranth
Amaranthus torreyi	Torrey Amaranth
Amaranthus wrightii	NA
Froelichia arizonica	Arizona Snakecotton
Froelichia drummondii	NA
Froelichia floridana	NA
Froelichia gracilis	Slender Snakecotton
Froelichia interrupta	Texas Snakecotton
Gomphrena decumbens	NA
Gomphrena haageana	NA
Gomphrena nitida	Pearly Globe Amaranth, Ball Clover
Guilleminea densa	Small Matweed
Guilleminea densa var. aggregata	Small Matweed
Guilleminea densa var. densa	Small Matweed
Iresine heterophylla	Standley's Bloodleaf
Iresine leptoclada	Texas Shrub
Tidestromia carnosa	Wolly Tidestromia, Honeymat
Tidestromia lanuginosa	Wolly Tidestromia, Honeymat
Tidestromia suffruticosa	Shrubby Honeysweet
Amaryllidaceae	Amaryllidaceae
Cooperia drummondii	Drummond's Rain Lily
Zephyranthes longifolia	Western Zephyr Lily, Copper Zephyrlily
Anacardiaceae	Anacardiaceae
Rhus aromatica	Fragrant Sumac
Rhus lanceolata	Prairie sumac
Rhus microphylla	Littleleaf Sumac
Rhus trilobata var. pilosissima	Fragrant Sumac, Skunkbush sumac
Rhus virens	Evergreen or Tobacco Sumac
Rhus virens var. choriophylla	Evergreen or tobacco sumac
Rhus virens var. virens	Evergreen Sumac
Toxicodendron radicans	Poison Ivy
Toxicodendron radicans ssp. eximium	Poison Ivy
Apiaceae	Apiaceae
Aletes acaulis	Stemless Aletes, Seamless Indian Parsley
Chaerophyllum tainturieri	Chervil
Ciclospermum leptophyllum	Marsh Parsley
Hydrocotyle umbellata	Manyflower Marsh Pennywort, Umbrella Pennyroyal
Hydrocotyle verticillata	Marsh Pennywort
Seseli hallii	Moon Carrot
Torilis arvensis	Hedge Parsley

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Apocynaceae	Apocynaceae
<i>Amsonia longiflora</i>	Tubular Bluestar
<i>Amsonia longiflora</i> var. <i>longiflora</i>	Tubular Bluestar
<i>Amsonia palmeri</i>	NA
<i>Apocynum androsaemifolium</i>	Bitterroot, Flytrap Dogbane, Spreading Dogbane
<i>Apocynum cannabinum</i>	Prarie dogbane, Hemp dogbane
<i>Apocynum medium</i> var. <i>floribundum</i>	NA
<i>Haplophyton crooksii</i>	Cockroach Plant
<i>Macrosiphonia hypoleuca</i>	Davis Mountain Rocktrumpet
<i>Macrosiphonia hypoleuca</i>	NA
<i>Macrosiphonia lanuginosa</i>	Plateau Rock Trumpet
<i>Macrosiphonia lanuginosa</i> var. <i>macrocephala</i>	Rock Trumpet
<i>Nerium oleander</i>	Common oleander, laurel rose
Arecaceae	Arecaceae
<i>Phoenix dactylifera</i>	Date Palm
Aristolochiaceae	Aristolochiaceae
<i>Aristolochia coryi</i>	Cory's Dutchman's Pipe
<i>Aristolochia watsonii</i>	NA
<i>Aristolochia wrightii</i>	Wright's Dutchman's Pipe
Asclepiadaceae	Asclepiadaceae
<i>Asclepias asperula</i> ssp. <i>asperula</i>	Spider Antelope Horns
<i>Asclepias brachystephana</i>	Bract Milkweed, Shortcrown Milkweed
<i>Asclepias glaucescens</i>	Nodding Milkweed
<i>Asclepias incarnata</i>	NA
<i>Asclepias nummularia</i>	Tufted Milkweed
<i>Asclepias oenotheroides</i>	Zizotes Milkweed
<i>Asclepias perennis</i>	NA
<i>Asclepias sperryi</i>	Sperry's Milkweed
<i>Asclepias subverticillata</i>	Horsetail Milkweed, Whorled Milkweed, Poison Milkweed
<i>Asclepias texana</i>	Aquatic Milkweed
<i>Cynanchum barbigerum</i>	Bearded Swallowwort
<i>Cynanchum pringlei</i>	Bearded Swallow Wort
<i>Cynanchum racemosum</i> var. <i>unifarium</i>	Talayote
<i>Funastrum crispum</i>	Wavyleaf Twine-vine
<i>Funastrum cynanchoides</i> var. <i>cynanchoides</i>	Fringed Twinevine
<i>Funastrum cynanchoides</i> ssp. <i>heterophyllum</i>	Arroyo Twine-vine
<i>Funastrum torreyi</i>	Soft Twine-vine
<i>Matelea parvifolia</i>	Littleleaf Matelea, Smallleaf Anglepod, Spearleaf
<i>Matelea producta</i>	Texas Milkvine
<i>Matelea reticulata</i>	Netted Milkvine
<i>Matelea sagittifolia</i>	Arrowleaf Matelea, Arrowleaf Milkvine
Aspleniaceae	Aspleniaceae
<i>Asplenium resiliens</i>	Little Ebony Spleenwort, Blackstem Spleenwort
<i>Asplenium septentrionale</i>	Forked Spleenwort
Asteraceae	Asteraceae
<i>Acourtia nana</i>	Desert Holly

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
<i>Acourtia runcinata</i>	Peonia
<i>Acourtia wrightii</i>	Brownfoot, Wright's Desertpeony
<i>Ageratina herbacea</i>	Fragrant Snakeroot, Herbaceous Joe-Pie-Weed
<i>Ageratina rothrockii</i>	Rothrock's Snakeroot
<i>Ageratina wrightii</i>	Wright's Snakeroot
<i>Amblyolepis setigera</i>	Huisache Daisy
<i>Ambrosia acanthicarpa</i>	NA
<i>Ambrosia artemisiifolia</i>	NA
<i>Ambrosia confertiflora</i>	Ragweed, Wealkeaf Burr Ragweed
<i>Ambrosia psilostachya</i>	Cuman Ragweed, Perennial Ragweed, Western Ragweed
<i>Amphiachyris dracunculoides</i>	Common Broomweed, Prairie Broomweed
<i>Aphanostephus ramosissimus</i>	Plains Dozedaisy
<i>Aphanostephus ramosissimus</i> var. <i>humilis</i>	Plains Dozedaisy
<i>Artemisia carruthii</i>	Carruth's Sagewort
<i>Artemisia caudata</i>	NA
<i>Artemisia dracunculus</i>	False Tarragon, Green Sagewort, Silky Wormwood
<i>Artemisia ludoviciana</i>	Louisiana Sagewort
<i>Artemisia ludoviciana</i> ssp. <i>albula</i>	Louisiana Sagewort
<i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>	Cudweed Sagewort, Foothill Sagewort, Louisiana Sagewort
<i>Aster hesperius</i>	NA
<i>Baccharis havardii</i>	Havard's Falsewillow
<i>Baccharis pteronioides</i>	Yerba de Pasmó
<i>Baccharis salicifolia</i>	Seepwillow
<i>Baccharis salicina</i>	Willow Baccharis
<i>Baccharis wrightii</i>	Wright Baccharis
<i>Bahia absinthifolia</i>	Hairyseed Bahia
<i>Bahia absinthifolia</i> var. <i>dealbata</i>	Dealbata's Bahia
<i>Bahia bigelovii</i>	Bigelow's Bahia
<i>Bahia biternata</i>	NA
<i>Bahia dissecta</i>	Ragleaf Bahia
<i>Bahia pedata</i>	Blunt Scale Bahia
<i>Baileya multiradiata</i>	Desert Marigold, Desert Baileya
<i>Barkleyanthus salicifolius</i>	Willow Ragwort
<i>Berlandiera lyrata</i>	Greeneyes, Lyreleaf Greeneyes
<i>Bidens bigelovii</i>	Bigelow Beggarticks
<i>Bidens laevis</i>	NA
<i>Bidens leptcephala</i>	Few Flower Beggarticks
<i>Brickellia brachyphylla</i> var. <i>terlinguensis</i>	Terlingua Brickellia
<i>Brickellia californica</i>	California Brickellbush
<i>Brickellia conduplicata</i>	Southwestern Brickellbush
<i>Brickellia coulteri</i>	Coulter Brickellbush
<i>Brickellia cylindracea</i>	Gravelbar Brickellbush
<i>Brickellia eupatorioides</i>	False Boneset
<i>Brickellia eupatorioides</i> var. <i>chlorolepis</i>	False Boneset
<i>Brickellia grandiflora</i>	Mountain Brickellbush, Tasselflower Brickellbush
<i>Brickellia laciniata</i>	Splitleaf Brickellbush

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Brickellia lemmonii	Lemmon Brickellbush
Brickellia veronicifolia	Veronicaleaf Brickellbush
Brickellia veronicifolia var. petrophila	Veronicaleaf Brickellbush
Brickelliastrum fendleri	Fendler's Brickellbush
Calyptocarpus vialis	Straggler Daisy
Carminatia tenuiflora	Plumeweed
Carphochaete bigelovii	Bigelow's Bristlehead
Centaurea americana	Basketflower, American Star Flower
Centaurea melitensis	Malta Starthistle, Napa Thistle, Spotted Knapweed
Chaetopappa bellioides	Manyflower Leastdaisy
Chaetopappa ericoides	Roseheath, Smallflower Aster
Chaptalia texana	Silverpuff, Heal & Draw
Chloracantha spinosa	Devel Weed Aster, Mexican Devilweed, Spiny Aster
Chromolaena bigelovii	Bigelow's Thoroughwort
Chrysactinia mexicana	Damianita
Chrysothamnus baileyi	Bailey's Rabbitbush
Chrysothamnus spathulatus	Guadalupe Rabbitbush
Cirsium ochrocentrum	Yellowspine Thistle
Cirsium texanum	Texas Thistle
Cirsium turneri	Cliff Thistle
Cirsium undulatum	Wavyleaf Thistle, Gray Thistle
Cirsium undulatum var. undulatum	Wavyleaf Thistle, Gray Thistle
Conoclinium greggii	Palmleaf Thoroughwort
Conyza canadensis	Canada Horseweed, Mare's Tail
Cosmos parviflorus	Southwestern Cosmos
Dicranocarpus parviflorus	NA
Dyssodia papposa	Dogbane Dyssodia, Fetid Marigold, Prairie Dogweed
Eclipta prostrata	False daisy, Eclipta
Engelmannia peristenia	Engelmann's Daisy
Erigeron colomexicanus	Running Daisy, Running Fleabane
Erigeron flagellaris	Trailing Daisy
Erigeron modestus	Plains Fleabane
Erigeron versicolor	Changing Fleabane
Eupatorium betonicifolium	NA
Eupatorium havanense	NA
Eupatorium odoratum	NA
Eupatorium rugosum	NA
Evax verna	Spring Pygmy Cudweed
Evax verna var. verna	Spring Pygmy Cudweed
Flaveria trinervia	Clustered Yellowtops
Flourensia cernua	Tarbush, American Tarwort
Flyriella parryi	Chisos Mountain Brickellbush
Gaillardia coahuilensis	NA
Gaillardia pinnatifida	Blanketflower, Red Dome, Slender Gaillardia
Galinsoga parviflora	Gallant Soldier, Littleflower Quickweed
Grindelia arizonica	Arizona Gumweed

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
<i>Grindelia havardii</i>	Havard's Gumweed
<i>Gutierrezia glutinosa</i>	NA
<i>Gutierrezia microcephala</i>	Threadleaf Snakeweed
<i>Gutierrezia sarothrae</i>	Broom Snakeweed, Broomweed, Stinkweed, Turpentineweed
<i>Gutierrezia sphaerocephala</i>	Roundleaf Snakeweed
<i>Gymnosperma glutinosum</i>	Gumhead, Sticky Selloa
<i>Haploesthes greggii</i>	Falsebroomweed
<i>Haploesthes greggii</i> var. <i>texana</i>	Texas Falsebroomweed
<i>Helenium elegans</i>	Pretty Sneezeweed
<i>Helenium elegans</i> var. <i>amphilobum</i>	Pretty Sneezeweed
<i>Helenium microcephalum</i>	Littlehead Tarweed, Smallhead Sneezeweed
<i>Helenium microcephalum</i> var. <i>microcephalum</i>	Smallhead Sneezeweed
<i>Helenium microcephalum</i> var. <i>ooclinium</i>	Smallhead Sneezeweed
<i>Helenium quadridentatum</i>	Longdisk Sneezeweed, Rosilla
<i>Helianthus annuus</i>	Annual Sunflower, Common Sunflower
<i>Helianthus ciliaris</i>	Blueweed
<i>Helianthus niveus</i> ssp. <i>canescens</i>	Showy Sunflower
<i>Helianthus petiolaris</i>	Prairie Sunflower
<i>Heliomeris longifolia</i> var. <i>longifolia</i>	Longleaf False Goldeneye
<i>Heliopsis parvifolia</i>	Mountain Oxeye
<i>Heterosperma pinnatum</i>	Wingpetal
<i>Heterotheca canescens</i>	NA
<i>Heterotheca fulcrata</i>	Mountain Camphorweed, Rockyscree False Goldenaster
<i>Heterotheca fulcrata</i> var. <i>senilis</i>	Rockyscree False Goldenaster)
<i>Heterotheca subaxillaris</i>	Camphorweed, Golden Aster
<i>Heterotheca villosa</i>	Hairy Goldenaster
<i>Hieracium schultzei</i>	Roughstem Hawkweed
<i>Hieracium wrightii</i>	Roughstem Hawkweed
<i>Hymenoclea monogyra</i>	Singlewhorl Burrobush, Cheeseweed Burrobush
<i>Hymenoxys odorata</i>	Bitterweed, Poison Rubberweed, Western Bitterweed
<i>Isocoma pluriflora</i>	Rayless Goldenrod, Southern Jimmyweed
<i>Iva ambrosiifolia</i>	Rag Sumpweed, Ragged Marshelder
<i>Jefea brevifolia</i>	Shortleaf Jefea
<i>Koanophyllon solidaginifolium</i>	Shrubby Thoroughwort
<i>Laennecia coulteri</i>	Conyza, Coulter's Horsetail, Horsetail
<i>Laennecia filaginoides</i>	TransPecos Marstail
<i>Laennecia sophiifolia</i>	Leafy Marstail
<i>Liatris punctata</i>	Dotted Blazingstar, Dotted Gayfeather
<i>Liatris punctata</i> var. <i>punctata</i>	Dotted Blazingstar, Dotted Gayfeather
<i>Machaeranthera blephariphylla</i>	NA
<i>Machaeranthera gracilis</i>	NA
<i>Machaeranthera pinnatifida</i>	Cutleaf Goldenweed, Lacy Tansyaster, Spiny Goldenweed
<i>Machaeranthera pinnatifida</i> var. <i>chihuahuana</i>	Chihuahua Tansyaster
<i>Machaeranthera pinnatifida</i> var. <i>pinnatifida</i>	Lacy Tansyaster
<i>Machaeranthera scabrella</i>	Tansyaster
<i>Machaeranthera tanacetifolia</i>	Tanseyleaf Aster, Tanseyaster

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Melampodium leucanthum	Plains Blackfoot Daisy
Nicolletia edwardsii	Edward's Hole in the Sand Plant
Packera millelobata	Uinta Ragwort
Palafoxia riograndensis	Rio Grande Palafox
Palafoxia rosea var. macrolepis	Pink Palafoxia, Rosy Palafox
Parthenium argentatum	Guayule
Parthenium confertum	Gray Feverfew
Parthenium hysterophorus	na
Parthenium incanum	Mariola
Pectis angustifolia	Lemonscent, Narrowleaf Pectis
Pectis angustifolia var. angustifolia	Lemonscent, Narrowleaf Pectis
Pectis angustifolia var. tenella	Lemonscent
Pectis cylindrica	Sonoran Cinchweed
Pectis filipes	Five Bract Cinchweed
Pectis filipes var. subnuda	Fivebract Cinchweed
Pectis papposa var. grandis	Manybristle Cinchweed
Pectis prostrata	Spreading Cinchweed
Pericome caudata	Tailleaf Pericome, Mountain Leaftail
Perityle aglossa X Perityle bisotesa var. scalaris	Rockdaisy Hybrid
Perityle aglossa	Bluff Rockdaisy
Perityle bisotesa var. scalaris	Two Bristle Rockdaisy
Perityle dissecta	Dissected Rockdaisy, Slimlobe Rockdaisy
Perityle parryi	Heartleaf Rockdaisy
Perityle rupestris	Leafy Rockdaisy
Perityle rupestris var. albiflora	Leafy Rockdaisy
Perityle vaseyi	Margined Rockdaisy, Vasey's Perityle
Pinaropappus roseus	White Rocklettuce
Pluchea purpurascens	na
Pluchea sericea	Arrowweed
Porophyllum ruderales ssp. macrocephalum	Yerba Porosa
Porophyllum scoparium	Shrubby Poreleaf, TransPecos Poreleaf
Psathyrotes scaposa	Naked Turtleback
Pseudoclappia arenaria	TransPecos False Clapdaisy
Pseudognaphalium arizonicum	Arizona Cudweed
Pseudognaphalium canescens	Wright's Cudweed
Pseudognaphalium canescens ssp. microcephalum	Wright's Cudweed
Pseudognaphalium macounii	Macoun's Cudweed
Pseudognaphalium pringlei	Pringle's Cudweed
Pseudognaphalium stramineum	Annual Cudweed, Cotton Cudweed, Cottonbatting Plant
Pseudognaphalium viscosum	Winged Cudweed
Psilactis brevilingulata	TransPecos Tansyaster
Psilostrophe gnaphalioides	Cudweed Paperflower, Dudweed
Psilostrophe tagetina	Woolly Paperflower
Psilostrophe tagetina var. cerifera	Hairy Paperflower, Woolly Paperflower
Ratibida columnifera	Prairie coneflower, Redspike Mexican Hat
Sanvitalia ocymoides	na

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Sanvitalia procumbens	Mexican Creeping Zinnia
Schkuhria anthemoidea	na
Schkuhria multiflora	Manyflower False Threadleaf
Senecio flaccidus	Douglas Senecio, Threadleaf Groundsel, Threadleaf Ragwort
Senecio flaccidus var. flaccidus	Threadleaf Groundsel, Threadleaf Ragwort
Senecio parryi	Mountain Groundsel
Simsia calva	Awnless Bushsunflower
Solidago canadensis	Canada Goldenrod
Solidago canadensis var. scabra	Canada Goldenrod
Solidago juliae	Julia's Goldenrod
Solidago radula	na
Solidago velutina	Sparse Goldenrod, Threenerve Goldenrod
Solidago wrightii	na
Sonchus asper	Perennial Sowthistle, Spiny Sowthistle
Sonchus oleraceus	Sow thistle genus
Stephanomeria pauciflora	Brownplume Wirelettuce, Fewflower Wirelettuce
Stephanomeria wrightii	na
Stevia ovata	Roundleaf Candyleaf
Stevia ovata var. texana	Texan Candyleaf
Stevia salicifolia	na
Stevia serrata	Sawtooth Candyleaf
Stevia viscida	Viscid Candyleaf
Symphotrichum divaricatum	Southern Saltbrush Aster
Symphotrichum expansum	Southwestern Annual Saltmarsh Aster
Tagetes micrantha	Licorice Marigold
Tetragonotheca texana	na
Tetrameuris scaposa	Plains Actinea, Atemmy Fournerve Daisy, Stemmy Hymenoxys
Tetrameuris scaposa var. scaposa	Stemmy Four-Nerve Daisy, Stemmy Hymenoxys
Thelesperma ambiguum	na
Thelesperma filifolium var. intermedium	Plains Greenthread, Stiff Greenthread
Thelesperma longipes	Rayless Greenthread, Longstalk Greenthread
Thelesperma megapotamicum	Greenthread, Hopi Tea Greenthread
Thelesperma simplicifolium	Slender Greenthread
Thymophylla acerosa	Prickleleaf Dogweed, Texas Dogweed
Thymophylla aurea	Manyawn Pricklyleaf
Thymophylla aurea var. polychaeta	Manyawn Pricklyleaf
Thymophylla micropoides	Woolly Pricklyleaf
Thymophylla pentachaeta	Fiveneedle Pricklyleaf
Thymophylla pentachaeta var. pentachaeta	Common Dogweed, Fiveneedle Pricklyleaf
Townsendia exscapa	Seamless Townsend Daisy
Trixis californica	American Trixis, American Threefold
Verbesina encelioides	Cowpen Daisy, Golden Crownbeard
Verbesina oreophila	Mountain Crownbeard
Vernonia marginata	Plains Ironweed
Viguiera cordifolia	Heartleaf Goldeneye, Mountain Goldeneye
Viguiera dentata	Sunflower Goldeneye, Toothleaf Goldeneye

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Viguiera multiflora	na
Viguiera stenoloba	Skeletonleaf Goldeneye
Viguiera stenoloba var. chihuahuensis	Chihuahua Resinbush
Wedelia texana	na
Xanthium strumarium	Cocklebur
Xylorhiza wrightii	Big Bend Woodyaster
Xylothamia triantha	TransPecos Desert Goldenrod
Zinnia acerosa	Desert Zinnia, Spinyleaf Zinnia
Zinnia grandiflora	na
Berberidaceae	Berberidaceae
Mahonia haematocarpa	Red Barberry, Red Mahonia
Mahonia trifoliata	Currant-of-Texas
Betulaceae	Betulaceae
Ostrya virginiana var. chisosensis	Chisos Hophornbeam
Bignoniaceae	Bignoniaceae
Chilopsis linearis	Desertwillow
Tecoma stans	Trumpetflower, Esperanza, Yellow Elder
Boraginaceae	Boraginaceae
Antiphytum heliotropioides	Mexican Saucerflower
Cryptantha albida	New Mexico Catseye, New Mexico Cryptantha
Cryptantha angustifolia	Bristlelobe Cryptantha, Penamint Catseye
Cryptantha crassipes	na
Cryptantha crassisejala	Deertongue, Thicksepal Cryptantha
Cryptantha mexicana	Mexican Cryptanthe, Mexican Catseye
Cryptantha minima x	na
Cryptantha palmeri	Palmer's Catseye, Palmer's Cryptanthe
Hackelia besseyi	na
Hackelia pinetorum	Livermore Stickseed
Heliotropium confertifolium	Leafy Heliotrope
Heliotropium convolvulaceum	Bindweed Heliotrope, Phlox Heliotrope, Wideflower Heliotrope
Heliotropium curassavicum	Quail Plant, Salt Heliotrope, Seaside Heliotrope
Heliotropium glabriusculum	Greeneye Heliotrope
Heliotropium greggii	Fragrant Heliotrope
Heliotropium molle	Soft Heliotrope
Heliotropium procumbens	Fourspike Heliotrope
Heliotropium procumbens	na
Heliotropium torreyi	Jerusalem Artichoke, Slimeleaf Heliotrope
Lappula occidentalis var. occidentalis	Desert Stickseed, Flatspine Stickseed, Western Stickseed
Lithospermum incisum	Fringed Gromwell, Fringed Puccoon, Narrowleaf Gromwell
Lithospermum multiflorum	Manyflowered Stoneseed, Purple Puccoon
Lithospermum viride	Green Gromwell, Green Stoneseed
Omphalodes aliena	Mexican Navelwort
Tiquilia canescens	Ratear Coldenia, Woody Crinklemat
Tiquilia canescens var. canescens	Crinklemat, Gray Coldenia, Gray Tiquilia, Ratear Coldenia
Tiquilia gossypina	Texas Crinklemat
Tiquilia greggii	Gregg Coldenia, Plumed Crinklemat

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Tiquilia hispidissima	Hairy Coldenia, Hairy Crinklemat
Tiquilia mexicana	Mexican Coldenia, Mexican Crinklemat
Brassicaceae	Brassicaceae
Arabis fendleri	Fendler Rockcress
Brassica kaber	na
Brassica rapa var. rapa	Bird rape, Common Mustard, Field Mustard
Cardamine macrocarpa	Largeseed Bittercress
Cardamine macrocarpa var. texana	Texas Bittercress
Descurainia pinnata	Green Tansymustard, Pinnate Tansymustard, Western Tansymustard
Descurainia richardsonii	na
Descurainia sophia	Flaxweed Tansymustard, Flixweed Tansymustard
Dimprphocarpa wislizeni	Spectacle Pod, Touristplant
Draba cuneifolia	Wedgeleaf Draba, Wedgeleaf Whitlowgrass
Eruca vesicaria ssp. sativa	Arugula, Garden Rocket, Rocketsalad
Erysimum capitatum	Coast Wallflower, Sanddune Wallflower, Western Wallflower
Erysimum capitatum var. capitatum	Plains Wallflower, Prairie Rocket, Sanddune Wallflower
Erysimum capitatum var. purshii	Pursh's Wallflower
Halimolobos diffusa	Spreading Fissurewort
Lepidium alyssoides	Mesa Pepperwort, Southern Pepperweed
Lepidium alyssoides var. angustifolium	Mountain Pepperweed, Mesa Pepperwort
Lepidium austrinum	Southern Pepperweed
Lepidium lasiocarpum var. wrightii	Wright pepperweed
Lepidium oblongum	Veiny Pepperweed
Lepidium sordidum	Sordid Pepperweed
Lesquerella argyraea	na
Lesquerella fendleri	Fendler Bladderpod
Lesquerella gordonii	Gordon Bladderpod
Lesquerella mcvaughiana	McVaugh's Bladderpod
Lesquerella purpurea	Purple Bladderpod, Rose Bladderpod
Mancoa pubens	TransPecos Cress
Nerisyrenia camporum	Bicolor Mustard, Mesa Greggia
Pennellia micrantha	Mountain Mock Thelypody
Rorippa nasturtium-aquaticum	Watercress
Rorippa ramosa	Durango Yellowcress
Rorippa sinuata	na
Rorippa teres	Southern Marsh Yellowcress
Schoenocrambe linearifolia	Slimleaf Plains Mustard
Selenia dissecta	Texas Selenia
Sinapis arvensis	Charlock, Corn Mustard, Wild Mustard
Sisymbrium auriculatum	Eared Hedgemustard
Sisymbrium irio	London Rocket, Rocketmustard
Stanleya pinnata	na
Streptanthus carinatus	Lyreleaf Twistflower
Streptanthus carinatus ssp. carinatus	Lyreleaf Jewelflower
Streptanthus cutleri	Cutler's Jewelflower
Streptanthus platycarpus	Broadpod Jewelflower

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Synthlipsis greggii	Gregg's Keelpod
Thelypodium texanum	Texas Thelypody
Thelypodium wrightii	Wright's Thelypody
Bromeliaceae	Bromeliaceae
Hechtia texensis	Texas False Agave
Tillandsia recurvata	Ball Moss
Buddlejaceae	Buddlejaceae
Buddleja marrubiifolia	Woolly Butterflybush
Buddleja scordioides	na
Cactaceae	Cactaceae
Ariocarpus fissuratus	Living rock
Coryphantha chaffeyi	Chaffey's Foxtail Cactus
Coryphantha dasyacantha	Big Bend Foxtail Cactus
Coryphantha duncanii	Duncan's Foxtail Cactus
Coryphantha echinus	Sea Urchin Cactus, Rhinoceros Cactus
Coryphantha echinus var. echinus	Sea Urchin Cactus, Rhinoceros Cactus
Coryphantha echinus var. robusta	Clumped Sea Urchin Cactus
Coryphantha macromeris var. macromeris	Nipple Beehive Cactus, Big Needle Pincushion Cactus
Coryphantha ramillosa	Big Bend Cory Cactus, Bunched Cory Cactus
Coryphantha scheeri var. scheeri	Long-Tubercled Coryphantha
Coryphantha sneedii var. albicolumnaria	Silverlace Cactus
Coryphantha tuberculosa var. tuberculosa	Cob Cactus
Coryphantha tuberculosa var. varicolor	Cob Cactus
Echinocactus horzonthalonius	Turk's Cap Cactus, Devil's head, Eagle Claw
Echinocactus texensis	Horse Crippler, Devil's Pincushion
Echinocereus chisoensis	Chisos Hedgehog Cactus
Echinocereus coccineus var. paucispinus	Claret Cup Cactus, Scarlet Hedgehog Cactus
Echinocereus dasyacanthus	Rainbow Cactus, Yellow Pitaya
Echinocereus enneacanthus var. enneacanthus	Smallspine Pitaya, False Strawberry Pitaya
Echinocereus fendleri var. fendleri	Fendler's Hedgehog Cactus
Echinocereus pectinatus	na
Echinocereus stramineus var. stramineus	Strawberry Pitaya, Strawberry Hedgehog Cactus
Echinocereus viridiflorus var. davisii	Davis' Green Pitaya, Davis' Hedgehog Cactus
Echinocereus viridiflorus var. rusanthus	Brown-flowered cactus
Echinocereus viridiflorus var. weedinii	Weedin's Brownflowered Cactus
Echinocereus X neomexicanus	Triploid Hybrid Hedgehog Cactus
Echinomastus intertextus var. intertextus	Pineapple Cactus
Echinomastus mariposensis	Lloyd's Mariposa Cactus
Echinomastus warnockii	Warnock's Cactus
Epithelantha bokei	Boke's Button Cactus
Epithelantha micromeris var. micromeris	Pingpong Ball Cactus
Ferocactus hamatacanthus var. hamatacanthus	Giant Fishhook Cactus
Glandulicactus uncinatus var. wrightii	Fish-hook cactus
Mammillaria heyderi var. heyderi	Heyder's Nipple Cactus
Mammillaria lasiacantha	Golfball Cactus, Lacespine Nipple Cactus
Mammillaria meiacantha	Little Nipple Cactus

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Mammillaria pottsii	Pott's Mammillaria
Neolloydia conoidea	Chihuahuan Beehive
Opuntia aggeria	Big Bend Cholla
Opuntia aureispina X O. macrocentra	Opuntia Hybrid
Opuntia azurea var. aureispina	Rio Grande Prickly Pear
Opuntia azurea var. diplopurpurea	Big Bend Diploid Purple Prickly pear
Opuntia azurea var. parva	Big Bend Purplish Prickly Pear
Opuntia camanchica	Comanche Prickly Pear
Opuntia chisosensis	Chisos Prickly Pear
Opuntia densispina	Big Bend Dense Spined Dog Cholla
Opuntia dulcis	Sweet Prickly Pear
Opuntia engelmannii var. engelmannii	Engelmann's Prickly Pear
Opuntia engelmannii var. lindheimeri	Lindheimer's Prickly Pear
Opuntia engelmannii var. linguiformis	Cow Tongue Prickly Pear, Cactus Apple
Opuntia engelmannii X Opuntia phaeacantha	Opuntia Hybrid
Opuntia grahamii X Opuntia schottii	Opuntia Hybrid
Opuntia imbricata	Tree Cholla, Cane Cholla
Opuntia imbricata var. arborescens	Tree Cholla, Walkingstick Cholla, Cane Cholla
Opuntia imbricata var. argentea	Tree Cholla, Icicle Cholla
Opuntia kleiniae	Candle Cholla, Klein Cholla,
Opuntia leptocaulis	Christmas Cholla, Pencil Cholla, Tasajillo
Opuntia mackensenii var. minor	Short-Spined Purplish Prickly Pear
Opuntia macrocentra	Purple Prickly Pear
Opuntia phaeacantha	na
Opuntia phaeacantha	Brownspear Prickly Pear
Opuntia pottsii	Potts' Prickly Pear
Opuntia rufida	Blind Prickly Pear
Opuntia santa-rita	na
Opuntia schottii var. grahamii	Mounded Dwarf Cholla
Opuntia schottii var. schottii	Dog Cholla
Opuntia spinosibacca	Spiny Fruited Prickly Pear
Opuntia tortispina	na
Opuntia moelleri	X
Peniocereus greggii	Nightblooming Cactus
Thelocactus bicolor var. bicolor	Glory of Texas
Campanulaceae	Campanulaceae
Campanula rotundifolia	na
Lobelia berlandieri var. brachypoda	Berlandier's Lobelia
Lobelia cardinalis	Cardinal Flower
Lobelia fenestralis	na
Capparaceae	Capparaceae
Cleomella longipes	Chiricahua Mountain Stinkweed
Koeberlinia spinosa	Allthorn, Crown of Thorns
Polanisia uniglandulosa	Mexican Clammyweed
Caprifoliaceae	Caprifoliaceae
Lonicera albiflora	Western White Honeysuckle, White Honeysuckle

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Sambucus nigra ssp. cerulea	Blue Elderberry
Symphoricarpos palmeri	Palmer Snowberry
Caryophyllaceae	Caryophyllaceae
Arenaria benthamii	na
Arenaria lanuginosa	na
Arenaria ludens	TransPecos Sandwort
Cerastium axillare	TransPecos Chickweed
Cerastium brachypodium	Bractpod Chickweed, Mouseear Chickweed
Cerastium glomeratum	Sticky Chickweed
Drymaria laxiflora	TransPecos Drymary
Drymaria leptophylla	Canyon Drymary
Drymaria pachyphylla	Thickleaf Drymary
Paronychia jamesii	James' Nailwort
Silene antirrhina	Sleepy Champion, Sleepy Catchfly
Silene laciniata	Mexican Champion, Mexican Catchfly, Cardinal Catchfly
Silene laciniata ssp. greggii	Cardinal Catchfly, Gregg's Champion
Stellaria cuspidata	Mexican Starwort
Stellaria prostrata	NA
Celastraceae	Celastraceae
Celastrus scandens	American Bitterweet, Staffvine, Waxwork
Forsellesia greggii	NA
Glossopetalon spinescens	Spiny Greasebush
Mortonia scabrella	Rio Grande Saddlebush
Mortonia sempervirens	Rio Grande Saddlebush
Schaefferia cuneifolia	Desert Yaupon
Chenopodiaceae	Chenopodiaceae
Atriplex acanthocarpa	Tubercled Saltbush
Atriplex canescens	Fourwing Saltbush
Atriplex elegans	Wheelscale Saltbush
Atriplex obovata	Mound Saltbush, Silver Saltbush
Atriplex rosea	Redscale Saltbush, Tumbling Saltweed
Chenopodium album	Common Lambsquarters, White Goosefoot
Chenopodium ambrosioides	NA
Chenopodium atrovirens	Dark Goosefoot, Pinyon Goosefoot
Chenopodium berlandieri	Netseed Lambsquarters, Pigseed Goosefoot
Chenopodium fremontii	Fremont's Goosefoot
Chenopodium graveolens	Fetid Goosefoot
Chenopodium incanum	Mealy Goosefoot
Chenopodium incanum var. elatum	Mealy Goosefoot
Chenopodium leptophyllum	Narrowleaf Goosefoot, Slimleaf Lambsquarters
Chenopodium murale	Nettleleaf Goosefoot
Chenopodium neomexicanum	NA
Chenopodium pratericola	Desert Goosefoot
Corispermum americanum	American Bugseed
Corispermum nitidum	NA
Cycloloma atriplicifolium	Tumble Ringwing, Winged Pigweed

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Monolepis nuttalliana	Nuttall's Povertyweed, Patata
Salsola tragus	Prickly Russian Thistle
Suaeda suffrutescens	Desert Seepweed
Cistaceae	Cistaceae
Helianthemum glomeratum	Clustered Frostweed
Lechea mensalis	Chisos Mountain Pinweed
Commelinaceae	Commelinaceae
Commelina dianthifolia	Birdbill Dayflower
Commelina elegans	NA
Commelina erecta	Erect Dayflower, Whitemouth Dayflower
Commelina erecta var. augustifolia	Whitemouth Dayflower
Setcreasea leiandra	NA
Tradescantia brevifolia	TransPecos Spiderwort
Tradescantia wrightii var. glandulopubescens	Wright's Spiderwort
Convolvulaceae	Convolvulaceae
Bonamia ovalifolia	Bigpod Lady's Nightcap
Bonamia repens	Creeping Lady's Nightcap
Convolvulus equitans	Gray Bindweed, Texas Bindweed
Dichondra argentea	Silver Ponyfoot
Dichondra brachypoda	New Mexico Ponyfoot
Evolvulus alsinoides	Slender Dwarf Morning Glory
Evolvulus alsinoides var. angustifolius	Dwarf Morning Glory
Evolvulus nuttalianus	Shaggy Dwarf Morning Glory
Heliotropium convolvulaceum	Bindweed Heliotrope, Phlox Heliotrope
Ipomoea barbatisejala	NA
Ipomoea capillacea	Purple Morning Glory
Ipomoea cardiophylla	Heartleaf Morning Glory
Ipomoea cordatotriloba	Cotton Morning Glory, Tievine
Ipomoea costellata	Crestrub Morning Glory
Ipomoea cristulata	TransPecos Morning Glory
Ipomoea hederifolia	NA
Ipomoea lindheimeri	Lindheimer's Morning Glory, Blue Morning Glory
Ipomoea pubescens	NA
Ipomoea purpurea	Common Morning Glory, Tall Morning Glory
Ipomoea rupicola	Cliff Morning Glory
Ipomoea tenuiloba	Spiderleaf
Merremia dissecta	Noyau Vine
Crassulaceae	Crassulaceae
Echeveria strictiflora	Desert Savior
Gormania havardii	NA
Sedum havardii	Havard's Stonecrop
Sedum moranense	NA
Sedum nanifolium	Dwarf Stonecrop
Sedum wrightii	Wright's Stonecrop
Villadia squamulosa	Rat's Tail Succulent
Cucurbitaceae	Cucurbitaceae

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Apodanthera undulata	Melon Loco
Cucurbita foetidissima	Buffalo Gourd, Wild Gourd, Wild Pumpkin
Ibervillea lindheimeri	Balsamgourd, Lindheimer Globeberry, Rio Grande Globeberry
Ibervillea tenuisecta	Deer Apples, Slimlobe Globeberry
Sicyos glaber	Smooth Burr Cucumber
Sicyos laciniatus	NA
Sicyos microphyllus	Burr Cucumber
Sicyos parviflorus	NA
Cupressaceae	Cupressaceae
Cupressus arizonica	Arizona Cypress
Cupressus arizonica ssp. arizonica	Arizona Cypress
Juniperus coahuilensis	Redberry Juniper, Pinchot Juniper
Juniperus deppeana	Alligator Juniper, Checkerbark Juniper
Juniperus deppeana var. deppeana	Alligator Juniper
Juniperus flaccida	Drooping Juniper, Weeping Juniper
Juniperus monosperma	One Seed Juniper
Juniperus pinchotii	Redberry Juniper, Pinchot Juniper
Cuscutaceae	Cuscutaceae
Cuscuta indecora	Pretty Dodder, Largeseed Dodder
Cuscuta indecora var. indecora	Bigseed Alfalfa Dodder
Cuscuta indecora var. neuropetala	Bigseed Alfalfa Dodder
Cuscuta pentagona	Bush-clover Dodder, Field Dodder, Five Angled Dodder
Cuscuta umbellata	Flat Globe Dodder
Cyperaceae	Cyperaceae
Bulbostylis capillaris	Densetuft hairsedge, Threadleaf Beakseed
Bulbostylis juncoides	Rush Hairsedge
Carex agrostoides	Grassleaf Sedge
Carex geophila	White Mountain Sedge
Carex lativena	Broadvein Sedge
Carex microdonta	Littletooth Sedge
Carex muriculata	Schiede's Sedge
Carex planostachys	Cedar Sedge
Carex schiedeana	Schiede's Sedge
Carex schweinitzii	Schweinitz's Sedge
Cladium mariscus ssp. jamaicense	Jamaica Sawgrass
Cyperus acuminatus	NA
Cyperus elegans	Royal Flatsedge, Sticky Flatsedge
Cyperus esculentus	NA
Cyperus fendlerianus	Fendler's Flatsedge
Cyperus hermaphroditus	NA
Cyperus laevigatus	Smooth Flatsedge
Cyperus odoratus	Fragrant Flatsedge, Rusty Flatsedge
Cyperus retroflexus	Oneflower Flatsedge
Cyperus schweinitzii	NA
Cyperus seslerioides	Texas Flatsedge
Cyperus sphaerolepis	Rusby's Flatsedge

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Cyperus squarrosus	Awed Flatsedge, Bearded Nutgrass
Eleocharis geniculata	Canada Spikesedge
Eleocharis interstincta	NA
Eleocharis montevidensis	Sand Spikerush
Eleocharis palustris	Common Spikerush, Creeping Spikerush
Eleocharis parvula	Dwarf Spikerush, Littlehead Spikerush
Eleocharis rostellata	Beaked Spikerush, Beaked Spikesedge
Fimbristylis autumnalis	NA
Fimbristylis tomentosa	NA
Fuirena simplex	Western Umbrellasedge
Fuirena simplex var. aristulata	Western Umbrellasedge
Fuirena simplex var. simplex	Western Umbrellasedge
Fuirena squarrosa	Hairy Umbrellasedge
Lipocarpa aristulata	Awed Halfchaff Sedge
Schoenoplectus pungens var. longispicatus	Common Threesquare
Scirpus californicus	NA
Scirpus olneyi	NA
Dryopteridaceae	Dryopteridaceae
Pteridium aquilinum var. pubescens	Bracken Fern, Eagle Fern, Hairy Brackenfern, Western Bracken
Phanerophlebia umbonata	Bellybutton Veinfern
Woodsia mexicana	NA
Woodsia neomexicana	New Mexico Cliff Fern
Woodsia neomexicana X W. phillipsii	Hybrid
Woodsia phillipsii	Phillips' Cliff Fern
Ebenaceae	Ebenaceae
Diospyros texana	Texas Persimmon
Ephedraceae	Ephedraceae
Ephedra antisyphilitica	Erect Ephedra, Clapweed
Ephedra aspera	Mormon Tea, Rough Jointfir
Ephedra pedunculata	NA
Ephedra torreyana var. powelliorum	Torrey's Jointfir
Ephedra trifurca	Longleaf Ephedra
Equisetaceae	Equisetaceae
Equisetum laevigatum	Smooth Horsetail, Smooth Scouringrush
Ericaceae	Ericaceae
Arbutus xalapensis	Texas Madrone
Euphorbiaceae	Euphorbiaceae
Acalypha monostachya	Round Copperleaf
Acalypha neomexicana	New Mexico Copperleaf
Acalypha phleoides	Shrubby Copperleaf
Acalypha radians	NA
Argythamnia humilis var. humilis	Low Silverbush, Low Wildmercury
Argythamnia neomexicana	Common Silverbush, New Mexico Silverbush
Bernardia myricifolia	NA
Bernardia obovata	Desert Myrtlecroton
Chamaesyce acuta	Pointed Sandmat

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Chamaesyce albomarginata	Rattlesnake Weed, Whitemargin Sandmat
Chamaesyce arizonica	Arizona Sandmat
Chamaesyce capitellata	Head Sandmat
Chamaesyce chaetocalyx	Bristlecup Sandmat
Chamaesyce chaetocalyx var. chaetocalyx	Bristlecup Sandmat
Chamaesyce chaetocalyx var. triligulata	Bristlecup Sandmat
Chamaesyce cinerascens	Ashy Sandmat
Chamaesyce fendleri	Fendler's Sandmat
Chamaesyce glyptosperma	Ribseed Sandmat
Chamaesyce golondrina	Boquillas Sandmat
Chamaesyce hyssopifolia	Hyssop Spurge, Leafy Spurge
Chamaesyce melandenia	Squaw Sandmat
Chamaesyce micromera	Desert Spurge, Sonoran Sandmat
Chamaesyce nutans	Eyebane
Chamaesyce perennans	Perennial Sandmat
Chamaesyce prostrata	Prostrate Sandmat, Prostrate Spurge
Chamaesyce revoluta	Threadseam Sandmat
Chamaesyce serpens	Matted Sandmat, Serpent Spurge
Chamaesyce serpyllifolia	Thymeleaf Sandmat
Chamaesyce serpyllifolia ssp. serpyllifolia	Thymeleaf Spurge
Chamaesyce serrula	Sawtooth Sandmat
Chamaesyce setiloba	Yuma Sandmat, Yuma Spurge
Chamaesyce simulans	Smallseed Sandmat
Chamaesyce stictospora	Slimseed Sandmat
Chamaesyce theriaca	Terlingua Sandmat
Chamaesyce theriaca var. spurca	Terlingua Sandmat
Chamaesyce villifera	Hairy Sandmat
Croton bigbendensis	Big Bend Croton
Croton dioicus	Grassland Croton
Croton fruticosus	Bush Croton, Shrubby Croton
Croton incanus	Torrey's Croton
Croton leucophyllus	Two Color Croton
Croton lindheimerianus	Threeseed Croton
Croton lindheimerianus var. tharpai	Tharp Croton
Croton pottsii	Leatherweed Croton
Croton pottsii var. thermophilus	Leatherweed Croton
Croton texensis	Doveweed
Euphorbia antisyphilitica	Candelilla
Euphorbia brachycera	Horned Spruce
Euphorbia davidii	David's Spurge, Poinsettia
Euphorbia dentata	Green Poinsettia, Toothed Euphorbia
Euphorbia eriantha	Beetle Spurge, Mexican Poinsettia
Euphorbia exstipulata	Squareseed Spurge
Euphorbia exstipulata var. exstipulata	Squareseed Spurge
Euphorbia heterophylla	NA
Euphorbia lata	NA

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Euphorbia missurica	NA
Euphorbia wrightii	NA
Jatropha dioica	Leatherstem
Jatropha dioica var. graminea	Leatherstem
Jatropha spathulata	Leatherstem
Leptopus phyllanthoides	Missouri Maidenbush
Phyllanthus polygonoides	Knotweed Leafflower, Smartweed Leafflower
Stillingia treculiana	NA
Tragia amblyodonta	Dogtooth Noseburn
Tragia ramosa	Branched Noseburn, Catnip Noseburn
Fabaceae	Fabaceae
Acacia angustissima	Prairie Acacia, Whiteball Acacia
Acacia angustissima var. chisosiana	Chisos Acacia
Acacia angustissima var. texensis	Prairie Wattle, Whiteball Acacia
Acacia berlandieri	Berlandier Acacia, Guajillo
Acacia constricta	Whitethorn Acacia
Acacia farnesiana	Huisache
Acacia greggii	Catclaw Acacia
Acacia greggii var. greggii	Arizona Acacia, Catclaw Mimosa
Acacia neovernicosa	Viscid Acacia
Acacia rigidula	Blackthorn Acacia
Acacia roemeriana	Roemer Acacia, Roundflower Catclaw
Acacia schottii	Schott Acacia
Astragalus emoryanus	Emory Milkvetch
Astragalus emoryanus var. terlinguensis	Emory's Milkvetch
Astragalus leptocarpus	NA
Astragalus mollissimus	Woolly Locoweed
Astragalus mollissimus var. earlei	Earle's Wolly Milkvetch, Woolly Locoweed
Astragalus nuttallianus	Nuttall Milkvetch, Smallflower Milkvetch
Astragalus nuttallianus var. austrinus	Smallflowered Milkvetch
Brongniartia minutifolia	Littleleaf Greentwig
Caesalpinia gilliesii	Bird of Paradise
Caesalpinia jamesii	NA
Caesalpinia parryi	Parry's Holdback
Caesalpinia wootonii	Wooton's Holdback
Calliandra herbacea	NA
Calliandra humilis	Dwarf Stickpea, Mountain Calliandra
Calliandra iselyi	Isely's Stickpea
Calliandra parryi	NA
Cercidium texanum	NA
Cercis canadensis var. mexicana	Mexican Redbud
Chamaecrista greggii	NA
Cologania angustifolia	Longleaf Cologania
Dalea aurea	Golden Dalea
Dalea formosa	Feather Dalea, Featherplume
Dalea frutescens	Black Dalea

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Dalea greggii	Gregg Dalea, Gregg Prairieclover
Dalea jamesii	James' Dalea
Dalea lachnostachys	Glandleaf Prairieclover
Dalea lanata var. terminalis	Wooly Dalea, Woolly Prairieclover
Dalea leporina	Foxtail Dalea
Dalea nana	Dwarf Dalea
Dalea nana var. carnescens	Dwarf Prairieclover
Dalea neomexicana	New Mexico Dalea, Downy Prairieclover
Dalea neomexicana var. longipila	Downy Prairieclover
Dalea pogonathera	Bearded Dalea
Dalea pogonathera var. pogonathera	Bearded Dalea, Bearded Prairieclover
Dalea polygonoides	Sixweeks Prairieclover
Dalea wrightii	Wright's Dalea
Desmanthus cooleyi	Cooley's Bundleflower, James Bundleflower
Desmanthus glandulosus	Glandular Bundleflower
Desmanthus obtusus	Bluntpod Bundleflower
Desmanthus velutinus	Velvet Bundleflower
Desmodium grahamii	Graham's Tick Trefoil
Desmodium psilophyllum	Simpleleaf Tick Trefoil
Eysenhardtia texana	Texas Kidneywood
Hoffmanseggia drepanocarpa	Rushpea
Hoffmanseggia glauca	Indian Rushpea
Indigofera lindheimeriana	NA
Leucaena retusa	Littleleaf Leadtree
Lotus oroboides	NA
Lotus plebeius	Common Birdsfoot Trefoil, Lonbrack Trefoil
Lupinus havardii	Big Bend Bluebonnet, Chisos Bluebonnet
Macroptilium atropurpureum	NA
Medicago polymorpha	California Burclover, Toothed Medick
Medicago sativa	Alfalfa
Melilotus alba	White Sweetclover
Melilotus indicus	Indian Sweetclover, Yellow Sweetclover
Melilotus officinalis	NA
Mimosa aculeaticarpa var. biuncifera	Catclaw Mimosa
Mimosa borealis	Fragrant Mimosa
Mimosa dysocarpa	Velvetpod Mimosa
Mimosa emoryana	Emory's Mimosa
Mimosa texana	Texas Mimosa
Mimosa turneri	Desert Mimosa
Mimosa warnockii	Warnock's Mimosa
Neptunia pubescens var. microcarpa	Tropical Puff
Nissolia platycalyx	Broadsepal Yellowhood
Parkinsonia aculeata	Jerusalem Thorn, Palo Verde, Retama
Peteria scoparia	Rush Peteria
Phaseolus acutifolius	Tepary Bean
Phaseolus angustissimus	Slimleaf Bushbean

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Phaseolus filiformis	Slimjim Bean
Phaseolus grayanus	Gray's Bean
Phaseolus pedicellatus	Sonoran Bean
Prosopis glandulosa	Honey Mesquite
Prosopis glandulosa var. glandulosa	Honey Mesquite
Prosopis glandulosa var. torreyana	Western Honey Mesquite
Prosopis pubescens	Screwbean Mesquite, Tornillo
Rhynchosia minima	NA
Rhynchosia senna	Texas Snoutbeen
Rhynchosia senna var. texana	Rosary Bean, Texas Snoutbean
Senna baubinioides	Twinleaf Senna
Senna durangensis	Durango Senna
Senna lindheimeriana	Showy Senna, Velvet Leaf Senna
Senna orcuttii	Orcutt's Senna, Orcutt's Wild Sensitive Plant
Senna pilosior	TransPecos Senna, TransPecos Wild Sensitive Plant
Senna pumilio	NA
Senna ripleyana	Ripley's Senna, Ripley's Wild Sensitive Plant
Senna roemeriana	Roemer Senna, Twoleaf Senna, Twoleaf Wild Sensitive Plant
Sophora secundiflora	Mescalbean
Vicia ludoviciana var. occidentalis	Slim Vetch
Vicia ludoviciana ssp. ludoviciana	Slim Vetch, Louisiana Vetch
Fagaceae	Fagaceae
Quercus buckleyi	NA
Quercus carmenensis	Mexican Oak
Quercus emoryi	Emory Oak
Quercus emoryi X Q. graciliformis	Hybrid
Quercus emoryi X Q. gravesii	Hybrid
Quercus fusiformis	NA
Quercus gambelii	Gambel Oak
Quercus gambelii X Q. grisea	Hybrid
Quercus graciliformis	Chisos Oak
Quercus gravesii	Chisos Red Oak, Graves Oak
Quercus grisea	Gray Oak
Quercus grisea X Q. diversicolor	Hybrid
Quercus grisea X Q. rugosa	Hybrid
Quercus hinckleyi	NA
Quercus hypoleucoides	NA
Quercus intricata	Coahuila Scrub Oak
Quercus laceyi	Lacey Oak
Quercus mohriana	Mohr Oak, Mohr's Shinoak
Quercus muehlenbergii	Chinkapin Oak
Quercus pungens	Pungent Oak, Shin Oak
Quercus robusta	Robust Oak
Quercus rugosa	Netleaf Oak
Quercus rugosa X Q. grisea	Hybrid
Quercus sinuata	Bastard Oak, Wavyleaf Shinoak
Quercus tardifolia	Lateleaf Oak

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Quercus undulata	NA
Quercus vaseyana	Sandpaper Oak
Fouquieriaceae	Fouquieriaceae
Fouquieria splendens	Ocotillo
Fumariaceae	Fumariaceae
Corydalis aurea ssp. aurea	Scrambled Eggs
Corydalis curvisiliqua ssp. curvisiliqua	Curvepod Fumewort
Garryaceae	Garryaceae
Garrya ovata	Eggleaf Silktassel
Garrya ovata ssp. goldmanii	Goldman's Silktassel
Garrya wrightii	NA
Gentianaceae	Gentianaceae
Centaurium arizonicum	Arizona Centuary
Centaurium calycosum	Rosita, Arizona Centuary
Centaurium calycosum var. calycosum	Rosita, Arizona Centuary
Eustoma exaltatum	Catchfly Prairie Gentian, Alkali Chalice
Eustoma exaltatum ssp. russellianum	Showy Prairie Gentian
Geraniaceae	Geraniaceae
Erodium cicutarium	Alfilaree, California Filaree, Cutleaf Filaree, Redstem Filaree
Erodium texanum	Texas Storkbill, Texas Filaree
Geranium caespitosum	Pineywoods Geranium, Purple Cluster Geranium
Grossulariaceae	Grossulariaceae
Ribes aureum	Golden Currant
Hydrangeaceae	Hydrangeaceae
Fendlera rigida	Stiff Fendlerbush
Fendlera rupicola	Cliff Fendlerbush
Philadelphus microphyllus	Littleleaf Mockorange
Philadelphus microphyllus var. microphyllus	Littleleaf Mockorange
Philadelphus serpyllifolius	NA
Hydrocharitaceae	Hydrocharitaceae
Vallisneria americana	Water Celery, American Eelgrass
Hydrophyllaceae	Hydrophyllaceae
Nama dichotomum	Wishbone Fiddleleaf
Nama havardii	Havard's Fiddleleaf
Nama hispidum	Bristly Nama, Purple Mat
Nama torynophyllum	Matted Fiddleleaf
Nama undulatum	NA
Phacelia caerulea	Skyblue Phacelia
Phacelia congesta	Blue Curls, Spike Phacelia
Phacelia infundibuliformis	Rio Grande Phacelia, Rio Grande Scorpionweed
Phacelia integrifolia	Gypsum Phacelia, Scorpionweed
Phacelia integrifolia var. texana	Gyp Phacelia, Scoipion Weed, Texan Phacelia
Phacelia pallida	Pale Phacelia, Pale scorpionweed
Phacelia popei	Pope's Phacelia, Pope's Scorpionweed
Phacelia robusta	Stout Phacelia
Phacelia rupestris	Rock Phacelia
Juglandaceae	Juglandaceae

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Carya illinoensis	Pecan
Juglans major	Arizona Black Walnut, New Mexico Walnut
Juglans microcarpa	River Walnut, Little Walnut
Juglans microcarpa var. stewartii	Stewart's Little Walnut
Juncaceae	Juncaceae
Juncus acuminatus	Sharp Fruit Rush, Tapertip Rush
Juncus balticus	Baltic rush
Juncus bufonius	Toadrush
Juncus dudleyi	Dudley Rush
Juncus ensifolius	Swordleaf Rush, Three-Stamened Rush
Juncus interior	Inland Rush
Juncus interior var. arizonicus	Arizona Rush
Juncus marginatus	Grassleaf Rush
Juncus nodosus	Jointed Rush, Knotted Rush
Juncus saximontanus	Rocky Mountain Rush
Juncus scirpoides	Needlepod Rush
Juncus tenuis var. tenuis	Poverty Rush
Juncus torreyi	Torrey Rush
Krameriaceae	Krameriaceae
Krameria erecta	Littleleaf Ratany, Range Ratany
Krameria grayi	White Ratany
Lamiaceae	Lamiaceae
Agastache micrantha	White Giant Hyssop
Agastache pallidiflora	Bill William's Mountain Giant Hyssop
Agastache pallidiflora ssp. neomexicana	Bill William's Mountain Giant Hyssop, New Mexcian Giant Hyssop
Agastache pallidiflora var. havardii	Bill William's Mountain Giant Hyssop
Hedeoma costata	False Pennyroyal, Ribbed False Pennyroyal
Hedeoma drummondii	Drummond Falsepennyroyal
Hedeoma mollis	Falsepennyroyal, Mock Pennyroyal
Hedeoma nana	Dwarf Falsepennyroyal
Hedeoma plicata	Veiny Falsepennyroyal
Hedeoma reverchonii var. serpyllifolia	Reverchon's Falsepennyroyal
Marrubium vulgare	White Horehound
Mentha arvensis	Field Mint, Wild Mint
Mentha piperita	NA
Mentha spicata	Spearmint
Poliomintha glabrescens	Leafy Rosemarymint
Salazaria mexicana	Mexican Bladdersage
Salvia arizonica	Arizona Sage, Desert Indigo Sage
Salvia ballotaeflora	NA
Salvia greggii	Autumn Sage
Salvia lycioides	Canyon Sage
Salvia reflexa	Rocky Mountain Sage, Blue Sage
Salvia regla	Mountain Sage
Salvia roemeriana	Cedar Sage
Scutellaria drummondii	NA

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Scutellaria microphylla	Littleleaf Skullcap
Scutellaria potosina	Mexican Skullcap
Scutellaria potosina var. tessellata	Mexican Skullcap
Scutellaria wrightii	Resinous Skullcap, Wright's Skullcap
Stachys bigelovii	Rock Hedgenettle
Stachys coccinea	Scarlet Hedgenettle, Texas Betony
Teucrium coahuilanum	NA
Teucrium cubense	Small Coastal Germander
Teucrium cubense var. densum	Small Coastal Germander
Teucrium laciniatum	Lacy Germander
Liliaceae	Liliaceae
Allium cernuum	Nodding Onion
Allium drummondii	Drummond's Onion
Allium glandulosum	Gland Onion
Allium kunthii	Kunth's Onion
Allium perdulce var. sperryi	Sperry's Onion
Asparagus officinalis	Garden Asparagus
Nothoscordum bivalve	Crow Poison
Nothoscordum texanum	NA
Linaceae	Linaceae
Linum aristatum	NA
Linum australe	Southern Flax
Linum berlandieri	Berlandier's Yellow Flax
Linum berlandieri var. filifolium	Berlandier's Yellow Flax
Linum hudsonioides	Texas Flax
Linum imbricatum	Tufted Flax, Toothed Flax
Linum lewisii	Blue Flax, Lewis Flax, Prairie Flax
Linum rupestre	Rock Flax
Linum schiedeanum	Schied's Flax
Linum sulcatum	Grooved Yellow Flax
Linum vernale	Chihuahuan Flax
Loasaceae	Loasaceae
Cevallia sinuata	Stinging Cevallia
Eucnide bartonioides	Warnock's Rock Nettle, Stinging Rock Nettle, Yellow Stingbush
Mentzelia asperula	Mountain Stickleaf, Organ Mountain Blazingstar
Mentzelia lindheimeri	Lindheimer's Stickleaf
Mentzelia mexicana	Mexican Blazingstar
Mentzelia multiflora	Adonis Blazingstar, Adonis Stickleaf, Desert Blazingstar
Mentzelia oligosperma	Chickenthiel
Mentzelia pachyrhiza	Coahuila Blazingstar
Mentzelia pumila	NA
Mentzelia texana	NA
Lythraceae	Lythraceae
Lythrum californicum	California Loosestrife
Nesaea longipes	Stalkflower Nesaea
Malpighiaceae	Malpighiaceae

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Janusia gracilis	Propellerbush, Slender Janusia
Malvaceae	Malvaceae
Abutilon fruticosum	Texas Indian Mallow
Abutilon malacum	Yellow Indian Mallow
Abutilon parvulum	Dwarf Indian Mallow
Abutilon wrightii	Wright Abutilon, Wright Indian Mallow
Allowissadula holosericea	Chisos Mountain False Indian Mallow
Batesimalva violacea	Purple Gaymallow
Herissantia crispa	Bladdermallow
Hibiscus coulteri	Desert Rosemallow
Hibiscus coulteri X H. denudatus	Hybrid
Hibiscus denudatus	Paleface Rosemallow
Hibiscus martianus	Heartleaf Rosemallow
Malva parviflora	Cheeseweed, Small-whorl Mallow
Malvella lepidota	Scurfy Mallow
Malvella leprosa	Alkali Mallow
Malvella sagittifolia	Arrowleaf Mallow
Rhynchosida physocalyx	Buffpetal
Sida abutifloia	Procumbent Sida, Prostrate Sida
Sida lindheimeri	NA
Sida longipes	Stalkflower Fanpetals
Sida neomexicana	New Mexico Sida
Sida tragiifolia	Catnip Noseburn, Earleaf Fanpetals, Tuberous Sida
Sphaeralcea angustifolia	Copper Globemallow, Narrowleaf Desertmallow
Sphaeralcea hastulata	Spear Globemallow, Spreading Globemallow
Sphaeralcea incana	Gray Globemallow, Soft Globemallow
Menispermaceae	Menispermaceae
Cocculus carolinus	Redberry Moonseed, Carolina Snailseed, Coralbead
Moraceae	Moraceae
Ficus carica	Common Fig, Higuera
Maclura pomifera	Osage Orange
Morus alba	White Mulberry
Morus celtidifolia	Mulberry
Morus microphylla	Texas Mulberry
Morus rubra	NA
Najadaceae	Najadaceae
Najas guadalupensis	NA
Nyctaginaceae	Nyctaginaceae
Abronia angustifolia	Purple Sand Verbena
Abronia fragrans	NA
Acleisanthes acutifolia	NA
Acleisanthes longiflora	Angel Trumpets
Allionia incarnata	Trailing Windmills, Trailing Four 'O Clock, Umbrellawort
Ammocodon chenopodioides	Goosefoot Moonpod
Anulocaulis eriosolenus	Big Bend Ringstem
Boerhavia anisophylla	Wineflower

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Boerhavia bracteosa	NA
Boerhavia coccinea	Scarlet Spiderling
Boerhavia diffusa	Red Spiderling
Boerhavia erecta	Erect Spiderling
Boerhavia gracillima	Slimstalk Spiderling
Boerhavia intermedia	Fivewing Spiderling, Jone's Boerhavia
Boerhavia linearifolia	Narrowleaf Spiderling
Boerhavia scandens	Climbing Spiderling, Wishbone Vine
Boerhavia spicata	Creeping Spiderling
Boerhavia wrightii	Largebract Spiderling, Wright's Boerhavia
Cyphomeris gypsophiloides	Red Cyphomeris
Mirabilis aggregata	Aggregated Four O'Clock
Mirabilis albida	White Four O'Clock, Mountain Four O'Clock
Mirabilis glabra	Smooth Four O'Clock
Mirabilis glabrifolia	NA
Mirabilis linearis	Linearleaf Four O'Clock, Narrowleaf Four O'Clock
Mirabilis oxybaphoides	Smooth Spreading Four O'Clock
Mirabilis texensis	Texas Four O'Clock
Nyctaginia capitata	Scarlet Musk-flower, Devil's Bouquet
Selinocarpus angustifolius	Narrowleaf Moonpod
Selinocarpus capitata	Littleleaf Moonpod
Selinocarpus parvifolius	Narrowleaf Foresteria, Texas Swampprivet
Oleaceae	Oleaceae
Forestiera angustifolia	Narrowleaf Foresteria, Texas Swampprivet
Forestiera pubescens	Desert Olive, Downy Forestiera, Elbowbush
Forestiera pubescens var. pubescens	New Mexico Forestiera
Forestiera reticulata	NA
Fraxinus berlandieriana	Mexican Ash
Fraxinus cuspidata	Fragrant Ash
Fraxinus greggii	Littleleaf Ash, Gregg's Ash
Fraxinus velutina	Velvet Ash
Menodora decemfida var. longifolia	Tenfinger Menodora
Menodora heterophylla	NA
Menodora longiflora	Showy Menodora
Menodora scabra	Rough Menodora
Onagraceae	Onagraceae
Calylophus hartwegii	Hartweg's Sundrops
Calylophus hartwegii ssp. hartwegii	Hartweg's Sundrops
Calylophus hartwegii ssp. pubescens	Hairy Calylophus
Calylophus tubicula	Texas Sundrops
Calylophus greggii	NA
Camissonia chamaenerioides	Long Capsule Suncup, Willowherb Suncup
Epilobium ciliatum	NA
Gaura boquillensis	Rio Grande Beeblossom, Boquillas Gaura
Gaura calicicola	Texas Beeblossom
Gaura coccinea	Scarlet Gaura

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Gaura macrocarpa	TransPecos Beeblossom
Gaura mollis	Velvetweed
Gaura suffulta	NA
Ludwigia peploides	Floating Primrose, Floating Primrosewillow
Ludwigia peploides ssp. glabrescens	Floating Primrose, Floating Primrosewillow
Ludwigia peploides ssp. peploides	Floating Primrose, Floating Primrosewillow
Oenothera albicaulis	NA
Oenothera brachycarpa	Shortfruit Evening Primrose
Oenothera kunthiana	Kunth's Eveningprimrose
Oenothera laciniata	Cutleaf Eveningprimrose
Oenothera primiveris	Desert Eveningprimrose
Oenothera rosea	Rose Eveningprimrose
Oenothera speciosa	NA
Oenothera triloba	Stemless Eveningprimrose
Orchidaceae	Orchidaceae
Deiregyne confusa	Confused Ladies Tresses
Dichromanthus cinnabarinus	Scarlet Ladies' Tresses
Epipactis gigantea	Giant Helleborine, Stream Orchid
Hexalectris grandiflora	Largeflower Crested Coralroot
Hexalectris nitida	Glass Mountain Crested Coralroot
Hexalectris revoluta	Chisos Mountain Crested Coralroot
Hexalectris spicata	Crested Coralroot
Hexalectris spicata var. arizonica	Spiked Crested Coralroot
Hexalectris spicata var. spicata	Spiked Crested Coralroot
Hexalectris warnockii	Warnock's Cockscomb, Texas Crested Coralroot
Malaxis ehrenbergii	NA
Malaxis soulei	NA
Malaxis wendtii	Wendt's Adder's-Mouth Orchid
Stenorrhynchos michuacanus	Michuacan Ladies'-Tresses
Orobanchaceae	Orobanchaceae
Conopholis alpina	Alpine Squawroot
Conopholis alpina var. mexicana	Mexican Squawroot
Orobanche cooperi	NA
Orobanche ludoviciana	Louisiana Broomrape
Orobanche ludoviciana ssp. ludoviciana	Louisiana Broomrape
Orobanche ludoviciana ssp. multiflora	Louisiana Broomrape, Manyflowered Broomrape
Orobanche multicaulis	Spiked Broomrape
Oxalidaceae	Oxalidaceae
Oxalis albicans ssp. albicans	Radishroot Woodsorrel
Oxalis drummondii	Chevron Sorrel, Drummond Woodsorrel
Oxalis stricta	Common Yellow Oxalis, Erect Woodsorrel, Sheep Sorrel
Oxalis violacea	NA
Papaveraceae	Papaveraceae
Argemone chisosensis	Chisos Mountain Pricklypoppy
Argemone mexicana	Mexican Pricklypoppy
Argemone polyanthemus	Annual Pricklypoppy, White Pricklypoppy

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Argemone sanguinea	Red Pricklypoppy, Spiny Pricklypoppy
Hunnemannia fumariifolia	Mexican Tulip Poppy
Passifloraceae	Passifloraceae
Passiflora tenuiloba	Birdwing Passionflower
Pedaliaceae	Pedaliaceae
Proboscidea louisianica ssp. fragrans	Aphid Trap, Devil's Claw, Ram's Horn, Unicornplant
Proboscidea parviflora	Red Devil's Claw, Doubleclaw
Phytolaccaceae	Phytolaccaceae
Rivina humilis	Pigeonberry, Redberry Rougeplant
Pinaceae	Pinaceae
Pinus arizonica	Arizona Pine
Pinus arizonica var. stormiae	Arizona Pine
Pinus cembriodes	Mexican Pinyon Pine
Pinus edulis	NA
Pinus nelsonii	NA
Pinus ponderosa	NA
Pinus remota	Papershell Pinyon
Pseudotsuga menziesii	Douglas-fir
Pseudotsuga menziesii var. glauca	Douglas-fir
Plantaginaceae	Plantaginaceae
Plantago helleri	Heller's Plantain
Plantago hookeriana	California Plantain
Plantago ovata	Desert Indianwheat
Plantago patagonica	Woolly Plantain, Woolly Indianwheat
Plantago rhodosperma	Redseed Plantain
Plantago virginica	NA
Plantago wrightiana	Wright's Plantain
Poaceae	Poaceae
Achnatherum curvifolium	Gradalupe Needlegrass, Gradalupe Ricegrass
Achnatherum eminens	Southwestern Needlegrass
Achnatherum lobatum	Littleawn Needlegrass
Agropyron inerme	NA
Agrostis exarata	Spike Bentgrass
Agrostis hyemalis	Winter Bentgrass
Agrostis scabra	NA
Agrostis stolonifera	Carpet Bentgrass, Creeping Bentgrass, Redtop Bent, Seaside Bentgrass, Spreading Bent
Allolepis texana	Texas Salt
Andropogon gerardii	Big Bluestem, Bluejoint Grass, Turkeyfoot
Andropogon glomeratus	Bushy Bluestem
Andropogon hallii	NA
Andropogon spadicus	NA
Aristida adscensionis	Six-Weeks Threeawn Grass
Aristida arizonica	Arizona Threeawn
Aristida divaricata	Poverty Threeawn
Aristida havardii	Havard Threeawn
Aristida longiseta	NA

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Aristida pansa	Wootton's Threeawn
Aristida purpurea	Purple Threeawn Grass
Aristida purpurea var. nealleyi	Blue Threeawn
Aristida purpurea var. pupurea	Purple Threeawn Grass
Aristida purpurea var. wrightii	Wright Threeawn Grass
Aristida scheideana	Single Threeawn
Aristida scheideana var. orcuttiana	Orcutt's Threeawn
Aristida ternipes	Spider Threeawn Grass
Aristida ternipes var. ternipes	Spider Threeawn Grass
Arundo donax	Giant Reed, River cane
Blepharidachne bigelovii	Bigelow's Desertgrass
Blepharoneuron tricholepis	Pine Dropseed
Bothriochloa barbinodis	Cane bluestem
Bothriochloa barbinodis var. barbinodis	Cane bluestem
Bothriochloa ischaemum	Turkestan Beardgrass, Yellow Bluestem
Bothriochloa laguroides	Silver Beardgrass
Bothriochloa laguroides ssp. torreyana	Silver Bluestem
Bothriochloa springfieldii	Springfield's Beardgrass
Bouteloua aristidoides	Needle Grama
Bouteloua barbata	Sixweeks Grama
Bouteloua breviseta	Chino Grama, Gypsum Grama
Bouteloua chondrosioides	Sprucetop Grama
Bouteloua curtipendula	Sideoats Grama
Bouteloua curtipendula var. caespitosa	Sideoats Grama
Bouteloua curtipendula var. curtipendula	Sideoats Grama
Bouteloua eriopoda	Black Grama
Bouteloua gracilis	Blue Grama
Bouteloua hirsuta	Hairy Grama
Bouteloua kayi	Kay's Grama
Bouteloua ramosa	Chino Grama
Bouteloua simplex	Mat Grama
Bouteloua trifida	Red Grama
Bouteloua uniflora	Neally Grama, Oneflower Grama
Bromus anomalus	Nodding Brome
Bromus arizonicus	Arizona Brome
Bromus carinatus	California Brome, Mountain Brome
Bromus catharticus	Rescue Brome
Bromus lanatipes	Woolly Brome
Bromus polyanthus	Great Basin Brome
Bromus tectorum var. glabratus	Cheatgrass
Cathetecum erectum	False Grama
Cenchrus ciliaris	Buffelgrass
Cenchrus incertus	Grassbur, Coast sandbur
Cenchrus myosuroides	Big Sandbur
Cenchrus spinifex	Coastal Sandbur
Chloris andropogonoides	NA

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Chloris crinita	False Rhodesgrass, Twoflower Crinita
Chloris latisquamea	NA
Chloris virgata	Feather Fingergrass, Feather Windmillgrass, Showy Chloris
Cottea pappophoroides	Cotta Grass
Cynodon dactylon	Bermudagrass
Dasyochloa pulchella	Fluffgrass
Dichanthelium acuminatum	Hotsprings Panicum, Tapered Rosette Grass
Dichanthelium acuminatum var. lindheimeri	Lindheimer Panicgrass
Digitaria californica	Arizona Cottontop
Digitaria ciliaris	Fingergrass, Henry's Crabgrass, Smooth Crabgrass, Southern Crabgrass
Digitaria cognata	Fall Witchgrass, Carolina Cottontop, Carolina Crabgrass
Digitaria cognata var. cognata	Fall Witchgrass
Digitaria cognata var. pubiflora	Carolina Crabgrass
Digitaria sanguinalis	Hairy Crabgrass, Purple Crabgrass
Distichlis spicata	Desert Saltgrass, Inland Saltgrass, Marsh Spikegrass, Seashore Saltgrass
Echinochloa colona	Jungle rice
Echinochloa crus-galli	Barnyard Grass, Cockspur, Japanese Millet, Watergrass
Echinochloa crusgalli var. zelayensis	NA
Echinochloa cruspavonis var. macera	NA
Echinochloa muricata	Rough Barnyard Grass
Elionurus barbiculmis	Woolspike Balsamscale, WoollySpike Bunchgrass
Elymus arizonicus	Arizona Wheatgrass
Elymus canadensis	Canada Wildrye
Elymus elymoides	Squirreltail, Bottlebrush
Elymus trachycaulus	Slender Wheatgrass, Slender Wildrye
Elyonurus barbiculmis	NA
Enneapogon desvauxii	Feather Pappusgrass, Nineawn Pappusgrass, Spike Pappusgrass
Eragrostis barrelieri	Mediterranean Lovegrass
Eragrostis cilianensis	Candy Grass, Lovegrass, Stinkgrass
Eragrostis erosa	NA
Eragrostis intermedia	Plains Lovegrass
Eragrostis lehmanniana	Lehmann Lovegrass
Eragrostis lugens	NA
Eragrostis mexicana	Mexican Lovegrass
Eragrostis pectinacea	Spreading Lovegrass, Purple Lovegrass
Eragrostis pectinacea var. pectinacea	Spreading Lovegrass, Purple Lovegrass
Erioneuron avenaceum	Shortleaf Woollygrass
Erioneuron nealleyi	Nealley's Woollygrass
Erioneuron pilosum	Hairy Tridens, Hairy Wollygrass
Erioneuron pulchellum	NA
Festuca arizonica	Arizona Fescue
Festuca ligulata	Guadalupe Fescue
Hemarthria altissima	African Jointgrass
Hesperostipa neomexicana	New Mexican Feathergrass
Heteropogon contortus	Tanglehead

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Hilaria mutica	Tobosa
Imperata brevifolia	California Satintail
Koeleria macrantha	Junegrass
Leptochloa dubia	Green Sprangletop
Leptochloa fusca ssp. fascicularis	Bearded Sprangletop
Leptochloa fusca ssp. uninervia	Mexican Sprangletop
Leptochloa panicea ssp. brachiata	Red Sprangletop
Leptochloa panicea ssp. mucronata	Mucronate Sprangletop
Lolium perenne	Italian Ryegrass, Perennial Ryegrass
Lycurus phleoides	Common Wolfstail
Lycurus setosus	Bristly Wolfstail
Melica montezumae	Montexuma Melicgrass
Muhlenbergia arenacea	Ear Muhly, Eared Muhly
Muhlenbergia arenicola	Sand Muhly
Muhlenbergia depauperata	Sixweeks Muhly
Muhlenbergia dubia	Cane Muhly, Pine Muhly
Muhlenbergia eludens	Gravelbar Muhly, Little Muhly
Muhlenbergia emersleyi	Bullgrass, Bully Muhly
Muhlenbergia glauca	Desert Muhly
Muhlenbergia minutissima	Annual Muhly
Muhlenbergia montana	Mountain Muhly
Muhlenbergia parviglumis	Longawn Muhly
Muhlenbergia pauciflora	New Mexico Muhly
Muhlenbergia polycaulis	Cliff Muhly
Muhlenbergia porteri	Bush Muhly
Muhlenbergia repens	Creeping Muhly, Red Muhly
Muhlenbergia rigens	Deer Muhly, Deergrass
Muhlenbergia rigida	Purple Muhly
Muhlenbergia setifolia	Curlyleaf Muhly
Muhlenbergia tenuifolia	Mesa Muhly, Slimflower Muhly
Muhlenbergia utilis	Aparejo Muhly
Nassella tenuissima	Finestem Tussockgrass
Opismenus hirtellus	NA
Panicum antidotale	Blue Panicgrass
Panicum arizonicum	Arizona Panicgrass
Panicum bulbosum	Bulb Panicgrass
Panicum capillare	Annual Witchgrass, Common Panic Grass, Tumble Panic Grass
Panicum ghiesbreghtii	Gheisbreght Panicgrass
Panicum hallii	Hall Panicgrass
Panicum hirticaule	Mexican Panicgrass, Roughstalk Witchgrass
Panicum lanuginosum	Woolly Panicgrass
Panicum obtusum	Vine Mesquite
Panicum oligosanthos	NA
Pappophorum bicolor	Pink Pappusgrass
Pappophorum vaginatum	Pima Pappusgrass, Whiplash Pappusgrass
Pascopyrum smithii	Western Wheatgrass

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Paspalum dilatatum	Dallas Grass, Dallis Grass, Water Grass
Paspalum pubiflorum	Hairyseed Paspalum
Pennisetum ciliare	Buffelgrass
Phragmites australis	Common Reed
Piptochaetium fimbriatum	Pinyon Ricegrass
Pleuraphis mutica	Tobosa Grass
Poa bigeovii	Bigelow Bluegrass
Poa fendleriana	Mutton Grass
Poa strictiramea	Chisos Bluegrass, Big Bend Bluegrass
Polypogon monspeliensis	Rabbitsfoot Beardgrass
Polypogon viridis	Water Bentgrass, Beardless Rabbitsfoot Grass
Schizachyrium cirratum	Texas Bluestem
Schizachyrium sanguineum	Crimson Bluestem
Schizachyrium sanguineum var. hirtiflorum	Crimson Bluestem
Schizachyrium scoparium	Litte Bluestem
Schizachyrium scoparium var. scoparium	Little Bluestem
Scleropogon brevifolius	Burro Grass
Setaria adhaerens	NA
Setaria grisebachii	Grisebach Bristlegrass
Setaria italica	Foxtail Bristlegrass, Foxtail Millet, Italian Foxtail
Setaria leucopila	Plains Bristlegrass
Setaria macrostachya	NA
Setaria parviflora	Marsh Bristlegrass, Yellow Bristlegrass
Setaria ramiseta	Bristle panicum, Rio Grande Bristlegrass
Setaria reverchonii	Reverchon Bristlegrass
Setaria scheelei	Southwestern Bristlegrass
Setaria viridis	Bottlegrass, Green Bristlegrass, Milletgrass
Sitanion longifolium	NA
Sorghastrum nutans	Indiangrass
Sorghum bicolor	Broomcorn, Shattercane, Wild Cane
Sorghum halepense	Johnsongrass
Sphenopholis obtusata	Prarie Wedgescale
Sporobolus airoides	Alkali Sacaton
Sporobolus contractus	Spike Dropseed
Sporobolus cryptandrus	Sand Dropseed
Sporobolus flexuosus	Mesa Dropseed
Sporobolus pyramidatus	Pyramid Dropseed
Sporobolus wrightii	Giant Sacaton
Stipa pringlei	NA
Tragus berteronianus	Spiked Burrgrass
Trichachne hitchcockii	NA
Trichachne insularis	NA
Trichloris pluriflora	NA
Tridens albescens	White Tridens
Tridens eragrostoides	Lovegrass Tridens
Tridens muticus	Slim Tridens

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Tridens muticus var. muticus	Slim Tridens
Tripsacum dactyloides	Eastern Gamagrass
Urochloa arizonica	Arizona Signalgrass
Urochloa fasciculata	Browntop Signalgrass
Vulpia octoflora	Eight-Flower Six-Weeks Grass, Sixweeks Fescue, Pullout Grass
Polemoniaceae	Polemoniaceae
Gilia incisa	Splitleaf Gilia
Gilia insignis	Marked Gilia
Gilia rigidula ssp. acerosa	Bluebowls
Gilia rigidula ssp. rigidula	Bluebowls
Gilia stewartii	Stewart Gilia
Ipomopsis aggregata	Desert Trumpet, Scarlet Gilia, Skyrocket Gilia
Ipomopsis arizonica	Arizona Ipomopsis, Arizona Skyrocket
Ipomopsis havardii	Havard Ipomopsis, Havard Skyrocket
Ipomopsis laxiflora	Iron Ipomopsis, Iron Skyrocket
Ipomopsis longiflora	Flaxflowered Gilia, Whiteflower Skyrocket
Ipomopsis pumila	NA
Ipomopsis longiflora var. neomexicana	NA
Loeselia greggii	Chisos Mountain False Calico
Loeselia mexicana	NA
Phlox mesoleuca	Threadleaf Phlox
Phlox nana	Santa Fe Phlox
Phlox triovulata	NA
Polygalaceae	Polygalaceae
Polygala alba	White Milkwort
Polygala barbeyana	Blue Milkwort
Polygala lindheimeri	Shrubby Milkwort
Polygala lindheimeri var. lindheimeri	Shrubby Milkwort
Polygala lindheimeri var. parvifolia	Shrubby Milkwort
Polygala macradenia	Gandleaf Milkwort, Purple Milkwort
Polygala maravillasensis	Maravillas Milkwort
Polygala nudata	Smallflower Milkwort
Polygala obscura	Velvetseed Milkwort
Polygala scoparioides	Broom Milkwort
Polygonaceae	Polygonaceae
Eriogonum abertianum	Abert Buckwheat
Eriogonum havardii	Havard's Buckwheat
Eriogonum hemipterum	Chisos Mountain Buckwheat
Eriogonum hieracifolium	NA
Eriogonum jamesii	Antelope Sage, James Buckwheat
Eriogonum jamesii var. undulatum	Antelope Sage, James Buckwheat
Eriogonum lachnogynum	NA
Eriogonum polycladon	Sorrel Buckwheat
Eriogonum rotundifolium	Roundleaf Buckwheat
Eriogonum tenellum	Matted Buckwheat
Eriogonum tenellum var. platyphullum	Tall Buckwheat

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Eriogonum tenellum var. tenellum	Tall Buckwheat
Eriogonum wrightii	Bastardsage, Shrubby Buckwheat
Eriogonum wrightii var. wrightii	Bastardsage, Shrubby Buckwheat
Polygonum convolvulus	Black Bindweed, Climbing Buckwheat, Dullseed Cornbind, Pink Smartweed
Polygonum hydropiperoides	Swamp Smartweed
Polygonum lapathifolium	Curltop Ladysthumb, Curlytop Knotweed, Dockleaf Smartweed, Pale Smartweed
Polygonum pennsylvanicum	Pennsylvania Knotweed, Smartweed
Polygonum persicaria	Ladysthumb Smartweed, Spotted Knotweed, Spotted Smartweed
Rumex altissimus	Pale Dock, Smooth Dock
Rumex chrysocarpus	NA
Rumex crispus	Curly Dock, Yellow Dock
Rumex maritimus	Bristle Dock, Golden Dock
Rumex salicifolius var. mexicanus	Mexican Dock, Trianglevalve Dock
Rumex violascens	Violet Dock
Polypodiaceae	Polypodiaceae
Pleopeltis polylepsis var. erythrolepis	NA
Pleopeltis riograndensis	Rio Grande Scaly Polypody
Pleopeltis thyssanolepis	Arizona Scaly Polypody
Portulacaceae	Portulacaceae
Portulaca oleracea	Common Purslane, Duckweed, Little Hogweed
Portulaca pilosa	Chisme, Kiss Me Quick
Portulaca suffrutescens	Common Purslane, Duckweed, Little Hogweed
Talinopsis frutescens	Arroyo Flameflower
Talinum aurantiacum	Orange Flameflower
Talinum brevicale	Dwarf Flameflower
Talinum longipes	Pink Flameflower
Talinum paniculatum	Big Talinum, Jewels of Opar
Talinum parviflorum	Prairie Flameflower, Sunbright
Talinum pulchellum	NA
Potamogetonaceae	Potamogetonaceae
Potamogeton clystocarpus	NA
Potamogeton diversifolius	Waterthread Pondweed
Stuckenia pectinata	Sago Pondweed
Primulaceae	Primulaceae
Anagallis arvensis	Scarlet Pimpernel
Androsace occidentalis	Western Rock Jasmine
Samolus ebracteatus	Bractless Brookweed, Limewater Brookweed
Samolus ebracteatus ssp. cuneatus	Limewater Brookweed
Samolus valerandi ssp. parviflorus	Seaside Brookweed, Smallflower Water Pimpernel
Pteridaceae	Pteridaceae
Adiantum capillus-veneris	Common Maidenhair Fern
Argyrochosma limitanea	Southwestern False Cloakfern
Argyrochosma limitanea ssp. mexicana	Southwestern False Cloakfern
Argyrochosma microphylla	Cloakfern genus
Astrolepis cochisensis	Cochise Scaly Cloakfern
Astrolepis integerrima	Hybrid Cloakfern, Hybrid Lipfern

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Astrolepis sinuata	Wavy Scaly Cloakfern
Astrolepis sinuata ssp. sinuata	Wavy Scaly Cloakfern
Astrolepis windhamii	Windham's Scaly Cloakfern
Bommeria hispida	Copper Fern
Cheilanthes alabamensis	Alabama Lipfern
Cheilanthes bonariensis	Golden Lipfern
Cheilanthes cochisensis	NA
Cheilanthes eatonii	Eaton Lipfern
Cheilanthes feei	Fee Lipfern
Cheilanthes horridula	Rough Lipfern
Cheilanthes integerrima	NA
Cheilanthes kaulfussii	Kalfuss Lipfern
Cheilanthes lendigera	Nitbearing Lipfern
Cheilanthes lindheimeri	Fairy Swords, Lindheimer Lipfern
Cheilanthes tomentosa	Woolly Lipfern
Cheilanthes villosa	Villous Lipfern
Cheilanthes wrightii	Wright Lipfern
Notholaena aliena	NA
Notholaena candida var. copelandii	NA
Notholaena grayi	Gray's Cloakfern
Notholaena greggii	Gregg Cloakfern
Notholaena nealleyi	Nealley's Cloakfern
Notholaena neglecta	Maxon's Cloakfern
Notholaena parvifolia	NA
Notholaena standleyi	Star Cloakfern
Pellaea atropurpurea	Purple Cliffbreak
Pellaea cordifolia	Heartleaf Cliffbreak
Pellaea intermedia	Intermediate Cliffbreak
Pellaea ovata	Ovateleaf Cliffbreak
Pellaea ternifolia	Trans Pecos Cliffbreak
Pellaea ternifolia ssp. arizonica X P. wrightiana	Hybrid
Pellaea ternifolia ssp. ternifolia	TransPecos Cliffbreak
Pellaea wrightiana	Wright Cliffbreak
Pteridium aquilinum var. pubscens	NA
Rafflesiaceae	Rafflesiaceae
Pilostyles thurberi	Thurber's Stemsucker
Ranunculaceae	Ranunculaceae
Anemone heterophylla	NA
Anemone tuberosa var. texana	Tuber Anemone
Aquilegia longissima	Longspur Columbine
Clematis drummondii	Texas Virgin's Bower, Drummond Clematis, Old Man's Beard
Clematis pitcheri	Bluebill, Pitcher Clematis
Clematis pitcheri var. dictoya	Bluebill, Pitcher Clematis
Clematis pitcheri var. pitcheri	Bluebill Pitcher's Clematis
Delphinium corolinianum	Blue Larkspur, Carolina Larkspur
Delphinium wootonii	Organ Mountain Larkspur

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Myosurus minimus	Tiny Mousetail
Ranunculus sceleratus	Celeryleaf Buttercup, Cursed Buttercup
Resedaceae	Resedaceae
Oligomeris linifolia	Linearleaf Combess, Lineleaf Whitepuff, Oligomeris
Rhamnaceae	Rhamnaceae
Adolphia infesta	Texas Adolphia
Ceanothus fendleri	Fendler's Ceanothus
Ceanothus greggii	Desert Ceanothus
Colubrina texensis	NA
Condalia ericoides	Javalina Bush
Condalia viridis	Green Condalia, Green Snakewood
Condalia warnockii	Squawbush, Warnock Snakewood
Frangula betulifolia	Beechleaf Buckthorn, Birchleaf Frangula
Karwinskia humboldtiana	Coyotillo
Rhamnus serrata	Sawleaf Buckthorn
Ziziphus obtusifolia	Lotebush, Graythorn
Ziziphus obtusifolia var. obtusifolia	Lotebush, Graythorn
Rosaceae	Rosaceae
Cercocarpus glaberrimus	NA
Cercocarpus glaberrimus var. glaber	NA
Cercocarpus montanus	Mountain Mahogany
Cercocarpus montanus var. glaber	Birchleaf Mountain Mahogany
Cercocarpus montanus var. paucidentatus	Hairy Mountain Mahogany
Fallugia paradoxa	Apacheplume
Holodiscus discolor	Creambush Oceanspray
Holodiscus dumosus	Bush Oceanspray, Bush Rockspires
Malacomeles denticulata	Big Bend Serviceberry
Petrophyton caespitosum	Mat Rockspirea, Tufted Rockmat
Prunus havardii	Havard Plum
Prunus minutiflora	NA
Prunus persica var. persica	Peach
Prunus serotina	Black Cherry
Prunus serotina var. virens	Black Cherry
Purshia ericifolia	Heath Cliffrose
Rubus persistens	Persistent Blackberry
Rubus trivialis	NA
Vauquelinia corymbosa	Slimleaf Rosewood
Vauquelinia corymbosa ssp. angustifolia	Slimleaf Rosewood
Rubiaceae	Rubiaceae
Bouvardia ternifolia	Scarlet Bouvardia, Firecracker Bush
Cephalanthus occidentalis	Buttonbush
Cephalanthus salicifolius	NA
Galium aparine	NA
Galium mexicanum ssp. flexicum	Mexican Bedstraw
Galium mexicanum var. asperulum	NA
Galium microphyllum	Bracted Bedstraw

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Galium proliferum	Limestone Bedstraw
Galium texense	NA
Galium uncinatum	Bristly Bedstraw
Galium virgatum	Southwestern Bedstraw
Galium wrightii	Slenderbranch Bedstraw, Wright Bedstraw
Hedyotis acerosa	NA
Hedyotis butterwickiae	Butterwick's Starviolet
Hedyotis intricata	Cluster Bluet, Tangled Starviolet
Hedyotis mullerae	NA
Hedyotis nigricans var. nigricans	Diamond Flowers, Prairie Bluets
Hedyotis pooleana	Poole's Starviolet, Jackie's Bluet
Houstonia acerosa	Needleleaf Bluet
Rutaceae	Rutaceae
Ptelea trifoliata	Hoptree, Skunkbush
Ptelea trifoliata var. angustifolia	Common Hoptree
Thamnosma texana	Texas Desertrue, Dutchman's Britches
Thamnosma texanum var. purpureum	NA
Salicaceae	Salicaceae
Populus angustifolia	Narrowleaf Cottonwood
Populus deltoides	Common Cottonwood, Eastern Cottonwood, Plains Cottonwood
Populus deltoides ssp. wislizeni	Rio Grande Cottonwood
Populus fremontii	Fremont Cottonwood
Populus fremontii ssp. fremontii	Fremont Cottonwood
Populus fremontii ssp. mesetae	Fremont Cottonwood, Arizona Cottonwood
Populus tremuloides	Quaking Aspen
Populus X acuminata	Lanceleaf Cottonwood
Salix exigua	Coyote Willow, Sandbar Willow
Salix exilifolia	NA
Salix gooddingii	Goodding Black Willow
Salix interior	Sandbar Willow
Salix lasiolepis	Arroyo Willow
Salix nigra	Black Willow
Salix taxifolia	Yewleaf Willow
Sapindaceae	Sapindaceae
Sapindus saponaria	Western Soapberry, Wingleaf Soapberry
Sapindus saponaria var. drummondii	Western Soapberry
Ungradia speciosa	Mexican Buckeye
Sapotaceae	Sapotaceae
Sideroxylon lanuginosum ssp. rigidum	Gum Bully
Saxifragaceae	Saxifragaceae
Heuchera rubescens	Pink Alumroot, Jack of the Rocks
Scrophulariaceae	Scrophulariaceae
Bacopa monnieri	Coastal Waterhyssop, Herb of Grace
Castilleja elongata	NA
Castilleja integra	Wholeleaf Indian Paintbrush, Squawfeather
Castilleja integra var. integra	Wholeleaf India Paintbrush

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Castilleja lanata	Sierra Woolly Indian Paintbrush
Castilleja rigida	Rigid Indian Paintbrush
Castilleja sessiliflora	Downy Paintedcup, Grac Plains Indian Paintbrush
Chilopsis linearis	Desertwillow
Collinsia violacea	NA
Leucophyllum candidum	Boquillas Silverleaf
Leucophyllum frutescens	Ceniza, Purple Sage
Leucophyllum minus	Big Bend Silverleaf
Linaria texana	NA
Maurandella antirrhiniflora	Climbing Snapdragon, Roving Sailor
Maurandya wislizenii	Balloonbush
Mecardonia procumbens	Baby Jumpup
Mecardonia vandelliioides	NA
Mimulus glabratus	Roundleaf Monkeyflower, Smooth Monkeyflower
Mimulus guttatus	Common Monkeyflower, Seep Monkeyflower
Nuttallanthus texanus	Texas Toadflax
Penstemon baccharifolius	Baccharisleaf Beardtongue
Penstemon barbatus	Beardlip Penstemon
Penstemon barbatus ssp. torreyi	Torrey Penstemon
Penstemon dasyphyllus	Purple Penstemon, Cochise Beardtongue
Penstemon fendleri	Fendler Penstemon, Fendler Beardtongue
Penstemon havardii	Big Bend Beardtongue
Penstemon ramosus	Lanceleaf Beardtongue, Lanceleaf Penstemon
Penstemon superbus	NA
Penstemon wrightii	Wright's Beardtongue
Seymeria falcata var. falcata	Blacksenna
Seymeria scabra	Limpia Blacksenna
Veronica peregrina	Neckweed, Purselane Speedwell
Selaginellaceae	Selaginellaceae
Selaginella arizonica	Arizona Clubmoss, Arizona Spikemoss
Selaginella densa var. scopulorum	NA
Selaginella densa var. scopulorum	Rocky Mountain Clubmoss, Rocky Mountain Spikemoss
Selaginella lepidophylla	Resurrection Fern, Flower of Stone
Selaginella mutica	Bluntleaf Spikemoss
Selaginella mutica var. limitanea	Bluntleaf Spikemoss
Selaginella peruviana	Peruvian Spikemoss
Selaginella pilifera	Resurrection Plant
Selaginella rupicola	Rockloving Spikemoss
Selaginella underwoodii	Underwood Spikemoss
Selaginella viridissima	Green Spikemoss
Selaginella wrightii	Wright's Spikemoss
Selaginella X neomexicana	New Mexican Spikemoss, New Mexico Selaginella
Simaroubaceae	Simaroubaceae
Castela erecta ssp. texana	Allthorn Goatbush, Texan Goatbush
Holacantha stewartii	Crucifixion Thorn
Solanaceae	Solanaceae

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Calibrachoa parviflora	Seaside Petunia
Chamaesaracha coniodes	Gray False Nightshade, Gray Five-eyes
Chamaesaracha coronopus	Green False Nightshade, Greenleaf Five-Eyes
Chamaesaracha crenata	NA
Chamaesaracha pallida	Pale Five Eyes
Chamaesaracha sordida	Hairy Five Eyes
Chamaesaracha villosa	TransPecos Five Eyes
Datura innoxia	Angel's Trumpet, Desert Thornapple, Sacred Datura
Datura quercifolia	Chinese Thornapple
Datura wrightii	Sacred Datura, Sacred Thornapple
Lycium berlandieri	Berlandieri Wolfberry
Lycium berlandieri var. parviflorum	Small Berlandieri Wolfberry
Lycium pallidum	Pale Wolfberry
Lycium puberulum var. berberioides	Down Desertthorn
Lycium torreyi	Squawthorn, Torrey Wolfberry
Margaranthus solanaceus	Netted Globecherry
Nectouxia formosa	Trans Pecos Stinkleaf
Nicotiana glauca	Tree Tobacco
Nicotiana obtusifolia var. obtusifolia	Desert Tobacco
Nicotiana repanda	NA
Physalis cinerascens	Smallflower Groundcherry
Physalis cinerascens var. cinerascens	Smallflower Groundcherry
Physalis hederifolia	Ivyleaf Groundcherry
Physalis hederifolia var. comata	Ivyleaf Groundcherry
Physalis hederifolia var. fendleri	Fendler Groundcherry
Physalis hederifolia var. hederifolia	Ivyleaf Groundcherry
Physalis philadelphica	Mexican Groundcherry
Physalis philadelphica var. immaculata	Tomatillo, Mexican Groundcherry
Quincula lobata	Purple Ground Cherry
Solanum americanum	American Nightshade, Purple Nightshade
Solanum citrullifolium	NA
Solanum davisense	Davis Horsenettle
Solanum douglasii	Green Spot Nightshade
Solanum elaeagnifolium	Silverleaf Nightshade
Solanum fendleri	NA
Solanum ptychanthum	American Nightshade, Purple Nightshade
Solanum rostratum	Buffalobur Nightshade, Mexican Thistle, Texas Thistle
Solanum sarrachoides	NA
Solanum sisymbriifolium	NA
Solanum triquetrum	Texas Nightshade
Solanum villosum	Hairy Nightshade
Solanum stoloniferum	NA
Sterculiaceae	Sterculiaceae
Ayenia filiformis	Trans Pecos Ayenia
Ayenia microphylla	Dense Ayenia, Shrubby Ayenia
Ayenia pilosa	Hairy Ayenia

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Tamaricaceae	Tamaricaceae
Tamarix aphylla	Tamarisk, Saltcedar, Athel Tamarisk
Tamarix chinensis	Chinese Saltcedar, Fivestamen Tamarisk, Tamarix
Tamarix gallica	Tamarisk, Saltcedar
Tamarix ramosissima	Saltcedar, Tamarisk
Thelypteridaceae	Thelypteridaceae
Thelypteris ovata var. lindheimeri	Lindheimer Marsh Fern
Typhaceae	Typhaceae
Typha angustifolia	Southern Cattail
Typha domingensis	Southern Cattail
Typha latifolia	Broadleaf Cattail
Ulmaceae	Ulmaceae
Celtis laevigata var. reticulata	Netleaf Hackberry
Celtis pallida	Spiny Hackberry
Ulmus pumila	Chinese Elm, Siberian Elm
Urticaceae	Urticaceae
Parietaria pensylvanica	Pennsylvania Pellitory
Verbenaceae	Verbenaceae
Aloysia gratissima	Whitebrush, Beebrush
Aloysia gratissima var. gratissima	Whitebrush
Aloysia wrightii	Wright Beebrush, Lemon Verbena
Bouchea linifolia	Groovestem Bouchea
Bouchea spathulata	Spoonleaf
Glandularia bipinnatifida var. bipinnatifida	Dakota Mock Vervain
Glandularia pumila	Pink Mock Vervain
Glandularia quadrangulata	Beaked Mock Vervain
Glandularia racemosa	Pale Mock Vervain
Glandularia verecunda	Chihuahuan Mock Vervain
Glandularia wrightii	Davis Mountain Mock Vervain
Lantana achyranthifolia	Brushland Shrubverbena, Veinleaf Lantana
Lippia graveolens	Scented Lippia, Mexican Oregano
Phyla nodiflora	Sawtooth Frogfruit, Turkey Tangle
Tetradlea coulteri	Coulter Wrinklefruit
Verbena brasiliensis	Brazilian Vervain
Verbena canescens	Gray Vervain
Verbena halei	Texas Verbena
Verbena neomexicana	Hillside Vervain, New Mexico Verbena
Verbena neomexicana var. hirtella	Hillside Vervain, New Mexico Verbena
Verbena perennis	Perennial Verbena, Pinleaf Vervain
Verbena plicata	NA
Verbena quadrangulata	NA
Verbena scabra	Sandpaper Vervain
Verbena livermorensis	NA
Violaceae	Violaceae
Hybanthus verticillatus	Baby Slippers, Whorled Nodding Violet
Viscaceae	Viscaceae

Plant Species List for BIBE/RIGR	
Scientific Name	Common Name
Phoradendron bolleanum	Bollean Mistletoe
Phoradendron coryae	Cory Mistletoe
Phoradendron hawksworthii	Rough Mistletoe, Hawksworth Mistletoe
Phoradendron juniperinum	Juniper Mistletoe
Phoradendron macrophyllum	Colorado Desert Mistletoe
Phoradendron tomentosum	Christmas Mistletoe
Phoradendron villosum	Pacific Mistletoe
Vitaceae	Vitaceae
Cissus trifoliata	Sorrelvine
Vitis arizonica	Canyon Grape
Vitis palmata	NA
Vitis rupestris	Sand Grape
Zygophyllaceae	Zygophyllaceae
Guaiacum angustifolium	Guayacan
Kallstroemia californica	NA
Kallstroemia grandiflora	Arizona Poppy, Orange Caltrop
Kallstroemia hirsutissima	Hairy Caltrop, Carpetweed
Kallstroemia parviflora	Warty Caltrop
Larrea tridentata	Creosotebush
Larrea tridentata var. tridentata	Creosotebush
Tribulus terrestris	Bullhead Caltrop, Puncturevine, Texas Sandbur

The Department of the Interior protects and manages the nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its special responsibilities to American Indians, Alaska Natives, and affiliated Island Communities.

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