



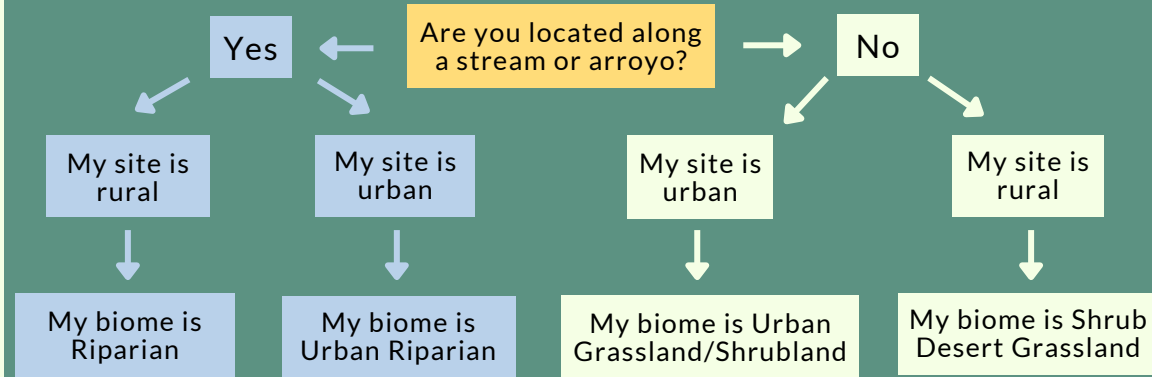
# GREEN STORMWATER INFRASTRUCTURE (GSI) PLANT LIST

Use these 3 simple steps to identify the major site characteristics that influence plant selection in a GSI feature.

Then apply this information to find a range of plants that are suited for your site in the Bernalillo County Green Stormwater Infrastructure (GSI) Plant List ([bernco.gov/plantlist](http://bernco.gov/plantlist)).

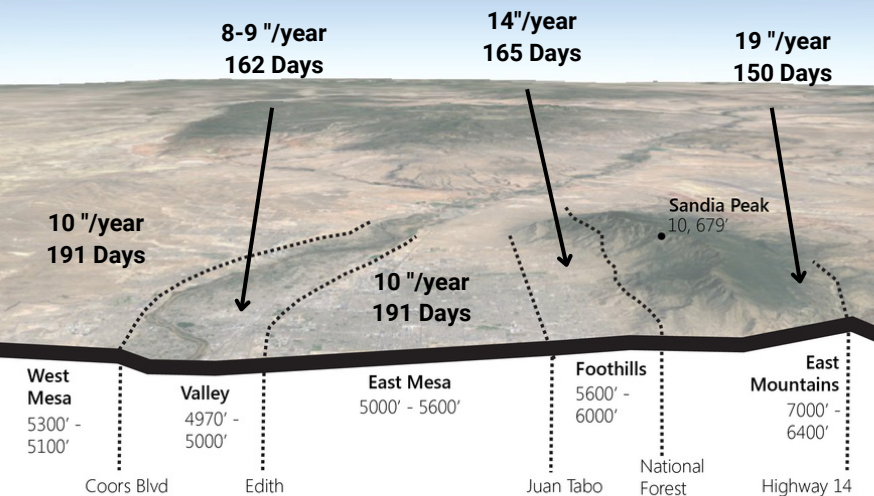
## 1 What is your Biome?

Think of a biome as a grouping of plants that naturally occur together. Choosing plants from your biome means the plants will grow well in your soil type and complement each other. Use this flowchart to identify the biome for your site.



## 2 What is your elevation?

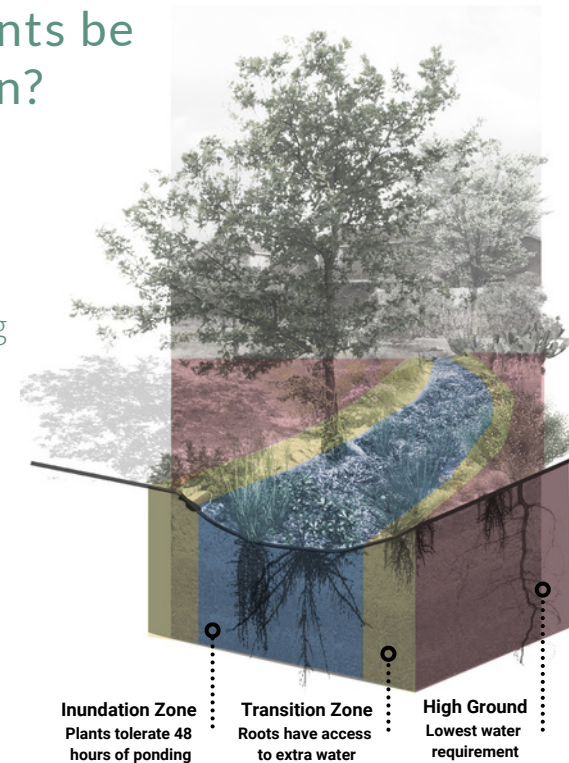
Growing conditions vary based on elevation, which influences temperature and length of growing season. Note your elevation zone along this transect of the Middle Rio Grande Valley.



## 3 Where will the plants be located in the basin?

The GSI Plant List identifies species that will thrive in different infiltration zones in your GSI feature.

- Some plants can tolerate standing water - they belong in the **Inundation Zone** at the bottom of the basin.
- Moving up the slope, the **Transition Zone** will have less available water.
- Plant your most drought-tolerant species on the **High Ground**.



# TREES

Botanical Name	Common Name	Mature Size (Height x Spread)	Biome				Elevation and Infiltration Zone (I = inundation, T = transition, H= high ground)					Evergreen/ Semi-	Notes
			Urban Ephemeral Riparian	Urban Grassland/ Shrubland	Shrub Desert Grassland	Riparian	West Mesa	Valley	East Mesa	Foothills	E. Mntn		
<i>Acacia syn Senegalia greggii*</i>	Catclaw acacia	10' x 15'	X	X	X	X	I, T	I, T	I, T	-	-		Fast grower, good barrier plant, marginally cold hardy
<i>Celtis laevigata'-reticulata</i>	Netleaf hackberry	25' x 25'	X	X	X	X	I, T	I, T	I, T	I, T,H	I, T,H		Small red fruits in fall
<i>Cercis mexicana</i>	Mexican redbud	20' x 15'	X	X		X	-	I, T	-	-	-		May be difficult to transplant.
<i>Chilopsis linearis</i>	Desert willow	20' x 25'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	-		Blooms summer and fall
<i>Crataegus ambigua</i>	Russian hawthorn	15' x 20'	X			X	-	-	-	-	I		May require supplemental water
<i>Juniperus chinensis 'Keteleeri'*</i>	Keteleeri juniper	15' x 10'	X	X	X		T	T,H	T	T,H	T,H	E	A more heat-tolerant Juniper
<i>Juniperus monosperma*</i>	One-seed juniper	15' x 20'		X	X		T,H	T,H	T,H	T,H	T,H	E	Only plant female of species
<i>Koelreuteria paniculata</i>	Golden rain tree	20' x 20'	X				-	I,T	I	I,T	I,T		Attracts box elder bugs
<i>Maclura pomifera</i>	Osage orange	25' x 25'	X	X	X	X	-	I,T	I,T	I,T	I,T		Orange-size green fruits on female trees
<i>Pinus eldarica*</i>	Afghan pine	40' x 20'	X	X	X		T	T	T	T	-	E	Protect from inundation
<i>Pinus pinea*</i>	Italian stone pine	60' x 50'	X	X			T	T	T	-	-	E	Protect from inundation
<i>Pistacia chinensis</i>	Chinese pistache	40' x 20'	X				I	I	I	I,T	I,T		
<i>Platanus mexicana</i>	Mexican sycamore	50' x 30'				X	-	I	-	I	-		Included on this list on a trial basis
<i>Platanus wrightii</i>	Arizona sycamore	60' x 70'				X	-	I	-	I	I		Requires plentiful and consistent runoff
<i>Populus deltoides var. wislizenii*</i>	Rio Grande cottonwood	50' x 60'				X	-	I	-	-	I,T		Premier wildlife habitat
<i>Prosopis glandulosa</i>	Honey mesquite	25' x 30'	X	X	X	X	I,T,H	I,T,H	I,T,H	-	-		Yellow flowers in summer
<i>Prosopis pubescens</i>	Screwbean mesquite	20' x 20'	X	X	X	X	I,T,H	I,T,H	I,T,H	-	-		
<i>Quercus arizonica</i>	Arizona white oak	25' x 25'	X			X	-	I,T	I,T	-	-	E	Included on this list on a trial basis
<i>Quercus fusiformis</i>	Escarpment live oak	25' x 30'	X			X	-	I,T	I,T	I,T	-	E	Texas native
<i>Quercus gambelii</i>	Gambel oak	25' x 25'	X			X	-	I,T	-	I,T	I,T,H		Requires supplemental water during drought
<i>Quercus muhlenbergii</i>	Chinquapin oak	40' x 50'	X			X	-	I,T	-	I,T	I,T		Texas native
<i>Quercus turbinella</i>	Scrub live oak	18' x 20'	X			X	-	I,T	I,T	I,T	I,T	E	Native in Sandia Mountains
<i>Rhus lanceolata*</i>	Prairie flameleaf sumac	15' x 20'	X			X	-	I,T	I	I,T	I,T		Fast growing, can form thickets
<i>Robinia neomexicana*</i>	New Mexico locust	25' x 15'	X	X	X	X	-	I,T	I,T	I,T	I,T		Thorny, thicket forming, requires consistent runoff, poisonous seeds, pink flowers in Spring
<i>Salix gooddingii</i>	Goodding's willow	25' x 25'				X	-	I	-	-	-		Riparian only, high water needs
<i>Sapindus saponaria var. drummondii</i>	Western soapberry	30' x 30'	X			X	-	I,T	I	I,T	I,T		Slow grower, white flowers in summer followed by inedible fruits
<i>Styphnolobium japonicum</i>	Japanese pagoda tree	35' x 25'	X			X	I,T	I,T	I,T	I,T	I,T		White flowers in summer
<i>Ulmus parvifolia</i> (and hybrids)	Lacebark elm	40' x 30'	X			X	-	I,T	I	I,T	I,T		Non-invasive, elm beetle resistant
<i>Vitex agnus castus</i>	Chaste tree	20' x 20'	X			X	I,T	I,T	I,T	-	-		
<i>Ziziphus jujuba*</i>	Jujube	25' x 25'	X	X	X	X	I,T	I,T	I,T	I,T	I,T		Thicket-forming barrier plant

\* indicates trees that are not recommended as street trees because of growth habit, thorns, fruit production, or root development.

More testing is needed on *Gymnocladus dioica* (questionable drought tolerance) and *Ulmus propinqua* (potentially invasive).

Several additional trees were considered for this list and not included because of concerns with heat and/or drought tolerance: *Celtis occidentalis*, *Gleditsia triacanthos*, *Juglans major and nigra*, *Juniperus scopulorum*, *Prunus cistena*, and *Quercus buckleyi*.

In general, trees provide important habitat for birds and pollinators. Conifers (pines and junipers on this list) do not provide the same benefit to pollinators that most deciduous trees do.

# SHRUBS

Botanical Name	Common Name	Mature Size (Height x Spread)	Biome				Elevation and Infiltration Zone (I = inundation, T = transition, H= high ground)					Wildlife Value		Evergreen/ Semi-	Notes
			Urban Ephemeral Riparian	Urban Grassland/ Shrubland	Shrub Desert Grassland	Riparian	West Mesa	Valley	East Mesa	Foothills	E. Mntn	Pollinator	Bird		
<i>Amorpha canescens</i>	Leadplant	3' x 3'	X	X	X	X	I	I	I	I	I,T	X			
<i>Amorpha fruticosa</i>	False indigo	10' x 10'	X			X	-	I	-	-	I,T	X			Phytoremediator for lead and perchlorate
<i>Anisacanthus wrightii</i>	Desert honeysuckle	5' x 4'	X	X	X	X	I,T	I,T	I,T	I,T	-	X	X		Bright red'-orange flowers in early summer and when well watered
<i>Arctostaphylos x coloradoensis</i>	Chieftain or Panchito manzanita	2' x 4'	X	X	X		T,H	T,H	T,H	T,H	T,H	X	X	E	Requires good drainage
<i>Artemisia filifolia</i>	Sand sage	4' x 4'	X	X	X		T,H	T,H	T,H	T,H	T,H		X	E	Requires good drainage, only give one year establishment irrigation
<i>Artemisia tridentata</i>	Big sage	4' x 4'	X	X	X		I,T,H	-	I,T,H	I,T,H	I,T,H	X	X	E	
<i>Atriplex canescens</i>	Fourt-winged saltbush	5' x 7'	X	X	X	X	T,H	T,H	T,H	T,H	T,H		X	E	Allergen-producing, use sparingly, will reseed, salt tolerant
<i>Atriplex lentiformis</i>	Quail bush	8' x 8'	X	X	X	X	T	T	T	T	-		X	E	Good for large spaces
<i>Baccharis salicifolia</i>	Mulefat	8' x 6'	X			X	I,T	I,T	I,T	-	-	X		SE	Sticky foliage
<i>Baccharis salicina</i>	Seep willow	6' x 6'	X			X	-	I,T	-	-	-	X	X	SE	Locally native
<i>Baccharis sarathroides</i>	Desert broom	10' x 10'	X	X		X	I,T,H	T,H	I,T,H	-	-	X	X	SE	
<i>Baccharis 'Starn Thompson'</i>	Starn Thompson broom	4' x 5'	X	X	X	X	-	I,T	-	I,T	-			E	Sterile cultivar
<i>Buddleia marrubifolia</i>	Wooly butterfly bush	4' x 4'	X	X	X	X	T,H	T,H	T,H	-	-	X	X	SE	
<i>Caesalpinia giliesii</i>	Yellow bird of paradise	5' x 5'	X	X	X	X	T,H	T,H	T,H	T,H	-	X	X		
<i>Caryopteris x clandonensis</i>	Blue mist spirea	4' x 4'	X	X		X	I	I	I	I,T	I,T	X			
<i>Cercocarpus breviflorus</i>	Hairy mountain mahogany	10' x 8'	X	X		X	-	-	T	T,H	T,H	X	X	SE	Slow growing
<i>Cercocarpus ledifolius</i>	Curlleaf mountain mahogany	10' x 12'	X	X		X	-	-	T	T,H	T,H	X	X	E	Slow growing
<i>Cercocarpus montanus</i>	Mountain mahogany	8' x 10'	X	X		X	-	-	T	T,H	T,H	X	X	SE	Slow growing
<i>Chamaebatiaria millefolium</i>	Fernbush	6' x 8'	X	X	X	X	I,T	I,T	I,T	I,T	I,T,H	X	X		
<i>Dalea capitata</i>	Sierra gold dalea	1' x 3'	X	X	X	X	T	T	T	-	-		X	SE	Very heat tolerant
<i>Ephedra nevadensis</i>	Nevada jointfir	4' x 4'	X	X	X		T,H	-	T,H	T,H	-	X	X	E	
<i>Ephedra viridis</i>	Green ephedra	2' x 4'	X	X	X		T,H	-	T,H	T,H	-	X	X	E	
<i>Ericameria larcifolia</i>	Turpentine bush	3' x 4'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X		E	Fall-blooming, important late-season nectar source for bees
<i>Ericameria nauseosa</i>	Chamisa'- Rabbitbrush	5' x 8'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	E	Flowers have foul odor
<i>Eriogonum fasciculatum</i>	Flat-top buckwheat	1' x 2'	X	X	X		T,H	-	T,H	T,H	-	X	X		
<i>Eriogonum wrightii</i>	Wright's buckwheat	1' x 2'	X	X	X		T,H	-	T,H	T,H	-	X	X		
<i>Fallugia paradoxa</i>	Apache plume	6' x 7'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	SE	
<i>Forestiera neomexicana</i>	New Mexico olive	12' x 12'	X	X		X	-	I,T	I,T	I,T,H	I,T,H	X	X		
<i>Garrya wrightii</i>	Wright's silktassel	6' x 6'	X	X		X	T,H	T,H	T,H	T,H	T,H			E	
<i>Hesperaloe parviflora</i>	Red yucca	3' x 3'	X	X	X		T,H	T,H	T,H	T,H	T,H	X	X	E	
<i>Krascheninnikovia lanata</i>	Winterfat	3' x 3'		X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H		X	SE	
<i>Larrea tridentata</i>	Creosote bush	6' x 6'	X	X	X		T,H	-	T,H	-	-	X	X	E	Yellow flowers in spring and winter

# SHRUBS

Botanical Name	Common Name	Mature Size (Height x Spread)	Biome				Elevation and Infiltration Zone (I = inundation, T = transition, H= high ground)					Wildlife Value		Evergreen/ Semi-	Notes
			Urban Ephemeral Riparian	Urban Grassland/ Shrubland	Shrub Desert Grassland	Riparian	West Mesa	Valley	East Mesa	Foothills	E. Mntn	Pollinator	Bird		
<i>Leucophyllum spp</i>	Texas ranger	3-6' x 3-6'	X	X	X	X	T,H	T,H	T,H	-	-	X		SE	Best species: <i>L. langmaniae</i> 'Lynn's Legacy' and 'Rio Bravo', <i>L. frutescens</i> 'Compacta' and 'Green Cloud', <i>L. revolutum</i> 'Houdini'
<i>Lycium andersonii</i>	Anderson wolfberry	6' x 6'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	-	X	X	E	Salt tolerant
<i>Mahonia haematocarpa</i>	Red mahonia'- barberry	6' x 5'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	E	Yellow flowers in spring followed by red berries
<i>Mahonia trifoliata</i>	Algerita	6' x 8'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	E	Yellow flowers in spring followed by red berries
<i>Nolina microcarpa</i>	Beargrass	5' x 7'		X	X		T,H	T,H	T,H	T,H	-	X	X	E	
<i>Nolina nelsonii</i>	Blue nolina	8' x 4'		X	X		T,H	T,H	T,H	-	-	X		E	
<i>Nolina texana</i>	Beargrass	3' x 3'		X	X		T,H	T,H	T,H	T,H	T,H	X	X	E	Locally native
<i>Prunus americana</i>	Wild plum	10' x 10'	X			X	I	I	I	I,T	I,T	X	X		
<i>Prunus besseyi</i>	Western sand cherry	5' x 5'	X	X	X	X	T,H	T,H	T,H	T,H	T,H	X	X		
<i>Prunus besseyi</i> 'Pawnee Buttes'	Pawnee Buttes sand cherry	2' x 6'	X	X	X	X	T,H	T,H	T,H	T,H	T,H	X	X		Groundcover variety of Western sand cherry
<i>Prunus virginiana var melanocarpa</i>	Western choke cherry	10' x 10'	X	X		X	-	I,T	I	I,T	I,T	X	X		Select from local provenance
<i>Purshia mexicana</i>	Cliff Rose	8' x 8'	X	X	X		T,H	-	T,H	T,H	T,H	X	X	E	Fragrant
<i>Purshia tridentata</i>	Antelope bitterbrush	5' x 5'	X	X	X		T,H		T,H	T,H	T,H	X	X	SE	
<i>Rhus glabra</i> 'Cismontana'	Compact smooth sumac	5' x 7'	X	X		X	-	I,T	I,T	I,T,H	I,T,H	X	X		Thicket-forming
<i>Rhus microphylla</i>	Littleleaf sumac	8' x 9'	X	X	X	X	I,T	I,T	I,T	I,T,H	I,T,H	X	X		
<i>Rhus trilobata</i>	Three leaf sumac	6' x 6'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H		X		Locally native
<i>Rhus trilobata</i> 'Autumn Amber'	Prostrate three-leaf sumac	2' x 6'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H		X		Groundcover variety of Three leaf sumac (locally native)
<i>Salix exigua</i>	Coyote willow	5' x 3'				X	-	I	I	I	I	X	X		Root sprouts, bank stabilizer
<i>Salvia chamaedryoides</i>	Mexican blue sage	1' x 2'	X	X			-	T	T	T	-	X		SE	Does well in clay
<i>Salvia greggii</i>	Autumn or Cherry sage	2' x 3'	X	X	X	X	I,T	I,T	I,T	I,T	I,T	X	X	SE	Brittle, blooms from spring to fall
<i>Salvia officinalis</i>	Culinary sage	2' x 3'	X	X	X	X	I,T	I,T	I,T	I,T	I,T	X		SE	Can be used for cooking
<i>Salvia pachyphylla</i>	Mojave sage	2' x 3'		X	X		-	T	T	T,H	T,H	X		SE	
<i>Salvia rosmarinus</i>	Rosemary	3' x 3'	X			X	T	T	T	-	-	X		E	
<i>Santolina chamaecyparissus</i>	Grey santolina	2' x 3'	X	X			T	T	T	T	T			E	
<i>Santolina virens</i>	Green santolina	2' x 3'	X	X			T	T	T	T	T			E	
<i>Teucrium aroanium</i>	Gray creeping germander	4" x 2'	X	X		X	T	T	T	T	T	X		E	
<i>Teucrium chamaedrys</i>	Wall germander	2' x 2'	X	X		X	I,T	I,T	I,T	I,T	I,T	X		E	
<i>Vauquelinia californica ssp</i>	Arizona rosewood	12' x 10'	X	X			T,H	T,H	T,H	T,H	-	X	X	E	Does well with high winds

Several additional shrubs were considered for this list and not included because of concerns with heat and/or drought tolerance, including *Rhus aromatica* 'Gro-Low', *Buddleia davidii*, and *Lavandula spp.*,

# HERBACEOUS PERENNIALS AND ANNUAL WILDFLOWERS

Botanical Name	Common Name	Mature Size (Height x Spread)	Biome				Elevation and Infiltration Zone (I = inundation, T = transition, H = high ground)					Wildlife Value		Notes
			Urban Ephemeral Riparian	Urban Grassland/ Shrubland	Shrub Desert Grassland	Riparian	West Mesa	Valley	East Mesa	Foothills	E. Mntn	Pollinator	Bird	
<i>Achillea millefolium</i>	Common yarrow	1' x 1'	X	X	X	X	-	I,T	I,T	I,T	I,T	X		
<i>Artemisia frigida</i>	Fringed sage	1' x 1'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H		X	
<i>Artemisia ludoviciana</i>	Prairie sage	2' x 3'	X	X	X	X	-	I,T,H	I,T,H	I,T,H	I,T,H	X		Spreads by rhizomes
<i>Asclepias speciosa</i>	Showy milkweed	3' x 1'	X			X	I	I,T	I,T	I,T	I,T	X	X	
<i>Asclepias subverticillata</i>	Horsetail milkweed	2' x 2'	X	X	X	X	I	I	I	I	I,T	X		
<i>Baileya radiata</i>	Desert marigold	1' x 1'	X	X	X		T,H	T,H	T,H	T,H	T,H	X	X	Biennial, prolific reseeder
<i>Berlandiera lyrata</i>	Chocolate flower	1' x 2'	X	X	X	X	T,H	-	T,H	T,H	T,H	X	X	Will reseed
<i>Calylophus hartwegii</i>	Sundrops	1' x 2'	X	X	X		T	-	T	T,H	T,H	X		
<i>Centranthus ruber</i>	Red Valerian	2' x 2'	X	X	X	X	I,T	I,T	I,T	I,T	I,T,H	X		Tolerant of a variety of conditions, will reseed
<i>Cirsium neomexicanum</i>	New Mexico thistle	6' x 2'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	Locally native, non-invasive
<i>Cleome serrulata</i>	Rocky Mountain beeplant	3' x 3'	X	X	X	X	I,T	I,T	I,T	I,T	I,T,H	X	X	Annual, available as seed
<i>Datura wrightii</i>	Sacred datura	2' x 6'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	All parts of plant are toxic, only plant in inaccessible basins.
<i>Epilobium canum</i>	Hummingbird trumpet	1' x 3'	X			X	-	I,T	-	I,T	I,T	X	X	
<i>Euphorbia rigida</i>	Gopher spurge	2' x 3'	X	X	X		T	T	T	T	-	X		Handle with caution- sap can burn skin. Will reseed
<i>Gaillardia aristata</i>	Blanketflower	1' x 1'	X	X	X		T,H	T,H	T,H	T,H	T,H	X		Reseeds readily
<i>Glandularia gooddingii</i>	Goodding's verbena	1' x 1'	X			X	T	T	T	T	T	X		Requires water to bloom
<i>Glandularia rigida</i>	Sandpaper verbena	2' x 4'	X	X	X	X	T	T	T	-	-	X		
<i>Helianthus annuus</i>	Common sunflower	4-6' tall	X	X	X	X	-	I,T,H	-	-	I,T,H	X	X	Annual, great for birds, bees, and butterflies (available as seed), phytoremidator of hydrocarbons and metals
<i>Helianthus petiolaris</i>	Prairie sunflower	4' x 4'	X	X		X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	Annual, great for birds, bees, and butterflies (available as seed)
<i>Hymenoxys acaulis</i>	Angelita daisy	1' x 1'	X	X	X		T,H	T,H	T,H	T,H	T,H	X		Reblooms throughout spring and summer
<i>Linum lewisii</i>	Blue flax	2' x 2'	X	X		X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X		
<i>Melampodium leucanthum</i>	Blackfoot daisy	1' x 2'		X	X		T,H	-	T,H	T,H	T,H	X	X	Long-lived, will reseed
<i>Mirabilis multiflora</i>	Desert four o'clock	2' x 3'	X	X	X	X	T,H	-	T,H	T,H	T,H	X		Will reseed
<i>Monarda fistulosa</i>	Wild beebalm	2' x 2'	X	X	X	X	-	-	-	I,T,H	I,T,H	X		
<i>Nepeta racemosa</i>	Catmint	2' x 2'	X	X		X	T	T	T	T	T	X		Blooms spring to fall
<i>Oenothera caespitosa</i>	White tufted evening primrose	1' x 2'	X	X	X	X	T,H	T,H	T,H	T,H	T,H	X		Short-lived, but reseeds readily
<i>Oenothera speciosa</i>	Mexican evening primrose	1' x 2'	X	X	X	X	I,T	I,T	I,T	I,T	I,T	X	X	Needs some water and sunlight to bloom
<i>Oenothera lindheimeri</i>	Gaura	3' x 3'	X			X	I,T	I,T	I,T	I,T	I,T	X		
<i>Penstemon ambiguus</i>	Sand penstemon	2' x 2'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	Usually available as seed
<i>Penstemon thurberi</i>	Thurber's penstemon	2' x 2'	X	X	X		I,T,H	I,T,H	I,T,H	I,T,H	-	X	X	
<i>Psilotrophe tagetina</i>	Wooly paperflower	1' x 2'		X	X		T,H	T,H	T,H	T,H	T,H	X		
<i>Ratibida columnifera</i>	Mexican hat	1' x 1'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	
<i>Salvia darcyi</i>	Vermillion Bluffs sage	3' x 3'	X	X		X	-	T	T	T	T	X	X	Great for hummingbirds
<i>Sphaeralcea spp</i>	Globemallow	2' x 2'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	Short-lived, reseeds

## HERBACEOUS PERENNIALS AND ANNUAL WILDFLOWERS

Botanical Name	Common Name	Mature Size (Height x Spread)	Biome				Elevation and Infiltration Zone (I = inundation, T = transition, H= high ground)					Wildlife Value		Notes
			Urban Ephemeral Riparian	Urban Grassland/ Shrubland	Shrub Desert Grassland	Riparian	West Mesa	Valley	East Mesa	Foothills	E. Mntn	Pollinator	Bird	
<i>Symphotrichum ericoides</i>	White heath aster	2' x 2'	X	X	X	X	-	I,T,H	-	I,T,H	I,T,H	X		Bosque native
<i>Zinnia acerosa</i>	Desert zinnia	1' x 1'	X	X	X		T,H	-	T,H	T,H	-	X	X	
<i>Zinnia grandiflora</i>	Prairie zinnia	0.5' x 1'	X	X	X		T,H	-	T,H	T,H	T,H	X	X	

A note about Penstemons: Penstemons require well drained soils and do not tolerate inundation. The Penstemons listed above (*ambiguus* and *thurberi*) are the exceptions that have been observed to tolerate some inundation. However, there are many Penstemons (including *eatonii*, *parryi*, *pinifolius*, *pseudospectabilis*, *strictus*, and *superbus*) that may do well in areas around GSI features. If conditions are favorable, they will reseed themselves into wetter soil.

**GRASSES**

Botanical Name	Common Name	Mature Size (Height x Spread)	Biome				Elevation and Infiltration Zone (I = inundation, T = transition, H= high ground)					Wildlife Value		Notes
			Urban Ephemeral Riparian	Urban Grassland/ Shrubland	Shrub Desert Grassland	Riparian	West Mesa	Valley	East Mesa	Foothills	E. Mntn	Pollinator	Bird	
<i>Andropogon gerardii</i>	Big bluestem	4' x 2'				X	-	I,T	-	I,T	I,T	X	X	Salt tolerant , phytoremediation of hydrocarbons, some heavy metals, and PCBs (through accumulation)
<i>Aristida purpurea</i>	Purple three-awn	1' x 1'		X	X		T,H	T,H	T,H	T,H	T,H	X	X	Available as seed, good for erosion control and reclamation
<i>Bouteloua curtipendula</i>	Sideoats grama	2' x 2'	X	X	X		T,H	T,H	T,H	T,H	T,H	X	X	
<i>Bouteloua gracilis</i>	Blue grama	2' x 2'	X	X	X		T,H	T,H	T,H	T,H	T,H	X	X	Helps to break down hydrocarbons
<i>Distichlis spicata</i>	Desert saltgrass	2' tall, spreading				X	I	I	I	I	I	X	X	Available as seed, high salt tolerance, higher water needs, mat forming
<i>Elymus elymoides</i>	Squirreltail	1' x 1'	X	X	X		T,H	T,H	T,H	T,H	T,H			Seed heads can be dangerous for pets, good for reclamation
<i>Elymus lanceolatus ssp psammophilus</i>	Streambank wheat	1' x 2'	X	X	X	X	-	I,T	-	I,T	I,T			Sod-forming
<i>Eragrostis trichodes</i>	Sand lovegrass	3' x 3'	X	X	X		T,H	T,H	T,H	T,H	T,H	X		
<i>Festuca glauca</i>	Blue fescue	1' x 1'					-	-	-	-	T			
<i>Muhlenbergia asperifolia</i>	Alkali muhly/Scratchgrass	2' x 2'	X	X	X	X	-	I,T	-	-	-			Salt tolerant
<i>Muhlenbergia capillaris</i>	Regal mist	3' x 3'	X			X	I,T	-	I,T	I,T	I,T		X	High salt tolerance
<i>Muhlenbergia emersleyi</i>	Bull grass	3' x 3'	X			X	I,T	I,T	I,T	I,T	-	X	X	
<i>Muhlenbergia lindheimerii</i>	Autumn glow muhly	5' x 5'	X			X	I,T	I,T	I,T	I,T	-		X	
<i>Muhlenbergia porteri</i>	Bush muhly	1' x 3'	X	X	X		T,H	T,H	T,H	T,H	T,H		X	Usually available as seed
<i>Muhlenbergia rigens</i>	Deer grass	4' x 4'	X	X	X	X	I,T	I,T	I,T	I,T	I,T	X	X	
<i>Muhlenbergia rigida</i>	Nashville muhly	2' x 3'	X	X	X	X	I,T	I,T	I,T	I,T	I,T	X		
<i>Nassella tenuissima</i>	Mexican feather grass	2' x 2'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H			Will reseed. Only plant where spreading is desired.
<i>Panicum obtusum</i>	Vine mesquite	2', spreading	X	X	X	X	I,T	I,T	I,T	I,T	I,T	X		Available as seed, mat forming
<i>Panicum virgatum</i>	Switchgrass	3' x 2'	X			X	-	I	-	-	I,T	X	X	
<i>Pascopyrum'-Agropyron smithii</i>	Western wheat grass	2' x 2'	X			X	-	I,T	-	I,T	I,T,H		X	Helps to break down hydrocarbons, can crowd out wildflowers, tolerates poor drainage
<i>Pleuraphis jamesii</i>	Galleta grass	1' x 1'	X	X	X		T,H	T,H	T,H	T,H	T,H	X	X	
<i>Schizachyrium scoparium</i>	Little bluestem	2' x 2'	X	X	X	X	I,T,H	T,H	I,T,H	I,T,H	T,H	X	X	Helps to break down hydrocarbons
<i>Sorghastrum nutans</i>	Indiangrass	4' x 2'	X			X	I,T	I,T	I,T	I,T	I,T	X	X	Helps to break down hydrocarbons, tolerates poor drainage
<i>Sporobolus airoides</i>	Alkali sacaton	2' x 2'	X	X	X	X	I,T,H	I,T,H	I,T,H	I,T,H	I,T,H	X	X	Tolerates salinity and inundation
<i>Sporobolus cryptandrus</i>	Sand dropseed	2' x 2'		X	X		T,H	T,H	T,H	T,H	T,H	X	X	
<i>Sporobolus wrightii</i>	Giant sacaton	5' x 5'	X			X	I,T	I,T	I,T	I,T	I,T	X	X	Tolerates salinity and inundation