

**NATIVE PLANTS FOR NORTHERN ARIZONA LANDSCAPES**  
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## HOW TO PRACTICE ENVIRONMENTAL HORTICULTURE

Environmental horticulture utilizes an understanding and awareness of your site and the native plants available to you and the landscape features and gardening techniques which will collect and preserve water resources. This approach allows for both natural reproduction of plants and their establishment in the landscape.

1. Know your site, its seasonal fluctuations, natural weather cycles and microclimates.
2. Know the plants and features already present on your site.
3. Use water harvesting techniques—cistern, channeling and contours, planting rings, low spots, etc.
4. Use rocks and mulches to conserve and collect water.
5. Use some higher-water using plants to create shade and create protected zones of higher humidity.
6. Visit natural areas with like microclimates to your site and see how, where and in what combinations native plants occur. Look at native plant gardens and see what you like and what works. Once you know your site and its microclimates, you can use native plants from many different habitats in your landscape.
7. Create a healthy, open soil. Use organic soil amendments such as compost and composted manure tilled into the soil to create an open soil, which will allow water to enter. Organic matter will also help cindery and excessively drained soils hold water.
8. Plant with the seasons. Usually, this means waiting for the monsoon season. Seed wildflowers and grasses just as the monsoons arrive. Begin planting any time thereafter, and continue into early autumn. Direct seed plants that need winter chill to germinate in late summer-early autumn.
9. When planting make sure water will reach the plant roots. Fill the planting hold with water twice before planting. Double-water plants in containers before planting. Water in well. For extra water conservation, gently remove artificial soil from plant roots before planting. Once soil is moist, apply mulch to conserve water.
10. Be sure to monitor plants for water needs until they are established. Thereafter, give infrequent, deep water. When using plants from similar habitats, water infrequently in dry years or to improve appearance.
11. Avoid planting weeds and invasive species. Practice a regular and vigilant weed management program on your land.

Please come and visit the gardens at the Arboretum at Flagstaff for ideas and inspiration. While the majority of plants in the Arboretum gardens are native to the Colorado Plateau, the following gardens specifically showcase native plants: Entrance Garden, Courtyard Garden, Mixed Conifer Habitat, Water-Conservation Garden (with habitat zones), Constructed Wetland, Charles O. Minor Nature Trail, Shade Garden.

## HIGH-ELEVATION COLORADO PLATEAU LANDSCAPING LISTS BY HABITAT

In this list, plants are listed by names in common use in the nursery trade.

Habitat descriptions refer to the natural areas where the listed native landscaping plants occur, but you can find microclimates in your yard by looking for or creating the specified environmental conditions.

Water designations are as follows:

Low – Once established, plants will thrive with no supplemental water within the designated habitat.

Low to moderate — Once established, plants will live with no supplemental water within the designated habitat, but will perform and look better with infrequent, deep watering during periods of low precipitation.

Moderate – Once established, plants will do best with regular watering.

Moderate to High – Once established, plants will look their best with frequent water. Many of these plants will go dormant with low or infrequent watering.

High - These plants will require constant moisture.

To help in the plant selection process, visit natural areas with microclimates similar to your site and see how, where and in what combinations native plants occur. Look at native plant gardens and see what you like and what works. Once you know your site and its microclimates, you can use native plants from many different habitats in your landscape.

If you do not find your community listed below, call or e-mail the Arboretum at Flagstaff and we will help you determine which lists are best for your landscape.

Dry Ponderosa Pine Forest Habitat (Open Woodland)

This is the most frequently used plant list for the Flagstaff area and includes most Flagstaff communities. Use plants from this list for landscapes in areas in Zone 4 or warmer (minimum temperature –30 to –20 degrees) characterized by open Ponderosa Pine-Arizona Fescue Forest, at elevations above 6500’ and in other areas or microclimates with moderately heavy, seasonally dry soils.

Flagstaff communities include University Heights, Cherry Hill, Downtown, Cheshire, Mountaineer, Kachina, Forest Highlands, Pine Dell, Munds Park, Garland Prairie, Government Prairie, warm parts of Williams, Mormon Lake, Prescott and Seligman and other dry, open pine forests with moderately short growing seasons.

Trees:	Common Name	Height x width	Water	Light
<i>Abies concolor</i>	White Fir	90’ x 25’	Low to moderate	Sun
<i>Fraxinus velutina</i>	Arizona Ash	35’ x 20’	Low to moderate	Sun
<i>Juniperus deppeana</i>	Alligator Juniper	25’ x 20’	Low to moderate	Sun to lt. shade
<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	25’ x 20’	Low to moderate	Sun to lt. shade
<i>Picea pungens glauca</i>	Colorado Blue Spruce	100’ x 40’	Moderate	Sun
<i>Pinus ponderosa</i>	Ponderosa Pine	120’ x 30’	Low	Sun
<i>Quercus gambelli</i>	Gambel Oak	40’ x 20’	Low to moderate	Sun to lt. shade
<i>Robinia neomexicana</i>	New Mexican Locust	24’ x 12’	Low	Sun to shade

Shrubs:

<i>Amelanchier utahensis</i>	Utah Serviceberry	15’ x 12’	Low	Sun to lt. shade
<i>Arctostaphylos patula</i>	Green-leaf Manzanita	5’ x 5’	Low to moderate	Sun to shade
<i>Arctostaphylos uva-ursi</i>	Kinnickinick	6’ x 3’	Moderate	Shade to lt. sun
<i>Artemisia ludoviciana</i>	Louisiana Sagebrush	3’ x spreading	Low to moderate	Sun to shade
<i>Ceanothus fendleri</i>	Fendler’s Buckbrush	2’ x 4’	Low to moderate	Sun to shade
<i>Cercocarpus ledifolius</i>	Curl-leaf mountain-mahogany	25’ x	Low to moderate	Sun to lt. shade
<i>Cercocarpus montanus</i>	Alder-leaf Mountain Mahogany	10’ x 10’	Low to moderate	Sun to lt. shade
<i>Chrysothamnus nauseosus</i>	Rabbitbrush	5’ x 5’	Low	Sun
<i>Chrysothamnus viscidiflorus</i>	Rabbitbrush	3’ x 5’	Low	Sun
<i>Eriogonum wrightii</i>	Wright’s Buckwheat	1’ x 2’	Low	Sun to lt. shade
<i>Holodiscus dumosus</i>	Mountain Spray	8’ x 5’	Low to moderate	Shade to lt. sun
<i>Pachystima myrsinites</i>	Mountain-Lover	2’ x 3’	Moderate	Shade to lt. sun
<i>Prunus virginiana</i>	Chokecherry	12’ x 8’	Low to moderate	Sun to lt. shade

<i>Rhus trilobata</i>	Three-leaf Sumac	8' x 8'	Low	Sun to shade
<i>Ribes cereum</i>	Wax Currant	6' x 5'	Low	Sun to shade
<i>Ribes pinetorum</i>	Orange Mountain Gooseberry	4' x 5'	Low to moderate	Sun to lt. shade
<i>Rosa woodsii</i> var. <i>arizonica</i>	Wild Rose	6' x spreading	Low to moderate	Sun to shade
<i>Sambucus caerulea</i>	Elderberry	15' x 15'	Low to moderate	Sun to lt. shade
<i>Tetradymia canescens</i>	Horse-brush	3' x 3'	Low	Sun to lt. shade

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Yarrow	1' x spreading	Low to moderate	Sun
<i>Antennaria parvifolia</i>	Pussytoes	3" x spreading	Low to moderate	Shade to sun
<i>Antennaria rosulata</i>	Little-leaf Pussytoes	2" x spreading	Low to moderate	Sun
<i>Aster falcatus</i>	Small White Aster	2-1/2' x 2-1/2'	Low	Sun to lt. shade
<i>Castilleja integra</i>	Paintbrush	1' x 1'	Low to moderate	Sun to lt. shade
<i>Calochortus ambiguus</i>	Sego Lily	2'	Low to moderate	Sun to lt. shade
<i>Erigeron speciosus</i>	Fleabane		Low to moderate	Sun to shade
<i>Eriogonum racemosum</i>	Red-root Buckwheat	1' x 1'	Low	Sun to shade
<i>Eriogonum umbellatum</i>	Sulfur Buckwheat	1' x 1'	Low	Sun to lt. shade
<i>Eriogonum wrightii</i>	Wright's Buckwheat	1' x 2'	Low	Sun to lt. shade
<i>Erysimum capitatum</i>	Western Wallflower	3' x 2'	Low to moderate	Shade to sun
<i>Erysimum wheeleri</i>	Wheeler's Wallflower	3' x 2'	Low to moderate	Shade to sun
<i>Gentiana affinis</i>	Pleated Gentian	1' x 2'	Low to moderate	Sun to lt. shade
<i>Geranium caespitosum</i>	Purple Geranium	1' x 2'	Low to moderate	Sun to shade
<i>Geum triflorum</i>	Old Man's Whiskers	6' x spreading	Low	Sun to shade
<i>Helianthus maximilliani</i>	Maximillian's Sunflower	8' x spreading	Low	Sun
<i>Heuchera</i> sp.	Alum Root, Coral Bells	6' x spreading	Low to moderate	Shade to sun (w/more frequent H2O)
<i>Hymenopappus mexicanus</i>	Mexican Woollywhite	1' x 1'	Low	Sun to lt. shade
<i>Hymenoxys cooperi</i>	Cooper's Goldflower	1' x 1'	Low	Sun
<i>Hymnopappus filifolius</i>	Fine-leaf Woollywhite	1' x 1'	Low	Sun to lt. shade
<i>Ipomopsis aggregata</i>	Skyrocket	3' x 2'	Low	Sun
<i>Iris missouriensis</i>	Western Blue Flag	2' x clumping	Moderate to high	Sun
<i>Linanthastrum nuttallii</i>	Mountain Phlox	6" x 2'	Low to moderate	Shade to lt. sun
<i>Lithospermum multiflorum</i>	Puccoon	1' x 1'	Low	Sun to shade
<i>Lupinus argenteus</i>	Silvery Lupine	3' x 3'	Low	Sun to shade
<i>Machaeranthera bigelovii</i>	Bigelow's Aster	1' x 1'	Low	Sun
<i>Machaeranthera canescens</i>	Hoary Aster	2-1/2' x 3'	Low	Sun to lt. shade
<i>Macromeria viridiflora</i>	Pearlseed	3' x 3'	Low to moderate	Sun to shade

Mirabilis multiflora	Many-flowered Four O'Clock	2' x 3'	Low	Sun
Mirabilis oxybaphoides	Four O'Clock	2' x 1'	Low	Sun
Monardella odoratissima	Coyote Mint	1' x 1'	Low	Sun to lt. shade
Oenothera caespitosa	Tufted Evening-Primrose	1' x 1'	Low	Sun
Oxytropis lambertii	Lambert's Locoweed	1' x 1'	Low	Sun to lt. shade
Penstemon barbatus	Scarlet Bugler		Low to moderate	Shade to sun
Penstemon clutei	Sunset Crater Penstemon		Low	Sun
Penstemon linarioides	Mat Penstemon		Low	Sun to lt. shade
Penstemon nudiflorus	Flagstaff Penstemon		Low	Sun to lt. shade
Penstemon pseudospectabilis	Royal Penstemon		Low to moderate	Sun to lt. shade
Penstemon rostriflorus	Bridges' Penstemon		Low to moderate	Sun to shade
Penstemon virgatus	Wand Penstemon		Low to moderate	Sun to lt. shade
Pericome caudata	Taperleaf		Low to moderate	Sun to lt. shade
Phlox austromontana	Mountain Phlox		Low to moderate	Sun to lt. shade
Phlox woodhousei	Woodhouse's Phlox		Low to moderate	Sun to lt. shade
Potentilla hippiana	Silvery Cinquefoil		Low to moderate	Sun to shade
Potentilla subviscosa	Clubleaf Cinquefoil		Low to moderate	Sun to shade
Pseudocymopterus montanus	Mountain Parsley		Low to moderate	Shade to sun
Senecio multicapitatus	Axhead Groundsel		Low	Sun
Senecio multilobatus	Basin Butterweed		Low	Sun to lt. shade
Senecio spartioides	Broom Groundsel	2-1/2' x 2'	Low	Sun
Senecio wootoni	Wooton's Groundsel		Low to moderate	Sun to shade
Sidalcea neomexicana	Alkali Checkerbloom		Moderate to high	Sun
Solidago canadensis	Canada Goldenrod		Low to moderate	Sun to shade
Solidago sparsiflora	Goldenrod		Low	Sun to shade
Solidago wrightii	Wright's Goldenrod		Low to moderate	Sun to shade
Swertia radiata	Deers-ears		Low to moderate	Sun to shade
Thalictrum fendleri	Mountain Meadow Rue		Low to moderate	Shade to sun
Thermopsis pinetorum	Golden Banner		Moderate	Sun to shade
Viguiera multiflora	Showy Goldeneye		Low	Sun
Viola canadensis	Canada Violet		Low to moderate	Shade

Grasses & Sedges:

<i>Andropogon gerardii</i>	Big Bluestem		Low	Sun
<i>Blepharoneuron tricholepis</i>	Pine Dropseed		Low to moderate	Lt. shade to sun
<i>Bouteloua curtipendula</i>	Sideoats Grama		Low	Sun to lt. shade
<i>Bouteloua gracilis</i>	Blue Grama		Low to moderate	Sun to lt. shade
<i>Buchloe dactyloides</i>	Buffalograss		Low to moderate	Sun
<i>Carex</i> sp.	Sedges		Varies with species	Sun
<i>Elymus smithii</i>	Smith's Wheatgrass		Low	Sun to lt. shade
<i>Festuca arizonica</i>	Arizona Fescue		Low to moderate	Sun to shade
<i>Hesperostipa comata</i>	Needle-and-Thread		Low	Sun
<i>Hilaria jamesii</i>	Galleta		Low	Sun
<i>Muhlenbergia montana</i>	Mountain Muhly		Low to moderate	Sun to lt. shade
<i>Muhlenbergia wrightii</i>	Spike Muhly		Low	Sun
<i>Piptatherum micrantha</i>	Little Ricegrass		Low	Sun
<i>Piptochaetium pringlei</i>	Pringle's Needlegrass		Low	Sun
<i>Poa arida</i>	Plains Bluegrass		Low	Sun to lt. shade
<i>Poa fendlerana</i>	Muttongrass		Low to moderate	Shade to sun
<i>Schizachryium scoparium</i>	Little Bluestem		Low	Sun to lt. shade
<i>Sorghastrum nutans</i>	Indiangrass		Low to moderate	Sun
<i>Sporobolus cryptandrus</i>	Sand Dropseed		Low	Sun
<i>Sporobolus interruptus</i>	Black Dropseed		Low to moderate	Sun
<i>Stipa robusta</i>	Sleepygrass		Low	Sun

High-elevation Cold Moist Habitat

This list is for the coldest areas in Flagstaff. Use plants from this list for landscapes in areas in Zone 3 or colder (minimum temperature –40 degrees), at elevations above 7100' and in other areas or microclimates with northern exposures, moist soils, cold drainages, open parks or cold and irrigated gardens. Naturally occurring high-elevation cold moist habitats in Flagstaff include cold communities along Hwy. 180 north including Baderville, Ft. Valley, Hart Prairie, Snowbowl, cold drainages in Parks, and other moist, open parks with short growing seasons throughout the region (e.g. Munds Park).

Trees:

<i>Abies concolor</i>	White Fir		Low	Sun
<i>Abies lasiocarpa</i> ssp. <i>arizonica</i>	Corkbark Fir		Low to moderate	Shade to sun
<i>Acer glabrum</i>	Rocky Mountain Maple		Low to moderate	Sun to lt. shade
<i>Picea engelmannii</i>	Engelmann Spruce		Low to moderate	Sun
<i>Pinus aristata</i>	Bristlecone Pine		Low to moderate	Sun
<i>Pinus flexilis</i>	Limber Pine		Low to moderate	Sun to shade
<i>Pinus ponderosa</i>	Ponderosa Pine		Low	Sun to lt. shade
<i>Pinus strobiformis</i>	Southwestern White Pine		Low to moderate	Sun to shade
<i>Populus tremuloides</i>	Quaking Aspen		Moderate	Sun
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	Rocky Mountain Douglas Fir		Low to moderate	Sun to shade

Shrubs:

<i>Arctostaphylos uva-ursi</i>	Kinnickinick	6" x 3'	Low	Shade to lt. sun
<i>Cornus sericea</i>	Red-Twig Dogwood	8' x 8'	Low to moderate	Sun to shade
<i>Holodiscus dumosus</i>	Mountain Spray	8' x 5'	Low	Shade to lt. sun
<i>Juniperus communis</i>	Common Juniper	3' x 8'	Low	Sun to shade
<i>Lonicera involucrata</i>	Twinberry	8' x 8'	Low to moderate	Sun to shade
<i>Mahonia repens</i>	Creeping Barberry	6" x spreading	Low	Shade to sun
<i>Pachystima myrsinites</i>	Mountain Lover	2' x 3'	Low to moderate	Shade to sun
<i>Physocarpus monogynous</i>	Mountain Ninebark		Low to moderate	Shade to lt. sun
<i>Potentilla fruticosa</i>	by Cinquefoil	3' x 3'	Low	Sun
<i>Rhus trilobata</i>	Three-leaf Sumac	8' x 8'	Low	Sun to shade
<i>Ribes cereum</i>	Wax Currant	8' x 8'	Low	Sun to shade
<i>Ribes montigenum</i>	Alpine Prickly Currant	5' x 5'	Low	Sun to shade
<i>Ribes pinetorum</i>	Orange Mountain Gooseberry	4' x 5'	Low	Sun to lt. shade
<i>Rosa woodsii</i> var. <i>arizonica</i>	Wild Rose	5' x spreading	Low	Sun to shade



<i>Salix scoulerana</i>	Scouler Willow or Fire Willow	3' x 5'	Low to moderate	Sun to lt. shade
<i>Sorbus scopulina</i>	Western Mountain Ash	18' x 12'	Low to moderate	
<i>Sambucus racemosa</i> var. <i>microbotrys</i>	Red Elderberry	5' x 5'	Low to moderate	Sun to lt. shade

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Yarrow	1' x spreading	Low to moderate	Sun to lt. shade
<i>Aconitum columbianum</i>	Monkshood	5' x 2'	Moderate	Shade
<i>Antennaria marginata</i>	Pussytoes	3" x spreading	Moderate	Shade to lt. sun
<i>Antennaria parvifolia</i>	Pussytoes	6" x spreading	Low to moderate	Shade to sun
<i>Antennaria rosulata</i>	Little-leaf Pussytoes	3" x spreading	Low to moderate	Sun
<i>Aquilegia chrysantha</i>	Golden Columbine	1' x 1'	Low	Shade to sun
<i>Aster adscendens</i>	Leafy-bract Aster	1' x 1'	Low	Sun to lt. shade
<i>Besseyia arizonica</i>	Arizona Kittentails	6" x 1'	Low	Shade
<i>Calochortus ambiguus</i>	Sego Lily	2' x 1'	Low to moderate	Sun to lt. shade
<i>Campanula parryi</i>	Parry's Bellflower	4" x spreading	Low to moderate	Sun to lt. shade
<i>Campanula rotundifolia</i>	Bluebells of Scotland	1' x spreading	Low to moderate	Shade to sun
<i>Castilleja integra</i>	Paintbrush	1' x 1'	Low to moderate	Sun
<i>Delphinium geraniifolium</i>	Geranium-leaf Larkspur	3' x 2'	Low	Sun to shade
<i>Dugaldia hoopesii</i>	Orange Mountain Daisy	3' x 2'	Low	Sun
<i>Erigeron flagellaris</i>	Whiplash Daisy	3" x spreading	Low to moderate	Sun to shade
<i>Erigeron speciosus</i>	Showy Fleabane	2' x 2'	Low	Sun to shade
<i>Geranium richardsonii</i>	Richardson's Geranium	2' x 2'	Low	Sun to shade
<i>Geum triflorum</i>	Old Man's Whiskers	6" x spreading	Low	Sun to shade
<i>Heuchera</i> sp.	Alum Root or Coral Bells	Varies with species	Low	Shade to sun (w/more water)
<i>Ipomopsis aggregata</i> x <i>teunituba</i>	Pink Ipomopsis	2-1/2' x 2'	Low	Sun
<i>Linum lewisii</i>	Blue Flax	2-1/2' x 2-1/2'	Low	Sun
<i>Swertia radiata</i>	Deers-ears	6' x 1'	Low	Sun to shade
<i>Gentiana affinis</i>	Pleated Gentian	1' x 2'	Low	Sun to lt. shade
<i>Iris missouriensis</i>	Western Blue Flag	2' x clumping	Low to moderate	Sun
<i>Lupinus argenteus</i>	Silvery Lupine	3' x 2'	Low	Sun to shade
<i>Macromeria viridiflora</i>	Pearlseed	3' x 4'	Low	Sun to shade
<i>Monarda fistulosa</i> var. <i>menthaefolia</i>	Bee Balm	2' x spreading	Low to moderate	Sun
<i>Oxyria digyna</i>	Mountain Sorrel	1' x 1'	Low to moderate	Sun to lt. shade

<i>Oxytropis lambertii</i>	Lambert's Locoweed	1' x 1'	Low	Sun to lt. shade
<i>Penstemon barbatus</i>	Scarlet Bugler	3' x 1'	Low	Shade to sun
<i>Penstemon virgatus</i>	Wand Penstemon	1' x 1'	Low	Sun to lt. shade
<i>Pericome caudata</i>	Taperleaf	5' x 6'	Low	Sun to lt. shade
<i>Potentilla hippiana</i>	Silvery Cinquefoil	1' x spreading	Low	Sun to shade
<i>Primula parryi</i>	Parry's Primrose	1' x 1'	Low to moderate	Sun to lt. shade
<i>Polemonium foliosissimum</i>	Sky Pilot	2' x 2'	Low	Sun to lt. shade
<i>Potentilla crinita</i>	Cinquefoil	6" x spreading	Low	Sun to shade
<i>Pteridium aquilinum</i>	Bracken	2-1 <sup>1</sup> / <sub>2</sub> ' x spreading	Low to moderate	Sun to shade
<i>Senecio bigelovii</i>	Nodding Groundsel	1' x 1'	Low	Shade to sun
<i>Sidalcea neomexicana</i>	Alkali Checkerbloom	2-1 <sup>1</sup> / <sub>2</sub> ' x 2'	Low to moderate	Sun
<i>Thalictrum fendleri</i>	Mountain Meadow Rue		Low	Shade to sun
<i>Thermopsis pinetorum</i>	Golden Banner		Low to moderate	Sun to shade
<i>Viola canadensis</i>	Canada Violet		Low	Shade

Grasses & Sedges:

<i>Agrostis scabra</i>	Bentgrass		Moderate	Sun to lt. shade
<i>Blepharoneuron tricholepis</i>	Pine Dropseed		Low	Lt. shade to sun
<i>Carex</i> sp.	Sedges		Varies with species	Sun
<i>Deschampsia caespitosa</i>	Tufted Hairgrass		Moderate	Sun
<i>Festuca arizonica</i>	Arizona Fescue		Low	Sun to shade
<i>Muhlenbergia montana</i>	Mountain Muhly		Low	Sun to lt. shade
<i>Piptochaetium pringlei</i>	Pringle's Needlegrass		Low	Sun to lt. shade
<i>Phleum alpinum</i>	Alpine Timothy		Moderate	Sun

Warm Ponderosa Pine Forest/Pinyon-Juniper Woodland

Use plants from this list for landscapes in areas in Zone 5 or warmer (minimum temperature –10 to -20 degrees) characterized by Ponderosa Pine Forest/ Pinyon Juniper Woodland at elevations above 5500’ and in other areas or microclimates with seasonally dry soils of moderate to excessive drainage (ranging in texture from loam to cinder). Flagstaff communities include Continental, Fox Hills, the base of Mt. Elden (or “Banana Belt”), Timberline, Doney Park, Leupp, Winona, Ash Fork, forested areas in east Flagstaff along North 89A, warmer areas of Williams and north along Highway 64 to the South Rim of the Grand Canyon, and in other neighboring dry, “warm” areas with moderately long growing seasons such as Chino Valley and portions of Prescott.

With careful choice of warm microsities, plants from USDA Zone 6 may also be used in gardens in these areas.

Trees:

Cupressus arizonica	Arizona Cypress		Low	Sun
Fraxinus velutina	Arizona Ash		Moderate	Sun
Juniperus deppeana	Alligator Juniper		Low	Sun to lt. shade
Juniperus monosperma	One-seed Juniper		Low	Sun to lt. shade
Juniperus osteosperma	Utah Juniper		Low	Sun to lt. shade
Juniperus scopulorum	Rocky Mountain Juniper		Low to moderate	Sun to lt. shade
Pinus edulis	Pinyon Pine		Low	Sun
Quercus gambelli	Gambel Oak		Low to moderate	Sun to lt. shade
Robinia neomexicana	New Mexican Locust		Low	Sun to shade

Shrubs:

Agave Parryi	Parry’s Agave		Low	Sun
Amelanchier utahensis	Utah Serviceberry		Low	Sun to lt. shade
Arctostaphylos pringlei	Pringle’s Manzanita		Low	Sun to lt. shade
Arctostaphylos pungens	Point-leaf Manzanita		Low	Sun to lt. shade
Artemisia tridentata	Big Sagebrush		Low	Sun to lt. shade
Atriplex canescens	Four-Wing Saltbrush		Low	Sun
Mahonia fremontii	Fremont Barberry		Low	Sun
Ceanothus fendleri	Fendler’s Buckbrush		Low	Sun to shade
Cercocarpus ledifolius	Curl-leaf mountain-mahogany		Low	Sun to lt. shade
Cercocarpus montanus	Alder-leaf Mountain Mahogany		Low	Sun to lt. shade
Chamaebatiaria millefolium	Fernbush		Low	Sun
Chrysothamnus nauseosus	Rabbitbrush		Low	Sun

<i>Chrysothamnus viscidiflorus</i>	Rabbitbrush		Low	Sun
<i>Ephedra viridis</i>	Mormon Tea		Low	Sun
<i>Fallugia paradoxa</i>	Apache Plume		Low	Sun
<i>Fendlera rupicola</i>	Cliff Fendlerbush		Low	Sun to lt. shade
<i>Forestiera neomexicana</i>	Desert Olive		Low	Sun
<i>Kuhnia rosmarinifolia</i>	False Boneset		Low	Sun
<i>Lycium fremontii</i>	Pale Wolfberry		Low	Sun
<i>Mahonia repens</i>	Creeping Barberry		Low to moderate	Shade to sun
<i>Philadelphus microphyllus</i>	Little-leaf Mock Orange		Low	Sun
<i>Purshia stansburiana</i>	Common Cliffrose		Low	Sun
<i>Rhus trilobata</i>	Three-leaf Sumac		Low	Sun to shade
<i>Ribes cereum</i>	Wax Currant		Low	Sun to shade
<i>Rosa woodsii</i> var. <i>arizonica</i>	Wild Rose		Low to moderate	Sun to shade
<i>Sambucus racemosa</i>	Elderberry		Low to moderate	Sun to lt. shade
<i>Shepherdia rotundifolia</i>	Round-leaf Buffaloberry		Low	Sun
<i>Tetradymia canescens</i>	Horse-brush		Low	Sun to lt. shade
<i>Yucca angustifolia</i>	Narrow-leaf Yucca		Low	Sun
<i>Yucca baccata</i>	Banana Yucca		Low	Sun

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Yarrow		Moderate	Sun to lt. shade
<i>Antennaria parvifolia</i>	Pussytoes		Moderate	Shade to sun
<i>Antennaria rosulata</i>	Little-leaf Pussytoes		Low to moderate	Sun
<i>Artemisia ludoviciana</i>	Louisiana Sagebrush		Low	Sun
<i>Aster falcatus</i>	Small White Aster		Low to moderate	Sun to lt. shade
<i>Calochortus ambiguus</i>	Sego Lily		Low to moderate	Sun to lt. shade
<i>Erigeron speciosus</i>	Fleabane		Low to moderate	Sun to shade
<i>Eriogonum jamesii</i>	Antelope Sage		Low	Sun to lt. shade
<i>Eriogonum jamesii</i> var. <i>flavescens</i>	Golden Antelope Sage		Low	Sun to lt. shade
<i>Eriogonum racemosum</i>	Red-root Buckwheat		Low to moderate	Sun to shade
<i>Eriogonum umbellatum</i>	Sulfur Buckwheat		Low	Sun to lt. shade
<i>Eriogonum wrightii</i>	Wright's Buckwheat		Low	Sun to lt. shade
<i>Erysimum capitatum</i>	Western Wallflower		Low to moderate	Shade to sun
<i>Erysimum wheeleri</i>	Wheeler's Wallflower		Low to moderate	Shade to sun

<i>Gaillardia pinnatifida</i>	Blanketflower		Low	Sun
<i>Geranium caespitosum</i>	Purple Geranium		Low to moderate	Sun to shade
<i>Geum triflorum</i>	Old Man's Whiskers		Low to moderate	Sun to shade
<i>Heterotheca villosa</i>	Jones' Goldenaster		Low	Sun to lt. shade
<i>Heuchera</i> sp.	Alum Root or Coral Bells		Low to moderate	Shade to sun (w/more water)
<i>Hymenopappus filifolius</i>	Fine-leaf Woollywhite		Low	Sun to lt. shade
<i>Hymenopappus mexicanus</i>	Mexican Woollywhite		Low	Sun
<i>Hymenoxys richardsonii</i>	Richardson's Goldflower		Low	Sun
<i>Ipomopsis aggregata</i>	Skyrocket		Low	Sun
<i>Iris missouriensis</i>	Western Blue Flag		Moderate to high	Sun
<i>Linanthastrum nuttallii</i>	Mountain Phlox		Moderate	Shade to lt. sun
<i>Lithospermum multiflorum</i>	Puccoon		Low to moderate	Sun to shade
<i>Lupinus argenteus</i>	Silvery Lupine		Low	Sun to shade
<i>Machaeranthera canescens</i>	Hoary Aster		Low	Sun to lt. shade
<i>Macromeria viridiflora</i>	Pearlseed		Low to moderate	Sun to shade
<i>Melampodium leucanthum</i>	Blackfoot Daisy		Low	Sun
<i>Mirabilis multiflora</i>	Wild Four-O'clock		Low	Sun
<i>Monardella odoratissima</i>	Coyote Mint		Low to moderate	Sun to lt. shade
<i>Oenothera caespitosa</i>	Tufted Evening-Primrose		Low	Sun
<i>Oenothera hookeri</i>	Hooker's Evening-Primrose		Low to moderate	
<i>Oenothera runcinata</i>	Cutleaf Evening-Primrose		Low	Sun
<i>Oxytropis lambertii</i>	Lambert's Locoweed		Low	Sun to lt. shade
<i>Penstemon barbatus</i>	Scarlet Bugler		Low to moderate	Shade to sun
<i>Penstemon clutei</i>	Sunset Crater Penstemon		Low to moderate	Sun
<i>Penstemon jamesii</i>	James' Penstemon		Low	Sun
<i>Penstemon linarioides</i>	Mat Penstemon		Low to moderate	Sun to lt. shade
<i>Penstemon nudiflorus</i>	Flagstaff Penstemon		Low	Sun to lt. shade
<i>Penstemon palmeri</i>	Palmer's Penstemon		Low	Sun to lt. shade
<i>Penstemon pseudospectabilis</i>	Royal Penstemon		Low to moderate	Sun to lt. shade
<i>Penstemon rostriflorus</i>	Bridges' Penstemon		Low to moderate	Sun to shade
<i>Penstemon virgatus</i>	Wand Penstemon		Low to moderate	Sun to lt. shade
<i>Pericome caudata</i>	Taperleaf		Low to moderate	Sun to lt. shade
<i>Phlox woodhousei</i>	Woodhouse's Phlox		Low to moderate	Sun to lt. shade
<i>Potentilla hippiana</i>	Silvery Cinquefoil		Low to moderate	Sun to shade
<i>Potentilla subviscosa</i>	Clubleaf Cinquefoil		Low to moderate	Sun to shade
<i>Psilostrophe sparsiflora</i>	Paperflower		Low	Sun

<i>Psilostrophe tagetina</i>	Paperflower		Low	Sun
<i>Senecio multicapitatus</i>	Axhead Groundsel		Low	Sun
<i>Senecio multilobatus</i>	Basin Butterweed		Low	Sun to lt. shade
<i>Senecio spartioides</i>	Broom Groundsel	2-1/2' x 2'	Low	Sun
<i>Sidalcea neomexicana</i>	Alkali Checkerbloom		Moderate to high	Sun
<i>Solidago canadensis</i>	Canada Goldenrod		Low to moderate	Sun to shade
<i>Solidago sparsiflora</i>	Goldenrod		Low to moderate	Sun to shade
<i>Solidago wrightii</i>	Wright's Goldenrod		Low to moderate	Sun to shade
<i>Sphaeralcea parvifolia</i>	Apricot Mallow		Low	Sun
<i>Sphaeralcea coccinea</i>	Cowboy's Delight		Low	Sun
<i>Thalictrum fendleri</i>	Mountain Meadow Rue		Low to moderate	Shade to sun
<i>Thermopsis pinetorum</i>	Golden Banner		Moderate	Sun to shade
<i>Viguiera multiflora</i>	Showy Goldeneye		Low	Sun
<i>Zinnia grandiflora</i>	Prairie Zinnia		Low	Sun

Grasses & Sedges:

<i>Andropogon gerardii</i>	Big Bluestem		Low	Sun
<i>Aristida purpurea</i>	Purple Three-Awn		Low	Sun
<i>Blepharoneuron tricholepis</i>	Pine Dropseed		Low to moderate	Lt. shade to sun
<i>Bouteloua curtipendula</i>	Sideoats Grama		Low	Sun to lt. shade
<i>Bouteloua eriopoda</i>	Black Grama		Low	
<i>Bouteloua gracilis</i>	Blue Grama		Low to moderate	Sun to lt. shade
<i>Buchloe dactyloides</i>	Buffalograss		Low to moderate	Sun
<i>Carex sp.</i>	Sedges		Varies	Sun
<i>Elymus smithii</i>	Smith's Wheatgrass		Low to moderate	Sun to lt. shade
<i>Festuca arizonica</i>	Arizona Fescue		Low to moderate	Sun to shade
<i>Hilaria jamesii</i>	Galleta		Low	Sun to lt. shade
<i>Muhlenbergia montana</i>	Mountain Muhly		Low	Sun to lt. shade
<i>Muhlenbergia wrightii</i>	Spike Muhly		Low	Sun
<i>Oryzopsis hymenoides</i>	Indian Ricegrass		Low	Sun
<i>Poa arida</i>	Plains Bluegrass		Low	Sun to lt. shade
<i>Poa fendlerana</i>	Muttongrass		Low to moderate	Shade to sun
<i>Schizachryium scoparium</i>	Little Bluestem		Low	Sun to lt. shade
<i>Sorghastrum nutans</i>	Indian Grass		Low to moderate	Sun
<i>Sporobolus airoides</i>	Alkali Sacaton		Low	Sun
<i>Sporobolus cryptandrus</i>	Sand Dropseed		Low	Sun
<i>Sporobolus interruptus</i>	Black Dropseed		Low to moderate	Sun
<i>Stipa robusta</i>	Sleepygrass		Low	Sun

Streamside and Moist Canyon Habitat

Use plants from this list for landscapes in streamside areas with sloping, shaded canyons and in other areas or microclimates with northern exposures, morning Sun to partial shade, and sloping soils in irrigated gardens. Communities on the Plateau with these conditions (in Zone 4 or warmer (minimum temperature –30 to –20 degrees)), at all elevations include Cheshire, Rio de Flag drainage, Oak Creek, protected areas of Sinclair Wash, and partially shaded, canyon-like areas.

Trees:

<i>Acer glabrum</i>	Rocky Mountain Maple		Moderate	Sun to lt. shade
<i>Acer grandidentatum</i>	Big-leaf Maple		Moderate to high	Sun to lt. shade
<i>Acer negundo</i> var. <i>interius</i>	Box Elder		Moderate to high	Sun to shade
<i>Alnus oblongifolia</i>	Arizona alder		Moderate to high	Sun to lt. shade
<i>Betula occidentalis</i>	Western Water Birch		Moderate to high	Sun to lt. shade
<i>Celtis reticulata</i>	Western Hackberry		Low to moderate	Sun to lt. shade
<i>Juglans major</i>	Arizona walnut		Low to moderate	Sun to lt. shade
<i>Platanus racemosa</i> var. <i>wrightii</i>	Arizona Sycamore		Moderate to high	Sun to lt. shade
<i>Populus angustifolia</i>	Narrow-leaf Cottonwood		Moderate to high	Sun
<i>Ptelea angustifolia</i>	Hop		Moderate	Sun to lt. shade
<i>Quercus gambelli</i>	Gambel Oak		Low	Sun to lt. shade
<i>Salix exigua</i>	Coyote Willow		Low to moderate	Sun to lt. shade
<i>Salix geyeriana</i>	Geyer's Willow			Sun to lt. shade
<i>Salix gooddingii</i>	Goodding's Willow			Sun to lt. shade
<i>Salix laevigata</i>	Red Willow		Moderate	Sun to lt. shade
<i>Salix lasiandra</i>	Pacific Willow		Moderate	Sun to lt. shade
<i>Salix lasiolepis</i>	Arroyo Willow		Moderate	Sun to lt. shade
<i>Salix scouleriana</i>	Scouler's Willow		Low to moderate	Sun to lt. shade

Vines:

<i>Clematis ligusticifolia</i>	Virgin's Bower		Low to moderate	Sun to shade
<i>Parthenocissus inserta</i>	Western Virginia Creeper		Low to moderate	Sun to shade
<i>Vitis arizonica</i>	Arizona Grape		Low to moderate	Sun to shade

Shrubs:

<i>Amelanchier utahensis</i>	Utah Serviceberry		Low	Sun to lt. shade
<i>Lonicera arizonica</i>	Arizona Honeysuckle		Low	Sun to shade
<i>Pachystima myrsinites</i>	Mountain Lover		Low to moderate	Shade to sun
<i>Rhamnus californica</i>	California Coffeeberry		Low	Sun to shade

<i>Rosa woodsii</i> var. <i>arizonica</i>	Arizona Rose		Low	Sun to shade
<i>Rubus neomexicanus</i>	New Mexican Raspberry		Low to moderate	Sun to shade
<i>Shepherdia argentea</i>	Silver Buffaloberry		Low	Sun to lt. shade
<i>Symphoricarpos parishii</i>	Snowberry		Low	Shade to sun

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Yarrow		Low to moderate	Sun to lt. shade
<i>Agrimonia gryposepala</i> & <i>striata</i>	Agrimony		Low to moderate	Shade to sun
<i>Aquilegia chrysantha</i>	Golden Columbine		Low to moderate	Shade to sun
<i>Aquilegia desertorum</i>	Desert Columbine		Low	Shade to sun
<i>Aquilegia elegantula</i>	Columbine		Low	Shade to sun
<i>Helianthella quinquenervis</i>	Five-veined Sunflower		Low to moderate	Sun to lt. shade
<i>Heuchera</i> sp.	Coral Bells, Alum Root		Low to moderate	Shade to sun (with more water)
<i>Hypericum formosum</i>	Wild St. Johnswort		Moderate to high	Sun to lt. shade
<i>Iris missouriensis</i>	Western Blue Flag		Moderate to high	Sun
<i>Lobelia cardinalis</i>	Cardinalflower		Moderate to high	Sun to shade
<i>Mimulus cardinalis</i>	Scarlet Monkeyflower		Moderate to high	Sun to lt. shade
<i>Mimulus guttatus</i>	Yellow-stream Monkeyflower		Moderate to high	Sun
<i>Monarda menthaefolia</i>	Beebalm		Moderate	Sun
<i>Penstemon bridgesii</i>	Bridges' Penstemon		Low to moderate	Sun to lt. shade
<i>Polygonum bistortoides</i>	Western Bistort		Moderate to high	Sun
<i>Rudbeckia laciniata</i>	Cutleaf Coneflower		Moderate to high	Sun to lt. shade
<i>Sedum cockerellii</i>	Cockerell's Sedum		Low	Shade to sun
<i>Senecio hartianus</i>	Hart's Groundsel		Low to moderate	Sun to shade
<i>Sidalcea neomexicana</i>	Alkali Checkerbloom		Moderate to high	Sun
<i>Silene laciniata</i>	Catchfly		Low to moderate	Shade to sun
<i>Sisyrinchium demissum</i>	Blue-eyed Grass		Moderate to high	Sun
<i>Valeriana arizonica</i>	Arizona Valerian		Moderate	Shade to sun
<i>Valeriana edulis</i>	Valerian		Moderate	Shade to sun
<i>Valeriana occidentalis</i>	Western Valerian		Moderate	Shade to sun
<i>Vicia americana</i>	American Vetch		Low to moderate	Sun
<i>Wyethia arizonica</i>	Mules' Ears		Low to moderate	Sun to lt. shade



Grasses and Sedges:

Carex sp.	Sedge		Varies	Sun to lt. shade
Muhlenbergia minutissima	Minute Muhly		Moderate to high	Sun
Muhlenbergia richardsonis	Mat Muhly		Moderate	Sun
Muhlenbergia rigens	Deergrass		Moderate	Sun
Muhlenbergia wrightii	Spike Muhly		Low	Sun
Panicum scribnerianum	Panicgrass		Low to moderate	Sun to shade
Poa arida	Plains Bluegrass		Low	Sun to shade
Poa fendlerana	Muttongrass		Low to moderate	Shade to sun
Schizachryium scoparium	Little Bluestem		Low	Sun to lt. shade
Sorghastrum nutans	Indiangrass		Low to moderate	Sun

*Mid-elevation Sunny Meadow Habitat*

Use plants from this list for landscapes in open, sunny areas with flat, y topography in Zone 4 or warmer (minimum temperature –20 to –30 degrees), at elevations between 6000 and 7500’ on the Plateau and in other areas or microclimates with full Sun to and moderate moisture in irrigated gardens. Northern Arizona communities include Sinclair Wash, Cheshire, Munds Park.

Shrubs:

Chrysothamnus molestus	Rabbitbrush		Low	Sun to lt. shade
Chrysothamnus nauseosus	Rabbitbrush		Low	Sun to lt. shade
Hymenoxys richardsonii	Richardson’s Goldflower		Low	Sun
Potentilla fruticosa	by Cinquefoil		Low	Sun to lt. shade
Ribes cereum	Wax Currant		Low	Sun to shade
Rosa arizonica	Arizona Rose		Low	Sun to lt. shade

Perennials:

Achillea millefolium var. lanulosa	Yarrow		Low	Sun to lt. shade
Antennaria rosulata	Little-leaf Pussytoes		Low	Sun
Arenaria fendleri	Fendler’s Sandwort		Low	Sun to lt. shade
Aster falcatus	Small White Aster		Low	Sun to shade
Bahia dissecta	Goldflower		Low	Sun
Castilleja sp.	Indian Paintbrush		Low	Sun
Cirsium wheeleri	Wheeler’s Thistle		Low	Sun to lt. shade
Geranium richardsonii	Richardson’s Geranium		Low	Sun
Heuchera sp.	Alum Root or Coral Bells		Low	Sun to shade
Iris missouriensis	Western Blue Flag		Moderate to high	Sun
Linum lewisii	Blue Flax		Low	Sun
Machaeranthera canescens	Hoary Purple Aster		Low	Sun to shade
Mirabilis linearis	Wild Four O’Clock		Low	Sun
Oenothera flava var. taraxioides	Dandelion-leaf Evening-Primrose		Moderate	Sun
Oenothera hookeri	Hooker’s Evening-Primrose		Moderate	Sun to lt. shade
Penstemon virgatus	Wand Penstemon		Low	Sun to lt. shade
Potentilla crinita	Cinquefoil		Low	Sun to lt. shade
Potentilla hippiana	Silvery Cinquefoil		Low	Sun to lt. shade
Pseudocymopterus montanus	Wild Mountain Parsley		Low	Sun to shade
Senecio spartioides	Broom Groundsel		Low	Sun
Viguiera multiflora	Showy Goldeneye		Low	Sun

Grasses and Sedges:

Blepharoneuron tricholepis	Pine Dropseed		Low	Sun to shade
Bouteloua gracilis	Blue Grama		Low	Sun to lt. shade
Bouteloua simplex	Mat Grama		Low	Sun
Buchloe dactyloides	Buffalograss		Low	Sun
Carex sp.	Sedge		Varies	Sun to lt. shade
Festuca arizonica	Arizona Fescue		Low	Sun to shade
Muhlenbergia montana	Mountain Muhly		Low	Sun to lt. shade
Muhlenbergia richardsonis	Mat Muhly		Low to moderate	Sun
Muhlenbergia rigens	Deergrass		Low	Sun to lt. shade
Muhlenbergia wrightii	Spike Muhly		Low	Sun
Munroa squarrosa	False Buffalo		Low	Sun

*Ephemeral Streams and Seasonal Runoff*

Use plants from this list for landscapes at all elevations on the plateau in ephemeral streams or areas of high seasonal runoff in Zone 4 or warmer (minimum temperature – 20 to –30 degrees), and in other areas or microclimates with spring and summer seasonal inundation, and in areas of high-water use in irrigated gardens.

Trees:

Acer grandidentatum	Big-tooth Maple		Moderate	Sun to lt. shade
Acer glabrum	Rocky Mountain Maple		Low to moderate	Sun to lt. shade
Acer negundo	Box Elder		Low to moderate	Sun to shade
Salix sp.	Willow		Low to moderate	Sun to lt. shade
Populus fremonti	Fremont Cottonwood		Low to moderate	Sun
Platanus wrightii var. arizonica	Western Sycamore		Moderate to high	Sun
Pseudotsuga menziesii var. glauca	Rocky Mountain Douglas Fir		Low to moderate	Sun to shade
Robinia neomexicana	New Mexico Locust		Low	Sun to shade

Shrubs:

Cornus stolonifera	Red-twig Dogwood		Moderate	Sun to shade
Monarda menthaefolia	Bee Balm		Moderate	Sun
Rosa arizonica	Arizona Rose		Low	Sun to shade
Rubus neomexicanus	New Mexico Raspberry		Low	Sun to lt. shade
Amelanchier utahensis	Utah Serviceberry		Low	Sun to shade
Rhamnus californica	California Coffeeberry		Low	Shade to sun

Vines:

<i>Clematis ligusticifolia</i>	Virgin's Bower		Low	Shade to sun
<i>Humulus americanus</i>	Wild Hops		Moderate	Sun to lt. shade
<i>Lonicera arizonica</i>	Arizona Honeysuckle		Low to moderate	Shade to sun
<i>Parthenocissus inserta</i>	Western Virginia Creeper		Low to moderate	Sun to shade
<i>Vitis arizonica</i>	Wild Grape		Low to moderate	Shade to sun

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Yarrow		Low to moderate	Sun to lt. shade
<i>Agrimonia gryposepala</i>	Agrimony		Low to moderate	Sun to shade
<i>Asclepias speciosa</i>	Milkweed		Low to moderate	Sun
<i>Aster hesperius</i>	Aster		Moderate to high	Sun to lt. shade
<i>Helinathella quinquenervis</i>	Five-vein Sunflower		Low to moderate	Sun to lt. shade
<i>Hypericum formosum</i>	Western St. Johnswort		Moderate to high	Sun
<i>Iris missouriensis</i>	Western Blue Flag		Moderate to high	Sun
<i>Mimulus guttatus</i>	Yellow Stream Monkeyflower		Moderate to high	Sun
<i>Polygonum bistortoides</i>	Western Bistort		Moderate to high	Sun
<i>Potentilla thurberi</i>	Thurber's Cinquefoil		Low to moderate	Sun to shade
<i>Rudbeckia laciniata</i>	Cut-leaf Coneflower		Moderate to high	Sun to shade
<i>Senecio hartianus</i>	Hart's Groundsel		Low to moderate	Sun to shade
<i>Sidalcea neomexicana</i>	Alkali Checkerbloom		Moderate to high	Sun
<i>Silene laciniata</i>	Catchfly		Low to moderate	Sun to lt. shade
<i>Sisyrinchium demissum</i>	Blue-eyed Grass		Moderate to high	Sun
<i>Thermopsis montana</i>	Golden Banner		Low to moderate	Shade to sun
<i>Valeriana arizonica</i>	Arizona Valerian		Low to moderate	Sun to shade
<i>Valeriana edulis</i>	Valerian		Low to moderate	Sun to shade
<i>Valeriana occidentalis</i>	Western Valerian		Low to moderate	Sun to shade
<i>Wyethia arizonica</i>	Mules' Ears		Low to moderate	Sun to lt. shade

Grasses & Sedges:

<i>Carex</i> sp.	Sedge		Varies	Sun to lt. shade
<i>Muhlenbergia rigens</i>	Deergrass		Low to moderate	Sun to lt. shade

Chaparral Habitat

Use plants from this list for landscapes in areas in Zone 6 or warmer (minimum temperature 0 to –10 degrees F) characterized by Chaparral at elevations from 4000 to 6800’, and in other areas or microclimates with warm, well-drained, seasonally dry soils. Northern Arizona communities include Sedona, Payson and dry, “warm” areas with moderately long growing seasons.

Trees:

Cupressus arizonica var. glabra	Arizona Cypress		Low	Sun
Fraxinus anomala	Singleleaf Ash		Low	Sun to lt. shade
Fraxinus velutina	Velvet Ash		Low to moderate	Sun
Juglans major	Arizona Walnut		Low to moderate	Sun
Juniperus osteosperma	Utah Juniper		Low	Sun
Pinus edulis	Pinyon Pine		Low	Sun
Pinus monophylla	Singleleaf Pinyon		Low	Sun
Pinus ponderosa var. scopulorum	Ponderosa Pine		Low to moderate	Sun
Platanus wrightii var. arizonica	Arizona Sycamore		Moderate to high	Sun to lt. shade
Populus fremontii	Fremont Cottonwood		Moderate to high	Sun
Ptelea trifoliata	Hop		Low to moderate	Sun to lt. shade
Quercus arizonica	Arizona White Oak		Low to moderate	Sun
Quercus chrysolepis	Canyon live oak		Low	Sun to lt. shade
Quercus dunnii	Palmer Oak		Low	Sun to lt. shade
Quercus gambelli	Gambel Oak		Low to moderate	Sun to lt. shade
Quercus turbinella	Live Oak		Low	Sun
Salix amygdaloides	Peachleaf Willow		Moderate to high	Sun to lt. shade
Salix bonplandiana	Red Willow			Sun to lt. shade
Salix goodingii	Gooding Willow			Sun

Shrubs:

Acacia greggii var. arizonica	Catclaw		Low	Sun
Agave parryi	Parry’s Agave		Low	Sun to lt. shade
Arctostaphylos pringlei	Pringle’s manzanita		Low	Sun to lt. shade
Arctostaphylos pungens	Mexican manzanita		Low	Sun to lt. shade
Atriplex canescens	Fourwing Saltbush		Low	Sun
Baccharis sarothroides	Desert Broom		Low	Sun
Mahonia haematocarpa	Red Barberry		Low	Sun

<i>Canotia holacantha</i>	Canotia		Low	Sun
<i>Catalpa speciosa</i>	Hardy Catalpa		Low to moderate	Sun
<i>Ceanothus fendleri</i>	Fendler's Buckbrush		Low to moderate	Sun to shade
<i>Ceanothus greggii</i>	Buckbrush		Low	Sun
<i>Ceanothus integerrimus</i>	Deerbrush		Low to moderate	Sun to lt. shade
<i>Cercocarpus betuloides</i>	Mountain Mahogany		Low	Sun
<i>Cercocarpus montanus</i> var. <i>montanus</i>	Alderleaf Mountain-Mahogany		Low	Sun
<i>Chilopsis linearis</i>	Desert Willow		Moderate	Sun
<i>Dalea formosa</i>	Feather dalea		Low	Sun
<i>Ephedra viridis</i>	Green jointfir, Mormon Tea		Low	Sun
<i>Eriodictyon angustifolium</i>	Yerba mansa		Low to moderate	Sun
<i>Eriogonum fasciculatum</i> var. <i>polifolium</i>	Flat-Top Buckwheat		Low	Sun to lt. shade
<i>Eriogonum jamesii</i>	Antelope-Sage		Low	Sun
<i>Fallugia paradoxa</i>	Apache Plume		Low	Sun
<i>Fendlera rupicola</i>	False Mock-Orange		Low	Sun to lt. shade
<i>Forestiera neomexicana</i>	Desert Olive		Low	Sun
<i>Forsellesia nevadensis</i>	Greasebush		Low	Sun
<i>Fouquieria splendens</i>	Ocotillo		Low	Sun
<i>Garrya flavescens</i>	Quininebush, Yellow-leaf Silktassel		Low	Sun to lt. shade
<i>Garrya wrightii</i>	Wright's Silktassel		Low	Sun to lt. shade
<i>Juniperus monosperma</i>	One-seed Juniper		Low	Sun
<i>Larrea tridentata</i>	Creosote Bush		Low	Sun
<i>Lycium pallidum</i>	Wolfberry, Rabbitthorn		Low	Sun
<i>Mimosa biuncifera</i>	Wait-a-Minute, Catclaw Mimosa		Low	Sun
<i>Nolina microcarpa</i>	Bear		Low	Sun
<i>Prosopis velutina</i>	Velvet Mesquite		Low	Sun
<i>Purshia stansburiana</i>	Cliffrose		Low	Sun
<i>Rhamnus californica</i>	California Coffeeberry		Low	Sun to shade
<i>Rhamnus crocea</i> var. <i>ilicifolia</i>	Hollyleaf Buckthorn		Low	Sun to lt. shade
<i>Rhus glabra</i>	Smooth Sumac		Low to moderate	Sun to lt. shade
<i>Rhus ovata</i>	Sugarbush		Low	Sun
<i>Rhus trilobata</i>	Three-leaf Sumac		Low	Sun to lt. shade
<i>Robinia neomexicana</i>	New Mexico Locust		Low	Sun to lt. shade
<i>Salix exigua</i>	Coyote Willow		Low to moderate	Sun

<i>Salvia dorrii</i>	Desert Sage		Low	Sun
<i>Symphoricarpos parishii</i>	Parish's Snowberry		Low	Shade to sun
<i>Symphoricarpos rotundifolius</i>	Roundleaf Snowberry		Low	Shade to sun
<i>Yucca baccata</i>	Banana Yucca		Low	Sun
<i>Yucca elata</i>	Soap Yucca		Low	Sun

Vines:

<i>Clematis ligusticifolia</i>	Virgin's Bower		Low to moderate	Shade
<i>Humulus americanus</i>	Wild Hops		Moderate	Sun to shade
<i>Parthenocissus inserta</i>	Wild Virginia Creeper		Low to moderate	Sun to shade
<i>Vitis arizonica</i>	Arizona Grape		Low to moderate	Sun to lt. shade

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Western Yarrow		Low to moderate	Sun to lt. shade
<i>Anemone tuberosa</i>	Desert Windflower		Low to moderate	Sun
<i>Aquilegia chrysantha</i>	Golden Columbine		Low to moderate	Shade to sun
<i>Artemisia dracunculoides</i>	False Tarragon		Low	Sun
<i>Artemisia ludoviciana</i>	Louisiana sagebrush		Low	Sun to lt. shade
<i>Asclepias tuberosa</i>	Milkweed		Low	Sun to lt. shade
<i>Aster falcatus</i>	Small White Aster		Low to moderate	Sun to shade
<i>Baileya multiradiata</i>	Desert Marigold		Low	Sun
<i>Brickellia californica</i>	California Brickellia		Low	Sun to shade
<i>Calochortus flexuosus</i>	Mariposa-Lily		Low to moderate	Sun
<i>Castilleja chromosa</i>	Indian paintbrush		Low to moderate	Sun
<i>Chrysopsis foliosa</i>	Golden Aster		Low to moderate	Sun
<i>Cirsium arizonicum</i>	Arizona Thistle		Low to moderate	Sun to lt. shade
<i>Cirsium neomexicanum</i>	New Mexico Thistle		Low to moderate	Sun to lt. shade
<i>Commelina dianthifolia</i>	Dayflower	1' x spreading	Low to moderate	Sun to shade
<i>Cymopterus multinervatus</i>	Purple Cymopterus		Low	Sun
<i>Datura innoxia</i>	Sacred Datura		Low	Sun
<i>Delphinium scaposum</i>	Barestem Larkspur		Low	Sun to shade
<i>Dichelostemma pulchellum</i>	Blue Dicks		Low to moderate	Sun
<i>Erigeron flagellaris</i>	Whiplash Daisy		Low to moderate	Sun to shade
<i>Eriogonum jamesii</i> var. <i>flavescens</i>	Yellow Antelope Sage		Low	Sun
<i>Eriogonum wrightii</i>	Wright's Wild Buckwheat		Low	Sun
<i>Erysimum asperum</i>	Wallflower		Low to moderate	Shade to sun

<i>Erysimum wheeleri</i>	Wheeler's Wallflower		Low to moderate	Shade to sun
<i>Gaillardia pinnatifida</i>	Blanketflower		Low	Sun
<i>Hedeoma oblongifolium</i>	Mock Pennyroyal		Low to moderate	Sun to lt. shade
<i>Heterotheca villosa</i>	Hairy Golden-aster		Low	Sun to lt. shade
<i>Heuchera</i> sp.	Alum Root or Coral Bells		Low to moderate	Shade to sun (with more water)
<i>Hymenopappus filifolius</i>	Threadleaf Woollywhite		Low	Sun
<i>Hymenoxys acaulis</i> var. <i>arizonica</i>	Perky Sue		Low	Sun
<i>Hymenoxys cooperi</i>	Cooper Actinea		Low	Sun
<i>Ipomopsis longiflora</i>	Longflower Gilia		Low to moderate	Sun
<i>Ipomopsis multiflora</i>	Many-flowered Gilia		Low to moderate	Sun
<i>Kallstroemia grandiflora</i>	Arizona Caltrop		Low	Sun
<i>Lesquerella arizonica</i>	Arizona Bladderpod		Low	Sun
<i>Lesquerella gordonii</i>	Gordon Bladderpod		Low	Sun
<i>Leucelene ericoides</i>	White Aster		Low	Sun
<i>Melampodium leucanthum</i>	Blackfoot Daisy		Low	Sun
<i>Menodora scabra</i>	Rough menodora		Low	Sun
<i>Mirabilis linearis</i>	Narrow-leaf Four-O'clock		Low	Sun
<i>Mirabilis multiflora</i>	Colorado Four O'clock		Low	Sun
<i>Monarda menthaefolia</i>	Beebalm		Low to moderate	Sun to lt. shade
<i>Oenothera albicaulis</i>	Prairie Evening-primrose		Low	Sun
<i>Oenothera caespitosa</i> var. <i>marginata</i>	Large White Desert-Primrose		Low	Sun
<i>Oenothera hookeri</i>	Hooker's Evening-Primrose		Low to moderate	Sun to lt. shade
<i>Oenothera pallida</i>	Pale Evening-Primrose		Low	Sun
<i>Penstemon barbatus</i>	Scarlet Bugler		Low to moderate	Shade to sun
<i>Penstemon eatonii</i>	Eaton's Firecracker		Low	Sun
<i>Penstemon jamesii</i> ssp. <i>ophianthus</i>	James' Penstemon		Low	Sun
<i>Penstemon linarioides</i>	Mat Penstemon		Low to moderate	Sun to lt. shade
<i>Penstemon palmeri</i>	Fragrant Penstemon		Low	Sun
<i>Penstemon rostriflorus</i>	Bridges' Penstemon		Low to moderate	Lt. shade to sun
<i>Penstemon thurberi</i>	Thurber Penstemon		Low	Sun
<i>Senecio douglasii</i> var. <i>longilobus</i>	Threadleaf Groundsel		Low	Sun
<i>Solanum xanti</i>	Purple Nightshade		Low	Sun
<i>Solidago sparsiflora</i>	Goldenrod		Low to moderate	Sun to shade



<i>Solidago wrightii</i>	Wright Goldenrod		Low to moderate	Sun to lt. shade
<i>Sphaeralcea fendleri</i>	Fendler Globemallow		Low	Sun
<i>Sphaeralcea grossulariaefolia</i>	Gooseberry Gloemallow		Low	Sun
<i>Sphaeralcea parviflora</i>	Littleleaf Globemallow		Low	Sun
<i>Thalictrum fendleri</i>	Meadow Rue		Low to moderate	Shade to sun
<i>Thelesperma subnudum</i>	Navajo Tea		Low	
<i>Townsendia incana</i>	Easter Daisy		Low	Sun
<i>Tradescantia occidentalis</i>	Western Spiderwort		Low to moderate	Sun to lt. shade

Cacti:

<i>Coryphantha vivipara</i> var. <i>arizonica</i>	Beehive Cactus		Low	Sun
<i>Echinocereus triglochidatus</i>	Claretcup Cactus		Low	Sun
<i>Opuntia chlorotica</i>	Pancake-pear		Low	Sun
<i>Opuntia leptocaulis</i>	Desert Christmas Cactus		Low	Sun
<i>Opuntia phaeacantha</i> var. <i>discata</i>	Engelmann Pricklypear		Low	Sun
<i>Opuntia phaeacantha</i> var. <i>major</i>	Purplefruit Pricklypar		Low	Sun

Annual and Biennial Wildflowers:

<i>Calandrinia ciliata</i> var. <i>menziesii</i>	Red Maids		Low to moderate	Sun
<i>Cleome lutea</i> var. <i>jonesii</i>	Yellow beeplant		Low	Sun
<i>Corydalis aurea</i> ssp. <i>occidentalis</i>	Golden Corydalis		Low	Sun to lt. shade
<i>Erigeron divergens</i>	Spreading Fleabane		Low	Sun to lt. shade
<i>Gaura coccinea</i>	Scarlet Gaura		Low	Sun
<i>Helianthus annuus</i>	Sunflower		Low	Sun
<i>Ipomopsis aggregata</i>	Skyrocket		Low to moderate	Sun
<i>Layia glandulosa</i>	Tidy Tips		Low	Sun
<i>Linum puberulum</i>	Plains Flax		Low	Sun
<i>Lupinus concinnus</i>	Elegant Lupine		Low	Sun
<i>Machaeranthera gracilis</i>	Slender Goldenbush		Low	Sun
<i>Mentzelia pumila</i>	Blazing Star, Stickleaf		Low	Sun
<i>Orthocarpus purpurascens</i> var. <i>palmeri</i>	Mohave Owlclover		Moderate	Sun
<i>Silene antirrhina</i>	Sleepy Catchfly		Low	Sun

<i>Viguiera annua</i>	Annual Goldflower		Low	Sun
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Grasses & Sedges:

<i>Andropogon saccharoides</i>	Silver Canegrass		Low	Sun
<i>Aristida divaricata</i>	Poverty Three-awn		Low	Sun
<i>Aristida purpurea</i>	Purple Three-awn		Low	Sun
<i>Bothriochloa barbinodis</i>	Cane Bluestem		Low	Sun
<i>Bouteloua curtipendula</i>	Side-oats Grama		Low	Sun to lt. shade
<i>Bouteloua eriopoda</i>	Black Grama		Low	Sun
<i>Buchloe dactyloides</i>	Buffalograss		Low	Sun
<i>Carex senta</i>	River Sedge		Moderate to high	Sun to lt. shade
<i>Eragrostis intermedia</i>	Plains Lovegrass		Low to moderate	Sun
<i>Koeleria pyramidata</i>	Junegrass		Low to moderate	Shade to sun
<i>Muhlenbergia porteri</i>	Bush Muhly		Low	Sun to lt. shade
<i>Muhlenbergia emersleyi</i>	Muhly		Low	Sun
<i>Muhlenbergia rigens</i>	Deergrass		Low to moderate	Sun to lt. shade
<i>Panicum capillare</i> var. <i>occidentale</i>	Witchgrass		Low to moderate	Sun to lt. shade
<i>Panicum virgatum</i>	Switchgrass		Low to moderate	Sun
<i>Poa fendleriana</i>	Muttongrass		Low to moderate	Shade to lt. sun
<i>Setaria macrostachya</i>	Bristlegrass		Low	Sun
<i>Sporobolus contractus</i>	Spike Dropseed		Low	Sun
<i>Sporobolus cryptandrus</i>	Sand Dropseed		Low	Sun

High Desert Grassland Habitat:

Use plants from this list in landscapes in windswept, sunny open areas of grass and low-growing forbs and shrubs characterized by well-drained, frequently dry soils with low fertility such as Leupp, Valle, Winona, Wupatki, Chino Valley, Winslow and Holbrook, and open areas in east Flagstaff along North 89A and similar areas throughout the region. These areas can often be quite cold in the evenings and winters.

Trees:

Cupressus arizonica	Arizona Cypress		Low	Sun
Forestiera neomexicana	New Mexico Privet		Low	Sun
Fraxinus velutina	Velvet Ash		Low to moderate	Sun
Juniperus monosperma	One-seed Juniper		Low	Sun to lt. shade
Juniperus osteosperma	Utah Juniper		Low	Sun to lt. shade
Juniperus scopulorum	Rocky Mountain Juniper		Low to moderate	Sun to lt. shade
Platanus wrightii	Arizona Sycamore		Moderate to high	Sun (with water)
Populus fremontii	Fremont Cottonwood		Moderate to high	Sun (with water)
Robinia neomexicana	New Mexico Locust		Low	Sun (with water)
Salix exigua	Coyote Willow		Low to moderate	Sun (with water)

Shrubs:

Amelanchier utahensis	Utah Serviceberry		Low	Sun to shade
Artemisia filifolia	Sand Sagebrush		Low	Sun
Artemisia frigida	Sagebrush		Low	Sun
Artemisia spp.	Sagebrushes		Low	Sun
Artemisia tridentata	Big Sagebrush		Low	Sun
Atriplex canescens	Fourwing Saltbrush		Low	Sun
Mahonia repens	Creeping Barberry		Low to moderate	Shade to lt. sun
Calliandra humilis	False-Mesquite		Low	Sun
Ceratoides lanatum	Winterfat		Low	Sun
Chrysothamnus nauseosus	Rabbitbrush		Low	Sun to lt. shade
Chrysothamnus viscidiflorus	Rabbitbrush		Low	Sun to lt. shade
Dalea frutescens	Black Indigobush		Low	Sun
Ephedra nevadensis	Mormon Tea		Low	Sun
Fallugia paradoxa	Apache Plume		Low	Sun
Forestiera neomexicana	Desert Olive		Low	Sun to lt. shade
Kuhnia rosmarinifolia	False Boneset		Low	Sun
Lycium andersoni	Desert Thorn		Low	Sun
Lycium pallidum	Pale Wolfberry		Low	Sun

<i>Mahonia fremontii</i>	Fremont Barberry		Low	Sun
<i>Mahonia haematocarpa</i>	Redberry Mahonia		Low	Sun
<i>Psoralea lanceolata</i>	Lemon Scurfpea		Low	Sun
<i>Purshia stansburiana</i>	Arizona Cliffrose		Low	Sun
<i>Purshia tridentata</i>	Antelope Bitterbush		Low	Sun
<i>Rhus trilobata</i>	Three-leaf Sumac		Low	Sun
<i>Ribes aureum</i>	Golden Currant		Low to moderate	Sun
<i>Ribes cereum</i>	Wax Currant		Low	Sun to shade
<i>Rosa woodsii</i>	Woods Rose		Low to moderate	Sun to shade
<i>Tetradymia canescens</i>	Horsebrush		Low	Sun to lt. shade

Vines:

<i>Maurandya antirrhiniflora</i>	Snapdragon		Low	Sun
<i>Maurandya wislizenii</i>	Netcup		Low	Sun

Perennials:

<i>Achillea millefolium</i> var. <i>lanulosa</i>	Yarrow		Low to moderate	Sun to lt. shade
<i>Allionia incarnata</i>	Allionia		Low	Sun
<i>Argemone</i> sp.	Prickly Poppy		Low	Sun
<i>Artemisia pacifica</i>	Pacific Sagebrush		Low	Sun
<i>Aster</i> spp.	Asters		Low to moderate	Sun to shade
<i>Astragalus lentiginosus</i>	Milkvetch		Low	Sun
<i>Atriplex confertiflora</i>	Shadscale		Low	Sun
<i>Brickellia californica</i>	Bricklebush		Low to moderate	Sun
<i>Castilleja integra</i> or <i>linariaefolia</i>	Paintbrush		Low to moderate	Sun
<i>Chrysopsis foliosa</i>	Golden Aster		Low	Sun
<i>Cirsium arizonicum</i>	Arizona Thistle		Low to moderate	Sun to lt. shade
<i>Cryptantha jamesii</i>	Cryptantha		Low	Sun to lt. shade
<i>Datura metaloides</i>	Sacred Datura		Low	Sun
<i>Delphinium scaposum</i>	Larkspur		Low to moderate	Sun to lt. shade
<i>Echinocereus</i>	Hedgehog Cactus		Low	Sun to lt. shade
<i>Echinocereus fendleri</i>			Low	
<i>Eriogonum racemosum</i>	Redroot Buckwheat		Low to moderate	Sun to shade
<i>Eriogonum</i> sp.	Wild Buckwheat		Low	Sun
<i>Erysimum capitatum</i>	Wallflower		Low to moderate	Shade to sun
<i>Gaillardia pinnatifida</i>	Blanketflower		Low	Sun
<i>Gaura coccinea</i>	Scarlet Gaura		Low	Sun

<i>Gaura gracilis</i>	Gaura		Low	Sun
<i>Geranium caespitosum</i>	Purple Geranium		Low to moderate	Sun to shade
<i>Hedeoma nana</i>	Mock-Pennyroyal		Low to moderate	Sun to lt. shade
<i>Helianthus petiolaris</i>	Sunflower			Sun
<i>Hyemopappus lugens</i>	Hymenopappus		Low	Sun
<i>Lesquerella arizonica</i>	Bladderpod		Low	Sun
<i>Lesquerella intermedia</i>	Bladderpod		Low	Sun
<i>Linum lewisii</i>	Blue Flax		Low	Sun
<i>Lithospermum multiflorum, incisum</i>	Puccoon		Low to moderate	Shade to sun
<i>Machaeranthera canescens</i>	Hoary Aster		Low	Sun to lt. shade
<i>Mamillaria sp.</i>	Pincushion Cactus		Low	Sun to lt. shade
<i>Melampodium leucanthum</i>	Blackfoot Daisy		Low	Sun
<i>Mirabilis multiflora</i>	Desert Four O'Clock		Low	Sun to lt. shade
<i>Monardella odoratissima</i>	Coyote Mint		Low to moderate	Sun to lt. shade
<i>Oenothera runcinata , boothi , caespitosa</i>	Evening-Primrose		Low	Sun
<i>Opuntia macrorhiza</i>	Plains Prickly Pear		Low	Sun to lt. shade
<i>Opuntia phaeacantha</i>	Engelmann Prickly Pear		Low	Sun to lt. shade
<i>Opuntia spp.</i>	Prickly Pears, Chollas		Low	Sun
<i>Opuntia whipplei</i>	Cholla		Low	Sun
<i>Oxybaphus linearis</i>	Oxybaphus		Low	Sun
<i>Oxytropis lambertii</i>	Lambert's Locoweed		Low	Sun to lt shade
<i>Penstemon ambiguus</i>	Phlox Penstemon		Low	Sun
<i>Penstemon barbatus</i>	Scarlet Bugler		Low to moderate	Sun to shade
<i>Penstemon jamesii</i>	James' Penstemon		Low	Sun
<i>Poliomenantha incana</i>	Rosemary Mint		Low	Sun
<i>Psilostrophe sparsiflora</i>	Paperflower		Low	Sun
<i>Psoralea sp.</i>	Scurf-peas		Low	Sun
<i>Ratibida sp.</i>	Coneflower		Low	Sun to lt. shade
<i>Senecio longilobus</i>	Groundsel		Low	Sun to lt. shade
<i>Senecio multicapitatus</i>	Ax-Head Groundsel		Low	Sun to lt. shade
<i>Senecio sp.</i>	Groundsel		Low	Sun
<i>Senecio spartioides</i>	Broom Groundsel		Low	Sun
<i>Solidago sparsiflora</i>	Desert Goldenrod		Low	Shad to sun

<i>Sphaeralcea grossulariaefolia, parviflora, fendleri, subhastata</i>	Globe Mallows		Low	Sun
<i>Stanleya pinnata</i>	Desert Plume		Low	Sun
<i>Townsendia incana</i>	Townsendia		Low	Sun
<i>Verbena wrightii</i>	Vervain		Low	Sun
<i>Viguiera multiflora</i>	Showy Goldeneye		Low	Sun
<i>Yucca elata</i>	Soap Yucca		Low	Sun
<i>Yucca glauca</i>	Soapweed		Low	Sun
<i>Zinnia grandiflora</i>	Prairie Zinnia		Low	Sun

Annual and Biennial Wildflowers:

<i>Bahia dissecta</i>	Goldflower		Low	Sun
<i>Cleome serrulata</i>	Rocky Mountain Beeplant		Low	Sun
<i>Helianthus spp.</i>	Sunflower		Low	Sun
<i>Ipomopsis aggregata</i>	Skyrocket		Low to moderate	Sun
<i>Ipomopsis longiflora</i>	Long-Flowered Gilly		Low to moderate	Sun
<i>Ipomopsis multiflora</i>	Blue Starflower		Low to moderate	Sun
<i>Mirabilis longiflora</i>	Angel's Trumpets		Low	Sun
<i>Lupinus kingii</i>	Lupine		Low	Sun
<i>Mentzelia albicaulis &amp; pumila</i>	Stickleaf		Low	Sun
<i>Monarda pectinata</i>	Beebalm		Low to moderate	Sun
<i>Phacelia crenulata</i>	Phacelia		Low	Sun

Grasses & Sedges:

<i>Agropyron smithii</i>	Western Wheatgrass		Low to moderate	Sun to lt. shade
<i>Andropogon gerardii</i>	Big Bluestem		Low	Sun
<i>Andropogon hallii</i>	Sand Bluestem		Low	Sun
<i>Aristida divaricata</i>	Poverty Three-awn		Low	Sun
<i>Aristida purpurea var. longiseta</i>	Red Three-Awn		Low	Sun
<i>Aristida purpurea var. purpurea</i>	Purple Three-Awn		Low	Sun
<i>Bothriochloa barbinodis</i>	Cane Bluestem		Low	Sun
<i>Bouteloua curtipendula</i>	Side-oats Grama		Low	Sun to lt. shade

<i>Bouteloua eriopoda</i>	Black Grama		Low	Sun
<i>Bouteloua gracilis</i>	Blue Grama		Low to moderate	Sun to lt. shade
<i>Bouteloua hirsuta</i>	Hairy Grama		Low	Sun
<i>Bouteloua chondrosoides</i>	Sprucetop Grama		Low	Sun
<i>Buchloe dactyloides</i>	Buffalograss		Low to moderate	Sun
<i>Carex senta</i>	River Sedge		Moderate to high	Sun to lt. shade
<i>Eragrostis intermedia</i>	Plains Lovegrass		Low to moderate	Sun
<i>Festuca arizonica</i>	Arizona Fescue		Low to moderate	Sun to shade
<i>Hilaria jamesii</i>	Galleta		Low	Sun
<i>Koeleria cristata</i>	Prairie Junegrass		Low to moderate	Sun to lt. shade
<i>Lycurus phleoides</i>	Wolftail, Texas Timothy		Low	Sun
<i>Muhlenbergia porteri</i>	Bush Muhly		Low	Sun to lt. shade
<i>Muhlenbergia rigens</i>	Deergrass		Low to moderate	Sun to lt. shade
<i>Muhlenbergia wrightii</i>	Spike Muhly		Low	Sun
<i>Munroa squarrosa</i>	False Buffalograss		Low	Sun
<i>Oryzopsis hymenoides</i>	Indian Ricegrass		Low	Sun
<i>Panicum bulbosum</i>	Bulb Panicum		Low	Sun
<i>Panicum capillare</i> var. <i>occidentale</i>	Witchgrass		Low	Sun to lt. shade
<i>Panicum obtusum</i>	Vine Mesquite		Low	Sun
<i>Panicum virgatum</i>	Switchgrass		Low to moderate	Sun
<i>Poa fendleriana</i>	Muttongrass		Low to moderate	Shade to lt. sun
<i>Schizachryium scoparium</i>	Little Bluestem		Low	Sun to lt. shade
<i>Setaria macrostachya</i>	Plains Bristle		Low	Sun
<i>Sorghastrum nutans</i>	Indiangrass		Low to moderate	Sun to lt. shade
<i>Sporobolus airoides</i>	Alkali Sacaton		Low	Sun
<i>Sporobolus contractus</i>	Spike Dropseed		Low	Sun
<i>Sporobolus cryptandrus</i>	Sand Dropseed		Low	Sun
<i>Sporobolus flexuosus</i>	Mesa Dropseed		Low	Sun
<i>Stipa arida</i>	Needlegrass		Low	Sun
<i>Stipa comata</i>	Needle and Thread		Low	Sun
<i>Stipa neomexicana</i>	New Mexico Feathergrass		Low	Sun
<i>Stipa speciosa</i>	Desert Needlegrass		Low	Sun

This is a working list. Please let us know your comments, additions and suggestions of how to make it more useful.

ANIMAL RESISTANCE:

NATIVE PLANTS SELDOM PREFERRED BY MULE DEER

(From Segó Lily, the Newsletter of the Utah Native Plant Society, November/December 1989)

<i>Betula fontinalis</i>	Western Water Birch
<i>Cornus stolonifera</i>	Red-twig Dogwood
<i>Crataegus</i> sp.	Hawthorne
<i>Fraxinus anomala</i>	Single-leaf Ash
<i>Picea engelmanni</i>	Englemann Spruce
<i>Picea pungens</i>	Blue Spruce
<i>Populus angustifolia</i>	Narrowleaf Cottonwood
<i>Potentilla fruticosa</i>	by Cinquefoil
<i>Pseudotsuga menziesii</i>	Douglas Fir
<i>Ribes</i> sp.	Currants and Gooseberries
<i>Yucca</i> sp.	Yucca

NATIVE S USED BY DEER IN WINTER THAT RECOVER DURING THE GROWING SEASON:

(from Segó Lily, the Newsletter of the Utah Native Plant Society, November/December 1989)

<i>Amelanchier alnifolia</i>	Saskatoon Serviceberry
<i>Amelanchier utahensis</i>	Utah Serviceberry
<i>Artemisia tridentata</i>	Big Sagebrush
<i>Atriplex canescens</i>	Four-wing Saltbush
<i>Chrysothamnus viscidiflorus</i>	Douglas Rabbitbrush
<i>Coleogyne ramosissima</i>	Common Blackbrush
<i>Crataegus douglasii</i>	Douglas Hawthorne
<i>Eurotia lanata</i>	Common Winterfat
<i>Fallugia paradoxa</i>	Apache Plume
<i>Mahonia repens</i>	Creeping Barberry
<i>Pachystima myrsinites</i>	Mountain Lover
<i>Prunus virginiana</i>	Chokecherry
<i>Purshia stansburiana</i>	Common Cliffrose
<i>Purshia tridentata</i>	Antelope Bitterbrush
<i>Quercus gambelli</i>	Gambel Oak
<i>Rhus glabra</i>	Smooth Sumac
<i>Rhus trilobata</i>	Three-leaf Sumac
<i>Ribes aureum</i>	Golden Currant
<i>Ribes cereum</i>	Wax Currant
<i>Rosa woodsii</i>	Woods Rose



Sambucus caerulea Elderberry  
Symphoricarpos sp. Snowberry

ELK don't eat:  
Dugaldia hoopesii

DEER DON'T EAT:

Achillea ageratifolia  
Agastache cana  
Agastache rupestris  
Aquilegia sp.  
Artemisia  
Artemisia  
Berlandiera lyrata  
Petalostemon purpurea  
Caryopteris clandonensis  
Caryopteris clandonensis  
Cerastium tomentosum  
Cercocarpus ledifolius  
Chamaebatia millefolium  
Chrysothamnus nauseosus  
Chrysothamnus nauseosus  
Coreopsis grandiflora  
Coreopsis verticillata

Deer Resistant: (High Country Garden)

Delphinium grandiflorum  
Digitalis sp.  
Dugaldia hoopesii  
Fallugia paradoxa  
Gaillardia grandiflora  
Gaillardia grandiflora  
Kniphofia uvaria  
Kniphofia uvaria  
Nepeta x fasasenii  
Oenothera missouriensis  
Penstemon ambiguus  
Penstemon barbatus  
Penstemon cardinalis  
Penstemon crandallii  
Penstemon eatonii  
Penstemon linarioides  
Penstemon palmeri  
Penstemon pinifolius  
Penstemon pseudospectabilis  
Penstemon strictus  
Penstemon virens  
Penstemon x mexicale  
Perovskia atriplicifolia  
Perovskia atriplicifolia

RABBIT RESISTANT: (HIGH COUNTRY GARDEN)

*Ratibida columnifera*

*Rosmarinus*

*Salvia* sp.

*Santolina chamaecyparissus*

*Santolina chamaecyparissus*

*Scrophularia*

*Solidago rugosa*

*Solidago sphacelata*

*Sphaeralcea munroana*

*Stanleya*

*Tagetes lemmonii*

*Tagetes lemmonii*

*Thymus* `Pink Chintz`

*Thymus* `Pink Chintz`

*Thymus* `Reiter`

*Thymus* `Reiter`

*Thymus citriodorus* `Doone Valley`

*Thymus citriodorus* `Doone Valley`

*Thymus lanuginosus*

*Thymus lanuginosus*

*Thymus lanuginosus*

*Thymus necceffi*

*Thymus necceffi*

*Thymus pulegioides*

*Thymus pulegioides*

*Thymus serphyllum*

*Thymus serphyllum* `Albus`

*Thymus serphyllum* `Albus`

*Thymus serphyllum* `Coccineum`

*Thymus serphyllum* `Minus`

*Thymus serphyllum* `Minus`

*Zauschneria arizonica*

*Zauschneria garrettii*

*Zinnia grandiflora*

*Zinnia grandiflora*

TUSAYAN:  
(From Grand Canyon Flora)

TREES:

*Abies concolor*  
*Acer glabrum*  
*Acer grandidentatum*  
*Acer negundo* var. *interius*  
*Betula occidentalis*  
*Celtis reticulata*  
*Fraxinus velutina*  
*Juglans major*  
*Juniperus deppeana* (?)  
*Juniperus monosperma*  
*Juniperus osteosperma*  
*Juniperus scopulorum*  
*Picea engelmannii*  
*Picea pungens*  
*Pinus edulis*  
*Pinus flexilis*  
*Pinus monophylla*  
*Pinus ponderosa*  
*Populus fremonti*  
*Populus tremuloides*  
*Quercus gambelli*  
*Salix laevigata*  
*Salix scouleriana*

SHRUBS:

*Amelanchier utahensis*  
*Amorpha fruticosa*  
*Arctostaphylos patula*  
*Arctostaphylos pungens*  
*Artemisia filifolia*  
*Artemisia tridentata*  
*Atriplex confertifolia*  
*Ceanothus fendleri*  
*Ceanothus greggii*  
*Ceratoides lanatum*  
*Cercocarpus intricatus*  
*Cercocarpus ledifolius*  
*Cercocarpus montanus*  
*Chrysothamnus nauseosus*  
*Cornus stolonifera*  
*Ephedra nevadensis*  
*Ephedra torreyana*  
*Ephedra viridis*  
*Eriogonum corymbosum*  
*Eriogonum jamesii* var. *flavescens*  
*Eriogonum ovalifolium*  
*Eriogonum wrightii*  
*Fallugia paradoxa*  
*Fendlera rupicola*  
*Forestiera neomexicana*  
*Garrya flavescens*  
*Garrya wrightii*  
*Holodiscus dumosus*  
*Hymenoxys richardsonii*  
*Juniperus communis* var. *saxatilis* >8000'

Lonicera arizonica  
Lycium pallidum  
Mahonia fremontii  
Mahonia haematocarpa  
Philadelphus microphyllus  
Poliomintha incana 4,500-6,000'  
Potentilla fruticosa  
Prunus virginiana  
Purshia stansburiana  
Purshia tridentata  
Quercus turbinella  
Rhamnus betulaeifolia (wet)  
Rhus trilobata  
Ribes cereum  
Ribes inebrians  
Ribes inerme  
Ribes leptanthum  
Ribes montigenum  
Ribes velutinum  
Ribes viscosissimum  
Robinia neomexicana  
Rosa arizonica  
Rubus neomexicanus  
Salix exigua  
Salix goodingii  
Salix lasiolepis  
Shepherdia rotundifolia  
Symphoricarpos longiflorus  
Symphoricarpos oreophilus  
Symphoricarpos parshii  
Symphoricarpos rotundifolius  
Symphoricarpos utahensis  
Tetradymia canescens

#### CACTI AND SUCCULENTS

Need more cacti and succulents on list.

Agave parryi ssp. parryi  
Nolina microcarpa  
Yucca angustissima  
Yucca baccata  
Yucca harrimaniae

#### VINES:

Clematis ligusticifolia  
Parthenocissus inserta  
Vitis arizonica

#### PERENNIALS

Achillea millefolium  
Agastache pallidiflora  
Allionia incarnata  
Anaphalis margaritacea  
Anemopsis californica  
Antennaria marginata  
Antennaria parvifolia  
Antennaria rosulata  
Aquilegia caerulea  
Aquilegia chrysantha  
Aquilegia triternata  
Arenaria fendleri

Argemone munita  
Artemisia ludoviciana  
Asclepias asperula  
Asclepias speciosa  
Asclepias tuberosa  
Aster adscendens  
Aster falcatus  
Astragalus mollisimus  
Bahia dissecta  
Calylophus lavandulaefolius  
Campanula parryi  
Castilleja integra  
Castilleja linearifolia  
Cirsium arizonica  
Cirsium wheeleri  
Datura meteloides  
Delphinium nelsoni  
Echinocereus triglochidiatus  
Erigeron concinnus  
Erigeron divergens  
Erigeron flagellaris  
Eriogonum alatum  
Eriogonum racemosum  
Eriogonum umbellatum  
Erysimum asperum  
Fragaria ovalis  
Gaillardia pinnatifida  
Geranium caespitosum  
Geranium richardsonii  
Geum triflorum  
Gillia aggregata  
Helianthella quinquenervis  
Heterotheca villosa  
Heuchera parvifolia  
Heuchera rubescens  
Heuchera versicolor  
Hymenoxys acaulis  
Hymenoxys filifolius  
Hymenoxys subintegra  
Iris missouriensis  
Lesquerella arizonica  
Lesquerella intermedia  
Lewisia pygmaea  
Lewisia rediviva  
Linum lewisii  
Linum puberulum  
Lithospermum multiflorum  
Lobelia cardinalis  
Lupinus argenteus  
Machaeranthera canescens  
Machaeranthera tanacetifolia  
Mahonia repens  
Mertensia franciscana (moist shade)  
Mertensia maddougalli  
Mimulus cardinalis  
Mimulus guttatus  
Mirabilis multiflora  
Monardella odoratissima  
Oenothera caespitosa  
Oenothera pallida

Oenothera runcinata  
Opuntia erinaceae  
Opuntia polycantha  
Oxybaphus linearis  
Oxytropis lambertii  
Penstemon barbatus  
Penstemon bridgesii  
Penstemon caespitosus  
Penstemon eatoni  
Penstemon pachyphyllus  
Penstemon palmeri  
Penstemon pseudospectabilis  
Penstemon rydbergii  
Penstemon thompsoniae  
Penstemon utahensis  
Penstemon virgatus  
Petrophytum caespitosum  
Phlox austromontana  
Phlox longifolia  
Potentilla anserina  
Psilostrophe sparsiflora  
Psilostrophe tagetina  
Salvia dorrii  
Senecio multilobatus  
Senecio spartioides  
Sidalcea neomexicana  
Silene antirrhinoides  
Solidago canadensis  
Solidago missouriensis  
Solidago sparsiflora  
Sphaeralcea coccinea  
Sphaeralcea parvifolia  
Stanleya pinnata  
Swertia radiata  
Thalictrum fendleri  
Thermopsis montana  
Thlaspi montanum var. fendleri  
Townsendia exscapa  
Townsendia incana  
Tradescantia occidentalis  
Valeriana occidentalis  
Verbena maddougallii  
Viguiera multiflora  
Viola canadensis  
Viola nephrophylla  
Wyethia scabra

#### GRASSES:

Agrostis scabra  
Andropogon saccharoides  
Aristida purpurea var. longiseta  
Bothriochloa barbinodis  
Bouteloua curtipendula  
Bouteloua gracilis  
Carex occidentalis  
Carex spp.  
Festuca arizonica  
Festuca ovina  
Hilaria jamesii

Lycurus phleoides  
Muhlenbergia porteri  
Muhlenbergia richardsonis  
Oryzopsis hymenoides  
Poa arida  
Poa fendlerana  
Schizachryium scoparium  
Sporobolus contractus  
Sporobolus cryptandrus  
Sporobolus flexuosus  
Stipa arida  
Stipa columbiana  
Stipa comata  
Stipa lettermanii  
Stipa neomexicana  
Stipa speciosa

## INVASIVE AND WEEDY PLANTS

Invasive and weedy plants out-compete native vegetation, clog waterways, encourage fire, reduce palatability and usefulness of rangeland and ultimately reduce biological diversity of birds, animals and insects. Plants on this list should be removed where found and should not be intentionally planted on land adjacent to natural areas or waterways. Plants listed with N are State listed noxious weeds. It is against the law to harbor noxious weeds.

Agropyron desertorum "Crested Wheatgrass"  
Agropyron intermedia "Intermediate Wheatgrass"  
Agrostis stolonifera "Redtop"  
Ailanthus altissima "Tree of Heaven"  
Arundo donax "Arundo"  
Atriplex semibaccata "Australian Saltbush"  
Bromus inermis "Smooth Brome"  
Carduus nutans "Musk Thistle"  
Centranthus ruber "Red Valerian"  
Chrysanthemum leucanthemum "Oxeye Daisy"  
Cortaderia selloana "Pampas Grass"  
Cortaderia selloana and Cortaderia jubatum "Pampas Grass"  
Eragrostis lehmaniana "Lehmann's Lovegrass"  
"Hardy Pampas Grass"  
Lythrum salicaria "Purple loosestrife"

### **Noxious weeds:**

N -Bromus tectorum "Cheatgrass"  
N-Centaurea diffusa "Diffuse Knapweed"  
N-Centaurea solstitialis "Yellow Starthistle"  
N-Cirsium vulgare "Bull Thistle"  
N-Eleagnus angustifolius "Russian Olive"  
N-Halogeton glomeratus "Halogeton"  
N-Linaria dalmatica "Dalmatian Toadflax"  
N-Onopordum acanthium "Scotch Thistle"  
N-Russian Knapweed "Centaurea repens"  
N-Tamarix sp. "Tamarix"



O DO:

*Pennisetum* sp. "Fountaingrass"

*Poa pratensis* "Kentucky Bluegrass"

*Robinia pseudoacacia* "Black Locust"

*Rubus discolor* "Himalayan Blackberry"

*Salvia aethiopsis* "Mediterranean Sage"

*Saponaria officinalis* "Bouncing Bet"

*Tanacetum vulgare* "Tansy"

*Vinca minor* "Vinca"

NEED TO DEFINE "INDIGENOUS" for Tusayan and other areas.

IS LIST LIMITED TO "LOW WATER USE" . What are parameters of this term?

Would we like to add landscaping categories Groundcover, Subshrub, any others?

Need to check availability of species?

Need review of lists by local native plant nurseries and other nurseries, Coconino County Cooperative Extension

Need review of weed/invasive list by Arizona Weed Council and other interested groups – Contact Tina Ayers

Need review by Laura Moser, Nancy Brian and/or Barb Phillips of US Forest Service.

Define process to bring in non-native plants into lists: