

Plant Selections for the Arizona Highlands

Western Region County Agents Meeting
October 27-28, 2003

KEY

Hardiness:	10 - 0°F – Generally for elevations 3,250 to 4,750 feet, such as Globe, Sedona and Cottonwood 10- 20°F – Generally for elev. 5,000 to 6,500 feet, Payson and Prescott (some areas in Flagstaff too) 25- 40°F – Generally for elev. 6,750 to 7,500 feet, on the Rim, Pinetop-Lakeside and around Flagstaff
Water:	Mod. – Requires moderate supplemental water for satisfactory growth Low – Requires infrequent supplemental water for satisfactory growth None – Rarely requires supplemental water once established
Fire:	Good – Not readily flammable under wildfire conditions Fair – Ignition risks can be moderated by appropriate use Poor – Considered highly volatile or prone to ignition under wildfire conditions
Animal:	Good – Not likely to attract herbivores (rabbits, javelinas, etc.) in most cases Fair – May attract herbivores during droughty periods Poor – Considered highly susceptible to herbivore activity
Seasonality:	EG – Evergreen DC – Deciduous HP – Herbaceous Perennial SP – Succulent Perennial WS – Warm Season: Grows/Blooms during summer months CS – Cool Season: Grows/Blooms during spring/fall months
Light Tolerance:	FS – Full Sun PS – Partial Shade F/P – Full sun to partial shade
Height/Width:	Typical Height and Width at Maturity in Feet

Note: There are hundreds if not thousands of plant choices for the Arizona Highlands. This list is not intended to be an exclusive list or that these should be the only plants to choose from. Rather, it is to provide suggestions that address common growing conditions and challenges inherent to the area.

Groundcovers and Vines

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Artemisia ludoviciana</i> 'Silver King'	Mugwort	-40°F	Low	Fair	Good	HP	FS	3.5x2
<i>Berberis buxifolia</i> 'Nana'	Dwarf Barberry	0°F	Mod.	Good	Fair	EG	PS	6x6
<i>Campis radicans</i>	Trumpet Vine	-40°F	Mod	Good	Good	HP	F/P	3x40
<i>Clematis lasiantha</i>	Pipestems Vine	0°F	Low	Good	Good	HP	FS	3x18
<i>Cotoneaster horizontalis</i>	Spreading Cotoneaster	-20°F	Low	Good	Good	DC	FS	3x15
<i>Dalea greggii</i>	Trailing Indigo Bush	0°F	Low	Good	Good	EG	FS	1.5x6
<i>Delosperma cooperi</i>	Ice Plant	-20°F	Low	Good	Good	SP	PS	3x1.5
<i>Drosantherum floribundum</i>	Rosea Ice Plant	0°F	Low	Good	Good	SP	FS	.5x6
<i>Euonymus fortunei</i> 'Colorata'	Purple-leaf Winter Creeper	-10°F	Mod	Good	Fair	EG	PS	2x8
<i>Ganzania rigens</i>	Trailing Gazania	0°F	Mod	Good	Fair	HP	FS	1x6
<i>Ganzania linearis</i> 'Colorado Gold'	Hardy Gazania	-20°F	Mod	Good	Fair	HP	PS	<.5x1.5
<i>Lantana montevidensis</i>	Lantana	10°F	Mod	Good	Fair	HP	FS	2x6
<i>Oenothera speciosa</i>	Mexican Evening Primrose	-20°F	Low	Good	Fair	HP	FS	1x3
<i>Parthenocissus inserta</i>	Virginia Creeper	-40°F	Mod	Good	Good	DC	F/P	1x40
<i>Potentilla neumanniana</i>	Perennial Cinquefoil	-40°F	Mod	Good	Good	EG	PS	3x.5
<i>Santolina chamaecyparissus</i>	Lavender Cotton	-20°F	Low	Fair	Good	HP	FS	2x3
<i>Teucrium chamaedrys</i> 'Prostratum'	Prostrate Germander	-20°F	Mod	Good	Fair	HP	FS	1x2
<i>Thymus serpyllum</i> 'Pink Chintz'	Creeping Thyme	-40°F	Mod	Good	Good	HP	PS	<.5x1.5

Grasses

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Agropyron smithii</i>	Western Wheatgrass	-40°F	Mod	Fair	Poor	CS	F/P	2x<1
<i>Bouteloua curtipendula</i>	Side-oats Grama	-40°F	Low	Fair	Fair	WS	FS	2x2
<i>Bouteloua gracilis</i>	Blue Grama	-40°F	Low	Fair	Fair	WS	FS	1.5x1
<i>Bouteloua hirsuta</i>	Hairy Grama	-20°F	Low	Fair	Fair	WS	FS	1x<1
<i>Buchloe dactyloides</i>	Buffalo Grass	-40°F	Low	Fair	Fair	WS	FS	<.5x6
<i>Elymus elymoides</i>	Bottlebrush Squirreltail	-40°F	Low	Fair	Fair	CS	F/P	1.5x<1
<i>Festuca arizonica</i>	Arizona Fescue	-40°F	Mod	Fair	Good	CS	F/P	2x<1
<i>Koeleria macrantha</i>	June Grass	-40°F	Low	Fair	Poor	WS	F/P	1.5x<1

Grasses

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Muhlenbergia rigens</i>	Deergrass	0°F	Mod	Fair	Poor	WS	F/P	4x4
<i>Muhlenbergia wrightii</i>	Spike Muhly	-20°F	Low	Fair	Fair	CS	F/P	2x<1
<i>Sporobolus cryptandrus</i>	Sand Dropseed	-40°F	Low	Fair	Poor	WS	FS	3x<1
<i>Stipa comata</i>	Needle-and-thread	-40°F	Low	Fair	Fair	WS	FS	2x<1
<i>Stipa hymenoides</i>	Indian Ricegrass	-40°F	Low	Fair	Fair	WS	FS	1.5x<1

Smaller Shrubs and Perennials

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Anisacanthus quadrifidus</i> <i>wrightii</i> 'Mountain Flame'	Desert Honeysuckle	0°F	Mod	Good	Poor	DC	F/P	3x4
<i>Anisacanthus thurberi</i>	Chuparosa	10°F	Mod	Good	Fair	EG	FS	4x4
<i>Baileya multiradiata</i>	Desert Marigold	-25°F	Low	Good	Good	HP	FS	1.5x
<i>Penstemon ambiguus</i>	Sand Penstemon	-20°F	Low	Good	Fair	HP	FS	2x2
<i>Penstemon eatonii</i>	Firecracker Penstemon	-40°F	Low	Good	Fair	HP	F/P	3x3
<i>Salvia greggii</i>	Autumn Sage	0°F	Low	Fair	Good	EG	F/P	4x4
<i>Zinnia acerosa</i>	Desert Zinnia	0°F	Low	Good	Good	HP	FS	.5x2
<i>Tagetes lemmonii</i>	Mt. Lemmon Marigold	0°F	Mod	Good	Good	HP	FS	6x6
<i>Zauschneria californica</i>	California Fuschia	-20°F	Low	Good	Fair	HP	FS	2x<1

Accents and Succulents

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Agave parryi</i>	Parry's Agave	-20°F	None	Good	Good	EG	F/P	3x3
<i>Dasyliirion wheeleri</i>	Desert Spoon	0°F	None	Good	Good	EG	FS	5x5
<i>Echinocereus engelmannii</i>	Hedgehog Cactus	-20°F	None	Good	Good	EG	FS	2x3
<i>Euphorbia rigida</i>	Golden Spurge	0°F	Low	Good	Good	HP	FS	2x5
<i>Ferocactus pilosus</i>	Red Spined Barrel Cactus	10°F	None	Good	Good	EG	FS	6x2
<i>Fouquieria splendens</i>	Ocotillo	0°F	None	Good	Good	DC	FS	25x10
<i>Hesperaloe parviflora</i>	Red Yucca	-20°F	Low	Good	Good	EG	F/P	4x4
<i>Nolina microcarpa</i>	Beargrass	-15°F	None	Fair	Good	EG	FS	3x6
<i>Opuntia basilaris</i>	Beavertail	-20°F	None	Good	Good	EG	FS	1x4
<i>Yucca elata</i>	Soap tree Yucca	0°F	None	Good	Good	EG	FS	20x10
<i>Yucca rigida</i>	Blue leaf Yucca	10°F	None	Good	Good	EG	FS	12x5

Shrubs greater than 4 ft.

<u>Scientific Name</u>	<u>Common Name</u>	<u>Hardiness</u>	<u>Water</u>	<u>Fire</u>	<u>Animal</u>	<u>Season</u>	<u>Light</u>	<u>Height/Width</u>
<i>Atriplex canescens</i>	Four-wing saltbush	-25°F	None	Good	Good	EG	FS	6x8
<i>Buddleja alterifolia</i>	Butterfly Bush	-10°F	Mod	Good	Good	DC	FS	12x12
<i>Caesalpinia gilliesii</i>	Yellow Bird of Paradise	0°F	Low	Good	Fair	DC	FS	10x8
<i>Cercocarpus betuloides</i>	Mountain Mahogany	-25°F	None	Good	Good	EG	FS	12x12
<i>Chamaebatiaria millefolium</i>	Fernbush	-40°F	Low	Good	Good	EG	FS	8x8
<i>Cowania mexicana</i>	Cliff Rose	-10°F	Low	Good	Good	EG	FS	6x6
<i>Dalea frutescens</i> 'Sierra Negra'	Black Dalea	0°F	Low	Good	Good	EG	FS	3x4
<i>Dodonaea viscosa</i>	Hop bush	0°F	Low	Good	Good	EG	F/P	15x15
<i>Ephedra viridis</i>	Mormon tea	-25°F	None	Good	Good	EG	FS	4x4
<i>Fallugia paradoxa</i>	Apache Pluma	-20°F	None	Good	Good	EG	FS	6x5
<i>Leucophyllum frutescens</i>	Texas Ranger	0°F	Low	Good	Good	EG	FS	8x8
<i>Leucophyllum laevigatum</i>	Chihuahuah Sage	-10°F	Low	Good	Good	EG	FS	4x5
<i>Lycium andersonii</i>	Waterjacket	-20°F	Low	Good	Fair	DC	FS	9x9
<i>Myrtus communis</i> 'Boetica'	Boetica Myrtle	0°F	Low	Fair	Fair	EG	F/P	6x5
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	-40°F	Low	Good	Good	DC	PS	4x4
<i>Pyracantha coccinea</i>	Firethorn	-15°F	Mod	Good	Good	EG	FS	10x10
<i>Quercus turbinilla</i>	Scrub Oak	-20°F	None	Good	Good	EG	FS	10x10
<i>Rhamnus frangula</i>	Alder Buckthorn	-40°F	Mod	Good	Fair	DC	F/P	12x12
<i>Rhus virens</i>	Evergreen sumac	10°F	Low	Good	Good	EG	PS	12x12
<i>Rhus ovata</i>	Sugar Bush	0°F	None	Good	Good	EG	FS	10x10
<i>Rhus trilobata</i>	Lemonade-berry	-25°F	None	Good	Good	DC	FS	6x6

Trees under 20 Feet (Powerline compatible)

<u>Scientific Name</u>	<u>Common Name</u>	<u>Hardiness</u>	<u>Water</u>	<u>Fire</u>	<u>Animal</u>	<u>Season</u>	<u>Light</u>	<u>Height/Width</u>
<i>Acacia constricta</i>	White-thorn Acacia	0°F	None	Good	Good	DC	FS	18x18
<i>Acacia greggii</i>	Catclaw	0°F	None	Good	Good	DC	FS	~20x15
<i>Acer ginnala</i>	Amur Maple	-40°F	Mod	Good	Good	DC	PS	20x20
<i>Acer grandidentatum</i>	Big-tooth Maple	-40°F	Mod	Good	Good	DC	PS	~20x30
<i>Cercis canadensis</i> var. <i>mexicana</i>	Mexican Redbud	0°F	Mod	Good	Good	DC	F/P	15x25

Trees under 20 Feet (Powerline compatible)

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Chilopsis linearis</i>	Desert Willow	-10°F	Low	Good	Good	DC	FS	~20x20
<i>Forestiera neomexicana</i>	New Mexico Olive	-40°F	Low	Good	Good	DC	FS	18x12
<i>Fraxinus greggii</i>	Little Leaf Ash	-10°F	Low	Good	Good	DC	FS	~20x20
<i>Fremontodendron californicum</i>	Flannel Fremontia	0°F	None	Good	Good	EG	FS	20x12
<i>Lagerstroemia indica</i>	Crape myrtle	0°F	Mod	Good	Fair	DC	FS	~20x25
<i>Leucaena retusa</i>	Golden Ball Lead Tree	-10°F	Low	Good	Good	DC	FS	20x20
<i>Parkinsonia florida</i>	Blue Palo Verde	10°F	None	Good	Good	DC	FS	20x20
<i>Pithecellobium flexicaule</i>	Texas Ebony	0°F	Low	Good	Good	EG	PS	~20x20
<i>Prunus padus</i>	Bird Cherry Tree	-40°F	Mod	Good	Good	DC	FS	20x20
<i>Prunus virginiana demissa</i>	Western Chokecherry	-20°F	Low	Good	Good	DC	FS	~20x25
<i>Robinia neomexicana</i>	New Mexico Locust	-20°F	None	Good	Fair	DC	FS	20x20
<i>Sophora secundiflora</i>	Texas Mountain Laurel	0°F	Low	Good	Good	EG	F/P	~20x15
<i>Vauquelinia californica</i>	Arizona Rosewood	0°F	Low	Good	Good	EG	F/P	20x15
<i>Vitex agnus-castis</i>	Chaste Pepper Tree	-10°F	Mod	Good	Good	DC	FS	~20x20

Trees over 20 feet

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Abies concolor</i>	White Fir	-40°F	Mod	Good	Good	DC	PS	80x20
<i>Acer negundo</i> 'Variegatum'	Variegated Box Elder	-40°F	Mod	Good	Good	DC	PS	50x50
<i>Albizia julibrissin</i>	Mimosa	0°F	Mod	Good	Good	DC	FS	40x80
<i>Catalpa speciosa</i>	Northern Catalpa	-40°F	Mod	Good	Fair	DC	PS	60x40
<i>Cedrus deodara</i>	Deodar Cedar	-10°F	Low	Poor	Good	EG	FS	80x40
<i>Celtis reticulata</i>	Netleaf Hackberry	-20°F	Low	Good	Good	DC	FS	30x30
<i>Crataegus oxyacantha</i>	English Hawthorn	-40°F	Mod	Good	Good	DC	FS	25x20
<i>Cupressus arizonica</i>	Arizona Cypress	-10°F	None	Poor	Good	EG	FS	40x20
<i>Eucalyptus microtheca</i>	Coolibah	10°F	None	Poor	Good	EG	FS	60x54
<i>Fraxinus velutina</i>	Arizona Velvet Ash	-20°F	Mod	Good	Good	DC	FS	30x40
<i>Gleditsia triacanthos inermis</i>	Thornless Honey Locust Tree	-40°F	Mod	Good	Good	DC	FS	50x35
<i>Juglans nigra</i>	Black Walnut	-40°F	Mod	Good	Good	DC	FS	100x70
<i>Juniperus deppeana</i>	Alligator Juniper	-25°F	None	Poor	Good	EG	FS	60x60
<i>Juniperus monosperma</i>	One-seeded Juniper	-25°F	None	Poor	Good	EG	FS	40x40
<i>Juniperus ostoesperma</i>	Utah Juniper	-25°F	None	Poor	Good	EG	FS	30x30

Trees over 20 feet

Scientific Name	Common Name	Hardiness	Water	Fire	Animal	Season	Light	Height/Width
<i>Juniperus scopulorum</i>	Rocky Mtn. Juniper	-40°F	None	Poor	Good	EG	FS	25x25
<i>Koelreuteria paniculata</i>	Goldenrain Tree	-20°F	Mod	Good	Good	DC	FS	35x40
<i>Picea pungens</i>	Colorado Blue Spruce	-40°F	Low	Poor	Good	EG	F/P	60x20
<i>Pinus brutia</i> var. <i>eldarica</i>	Eldarica Pine	10°F	Low	Poor	Good	EG	FS	80x25
<i>Pinus edulis</i>	Pinon Pine	-20°F	None	Poor	Good	EG	FS	20x16
<i>Pinus monosperma</i>	One-seeded Pinyon	-20°F	None	Poor	Good	EG	FS	25x15
<i>Pinus monophylla</i>	One-leaf Pinyon	-25°F	None	Poor	Good	EG	FS	25x15
<i>Pinus ponderosa</i>	Ponderosa Pine	-25°F	None	Poor	Good	EG	FS	100x40
<i>Pistacia chinensis</i>	Chinese Pistache	-10°F	Low	Good	Good	DC	FS	60x60
<i>Platanus x acerifolia</i>	London Plane Tree	-20°F	Low	Good	Good	DC	FS	80x40
<i>Populus alba</i>	European White Poplar	-40°F	Mod	Good	Fair	DC	F/P	70x70
<i>Prosopis abla</i> 'Colorado'	Thornless Argentine Mesquite	10°F	None	Good	Good	DC	FS	30x30
<i>Prosopis glandulosa</i> 'Maverick'	Thornless Honey Mesquite	10°F	None	Good	Good	DC	FS	25x25
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	Douglas-fir	-40°F	Mod	Poor	Good	DC	F/P	100x30
<i>Quercus buckleyi</i>	Texas Red Oak	-10°F	Low	Good	Good	DC	FS	35x35
<i>Quercus emoryi</i>	Emory Oak	-10°F	None	Good	Good	EG	FS	50x40
<i>Quercus gambellii</i>	Gambel Oak	-40°F	Low	Good	Good	DC	PS	30x20
<i>Quercus ilex</i>	Holly-leaf Oak	0°F	Mod	Good	Good	EG	FS	60x60
<i>Quercus virginiana</i>	Heritage Live Oak	-10°F	Low	Good	Good	EG	FS	80x80
<i>Robinia pseudoacacia</i>	Black Locust	-40°F	Low	Good	Good	DC	F/P	75x60