

Wildland-Urban Interface NR/FF/002

Firewise Plants for Utah Landscapes

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This fact sheet describes characteristics of firewise plants and firewise landscapes, and lists examples of firewise plants that can be used in Utah landscapes.

Wildland/Urban Interface Fire Hazards

Fire is an important part of many of Utah's natural landscapes, including landscapes in fringe or interface areas near rapidly growing cities, towns, and recreational developments. But when people build homes in these areas, a minor fire that might have burned a few trees and shrubs in a natural area instead can become a major disaster. Throughout Utah wildland/urban interface fires are becoming more of a problem as people choose to live in previously undeveloped areas on the edges of cities, areas with trees, shrubs, and grasses that often are very flammable.

Firewise Landscaping

Firewise landscaping is the practice of designing, installing, and maintaining a landscape to minimize fire hazard to structures, residents, and neighbors, while maintaining components of the native ecosystems that attracted people to live in such areas in the first place. Such landscaping uses appropriate plants, then places and maintains them so that fuel loads decrease in zones between an area to be protected (like your home) and the surrounding wildland.

Use of firewise plants alone does not guarantee fire safety for you or your home. But, firewise plants coupled with good design and maintenance help establish a defensible space around your home or neighborhood that assists firefighters in their protection efforts. Native vegetation around homes and neighborhoods also can be managed in a firewise manner through pruning, thinning, and occasional clearing.

This fact sheet mainly covers selection of firewise plants for use in Utah landscapes. Other elements of firewise landscape design, installation, and maintenance will be covered in other fact sheets. Go to http://extension.usu.edu/forestry/HomeTown/HO_Firewise.htm for an electronic version of this fact sheet and a slide presentation showing most of these plants.



House in dense Gambel oak stand

Firewise Plant Characteristics

Firewise plants have a number of characteristics in common, but also can vary considerably. Following are some important points about these plants and their management.

- ✓ No plant is fireproof. All will burn in a very intense fire.
- ✓ Firewise plants all have one or more of these firewise characteristics:
 - ★Tissues contain more moisture, especially during the fire season.
 - **★** Tissues contain low amounts of volatile oils and other readily flammable chemicals.
 - ➤ Plants provide less fuel, either by producing less litter or by staying small.
 - *Plants are compact or low to the ground, allowing them to be used in the landscape to interrupt fire pathways.
- ✓ All trees provide large amounts of fuel to a fire, so they should be carefully placed and maintained. Broadleaved trees generally are less flammable than conifers (pines, firs, spruces, junipers).
- ✓ Most of the firewise plants listed in this publication do well in open, sunny areas typical of most fire-prone sites.
- ✓ Some firewise plants need minimal or no irrigation to remain green and healthy; over-irrigation may harm such plants or may cause them to grow too fast and become hazardous. Other plants will need supplemental water to survive. Know your plants' needs and habits so you can use and manage them appropriately.
- ✓ When choosing a particular plant species or cultivar for a firewise planting, favor those that are low to the ground, compact, and that stay green and healthy with low maintenance and minimal water.
- ✓ All firewise plants should receive periodic maintenance, including removal of dead leaf and stem material within the crown and on the ground, pruning to keep crowns thinner and to keep tree crowns high, and removal of individual plants to break up fuel continuity.
- ✓ Make sure that the plants you are considering are coldhardy (check the USDA hardiness zone for the plant and compare it to the zone for your area) and otherwise wellsuited for your locale and the specific planting site.
- ✓ Some plants are weedy and may even be illegal to plant or cultivate.

Firewise Plants for Utah Landscapes

The following table lists plants and groups of plants that can be firewise if used properly in the landscape and properly maintained. Plants or groups of plants marked with an * can become weedy in certain circumstances, and may even be noxious weeds with legal restrictions against their planting and cultivation. Check with your local Extension office or State Department of Agriculture office for information on noxious weeds in your area.

Most of these plants are fairly commonly available in the nursery trade, and cultivars and hybrids usually are available. All of these plants should be cold-hardy in most of Utah (USDA hardiness zones 4 or 5). Some need considerable supplemental irrigation, while others need very little water. Be sure to learn about the plants you use and know their requirements.

Where no particular species or cultivar is listed, or when considering plants not listed here, pick one that has firewise characteristics as described above. Don't assume that a plant is firewise just because it is closely related to one in the list or because it has a similar name.

Botanical Name Common Name
Grasses
Agropyron cristatum
•resists fire spread due to growth form
Buchloe dactyloidesBuffalograss
◆low growing without mowing; moist through summer
with minimal irrigation
Dactylis glomerataOrchardgrass
◆must be mowed or grazed
Festuca cinerea and other species
•most low growing; may need to mow; stays moist with
irrigation
Lolium speciesRye Grass
◆stays green with less irrigation than some; need to mow
or graze
Pascopyrum smithii
◆low fuel loads; regrows quickly after fire
Poa pratensisKentucky Bluegrass
◆low growing; may need to mow; stays moist with
irrigation
Poa secunda
•low growing without mowing; low fuel loads
Herbaceous Perennials
Achillea clavennaeSilvery Yarrow
◆small plants for dry sites

Botanical Name	Common Name	Botanical Name	Common Name
Achillea filipendulina	Fernleaf Yarrow	Limonium latifolium	
Achillea—other species & hybrids •some are volatile; good for dry sites	Yarrow*	Linum species •good for tough sites & soils	Flax
Aquilegia species & hybrids	Columbina		Lily turf
• likes moisture and some shade	Columbine	Liriope spicatum	
	o Dinle Coo Thuift		•
Armeria maritima		Lupinus species & hybrids	
•low growing; dry, infertile sites only; sa		•some are annuals; poisonous to live	stock, good for
Artemisia stellerianaBeach Wormw ◆needs very well-drained soil; moist in su		poor soils Medicago sativa	Alfalfa
Artemisia—other species & hybrids	various names	• green & moist through summer; low	-
*some are volatile; all like dry soils	Danaania	Oenothera species	
Bergenia species & hybrids	_	• fairly low growing; best on poor soi	
•moisture loving; medium-sized; semi-ev	=	Papaver species	Рорру
Centranthus ruber	in, Jupiter's Beard	• easy to grow; cut back regularly	Donatomon
•gets fairly large; moist in summer	C	Penstemon species & hybrids	Penstemon
Cerastium tomentosum	Snow-in-summer	•use on well-drained soils	···· G A G
◆low growing; moist in summer	F C	Perovskia atriplicifoliaRus	-
Coreopsis auriculata var. Nana Dwarf Mo	use Ear Coreopsis	•moist through summer; cut back yea	-
•needs moisture; fairly low growing	G	Potentilla nepalensis	Nepai Cinquetoii
Coreopsis—other perennial species	Coreopsis	•prostrate form	G : G: C:1
•more drought tolerant; larger plants	II 1 I D1 /	Potentilla neumanniana 'Nana' (P. verna)	
Delosperma nubigenum		•very low growing	1 0
•also other ice plants; very drought tolera		Potentilla—other non-shrubby species &	
Dianthus plumarius & others		•sulfur cinquefoil is weedy; full sun;	Potentilla*
•use perennials; needs moisture; moist in		moist through summer	01:0 *
Erigeron hybrids	Fleabane*	Salvia species & hybrids	_
•moist through summer		•some are annuals; Mediterranean sa	ge is weedy; only
Gaillardia x grandiflora	Blanketflower	use low growing, small plants	G. 1
drought, heat tolerant; moist in summer;	large	Sedum species	_
Geranium cinereum	. Hardy Geranium	•very low growing; fleshy, moist leav	
◆low growing; cool sites		Sempervivum tectorum	
Geranium sanguineum Bloody Cranesbill, B	loodred Geranium	very low growing; succulent; good opoor soils	on droughty,
•low/medium growing; partial shade or s	un	Sibbaldiopsis (Potentilla) tridentata	Wineleaf Cinquefail
Geranium species	Geranium	•prostrate, spreading form	willelear Ciliqueton
•use perennials; most low growing; need	shade where hot	Stachys byzantina	Lamb's For
Hemerocallis species	Daylily	•moist through summer; good on poo	
green and moist through summer		Yucca filamentosa	
Heuchera sanguinea Coral	Bells, Alum Root	•evergreen; very drought tolerant	Tucca
◆also other species, hybrids; low growing	foliage	vevergreen, very drought tolerant	
<i>Iberis sempervirens</i> Ev	ergreen Candytuft	Shrubs and Woody Vines	
•fairly low growing; evergreen		-	nnikinniak Manzanita
Iris species & hybrids	Iris	Arctostaphylos uva-ursi Bearberry, Ki ◆very low and spreading; evergreen;	
•green and moist through summer		needs little pruning; salt tolerant	use on poor sons,
Kniphofia species & hybrids	Red-hot Poker	Atriplex species	Calthugh
◆large plants; moist in summer		•very drought tolerant; low maintena	
Lavandula species	Lavender		
•moist in summer; compact; cut to ground		<i>Ceanothus americanus</i> ◆low, dense form; evergreen; fairly tr	•
Leucanthemum X superbum		tolerant	ouble free, arought
•green and moist through summer	-	witialli	

Botanical Name	Common Name
Ceanothus ovatus (C. herbaceous) & others	s Ceanothus
•fairly low growing; evergreen; low m	aintenance
Cistus species	Rock-rose
•not all are cold hardy; evergreen; dry	sites; size varies
Cotoneaster dammeriB	earberry Cotoneaster
•low growing; evergreen; minimal ma	intenance; dry sites
Cotoneaster horizontalisRockspray	or Rock Cotoneaster
very low and spreading; evergreen	
Cotoneaster—other compact species	Cotoneaster
•low growth form; low maintenance; t	ough
Hedera helix	English Ivy
•evergreen vine; low growing, spreadi	
to control spread; sun or shade	
Kochia prostrataImmi	igrant Forage Kochia
*stays green; no volatiles; clumps brea	
don't use weedy annual kochia	
Lonicera species & hybrids	Honeysuckle
*shrubs or vines; use low growing spec	
Mahonia repensCre	
•very low growing, spreading shrub; e	
some shade	
Parthenocissus quinquefolia	Virginia Creeper
•vine; tough and vary adaptable; prune	
Prunus besseyi (P. pumila var. besseyi)	=
*small, spreading shrub for dry, tough	-
Purshia tridentataBitterbrush,	Antelope Bitterbrush
•low maintenance; good for tough, dry	sites
Pyracantha species I	
•evergreen shrub; use low growing sel	ections; prune
regularly	
Rhamnus species	Buckthorn
◆tough shrub; low maintenance	
Rhus trilobata	Skunkbush Sumac
•easy to grow shrub; fairly small; low	maintenance
Rhus—other species	
•fairly tough and drought tolerant; son	
prune periodically	
Ribes species	Currant, Gooseberry
•use low growing dwarf forms; fairly	•
Rosa rugosa & other hedge roses	
•medium shrub; tough, fairly drought	•
Shepherdia canadensis	
*does well on very poor soils; drought	•
nitrogen; salt tolerant	,

Botanical Name	Common Name
Syringa vulgaris	Lilac
•small to large shrubs; stays green th	rough summer with
irrigation; thin and prune regularly	у
Vinca major	Large Periwinkle
◆low growing, prostrate groundcover	_
Vinca minor Dwarf Periwinkle	
◆similar to large periwinkle, but very	
Trees	
Acer species	Maple
•needs supplemental moisture	_
Betula species	Birch
•needs supplemental moisture; use b	
selections	
Cercis occidentalis (C. orbiculata)	California Redbud
*small tree or shrub; drought and hea	
Populus tremuloides	Quaking Aspen
•needs supplemental moisture; good	if maintained in
young clumps, otherwise not suita	
Populus—other species	-
•needs supplemental moisture; most	
Salix species	
•needs supplemental moisture; disea	
shrubs	

For More Information

Kuhns, Michael 1998. Trees of Utah and the Intermountain West. USU Press, Logan, UT 84322-7800. 341pp.

Still, Steven M. 1994. Manual of Herbaceous Ornamental Plants. Stipes Publ., 10-12 Chester St., Champaign, IL 61820. 814 pp.

Visit the Forestry Extension Web site at http://extension.usu.edu/forestry/HomeTown/HO_Firewise.htm for fire safety information. Also, go to www.firewise.org and www.utahfireinfo.gov for more fire-related information.

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