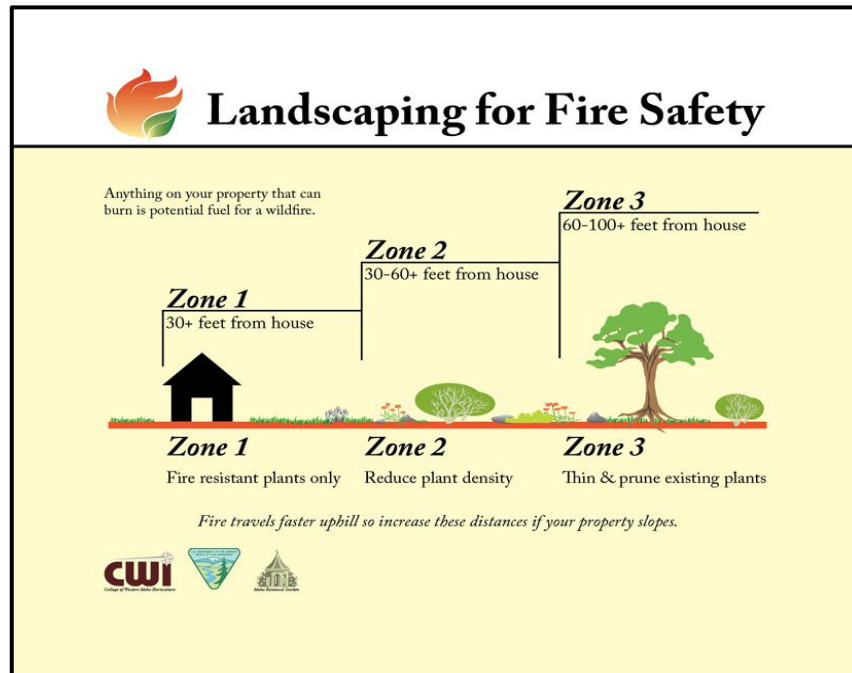


# Fire Resistance of Plants Master Database & Placement of Species Within Firewise Landscape Zones

## For Southern Idaho

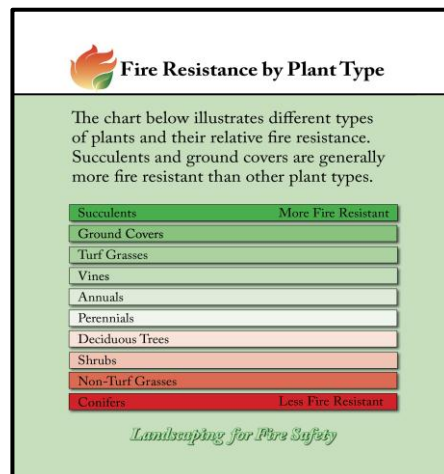
Idaho residents who live in or near the urban/rangeland interface endure higher risk for fire-related property damage, as well as greater peril to their families, pets and livestock. Understanding those risks and making changes in landscaping techniques can help keep rangeland fires from becoming disasters at home.

The figure below shows a Firewise Landscape Design using a progression of "Zones".



This Database has been developed as tool for homeowners, property managers and the landscape nursery industry to utilize for plant species and placement choices within a Firewise Landscape using the Zone concept shown above.

As a cooperative project with the Bureau of Land Management, the College of Western Idaho Horticulture and the Idaho Botanical Garden, extensive research and testing of over 400 species and cultivars are included in this database and summarize a list of species suggested for each Firewise Landscape Zone.

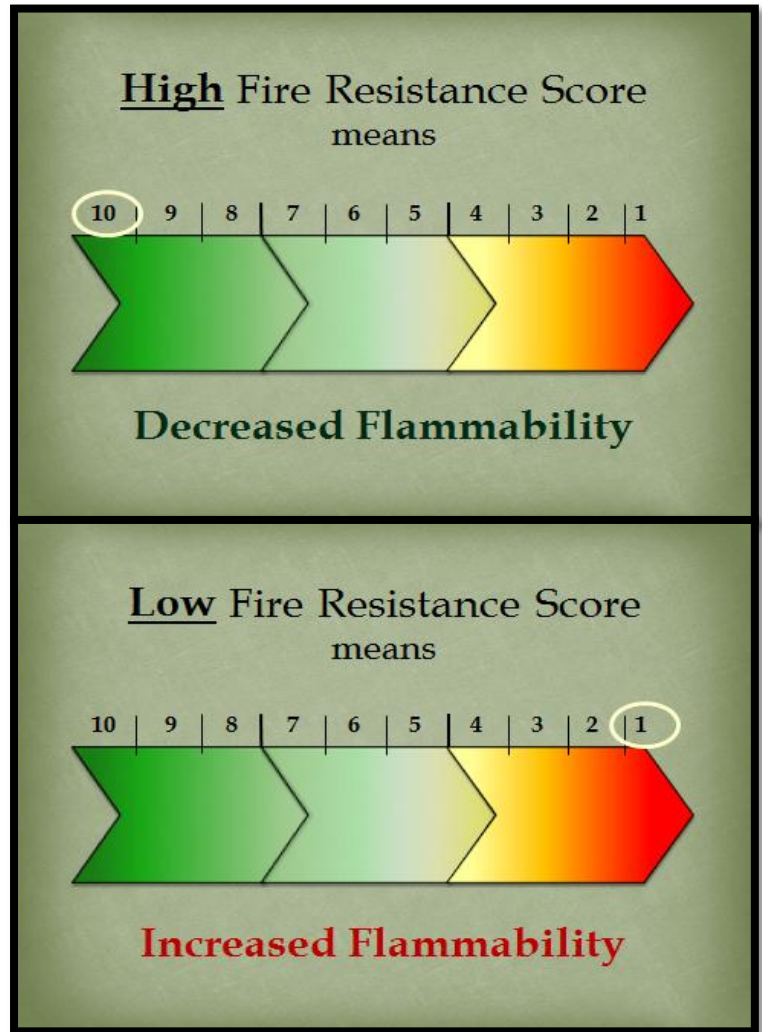


Plant species have been organized by plant type from more fire resistant to less fire resistant as shown above.

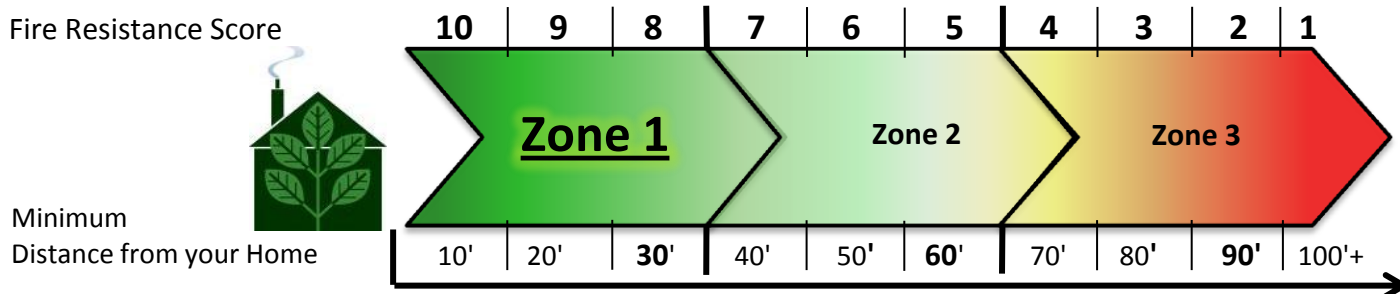
# Fire Resistance of Plants Master Database

## & Placement of Species Within Firewise Landscape Zones

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# Zone 1 Species List count 177



\*Fire Resistance Score correlates to the respective Firewise Zone and minimum suggested distance from your home.  
 Example: A species with a Fire Resistance Score of 9 could be located 20' or greater from your home.

<b>Botanical name</b>	Native	<b>Common name</b>	<b>Fire Resistance Score</b>
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## Succulents

<i>Opuntia</i> spp.		Prickly Pear Cactus	<b>10</b>
<i>Sedum lanceolatum</i>		Yellow Stonecrop	<b>10</b>
<i>Sedum reflexum</i>		'Blue Spruce' Stonecrop	<b>10</b>
<i>Sedum rupestre</i>		'Angelina' Stonecrop	<b>10</b>
<i>Sedum sichotense</i>		Stonecrop	<b>10</b>
<i>Sedum sieboldii</i>		October Daphne Stonecrop	<b>10</b>
<i>Sedum spathulifolium</i>		'Cape Blanco' Stonecrop	<b>10</b>
<i>Sedum</i> spp.		Stonecrop	<b>10</b>
<i>Sedum spurium</i>		'Blaze of Fulda' Stonecrop	<b>10</b>
<i>Sedum spurium</i>		'Dragon's Blood' Stonecrop	<b>10</b>
<i>Sedum telephium</i>		'Black Jack' Autumn Stonecrop	<b>10</b>
<i>Sedum telephium</i>		'Matrona' Stonecrop	<b>10</b>
<i>Sempervivum</i> spp.		Hens & Chicks	<b>10</b>

## Groundcovers

<i>Aegopodium podagraria</i>		'Variegatum' Bishop's Weed	<b>8</b>
<i>Ajuga reptans</i>		Ajuga	<b>8</b>
<i>Antennaria dioica</i>		'Rubra' Pussytoes	<b>8</b>
<i>Antennaria microphylla</i>		Little-leaf Pussytoes	<b>8</b>
<i>Antennaria parvifolia</i>		Small-leaf Pussytoes	<b>8</b>
<i>Antennaria rosea</i>		Rosy Pussytoes	<b>8</b>
<i>Arabis</i> spp.		Rockcress	<b>8</b>
<i>Aubrieta</i> spp.		False Rockcress	<b>8</b>
<i>Aurinia saxatilis</i>		Basket-of-Gold	<b>8</b>
<i>Callirhoe involucrata</i>		Poppy Mallow	<b>8</b>
<i>Cerastium alpinum</i> v. <i>lanthanum</i>		Alpine Mouse-Ears	<b>8</b>

### Groundcovers continued

<i>Cerastium tomentosum</i>	Snow-in-Summer	8
<i>Ceratostigma plumbaginoides</i>	Hardy Plumbago	8
<i>Convallaria majalis</i>	Lily-of-the-Valley	10
<i>Delosperma basuticum</i>	White Eyed Ice Plant	10
<i>Delosperma cooperi</i>	Pink Ice Plant	10
<i>Delosperma hybrid</i>	'John Proffit' Ice Plant	10
<i>Delosperma nubigenum</i>	Yellow Ice Plant	10
<i>Echeveria</i> spp.	Hens & Chicks	8
<i>Ephedra regeliana</i>	Creeping Ephedra	8
<i>Fragaria</i> spp.	Wild Strawberries	9
<i>Galium boreale</i>	Northern Bedstraw	8
<i>Galium odoratum</i>	Sweet Woodruff	8
<i>Lamium</i> spp.	Dead Nettle	8
<i>Liriope</i> spp.	Liriope	8
<i>Marrubium rotundifolium</i>	Silver Edged Horehound	8
<i>Nierembergia repens</i>	Creeping White Cup	8
<i>Pachysandra terminalis</i>	'Green Sheen' Spurge	8
<i>Penstemon caespitosus</i>	Mat Penstemon	8
<i>Penstemon davidsonii</i>	Davidson's Penstemon	8
<i>Penstemon davidsonii</i> v. <i>menziesii</i>	'Microphyllus' Green Mat Penstemon	8
<i>Saponaria ocymoides</i>	'Alba' White Flowered Soapwort	10
<i>Saponaria ocymoides</i>	Rock Soapwort	10
<i>Saponaria officinalis</i>	Bouncing Bett	10
<i>Saponaria x lempergii</i>	Giant Flowered Soapwort	8
<i>Thymus serpyllum</i>	'Minus' Creeping Thyme	8
<i>Veronica liwanensis</i>	Turkish Speedwell	8
<i>Veronica oltensis</i>	Thyme-leaf Speedwell	8
<i>Vinca minor</i>	Periwinkle	8
<i>Waldsteinia</i> spp.	Barren Strawberry	8

### Turf

<i>Buchloe dactyloides</i>	Buffalograss	9
<i>Bouteloua gracilis</i>	Blue Grama	9
<i>Festuca ovina</i>	Sheep Fescue	9
<i>Lolium perenne</i>	Perennial Ryegrass	10
<i>Poa compressa</i>	Canada Bluegrass	9
<i>Poa pratensis</i>	Kentucky Bluegrass	10
<i>Zoysia japonica</i>	Zoysiagrass	10

## Vines

<i>Humulus lupulus</i>	Hops	8
<i>Hydrangea anomala</i> subsp. <i>petiolaris</i>	Climbing hydrangea	8
<i>Lonicera sempervirens</i>	'Magnifica' Trumpet Honeysuckle	8
<i>Lonicera</i> spp. & hybrids	Honeysuckle	8
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	8
<i>Vitis</i> spp.	Grapes	8
<i>Vitis vinifera</i>	'Purpurea' Purpleleaf Grape	8

## Annuals

<i>Eschscholzia californica</i>	California Poppy	10
<i>Lobularia maritima</i>	Sweet Alyssum	8

## Perennials

<i>Alchemilla</i> spp.	Lady's Mantle	8
<i>Allium cernuum</i>	Nodding Onion	10
<i>Allium christophii</i>	Star of Persia	10
<i>Allium geyeri</i>	Geyer Onion	10
<i>Allium karataviense</i>	'Ivory Queen' Onion	10
<i>Allium schubertii</i>	Tumbleweed Onion	10
<i>Aquilegia</i> spp.	Columbine	8
<i>Armeria maritima</i>	'Rubrifolia' Sea Thrift	8
<i>Armeria maritima</i>	Sea Thrift	8
<i>Asclepias tuberosa</i>	Orange Butterfly Weed	8
<i>Aster laevis</i>	Smooth Aster	8
<i>Aster porteri</i>	Porter Aster	8
<i>Astragalus utahensis</i>	Utah Milkvetch	8
<i>Bergenia cordifolia</i>	Bergenia	8
<i>Calochortus</i> spp.	Mariposa Lily	8
<i>Carex</i> spp.	Sedges	8
<i>Centranthus ruber</i>	Jupiter's Beard	10
<i>Convallaria majalis</i>	Lily of the Valley	8
<i>Coreopsis grandiflora</i>	'Grand Flying Saucers' Coreopsis	8
<i>Coreopsis rosea</i>	'Heavens Gate' Tickseed	8
<i>Coreopsis</i> spp.	Coreopsis	8
<i>Coreopsis tinctoria</i>	Prairie Coreopsis	8
<i>Dianthus gratianopolitanus</i>	'Tiny Rubies' Dianthus	9
<i>Dianthus gratianopolitanus</i>	'Firewitch' Dianthus	9
<i>Dianthus petraeus</i> v. <i>noeanus</i>	Dianthus	9

## Perennials continued

<i>Dianthus pinifolius</i>	Pineleaf Dianthus	9
<i>Dianthus simulans</i>	Pinks	9
<i>Dianthus sylvestris</i>	'Monte Baldo' Dianthus	9
<i>Diascia integerrima</i>	'Coral Canyon' Twinspur	9
<i>Erysimum linifolium</i>	Wallflower	9
<i>Euonymus fortunei</i>	Winter Creeper	8
<i>Euphorbia characias</i>	'Blackbird' Spurge	10
<i>Euphorbia polychroma</i>	Cushion Spurge	10
<i>Euphorbia x martinii</i>	'Mini Martini' Spurge	10
<i>Gaillardia grandiflora</i>	'Arizona Sun' Blanket Flower	8
<i>Gaillardia x aristata</i>	'Bijou' Blanket Flower	8
<i>Gaillardia x aristata</i>	'Oranges & Lemons' Blanket Flower	8
<i>Gaillardia x grandiflora</i>	'Goblin' Blanket Flower	8
<i>Geranium caespitosum</i>	Wild Geranium	8
<i>Geranium</i> spp.	Hardy Geraniums	8
<i>Geranium striatum</i>	Bloody Cranesbill	8
<i>Geum triflorum</i>	Prairie Smoke	8
<i>Helianthemum nummularium</i>	Rockrose	8
<i>Hemerocallis</i> hybrid	Daylillies	10
<i>Hosta</i> spp.	Hostas	8
<i>Iberis sempervirens</i>	'Little Gem' Candytuft	8
<i>Iris germanica</i>	Bearded Iris	8
<i>Kniphofia uvaria</i>	'Flamenco' Red Hot Poker	10
<i>Kniphofia uvaria</i>	Red-hot Poker	8
<i>Lathyrus odoratus</i>	'Winter Elegance' Sweet Pea	10
<i>Lathyrus</i> spp.	Sweet Pea	9
<i>Lilium</i> spp.	Lillies	10
<i>Linum perenne</i>	Blue Flax	8
<i>Lotus corniculatus</i>	Birdfoot Trefoil	8
<i>Lupinus</i> spp.	Lupine	8
<i>Medicago</i> hybrid	Grazer Alfalfa	10
<i>Medicago</i> hybrid	Creeping Alfalfa	10
<i>Medicago sativa</i>	'Ladak' Alfalfa	10
<i>Muscari armeniacum</i>	Grape Hyacinth	10
<i>Nierembergia gracilis</i>	'Starry Eyes'	8
<i>Oenothera berlanderi</i>	'Twilight' Primrose	8
<i>Oenothera speciosa</i>	Showy Primrose	8
<i>Papaver orientale</i>	Oriental Poppy	9
<i>Penstemon barbatus</i>	'Red Riding Hood' Penstemon	8
<i>Penstemon barrettiae</i>	Barrett's Beardtongue	8

## Perennials continued

<i>Penstemon cobaea</i>	Foxglove Penstemon	8
<i>Penstemon cyaneus</i>	Blue Penstemon	8
<i>Penstemon davidsonii</i> v. <i>davidsonii</i>	Davidson's Penstemon	8
<i>Penstemon eatonii</i>	Firecracker Penstemon	8
<i>Penstemon fruticosus</i>	Shrubby Penstemon	8
<i>Penstemon</i> hybrid	'Prairie Splendor' Penstemon	8
<i>Penstemon mexicali</i>	Beard Tongue Penstemon	8
<i>Penstemon pachyphyllus</i>	Thickleaf Penstemon	8
<i>Penstemon palmeri</i>	Palmer Penstemon	8
<i>Penstemon payettensis</i>	Payette Beardtongue	8
<i>Penstemon pinifolius</i>	Pineleaf Penstemon	8
<i>Penstemon pinifolius</i>	'Mersea Yellow' Penstemon	8
<i>Penstemon strictus</i>	Rocky Mountain Penstemon	8
<i>Penstemon whippleanus</i>	Whipple's Penstemon	8
<i>Polemonium</i> spp.	Jacobs Ladder	8
<i>Polygonatum commutatum</i>	Solomon's Seal	8
<i>Saxifraga hirsuta</i>	Saxifrage	8
<i>Scutellaria alpina</i>	'Moonbeam' Skullcap	8
<i>Solidago sphacelata</i>	'Golden Fleece' Goldenrod	8
<i>Thermopsis divaricarpa</i>	Spreadfruit Goldenbanner	8
<i>Trifolium</i> spp.	Clover	8
<i>Veronica pectinata</i>	Speedwell	8

## Shrubs

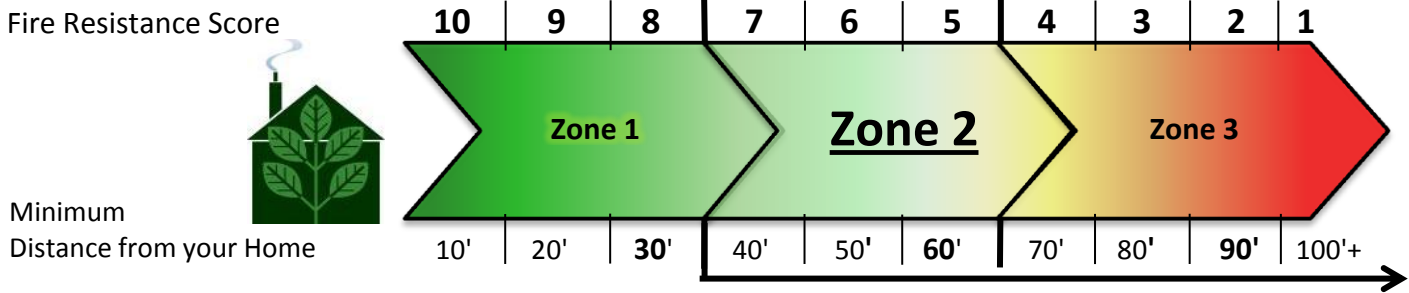
<i>Berberis thunbergii</i>	'Atropurpurea Nana' Crimson Pygmy Barberry	8
<i>Ceanothus americanus</i>	'New Jersey Tea' Ceanothus	8
<i>Cylindropuntia</i> spp.	Cholla Cactus	8
<i>Philadelphus coronarius</i>	'Aureus' Golden Leaf Mockorange	8
<i>Philadelphus</i> hybrid	'Buckley's Quill' Mockorange	8
<i>Philadelphus</i> hybrid	'Blizzard' Mockorange	8
<i>Philadelphus lewisii</i>	'Cheyenne' Mockorange	8
<i>Philadelphus pekinensis</i>	Peking Mockorange	8
<i>Philadelphus virginialis</i>	'Minnesota Snowflake' Mockorange	8
<i>Philadelphus</i> x hybrid	'Snowbelle' Mockorange	8
<i>Philadelphus</i> x <i>lemoinei</i>	'Manteau d'Hermine' Dwarf Mockorange	8
<i>Philadelphus</i> x <i>virginialis</i>	'Dwarf Snowflake' Mockorange	8
<i>Rhus trilobata</i>	'Autumn Amber' Sumac	8
<i>Symphoricarpos albus</i>	Snowberry	8
<i>Yucca filamentosa</i>	'Ivory Tower' Yucca	8
<i>Yucca glauca</i>	Great Plains Yucca	8

## ***Deciduous***

<i>Malus</i> hybrid	'Dolgo' Crabapple	<b>8</b>
<i>Malus</i> hybrid	'Cinderella' Dwarf Crabapple	<b>8</b>
<i>Malus sargentii</i>	'Roselow' Sargent Crabapple	<b>8</b>
<i>Rhus glabra</i>	Smooth Sumac	<b>8</b>



# Zone 2 Species List count 235



\*Fire Resistance Score correlates to the respective Firewise Zone and minimum suggested distance from your home.

Example: A species with a Fire Resistance Score of 9 could be located 20' or greater from your home.

Botanical name	Native	Common name	Fire Resistance Score
<b>Succulents</b>			
<i>Agave havardiana</i>		Century Plant	<b>7</b>
<i>Hesperaloe parviflora</i>		Texas Red Yucca	<b>7</b>

## Groundcovers

<i>Arctostaphylos uva-ursi</i>		Kinnikinnick	<b>5</b>
<i>Artemisia caucasica</i>		Caucasica Sage	<b>6</b>
<i>Artemisia viridis</i>		'Tiny Green' Creeping Artemisia	<b>6</b>
<i>Bellium minutum</i>		Miniature Mat Daisy	<b>7</b>
<i>Phlox subulata</i>		Creeping Phlox	<b>7</b>
<i>Stachys byzantina</i>		'Helen Von Stein' Lamb's Ear	<b>6</b>
<i>Stachys byzantina</i>		Lamb's Ear	<b>5</b>
<i>Stachys byzantina</i>		'Silver Carpet' Lamb's Ear	<b>6</b>
<i>Stachys monieri</i>		'Hummelo' Betony	<b>5</b>
<i>Thymus praecox</i>		Creeping Thyme	<b>6</b>
<i>Thymus praecox arcticus</i>		Mother of Thyme	<b>6</b>

## Vines

<i>Actinidia kolomikta</i>		'Arctic Beauty' Kiwi Vine	<b>6</b>
<i>Akebia</i>		Akebia	<b>6</b>
<i>Bignonia capreolata</i>		'Dragon Lady' Crossvine	<b>6</b>
<i>Campsis radicans</i>		Trumpet vine	<b>6</b>
<i>Campsis x tagliabuana</i>		'Madame Galen' Trumpet Creeper	<b>6</b>
<i>Clematis spp.</i>		Clematis	<b>6</b>
<i>Clematis terniflora</i>		Sweet Autumn Clematis	<b>5</b>

## Vines continued

<i>Lycium barbarum</i>	Matrimony Vine	6
<i>Polygonum aubertii</i>	Silver Lace Vine	6
<i>Wisteria</i> spp.	Wisteria	6

## Annuals

<i>Cleome serrulata</i>	Rocky Mountain Bee Plant	5
<i>Hordeum vulgare</i>	Barley	7
<i>Lolium temulentum</i>	Annual Ryegrass	5
<i>Mirabilis jalapa</i>	Four O'clock	7
<i>Papaver</i> spp.	Annual Poppy	7
<i>Viola</i> spp.	Johnny Jump-up	5

## Perennials

<i>Acantholimon hohenackeri</i>	Prickly Dianthus	7
<i>Alcea rosea</i>	Hollyhock	5
<i>Alcea rosea</i>	'Peaches & Dreams' Hollyhock	5
<i>Anemone blanda</i>	Grecian Windflowers	7
<i>Arabis</i> spp.	Rockcress	7
<i>Artemisia arborescens</i>	'Powis Castle' Artemisia	6
<i>Artemisia arbotanum</i>	'Tangerine' Sage	5
<i>Artemisia frigida</i>	Fringed Sage	5
<i>Artemisia ludoviciana</i>	Prairie Sage	5
<i>Artemisia</i> spp.	Wormwood	7
<i>Artemisia stellerana</i>	Dusty Miller	7
<i>Baptisia</i> hybrid	'Twilite Prairieblues' False Indigo	7
<i>Baptisia sphaerocarpa</i>	Yellow Baptisia	7
<i>Chrysanthemum maximum</i>	Shasta Daisy	5
<i>Cistus purpureus</i>	Orchid Rockrose	5
<i>Delphinium</i> spp.	Delphinium	7
<i>Echinacea angustifolia</i>	Narrow-leaved Coneflower	7
<i>Echinacea</i> hybrid	'Pixie Meadowbrite' Coneflower	7
<i>Echinacea</i> hybrid	'Arts Pride' Coneflower	7
<i>Echinacea</i> hybrid	'Harvest Moon' Coneflower	7
<i>Echinacea</i> hybrid	'Sunrise' Coneflower	7
<i>Echinacea paradoxa</i>	Ozark Coneflower	7
<i>Echinacea pupurea</i>	Purple Coneflower	7
<i>Echinacea purpurea</i>	'Kim's Knee High' Coneflower	7
<i>Echinacea purpurea</i>	'Red Knee High' Coneflower	7

## Perennials continued

<i>Echinacea purpurea</i>	'Jade' Coneflower	7
<i>Echinacea purpurea</i>	'Tiki Torch' Coneflower	7
<i>Echinacea x tennesseensis</i>	'Rocky Top' Coneflower	7
<i>Epilobium angustifolium</i>	Fireweed	7
<i>Erigeron linearis</i>	Desert Yellow Fleabane	7
<i>Eriogonum umbellatum</i>	Sulphur Buckwheat	7
<i>Gaillardia aristata</i>	Blanket Flower	7
<i>Helianthella quinquenervis</i>	Aspen Sunflower	7
<i>Helianthus pumilus</i>	Small Sunflower	7
<i>Helianthus salicifolius</i>	'Low Down' Willow-leaved Sunflower	7
<i>Heuchera</i> spp.	Coral Bells	7
<i>Hymenoxys scaposa</i>	Thrift-leaf Perky Sue	7
<i>Lewisia x longipetala</i>	'Little Plum' Lewisia	7
<i>Liatris aspera</i>	Tall Blazing Star	7
<i>Liatris punctata</i>	Dotted Gay Feather	7
<i>Limonium latifolium</i>	Sea Lavender	7
<i>Linum lewisii</i>	Wild Blue Flax	7
<i>Mirabilis multiflora</i>	Desert Four-o'clock	7
<i>Nepeta subsessilis</i>	Catmint	5
<i>Oenothera caespitosa</i>	White Stemless Evening Primrose	7
<i>Oenothera macrocarpa</i>	Missouri Evening Primrose	7
<i>Oenothera</i> spp.	Evening Primrose	7
<i>Pelargonium endlicherianum</i>	Turkish Pelargonium	7
<i>Penstemon alamosensis</i>	Los Alamos Beardtongue	7
<i>Penstemon alamosensis</i>	'Alamo Canyon' Penstemon	7
<i>Penstemon anguineus</i>	Siskiyou Beardtongue	7
<i>Penstemon arenicola</i>	Sand Penstemon	7
<i>Penstemon cardwellii</i>	Cardwell's Beardtongue	7
<i>Penstemon</i> hybrid	'Bronco Orange' Penstemon	7
<i>Phlox kelseyi</i>	'Lemhi Purple' Phlox	7
<i>Phlox paniculata</i>	'Violet Flame' Phlox	7
<i>Phlox subulata</i>	'Scarlet Flame' Creeping Phlox	7
<i>Potentilla fissa</i>	Leafy Potentilla	7
<i>Pulsatilla patens</i>	Pasque Flower	7
<i>Ratibida columnifera</i>	Mexican Hat	7
<i>Rudbeckia fulgida</i>	'Goldstrum' Black-eyed Susan	7
<i>Rudbeckia fulgida</i>	'Viette's Little Suzy' Black-eyed Susan	7
<i>Rudbeckia fulgida</i> v. <i>fulgida</i>	Brown-eyed Susan	7
<i>Rudbeckia fulgida</i> v. <i>sullivantii</i>	'Little Goldstar' Rudbeckia	7

## Perennials continued

<i>Rudbeckia hirta</i>	Black-eyed Susan	7
<i>Rudbeckia hirta</i> hybrid	'Cherry Brandy' Rudbeckia	7
<i>Rudbeckia maxima</i>	Giant Coneflower	7
<i>Sanguisorba minor</i>	Small Burnet	7
<i>Sanguisorba obtusa</i>	Burnet	7
<i>Scutellaria baicalensis</i>	Chinese Skullcap	7
<i>Scutellaria brittonii</i>	Skullcap	7
<i>Scutellaria resinosa</i>	'Smoky Hills' Skull Cap	7
<i>Scutellaria</i> spp.	Skullcap	7
<i>Senecio spartioides</i>	Broom Groundsel	7
<i>Senecio</i> spp.	Groundsel	7
<i>Solidago</i> spp.	Goldenrod	7
<i>Sphaeralcea munroana</i>	Orange Globemallow	7
<i>Sphaeralcea</i> spp.	Globemallow	7
<i>Teucrium aroanium</i>	Grey Creeping Germander	7
<i>Teucrium chamaedrys</i>	Germander	7
<i>Teucrium cossoni</i>	Germander	7
<i>Thalictrum fendleri</i>	Fendler Meadowrue	7
<i>Tradescantia occidentalis</i>	Western Spiderwort	7
<i>Xerophyllum tenax</i>	Beargrass	5
<i>Zauschneria garrettii</i>	'Mountain Flame' California Fuchsia	7
<i>Zauschneria garrettii</i>	'Orange Carpet' Trumpet Flower	7

## Shrubs

<i>Abeliophyllum distichum</i>	White Forsythia	6
<i>Amelanchier alnifolia</i>	'Regent' Dwarf Serviceberry	6
<i>Amelanchier alnifolia</i>	Saskatoon Serviceberry	5
<i>Amelanchier arborea</i>	'Autumn Brilliance' Downy Serviceberry	5
<i>Aronia arbutifolia</i>	Brilliant Red Chokeberry	5
<i>Aronia melanocarpa</i>	Black Chokeberry	6
<i>Atriplex canescens</i>	Four-wing Saltbush	6
<i>Atriplex confertifolia</i>	Shadscale Saltbush	5
<i>Atriplex gardneri</i>	Gardner's Saltbush	6
<i>Berberis</i> spp.	Crimson Barberry	6
<i>Buddleia davidii</i>	Butterflybush	5
<i>Caragana arborescens</i>	Siberian Peashrub	5
<i>Caragana microphylla</i>	Little Leaf Peashrub	5
<i>Caragana rosea</i>	Red Flower Pea Shrub	6
<i>Ceanothus</i> hybrid	'South Mead' Ceanothus	7

## Shrubs continued

<i>Ceanothus pallidus</i>	'Marie Simon' Ceanothus	7
<i>Ceanothus x delilianus</i>	'Gloire de Versailles' Ceanothus	7
<i>Chaenomeles japonica</i>	Dwarf Flowering Quince	5
<i>Chaenomeles speciosa</i>	Common Flowering Quince	5
<i>Chaenomeles x superba</i>	'Texas Scarlet' Quince	6
<i>Chaenomeles x superba</i>	'Jet Trail' Flowering Quince	6
<i>Chaenomeles x superba</i>	'Spitfire' Quince	6
<i>Cornus sericea</i>	'Kelseyi' Dogwood	6
<i>Cornus sericea</i>	Red-osier Dogwood	5
<i>Cotoneaster adpressa</i>	'Praecox' Creeping Cotoneaster	7
<i>Cotoneaster dammeri</i>	'Mooncreeper' Bearberry	7
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster	7
<i>Cotoneaster horizontalis</i>	Spreading Cotoneaster	6
<i>Cotoneaster integerrimus</i>	'Centennial' Cotoneaster	5
<i>Cotoneaster microphyllus</i>	'Thymifolius' Thyme leaf Cotoneaster	6
<i>Daphne genkwa</i>	Rose Daphne	7
<i>Daphne x burkwoodii</i>	'Carol Mackie' Burkwood Daphne	6
<i>Ephedra viridis</i>	Mormon Tea	6
<i>Euonymus alata</i>	'Compacta' Burning Bush	6
<i>Forsythia hybrid</i>	'Arnold's Dwarf' Forsythia	6
<i>Forsythia hybrid</i>	'Goldilocks' Forsythia	6
<i>Forsythia hybrid</i>	'Sunrise' Forsythia	6
<i>Forsythia suspensa</i>	Weeping Forsythia	6
<i>Forsythia x intermedia</i>	'Lynwood Gold' forsythia	6
<i>Forsythia x intermedia</i>	'Spring Glory' Forsythia	6
<i>Forsythia x intermedia</i>	Forsythia	5
<i>Forsythia x intermedia</i>	'Beatrix Farrand' Forsythia	5
<i>Hamamelis virginiana</i>	Common Witch Hazel	5
<i>Jasminum nudiflorum</i>	Weeping Winter Jasmine	7
<i>Kerria japonica</i>	'Pleniflora' Golden Guinea Kerria	6
<i>Kerria japonica</i>	Japanese Kerria	5
<i>Kochia prostrata</i>	Forage Kochia	7
<i>Ligustrum vulgare</i>	'Lodense' Privet	6
<i>Ligustrum vulgare</i>	Common Privet	5
<i>Mahonia haematocarpa</i>	Red Oregon Grape	6
<i>Philadelphus lewisii</i>	Syringa, Mockorange	7
<i>Philadelphus scaber</i>	Korean Mockorange	7
<i>Philadelphus tomentosus</i>	Kashmir Mockorange	7
<i>Philadelphus x lemoinei</i>	'Innocence' Mockorange	7
<i>Physocarpus malvaceus</i>	Ninebark	5

## Shrubs continued

<i>Physocarpus opulifolius</i>	'Dart's Gold' Ninebark	5
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	5
<i>Potentilla fruticosa</i>	'Pink Beauty' Potentilla	5
<i>Prunus americana</i>	American Plum	5
<i>Prunus emarginata</i>	Bitter Cherry	5
<i>Prunus pumila</i>	Sandcherry	6
<i>Prunus pumila</i> v. <i>besseyi</i>	'Pawnee Buttes' Sandcherry	7
<i>Prunus pumila</i> v. <i>besseyi</i>	Western Sandcherry	6
<i>Prunus tomentosa</i>	Nanking Cherry	6
<i>Prunus virginiana</i>	Chokecherry	5
<i>Pyracantha angustifolia</i>	'Gnozam' Pyracantha	6
<i>Rhamnus frangula</i>	'Asplenifolia' Alderleaf Buckthorn	6
<i>Rhus aromatica</i>	'Gro-Low' Sumac	7
<i>Rhus trilobata</i>	Oak-leaf Sumac	7
<i>Rhus typhina</i>	'Laciniata' Cut-leaf Sumac	7
<i>Ribes aureum</i>	Golden Currant	6
<i>Ribes odoratum</i>	'Crandall' Clove-scented Currant	6
<i>Ribes sanguineum</i>	Redflower Currant	6
<i>Rosa</i> hybrid	'Nearly Wild' Rose	6
<i>Rosa</i> hybrid	'John Cabot' Rose	5
<i>Rosa woodsii</i>	Woods' Rose	5
<i>Rubus</i> spp.	Raspberries	6
<i>Salix caprea</i>	French Pussy Willow	5
<i>Salix integra</i>	'Hakuro Nishiki' Dappled Willow	5
<i>Salix lutea</i>	Golden Willow	5
<i>Salix purpurea</i>	'Nana' Dwarf Blue Arctic Willow	6
<i>Salix scouleriana</i>	Scouler Willow	5
<i>Sambucus cerulea</i>	Blue Elderberry	7
<i>Shepherdia argentea</i>	Silver Buffaloberry	6
<i>Shepherdia canadensis</i>	Russet Buffaloberry	7
<i>Shepherdia rotundifolia</i>	Roundleaf Buffaloberry	7
<i>Syringa</i> hybrid	'Tinkerbelle' Lilac	7
<i>Syringa vulgaris</i>	Lilac	5

## Deciduous Trees

<i>Acer glabrum</i>	Rocky Mountain Maple	6
<i>Acer grandidentatum</i>	Bigtooth maple	6
<i>Acer negundo</i>	Boxelder	5
<i>Acer</i> spp.	Maple	5

### **Deciduous Trees continued**

<i>Acer tatericum</i> subsp. <i>ginnala</i>	Amur Maple	<b>6</b>
<i>Aesculus hippocastanum</i>	Horsechestnut	<b>6</b>
<i>Aesculus hippocastanum</i>	'Braumannii' Horse Chestnut	<b>6</b>
<i>Alnus tenuifolia</i>	Thinleaf Alder	<b>6</b>
<i>Catalpa speciosa</i>	Northern Catalpa	<b>5</b>
<i>Celtis reticulata</i>	Netleaf Hackberry	<b>6</b>
<i>Cercis canadensis</i>	Eastern Redbud	<b>6</b>
<i>Chilopsis linearis</i>	'Art's Seedless' Desert Willow	<b>7</b>
<i>Chilopsis linearis</i>	'Bubba' Desert Willow	<b>7</b>
<i>Chilopsis linearis</i>	'Monhews' Desert Willow	<b>7</b>
<i>Cornus florida</i>	Flowering Dogwood	<b>6</b>
<i>Cotinus coggyria</i>	Purple Smoketree	<b>5</b>
<i>Crataegus columbiana</i>	Columbia Hawthorne	<b>7</b>
<i>Crataegus crus-galli</i>	'Cruzan' Crusader Hawthorne	<b>7</b>
<i>Crataegus douglasii</i>	Douglas Hawthorne	<b>7</b>
<i>Fraxinus cuspidata</i>	Fragrant Flowering Ash	<b>6</b>
<i>Prunus pennsylvanica</i>	Wild Red Cherry	<b>6</b>
<i>Prunus virginiana</i>	Chokecherry	<b>6</b>
<i>Quercus gambelii</i>	Gambel Oak	<b>6</b>
<i>Rhamnus purshiana</i>	Cascara	<b>7</b>
<i>Salix alba</i>	Golden Willow	<b>5</b>
<i>Salix</i> spp.	Willow	<b>6</b>
<i>Sorbus aucuparia</i>	European Mountain-ash	<b>6</b>

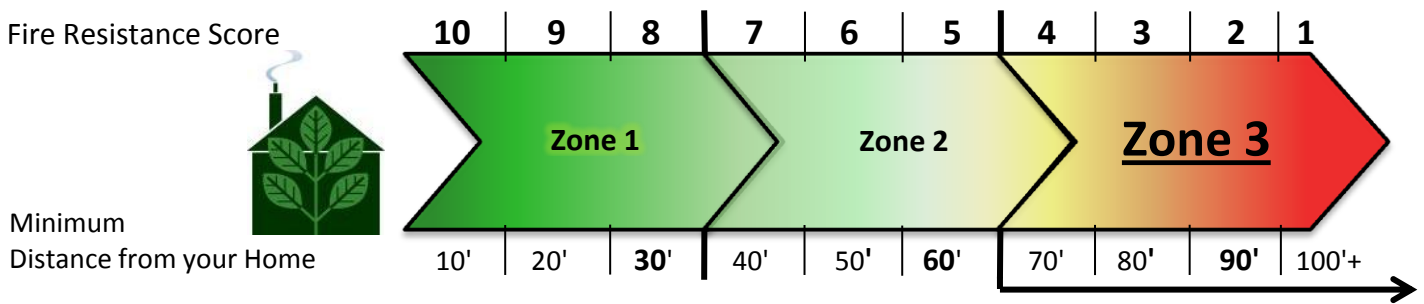
### **Grasses**

<i>Dactylis glomerata</i>	Orchardgrass	<b>5</b>
<i>Festuca glauca</i>	Fescue	<b>6</b>
<i>Festuca idahoensis</i>	Idaho Fescue	<b>6</b>
<i>Poa secunda</i>	Sandberg Bluegrass	<b>6</b>
<i>Poa secunda</i> v. <i>Mountain Home</i>	Mountain Home Sandberg Bluegrass	<b>6</b>

### **Conifer Trees**

<i>Larix kaempferi</i>	'Blue Rabbit' Japanese Larch	<b>5</b>
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## Zone 3 Species List count 44



\*Fire Resistance Score correlates to the respective Firewise Zone and minimum suggested distance from your home.

Example: A species with a Fire Resistance Score of 9 could be located 20' or greater from your home.

Botanical name	Native	Common name	Fire Resistance Score
<b>Perennials</b>			
<i>Gilia aggregata</i>		Scarlet Gilia	<b>3</b>
<i>Nepeta faassenii</i>		'Walker's Low' Catmint	<b>4</b>

### Shrubs

<i>Arctostaphylos nevadensis</i>		Pinemat Manzanita	<b>4</b>
<i>Arctostaphylos x coloradensis</i>		Panchito Manzanita	<b>3</b>
<i>Caryopteris x clandonensis</i>		Blue Mist Spirea	<b>2</b>
<i>Ceanothus sanguineus</i>		Redstem Ceanothus	<b>4</b>
<i>Cercocarpus montanus</i>		True Mountain Mahogany	<b>3</b>
<i>Chrysothamnus nauseosus</i>		Gray Rabbitbrush	<b>3</b>
<i>Chrysothamnus viscidiflorus</i>		Green Rabbitbrush	<b>2</b>
<i>Mahonia aquifolium</i>		'Compactum' Oregon Grape	<b>4</b>
<i>Mahonia repens</i>		Creeping Oregon Grape	<b>4</b>
<i>Physocarpus opulifolius</i>		Tall Ninebark	<b>2</b>
<i>Salvia pachyphylla</i>		'Blue Flame' Sage	<b>3</b>

### Deciduous Trees

<i>Alnus glutinosa</i>		Black Alder	<b>4</b>
<i>Alnus</i> spp.		Alder	<b>4</b>
<i>Betula occidentalis</i>		Water Birch	<b>4</b>
<i>Carya</i> spp.		Hickory	<b>1</b>
<i>Celtis occidentalis</i>		Common Hackberry	<b>4</b>
<i>Diospyros virginiana</i>		Common Persimmon	<b>4</b>



### **Deciduous Trees continued**

<i>Gleditsia tricanthos</i>	Honey Locust	<b>4</b>
<i>Gymnocladus dioicus</i>	Kentucky Coffee Tree	<b>4</b>
<i>Juglans nigra</i>	Black Walnut	<b>4</b>
<i>Liquidambar styraciflua</i>	Sweetgum	<b>4</b>
<i>Liriodendron tulipifera</i>	Tuliptree	<b>4</b>
<i>Quercus alba</i>	White Oak	<b>4</b>
<i>Quercus bicolor</i>	Swamp White Oak	<b>4</b>
<i>Quercus macrocarpa</i>	Bur Oak	<b>4</b>
<i>Quercus rubra</i>	Red Oak	<b>4</b>

### **Non-Turf Grasses**

<i>Agropyron cristatum</i>	Crested Wheatgrass	<b>4</b>
<i>Agropyron smithii</i>	Western Wheatgrass	<b>4</b>
<i>Agropyron spicatum</i>	Bluebunch Wheatgrass	<b>4</b>
<i>Koeleria macrantha</i>	Prairie Junegrass	<b>4</b>
<i>Sporobolus cryptandrus</i>	Sand Dropseed	<b>4</b>
<i>Schizachyrium scoparium</i>	Little Bluestem	<b>3</b>
<i>Elymus elymoides</i>	Squirreltail Grass	<b>3</b>
<i>Leymus cinereus</i>	Great Basin Wildrye	<b>2</b>
<i>Achnatherum hymenoides</i>	Indian Ricegrass	<b>1</b>
<i>Hesperostipa comata</i>	Needle & Thread	<b>1</b>

### **Conifer Trees**

<i>Larix laricina</i>	Eastern Larch	<b>4</b>
<i>Larix occidentalis</i>	Western Larch	<b>4</b>
<i>Pinus ponderosa</i>	Ponderosa Pine	<b>1</b>
<i>Pinus jeffreyi</i>	Jeffrey Pine	<b>1</b>
<i>Pseudotsuga menziesii v. glauca</i>	Rocky Mountain Douglas Fir	<b>1</b>
<i>Sequoiadendron giganteum</i>	Giant Sequoia	<b>1</b>

## Numerical Scoring for Fire Resistance & Zone Choice

### Succulent Species

**Moisture Content**

High = 2.5pts.



Med = 2 pts.



Low = 0 pt.

**Mineral Content**

High = 2.5 pts.



Med = 1 pts.



Low = 0 pt.

**Volatile Oil Content**

Low = 2.5 pts.



Med = 1 pts.



High = 0 pt.

**Height**

Short = 2.5  
pts.



Med = 2 pts.



Tall= 1 pt.

Short: < 12"

Med: 12" - 24"

Tall: > 24"

## Succulents

Succulents are water-retaining plants adapted to arid climates. Succulents generally have a swollen or fleshy appearance.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability		Decreases Flammability						
Botanical Name	Common Name	Score For Fire Resistance	Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Agave havardiana</i>	Century Plant	7	High	Med	Low	30" x 36"	5	Full	Low	
<i>Hesperaloe parviflora</i>	Texas Red Yucca	7	Med	Med	Low	48" x 36"	5	Full	Low	
<i>Opuntia</i> spp.	Prickly Pear Cactus	10	High	High Salt	Low	24" x 24"	3	Full	Low	
<i>Sedum lanceolatum</i>	Yellow Stonecrop	10	High	High Soap	Low	4" x 12"	3	Full	Low	
<i>Sedum reflexum</i>	'Blue Spruce' Stonecrop	10	High	High Soap	Low	6" x 24"	3	Full-PS	Med	
<i>Sedum rupestre</i>	'Angelina' Stonecrop	10	High	High Soap	Low	6" x 20"	4	Full	Low	Nice orange/red fall color
<i>Sedum sichotense</i>	Stonecrop	10	High	High Soap	Low	3" x 6"	4	Full	Low	
<i>Sedum sieboldii</i>	October Daphne Stonecrop	10	High	High Soap	Low	4" x 12"	5	Full	Low	
<i>Sedum spathulifolium</i>	'Cape Blanco' Stonecrop	10	High	High Soap	Low	5" x 18"	4	Full	Low	
<i>Sedum</i> spp.	Stonecrop	10	High	High Soap	Low	Variable	4	Full	Low-Med	
<i>Sedum spurium</i>	'Blaze of Fulda' Stonecrop	10	High	High Soap	Low	3" x 24"	3	Full	Med	
<i>Sedum spurium</i>	'Dragon's Blood' Stonecrop	10	High	High Soap	Low	4" x 12"	5	Full-PS	Low	
<i>Sedum telephium</i>	'Black Jack' Autumn Stonecrop	10	High	High Soap	Low	24" x 24"	4	Full	Med	
<i>Sedum telephium</i>	'Matrona' Stonecrop	10	High	High Soap	Low	24" x 24"	5	Full	Low	
<i>Sempervivum</i> spp.	Hens & Chicks	10	High	High Soap	Low	6" x 18"	4	F-PS	Low	

## Numerical Scoring for Fire Resistance & Zone Choice

### Groundcover Species

**Moisture Content**

High = 2.5 pts.



Med = 2 pts.



Low = 0 pt.

**Mineral Content**

High = 2 pts.



Med = 1.5 pts.



Low = 0 pt.

**Volatile Oil Content**

Low = 2.5 pts.



Med = 0 pts.



High = 0 pt.

**Height**

Short = 3 pts.



Med = 2.5 pts.



Tall = 0 pt.

Short: < 12"

Med: 12" - 24"

Tall: > 24"

## Groundcovers

Groundcovers are plants that cover the ground generally in place of grass

\*Regular maintenance, pruning flower stalks and cutting back as needed improves fire resistance for all groundcovers.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability		Decreases Flammability						
Botanical Name	Common Name	Score For Fire Resistance	Moisture Content on 4th of July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Aegopodium podagraria</i>	'Variegatum' Bishop's Weed	8	High	Low	Low	24" x 24"	4	Full-PS	Med-High	Very invasive and aggressive if regularly watered, prune back each year
<i>Ajuga reptans</i>	Ajuga	8	High	Low	Low	4" x 24"	4	PS-S	High	
<i>Antennaria dioica</i>	'Rubra' Pussytoes	8	Med	Low	Low	6" x 12"	1	Full	Low	
<i>Antennaria microphylla</i>	Little-leaf Pussytoes	8	Med	Low	Low	6" x 18"	5	Full	Low	
<i>Antennaria parvifolia</i>	Small-leaf Pussytoes	8	Med	Low	Low	2" x 24"	4	Full	Low	
<i>Antennaria rosea</i>	Rosy Pussytoes	8	Med	Low	Low	1" x 24"	3	Full	Low	
<i>Arabis</i> spp.	Rockcress	8	Med	Low	Low	6" x 6"	4	Full	Med	
<i>Arctostaphylos uva-ursi</i>	Kinnikinnick	5	Med	Low	Med	6" x 48"	3	Full-PS	Med	Sub-shrub-woody, slow growing
<i>Artemisia caucasica</i>	Caucasica Sage	6	High	Low	Med	5" x 24"	3	Full	Low	Prostrate low grower
<i>Artemisia viridis</i>	'Tiny Green' Creeping Artemisia	6	High	Low	Med	2" x 8"	4	Full-PS	Low	Needs some shade
<i>Aubrieta</i> spp.	False Rockcress	8	Med	Low	Low	2" x 15"	4	S	Med	
<i>Aurinia saxatilis</i>	Basket-of-Gold	8	High	Low	Low	2" x 15"	5	PS-S	High	
<i>Bellium minutum</i>	Miniature Mat Daisy	7	Med	Low	Low	12" x 36"	4	Full-PS	Med	
<i>Callirhoe involucrata</i>	Poppy Mallow	8	High	Low	Low	6" x 36"	3	Full	Med	
<i>Cerastium alpinum</i> v. <i>lanthanum</i>	Alpine Mouse-Ears	8	High	Low	Low	3" x 12"	3	Full	Low	Prefers a colder climate
<i>Cerastium tomentosum</i>	Snow-in-Summer	8	High	Low	Low	8" x 48"	3	Full-PS	Med	

## Groundcovers

Groundcovers are plants that cover the ground generally in place of grass

\*Regular maintenance, pruning flower stalks and cutting back as needed improves fire resistance for all groundcovers.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability		Decreases Flammability						
Botanical Name	Common Name	Score For Fire Resistance	Moisture Content on 4th of July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Ceratostigma plumbaginoides</i>	Hardy Plumbago	8	High	Low	Low	6" x 48"	3	Full-S	Low	Rhizomatous
<i>Convallaria majalis</i>	Lily-of-the-Valley	10	High	High	Low	2" x 8"	5	Full-PS	Low	Spreads vegetatively
<i>Delosperma basuticum</i>	White Eyed Ice Plant	10	High	High	Low	1" x 24"	5	Full	Low	Good, may winter kill at mid-high elevations
<i>Delosperma cooperi</i>	Pink Iceplant	10	High	High	Low	1" x 24"	4	Full-PS	Low-Med	
<i>Delosperma</i> hybrid	'John Proffit' Ice Plant	10	High	High	Low	1" x 24"	5	Full	Low	May winter kill at mid-high elevations
<i>Delosperma nubigenum</i>	Yellow Iceplant	10	High	High Soap	Low	1" x 24"	4	Full-PS	Low	
<i>Echeveria</i> spp.	Hens & Chicks	8	High	Low	Low	6" x 24"	4	Full	Med	
<i>Ephedra regeliana</i>	Creeping Ephedra	8	High	Low	Low	6" x 24"	4	Full	High	
<i>Fragaria</i> spp.	Wild Strawberries	9	Med	Med Pectin	Low	8" x 48"	3	Full-PS	Med	
<i>Galium boreale</i>	Northern Bedstraw	8	Med	Low	Low	8" x 48"	3	Shade	Med	Shade only
<i>Galium odoratum</i>	Sweet Woodruff	8	Med	Low	Low	8" x 24"	4	Shade	Med	Shade only
<i>Lamium</i> spp.	Dead Nettle	8	Med	Low	Low	10" x 24"	5	Full	Med	
<i>Liriope</i> spp.	Liriope	8	Med	Low	Low	4" x 24"	4	Full	Med	
<i>Marrubium rotundifolium</i>	Silver Edged Horehound	8	High	Low	Low	10" x 18"	5	Full	Low	
<i>Nierembergia repens</i>	Creeping White Cup	8	High	Low	Low	4" x 24"	7	Full-PS	Med	
<i>Pachysandra terminalis</i>	'Green Sheen' Spurge	8	High	Low	Low	8" x 15"	4	Shade-PS	Med	

## Groundcovers

Groundcovers are plants that cover the ground generally in place of grass

\*Regular maintenance, pruning flower stalks and cutting back as needed improves fire resistance for all groundcovers.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability		Decreases Flammability						
Botanical Name	Common Name	Score For Fire Resistance	Moisture Content on 4th of July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Penstemon caespitosus</i>	Mat Penstemon	8	High	Low	Low	8" x 48"	4	Full-PS	Med	
<i>Penstemon davidsonii</i>	Davidson's Penstemon	8	High	Low	Low	2" x 12"	4	Full-PS	Low	Short lived below 3,000 ft.;
<i>Penstemon davidsonii v. menziesii</i>	'Microphyllus' Green Mat Penstemon	8	High	Low	Low	2" x 12"	4	Full-PS	Low	
<i>Phlox subulata</i>	Creeping Phlox	7	Med	Low	Low	24" x 36"	4	Full	Med	
<i>Saponaria ocymoides</i>	'Alba' White Flowered Soapwort	10	High	High Soap	Low	6" x 24"	4	Full	Low-Med	Drought tolerant but does best with medium water
<i>Saponaria ocymoides</i>	Rock Soapwort	10	High	High Soap	Low	6" x 24"	5	Full-PS	Med	The best <i>Saponaria</i>
<i>Saponaria officinalis</i>	Bouncing Bett	10	High	High Soap	Low	10" x 18"	4	Full	Med	<b>Can be invasive;</b> do not use especially in riparian areas in arid zones
<i>Saponaria x lempergii</i>	Giant Flowered Soapwort	8	High	Low	Low	6" x 48"	4	Full	Med	
<i>Stachys byzantina</i>	'Helen Von Stein' Lamb's Ear	6	Med	Low	Med	12" x 24"	5	Full-PS	Low	
<i>Stachys byzantina</i>	Lamb's ear	5	Med	Low	Med	4" x 24"	5	Full	Med	
<i>Stachys byzantina</i>	'Silver Carpet' Lamb's Ear	6	Med	Low	Med	5" x 18"	4	Full	Low	
<i>Stachys monieri</i>	'Hummelo' Betony	5	Med	Low	Med	20" x 15"	4	Full	Low	
<i>Thymus praecox</i>	Creeping Thyme	6	High	Low	Med	2" x 48"	4	Full	Med	
<i>Thymus praecox arcticus</i>	Mother of Thyme	6	High	Low	Med	4" x 48"	4	Full	Med	
<i>Thymus serpyllum</i>	'Minus' Creeping Thyme	8	High	Low	Low	6" x 24"	4	Full-PS	Med	

# Groundcovers

Groundcovers are plants that cover the ground generally in place of grass

\*Regular maintenance, pruning flower stalks and cutting back as needed improves fire resistance for all groundcovers.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability		Decreases Flammability			Hardy to Zone	Sun or Shade	Water Needs	
<b>Botanical Name</b>	<b>Common Name</b>	Score For Fire Resistance	Moisture Content on 4th of July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width				
<i>Veronica liwanensis</i>	Turkish Speedwell	8	High	Low	Low	1/2" x 24"	4	Full-PS	Low	
<i>Veronica oltensis</i>	Thyme-leaf Speedwell	8	High	Low	Low	1/2" x 24"	3	Full-PS	Med	Can be invasive if irrigated, economical,
<i>Vinca minor</i>	Periwinkle	8	High	Low	Low	6" x 12"	4	S	Med	
<i>Waldsteinia</i> spp.	Barren Strawberry	8	High	Low	Low	8" x 8"	4	PS-S	Med	



## Numerical Scoring for Fire Resistance & Zone Choice

### Turf Grasses

\*Non- Turf grass species are listed in a separate section. (pages 60 - 61)

#### Moisture Content

High = 3.0 pts.



Med = 2 pts.



Low = 0 pt.

#### Mineral Content

High = 0.5 pts.



Med = 0.5 pts.



Low = 0 pt.

#### Volatile Oil Content

Low = 2.5 pts.



Med = 0 pts.



High = 0 pt.

#### Height

Short = 4.0  
pts.



Med = 2 pt.



Tall= 0 pt.

Short: < 4"

Med: 4"- 10"

Tall: > 10"

## Turf Grass Species

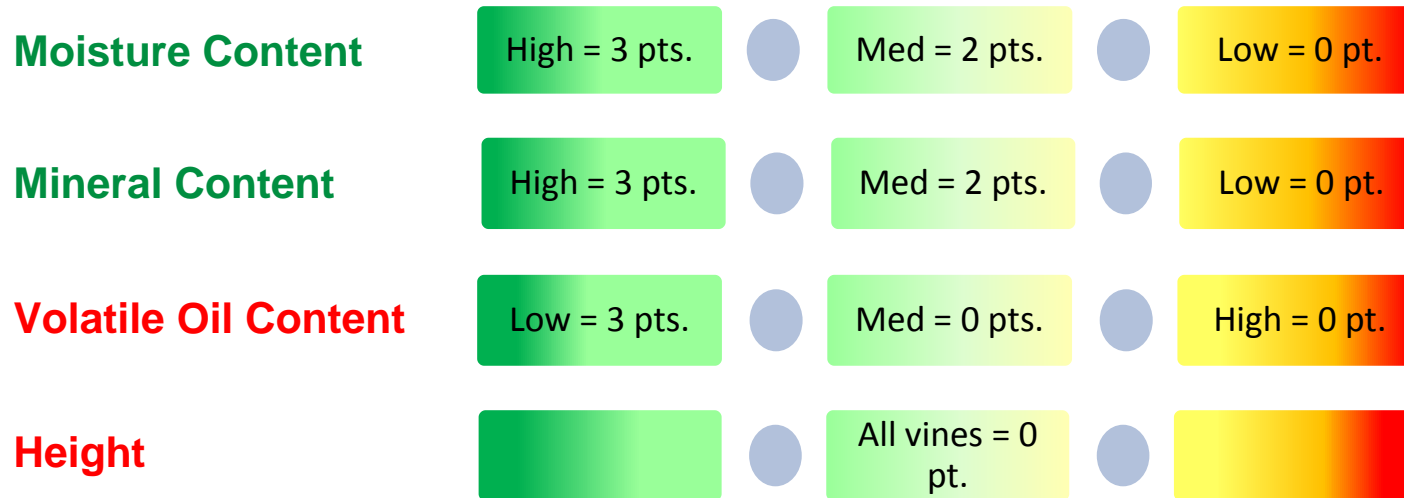
\*Non-Turf grass species are listed in a separate section (pgs. 60 - 61).  
Turf grass species are monocots in the Poaceae family which are suitable for a lawn.

Turf grass species ratings are based on mowed < 6" and irrigated plants. Once dry all grasses are flammable and have lower fire resistance.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements					Comments
		Increases Flammability					Decreases Flammability					
<i>Botanical Name</i>	<b>Common Name</b>	Score For Fire Resistance	Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Mowed Height	Hardy to Zone	Sun or Shade	Water Needs	Form		
<i>Bouteloua gracilis</i>	Blue Grama	9	Med	Low	Low	Short	3	Full	Low	Rhizome	Needs moderate summer irrigation	
<i>Buchloe dactyloides</i>	Buffalograss	9	Med	Low	Low	Short	3	Full	Low	Stolon	Needs moderate summer irrigation	
<i>Festuca ovina</i>	Sheep Fescue	9	Med	Low	Low	Short	3	Full	Low	Bunch	Needs moderate summer irrigation	
<i>Lolium perenne</i>	Perennial Ryegrass	10	High	Low	Low	Short	4	Full	Med	Rhizome	Needs summer irrigation	
<i>Poa compressa</i>	Canada Bluegrass	9	Med	Low	Low	Short	3	Full-PS	Med-Low	Rhizome	Needs summer irrigation	
<i>Poa pratensis</i>	Kentucky Bluegrass	10	High	Low	Low	Short	3	Full	High	Rhizome	Needs heavy irrigation	
<i>Zoysia japonica</i>	Zoysiagrass	10	High	Low	Low	Short	6	Full	Med	Stolon / Bunch	Needs moderate summer irrigation	

## Numerical Scoring for Fire Resistance & Zone Choice

### Vine Species



Vine heights can vary significantly: 0 pts. are given for all vines height

## Deciduous Vines

Deciduous vines are plants that have a trailing or climbing growth habit

Several of the following vine species score within Zone 1, **however**, without proper management all deciduous vines will act as ladder fuel, sometimes hold leaves until new leaves emerge in spring which decreases fire resistance. Fire resistance improved for all species when thinned, pruned and dead branches are cleaned out.

**\*Only use vines with scores in zone 1 if they are properly managed.**

On site at the Firewise Garden	Fire Resistant Attributes							Cultural Requirements			Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability		Decreases Flammability			Hardy to Zone	Sun or Shade	
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width					
	<i>Actinidia kolomikta</i>	'Arctic Beauty' Kiwi Vine	6	High	Low	Low	20' x 10'	4	PS	Med	
	<i>Akebia</i>	Akebia	6	High	Low	Low	15' x 12'	4	Full-PS	High	<b>Can be invasive</b>
	<i>Bignonia capreolata</i>	'Dragon Lady' Crossvine	6	High	Low	Low	15' x 15'	5	Full-PS	Med	Reddish orange blooms, foliage turns purple in winter. Can be aggressive and invasive
	<i>Campsis radicans</i>	Trumpet vine	6	High	Low	Low	40' x 15'	4	Full-PS	Med	Resprouts from root crown and rhizomes. Drought tolerant; attract hummingbirds
	<i>Campsis x tagliabuana</i>	'Madame Galen' Trumpet Creeper	6	High	Low	Low	20' x 8'	6	Full-PS	Med	
	<i>Clematis</i> spp.	Clematis	6	High	Low	Low	15' x 15'	4	Full	Med	
	<i>Clematis terniflora</i>	Sweet Autumn Clematis	5	Med	Low	Low	15' x 15'	5	Full	Med	
	<i>Humulus lupulus</i>	Hops	8	High	Med Soap	Low	15' x 15'	4	Full	Med	<b><u>Only use in zone 1 if properly managed,</u></b> grows fast
	<i>Hydrangea anomala</i> subsp. <i>petiolaris</i>	Climbing hydrangea	8	High	Med Soap	Low	Variable	4	Full	Med	<b><u>Only use in zone 1 if properly managed</u></b>
	<i>Lonicera sempervirens</i>	'Magnifica' Trumpet Honeysuckle	8	High	Med Pectin	Low	11' x 8'	4	Full-PS	Med	<b><u>Only use in zone 1 if properly managed,</u></b> scarlet-orange flowers
	<i>Lonicera</i> spp. & hybrids	Honeysuckle	8	High	Med Pectin	Low	12' x 9'	4	Full-PS	Med	<b><u>Only use in zone 1 if properly managed,</u></b> resprouts
	<i>Lycium barbarum</i>	Matrimony Vine	6	High	Low	Low	9' x 9'	4	Full	Low	Drought tolerant

## Deciduous Vines

Deciduous vines are plants that have a trailing or climbing growth habit

Several of the following vine species score within Zone 1, **however**, without proper management all deciduous vines will act as ladder fuel, sometimes hold leaves until new leaves emerge in spring which decreases fire resistance. Fire resistance improved for all species when thinned, pruned and dead branches are cleaned out.

**\*Only use vines with scores in zone 1 if they are properly managed.**

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability		Decreases Flammability						
Botanical Name	Common Name	Score For Fire Resistance	Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	8	High	Med	Low	30' x 30'	4	Full-PS	Med	<b><u>Only use in zone 1 if properly managed,</u></b> may sprout from surviving root crown or remaining live stems, economical, <b>can be invasive</b>
<i>Polygonum aubertii</i>	Silver Lace Vine	6	High	Low	Low	25' x 25'	4	Full	Low	<b>Can be invasive</b>
<i>Vitis</i> spp.	Grapes	8	High	Med	Low	Variable	5	Full-PS	Med	<b><u>Only use in zone 1 if properly managed,</u></b> resprouts, economical,
<i>Vitis vinifera</i>	'Purpurea' Purpleleaf Grape	8	High	Med	Low	20' x 12"	6	Full	Med	<b><u>Only use in zone 1 if properly managed</u></b>
<i>Wisteria</i> spp.	Wisteria	6	High	Low	Low	30' x 30'	5	Full-PS	Med	

## Numerical Scoring for Fire Resistance & Zone Choice

### Annual Species

**Moisture Content**

High = 2.5 pts.



Med = 2 pts.



Low = 0 pt.

**Mineral Content**

High = 2.5 pts.



Med = 2 pts.



Low = 0 pt.

**Volatile Oil Content**

Low = 2.5 pts.



Med = 2 pts.



High = 0 pt.

**Height**

Short = 2.5  
pts.



Med = 2 pts.



Tall = 0 pt.

Short: < 2'

Med: 2' - 3'

Tall: > 3'

## Annual Species

Annuals are plants that only live for one season

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements				Comments
		Increases Flammability			Decreases Flammability		Hardy to Zone	Sun or Shade	Water Needs	Bloom Time	
<i>Botanical Name</i>	<i>Common Name</i>	Score For Fire Resistance	Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width					
<i>Cleome serrulata</i>	Rocky Mountain Bee Plant	5	High	Low	Med	48" x 24"	4	Full-PS	Low	Summer	Reseeds, very drought tolerant, flowers in the late summer
<i>Eschscholzia californica</i>	California Poppy	10	High	High Salt	Low	12" x 12"	5	Full	Low	Spring-Summer	Reseeds, dries up in late summer
<i>Hordeum vulgare</i>	Barley	7	Med	Low	Low	30" x 24"	3	Full	Low	Summer	Good cover crop to control weeds, need mowing or plow after ripening, fine fuel reduced Fire Resistance score
<i>Lobularia maritima</i>	Sweet Alyssum	8	High	Low	Low	12" x 24"	5	Full	Low	Summer	Reseeds
<i>Lolium temulentum</i>	Annual Ryegrass	5	Med	Low	Low	38" x 6"	3	Full	Med	Summer	Winter moisture is best, cover crop to compete with weeds, mow or plow into the soil after ripening
<i>Mirabilis jalapa</i>	Four O'clock	7	High	Low	Low	24" x 36"	5	Full	Med	Late Summer - Fall	Reseeds
<i>Papaver</i> spp.	Annual Poppy	7	High	Low	Low	24" x 6"	3	Full	Low	Summer	Very drought tolerant, mow after ripening
<i>Viola</i> spp.	Johnny Jump-up	5	Low	Low	Low	12" x 12"	4	Full	Med	Spring	Dies in the summer, <b>can be invasive</b>

## Numerical Scoring for Fire Resistance & Zone Choice

### Perennial Species

**Moisture Content**

High = 2.5 pts.



Med = 2 pts.



Low = 0 pt.

**Mineral Content**

High = 2.5 pts.



Med = 2 pts.



Low = 0 pt.

**Volatile Oil Content**

Low = 2.5 pts.



Med = 0 pts.



High = 0 pt.

**Height**

Short = 2.5  
pts.



Med = 2 pt.



Tall= 0 pt.

Short: up to 2'

Med: > 2' - 3'

Tall: > 3'



## Perennial Species

Perennials are plants that live for more than two years and are not woody.

\*All perennials need to be cut back in late winter & remove the dead material

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Bloom Time	Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability				
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs		
<i>Acantholimon hohenackeri</i>	Prickly Dianthus	7	Med	Low	Low	8" x 18"	5	Full	Low	Summer	Salt tolerant
<i>Alcea rosea</i>	Hollyhock	5	High	Low	Low	72" x 24"	4	Full	Low	Summer	Easy to grow, economical,
<i>Alcea rosea</i>	'Peaches & Dreams' Hollyhock	5	High	Low	Low	72" x 24"	3	Full	Low	Summer	
<i>Alchemilla</i> spp.	Lady's Mantle	8	High	Low	Low	15" x 24"	4	Full-PS	High	Spring-Summer	
<i>Allium cernuum</i>	Nodding Onion	10	High	Med Soap	Low	16" x 6"	4	Full-PS	Low	Spring	
<i>Allium christophii</i>	Star of Persia	10	High	Med Soap	Low	18" x 6"	4	Full	Low	Spring	
<i>Allium geyeri</i>	Geyer Onion	10	High	Med Soap	Low	10" x 4"	4	Full	Low	Spring	
<i>Allium karataviense</i>	'Ivory Queen' Onion	10	High	Med Soap	Low	10" x 8"	4	Full	Low	Spring	
<i>Allium schubertii</i>	Tumbleweed Onion	10	High	Med Soap	Low	12" x 12"	5	Full	Low	Spring	
<i>Anemone blanda</i>	Grecian Windflowers	7	Med	Low	Low	8" x 6"	4	Full-PS	Med	Spring	
<i>Aquilegia</i> spp.	Columbine	8	High	Low	Low	24" x 12"	3	Full-PS	Med	Spring	<b>Use in Zone 1 only if pruned to 6" in late June.</b> Reseeds profusely
<i>Arabis</i> spp.	Rockcress	7	Med	Low	Low	12" x 12"	4	Full	Low	Summer	
<i>Armeria maritima</i>	'Rubrifolia' Sea Thrift	8	High	Low	Low	6" x 9"	4	Full	Med	Spring	Short lived
<i>Armeria maritima</i>	Sea Thrift	8	High	Low	Low	10" x 10"	4	Full-PS	Med	Summer	Compact ground cover, salt tolerant, short lived
<i>Artemisia arborescens</i>	'Powis Castle' Artemisia	6	Med	Low	Low	36" x 36"	6	Full	Low	Late Summer	Herbacous,

## Perennial Species

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\*All perennials need to be cut back in late winter & remove the dead material

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Bloom Time	Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability		Decreases Flammability		Hardy to Zone	Sun or Shade		
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width					
<i>Artemisia arbotanum</i>	'Tangerine' Sage	5	High	Low	Med	36" x 48"	4	Full	Low	Spring/Summer	Very drought tolerant
<i>Artemisia frigida</i>	Fringed Sage	5	High	Low	Med	12" x 18"	3	Full	Low	Summer	Low, mat-forming, rhizomatous sub-shrub
<i>Artemisia ludoviciana</i>	Prairie Sage	5	High	Low	Med	24" x 24"	3	Full	Med	Summer	
<i>Artemisia</i> spp.	Wormwood	7	High	Med	Med	24" x 36"	4	Full	Low	Summer	Herbaceous species (not the woody species)
<i>Artemisia stellerana</i>	Dusty Miller	7	High	Low	Low	36" x 15"	4	Full	Med	Summer	Good deer resistance
<i>Asclepias tuberosa</i>	Orange Butterfly Weed	8	High	Low	Low	24" x 6"	4	Full	Low	Summer	Prefers medium - coarse textured soils
<i>Aster laevis</i>	Smooth Aster	8	High	Low	Low	24" x 12"	4	Full	Med	Summer	
<i>Aster porteri</i>	Porter Aster	8	High	Low	Low	24" x 12"	4	Full	Low	Summer	
<i>Astragalus utahensis</i>	Utah Milkvetch	8	High	Low	Low	4" x 24"	4	Full	Low	Spring	Very drought tolerant
<i>Baptisia sphaerocarpa</i>	Yellow Baptisia	7	High	Low	Low	36" x 24"	5	Full	Med/Low	Summer	
<i>Baptisia</i> hybrid	'Twilite Prairieblues' False Indigo	7	High	Low	Low	36" x 36"	4	Full	Low	Summer	
<i>Bergenia cordifolia</i>	Bergenia	8	High	Low	Low	12" x 12"	3	PS-S	High	Spring	Glossy evergreen leaves produced in spreading clumps, makes a nice ground cover
<i>Calochortus</i> spp.	Mariposa Lily	8	High	Low	Low	24" x 4"	4	Full	Low	Spring	
<i>Carex</i> spp.	Sedges	8	High	Low	Low	36" x 18"	4	Full	High	Summer	Usually near swampy wetlands or stream sides
<i>Centranthus ruber</i>	Jupiter's Beard	10	High	High Soap	Low	24" x 24"	4	Full-PS	Low	Summer	Freely self-seeds in optimum growing conditions to the point of being invasive if irrigated,

## Perennial Species

Perennials are plants that live for more than two years and are not woody.

\*All perennials need to be cut back in late winter & remove the dead material

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Bloom Time	Comments	
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability		Decreases Flammability		Hardy to Zone	Sun or Shade			Water Needs
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width						
	<i>Chrysanthemum maximum</i>	Shasta Daisy	5	High	Low	Med	36" x 36"	4	Full-PS	High	Summer	Invasive > 15" ppt, some oils in the leaves
	<i>Cistus purpureus</i>	Orchid Rockrose	5	High	Low	Low	60" x 60"	5	Full	Med	Summer	
	<i>Convallaria majalis</i>	Lily of the Valley	8	High	Low	Low	10" x 18"	3	PS-S	Med	Spring	Good for dry shade; spreads readily, use up spring moisture well
	<i>Coreopsis grandiflora</i>	'Grand Flying Saucers' Coreopsis	8	High	Low	Low	18" x 36"	4	Full	Med	Summer-Fall	Low growing variety,
	<i>Coreopsis rosea</i>	'Heavens Gate' Tickseed	8	High	Low	Low	18" x 24"	6	Full	Med	Summer-Fall	Pink bloom,
	<i>Coreopsis</i> spp.	Coreopsis	8	High	Low	Low	24" x 24"	5	Full	Low	Summer	Excellent for naturalizing, will self seed
	<i>Coreopsis tinctoria</i>	Prairie Coreopsis	8	High	Low	Low	24" x 24"	5	Full	Low	Summer	Economical; spreads by seed
	<i>Delphinium</i> spp.	Delphinium	7	High	Low	Low	36" x 8"	4	Full-PS	Med	Spring-Summer	
	<i>Dianthus gratianopolitanus</i>	'Tiny Rubies' Dianthus	9	Med	Med Soap	Low	6" x 12"	5	Full-PS	Low	Spring-Summer	Foliage is evergreen
	<i>Dianthus gratianopolitanus</i>	'Firewitch' Dianthus	9	Med	Med Soap	Low	8" x 18"	3	Full	Low	Spring-Summer	Foliage is evergreen,
	<i>Dianthus petraeus</i> v. <i>noeanus</i>	Dianthus	9	Med	Med Soap	Low	12" x 12"	5	Full	Low	Spring-Summer	Foliage is evergreen
	<i>Dianthus pinifolius</i>	Pineleaf Dianthus	9	Med	Med Soap	Low	12" x 24"	4	Full	Low	Spring-Summer	Foliage is evergreen
	<i>Dianthus simulans</i>	Pinks	9	Med	Med Soap	Low	6" x 18"	5	Full	Med	Spring-Summer	Foliage is evergreen
	<i>Dianthus sylvestris</i>	'Monte Baldo' Dianthus	9	Med	Med Soap	Low	12" x 12"	4	Full	Low	Spring-Summer	Foliage is evergreen

## Perennial Species

Perennials are plants that live for more than two years and are not woody.

\*All perennials need to be cut back in late winter & remove the dead material

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements				Bloom Time	Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability					
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs			
	<i>Diascia integerrima</i>	'Coral Canyon' Twinspur	9	Med	Med Soap	Low	15" x 18"	5	Full-PS	Med-High	Spring-Summer	Grow as an annual in Idaho's climate
	<i>Echinacea angustifolia</i>	Narrow-leaved Coneflower	7	Med	Low	Low	24" x 15"	3	Full	Low	Summer	
	<i>Echinacea</i> hybrid	'Pixie Meadowbrite' Coneflower	7	Med	Low	Low	20" x 20"	4	Full	Med	Summer	Low growing variety with consistently good performance,
	<i>Echinacea</i> hybrid	'Arts Pride' Coneflower	7	Med	Low	Low	24" x 18"	5	Full	Med	Summer	
	<i>Echinacea</i> hybrid	'Harvest Moon' Coneflower	7	Med	Low	Low	30" x 24"	4	Full	Med	Summer	
	<i>Echinacea</i> hybrid	'Sunrise' Coneflower	7	Med	Low	Low	36" x 24"	4	Full	Med	Summer	
	<i>Echinacea paradoxa</i>	Ozark Coneflower	7	Med	Low	Low	36" x 15"	4	Full	Med	Summer-Fall	
	<i>Echinacea pupurea</i>	Purple Coneflower	7	Med	Low	Low	36" x 15"	4	Full	Med	Summer	
	<i>Echinacea purpurea</i>	'Kim's Knee High' Coneflower	7	Med	Low	Low	24" x 18"	3	Full	Med	Summer	
	<i>Echinacea purpurea</i>	'Red Knee High' Coneflower	7	Med	Low	Low	24" x 16"	3	Full	Med	Summer	
	<i>Echinacea purpurea</i>	'Jade' Coneflower	7	Med	Low	Low	36" x 15"	5	Full	Med	Summer	White flowers
	<i>Echinacea purpurea</i>	'Tiki Torch' Coneflower	7	Med	Low	Low	36" x 28"	4	Full	Med	Summer	
	<i>Echinacea x tennesseensis</i>	'Rocky Top' Coneflower	7	Med	Low	Low	28" x 18"	5	Full	Med	Summer	Pink bloom,
	<i>Epilobium angustifolium</i>	Fireweed	7	High	Low	Low	36" x 6"	3	Full-PS	Med	Summer	Spreads by rhizomes, mid-elevations or grow in shade

## Perennial Species

Perennials are plants that live for more than two years and are not woody.

\*All perennials need to be cut back in late winter & remove the dead material

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Bloom Time	Comments	
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability					
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs			
	<i>Erigeron linearis</i>	Desert Yellow Fleabane	7	Med	Low	Low	12" x 12"	4	Full	Low	Spring	
	<i>Eriogonum umbellatum</i>	Sulphur Buckwheat	7	Med	Low	Low	12" x 36"	4	Full-PS	Low	Spring	Likes coarse or gravelly soils, deer resistant
	<i>Erysimum linifolium</i>	Wallflower	9	High	Med	Low	24" x 35"	4	Full-PS	Med	Summer	
	<i>Euonymus fortunei</i>	Winter Creeper	8	High	Low	Low	24" x 24"	4	Full-PS	Med	Summer	
	<i>Euphorbia characias</i>	'Blackbird' Spurge	10	High	High Latex	Low	18" x 24"	6	Full	Low	Fall	
	<i>Euphorbia polychroma</i>	Cushion Spurge	10	High	High Latex	Low	15" x 24"	4	Full-PS	Med	Fall	
	<i>Euphorbia x martinii</i>	'Mini Martini' Spurge	10	High	High Latex	Low	24" x 24"	6	Full	Low	Fall	'Tiny Tim' 12 x 18" zone 5, short lived
	<i>Gaillardia aristata</i>	Blanket Flower	7	Med	Low	Low	24" x 24"	3	Full	Low	Summer	Grow from seed, economical
	<i>Gaillardia grandiflora</i>	'Arizona Sun' Blanket Flower	8	High	Low	Low	10" x 12"	3	Full	Low	Summer	Compact, low growing, dense flowering
	<i>Gaillardia x aristata</i>	'Bijou' Blanket Flower	8	High	Low	Low	6" x 12"	3	Full	Low	Summer	Compact, low growing, dense flowering,
	<i>Gaillardia x aristata</i>	'Oranges & Lemons' Blanket Flower	8	High	Low	Low	18" x 18"	3	Full	Low	Summer	
	<i>Gaillardia x grandiflora</i>	'Goblin' Blanket flower	8	High	Low	Low	12" x 18"	3	Full	Low	Summer	Compact, low growing, dense flowering
	<i>Geranium caespitosum</i>	Wild Geranium	8	High	Low	Low	24" x 36"	5	Full	Med	Summer	Red flowers, foliage turns red in the fall
	<i>Geranium spp.</i>	Hardy Geraniums	8	High	Low	Low	24" x 24"	4	Full	Med	Summer	
	<i>Geranium striatum</i>	Bloody Cranesbill	8	High	Low	Low	10" x 12"	3	Full	Med	Summer	

## Perennial Species

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	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability				
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs		
<i>Geum triflorum</i>	Prairie Smoke	8	High	Low	Low	18" x 12"	4	Full-PS	Med	Spring	Fern-like foliage, reddish pink flowers, prefers cooler summer temps
<i>Gilia aggregata</i>	Scarlet Gilia	3	Low	Low	Med	18" x 8"	3	Full	Low	Summer	
<i>Helianthella quinquenervis</i>	Aspen Sunflower	7	Med	Low	Low	24" x 12"	5	Full-PS	Low	Summer	
<i>Helianthemum nummularium</i>	Rockrose	8	High	Low	Low	18" x 18"	5	Full	Low	Summer	
<i>Helianthus pumilus</i>	Small Sunflower	7	Med	Low	Low	28" x 12"	4	Full	Low	Summer	
<i>Helianthus salicifolius</i>	'Low Down' Willow-leaved Sunflower	7	Med	Low	Low	12" x 12"	4	Full	Low	Summer-Fall	
<i>Hemerocallis</i> hybrid	Daylillies	10	High	High Soap	Low	36" x 12"	4	Full-PS	Med	Summer	Developed from species native to China,
<i>Heuchera</i> spp.	Coral Bells	7	Med	Low	Low	12" x 12"	4	Full-PS	Med	Summer	
<i>Hosta</i> spp.	Hostas	8	High	Low	Low	24" x 24"	3	PS-S	High	Summer	Need lots of water and shade
<i>Hymenoxys scaposa</i>	Thrift-leaf Perky Sue	7	Med	Low	Low	8" x 8"	4	Full	Low	Summer-Fall	Vigorous reseeder
<i>Iberis sempervirens</i>	'Little Gem' Candytuft	8	High	Low	Low	12" x 12"	3	Full	Med	Spring	
<i>Iris germanica</i>	Bearded Iris	8	High	Low	Low	24" x 12"	4	Full	Med	Spring	Need H2O
<i>Kniphofia uvaria</i>	'Flamenco' Red Hot Poker	10	High	High Soap	Low	36" x 36"	5	Full-PS	Low	Late Spring	Dwarf form
<i>Kniphofia uvaria</i>	Red-hot Poker	8	High	High Soap	Low	48" x 24"	5	Full	Low	Late Spring	
<i>Lathyrus odoratus</i>	'Winter Elegance' Sweet Pea	10	High	High Soap	Low	36" x 36"	3	Full-PS	Low	Spring	

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs		
<i>Lathyrus</i> spp.	Sweet Pea	9	Med	High Soap	Low	36" x 36"	3	Full	Low-Med	Spring	
<i>Lewisia x longipetala</i>	'Little Plum' Lewisia	7	Low	Med	Low	4" x 12"	4	Full	Low	Spring	
<i>Liatris aspera</i>	Tall Blazing Star	7	Med	Low	Low	24" x 12"	4	Full-PS	Low	Summer	Very deep rooted, lavender to white flowers
<i>Liatris punctata</i>	Dotted Gay Feather	7	Med	Low	Low	24" x 12"	4	Full-PS	Med	Summer	
<i>Lilium</i> spp.	Lillies	10	High	High Soap	Low	36" x 6"	4	Full-PS-S	Med	Summer	Asiatic & oriental lillies, easily grown from bulbs, not deer resistant
<i>Limonium latifolium</i>	Sea Lavender	7	Med	Low	Low	12" x 12"	5	Full	Med	Summer	
<i>Linum lewisii</i>	Wild Blue Flax	7	Med	Low	Low	24" x 12"	3	Full-PS	Low	Spring-Summer	
<i>Linum perenne</i>	Blue Flax	8	High	Low	Low	24" x 12"	3	Full-PS	Low	Spring-Summer	
<i>Lotus corniculatus</i>	Birdfoot Trefoil	8	High	Low	Low	12" x 36"	3	Full	Low	Spring	
<i>Lupinus</i> spp.	Lupine	8	High	Low	Low	24" x 24"	4	Full-PS	Med	Summer	
<i>Medicago</i> hybrid	Grazer Alfalfa	10	High	High Soap	Low	6" x 36"	3	Full	Med-High	Summer	Deer will eat it
<i>Medicago</i> hybrid	Creeping Alfalfa	10	High	High Soap	Low	4" x 36"	3	Full	Med-High	Summer	Deer will eat it
<i>Medicago sativa</i>	'Ladak' Alfalfa	10	High	High Soap	Low	36" x 36"	3	Full	Med	Summer	Drought tolerant cultivar, deer will eat it
<i>Mirabilis multiflora</i>	Desert Four-o'clock	7	High	Low	Low	36" x 36"	4	Full	Med	Summer	Frost sensitive, good performance
<i>Muscari armeniacum</i>	Grape Hyacinth	10	High	High	Low	6" x 4"	3	Full-PS	Low	Spring	Dries up by late spring, winter moisture, very drought tolerant

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	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability					
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs			
	<i>Nepeta faassenii</i>	'Walker's Low' Catmint	4	Med	Low	Med	28" x 36"	4	Full	Low	Summer	
	<i>Nepeta subsessilis</i>	Catmint	5	Med	Low	Med	12" x 20"	4	Full	Low	Summer	
	<i>Nierembergia gracilis</i>	'Starry Eyes'	8	High	Low	Low	10" x 18"	7	Full	Low	Summer	Does not over winter, treat as an annual
	<i>Oenothera berlanderi</i>	'Twilight' Primrose	8	High	Low	Low	12" x 24"	5	Full	Low-Med	Summer	Purple foliage
	<i>Oenothera caespitosa</i>	White Stemless Evening Primrose	7	Med	Low	Low	10" x 36"	4	Full	Low	Spring-Summer	
	<i>Oenothera macrocarpa</i>	Missouri Evening Primrose	7	Med	Low	Low	18" x 36"	4	Full	Low	Spring-Summer	Can be invasive
	<i>Oenothera speciosa</i>	Showy Primrose	8	High	Low	Low	12" x 24"	4	Full	Low-Med	Summer	
	<i>Oenothera</i> spp.	Evening Primrose	7	Med	Low	Low	12" x 24"	4	Full	Low	Spring-Summer	
	<i>Papaver orientale</i>	Oriental Poppy	9	Med	Med Latex	Low	12" x 12"	3	Full	Low	Spring	
	<i>Pelargonium endlicherianum</i>	Turkish Pelargonium	7	Med	Low	Low	10" x 10"	4	Full-PS	Med	Summer	
	<i>Penstemon alamosensis</i>	Los Alamos Beardtongue	7	High	Low	Low	30" x 8"	5	Full	Low	Spring-Summer	
	<i>Penstemon alamosensis</i>	'Alamo Canyon' Penstemon	7	High	Low	Low	30" x 8"	5	Full	Low	Spring-Summer	Coral orange flowers
	<i>Penstemon anguineus</i>	Siskiyou Beardtongue	7	High	Low	Low	30" x 8"	5	Full	Low	Spring-Summer	
	<i>Penstemon arenicola</i>	Sand Penstemon	7	High	Low	Low	30" x 8"	5	Full	Low	Spring-Summer	
	<i>Penstemon barbatus</i>	'Red Riding Hood' Penstemon	8	High	Low	Low	24" x 24"	5	Full	Low	Spring-Summer	
	<i>Penstemon barrettiae</i>	Barrett's Beardtongue	8	High	Low	Low	4" x 8"	4	Full	Low	Spring-Summer	



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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs			
	<i>Penstemon cardwellii</i>	Cardwell's Beardtongue	7	High	Low	Low	30" x 24"	5	Full-PS	Low	Spring-Summer	
	<i>Penstemon cobaea</i>	Foxglove Penstemon	8	High	Low	Low	12" x 12"	6	Full	Low	Spring-Summer	
	<i>Penstemon cyaneus</i>	Blue Penstemon	8	High	Low	Low	6" x 12"	5	Full	Low/Med	Spring-Summer	
	<i>Penstemon davidsonii</i> v. <i>davidsonii</i>	Davidson's Penstemon	8	High	Low	Low	24" x 18"	5	Full	Low/Med	Spring-Summer	
	<i>Penstemon eatonii</i>	Firecracker Penstemon	8	High	Low	Low	6" x 12"	4	Full	Low	Spring-Summer	
	<i>Penstemon fruticosus</i>	Shrubby Penstemon	8	High	Low	Low	2" x 12"	4	Full	Low	Spring-Summer	
	<i>Penstemon</i> hybrid	'Prairie Splendor' Penstemon	8	High	Low	Low	12" x 24"	3	Full	Low	Spring-Summer	
	<i>Penstemon</i> hybrid	'Bronco Orange' Penstemon	7	High	Low	Low	36" x 24"	2	Full	Low	Spring-Summer	Local cultivar
	<i>Penstemon mexicali</i>	Beard Tongue Penstemon	8	High	Low	Low	24" x 24"	5	Full	Low	Spring-Summer	
	<i>Penstemon pachyphyllus</i>	Thickleaf Penstemon	8	High	Low	Low	24" x 18"	3	Full	Low	Spring-Summer	
	<i>Penstemon palmeri</i>	Palmer Penstemon	8	High	Low	Low	18" x 24"	6	Full	Med	Spring-Summer	Short lived perennial
	<i>Penstemon payettensis</i>	Payette Beardtongue	8	High	Low	Low	24" x 24"	4	Full	Low	Spring-Summer	
	<i>Penstemon pinifolius</i>	Pineleaf Penstemon	8	High	Low	Low	18" x 24"	3	Full	Low	Spring-Summer	
	<i>Penstemon pinifolius</i>	'Mersea Yellow' Penstemon	8	High	Low	Low	24" x 18"	4	Full	Low	Spring-Summer	
	<i>Penstemon strictus</i>	Rocky Mountain Penstemon	8	High	Low	Low	12" x 15"	4	Full	Low	Spring-Summer	

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs			
	<i>Penstemon whippleanus</i>	Whipple's Penstemon	8	High	Low	Low	12" x 15"	4	Full	Low	Spring-Summer	
	<i>Phlox kelseyi</i>	'Lemhi Purple' Phlox	7	Med	Low	Low	12" x 8"		Full-PS	Med	Spring	
	<i>Phlox paniculata</i>	'Violet Flame' Phlox	7	Med	Low	Low	22" x 18"	4	Full-PS	Med	Spring	
	<i>Phlox subulata</i>	'Scarlet Flame' Creeping Phlox	7	Med	Low	Low	4" x 18'	3	Full-PS	Med	Spring	
	<i>Polemonium</i> spp.	Jacobs Ladder	8	High	Low	Low	24" x 24"	3	Full-PS	High	Summer	Prefers cooler climate
	<i>Polygonatum commutatum</i>	Solomon's Seal	8	High	Low	Low	24" x 24"	3	PS-S	Med	Spring	Rhizomatous
	<i>Potentilla fissa</i>	Leafy Potentilla	7	Med	Low	Low	12" x 12"	4	Full	Low	Summer	
	<i>Pulsatilla patens</i>	Pasque Flower	7	Med	Low	Low	12" x 12"	3	Full	Med	Spring	Dies back by mid-summer
	<i>Ratibida columnifera</i>	Mexican Hat	7	Med	Low	Low	24" x 12"	3	Full	Med-Low	Summer	Easy to grow; spreads readily by seed
	<i>Rudbeckia fulgida</i>	'Goldstrum' Black-eyed Susan	7	Med	Low	Low	24" x 24"	3	Full	Med	Summer	More dense & slightly shorter than the common variety
	<i>Rudbeckia fulgida</i>	'Viette's Little Suzy' Black-eyed Susan	7	Med	Low	Low	12" x 12"	3	Full	Med	Summer	Compact form
	<i>Rudbeckia fulgida</i> v. <i>sullivantii</i>	'Little Goldstar' Rudbeckia	7	Med	Low	Low	12" x 15"	3	Full	Med	Summer	Compact form
	<i>Rudbeckia fulgida</i> v. <i>fulgida</i>	Brown-eyed Susan	7	Med	Low	Low	20" x 18"	4	Full	Med	Summer	
	<i>Rudbeckia hirta</i>	Black-eyed Susan	7	Med	Low	Low	24" x 24"	4	Full	Med	Summer	
	<i>Rudbeckia hirta</i> hybrid	'Cherry Brandy' Rudbeckia	7	Med	Low	Low	20" x 18"	5	Full	Med	Summer	Cherry red blooms
	<i>Rudbeckia maxima</i>	Giant Coneflower	7	Med	Low	Low	36" x 18"	4	Full	Med	Summer	

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	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability					
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs			
<i>Sanguisorba minor</i>	Small Burnet	7	Med	Low	Low	24" x 24"	3	Full	Med	Fall	Easy to start from seed & economical,	
<i>Sanguisorba obtusa</i>	Burnet	7	Med	Low	Low	36" x 36"	3	Full	Low	Fall		
<i>Saxifraga hirsuta</i>	Saxifrage	8	High	Low	Low	12" x 12"	4	Full	Med	Spring		
<i>Scutellaria alpina</i>	'Moonbeam' Skullcap	8	High	Low	Low	4" x 12"	4	Full-PS	Low	Summer		
<i>Scutellaria baicalensis</i>	Chinese Skullcap	7	Med	Low	Low	8" x 8"	5	Full-PS	Low-Med	Summer		
<i>Scutellaria brittonii</i>	Skullcap	7	Med	Low	Low	24" x 36"	4	Full	Med	Summer		
<i>Scutellaria resinosa</i>	'Smoky Hills' Skull Cap	7	Med	Low	Low	12" x 16"	4	Full	Low	Summer		
<i>Scutellaria</i> spp.	Skullcap	7	Med	Low	Low	24" x 36"	4	Full	Med	Summer		
<i>Senecio spartioides</i>	Broom Groundsel	7	Med	Low	Low	24" x 24"	4	Full	Med	Summer		
<i>Senecio</i> spp.	Groundsel	7	Med	Low	Low	24" x 24"	4	Full	Med	Summer		
<i>Solidago sphacelata</i>	'Golden Fleece' Goldenrod	8	High	Low	Low	15" x 24"	4	Full	Med	Summer	Rhizomatous	
<i>Solidago</i> spp.	Goldenrod	7	High	Low	Low	36" x 36"	4	Full	Med	Summer	Rhizomatous	
<i>Sphaeralcea munroana</i>	Orange Globemallow	7	Med	Low	Low	24" x 18"	3	Full	Low	Summer		
<i>Sphaeralcea</i> spp.	Globemallow	7	Med	Low	Low	24" x 18"	5	Full	Low	Summer	Grows easily from seed	
<i>Teucrium aroanium</i>	Grey Creeping Germander	7	Med	Low	Low	5" x 24"	5	PS	Low	Summer	Good performer	
<i>Teucrium chamaedrys</i>	Germander	7	Med	Low	Low	24" x 24"	4	Full	Med	Summer		
<i>Teucrium cossoni</i>	Germander	7	Med	Low	Low	24" x 24"	4	Full	Med	Summer		

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width						
	<i>Thalictrum fendleri</i>	Fendler Meadowrue	7	High	Low	Low	36" x 24"	5	Full	Med	Summer	
	<i>Thermopsis divaricarpa</i>	Spreadfruit Goldenbanner	8	High	Low	Low	24" x 36"	4	Full	High	Spring	Can be invasive
	<i>Tradescantia occidentalis</i>	Western Spiderwort	7	High	Low	Low	24" x 24"	4	Full-PS	High	Summer	
	<i>Trifolium spp.</i>	Clover	8	High	Low	Low	12" x 12"	4	Full-PS	High	Summer	May need irrigation & can be invasive,
	<i>Veronica pectinata</i>	Speedwell	8	High	Low	Low	12" x 12"	4	Full	Med	Summer	
	<i>Xerophyllum tenax</i>	Beargrass	5	High	Low	Low	62" x 48"	5	PS	High	Summer	Hard to find & grow, needs partial shade
	<i>Zauschneria garrettii</i>	'Mountain Flame' California Fuchsia	7	Med	Low	Low	18" x 25"	5	Full	Low	Summer	Attracts hummingbirds
	<i>Zauschneria garrettii</i>	'Orange Carpet' Trumpet Flower	7	Med	Low	Low	12" x 24"	5	Full	Low	Summer	Attracts hummingbirds

## Numerical Scoring for Fire Resistance & Zone Choice

### Shrub Species

**Moisture Content**

High = 2.5 pts.



Med = 1 pts.



Low = 0 pt.

**Mineral Content**

High = 2.5 pts.



Med = 1 pts.



Low = 0 pt.

**Volatile Oil Content**

Low = 2.5 pts.



Med = 0.5 pt.



High = 0 pt.

**Height**

Short = 2 pts.



Med = 1 pt.



Tall = 0 pt.

Short: < 3'

Med: 3' < 8'

Tall: 8'+

## Shrub Species

Shrubs are woody plants that are distinguished from trees by their multiple stems and shorter height

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	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability			
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Abeliophyllum distichum</i>	White Forsythia	6	High	Low	Low	5' x 3'	5	Full-PS	Med	
<i>Amelanchier alnifolia</i>	'Regent' Dwarf Serviceberry	6	High	Low	Low	5' x 5'	3	Full	Med	Cultivar known for fruit production
<i>Amelanchier alnifolia</i>	Saskatoon Serviceberry	5	High	Low	Low	20' x 15'	4	Full	Low	Resprouts from root crown, can form thickets
<i>Amelanchier arborea</i>	'Autumn Brilliance' Downy Serviceberry	5	High	Low	Low	20' x 20'	4	Full	Low	Resprouts from root crown and seed
<i>Arctostaphylos nevadensis</i>	Pinemat Manzanita	4	Med	Low	Med	1' x 4'	5	Full-PS	Low	Sub-shrub-woody
<i>Arctostaphylos x coloradensis</i>	Panchito Manzanita	3	Med	Low	Med	4' x 6'	5	PS	Low	Sub-shrub-woody, slow growing
<i>Aronia arbutifolia</i>	Brilliant Red Chokeberry	5	High	Low	Low	10' x 8'	4	Full	Med	Resprouts
<i>Aronia melanocarpa</i>	Black Chokeberry	6	High	Low	Low	6' x 6'	3	Full	Low	Thicket forming
<i>Atriplex canescens</i>	Four-wing Saltbush	6	Low	High Salt	Low	5' x 6'	4	Full	Low	<b>every third year in late winter - early spring</b> , may sprout after top-kill, poorly
<i>Atriplex confertifolia</i>	Shadscale Saltbush	5	Low	Med Salt	Low	3' x 3'	3	Full	Low	Prune back to the base every 2 -5 years
<i>Atriplex gardneri</i>	Gardner's Saltbush	6	Low	High Salt	Low	4' x 4'	4	Full	Low	Sub-shrub
<i>Berberis</i> spp.	Crimson Barberry	6	Med	Med Pectin	Low	4' x 3'	4	Full-PS	Med	
<i>Berberis thunbergii</i>	'Atropurpurea Nana' Crimson Pygmy Barberry	8	High	Med Pectin	Low	2' x 3'	4	Full	Med	Low growing 'pygmy'

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<i>Buddleia davidii</i>	Butterflybush	5	High	Low	Low	8' x 8'	5	Full	Med	late winter - early spring, easy to grow, can be <b>invasive</b> in sites with >24"ppt
<i>Caragana arborescens</i>	Siberian Peashrub	5	High	Low	Low	18' x 16'	3	Full	Low-Med	Resprouts from rhizomes, Inexpensive seedlings available
<i>Caragana microphylla</i>	Little Leaf Peashrub	5	High	Low	Low	8' x 10'	2	Full-PS	Low	
<i>Caragana rosea</i>	Red Flower Pea Shrub	6	High	Low	Low	3' x 3'	3	Full	Low-Med	
<i>Caryopteris x clandonensis</i>	Blue Mist Spirea	2	Low	Low	Med	3' x 3'	6	Full	Med	Prune to 12" in late winter - early spring, spreads if irrigated
<i>Ceanothus americanus</i>	'New Jersey Tea' Ceanothus	8	High	High Soap	Low	3' x 5'	4	Full-PS	Med	Needs winter protection
<i>Ceanothus hybrid</i>	'South Mead' Ceanothus	7	High	Med Soap	Low	6' x 6'	6	Full	Med	Needs winter protection
<i>Ceanothus pallidus</i>	'Marie Simon' Ceanothus	7	High	Med Soap	Low	6' x 8'	6	Full	Med	Needs winter protection, Pink flowered
<i>Ceanothus sanguineus</i>	Redstem Ceanothus	4	High	Med Soap	Med	10' x 10'	4	PS	Low-Med	
<i>Ceanothus x delilianus</i>	'Gloire de Versailles' Ceanothus	7	High	Med Soap	Low	5' x 8'	6	Full	Low	Powder blue blooms in spring and again in late summer
<i>Cercocarpus montanus</i>	True Mountain Mahogany	3	High	Low	Med	20' x 8'	4	Full	Low	Resprouts vigorously after fire
<i>Chaenomeles japonica</i>	Dwarf Flowering Quince	5	High	Low	Low	8' x 8'	3	Full-PS	Med	
<i>Chaenomeles speciosa</i>	Common Flowering Quince	5	High	Low	Low	10' x 10'	5	Full-PS	Med	Prune in late winter - early spring,

# Shrub Species

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On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability			
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Chaenomeles x superba</i>	'Texas Scarlet' Quince	6	High	Low	Low	3' x 4'	3	Full-PS	Med	
<i>Chaenomeles x superba</i>	'Jet Trail' Flowering Quince	6	High	Low	Low	4' x 4'	3	Full-PS	Med	White flowers
<i>Chaenomeles x superba</i>	'Spitfire' Quince	6	High	Low	Low	5' x 5'	5	Full-PS	Med	
<i>Chrysothamnus nauseosus</i>	Gray Rabbitbrush	3	Med	Low	Med	4' x 3'	4	Full	Low	usually enhances growth through resprouting and strong seedling
<i>Chrysothamnus viscidiflorus</i>	Green Rabbitbrush	2	Med	Low	High	3' x 2'	4	Full	Low	Prune in late winter - early spring, fire usually enhances growth through resprouting and strong seedling germination, some ssp. are less oily than others
<i>Cornus sericea</i>	'Kelsey' Dogwood	6	High	Low	Low	3' x 4'	2	Full-PS	High	Low growing cultivar
<i>Cornus sericea</i>	Red-osier Dogwood	5	High	Low	Low	8' x 10'	2	Full	Med	<b><u>Use in zone 2 only if cut back to 12" every 5 years,</u></b> resprouts from root crowns,
<i>Cotoneaster adpressa</i>	'Praecox' Creeping Cotoneaster	7	High	Low	Low	2' x 5'	4	Full-PS	Med	deciduous
<i>Cotoneaster dammeri</i>	'Mooncreeper' Bearberry	7	High	Low	Low	1' x 5'	5	Full	Low	
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster	7	High	Low	Low	1' x 6'	5	Full	Med	
<i>Cotoneaster horizontalis</i>	Spreading Cotoneaster	6	High	Low	Low	3' x 15'	5	Full-PS	Low	
<i>Cotoneaster integerrimus</i>	'Centennial' Cotoneaster	5	High	Low	Low	12' x 12'	4	Full-PS	High	Native to Europe & northern Asia



## Shrub Species

Shrubs are woody plants that are distinguished from trees by their multiple stems and shorter height

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability			
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Cotoneaster microphyllus</i>	'Thymifolius' Thyme leaf Cotoneaster	6	High	Low	Low	3' x 3'	4	Full-PS	Low	
<i>Cylindropuntia</i> spp.	Cholla Cactus	8	High+	Low	Low	5' x 5'	4	Full	Low	*Very high moisture content increases the Fire Resistance (ranking) and suitability for use in zone 1, Needs well drained soil
<i>Daphne cenorum</i>	Rose Daphne	7	High	Low	Low	1' x 2'	4	PS	Med	
<i>Daphne x burkwoodii</i>	'Carol Mackie' Burkwood Daphne	6	High	Low	Low	4' x 4'	4	PS	High	
<i>Ephedra viridis</i>	Mormon Tea	6	High	Low	Low	3' x 4'	5	Full	Low	Resprouts from the roots
<i>Euonymus alata</i>	'Compacta' Burning Bush	6	High	Low	Low	6' x 8'	4	Full-PS	Med	Prune in late winter - early spring
<i>Forsythia</i> hybrid	'Arnold's Dwarf' Forsythia	6	High	Low	Low	3' x 7'	4	Full-PS	Med	Low, spreading habit making it an excellent groundcover
<i>Forsythia</i> hybrid	'Goldilocks' Forsythia	6	High	Low	Low	3' x 4'	4	Full-PS	Med	Prune in late spring after bloom, purple fall foliage, long lasting blooms,
<i>Forsythia</i> hybrid	'Sunrise' Forsythia	6	High	Low	Low	5' x 5'	5	Full-PS	Med	Prune in late spring after bloom, rounded, dense habit,
<i>Forsythia suspensa</i>	Weeping Forsythia	6	High	Low	Low	6' x 6'	5	Full-PS	Med	Prune in late spring after bloom
<i>Forsythia x intermedia</i>	'Lynwood Gold' forsythia	6	High	Low	Low	7' x 7'	4	Full-PS	Med	Prune in late spring after bloom, do not over water
<i>Forsythia x intermedia</i>	'Spring Glory' Forsythia	6	High	Low	Low	7' x 7'	4	Full-PS	Med	Prune in late spring after bloom
<i>Forsythia x intermedia</i>	Forsythia	5	High	Low	Low	9' x 11'	4	Full	Med	Prune in late spring after bloom
<i>Forsythia x intermedia</i>	'Beatrix Farrand' Forsythia	5	High	Low	Low	10' x 10'	5	Full-PS	Med	Prune in late spring after bloom, Large, 2+" yellow flowers
<i>Hamamelis virginiana</i>	Common Witch Hazel	5	High	Low	Low	25' x 15'	3	Full-PS	Med	Prune in early winter - early spring

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		Score For Fire Resistance	Increases Flammability		Decreases Flammability		Hardy to Zone	Sun or Shade	Water Needs	
<b>Botanical Name</b>	<b>Common Name</b>		Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width				
<i>Jasminum nudiflorum</i>	Weeping Winter Jasmine	7	High	Med	Low	4' x 6'	6	Full	Low	Frost sensitive, needs good drainage
<i>Kerria japonica</i>	'Pleniflora' Golden Guinea Kerria	6	High	Low	Low	6' x 6'	4	PS	Med	Prune in late winter - early spring, resprouts from root crown
<i>Kerria japonica</i>	Japanese Kerria	5	High	Low	Low	8' x 8'	4	PS	Med	Prune in early winter - early spring
<i>Kochia prostrata</i>	Forage Kochia	7	High	Low	Low	2' x 3'	4	Full	Low	*Can be invasive, resprouts after fire, competes well with annual invasives such as cheatgrass
<i>Ligustrum vulgare</i>	'Lodense' Privet	6	High	Low	Low	4' x 4'	4	Full	Med	Prune in late winter - early spring, resprouts; very compact, Best Privet
<i>Ligustrum vulgare</i>	Common Privet	5	High	Low	Low	12' x 12'	4	Full-PS	Med	Prune in early winter - early spring
<i>Mahonia aquifolium</i>	'Compactum' Oregon Grape	4	High	Low	Med	4' x 4'	4	PS	Med	Resprouts from rhizomes protected by soil
<i>Mahonia haematocarpa</i>	Red Oregon Grape	6	High	Low	Low	5' x 5'	5	Full-PS	Med	
<i>Mahonia repens</i>	Creeping Oregon Grape	4	Med	Low	Med	2' x 6'	4	Full	Low	
<i>Philadelphus coronarius</i>	'Aureus' Golden Leaf Mockorange	8	High	High Soap	Low	5' x 6'	4	Full	Med	Prune in late spring after bloom, most frost sensitive <i>Philadelphus</i> , resprouts, gold foliage, white flowers,
<i>Philadelphus hybrid</i>	'Buckley's Quill' Mockorange	8	High	High Soap	Low	4' x 4'	4	Full	Med	Prune in late spring after bloom, resprouts, 1" flowers with quill-like petals. good performer in our climate
<i>Philadelphus hybrid</i>	'Blizzard' Mockorange	8	High	High Soap	Low	5' x 4'	3	Full-PS	Med	Prune in late spring after bloom, cold hardiness good for higher elevations

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Philadelphus lewisii</i>	Syringa, Mockorange	7	High	High Soap	Low	11' x 7'	4	Full	Med	Prune in late spring after bloom, resprouts vigorously from root crown, <b>Idaho state flower</b>
<i>Philadelphus lewisii</i>	'Cheyenne' Mockorange	8	High	High Soap	Low	6' x 6'	3	Full	Med	Prune in late spring after bloom, cold hardiness good for higher elevations
<i>Philadelphus pekinensis</i>	Peking Mockorange	8	High	High Soap	Low	6' x 6'	5	Full	Med	Prune in late spring after bloom, resprouts
<i>Philadelphus scaber</i>	Korean Mockorange	7	High	High Soap	Low	10' x 6'	5	Full	Med	Prune in late spring after bloom, resprouts
<i>Philadelphus tomentosus</i>	Kashmir Mockorange	7	High	High Soap	Low	10' x 4'	5	Full	Med	Prune in late spring after bloom, resprouts
<i>Philadelphus virginialis</i>	Snowflake' Mockorange	8	High	High Soap	Low	6' x 8'	4	Full	Med	Prune in late spring after bloom, resprouts
<i>Philadelphus x hybrid</i>	'Snowbelle' Mockorange	8	High	High Soap	Low	4' x 4'	4	Full	Low-Med	Prune in late spring after bloom
<i>Philadelphus x lemoinei</i>	'Manteau d'Hermine' Dwarf Mockorange	8	High	High Soap	Low	3' x 3'	3	Full	Med	Prune in late spring after bloom, resprouts, good dwarf form,
<i>Philadelphus x lemoinei</i>	'Innocence' Mockorange	7	High	High Soap	Low	8' x 8'	4	Full-PS	Low-Med	Prune in late spring after bloom, minor frost damage
<i>Philadelphus x virginialis</i>	'Dwarf Snowflake' Mockorange	8	High	High Soap	Low	4' x 4'	4	Full	Med	Prune in late spring after bloom, resprouts, disease resistant foliage
<i>Physocarpus malvaceus</i>	Ninebark	5	Med	Low	Low	6' x 6'	3	PS	Med	Prune in late winter - early spring, resprouts from rhizomes protected by soil
<i>Physocarpus opulifolius</i>	'Dart's Gold' Ninebark	5	Med	Low	Low	5' x 5'	3	Full	High	Prune in late winter - early spring
<i>Physocarpus opulifolius</i>	Tall Ninebark	2	Med	Low	Low	9' x 8'	3	Full	High	Resprouts from rhizomes protected by soil
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	5	Med	Low	Low	3' x 3'	3	Full-PS	Med	Prune in late spring after bloom, resprouts from rhizomes/root crown

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Potentilla fruticosa</i>	'Pink Beauty' Potentilla	5	Med	Low	Low	3' x 3'	3	Full	Med	Prune in late spring after bloom
<i>Prunus americana</i>	American Plum	5	High	Low	Low	25' x 6'	3	Full	Low	Resprouts via adventitious-bud root crown and seeds
<i>Prunus emarginata</i>	Bitter Cherry	5	High	Low	Low	25' x 25'	4	Full-PS	Med	Enhanced by fire, resprouts via adventitious-bud root crown
<i>Prunus pumila</i>	Sandcherry	6	High	Low	Low	6' x 8'	3	Full	Low	Resprouts via adventitious-bud root crown and seeds
<i>Prunus pumila</i> v. <i>besseyi</i>	Western Sandcherry	6	High	Low	Low	5' x 5'	3	Full	Low	Resprouts via adventitious-bud root crown and seeds, easy to grow
<i>Prunus pumila</i> v. <i>besseyi</i>	'Pawnee Buttes' Sand Cherry	7	High	Low	Low	1.5' x 6'	3	Full	Low	Prostrate cultivar;
<i>Prunus tomentosa</i>	Nanking Cherry	6	High	Low	Low	7' x 7'	3	Full-PS	Med	Resprouts from root crown and seed bank, easy to grow, fast growing, <b>economical</b>
<i>Prunus virginiana</i>	Chokecherry	5	High	Low	Low	20' x 25'	2	Full	Med	Resprouts
<i>Pyracantha angustifolia</i>	'Gnozam' Pyracantha	6	High	Low	Low	6' x 8'	6	Full-PS	Low-Med	Evergreen, cut back
<i>Rhamnus frangula</i>	'Asplenifolia' Alderleaf Buckthorn	6	High	Med Soap	Low	11' x 9'	3	Full-PS	Low	Resprouts from root crown
<i>Rhus aromatica</i>	'Gro-Low' Sumac	7	High	Med Soap	Low	3' x 7'	3	Full	Low	Prune in late winter - early spring, regenerates from perennating buds on root, rhizomes and soil banked seeds,
<i>Rhus trilobata</i>	'Autumn Amber' Sumac	8	High	Med Soap	Low	2' x 10'	4	Full	Low	Regenerates from perennating buds on roots, rhizomes and soil banked seeds,
<i>Rhus trilobata</i>	Oak-leaf Sumac	7	High	Med Soap	Low	7' x 10'	3	Full-PS	Low	Prune in late winter - early spring, regenerates from perennating buds on roots, rhizomes and soil banked seeds,

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Rhus typhina</i>	'Laciniata' Cut-leaf Sumac	7	High	Med Soap	Low	6' x 4'	4	Full-PS	Low	Regenerates from rhizomes and soil banked seeds, spreads by shoots
<i>Ribes aureum</i>	Golden Currant	6	High	Low	Low	7' x 7'	3	Full-PS	Med	every 5 years, survivability depends on severity of fire, in low to mod. fires
<i>Ribes odoratum</i>	'Crandall' Clove-scented Currant	6	High	Low	Low	5' x 5'	4	Full-PS	Med	Survivability depends on severity of fire. In low to mod. fires resprouts from rhizomes
<i>Ribes sanguineum</i>	Redflower Currant	6	High	Low	Low	5' x 4'	5	Full-PS	Med	Survivability depends on severity of fire, in low to mod. fires resprouts from rhizomes,
<i>Rosa hybrid</i>	'Nearly Wild' Rose	6	High	Low	Low	3' x 4'	4	Full	Med	Flowers all summer, pink to red,
<i>Rosa hybrid</i>	'John Cabot' Rose	5	High	Low	Low	8' x 8'	3	Full	Med	Climbing rose, rosey pink
<i>Rosa woodsii</i>	Woods' Rose	5	High	Low	Low	8' x 8'	2	Full-PS	Low	Prune to 12" in late winter - early spring every 5 years, resprouts from root crown and rhizomes, easy to grow
<i>Rubus</i> spp.	Raspberries	6	High	Med	Low	8' x 8'	4	Full	High	Resprouts from roots, rhizomes and long-lived fire-resistant seeds,
<i>Salix caprea</i>	French Pussy Willow	5	High	Low	Low	15' x 15'	4	Full	High	<b>Use in zone 2 ONLY if cut back to 3-4' in late winter - early spring</b>
<i>Salix integra</i>	'Hakuro Nishiki' Dappled Willow	5	High	Low	Low	8' x 8'	3	Full	High	Resprouts
<i>Salix lutea</i>	Golden Willow	5	High	Low	Low	8' x 8'	3	Full	High	Native willow at low elevations to 5,000 ft., may need pruning occasionally to improve fire resistance, best pruned to 4'
<i>Salix purpurea</i>	'Nana' Dwarf Blue Arctic Willow	6	High	Low	Low	6' x 4'	3	Full	High	<b>Use in zone 2 only if pruned to 12" in late winter - early spring every 5 years,</b> resprouts
<i>Salix scouleriana</i>	Scouler Willow	5	High	Low	Low	15' x 25'	6	Full	High	<b>Use in zone 2 ONLY if kept &lt; 8'</b> Native to dry upland forests, can be pruned

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Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width	Hardy to Zone	Sun or Shade	Water Needs	
<i>Salvia pachyphylla</i>	'Blue Flame' Sage	3	Med	Low	High	2' x 3'	5	Full	Low	
<i>Sambucus cerulea</i>	Blue Elderberry	7	High	High Soap/Pectin	Low	10' x 5'	3	PS	Med	<b>Use in zone 2 only if pruned to 12" in late winter - early spring every third year</b> , resprouts from root crown and seed bank
<i>Shepherdia argentea</i>	Silver Buffaloberry	6	High	Med Soap	Low	10' x 8'	2	Full-PS	Med	Resprouts from root crown
<i>Shepherdia canadensis</i>	Russet Buffaloberry	7	High	Med Soap	Low	7' x 7'	2	Full	Med	Resprouts from root crown, low-to moderate-intensity fires may increase vigor, density, & fruit production of russet buffaloberry in old-growth stands
<i>Shepherdia rotundifolia</i>	Roundleaf Buffaloberry	7	High	Med Soap	Low	4' x 6'	5	Full	Low	Competes well with cheat grass in the field
<i>Symphoricarpos albus</i>	Snowberry	8	High	High Soap/Pectin	Low	5' x 5'	3	Full-PS	Med	Prune to 12" in late winter - early spring every 5 years, resprouts from rhizomes
<i>Syringa hybrid</i>	'Tinkerbelle' Lilac	7	High	Low	Low	2' x 2'	3	Full	Med	Dwarf shrub
<i>Syringa vulgaris</i>	Lilac	5	High	Low	Low	8' x 10'	3	Full	Med	Prune in late spring after bloom, resprouts from rhizomes, easy to grow, <b>economical</b> ,
<i>Yucca filamentosa</i>	'Ivory Tower' Yucca	8	High	High Soap	Low	3' x 3'	4	Full	Low	Sprouts from the caudex,
<i>Yucca glauca</i>	Great Plains Yucca	8	High	High Soap	Low	4' x 4'	4	Full	Low	Sprouts from the caudex,

## Numerical Scoring for Fire Resistance & Zone Choice

### Deciduous Species

<b>Moisture Content</b>	High = 2 pts.	Med = 1 pts.	Low = 0 pt.
<b>Mineral Content</b>	High = 2 pts.	Med = 1 pts.	Low = 0 pt.
<b>Volatile Oil Content</b>	Low = 2.5 pts.	Med = 0 pt.	High = 0 pt.
<b>Height</b>	Short = 2.5 pts.	Med = 1.5 pts.	Tall = -1 pt.

Short: < 20'      Med: 20' - 35'      Tall: > 35'

## Deciduous Tree Species

Deciduous means falling off at maturity; typically trees or shrubs that lose their leaves seasonally

\*All trees have better fire resistance when pruned and lacking dead wood. Deciduous trees are less susceptible to fire during the dormant season.

Cultivated species that are grafted will not resprout true to cultivar from root stock or crown wood.

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements			Comments		
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content		Height x Width	Hardy to Zone
Decreases Flammability												
<i>Acer glabrum</i>	Rocky Mountain Maple	6	High	Low	Low	30' x 15'	4	PS-S	High	Resprouts from root crown, can grow as small tree or shrub form		
<i>Acer grandidentatum</i>	Bigtooth maple	6	High	Low	Low	35' x 25'	4	Full	Med			
<i>Acer negundo</i>	Boxelder	5	High+	Low	Low	50' x 35'	3	Full	Med			
<i>Acer spp.</i>	Maple	5	High+	Low	Low	75' x 75'	4	Full	Med	Reestablishes through seedling & sprouts		
<i>Acer tataricum subsp. ginnala</i>	Amur Maple	6	High	Low	Low	25' x 15'	3	Full	Med	Resprouts from root crown; low branched multi-stemmed		
<i>Aesculus hippocastanum</i>	Horsechestnut	6	High	High Soap	Low	60' x 50'	4	Full	Med	Resprouts from root crown		
<i>Aesculus hippocastanum</i>	'Braumannii' Horse Chestnut	6	High	High Soap	Low	60' x 50'	4	Full	Med	White flowers on this fruitless cultivar,		
<i>Alnus glutinosa</i>	Black Alder	4	High	Low	Low	50' x 30'	4	Full-PS	High	Resprouts from root crown		
<i>Alnus spp.</i>	Alder	4	High	Low	Low	40' x 20'	4	Full-PS	High	Resprouts from root crown		
<i>Alnus tenuifolia</i>	Thin Leaf Alder	6	High	Low	Low	20' x 15'	4	Full-PS	High			
<i>Betula occidentalis</i>	Water Birch	4	High	Low	Med	25' x 15'	4	PS	High	Resprouts from root crown, basal buds, and seed		
<i>Carya spp.</i>	Hickory	1	High	Low	Med	85' x 60'	5	Full	Med	Flammable, resprouts from root crown, bark sheds		
<i>Catalpa speciosa</i>	Northern Catalpa	5	High+	Low	Low	90' x 45'	4	Full	High	Forms high canopy & deep roots		
<i>Celtis occidentalis</i>	Common Hackberry	4	High	Low	Low	60' x 45'	4	Full-PS	Med	Resprouts from root crown		
<i>Celtis reticulata</i>	Netleaf Hackberry	6	High	Low	Low	30' x 25'	5	Full-PS	Low			



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Decreases Flammability												
	<i>Cercis canadensis</i>	Eastern Redbud	6	High	Low	Low	25' x 30'	4	PS	High		
	<i>Chilopsis linearis</i>	'Art's Seedless' Desert Willow	7	High	Low	Low	18' x 15'	6	Full	Low	Winter die back	
	<i>Chilopsis linearis</i>	'Bubba' Desert Willow	7	High	Low	Low	18' x 15'	6	Full	Low	Winter die back	
	<i>Chilopsis linearis</i>	'Monhews' Desert Willow	7	High	Low	Low	18' x 15'	6	Full	Low	Winter die back	
	<i>Cornus florida</i>	Flowering Dogwood	6	High	Low	Low	25' x 25'	5	PS	High		
	<i>Cotinus coggyria</i>	Purple Smoketree	5	Med	Low	Low	15' x 15'	5	Full	Med	Considerable fine fuel lowered fire resistance rating	
	<i>Crataegus crus-galli</i>	'Cruzan' Crusader Hawthorne	7	High	Low	Low	15' x 15'	4	Full	Low	Lacks thorns	
	<i>Crataegus columbiana</i>	Columbia Hawthorne	7	High	Low	Low	15' x 15'	4	Full-PS	Low-Med	Red colored fruit, very long thorns	
	<i>Crataegus douglasii</i>	Douglas Hawthorne	7	High	Low	Low	15' x 15'	3	Full	Med	Black colored fruit	
	<i>Diospyros virginiana</i>	Common Persimmon	4	High	Low	Low	75' x 30'	4	Full	Med	Resprouts from root crown and buds, frost sensitive	
	<i>Fraxinus cuspidata</i>	Fragrant Flowering Ash	6	High	Low	Low	20' x 15'	7	Full	Low-Med		
	<i>Gleditsia tricanthos</i>	Honey Locust	4	High	Low	Low	40' x 40'	4	Full	Med		
	<i>Gymnocladus dioicus</i>	Kentucky Coffee Tree	4	High	Low	Low	70' x 45'	5	Full	Med	High canopy, frost sensitive	

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Decreases Flammability												
<i>Juglans nigra</i>	Black Walnut	4	High	Low	Low	65' x 65'	4	Full	Med	Resprouts from root crown; disease is wiping them out		
<i>Liquidambar styraciflua</i>	Sweetgum	4	High	Low	Low	65' x 45'	5	Full	High	Resprouts from root crown		
<i>Liriodendron tulipifera</i>	Tuliptree	4	High	Low	Low	80' x 40'	4	Full	Med			
<i>Malus hybrid</i>	'Dolgo' Crabapple	8	High	Med	Low	18' x 15'	2	Full	Med			
<i>Malus hybrid</i>	'Cinderella' Dwarf Crabapple	8	High	Med	Low	8' x 5'	4	Full	Med			
<i>Malus sargentii</i>	'Roselow' Sargent Crabapple	8	High	Med	Low	8' x 10'	4	Full	Med			
<i>Prunus pennsylvanica</i>	Wild Red Cherry	6	High	Low	Low	35' x 25'	3	Full	Low	Resprouts rapidly and prolifically from surviving root crowns and rhizomes, may become shrub-like post-fire		
<i>Prunus virginiana</i>	Chokecherry	6	High	Low	Low	20' x 25'	3	Full	Med	Resprouts from root crown, rhizomatous		
<i>Quercus alba</i>	White Oak	4	High	Low	Low	70' x 70'	4	Full	Med	Most oaks survive periodic fires		
<i>Quercus bicolor</i>	Swamp White Oak	4	High	Low	Low	55' x 55'	4	Full	Med			
<i>Quercus gambelii</i>	Gambel Oak	6	Med	Low	Low	10' x 5'	4	Full	Med	Higher resistance to fire compared to other oaks		
<i>Quercus macrocarpa</i>	Bur Oak	4	High	Low	Low	75' x 75'	3	Full	Med			
<i>Quercus rubra</i>	Red Oak	4	High	Low	Low	70' x 70'	4	Full	Med			
<i>Rhamnus purshiana</i>	Cascara	7	High	Med Soap	Low	30' x 20'	5	Full-PS	Med			
<i>Rhus glabra</i>	Smooth Sumac	8	High	Med Soap	Low	10' x 12'	3	Full-PS	Low			

## Deciduous Tree Species

Deciduous means falling off at maturity; typically trees or shrubs that lose their leaves seasonally

\*All trees have better fire resistance when pruned and lacking dead wood. Deciduous trees are less susceptible to fire during the dormant season.

Cultivated species that are grafted will not resprout true to cultivar from root stock or crown wood.

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
		Increases Flammability			Decreases Flammability		Hardy to Zone	Sun or Shade	Water Needs	
<i>Botanical Name</i>	<b>Common Name</b>	Score For Fire Resistance	Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width				
<i>Salix alba</i>	Golden Willow	<b>5</b>	High+	Low	Low	65' x 65'	2	Full	High	
<i>Salix spp.</i>	Willow	<b>6</b>	High	Low	Low	Variable	3	Full	High	
<i>Sorbus aucuparia</i>	European Mountain-ash	<b>6</b>	High	Low	Low	20' x 30'	3	PS	Med	

## Numerical Scoring for Fire Resistance & Zone Choice

### Non - Turf Grass Species

\*Turf grasses are listed in a separate section (pages 25 - 26).

#### Moisture Content

High = 2 pts.



Med = 1 pts.



Low = 0 pt.

#### Mineral Content

High = 2 pts.



Med = 1 pts.



Low = 0 pt.

#### Volatile Oil Content

Low = 2 pts.



Med = 0 pt.



High = 0 pt.

#### Height

Short = 2 pts.



Med = 0.5 pt.



Tall = -1 pt.

Short: < 6"

Med: > 6" - 12"

Tall: > 12"

## Non-Turf Grass Species

\*Turf grasses are listed in a separate section (pgs. 25 - 26).  
Grasses are monocots in the Poaceae family

Most grasses need seasonal mowing or grazing to improve fire resistance.  
Once dry all grasses are flammable and have low fire resistance. Short stature grasses don't need mowing.

On site at the Firewise Garden	Fire Resistant Attributes						Cultural Requirements					Comments
	Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability			Decreases Flammability			Hardy to Zone	Sun or Shade	
Moisture Content on 4th July				Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Typical Height						
	<i>Achnatherum hymenoides</i>	Indian Ricegrass	1	Low	Low	Low	Tall	3	Full	Low	Bunch	
	<i>Agropyron cristatum</i>	Crested Wheatgrass	4	Med	Low	Low	Med	3	Full	Low	Bunch	Needs mowing, drought tolerant
	<i>Agropyron smithii</i>	Western Wheatgrass	4	Med	Low	Low	Med	3	Full	Low	Rhizome	Creates a continous fuel
	<i>Agropyron spicatum</i>	Bluebunch Wheatgrass	4	Med	Low	Low	Med	3	Full	Low	Bunch	
	<i>Dactylis glomerata</i>	Orchardgrass	5	High	Low	Low	Med	4	Full	Med	Bunch	Needs summer irrigation
	<i>Elymus elymoides</i>	Squirreltail Grass	3	Low	Low	Low	Med	3	Full	Low	Bunch	
	<i>Festuca glauca</i>	Fescue	6	Med	Low	Low	Short	3	Full	Low	Bunch	Needs moderate summer irrigation
	<i>Festuca idahoensis</i>	Idaho Fescue	6	Med	Low	Low	Short	3	Full	Low	Bunch	Needs moderate summer irrigation
	<i>Hesperostipa comata</i>	Needle & Thread	1	Low	Low	Low	Tall	3	Full	Low	Bunch	
	<i>Koeleria macrantha</i>	Prairie Junegrass	4	Med	Low	Low	Med	3	Full	Low	Bunch	
	<i>Leymus cinereus</i>	Great Basin Wildrye	2	Med	Low	Low	Tall	3	Full	Med	Bunch	
	<i>Poa secunda</i>	Sandberg Bluegrass	6	Med	Low	Low	Short	3	Full	Low	Bunch	Competes well with cheatgrass without irrigation
	<i>Poa secunda</i> v. Mt. Home	Sandberg Bluegrass	6	Med	Low	Low	Short	3	Full	Low	Bunch	Needs moderate summer irrigation

## Numerical Scoring for Fire Resistance & Zone Choice

### \*Conifer Species

**Moisture Content**

High = 2 pts.



Med = 1 pts.



Low = 0 pt.

**Mineral Content**

High = 2 pts.



Med = 1 pts.



Low = 0 pt.

**Volatile Oil Content**

Low = 2 pts.



Med = 0.5 pt.



High = 0 pt.

**Height**

Short = 1 pt.



Med = 0.5 pt.



Tall = 0 pt.

Short: < 20'

Med: 20' - 50'

Tall: > 50'

# Conifer Tree Species

Conifers are cone-bearing seed plants usually in tree form

Pruning lower branches and raking up dead needles improves fire resistance for all conifer trees, all conifer trees are wildlife friendly

On site at the Firewise Garden		Fire Resistant Attributes					Cultural Requirements			Comments
Botanical Name	Common Name	Score For Fire Resistance	Increases Flammability		Decreases Flammability		Hardy to Zone	Sun or Shade	Water Needs	
			Moisture Content on 4th July	Mineral Content (Soap, Salt, etc.)	Volatile Oil/Resin Content	Height x Width				
<i>Larix kaempferi</i>	'Blue Rabbit' Japanese Larch	5	High	Low	Low	8' x 3'	3	Full	Med	Deciduous, yellow fall color, nice tree for bonsai
<i>Larix laricina</i>	Eastern Larch	4	High	Low	Low	60' x 20'	2	Full	Med	Deciduous, yellow fall color, does not tolerate heat, shade or pollution
<i>Larix occidentalis</i>	Western Larch	4	High	Low	Low	120' x 40'	3	Full	Med	Deciduous, yellow fall color, prefers cool N.E. moist slopes,
<i>Pinus jeffreyi</i>	Jeffrey Pine	1	Med	Low	High	90' x 25'	5	Full	Low	* Have evolved thick bark and the loss of lower limbs which aid in higher fire resistance, evergreen, summer drought tolerant
<i>Pinus ponderosa</i>	Ponderosa Pine	1	Med	Low	High	100' x 30'	3	Full	Low	*Have evolved thick bark and the loss of lower limbs which aid in higher fire resistance, evergreen, summer drought tolerant
<i>Pseudotsuga menziesii</i> v. <i>glauca</i>	Rocky Mountain Douglas-fir	1	Med	Low	High	100' x 20'	3	Full	Med	Evergreen
<i>Sequoiadendron giganteum</i>	Giant Sequoia	1	Med	Low	High	150' x 35'	6	Full	Med	Evergreen, needs duff to protect roots from mechanical damage; fire resistance comes from its thick bark

## Acknowledgements

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