Fire Resistant Shrubs and Trees for Privacy in Southwestern Oregon

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Acknowledgements

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Financial support for this publication was provided by:

Jackson County Outreach & Education Title III grant
Rogue Valley Fire Prevention Cooperative
USDA Forest Service
Jackson County
Oregon Department of Forestry
Jackson Soil and Water Conservation District
Oregon State University Extension Service

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Ali True, Ashland Fire and Rescue
Amy Jo Waldo, OSU Extension Horticulture
Steve Jessup, Southern Oregon University, Professor of Botany
Steve Siewert, Plant Oregon
Cat Kizer and JoAnn Dixon, Land Stewards

Photos in this publication courtesy of:

Amy Jo Detweiler, Steve Fitzgerald, Rhianna Simes, and Pat Breen of Oregon State University
http://oregonstate.edu/dept/ldplants/index.htm#otheritems

Booklet design 2012 • Flying Toad Graphics, Grants Pass, Oregon
Publisher’s Note: Deciduous plants lose their leaves seasonally and generally present a lower fire risk than conifers. Conifers are generally needle bearing evergreens with higher resin content and can present a fire risk. The list of shrubs and trees in this publication is not exhaustive, but merely provides suggestions, an overview of the plants’ growing needs, and characteristics to look for when selecting fire-resistant plants. Due to the countless variables in life and in nature, readers should know that there are no guarantees.
Use Fire-Resistant Plants for Privacy

Property owners often use shrubs or trees for creating privacy, screening unwanted views, dust and noise reduction, and as part of an attractive home landscape. However, some commonly used privacy screen plants such as Leyland cypress and ornamental juniper are highly flammable. These plants can be hazardous to use near your home in wildfire-prone environments. Aside from having flammable foliage, such plants accumulate dried, dead material inside the plant due to shading from the outer foliage. As a result, these plants can form a dense fuel ladder from the ground upward. When ignited, they burn intensely. If the screening plants are in contact with a fence or outbuilding, they may serve as a wick, allowing fire to spread to a wooden structure – possibly your home.

If you live in an area where there is significant risk of wildfire – as is the case for most of southern Oregon – consider using fire-resistant plants for privacy screens. This publication provides examples of fire-resistant shrubs and trees that can be used to create a more fire-safe home landscape while providing the privacy you desire.

Fire-Resistant vs. Highly Flammable Plants

Fire-resistant plants are those that do not readily ignite from an ember or other ignition sources. These plants can be damaged or even killed by fire; however, their foliage and stems do not significantly contribute to the fuel load and therefore, the fire’s intensity. There are several other factors that influence the fire-resistant characteristics of plants, including leaf moisture content, presence of dead material, and chemical content in the sap.

<table>
<thead>
<tr>
<th>Fire-resistant plants have:</th>
<th>Highly flammable plants have:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Moist and supple leaves</td>
<td>• Fine, dry, or dead material within the plant, such as twigs, needles, and leaves</td>
</tr>
<tr>
<td>• Minimal dead wood and do not tend to accumulate dry/dead material within the plant</td>
<td>• Volatile waxes, terpenes, or oils in their leaves, twigs and stems</td>
</tr>
<tr>
<td>• Low sap or resin materials</td>
<td>• Strong odor when leaves are crushed</td>
</tr>
<tr>
<td>• Sufficient water and nutrients to be healthy</td>
<td>• Sap that is gummy, resinous, and has a strong odor</td>
</tr>
<tr>
<td></td>
<td>• Loose or papery bark</td>
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Text adapted from PNW 590, Fire-resistant Plants for Home Landscapes.
Examples of highly flammable plants that are often used include ornamental juniper, Leyland cypress, Italian cypress, rosemary, arborvitae, eucalyptus, and some ornamental grasses. However, any plant that has not been cared for and has not been adequately watered can become dry and brittle, making it more fire prone.

Note: Just because some trees, shrubs, or other plants have been identified as more fire prone does not mean that you should completely clear them off your property. In fact, it is more important to consider where they are located, if they are within the defensible space near your home, and if they are healthy and well maintained. Placement and care are very important factors to consider before planting or removing plants in a fire-resistant landscape.
Designing a Privacy Screen

When selecting fire-resistant shrubs or trees for creating privacy, choose a mixture of plants that have seasonal attributes, benefit wildlife, and add to biodiversity. Consider using multi-trunk plants with large foliage to maximize the amount of screening they provide. In addition, consider alternatives to the traditional hedge, where one type of shrub is planted in a row. Instead, mix different varieties to create a beautiful and low-risk landscape with year-round interest.

*Consider contacting your local fire professional for advice about the design, location and recommended distances of privacy screens and other vegetation from the home.*

Use Multi-Trunk or Low-Branching Plants

Privacy hedges are enhanced by multi-trunk trees or shrubs that are both evergreen and deciduous. Low branching shrubs and trees, or those with multiple stems, make it more difficult to see through an area and can provide more coverage than a single trunk of a higher branching shrub or tree. Even when these plants lose their leaves, they can still break up lines of sight and create a visual buffer. By selecting low-branching or multi-trunk shrubs or trees, a thick barrier of foliage can provide privacy from a foot or two above the ground, to as high as ten to twenty feet.

Mix Different Species

When designing a hedge for privacy, many people conjure images of the formal groupings of one type of shrub similar to those found in Europe or modern housing developments. It can be more aesthetically pleasing, however, to mix and match multiple species of fire-resistant shrubs or trees to create a natural layered look that provides year-round interest and privacy. A common problem in uniformly planted hedges (with only one species or variety) occurs when one shrub dies, and it becomes almost impossible to exactly match the size and shape of the replacement shrub with the existing hedge. In a mixed hedge, it is much easier to add or replace plants as needed, as well as to select different varieties for flowers, fall color, or wildlife benefits.
**Stagger Plantings**

By avoiding planting shrubs or trees in a straight row, multiple species can be incorporated into the privacy screen. This means that each plant is offset, or triangulated, with the ones nearest to it. Although this will take up more space, it still provides a screen and the separation of plants helps reduce the spread of fire. By staggering plantings, it is possible to create a dense buffer of foliage, while maintaining necessary space between each plant. Even if shrubs or trees are staggered, it is still important to maintain adequate growing space between each specimen to avoid developing ladder fuels that can easily spread a wildfire’s flames.

**Maintenance is Critical**

As with any fire-resistant landscaping, maintenance is critical. Deep watering, mulching, and the removal of deadwood and leaves help to maintain the overall health of the plant, thereby reducing the flammability of the overall landscape. Planting the appropriate shrub or tree in the right place can make all the difference in its long term health and vigor. Keep in mind that heavy shearing or pruning may promote a dense outer crown, resulting in less sunlight reaching the interior of the hedge and causing dieback of twigs. This dieback will create flammable material in the center of even healthy, well spaced shrubs and trees. **Ongoing maintenance is critical for fire-resistant landscapes of all kinds:** water adequately, fertilize as needed, control pests, prune to remove dead material, and remove dry leaves or weeds annually that accumulate between plantings.

**Fire-Resistant Mulches**

Most wood-based mulches, such as fir bark, shredded cypress bark, and wood chips will burn. To make wood-based mulch more fire resistant, keep your mulch moist, add compost on top of it, or avoid bark mulch directly around structures. Instead use compost, rock, or mix compost with chips for mulch options that won’t contribute to a fire.

**Alternative Options for Fire-Resistant Privacy**

When creating privacy for interior spaces, curtains and blinds are preferable to fire-prone landscaping. Also, consider the strategic placement of a metal arbor, trellis, detached fence panel or a metal fence with a vine planted on it, which can offer privacy in specific locations in the home landscape.
Reducing Fire Risk

In fire-prone areas, the use of fire-resistant plants in privacy screens can reduce wildfire risk associated with fire-prone shrubs or trees. The following list includes some trees and shrubs, both deciduous and evergreen, that are fire-resistant and suitable for hedgerows, screening, and plantings for privacy in the interior of Southwestern Oregon (Jackson & Josephine Counties specifically). Some are natives; some are ornamentals. This list is not exhaustive, but includes a variety of plants from which to choose. Carefully consider the mature size of the plant; for example, plants should not be taller than 25 feet if they are located under utility lines. Privacy and safety can go hand-in-hand when selecting fire-resistant shrubs and trees. By planting away from structures, removing dead material when necessary, and maintaining the plant’s overall health, it is possible to add beauty and privacy to the home landscape.

**Shrubs 5’ to 15’**

Fire-resistant shrubs that grow to 5-15 feet tall provide a visual buffer from common neighborhood nuisances. The fire-resistant shrubs highlighted in this section will offer privacy, and some species will also offer fragrant flowers, berries that attract wildlife, or attractive foliage.

- Coffeeberry
- Laurel
- Evergreen Euonymus
- Flowering Quince
- Japanese Privet
- Photinia
- Pittosporum
- Pyracantha
- Tall or American Boxwood
- Thorny Silverberry

**Coffeeberry**

*Rhamnus californica*

Blue-gray leaves, red berries, native to Oregon.

- 6 ft to 10 ft tall
- 5 ft to 8 ft wide
- Semi-evergreen
- Sun, part shade
- Consistent watering
Laurel species  
*Prunus laurocerasus or lusitanica*

- English and Portuguese species, shiny leaves with white flowers.
- 10 ft to 20 ft tall
- 10 ft to 12 ft wide
- Evergreen
- Sun
- Medium watering

Evergreen Euonymus  
*Euonymus japonicus*

- Variegated varieties, leathery glossy leaves, easily shaped
- 6 ft to 10 ft tall
- 5 ft to 8 ft wide
- Evergreen
- Sun
- Low watering

Flowering Quince  
*Chaenomeles sp.*

- Multi-trunk, medium-size leaves with bright flowers.
- 12 ft to 15 ft tall
- 10 ft to 12 ft wide
- Semi-evergreen
- Sun
- Low watering
**Japanese Privet**  
*Ligustrum japonicum*

- Shiny leaves, easily pruned or shaped, white flowers.
- 10 ft tall
- 10 ft wide
- Evergreen
- Sun
- Low watering

**Photinia**  
*Photinia x fraseri*

- New leaf growth is red, but turns green, white flowers.
- 15 ft to 20 ft tall
- 20 ft wide
- Evergreen
- Sun
- Low watering

**Pittosporum**  
*Pittosporum tobira*

- Rounded form, low branching, fragrant white flowers.
- 10 ft to 12 ft tall
- 10 ft to 15 ft wide
- Evergreen
- Sun, part shade
- Medium watering
**Pyracantha**  
*Pyracantha coccinea*  
White flowers lead to orange berries, shrub can be espaliered.  
- 12 ft tall  
- 12 ft wide  
- Evergreen  
- Sun, part shade  
- Low watering

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**Tall or American Boxwood**  
*Buxus sempervirens*  
Species specific, small tight leaf, flower not notable.  
- 12 ft tall  
- 12 ft wide  
- Evergreen  
- Sun, part shade  
- Medium watering

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**Thorny Silverberry**  
*Elaeagnus ebbingei*  
Can be variegated, species specific (E. umbellata is invasive).  
- 12 ft tall  
- 12 ft wide  
- Evergreen  
- Sun  
- Low watering
Trees Under 20’

Trees that grow 20 feet tall provide visual barriers similar to shrubs in this height range, but often do not grow as wide. Choose small, fire-resistant trees that are low branching, or have a multiple trunks for coverage that does not take-up as much space, but still offer screening options for small structures, cars, or other unsightly objects. Many of these small trees for privacy also offer wonderful fall color, beautiful flowers, or berries for attracting birds.

- Cascara
- Oleander
- Osoberry
- Seven Sons Flower
- Vine Maple

Cascara
*Rhamnus purshiana*

Multi-trunk, low branching, thin and tall, native to Oregon.

- 10 ft to 25 ft tall
- 8 ft to 12 ft wide
- Deciduous
- Sun, Part shade
- Consistent watering

Oleander
*Nerium oleander*

Cold hardiness variety dependent, all parts very poisonous.

- 12 ft tall
- 12 ft wide
- Semi-deciduous
- Sun
- Low watering
Osoberry
*Oemleria cerasiformis*

- Needs partial shade, low branching, fall color, native to Oregon.
- 10 ft to 15 ft tall
- 8 ft to 10 ft wide
- Deciduous
- Sun, part shade
- Consistent watering

Seven Sons Flower
*Heptacodium miconioides*

- Low branching, fan-shaped habit, fragrant flowers with pink bracts.
- 10 ft to 20 ft tall
- 10 ft to 12 ft wide
- Deciduous
- Sun, part shade
- Medium watering

Vine Maple
*Acer circinatum*

- Needs partial shade, low branching, fall color, native to Oregon.
- 15 ft to 20 ft tall
- 8 ft to 10 ft wide
- Deciduous
- Sun, part shade
- Medium to consistent watering
Fire-resistant trees that grow taller than 25 feet offer large-scale screening options from buildings, neighboring homes, or other large objects. These trees should not be planted under power lines or too close to a structure; however, they will offer privacy from larger objects, especially when used in conjunction with shrubs or trees from the previous sections.

- Flowering Horsechestnut
- Japanese Elm
- Mountain Ash
- Persian Parrotia
- Southern Magnolia

### Flowering Horsechestnut
*Aesculus x briotii*

Oval form, beautiful flowers, chesnuts are poisonous on this species.

- 15 ft to 25 ft tall
- 15 ft to 25 ft wide
- Deciduous
- Sun
- Low watering

### Japanese Elm
*Zelkova serrata*

Fan-shaped habit, small leaves, fall color, can screen buildings.

- 50 ft to 70 ft tall
- 40 ft to 50 ft wide
- Deciduous
- Sun
- Low watering
Mountain Ash
Sorbus americana

- Soft leaves, white flowers lead to orange bunches of berries.
- 25 ft to 30 ft tall
- 15 ft to 20 ft wide
- Deciduous
- Sun, part shade
- Low to medium watering

Persian Parrotia
Parrotia persica

- Low branching, amazing fall color, vase-shaped habit.
- 20 ft to 30 ft tall
- 15 ft wide
- Deciduous
- Sun, part shade
- Low watering

Southern Magnolia
Magnolia grandiflora

- Big glossy leaves, large creamy flowers, oval-shape growing habit.
- 60 ft tall
- 40 ft wide
- Evergreen
- Sun
- Low watering
Fire-resistant shrubs for shade offer options for areas that receive only morning sunlight, or have limited sun exposure throughout the day. These shrubs can offer privacy for areas with shady conditions like a sitting area, north-facing window, or an area that already has existing large trees. Many of these shrubs also offer vibrantly-colored flowers, berries for wildlife, or glossy evergreen leaves. Make sure these shrubs are planted far enough away from the house so that when mature they will conform to defensible space guidelines.

- Camellia
- Aucuba
- Japanese Aralia
- Mockorange
- Rhododendron

**Camellia**
Camellia sp.

Glossy, dark green leaves, showy flowers in spring.

- 8 ft tall
- 8 ft wide
- Evergreen
- Part shade, shade
- Medium to consistent watering

**Aucuba**
Aucuba japonica

Rounded shrub, variegated varieties available, red berries.

- 7 ft tall
- 7 ft wide
- Evergreen
- Part shade, shade
- Medium watering
Japanese Aralia
*Fatsia japonica*

- Big tropical, palm-like leaves, white flowers.
- 10 ft tall
- 8 ft wide
- Evergreen
- Part shade, shade
- Low watering

Mockorange
*Philadelphus lewisii*

- Multi-trunk, small leaves, fragrant white flowers, native to Oregon.
- 7 ft to 10 ft tall
- 5 ft to 7 ft wide
- Deciduous
- Part-shade, shade
- Medium watering

Rhododendron
*Rhododendron macrophyllum*

- Choose tall varieties, glossy leaves, many flower colors, native to Oregon.
- 9 ft tall
- 7 ft wide
- Evergreen
- Part shade, shade
- Medium watering
Instead of only planting multiples of a single species in a row, consider staggering plantings, creating visual layers in the landscape. This approach combines the benefits of several types of plants to create a living privacy screen that is beautiful year-round. Other fire-resistant shrubs for layering can be found in Extension Publication, PNW 590, *Fire-Resistant Plants for Home Landscapes*.

**Lilac**  
*Syringa sp.*  
Choose tall varieties, large rounded habit, fragrant purple flowers.  
- 10 ft tall • 8 ft wide  
- Deciduous

**Oregon Grape**  
*Mahonia aquifolium*  
Deer-resistant, colorful new growth, yellow flowers, native to Oregon.  
- 6 ft tall • 4 ft wide  
- Evergreen

**Osmanthus**  
*Osmanthus burkwoodii*  
Fragrant white flowers, small leaf, drought tolerant.  
- 8 ft to 10 ft tall • 5 ft to 7 ft wide  
- Evergreen

**Red-osier Dogwood**  
*Cornus sericea (C. stolonifera)*  
Vase-shaped habit, white flowers, very red stems, native to Oregon.  
- 8 ft to 10 ft tall • 5 ft to 7 ft wide  
- Deciduous

**Rose**  
*Rosa sp.*  
Choose tall varieties, known for its flowers, some species native to Oregon.  
- Size dependent on species  
- Evergreen  
- Deciduous
Publications

**Fire-Resistant Plants for Home Landscapes**
A Pacific Northwest Extension publication: PNW 590

**Guidelines for Firewise Landscaping in an Urban Setting**
City of Ashland Firewise program
http://ashland.or.us/Files/Firewise brochure.pdf

**Living with Wildfire – A Homeowner’s Guide**
Rogue Valley Fire Prevention Co-op
http://www.ci.medford.or.us/Files/livingwithwildfire.pdf

Websites

**City of Ashland Firewise Communities** (local information)
http://ashlandfirewise.org
Information & guidelines for firewise landscaping, lists of firewise plants

**Firewise** (national) http://www.firewise.org/
Extensive information about home wildfire protection

**Oregon Department of Forestry, SW Oregon District,**
Fire Protection page (local information) http://www.swofire.oregon.gov/
Information about how to protect your home against wildfires, defensible space, local fire protection, and more

**OSU Extension, Wildfire in Oregon** (statewide)
http://extension.oregonstate.edu/tough_times/emergency/wildfire-oregon
Facts sheets and links regarding home wildfire protection

**Rogue Valley Fire Prevention Co-op** (local information) http://www.rvfpc.com/
Look under the “Preparedness” tab for information about creating defensible space, local regulations, and more

Printable one-page overview

One-page overview of
**Fire-Resistant Shrubs and Trees for Privacy in Southwest Oregon**
http://extension.oregonstate.edu/sorec/forestry
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