

Fire-Resistant Plants for Eastern Washington



A Step-by-Step Guide for Choosing the Right Plant for the Right Place



Master Gardener Program

WASHINGTON STATE UNIVERSITY EXTENSION

2

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ACKNOWLEDGMENTS

The information and photos in this publication have been gathered from numerous sources, all of which are listed in the literature-referenced section. Some images are credited next to the photos.

This publication lists only fire-resistant plants that are in other Firewise documents. Master Gardener volunteers did not perform any empirical research, but only compiled existing information about plants that are likely to thrive in Eastern Washington. We wish to thank those who "went before us" in researching and gathering this valuable information.

SPECIAL THANKS TO

- Washington State University (WSU) Chelan/ Douglas County Master Gardener volunteers
- Washington State University (WSU) Extension staff
- Washington State Department of Natural Resources staff
- Al Murphy, project coordinator and author

WASHINGTON STATE UNIVERSITY (WSU) MASTER GARDENERS

WSU Master Gardeners are university-trained community volunteers who provide research- based, sustainable landscape education to communities across Washington State.

Volunteers teach about environmental stewardship through providing information about best gardening practices for the goal of protecting natural resources in a sustainable manner.

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Fire-Resistant Plants for Eastern Washington



A Step-by-Step Guide for Choosing the Right Plant for the Right Place

PUBLISHED JUNE 2021



INTRODUCTION



well-designed landscape around a home is key to reducing the risk of loss from a wildland fire. Maintaining that landscape is

essential to providing defensible space for the home and for providing for the safety of firefighters when a wildland fire occurs.

All vegetation is potential fuel for a fire. There is no absolutely fire-proof vegetation. All plants will burn if the conditions are right. There are, however, plants that are FIRE-PRONE, and those that are FIRE-RESISTANT. The use of fireresistant vegetation and proper maintenance are paramount in reducing the risk of home losses in the Wildland Urban Interface (WUI).

Landscapes change over time. Plants mature to their genetically predetermined size. We often landscape with small, young plants only to be amazed at the mature size some plants achieve years later. Plan ahead! Plant the appropriate plants in the correct areas.

To minimize fire danger, keep in mind plants' sizes at maturity and appropriate plant location.

When Selecting Plants and Plant Locations, Consider These Major Points:

Climate & Soil: Is the selected plant hardy for the climate zone? Will it grow well in the type of soil it is going to be planted in?

Root Space: Are the roots of the plant going to cause future problems to areas such as septic drain fields, sidewalks, or foundations in the selected location?

Plant Height: Does the selected plant have the room to grow to its pre-determined genetic height in the selected area?

Plant Spread: Does the selected plant have room to spread to its pre-determined genetic width?

Design the landscaping to include a combination of fire-resistant vegetation and non-combustible materials such as decorative bricks, walls, paths, patios, rock mulches, and other attractive fire-resistant features.

PURPOSE

The purpose of this publication is to provide building owners guidance and education about ways to landscape property with fireresistant plants. Fire-resistant plants placed in the appropriate areas around homes and businesses, coupled with proper maintenance, can help reduce damage from wildland fires.

OBJECTIVES

Provide homeowners, businesses, and landscapers in Eastern Washington counties with examples of plant species to use in landscapes to lessen the potential for losses from wildland fires.

Inform residents about landscaping techniques which can be used in fire-prone environments to reduce the risk of experiencing loss from a wildland fire.

Understand the need and value of planting different types of plants in different areas around a structure in the Wildland Urban Interface (WUI).

Gain an appreciation of favorable plant attributes that are more fire-resistant.

Understand less-favorable plant attributes that are more fire-prone and, therefore, less desirable in close proximity to a structure.

NTRODUCTION



Fire Occurrence in Eastern Washington

Historically wildfire would burn an area every 6 to 30 years in Eastern Washington. This frequent fire interval has been a part of the Eastern Washington's ecosystem since the retreat of the Continental glaciers more than 10,000 year ago. Wildland fire is an essential part of the environment in this area. It serves as a key component in maintaining a healthy and productive ecosystem.

To minimize fire risks in the fire-prone environment of Eastern Washington, property owners should properly site buildings, use appropriate construction materials, and select fire-resistant plants in their landscapes.

Firebrands (Sparks or Embers)

Wildfire threatens homes in three ways: direct contact by flames, radiated heat, and firebrands (burning embers). More homes burn due to firebrands than due to any other cause. When fire conditions are right, firebrands can be lofted high into the air and transported more than a mile from the main fire. Firebrands also can be carried by wind and fire whirls.

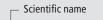
If firebrands land in easily ignitable materials such as dried grass, fallen leaves, wood shake roofs, leaf or needle-filled gutters, a new fire easily can start. Home owners can take action to reduce the ignition potential on and immediately adjacent to the home to combat incoming firebrands.

HOW TO USE THIS PUBLICATION

The plants in this guide are divided into seven (7) categories:

- Page number Plant category
 S GROUNDCOVERS
 PHERBACEOUS PERENNIALS
 VINES
 GECIDUOUS SHRUBS
- **49** BROADLEAF EVERGREEN SHRUBS
- **55 NON-TURF GRASSES**
- 59 TREES

Plant Profile Example



Common name





Sun and water needs

Hardiness Zone: 4-8 Size: H/W 10'x24' Suculent: No Landscape Zone: 1, 2 or 3

Landscape Zone: 1, 2 or . Characteristics & Problems:

A tufted-to-small-mat-forming perennial from a stout rootstock. Do not plant L. galiobdolon because it is invasive.

> Short comments that provide information about the unique qualities or specific problems of each plant

S

FIRE RESISTANCE

ome landscape plants are described and marketed as fire-resistant. It is important to remember,

given certain conditions, that all plants can burn regardless of how they are classified. In general, select plants that are low-growing, open-structured, and less-resinous (oily or waxy). Plant maintenance and placement are equally important as the species of plants selected for the site. Maintenance and landscape management (e.g., pruning, watering, and cleanup) have a greater impact on whether or not a plant ignites than does the species.



FIRE-RESISTANT DOES NOT MEAN FIREPROOF!

Even fire-resistant plants will burn if not well maintained. Be sure to keep all of your landscape plants healthy with appropriate watering, proper pruning, etc.

CONSIDERATIONS



When choosing plants for a fire-resistant landscape, select plants with the following characteristics:

- **High moisture content in leaves** (these ignite and burn more slowly).
- Little or no seasonal accumulation of dead vegetation.
- **Open branching habits** (they provide less fuel for fires).
- Fewer total branches and leaves (again, less fuel for fires).
- **Slow-growing,** so less pruning is required (to keep open structure as noted above).
- Non-resinous material on the plant (i.e. stems, leaves, or needles that are not resinous, (oily, or waxy). Junipers, pines, spruces, and firs are resinous and highly flammable.

7

FIRE RESISTANCE









Landscape with Noncombustible Materials

Using masonry, gravel, or stone walls to separate plant groups adds to the variety and improves the fire resistance of a landscape by breaking up fuel continuity. Use decorative rock, gravel and/or stepping stones in pathways. Cement driveways, walkways, water features and retaining walls also break up continuity. Replace bare, weedy, or unsightly patches of ground near your home with groundcover, turf grass, non-turf grasses, rock gardens, vegetable gardens, and inorganic mulches.

Mulches

Mulches used around the landscape are valuable because they conserve moisture and help reduce weed growth. Organic mulches, such as bark, are often used. However, firebrands from a wildland fire can ignite dry bark mulch, conveying the fire to a building.

Consider using less-flammable types of mulch such as gravel or decorative rock, or a combination of wood bark mulch surrounded by decorative rock mulch. **Choose the location of plants or garden beds that require organic mulches carefully** so not too much bark mulch is near the home or outbuildings. Fine (less than 1/4 inch particles) or stringy organic mulches ignite and burn more rapidly than larger chunks. When exposed to fire, thick mulch layers (greater than 2 inches deep) tend to smolder and are difficult to extinguish. **Do not use wood or bark mulches within 3 to 5 feet of the house.** Instead consider colored rock, rock cinders (scoria, sometimes referred to as lava rock), pavers or other non-flammable, inorganic materials.

Building Materials

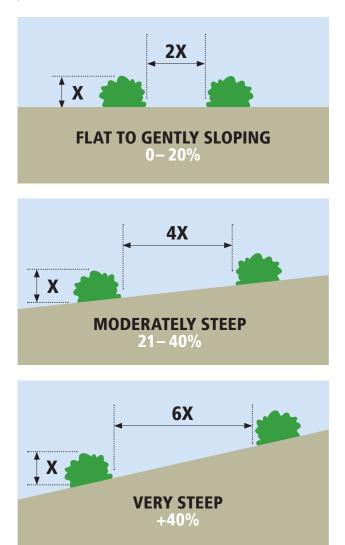
The home design, location, construction materials, and access all influence its survivability during a wildland fire. The most exposed portion of your home is the roof. **Class C or better roofing offers fire resistance** and greatly improves the likelihood of the structure surviving a wildland fire. The use of fire-resistant building materials such as cement board siding, dual-pane windows, boxing in eaves, and metal screening (1/8" or less) covering vents reduces the probability of ignition of one's home. Make sure decks and fencing are in good repair and free of clutter and debris. **Remember, if it is attached to your house, it is part of your house! Consider the use of metal gates and other non-flammable materials** to separate fences and decks from your home. Lawn furniture, decorations and other flammable items may serve as receptor of firebrands and pose an increased risk to your home. See www.firewise.org for additional information about building materials and construction standards.

Defensible Space

The most important person in preventing a structure from burning in a wildland fire is the property owner. Home owners, not fire departments, have the responsibility to take action before a fire ever happens. Actions taken before the fire often determine the final outcome. Creating defensible space around a home is one of the most important and effective steps one can take to protect families, firefighters and homes from catastrophic wildfire. Defensible space is the area between a structure and an oncoming wildfire (or between a burning structure and wildland vegetation) where nearby vegetation has been modified to reduce a wildfire's intensity and ability to spread. Having a defensible space not only protects homes, it also helps protect those who are defending homes by providing safe ingress and egress.

Recommended Separation Distances for Shrubs and Small Conifers

For areas with dense brush and small conifer trees, the recommended separation distance is dependant upon shrub height and steepness of slope. Specific recommendations are presented below.



Note: Separation distances are measured between canopies (outermost branches) and not between trunks.

If your home is located on a 10% slope and the brush is 4-feet tall, the separation distance would be two times the shrub height or 8 feet. The recommended separation distance can be accomplished by removing plants or through pruning that reduces the diameter or height of shrubs (sorter means less separation is needed). Removal works best for sagebrush. For shrubs which readily resprout, pruning to reduce height may be the best approach.

REDUCING IGNITION

HOME IGNITION ZONE AND LANDSCAPE ZONES

he Home Ignition Zone (HIZ) begins at the home and extends out as far as 100 to 200 feet depending on the characteristics of adjacent lands. Keeping and maintaining the Home Ignition Zone lean, clean and green reduces ignition risk and the fire spread potential. Within the Home Ignition Zone, a fire-resistant landscape can be created by reducing flammable fuels. A method to accomplish this is to establish landscape zones that start at the home and move progressively outward. These Landscape Zones (LZ) within the Home Ignition Zone can be used when selecting fire-resistant vegetation in fire-prone environments.

There are three Landscape Zones:

Landscape Zone 1 is closest to the home, while Landscape Zones 2 and 3 subsequently extend out from the structure 30 feet and 100 feet, respectively.

Within this Home Ignition Zone of 100 feet this publication makes recommendations for specific fire-resistant plants suitable for Landscape Zones 1, 2 and 3.

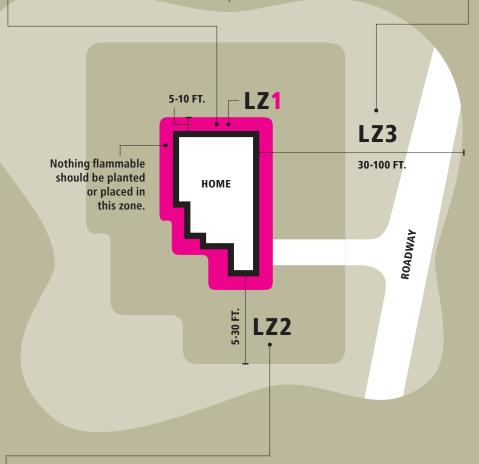
Landscape Zone 1, (LZ1) 5 ft. out from the house,

or structure when constructed with onehour flame-resistant siding, and 10-feet from a structure when constructed with a non-flame-resistant siding.

Nothing flammable should be planted or placed in this zone. This includes trees, brush, tall grass, leaves, firewood piles, bark mulch, and other flammable materials. • Carefully examine under decks and in dense vegetation for accumulated dead material and debris.

• Prune trees that have branches and foliage that hang into Landscape Zone 1 to eliminate the possibility of fire moving to the structure.

• Within this zone, low-flammable plants can be planted; assure they are properly cared for and maintained. The desired categories of plants in LZ1 are groundcovers, vines, sod grasses, bulbs, and annual and perennial herbaceous plants.



Landscape Zone 3, (LZ3) 30-100 ft. from the house

Remove yard debris and thin vegetation for a distance of 30 feet away from the house or structure. Properly designed driveways within LZ3 can provide a fuel break as well as safe ingress and egress for fire suppression resources.

- On slopes greater than 20%, one should extend the thinning of vegetation to 100 feet or more on the downhill side of the home or structure.
- Shrubs and ground covers should be selected based on mature height, not the size at the time of planting.
- Low and moderately flammable plants are acceptable in this location. Density of plant material also should be minimized.
- Brush and weeds should be mowed at least annually. Terracing of steep slopes will help slow wildfire spread, but this depends on wind speed and fuel availability.

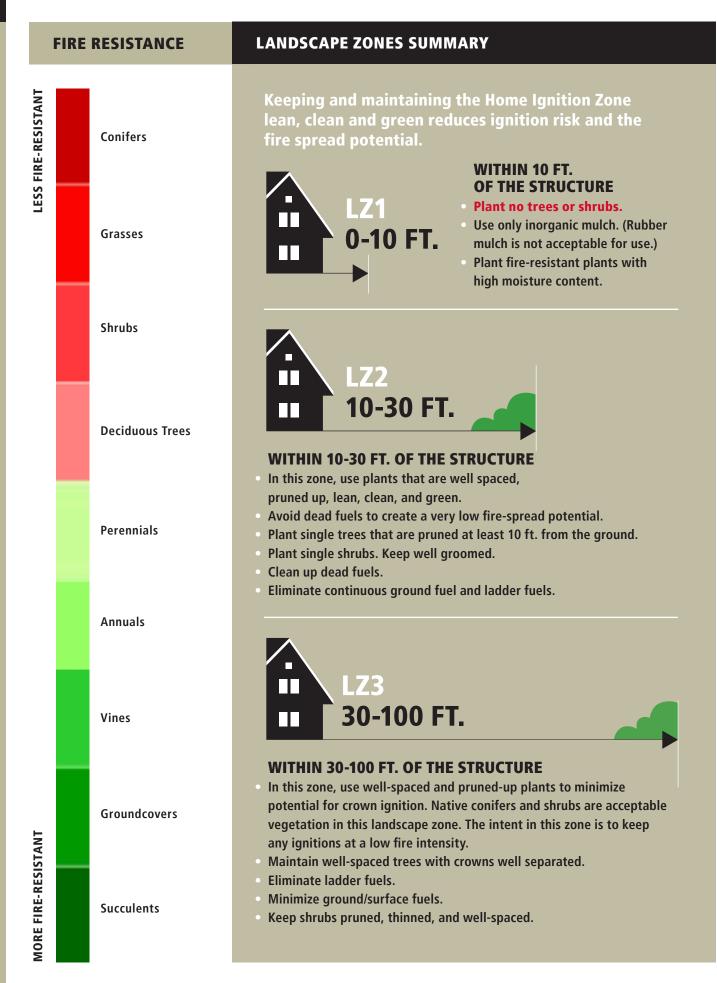
• Trees in LZ3 should have a minimum of 10 to 15 feet of space between tree crowns to prevent the spread of fire. Desired categories of plants in LZ3 include groundcovers, vines, turfgrass, annual and perennial herbaceous plants, broadleaf evergreen and deciduous shrubs and deciduous trees, and non-turf grasses.

Landscape Zone 2, (LZ2) 5-30 ft. from the house

Maintain a well-kept lawn or other suitable landscape in this area.

 Avoid evergreens that ignite easily and burn quickly. Use raised beds, rock gardens, stone walkways, walls, water features, and patios to create visual interest and fuel breaks. • Trees planted in LZ2 should have both a vertical and horizontal clearance distance of at least 30 feet from the house or structure at mature height and spread.

• Leave 10 to 15 feet of space between the edges of tree crowns to avoid fire transfer. The desired categories of plants in LZ2 are groundcovers, turfgrass, vines, sod grasses, bulbs, annual and perennial herbaceous plants, broadleaf evergreen and deciduous shrubs, small and medium sized deciduous trees, and select non-turf grasses.



INTRODUCTION

MAINTENANCE

MAINTENANCE IS ESSENTIAL TO A FIRE-RESISTANT LANDSCAPE

Plants listed as fire-resistant, if allowed to grow unchecked and poorly maintained, can become fire hazards. Proper maintenance of landscaping is crucial and cannot be ignored. Remember: "Lean, clean, and green" are the essentials to a fire-resistant landscape.

Maintenance Practices for Fire-Resistant Landscapes

- Washing dead debris out of plants
- Pruning to remove ladder fuels
- Thinning

MOWING: AS-MOTOR; THINNING: MDVADEN; CLEANING: U. S. FISH AND WILDLIFE SERVICE / NORTHEAST REGION

- Spacing
- Raking
- Weeding
- Mowing/Weed Eating
- Watering
- Clean roofs and gutters
- Using only inorganic mulch close to structures
- Removing dead fuels
- Cleaning up and properly disposing of yard waste
- Separating shrubs horizontally so they are no closer than twice their height
- Separating plants vertically so the space between the top of a shrub and the lower branches of a tree are at least three times the height of the shrub
- Practice "Lean, Clean and Green" maintenance at least 30 feet around the structure
- Reduce spread and intensity
- Prevent ignitions







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NOTES ON TREES, PLANTS



Maples (Genus Acer)

Maples produce many seeds that germinate at a high rate. One tree can produce thousands of seeds each year. When these wind-dispersed seeds germinate, they grow into plants that can displace natives as well as landscape plants. To keep maples in the desired locations, annual maintenance is required. Weeding out unwanted maple seedlings will help keep the area lean, clean and green.

Fruit-bearing Trees

Eastern Washington is an important fruit-growing region. To protect the valuable commercial fruit production in the area, the County Horticultural Pest Board may require a homeowner/occupant to spray or remove a fruit tree. Organic and conventional spray schedules are available, from the County Horticultural Pest Board. The following pests specifically are required to be prevented and controlled:

- Codling moth and San Jose Scale on apples and pears.
- Pear psylla on pears.
- Western cherry fruit fly and spotted wing drosophila on cherries.

This publication intentionally omits orchard-type fruitbearing trees so as to not encourage homeowners to plant potentially problem-causing vegetation. If homeowners and occupants choose to select orchard-type fruit-bearing trees or shrubs, it is imperative that they perform proper maintenance and pest control. Ornamental flowering fruit trees with fruit less than 3/8 inch in diameter are considered safe but should be monitored for pests.

Deciduous Trees

These are trees that shed their leaves at the end of a growing season and regrow them at the beginning of the next growing season. Most deciduous trees bear flowers and have woody stems and broad leaves rather than needle-like leaves.

Deciduous trees are fire-resistant, as a general rule. In Eastern Washington counties shade in the summer and sun in the winter are desired amenities. Most deciduous trees do a good job of providing these attributes, while conifers do not provide the same attributes. Consider the use of deciduous trees in place of conifers on the east, west and south sides of your home for summer shade, winter sun, and fire-resistant characteristics.

Conifers

Conifers are evergreen trees or shrubs of the class Coniferinae (or group Coniferales) including pine, fir, spruce, and other cone-bearing trees and shrubs. This category also includes yews and their plant relatives that bear drupe-like seeds.

Most conifers do not possess fire-resistant attributes. However, some conifers are very fire resilient, meaning they are adapted to survive in fire-prone environments. Many people enjoy conifers for the other characteristics these trees offer. To help reduce the flammability of conifers, owners can employ maintenance techniques to reduce fire hazards. Some of these techniques include spacing, thinning, pruning, removing dead needles in the tree, raking, planting a proper distance from structures (greater than 30 feet), as well as keeping the area clean and properly disposing of vegetative debris. It is important to keep in mind that these trees continue to pose a fire hazard.

Turfgrasses, Annuals and Bulbs

Annuals, bulbs and turfgrasses planted anywhere in Landscape Zones 1, 2, or 3 can provide an excellent fuel break around a home or business. These plants create defensible space for the home and firefighters. These plants, when properly maintained, have a very high moisture content, grow close to the ground, and are difficult to ignite..

NTRODUCTION

WEB RESOURCES



Invasive Plants and Noxious Weeds

Invasive plants, not native to a specific location, unfortunately have been introduced to the landscape. They tend to spread.

An invasive plant is a plant which grows aggressively, spreads, and displaces other plants. Invasive plants tend to appear on disturbed ground, and the most aggressive can actually invade healthy ecosystems.

A "noxious weed," according to the Washington State Noxious Weed Control Board, is the legal term used for an invasive, non-native plant that is so aggressive it harms the local ecosystem or disrupts agricultural production. These plants crowd out native plant species that fish and wildlife depend upon. They also cost farmers, orchardists and ranchers millions of dollars because of control efforts and lost production.

None of the plants in this publication are on the Noxious Weed List as of the date of publication. However, there are some species in this publication that can be considered invasive if proper care and maintenance are not performed.



Hardiness Zones and Heat Zones

The United States Department of Agriculture (USDA) Plant Hardiness Zone Map (http://planthardiness. ars.usda.gov/PHZMWeb/InteractiveMap.aspx) is the standard gardeners use to determine which plants are most likely to thrive at a location. The map is based on the average annual minimum winter temperature.

Much of Eastern Washington is within Plant Hardiness Zones 5 to 7 depending on your specific location within the counties. It is important to remember that the zones are based on average annual minimum temperatures, not the lowest winter temperature experienced. For this reason, one may choose plants that will survive in lower winter temperatures.

American Horticulture Society Heat Zones have the same concept with a zone range from Zone 1 to Zone 12. Plants with a heat zone rating between 4 and 7 will generally thrive in Eastern Washington counties depending on your specific location.



THE PLANT HARDINESS ZONE MAP IS USED TO DETERMINE WHICH PLANTS ARE MOST LIKELY TO THRIVE.

AVERAGE ANNUAL EXTREME MINIMUM TEMPERATURE



PLANT CHARACTERISTICS



may look green on the outside but the interior of the plant is mostly dry, dead fuel, presenting a major threat to nearby structures.





UNFAVORABLE



Arborvitae, the common name given to at least eight different species and cultivars of the genus Thuja, are one of the most fire-prone, and least fire-resistant

shrubs planted in Eastern Washington. Arborvitae is not a recommended fire-resistant plant. There are several species of juniper that also are not recommended fireresistant species. Both arborvitae and juniper have a thin covering of green vegetation and a dense mat of dead, very flammable material underneath the green covering.

Plants that are not recommended for use in fire-prone environments.

The plants in this category have some common characteristics:

- High surface area to volume ratio, that is they have fine-textured parts.
- Low moisture content.
- High percentage of dead fuel matter or debris.

Unfavorable Trees

Pine, Firs, Larch, Spruce, Douglas-Fir, Yew, Arborvitae, Hemlock, Cedar/Juniper

Unfavorable Shrubs

Bitterbrush, sagebrush, Mugo pine, Arborvitae, Juniper, Yew

Unfavorable Grasses

Pampas grass, Cheat grass, 'Karl Foerster'

FAVORABLE



Plants that are recommended for use in fire-prone environments. The plants in this category have some common characteristics:

- Low growing
- Herbaceous plant parts
- Open configuration
- High moisture content/succulent parts
- Water-like sap
- Broad leaves
- Low accumulation of dead materials
- Tight bark

INTRODUCTION

2

LANDSCAPE ZONES

GROUNDCOVERS

ABOUT THIS SECTION

KEY TO SYMBOLS

A category of low-growing or trailing plants generally used to carpet the ground.

These plants are used to cover bare ground and create a uniform appearance.

Groundcovers are ideal for Landscape Zone 1. These plants can be utilized in all three landscape zones (LZ 1, 2, or 3) to provide cover and diversity to one's yard. They are low to the ground, generally have high moisture content, usually require low maintenance, and are, in most cases, difficult to ignite.



3

(6 or more hours).

Prefers full sun



Prefers part shade.

Prefers full shade (6 or more hours). Avoid afternoon sun.

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.

High water-use plant performs well with regular irrigation.

GROUNDCOVERS

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Aegopodium podagraria WEE



Hardiness Zone: 4-9 Size: H/W 6"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Becomes invasive if over watered. Good for shady areas.

Ajuga reptan CARPET BUGLEWEED



\bigcirc

Antennaria microphylla LITTLE-LEAF PUSSYTOR



Hardiness Zone: 3-8 Size: H/W 6"x18" Suculent: No Landscape Zone: 1, 2 or 3 Characteristics

Hardiness Zone: 4-8

Landscape Zone: 1, 2 or 3

This low-growing bugleweed will spread by stolons to form an

Size: H/W 4"x24"

Characteristics

Suculent: No

& Problems:

& Problems: Ideal for open sunny places or is good for rock gardens and around stepping stones and pathways.



Antennaria parvifolia APANESE SPURGE



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Hardiness Zone: 4-7 Size: H/W 2"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Blooms first appear in early spring and continue into late spring. Features small, tubular flower heads in tight terminal clusters.

Antennaria rosea





Hardiness Zone: 4-7 Size: H/W 12"x12" Suculent: No Landscape Zone: 1, 2 or 3x

Characteristics & Problems:

Establishes quickly. Ideal for erosion control in dry areas where few other flowers will grow.

815HOP'S WEED: H. ZELL; ANTENNARIA MICROPHYLLIA: MATT LAVIN; ANTENNARIA PARVI FOLIA: KENRAIZ

Antennaria dioica RUBRA' PUSSYTOES

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Hardiness Zone: 3-9 Size: H/W 6"x12" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Tiny white to pale pink flowers bloom in late spring to early summer on stems rising to 10" tall.

FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

GROUNDCOVERS

Hardiness Zone: 4-8

Landscape Zone: 2 or 3

Fruit green in summer, ripening

to red in fall. Fruit sometimes

remains throughout winter.

Size: H/W 6"x15"

Characteristics

Suculent: No

& Problems:

FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

17

Arabisspecies & cultivars ROCKCRE



Hardiness Zone: 4-7 Size: H/W 6"x6" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Easily grown in gritty or sandy, well-drained soils in full sun. Tolerates hot, dry conditions.

Arctostaphylos uva-ursi KINNICKINNICK



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Artemisia caucasica



Hardiness Zone: 4-7 Size: H/W 5"x24" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems: Prostrate low grower.



ROCKRESS: ANDREY ZHARKIKH, ARTEMISIA SCHIMDTIAMA: JAMESST. JOHN, ARTEMISIA CAUCASICA: GHISLANI18 (AD), ARTEMISIA STELLERIANA: QMERT1234, ARTEMISIA VIRIDIS: FRANCISCO MANUEL BLANCO

Hardiness Zone: 3-9 Size: H/W 2"x8" Suculent: No Landscape Zone: 2 or 3

& Problems: Silvery, aromatic foliage is finely textured with silky pubescence. Excellent accent for borders.

Artemisia stelleriana

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Hardiness Zone: 2-9 Size: H/W 6"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Plants form a spreading mat of

bright silvery-white scalloped leaves.

Artemisia viridis **CREEPING ARTEMISIA**





Hardiness Zone: 3-8 Size: H/W 2"x8" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems: Needs some shade.





Characteristics

Aubrieta deltoidea ROCKCRES



Hardiness Zone: 4-8 Size: H/W 8"x15" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Low-growing, mat-forming habit. Ideal for rock gardens and front of borders. Produces vivid purplered flowers in late spring and early summer.

Aubrieta species & cultivars FALSE ROCKCRESS





Bellium minutum MINIATURE MAT DAISY



Hardiness Zone: 5-9 Size: H/W 12"x36" Suculent: No Landscape Zone: 2 or 3

Hardiness Zone: 4-7

Landscape Zone: 1, 2 or 3

spring. Flowers generally four-

Size: H/W 2"x15"

Characteristics

purple, pink or white.

Suculent: No

& Problems:

Characteristics & Problems: Bellium covers itself with blooms all through spring and early summer.

URINIA: IVAN BILEK; BELLIUM: ZAHRADA; CALLIRHOE INVOLUCRATA: STAN SHEBS; CAMPANULA POSCHARSKYANA: AGNIESZKA KWIECIEN, NOVA

Aurinia saxatilis BASKET-OF-GOLD

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Hardiness Zone: 4-7 Size: H/W 2"x15" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Low-growing, spreading habit. Produces profuse bright yellow spring blossoms that are particularly attractive in rock gardens.

()

Callirhoe involucrata MALLO



Hardiness Zone: 4-8 Size: H/W 6"x36" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Plants typically form a low foliage mound from 6-9" tall on procumbent stems which spread along the ground to 3' wide.

Campanula poscharskyana AN BELLFLOWER





Hardiness Zone: 3-8 Size: H/W 6"x18" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Prostrate, sprawling habit. Typically forms a low, mounding ground cover.

GROUNDCOVERS

Hardiness Zone: 3-7

Landscape Zone: 1, 2 or 3

A short-lived, low-growing,

is typically massed in sunny

mat-forming perennial which

Size: H/W 12"x3"

Characteristics

Suculent: No

& Problems:

locations.

Campanula carpatica CARPATHIAN BELLFLOWER



Hardiness Zone: 3-8 Size: H/W Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Typically forms low-growing clumps of basal foliage which slowly spread to form an attractive ground cover. Cerastium tomentosum SNOW-IN SUMMER





Convallaria majalis LILY-OF-THE-VALLEY



Hardiness Zone: 3-8 Size: H/W 2"x8" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Bell-shaped, sweetly fragrant, white flowers (corollas to 1/3" long) which bloom in early to mid-spring. For use in shady areas where aggressive spreading is desired.

Ceratostigma plumbaginoides HARDY PLUMBAGO



Hardiness Zone: 5-9 Size: H/W 8"x48" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: A wiry, mat-forming perennial which spreads by rhizomes to form an attractive ground cover.

Ducheshea indica MOCK STRAWBERRY



Hardiness Zone: 5-9 Size: H/W 4"x3" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Known for its small, red fruit, yellow flowers, and little leaves.

Delosperma basuticum WHITE EYED ICE PLANT





Hardiness Zone: 5-10 Size: H/W 1"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Good soil drainage is essential for, particularly in winter where moist-to-wet soils can be fatal. GROUNDCOVERS



Hardiness Zone: 5-10 Size: H/W 4"x30" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Heat, drought and salt tolerant, this adaptable plant thrives with little care, even in rocky, unimproved soils.



Delosperma hybrid 'John Proffit' JOHN PROFFIT ICE PLANT

Hardiness Zone: 5-10 Size: H/W 1"x24" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: Good soil drainage is essential, particularly in winter where moist-to-wet soils can be fatal.

Delosperma nubigenum YELLOW ICEPLANT

Delosperma cooperi

PINK ICE PLANT





Hardiness Zone: 4-10 Size: H/W 3"x30" Suculent: Yes Landscape Zone: 1, 2 or 3

Hardiness Zone: 5-10

Landscape Zone: 1, 2 or 3

The neon-like intensity of the

bloom enhance the ornamental

flowers' color and length of

interest. Succulent, fleshy, cylindrical, medium-green leaves.

Size: H/W 1"x24"

Characteristics

Suculent: Yes

& Problems:

Characteristics & Problems:

Mat-forming species that reportedly has the best winter hardiness of the ice plants currently in cultivation. It typically grows to only 2" tall but spreads to 20" wide.



Dianthus species & hyrids



Hardiness Zone: 2-9 Size: H/W 12"x16" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Flowers bloom from late spring to late summer with continued but somewhat sporadic additional bloom into fall.

Ephedra regeliana CREEPING EPHEDRA





Hardiness Zone: 4-7 Size: H/W 6"x24" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Slowly creeps with more leafless, thin, green stems which look like a miniature equisetum until they become bejeweled with red fruits in mid to late summer.

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GROUNDCOVERS

Fragaria species & cultivars STRAWBERRIES



Hardiness Zone: 3-9 Size: H/W 9"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Several varieties and cultivars available.

Fragaria indica 'Pink Panda' SILVER BROCAD



Hardiness Zone: 3-9 Size: H/W 8"x48" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics

& Problems: Prompt removal of fruit as it appears encourages additional flowering.



Hardiness Zone: 3-8 Size: H/W 8"x40" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems: Can be difficult to find in

commerce because usually few nurseries, other than native plant specialists, sell it.

Galium odoratum SWEET WOODRUFF



Hardiness Zone: 4-8 Size: H/W 8"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Small, fragrant, 4-petaled, white flowers appear in loose cymes in spring.



Lamium armenum



Hardiness Zone: 4-8 Size: H/W 10"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

A tufted-to-small-mat-forming perennial from a stout rootstock. Do not plant L. galiobdolon because it is invasive.

Liriope muscari IIRIÓ





Hardiness Zone: 5-10 Size: H/W 4"x24'" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Has good tolerance for heat, humidity and drought.



GROUNDCOVERS

Liriope spicata LIRIO



Hardiness Zone: 4-10 Size: H/W 9"x15" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

A rhizomatous, grass-like perennial which forms a clump of narrow, arching, glossy, dark green leaves (to 1/4" wide) typically growing 9-15" high.



Pachysandra terminalis 'Green Sheen' JAPANESE SPURGI



Hardiness Zone: 4-9 Size: H/W 8"x15" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Flowers are not particularly showy, but on close inspection are quite attractive.

Marrubium rotundifolium SILVER EDGED HOREHOUND





Penstemon caespitosus MAT PENSTEMO



Hardiness Zone: 4-7 Size: H/W 8"x48" Suculent: No Landscape Zone: 1, 2 or 3

Hardiness Zone: 4-9

Landscape Zone: 1, 2 or 3

Size: H/W 10"x18"

Characteristics

One of the best xeric

groundcovers for poor soil

Suculent: No

& Problems:

conditions.

Characteristics & Problems: Lavender-purple, two-lipped flowers (to 1/4" long) with hairy throats bloom in summer.

HIGH COUNTRY GARDENS, PENSTEMON CAESPITOSUS: ANDREY ZHARKIKH; PENSTEMON DAVIDSONII: WALTER SIEG MUND; PENSTEMON DAVIDSONII: GARY A. MONROE

MARRUBIUM:

Penstemon davidsonii PENSTEMO



Hardiness Zone: 5-8 Size: H/W 2"x12" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: Huge lavender-pink flowers held over its dark green evergreen foliage.

Penstemon davidsonii v. menziesii GREEN MAT PENSTEMON





Hardiness Zone: 4-8 Size: H/W 2"x12" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Evergreen, with beautiful flowers that are very attractive to hummingbirds.

GROUNDCOVERS

GROUNDCOVERS

Hardiness Zone: 5-9

Landscape Zone: 2 or 3

Loose clusters of fragrant, tubular, lavender flowers as large

Size: H/W 12"x18"

Characteristics

Suculent: No

& Problems:

as to 3/4" wide.

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Phlox subulata CREEPING PHLO



Hardiness Zone: 4-8 Size: H/W 6"x24" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems: A vigorous groundcover phlox that blooms in mid-spring.

Hardiness Zone: 5-9

Landscape Zone: 1, 2 or 3

Excellent for edging, cascading over walls, or as a groundcover.

Size: H/W 6"x12"

Characteristics

Suculent: No

& Problems:

Phlox stolonifera CREEPING PHLO



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Saponaria ocymoides ROCK SOAPWORT



Hardiness Zone: 2-10 Size: H/W 6"x24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Lovely pink flowers in spring draw attention.

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Saponaria officinalis BOUNCING BET



Hardiness Zone: 4-8 Size: H/W 8"x3" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Can be invasive. It may persist for years around abandoned home

sites and other areas.

Saponaria x lempergii 'Max Frei' GIANT FLOWERED SOAPWORT





Hardiness Zone: 3-7 Size: H/W 6"x48" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Clusters of pink flowers (1"wide) cover the plant in summer..

FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

Phlox x procumbens **CREEPING PHLO**



PHLOS XTOLONIFERA: DAVID J. STANG; SAPONARIA OCYMOIDES: HIGH COUNTRY GARDENS; SAPONARIA OFHCINALIS: CONSULTAPLANTAS; SAPONARIA X LEMPERGI 'MAX FREI': DAVID STANG

Sedum lanceolatum **ELLOW STONECROP**



Hardiness Zone: 5-9 Size: H/W 4"x12" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: Cannot grow in shade. Thrives in dry or moist soil and can tolerate

drought.

Sedum rupestre



Sedum sieboldii 'October Daphne' october DAPHNE STONECROP



Hardiness Zone: 5-8

Size: H/W 6"x20"

Excellent groundcover. Ideal for border fronts or rock gardens.

Sedum sichotense **CREEPING STONECRO**



Hardiness Zone: 4-9 Size: H/W 3"x6" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: Flat, tapering, toothed green leaves turn glowing crimson in fall. Yellow bloom in summer..



Hardiness Zone: 5-9 Size: H/W 4"x12" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: Large light-blue leaves trimmed with rose edges. Arched stems. Rose-pink flowers.



Sedum spathulifolium & cultivars STONECRO



Hardiness Zone: 3-9 Size: H/W 5"x18" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: The wild variety grows on rocky outcroppings and along trail.

Sedum spurium & cultivars TONECR





Hardiness Zone: 3-8 Size: H/W 4"x12" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Thick, succulent, opposing, flattened leaves (to 1" long) with wedge-shaped bases are toothed near the ends ..



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FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

GROUNDCOVERS

Hardiness Zone: 4-8

Landscape Zone: 2 or 3

Leaves evergreen in warm

climates, but will depreciate

considerably in harsh winters.

Size: H/W 4"x24"

Characteristics

Suculent: No

& Problems:

Sempervivum tectorum & cultivars HENS & CHICKS



Thymus praecox CREEPING THYME Hardiness Zone: 4-10 Size: H/W 6"x10" Suculent: Yes Landscape Zone: 1, 2 or 3

Characteristics & Problems: Primarily grown in gardens for their attractive and unusual foliage.

Hardiness Zone: 4-10

Landscape Zone: 2 or 3

Clusters of tiny, tubular, whitish-

to-rose-purple flowers appear in

summer. Flowers are attractive

Size: H/W 2"x48"

Characteristics

Suculent: No

& Problems:

to bees.

Stachys byzantina LAMBS' EAR



Thymus serpyllum & cultivars MOTHER OF THYME



Hardiness Zone: 4-8 Size: H/W 2"x48" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

A hairy, prostrate, creeping, woody-based perennial primarily grown as an ornamental ground cover. Rarely used in cooking.



Veronica liwanensis





Hardiness Zone: 3-8 Size: H/W 1"x18" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Small erect clusters of blue flowers appear above the foliage (to 2" tall) in late spring, covering the mat with a profuse blossoms. Can be invasive into lawns. Veronica oltensis SPEEDWELL







Hardiness Zone: 4-9 Size: H/W 8"x8" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics

& Problems: Profuse blue flowers cover this groundcover in spring. Can be invasive into lawns.r. **iROUNDCOVERS**

FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

GROUNDCOVERS

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Veronica gentianoides GENTIAN SPEEDWELL



Hardiness Zone: 4-7 Size: H/W 12"x18" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Easily grown in average, medium, well-drained soil in full sun.



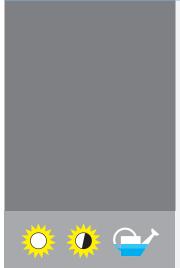
Veronica peduncularis CREEPING VERONICA



Hardiness Zone: 6-9 Size: H/W 9"x12" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: After the main flush of bloom, a sparse, intermittent rebloom might continue throughout summer.

Veronica pectinata WOOLY SPEEDWELL



Veronica rupestris PROSTRATE SPEEDWELL



Hardiness Zone: 4-8 Size: H/W 9"x12" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Sparse, intermittent rebloom might occur in summer and fall.

Veronica austriaca sub.teucrium RGE SPEEDWEI



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Hardiness Zone: 4-8 Size: H/W 18"x12" Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Blue flowers in spring on mounding-to-sprawling plants clad with toothed, oblong, green leaves.

Vinca minor LESSER PERIWINKLE





Hardiness Zone: 4-8 Size: H/W 6"x18" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Tubular, lavender blue, phlox-like flowers (to 1" across) appear in the leaf axils in spring and continue to flower intermittently throughout summer into fall.

ERONICA GENTIANOIDES: KURT STÜBER; VERONICA PEDUNCULARIS, AND VERONICA RUPESTRIS: DAVID J. STANG; VERONICA AUSTRIACA: SERDINYA

Suculent: No Landscape Zone: 1, 2 or 3 Characteristics & Problems: Deer resistant. Evergreen.

Size: H/W 6"x9"

GROUNDCOVERS

Waldsteinia species, varities & cultivars BARREN STRAWBERRY



Hardiness Zone: 4-7 Size: H/W 5"x12" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Features 5-petaled yellow flowers (3/4" diameter) which bloom singly or in clusters in spring.



FIRE-RESISTANT DOES NOT MEAN FIREPROOF!

Even fire-resistant plants will burn if not well maintained. Be sure to keep all of your landscape plants healthy with appropriate watering, proper pruning, etc. GROUNDCOVERS

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JOE MABEL

2

LANDSCAPE ZONES

HERBACEOUS PERENNIALS

ABOUT THIS SECTION

KEY TO SYMBOLS

3

1-

Plants in this category have soft rather than woody tissues, die to the ground in winter, and re-sprout the following spring.

These plants can be planted in Landscape Zone 1 as well as in Landscape Zones 2 and 3. These plants can add a wide variety of color and texture to a landscape. Prefers part shade.

Prefers full sun (6 or more hours).

Prefers full shade (6 or more hours). Avoid afternoon sun.

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.

High water-use plant performs well with regular irrigation.

Achillea species



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Alcea rosea

Hardiness Zone: 4-8 **Size:** H/W 6"-23"x12"-24" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Easily reseeds. Drought tolerant.

Agastache species





Alchemilla species



Hardiness Zone: 4-8 Size: H/W 15"x24" Suculent: No Landscape Zone: 1, 2 or 3

Hardiness Zone: 5-9

Landscape Zone: 2 or 3

Easy to grow, no serious

Size: H/W 1'-4'x1'-2'

Characteristics

& Problems:

problems.

Suculent: No

Deciduous

Characteristics & Problems: Self-seeding, clumping perennial.

Hardiness Zone: 4-8 Size: H/W 72"x24" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Biennial or short-lived.

Anemone blanda species





Hardiness Zone: 4-8 Size: H/W 8"x6" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Naturalizes by rhizomes and reseeding.

Allium species



Hardiness Zone: 4-8 Size: H/W 12"-24"x20"-24" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Easy to grow. More than 700 species available.



FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

Aquilegia species COLUMBINE



Asclepias species

Hardiness Zone: 3-9 Size: H/W 10"-36"x10"-12"' Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Short-lived, but will reseed.

Hardiness Zone: 4-8

Landscape Zone: 1, 2 or 3

Size: H/W 24"x6"

Characteristics

Food source for Monarch

& Problems:

butterfly..

Suculent: No

Deciduous

Armeria maritima SEA THRIFT



Hardiness Zone: 4-8 Size: H/W 6"-10"x8"-12" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Low-growing mounded tuft.



Aster species



Hardiness Zone: 4-8 Size: H/W 24"x12" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Easy to grow. Blooms in fall.



Aurinia saxatilis BASKET-OF-GOLD



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Hardiness Zone: 3-7 Size: H/W 8"-18"x1'-2' Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Low-growing, spreading habit. Bright yellow flowers. Baptisia species FALSE INDIGO





Hardiness Zone: 4-8 Size: H/W 3"x3" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Slow-expanding clumps with deep root system. 31

Bergenia cordifolia & cultivars



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Centranthus ruber

Hardiness Zone: 3-8 Size: H/W 12"-14"x12"-18" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Clump-forming perennial often grown as groundcover.

Hardiness Zone: 4-8

Landscape Zone: 1, 2 or 3

Can be somewhat invasive in

Size: H/W 24"x24"

Characteristics

& Problems:

average soils.

Suculent: No

Deciduous

Campanula species & cultivars



Chamerion angustifolium



Hardiness Zone: 3-7 Size: H/W 22'-3'x2'-3' Suculent: No Landscape Zone: 2 or 3

Hardiness Zone: 3-8

Suculent: No

Characteristics

& Problems:

Deciduous

Size: H/W 6"-30"x12"-18"

Landscape Zone: 1, 2 or 3

Clump-forming. Spreads by

rootstocks. Reseeds, but not to point of being unmanageable.

Characteristics & Problems: Native. Spreads by rhyzomes and seeds. Can be aggressive.



Coreopsis species



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Hardiness Zone: 3-9 Size: H/W 10"-24"x12"-18" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: 70-80 species available. Shear late summer for rebloom.

Delphinium species & cultivars



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Hardiness Zone: 3-7 **Size:** H/W 1'-7'x1'-3' Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Requires protection from strong winds, staking.

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Dianthus species & cultivars



Hardiness Zone: 4-8 **Size:** H/W 6"-12"x1"-18" Suculent: No Evergreen Landscape Zone: 1, 2 or 3

Characteristics & Problems: Forms compact moun. Prefers slightly alkaline soil.

Echinacea purpurea



Hardiness Zone: 3-8 Size: H/W 2'-3'x1.5'-2' Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Good cut flower. Birds like cones in winter.



Gaillardia species & cultivars



Hardiness Zone: 3-10 Size: H/W 8"-36"x12"-24" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Look for disease-resistant varieties. Cut back to encourage late fall bloom.



Guem triflorum





Hardiness Zone: 4-9 Size: H/W 18"x12" Suculent: No Semi-Evergreen Landscape Zone: 1, 2 or 3

Characteristics & Problems: Spreads by rhizomes and can be naturalized. Likes dry, welldrained soil.

Erigeron species

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Hardiness Zone: 4-8 Size: H/W 6"-12" x 12"-18" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems:

About 200 species of annuals, biennials, perennials.

Geranium species

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Hardiness Zone: 4-9 Size: H/W 4"-6"x10"-12" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Plants may be cut back to rejuvenate.



RBACEOUS PERENNIA

Helianthemum nummularium



Hardiness Zone: 4-7 **Size:** H/W 8"-12"x12"-16" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Low-growing, woody stemmed, shrub-like habit.

Hemerocallis cultivars





Hardiness Zone: 3-9 Size: H/W 1'-4'x1'-3' Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems:

More than 60,000 cultivars. Flowers open for 1-2 days. Flowers produced in succession, so bloom time is extended.

Heuchera species & cultivars



Hardiness Zone: 3-8 **Size:** H/W 12"x20"x12"-15" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics

& Problems: Herbaceous, clump forming. Remove stems of spent flowers to encourage rebloom.

Hosta species & cultivars



Hardiness Zone: 3-8 **Size:** H/W 6"-36"x20"-24" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Genus of about 70 shade-loving, rhizomatous, clump-forming perennials.



Iris species & cultivars



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Hardiness Zone: 3-10 Size: H/W 16"-30"x14"-24" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Several varieties available including dwarf, tall bearded, Japanese, and Siberian.

Kniphofia species & hybrids





Hardiness Zone: 4-9 Size: H/W 1'-4'x2'-3' Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Best in evenly moist, well-drained soil. Intolerant of wet, heavy soils.

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Hardiness Zone: 4-8

Landscape Zone: 2 or 3

Long-lasting summer bloomer.

Size: H/W 36"x36"

Characteristics

& Problems:

Suculent: No

Deciduous

Lavandula species



Hardiness Zone: 4-8 **Size:** H/W 1'-3' x 1'-4' Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems:

Although it contains scented oils, this plant is slow to ignite if kept moist.

Leucanthemum x superbum



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Linum perenne



Hardiness Zone: 2-8 Size: H/W 12"-20"x12"-14" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Reseeds. Deadhead to encourage new flowers.

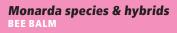
Lupinus species & cultivars



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Hardiness Zone: 4-6 Size: H/W 18"-48" x 24"-26" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Deadhead spent flowers to encourage rebloom. Attractive tall border plant.



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Hardiness Zone: 4-8 Size: H/W 24" x 32"-36" Suculent: No Semi-Evergreen Landscape Zone: 1, 2 or 3

Characteristics & Problems: Attacts bees, butterlies, and hummingbirds when massed.

FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

ERBACEOUS PERENNIA

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Lilium species & hybrids



Oenothera species & hybrids



Hardiness Zone: 3-7 Size: H/W 6"-12"x12"-24" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Showy. Somewhat aggressive spreading habit.

Papaver orientale





Phlox paniculata

Hardiness Zone: 3-7 Size: H/W 2'-3'x'1-2' Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems:

Tends to need support. Foliage dies back after bloom in early summer.

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Penstemon species & hybrids



Hardiness Zone: 3-8 Size: H/W 4"-48"x6"-36" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Excellent for low-water garden.



Hardiness Zone: 4-8 Size: H/W 3'x12"-18" Suculent: No Landscape Zone: 1, 2 or 3

Characteristics & Problems: Many cultivars available. Look for mildew-resistant types.

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Polemonium species



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Hardiness Zone: 3-8 Size: H/W 24"x24" Suculent: No Deciduous Landscape Zone: 1, 2 or 3

Characteristics & Problems: Foliage may scorch in too much sun. Needs consistently moist soil.

Ratibida columnifera





Hardiness Zone: 4-9 Size: H/W 18"-24"x12"-24" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Intolerant of moist, heavy, clay soil. Drought tolerant.

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HERBACEOUS PERENNIALS

Rudbeckia fulgida



Hardiness Zone: 3-9 Size: H/W 2'x2' Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Biennial or short-lived perennial. Freely self seeds.

Salvia species & hybrids



Hardiness Zone: 4-9 **Size:** H/W 18"-28"x2"4-34" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems:

Hardiness varies among species. Formal, spike-like flowers in many colors. Remove spent blooms to promote reblooming.



Veronica prostrate, longifolia, spicata



Hardiness Zone: 4-8 Size: H/W 12"-20"x12"-15"

Landscape Zone: 1, 2 or 3

Characteristics & Problems: Taller varieties might need support. Deadhead or sheer back to promote regrowth and rebloom.





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Hardiness Zone: 4-6 Size: H/W 2'x3' Suculent: Yes Evergreen Landscape Zone: 1, 2 or 3

Characteristics & Problems: Best of yuccas for low maintenance, drought-resistant landscaping.



Zauschneria garrettii 'Orange Carpet'



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Hardiness Zone: 5-9 Size: H/W 18"x25" Suculent: No Deciduous Landscape Zone: 2 or 3

Characteristics & Problems: Regular watering promotes continuous flowering.

FIRE-RESISTANT PLANTS



ERBACEOUS PERENNIAL

Suculent: No Deciduous

VINES





ABOUT THIS SECTION

Plants in this category have long, slender stems. They trail or creep on the ground, or climb by winding themselves about a support or holding fast with tendrils or claspers.

These plants can be used in Landscape Zones 2 or 3. If vines are used in Landscape Zone 1, annual maintenance to remove the previous year's growth and dead vegetation is required to maintain healthy growth and keep the vines fire-resistant. Without proper maintenance all deciduous vines will act as ladder fuels.

Only use vines in Landscape Zone 1 if they are properly maintained. Proper placement and grooming help keep vines in a desired location while meeting the landscape objectives.

KEY TO SYMBOLS

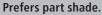
3



(6 or more hours).

2

LANDSCAPE ZONES



Prefers full shade (6 or more hours). Avoid afternoon sun.

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.

High water-use plant performs well with regular irrigation.

Actinidia kolomikta 'Arctic beauty'



Hardiness Zone: 4-8 Size: H/W 20'x10' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Requires a substantial trellis. Protect spring growth.

Akebia quinata CHOCOLATE VINE



Hardiness Zone: 4-8 Size: H/W 30'x9' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Rampant grower. Reseeds readily.



Bignonia capreolata 'Tangerine beauty' CROSSVINE



Hardiness Zone: 5-9 Size: H/W 35'x9' Landscape Zone: 2 or 3

Characteristics & Problems: Vigorous, woody fast-growing vine.

Campsis radicans



Hardiness Zone: 4-9 Size: H/W 40'x10' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Rampant grower through seeds and roots.

Campsis x tagliabuana 'Madame Galen' TRUMPET CREEPER



Hardiness Zone: 4-9 Size: H/W 20'x12' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Rampant grower through seeds and roots.

Clematis species & cultivars CLEMATIS*



Hardiness Zone: 5-9 Size: H/W 15'x15' Landscape Zone: 1, 2 or 3

Characteristics & Problems: *Clematis orientalis is a Class A weed in Chelan County. **Humulus lupulus**



Hardiness Zone: 4-8 Size: H/W 15'x15' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Must be pruned and maintained appropriately to be fireresistance.

Hydrangea anomala subspecies petiolaris



Hardiness Zone: 4-8 Size: H/W 50'x6' Landscape Zone: 1, 2 or 3 Characteristics

& Problems: Non-showy yellow fall color. Fragrant white flowers in flattopped clusters in late spring, early summer.



Lonicera sempervirens 'Magnifica'



Hardiness Zone: 4-7 Size: H/W 11'x8' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Rampant grower. Readily reseeds. Reproduces via roots.

Lonicera heckrottii 'Goldflame'



Hardiness Zone: 5-9 Size: H/W 15'x6' Landscape Zone: 1, 2 or 3

Characteristics & Problems: L. japanica Japanese honeysuckle can be rampant grower through seed and roots.

Parthenocissus quinquefolia



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Hardiness Zone: 3-9 Size: H/W 30'x30' Landscape Zone: 1, 2 or 3

Characteristics & Problems: Rampant grower. Reseeds readily.

Vitis coignetiae





Hardiness Zone: 5-9 Size: Variable Landscape Zone: 2 or 3

Characteristics & Problems: Good fall color. Insignificant flowers, inedible purplish black berries.

VINES

42

Vitis vinifera 'Purpurea'



Hardiness Zone: 6-9 Size: H/W 9'x9' Landscape Zone: 2 or 3

Characteristics & Problems: Grapes are adapted to a wide variety of soil conditions. Irrigation can be detrimental except for table or raisin grapes.



FIRE-RESISTANT DOES NOT MEAN FIREPROOF!

Even fire-resistant plants will burn if not well maintained. Be sure to keep all of your landscape plants healthy with appropriate watering, proper pruning, etc.

2 LANDSCAPE ZONES

DECIDUOUS SHRUBS

ABOUT THIS SECTION

These are woody, multi stemmed plants that lose their leaves in fall and become dormant during the winter. Plants shed their leaves as an adaptation to prevent winter damage. Deciduous shrubs are best located in Landscapes zones 2 and 3. **KEY TO SYMBOLS**



3

Prefers part shade.

Prefers full sun (6 or more hours).

Prefers full shade (6 or more hours). Avoid afternoon sun.

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.

High water-use plant performs well with regular irrigation.

Ameliancher species SERVICEBERRY



Hardiness Zone: 4-5 Size: H/W 12'x8' Landscape Zone: 3

Characteristics & Problems: White-pink flowers yield blue berries. Attractive fall color. Resprouts.

Ceanothus americanus NEW JERSEY TEA



Hardiness Zone: 4-8 Size: H/W 3'x5' Landscape Zone:

Characteristics & Problems: Requires winter cold protection.

Size: H/W 4'x8'

Characteristics

& Problems:



Cornus sericea RED OSLER DOGWOOD



Hardiness Zone: 4-8 Size: H/W 8'x10' Landscape Zone: 2 or 3

Characteristics & Problems: White flowers yield red ornamental fruit. Red branches provide winter color. Cut back at least every 5 years.

Corylus cornuta FILBERT, BEAKED HAZEL





Forsythia species FORSYTHIA







Euonymus alatus 'Compactus' DWARF BURNING BUSH



Hardiness Zone: 4-8 Size: H/W 4'x6' Succulent: No Landscape Zone: 2 or 3

Characteristics & Problems: Leaves turn brilliant red in autumn. Grows best on eastern exposure.

Hardiness Zone: 5-8 Size: H/W 15'x15'

Landscape Zone: 3

Characteristics & Problems:

Showy yellow flowers bloom in early spring. Fertilize and prune post-bloom. Select low-growing variety.

DECIDUOUS SHRUBS

Hardiness Zone: 5-9

Landscape Zone: 2 or 3

Features clusters of small white

Size: H/W 6'x6'

Characteristics

& Problems:

flowers.

Hibiscus syriacus ROSE OF SHARON



Philadelphus hybid species MOCK ORANGE

Hardiness Zone: 5-8 Size: H/W 12'x10' Landscape Zone: 3

Hardiness Zone: 4-8

Landscape Zone: 2 or 3

Fragrant pretty white flowers.

Leggy growth habit. Prune every

Size: H/W 8'x8'

Characteristics

& Problems:

other year.

Characteristics & Problems: Leaves emerge in late spring. Depending on variety, flowers are lavendar, white, rose, or bluish. Can serve as a hedge.

Holodiscus discolor OCEANSPRAY



Rhamnus frangula 'Aspelenifolia' FERNLEAF BUCKTHORN



Hardiness Zone: 2-7 Size: H/W 11'x9' Landscape Zone: 3

Characteristics & Problems: Fern-like foliage. Prefers morning

sun and afternoon shade. Grows best in moist, rich soil. When it falls, fruit can be messy on ground.

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Rhamnus frangula 'Columnaris' TALL HEDGE BUCKTHORN



Hardiness Zone: 2-7 Size: H/W 12'x3' Landscape Zone: 3

Characteristics & Problems:

Can become leggy. Fruit can be messy when it falls to ground. Can be planted to form a hedge.

Rhus glabra MOOTH SUMAC





Hardiness Zone: 3-9 Size: H/W 10'x5' Landscape Zone: 3

Characteristics & Problems: Provides red fall color. Forms thickets. Can be invasive. Use on slopes.

FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

DECIDUOUS SHRUBS

Rosa hybridi NEARLY WILD ROSE



Hardiness Zone: 4-8 Size: H/W 3'x4' Landscape Zone: 3

Characteristics & Problems: Pink blossoms all summer.

Rosa woodsii NOOD'S ROS



Spirea japonica 'Goldmound' GOLDMOUND SPIREA



Hardiness Zone: 3-8 Size: H/W 3'x4' Landscape Zone: 2 or 3

Hardiness Zone: 4-8

Landscape Zone: 2 or 3

Every 5 years in early spring,

prune to 12 inches. Resprouts

Size: H/W 6'x6'

Characteristics

& Problems:

readily.

Characteristics & Problems: Pink flowers. Prune after flowering.



Spiraea bumaldi 'Bumalda'

Hardiness Zone: 3-8 Size: H/W 4'x4' Landscape Zone: 2 or 3

Characteristics & Problems: Pink flowers. Prune after flowering.





Syringa species



Hardiness Zone: 3-7 Size: H/W 3'x7' Landscape Zone: 2 or 3

Characteristics & Problems: Prune after flowering.

Viburnum carlesii 'Korean spice' KOREAN SPICE VIBURNUM



Characteristics & Problems: Pink buds become fragrant, white flower clusters. Prefers acidic, moist soil.

DECIDUOUS SHRUBS

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Hardiness Zone: 3-8 Size: H/W 6'x6' Landscape Zone: 3

Characteristics & Problems: White flat-top flowers yield red fruit. Prefers acidic, moist soil.



Viburnum opulus 'Roseum' EUROPEAN SNOWBALL VIBURNUM



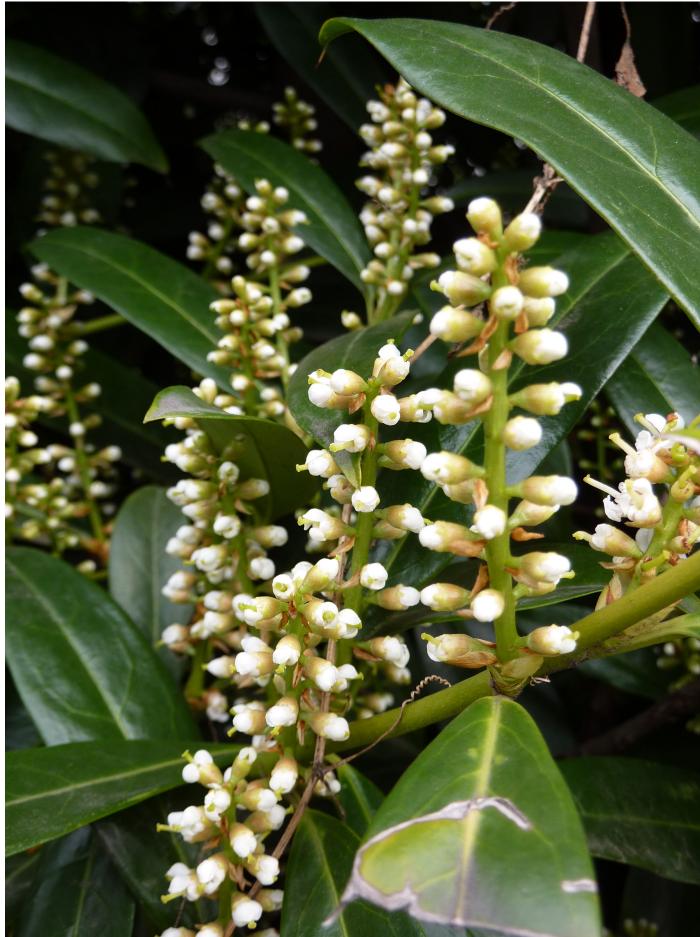
Hardiness Zone: 3-8 Size: H/W 12'x12' Landscape Zone: 3

Characteristics & Problems:

Large 3" snowball flower heads. No berries. Red-yellow fall color. Prefers moist, acidic soil. 47

FIRE-RESISTANT PLANTS FOR EASTERN WASHINGTON

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BROADLEAF EVERGREEN SHRUBS

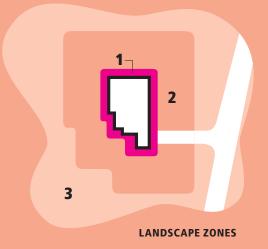
BROADLEAF EVERGREEN SHRUBS

ABOUT THIS SECTION

These are woody, multi-stemmed plants that retain their leaves throughout the

year. Broadleaf evergreen shrubs do shed their leaves, but only a few at a time and on a constant cycle, so there never appears to be any change. Broadleaf evergreen shrubs can provide year-round screening/privacy and are much more fire-resistant than coniferous evergreen shrubs. These shrubs are best located in Landscape zones 2 and 3.

Note: Plants that hold their leaves through winter may suffer winter damage due to the cold and dry climate in our area. These plants usually will put on new healthy green leaves in the spring.



KEY TO SYMBOLS



Prefers full sun (6 or more hours).



Prefers full shade (6 or more hours). Avoid afternoon sun.

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.

High water-use plant performs well with regular irrigation. Atriplex confertifolia SHADESCALE SALTBUSH



Berberis × lologensis 'Apricot Queen'

Hardiness Zone: 3-4 Size: H/W 1'x3' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems: Drought tolerant.

Hardiness Zone: 5-8

Landscape Zone: 2 or 3 Characteristics

Dense grower with delicately arching branches. Small, dark

evergreen leaves have bright,

stems are full of needle-sharp spines that make Berberis

verruculosa an excellent barrier

bluish-white undersides. Hidden

Size: H/W 10'x10'

Suculent: No

& Problems:

hedge.

Berberis thunbergii 'Crimson Pygmy' JAPANESE BARBERRY



Ceanothus gloriosus POINT REYES CEANOTHUS



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Size: H/W 3'x6' Suculent: No Landscape Zone: 2 or 3 Characteristics

Hardiness Zone: 7-9

Hardiness Zone: 5-8

Landscape Zone: 2 or 3

A spiny, broad-rounded, deciduous shrub with obovate green leaves. Leaves typically turn attractive shades of orange,

vellow and red in fall.

Size: H/W 1'x2'

Suculent: No

& Problems:

Characteristics

& Problems:

Varieties available. Small, widespreading shrub with dark-green, leathery foliage and purple-blue flowers in spring. Useful on steep slopes. Needs to be protected from wind. Lives 5-10 years. 386886815 THUNBERGI 'CRIMSON PYGMY': LIAM KAPLAN



Cotoneaster species COTONEASTER



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FOR EASTERN WASHINGTON

FIRE-RESISTANT PLANTS

Hardiness Zone: 5-8 Size: H/W 1'x3' Suculent: No Landscape Zone: 2 or 3

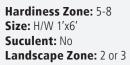
Characteristics & Problems:

Some are deciduous. Vary in size from 6" ground cover to 10' hedge plant. All species of cotoneaster feature a wide spread three times or more their height, glossy leaves, and red or black fall and winter berries. Most species shrug off adverse conditions like drought, strong winds, salt spray, infertile soil and variable pH.

Cotoneaster dammeri BARBERRY CONTONEASTER







Characteristics & Problems:

Low-growing variety; makes good ground cover. In spring small white flowers, followed in late summer by red berries. Fall foliage is bronze/purple.

BROADLEAF EVERGREEN SHRUBS

Hardiness Zone: 5-8

Landscape Zone: 2 or 3

Low growing with bright hot-pink

spring. Can be kept at almost any size by pruning after flowering.

fragrant flowers that open mid

Highly fragrant, showy flowers. Keep from excessivly wet soils. Can tolerate hot sun and

Size: H/W 1'x3'

Suculent: No

& Problems:

drought.

Characteristics

Daphne x burkwoodii 'Carol Mackie'



Euonymus x fortunei

()

Hardiness Zone: 4-8 Size: H/W 4'x4' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Semi-evergreen shrub with variegated leaves. Features fragrant, pink/white star-sharped flowers in spring.

Hardiness Zone: 4-7

Landscape Zone: 2 or 3

Problems: A low-growing,

erect to semi-erect shrubby form

which typically grows as a dense,

Features lustrous, ovate to elliptic,

toothed, dark green leaves (1-1.5"

turn pinkish-red in fall and winter.

Flowers at best sparse, but usually not present. If given support, 'Emerald 'n' Gold' will climb a wall.

sprawling, tangled, bushy mat.

long) edged with gold. Leaves

Inconspicuous, greenish-white

flowers might appear in June.

Size: H/W 4'x3.5'

Characteristics &

Suculent: No

Daphne cneorum



Lonicera pileata



Hardiness Zone: 5-9 Size: H/W 3'x8' Suculent: No

& Problems:

semi-evergreen shrub which is typically grown as a high ground cover. Glossy green leaves to 1 1/4" long. Small fragrant yellowish-white flowers in spring. Flowers give way to small translucent purple berries (1/4" wide) which mature in fall.

Dense, spreading, evergreen to

Landscape Zone: 2 or 3 Characteristics

Mahonia aquifolium



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Hardiness Zone: 3-9 Size: H/W 5'x6' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Upright growth habit. Shiny, dark-green foliage in summer. Yellow flowers open in spring, followed by blue/black berries in late summer. In autumn leaves turn red-purple.

Mahonia repens





Hardiness Zone: 3-8 Size: H/W 1.5'x2' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Similar to Oregon grapeholly, but smaller. Yellow flowers produce blue/black berries. Spreading branches feature green leaves that turn red/purple in autumn.

OADLEAF EVERGREEN SHRUBS

Paxistima myrtifolia



Hardiness Zone: 5-8 Size: H/W 4'x4' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Thick, light-green leaves on lowgrowing shrub. Remains more compact in areas with full sun.

Prunus laurocerasus



Hardiness Zone: 6-8 Size: H/W 18'x25' Suculent: No

Characteristics & Problems:

Broad, dense, spreading habit. No fall color. Tiny, cup-shaped, creamy white flowers in upright clusters bloom from the leaf axils in April-May. Highly fragrant flowers give way to somewhat inconspicuous black drupes that ripen in mid-summer. This bitter fruit loved by birds.

Potentilla fruticosa



spring after bloom.

Prunus laurocerasus 'Otto Luyken'



Hardiness Zone: 6-8 Size: H/W 4'x8' Suculent: No Landscape Zone: 2 or 3

Hardiness Zone: 3-8

Landscape Zone: 2 or 3

Easily grown in average, medium-

full sun. Best flowering occurs in full sun, but plants tolerate part shade. Established plants grow well in a wide range of conditions

moisture, well-drained soils in

and have good drought tolerance. Plants have excellent winter hardiness. Prune in late

Size: H/W 3'x3'

Suculent: No

& Problems:

Characteristics

PRUNUS LAUROCERASUS: KRZYSZTOF ZIARNEK; PYRACANTHA ANGUSTIFOLIA: E64; FIRETHORN PYRACANTHA: ACABASHI

Compact cultivar. Free-flowering.

Characteristics & Problems:



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Pyracantha angustifolia 'Gnome'

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Landscape Zone: 2 or 3

Pyracantha species & cultivars





Hardiness Zone: 6-8 Size: H/W 12'x10' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Impenetrable shrub for informal hedges, hedgerows, or dense screens. Also effective when massed to cover slopes. Severe pruning performed after flowering will adversely affect fruit production. Espaliers trained on wall or fence. Best planted in areas where thorns will not present hazard.

Hardiness Zone: 6-7 Characteristics

Size: H/W 6'x8' Suculent: No Landscape Zone: 2 or 3

& Problems:

Noted for spring white flowers in drooping clusters, glossy green leaves, needle-like spines, and orange-red berries in fall.

BROADLEAF EVERGREEN SHRUBS

Hardiness Zone: 6-9

Landscape Zone: 2 or 3 Characteristics

A genus of 500 to 900 species

that includes both of what are

commonly called rhododendrons and azaleas. Most are evergreen;

some deciduous. Appreciated for their showy spring flowers and, in the case of evergreen types, for their attractive winter foliage. Colors range from white to pink,

Size: H/W 1'x3'

Suculent: No

& Problems:

red, and purple.

Rhododendron macrophyllum PACIFIC RHODODENDRON



Hardiness Zone: 6-9 Size: H/W 12'x12' Suculent: No Landscape Zone: 3

Characteristics

& Problems: Native to the Northwest. Dark green leaves. Pale pink to lavendar flowers in spring. Grows best in acidic soil.

Viburnum x burkwoodii cultivars and varieties



Hardiness Zone: 5-8 Size: H/W 10'x5' Suculent: No Landscape Zone: 3

Characteristics & Problems:

Densely branched, multistemmed habit Fragrant white flowers arranged in flat-topped cymes (2-4" wide) in spring. Flowers are followed by pendulous clusters of red berrylike drupes which ripen black. Fruit is not particularly showy. Glossy dark green leaves (to 4" long) turn maroon in fall.

Rhododendron species & cultivars RHODODENDRON/AZALEA



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Viburnum species & hybrids VIBURNUM



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Yucca harrimaniae 'Neomexicana' NEW MEXICO YUCCA





Hardiness Zone: 4-6 Size: H/W 2'x2' Suculent: Yes Landscape Zone: 1 & 2

Characteristics & Problems: Small species forming clumps of rosettes.

Hardiness Zone: 2-9 Size: H/W 4'x15' Suculent: No Landscape Zone: 2 or 3

Characteristics & Problems:

Not all are evergreen. This group of shrubs has showy flowers, many of which are fragrant. Flowers followed by clusters of berries that may be yellow, orange, red, blue or black. Grow in full sun to partial shade in well-drained soil amended with organic matter. Useful in a shrub border or as a screen. Not bothered by rabbits, squirrels or deer. TOADLEAF EVERGREEN SHRUBS

Yucca glauca





Hardiness Zone: 4-6 Size: H/W 2'x4' Suculent: Yes Landscape Zone: 1 & 2

Characteristics & Problems:

Adapted to low-water growth conditions. Also known as small soapweed, soapweed yucca, Spanish bayonet, Great Plains yucca and beargrass. Yucca glauca forms colonies of rosettes. Yucca filamentosa ADAM'S NEEDLE



Hardiness Zone: 4-10 Size: H/W 4'x3' Suculent: Yes Landscape Zone: 2 or 3 MORIORI

Characteristics & Problems:

Swordlike, stiff leaves in various tones of green, gray-green or variegated yellow and green. In summer produces tall stalks topped by plumes of white flowers.



FIRE-RESISTANT DOES NOT MEAN FIREPROOF!

Even fire-resistant plants will burn if not well maintained. Be sure to keep all of your landscape plants healthy with appropriate watering, proper pruning, etc.

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LANDSCAPE ZONES

NON-TURF GRASSES

ABOUT THIS SECTION

These generally are non-lawn-forming grasses, native or naturalized to the area. In most cases, they are non-invasive. Sometimes referred to as "conservation grasses," they generally are deep-rooted, grow taller than turfgrasses (lawn grasses) and produce more flowering shoots than lawn grasses. Most non-turf grasses have deep roots and—once established—require little irrigation.

The primary objective of including non-turf grasses in this document is to provide alternatives to some of the non-native invasive plants that are common to Eastern Washington. Cheatgrass (Bromus tecturm) (as well as several other introduced species) poses a high fire hazard in this area. The grasses listed here are less of a fire hazard and offer several other benefits that may be desirable to home owners.

Bunch grasses generally remain green two to four weeks longer that cheat grass and—if ignited—fire is generally less severe. All grasses, once dried, can become a fire hazard. For this reason they need to be mowed/cut to reduce the intensity and rate of spread of a potential wildland fire. There are several grass species listed here that are able to reduce the density of cheat grass. The probability of eliminating cheat grass entirely from a site is not high without intensive rehabilitation efforts over an extended period. Non-turf grass should be planted in landscape zone 2 & 3.

KEY TO SYMBOLS

3



Prefers part shade.

Prefers full sun (6 or more hours).

Prefers full shade (6 or more hours). Avoid afternoon sun.

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.



High water-use plant performs well with regular irrigation.

NON-TURF GRASSES

56

Carex species & cultivars



Hardiness Zone: 3-6 Size: H 12-20" Form: Sod Landscape Zone: 1, 2 or 3

Characteristics & Problems: Many different species. Prefers swampy areas. Elymus wawawaiensis cultivars SNAKE RIVER WHEATGRASS



Festuca idahoensis IDAHO FESCUE

Hardiness Zone: 3-6 Size: H 8-16" Form: Bunch Landscape Zone: 3 PHOTOS ON THIS PAGE: EASTERN WA UNIVERSITY

Characteristics & Problems: Good competitor with cheat

grass. Stays green longer.



Festuca glauca BLUE FESCUE



Hardiness Zone: 3-6 Size: H 6-10" Form: Bunch Landscape Zone: 2 or 3

Characteristics & Problems: Fine-textured. When watered stays green well into the summer.



Hardiness Zone: 3-6 Size: H 6-10" Form: Bunch Landscape Zone: 2 or 3

Characteristics & Problems: Native bunchgrass with fine texture.



Festuca ovina SHEEP FESCUE

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Hardiness Zone: 3-6 Size: H 6-10'" Form: Bunch Landscape Zone: 2 or 3

Characteristics & Problems:

A species from Europe and Asia that has become somewhat naturalized in North America.

Koeleria glauca BLUE HAIRGRASS





Hardiness Zone: 3-6 Size: H 6-24' Form: Bunch Landscape Zone: 2 or 3

Characteristics & Problems: Grows well in dunes and sandy soils.

NON-TURF GRASSES

Koeleria macrantha PRAIRIE JUNEGRASS



Hardiness Zone: 3-6 Size: H 10-14" Form: Bunch Landscape Zone: 3

Characteristics & Problems: Cool-season grass. Turns dormant in late summer. Nassella tenuissima MEXICAN FEATHER GRASS



Hardiness Zone: 3-6 Size: H 24-36" Form: Bunch Landscape Zone: 3

Characteristics & Problems: Readily reseeds.



Pascopyrum smithii western wheatgrass



Hardiness Zone: 3-6 Size: H 12-36" Form: Sod Landscape Zone: 2 or 3

Characteristics & Problems: Often covered with a white coating, lending a silvery cast to its blue-green leaves.

Poa secunda SANDBERG BLUEGRASS



Hardiness Zone: 3-6 Size: H 6-10" Form: Bunch Landscape Zone: 2 or 3

Characteristics & Problems: Hardy grass that grows well in rocky areas.

Poa secunda 'Mountain Home' SANDBERG BLUEGRASS



Hardiness Zone: 3-6 Size: H 6-10" Form: Bunch Landscape Zone: 2 or 3

Characteristics & Problems: More drought tolerant than some grasses.

Pseudoroegneria cristatum CRESTED WHEATGRASS

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& Problems: Early season, hardy grass. Course texture. 57

ON-TURF GRASSE

NON-TURF GRASSES

58

Pseudoroegneria spicata BLUEBUNCH WHEATGRASS



Hardiness Zone: 3-6 Size: H 12-30" Form: Bunch Landscape Zone: 3 ALL PHOTOS ON THIS PAGE: EASTERN WA UNIVERSITY

Characteristics & Problems: Native bunchgrass.



Pseudoroegneria spicata inermis BEARDLESS WHEATGRASS



Hardiness Zone: 3-6 Size: H 8-20" Form: Bunch Landscape Zone: 3

Characteristics & Problems: Good competitor with cheatgrass. Stays green longer.



Sporobolus cryptandrus SAND DROPSEED



Hardiness Zone: 3-6 Size: H 8-20" Form: Bunch Landscape Zone: 3

Characteristics & Problems:

Produces a dense, sand-binding network of roots which can spread up to 2' laterally and 8' deep.



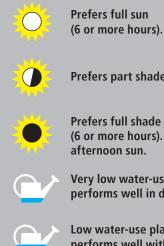
ABOUT THIS SECTION

Trees are woody perennial plants that have a single stem (trunk) generally growing to a height greater than 20 feet. A tree has a crown with lateral branches starting well above ground level.

There are two main categories of trees: deciduous and conifer. Most of the broadleaf trees in Eastern Washington are deciduous, they lose their leaves in the fall and grow new leaves in the next growing season. Conifers, cone bearing trees with needle-like leaves, make up the majority of evergreen trees that grow well in Eastern Washington.

Treee planting locations require fore thought. The size and shape of the mature tree must be considered. Larger trees need to be located in Landscape zone 3 while smaller/medium size trees can be planted in Landscape zones 2 or 3. **KEY TO SYMBOLS**

3



Prefers part shade.

Prefers full shade (6 or more hours). Avoid afternoon sun.

2

LANDSCAPE ZONES

Very low water-use plant; performs well in dry sites.



Low water-use plant; performs well with minimal supplemental irrigation.



Moderate water-use plant; performs well with supplemental irrigation.

High water-use plant performs well with regular irrigation.

TREES

Acer species



Hardiness Zone: 2-9 Size: H/W 75'x75' Landscape Zone: 3

Characteristics & Problems: Often reseeds and sprouts.

Acer glabrum ROCKY MOUNTAIN MAPLE



Acer Saccharum



Hardiness Zone: 2-9 Size: H/W 80'x60' Landscape Zone: 3

Hardiness Zone: 2-7

Landscape Zone: 2 or 3

Resprouts from root crown. Can be small tree or shrub.

Size: H/W 30'x15'

Characteristics

& Problems:

Characteristics & Problems: Source of maple syrup.

Excellent shade tree. The sugar maple leaf is the national symbol of Canada.

WAPLE: W. CARTER: ACEN GLABRUM-OUGLAS MAPLE: WSJEGMUND 2006; ACER SACCHARUM GREEN MOUNTAIN: DAVID). 5TANG, ACER SACCHARUM. JEM. 1996; ACEN SACTARUM GREEN MOUNTAIN: DAVID 2005; ACEN REGUNDO: HERMAN, DE. ET AL. 1996; ACEN REGUNDO SENSATION: ANRODOOZ

Acer saccharum 'green mountain' GREEN MOUNTAIN MAPLE



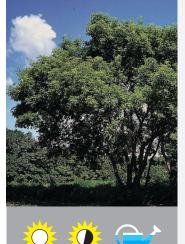
Hardiness Zone: 4-8 Size: H/W 60'x45' Landscape Zone: 2 or 3

Characteristics & Problems:

Rapid growth rate. Straight central trunk branching to a narrow ovate head. Thickened and strong crotched. Thick deepgreen foliage. Resistance to leaf hoppers and leaf scorch.



Acer negundo



Hardiness Zone: 2-9 Size: H/W 50'x35' Landscape Zone: 3

Characteristics & Problems:

Not recommended because of a variety of problems. Use cultivars in lieu of boxelder.

Acer negundo 'Sensation' SENSATION BOXELDER MAPLE





Hardiness Zone: 2-8 Size: H/W 30'x25' Landscape Zone: 2 or 3

Characteristics & Problems: Grown for attractive foliage.

Acer negundo 'Violaceum' BOXELDER



Hardiness Zone: 2-9 Size: H/W 15'x20' Landscape Zone: 2 or 3

Characteristics & Problems: Very pretty spring flowers.

Acer ginnala varities & cultivars AMUR MAPLE



Acer rubrum varieties & cultivars RED MAPLE



Hardiness Zone: 3-9 Size: H/W 60'x40' Landscape Zone: 3

Hardiness Zone: 2-9

Landscape Zone: 2 or 3

Resprouts from root crown. Lowbranched, multi-stemmed growth habit. Might become invasive by

Size: H/W 30'x20'

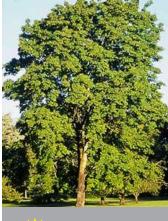
Characteristics

& Problems:

reseeding.

Characteristics & Problems: Adaptable. Easy to transplant and establish. Tolerant of many conditions.

Acer macrophyllum BIGLEAF MAPLE



Hardiness Zone: 4-9 Size: H/W 75'x50' Landscape Zone: 3

Characteristics & Problems: Native of Northwest. Leaves sometimes greater than 15" across.



Aesculus species HORSECHESTNUT & BUCKEYE



Hardiness Zone: 4-9 Size: H/W 60'x50' Landscape Zone: 2 or 3

Characteristics & Problems:

The genus *Aesculus*, with varieties called 'buckeye' and 'horse chestnut', comprises 13-19 species.

Aesculus hippocastanum COMMON HORSECHESTNUT



Hardiness Zone: 4-8 Size: H/W 60'x50' Landscape Zone: 3

Characteristics & Problems: Resprouts from root crown.

Water deeply to prevent root surfacing.



Alnus species

ALDER

Hardiness Zone: 4-8 Size: H/W 60'x50' Landscape Zone: 3

Characteristics & Problems: White flowers on this fruitless cultivar.

Hardiness Zone: 4-9

Landscape Zone: 2 or 3

Resprouts from root crown.

Not ideal ornamental tree.

Size: H/W 40'x20'

Characteristics

& Problems:

Aesculus × carnea 'Briotii'





Alnus glutinosa



Hardiness Zone: 4-9 Size: H/W 50'x30' Landscape Zone: 2 or 3

Hardiness Zone: 5-8

Landscape Zone: 2 or 3

A beautiful landscape tree for large lawns. Noted for its dark

Size: H/W 35'x35'

Characteristics

& Problems:

red flowers.

Characteristics & Problems: Resprouts from root crown. Not ideal ornamental tree.

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Alnus tenuifolia



Hardiness Zone: 53-9 Size: H/W 25'x20' Landscape Zone: 2 or 3

Characteristics & Problems: Resprouts from root crown. Not ideal ornamental tree.

Betula species BIRCH

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Hardiness Zone: 2-9 Size: Varies Landscape Zone: 2 or 3

Characteristics & Problems: A wide variety of fire-resistant birch is available.

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Betula populifolia 'Whitespire' WHITESPIRE BIRC

Hardiness Zone: 3-6 Size: H/W 40'x20' Landscape Zone: 2 or 3

Characteristics & Problems:

Noted for its non-peeling chalky, white bark with dark chevron trunk patches appearing below each branch base and its long, pointed, triangular, green leaves.

Betula occidentalis NATER BIRC



Hardiness Zone: 4-6 Size: H/W 33'x15' Landscape Zone: 2 or 3

Characteristics & Problems: Resprouts from root crown. Basal buds & seeds.



Betula nigra 'Cully' Heritage HERITAGE R



Hardiness Zone: 4-9 Size: H/W 55'x50' Landscape Zone: 2 or 3

Characteristics & Problems: One of the most disease-free birches.

Carpinus betulus EUROPEAN HORNBEA



Hardiness Zone: 4-8 Size: H/W 40'x30' Landscape Zone: 2 or 3

Characteristics & Problems: Name comes from the extremely hard wood that takes a horn-like polish.

Carpinus betulus 'Frans Fontaine' ONTAINE HORNBE



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Hardiness Zone: 4-8 Size: H/W 40'x20' Landscape Zone: 2 or 3

Characteristics & Problems:

Columnar variety that can be hard pruned to create large-scale screens or hedges.

Catalpa × erubescens 'Purpurea'





Hardiness Zone: 3-8 Size: H/W 45'x40' Landscape Zone: 2 or 3

Characteristics & Problems: Blackish-purple, heart-shaped leaves in spring.

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Catalpa bignoniodes 'Nana'



Hardiness Zone: 5-9 Size: H/W 20'x15' Landscape Zone: 2 or 3

Characteristics & Problems: Nonflowering. Good in small spaces, under power lines, or in street right-of-way.

Catalpa speciosa Northern Catalpa





Celtis reticulata



Size: H/W 30'x25' Landscape Zone: 2 or 3 **Characteristics**

Hardiness Zone: 4-9

Hardiness Zone: 4-8

Landscape Zone: 3

Forms high canopy and

Size: H/W 90'x45'

Characteristics

& Problems:

deep roots.

& Problems: Deep-rooted, so less likely to crack pavement and facilitates lawn growth beneath tree.

Celtis occidentalis COMMON HACKBERR



Hardiness Zone: 2-9 Size: H/W 60'x50' Landscape Zone: 3

Characteristics & Problems: Resprouts from root crown. Tolerates heat, wind, drought, poor soil and air pollution.



Cercis canadensis varieties & cultivars ASTERN REDRU



Hardiness Zone: 4-8 Size: H/W 35'x30' Landscape Zone: 2 or 3

Characteristics & Problems:

Leaves turn pale yellow to greenish-yellow in fall. Several varieties and cultivars available.

Cercocarpus montanus MAHOGAN MOUNTAIN





Hardiness Zone: 5-10 Size: H/W 12'x8' Landscape Zone: 2 or 3

Characteristics & Problems:

A native American small tree which grows in dry foothills and lower mountain regions of the West.



Cercocarpus ledifolius CURL-LEAF MOUNTAIN MAHOGANY

Hardiness Zone: 4-8 Size: H/W 15'x12' Landscape Zone: 2 or 3

Characteristics & Problems: Can be considered an evergreen shrub or small tree depending on how maintained.

Cornus stoloniferia



Hardiness Zone: 3-7 Size: H/W 15'x20' Landscape Zone: 2 or 3

Characteristics & Problems: Attractive flowers in the spring.



Cornus sericea TWIG DOGWOOD



Hardiness Zone: 3-8 **Size:** H/W 9'x12'

& Problems: Small tree if pruned to remove canes; without pruning more like a shrub.

Landscape Zone: 2 or 3 Characteristics



Hardiness Zone: 5-8 **Size:** H/W 15'x30' Landscape Zone: 2 or 3

Characteristics & Problems: A stunning flowering tree or large shrub with good fall color. Effective as shrub border.

Cornus florida varieties & cultivars



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Hardiness Zone: 5-9 Size: H/W 30'x25' Landscape Zone: 2 or 3

Characteristics & Problems: Prone to scorch in this area without some shade.

Cotinus coggygria varieties & cultivars





Hardiness Zone: 5-8 Size: H/W 25'x15' Landscape Zone: 3

Characteristics & Problems: Amount of fine fuel this tree produces results in lowered fire resistance rating.

Cornus kousa

SA DOGWOOD

Diospyros virginiana AMERICAN PERSIMMON



Hardiness Zone: 4-9 Size: H/W 25'x30' Landscape Zone: 2 or 3

Characteristics & Problems: Resprouts from root crown and buds. Frost sensitive.

Fagus species



Hardiness Zone: 3-9 Size: H/W 80'x80' Landscape Zone: 3

Characteristics & Problems: No serious insect or disease problems. PYROS VIRGINIAMA: FRITZFLOHRREYNOLDS; BEECH: ANEMONEPROJECTORS; FRENLEAF BEECH: DAN KECK; FAGUS SYLVATICA: T. DAVIS SYDNOR; ASH: ROBERT FLOGAUS-FAUST

DIOSP



Fagus sylvatica 'Aspleniifolia' FERNLEAF BEECH



Hardiness Zone: 4-7 Size: H/W 60'x60' Landscape Zone: 3

Characteristics & Problems: Leaves turn golden brown in fall.

Fagus sylvatica 'Dawyck purple' COLUMNAR PURPLE EUROPEAN BEACH



Hardiness Zone: 4-9 Size: H/W 50'x15' Landscape Zone: 3

Characteristics & Problems:

Dark purple foliage of this columnar tree is noticable. In spring deep reddish-purple leaves emerge and darken to burgundy purple.



Fagus sylvatica EUROPEAN BEECH



Hardiness Zone: 4-7 Size: H/W 60'x45' Landscape Zone: 2 or 3

Characteristics & Problems: There are a number of varieties and cultivars.

Fraxinus species





Hardiness Zone: 3-9 Size: H/W 70'x40' Landscape Zone: 2 or 3

Characteristics & Problems:

Emerald ash borer is a problem for this genus. There are several varieties and cultivars.

Fraxinus americana'



Hardiness Zone: 3-9 Size: H/W 60'x40' Landscape Zone: 3

Characteristics & Problems: There are several varieties and cultivars.

Fraxinus americana 'Autum purple'



Hardiness Zone: 3-9 Size: H/W 80'x40' Landscape Zone: 3

Characteristics & Problems: Beautiful purplish-red fall color. Ash borer can become a problem.



Gingko biloba MAIDENHAIR TREE



Hardiness Zone: 3-8 Size: H/W 80'x40' Landscape Zone: 2 or 3

Characteristics & Problems: An ancient genus of tree.

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Fraxinus pennsylvanica 'Marshall' MARSHALL GREEN ASH



Hardiness Zone: 3-7 Size: H/W 60'x40' Landscape Zone: 3

Characteristics & Problems: Glossy, dark-green foliage turn yellow in fall. This cultivar is seedless.



Size: H/W 40'x30' Landscape Zone: 2 or 3

Characteristics & Problems:







Hardiness Zone: 3-8 Size: H/W 60'x50' Landscape Zone: 3

Characteristics & Problems: Thornless; Tolerant of poor soils, heat, drought, wind and cold.

Gingko biloba 'Autum Gold'



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Hardiness Zone: 3-8

Bright golden autumn leaves.





Hardiness Zone: 3-8 Size: H/W 40'x35' Landscape Zone: 2 or 3

Characteristics & Problems: No fall color.

Gleditsia triacanthos inermis 'Rubylace' RUBYLACE HONEYLOCUST



Hardiness Zone: 4-8 Size: H/W 30'x25' Landscape Zone: 2 or 3

Characteristics & Problems: Prone to wind change.

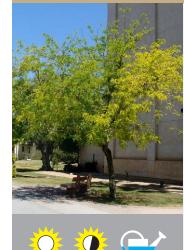
Gleditsia triacanthos inermis 'Shademaster' SHADEMASTER



Hardiness Zone: 3-8 Size: H/W 70'x50' Landscape Zone: 2 or 3

Characteristics & Problems: Provides denser shade than other honeylocusts. Avoid planting near utility lines. Thornless.

Gleditsia triacanthos inermis 'Sunburst' SUNBURST HONEYLOCUST



Hardiness Zone: 3-8 Size: H/W 40'x35' Landscape Zone: 2 or 3

Characteristics & Problems: Prone to wind damage.

Hardiness Zone: 3-8

Landscape Zone: 3

Very fire-resistant tree.

High canopy. Frost sensitive.

Size: H/W 70'x55'

Characteristics

& Problems:

Gleditsia triacanthos inermis 'Skyline' SKYLINE HONEYLOCUST



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Hardiness Zone: 3-8 Size: H/W 45'x35'

Landscape Zone: 2 or 3

Characteristics & Problems: A thornless and nearly seedless variety.

Gymnocladus dioicus KENTUCKY COFFEETREE

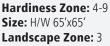




Landscape Zone: 3

& Problems: Resprouts from root crown. Prone to disease.

Size: H/W 65'x65'



Characteristics



Juglans nigra BLACK WALNUT

Koelreuteria paniculata



Hardiness Zone: 5-9 Size: H/W 40'x40' Landscape Zone: 2 or 3

Characteristics & Problems: Showy, long, yellow flowers. Reseeds readily.









Hardiness Zone: 5-9 Size: H/W 80'x45' Landscape Zone: 3

Characteristics & Problems: Resprouts from root crown. Spiny fruit in yard could be a nuisance.



Hardiness Zone: 3-7 Size: H/W 50'x35' Landscape Zone: 2 or 3

Characteristics & Problems: Free of insect and disease problems. Features classic elmlike form. Fruitless.

Hardiness Zone: 5-9

& Problems:

ESPESSO KENTUCKY: MASSERHALAWEH; JUGLANS MAJOR (ARIZONA WALNUT); BRUCE MARUN; GOLDENRAIN TREE: STANZILLA; GOLDENCHAIN TREE: DAVID J. STANG; AMERICAN SWEETGUM: JEBULON

Juglans major ARIZONA WALNUT



Laburnum watereri I DENCHAIN TRE



Hardiness Zone: 5-7 Size: H/W 30'x30' Landscape Zone: 2 or 3

Characteristics & Problems: Poisonous seed pods might pose danger to children or pets.

Liquidambar styraciflua WEET



Liriodendron tulipifera TULIP TREE



Hardiness Zone: 4-9 Size: H/W 100'x50' Landscape Zone: 3

Characteristics & Problems: Roots may surface in lawn if not watered deeply and independently of turf.

Maackia amurensis MAACKLA



Hardiness Zone: 3-7 Size: H/W 30'x30' Landscape Zone: 2 or 3

Characteristics

& Problems: Dark, olive-green leaves are attractive in summer but produce no fall color.



Maclura pomifera 'White shield' WHITE SHIELD OSAGE-ORANGE



Hardiness Zone: 5-7 Size: H/W 30'x40' Landscape Zone: 2 or 3

Characteristics & Problems: Both fruitless and thornless.

Malus floribunda JAPANESE FLOWERING CRABAPPLE



Hardiness Zone: 4-7 Size: H/W 15'x25' Landscape Zone: 2 or 3

Characteristics & Problems: Disease resistant. Slightly susceptible to scab, powdery mildew, and fireblight.

Hardiness Zone: 3-7 Size: H/W 45'x60'

Landscape Zone: 3

Noted for its attractive shape,

Characteristics

& Problems:

bark and foliage.

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Morus alba WHITE MULBERRY



Hardiness Zone: 4-8 Size: H/W 30'x50' Landscape Zone: 2 or 3

Characteristics & Problems:

Tolerates heat, drought, wind, cold & air pollution. Berries produce a mess when they drop to ground.

Phellodendron amurense AMUR CORKTREE

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Platanus acerifolia LONDON PLANE TREE/SYCAMORE



Hardiness Zone: 4-8 Size: H/W 100'x75' Landscape Zone: 3

Characteristics & Problems: Plant 25'-30' from any concrete.

Hardiness Zone: 1-6

Landscape Zone: 3

Sprouts readily, so can be

problematic in landscapes.

Size: H/W 50'x30'

Characteristics

& Problems:

Populus species ASPEN/COTTONWOOD/POPLAR





Populus tremula 'Erecta' COLUMNAR SWEDISH ASPEN





Hardiness Zone: 1-6 Size: H/W 40'x10' Landscape Zone: 2 or 3

Hardiness Zone: 1-9

Fairly short-lived genus, 50-70 years. Some species can

Size: H/W 60'x40' Landscape Zone: 2 or 3

Characteristics

& Problems:

be problematic.

Characteristics & Problems: Upright, columnar growth habit; does not sucker as much as quaking aspen.

Quercus species



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Hardiness Zone: 3-9 **Size:** H/W variable Landscape Zone: 2 or 3

Characteristics & Problems: Oaks cover a wide spectrum of size and habitat.

Quercus acutissima





Hardiness Zone: 6-9 Size: H/W 60'x60' Landscape Zone: 3

Characteristics & Problems: Sawtooth oak is considered a low-maintenance tree with good pest resistance.

FOR EASTERN WASHINGTON FIRE-RESISTANT PLANTS

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Quercus alba WHITE OAK



Hardiness Zone: 3-9 Size: H/W 75'x75' Landscape Zone: 3

Characteristics & Problems: Most oaks survive periodic fires.

Quercus bicolor SWAMP WHITE OAK



Hardiness Zone: 3-8 Size: H/W 55'x55' Landscape Zone: 2 or 3

Characteristics & Problems: Tolerates wet soil.

Quercus douglasii BLUE OAK



Hardiness Zone: 5-8 Size: H/W 30'x50' Landscape Zone: 2 or 3

Characteristics & Problems: Medium-sized. Drought-resistant. Might retain its leaves year-round on moist sites.

Quercus gambelii GAMBEL OAK



Hardiness Zone: 3-8 Size: H/W 10'x5' Landscape Zone: 2 or 3

Hardiness Zone: 5-8

Landscape Zone: 3

In autumn leaves turn yellow to

light orange, but become brown

during mid to late fall. Pewter-

Size: H/W 75'x75'

Characteristics

colored, rippled bark.

& Problems:

Characteristics & Problems: Higher tolerance to fire compared to other oaks.



Quercus garryana OREGON WHITE OAK



Hardiness Zone: 6-8 Size: H/W 90'x60' Landscape Zone: 3

Characteristics & Problems:

Open-grown trees develop very broad, rounded crowns with massive, crooked branches on short, massive trunks.

Quercus lobata VALLEY OAK





Quercus macrocarpa BUR OAK



Hardiness Zone: 3-8 Size: H/W 60'x30' Landscape Zone: 3

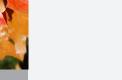
Characteristics & Problems: Acorns can be an important source of food for wildlife.

Quercus palustris



Hardiness Zone: 4-8 Size: H/W 75'x40' Landscape Zone: 3

Characteristics & Problems: Infrequently attacked by the common diseases of oaks.



Hardiness Zone: 5-8 Size: H/W 60'x20'

Characteristics & Problems:

Quercus robur



Hardiness Zone: 5-8 Size: H/W 70'x70' Landscape Zone: 3

Characteristics & Problems: Considered to be a lowmaintenance tree with few problems.

Quercus robur 'Fastigiata' COLUMNAR ENGLISH OAK



Landscape Zone: 3

Good substitute for lombard poplar.





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Hardiness Zone: 4-8 Size: H/W 75'x70' Landscape Zone: 3

Characteristics & Problems: Generally a durable and longlived tree.

Rhamnus purshiana





Hardiness Zone: 5-8 Size: H/W 30'x20' Landscape Zone: 2 or 3 Characteristics

& Problems: Readily reseeds ..

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Hardiness Zone: 4-9 Size: H/W Variable Landscape Zone: 2 or 3

Characteristics & Problems: Numerous varieties best grown

in dry or native planting areas. Regular watering promotes dense, weak branching which increases maintenance. Can be invasive.

Robinia pseudoacacia 'Purple Robe' PURPLE ROBE LOCUST



Hardiness Zone: 4-8 Size: H/W 40'x30' Landscape Zone: 2 or 3

Characteristics & Problems: Very adaptable in tough environments.

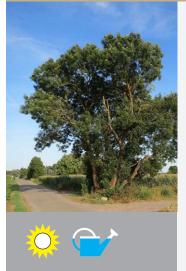
Salix species WILLOW



Hardiness Zone: 3-7 Size: H/W Variable Landscape Zone: 2 or 3

Characteristics & Problems: Readily sprouts and reseeds. Short-lived.

Salix alba GOLDEN WILLOW



Hardiness Zone: 2-8 Size: H/W 65'x65' Landscape Zone: 2 or 3

Characteristics & Problems:

White willow generally not recommended for residential landscapes. Susceptible to numerous diseases and insect pests.

Salix amygdaloides





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Hardiness Zone: 3-7 Size: H/W 25'x40'

Landscape Zone: 2 or 3

Characteristics & Problems:

Grows very quickly. Shortlived. Can only spread by seeds, while most other willows can propagate from roots or snapped bits of twig.

Sophora japonica JAPANESE PAGODA TREE





Hardiness Zone: 4-8 Size: H/W 75'x75' Landscape Zone: 2 or 3

Characteristics & Problems: Cultivated for its attractive compound foliage and fragrant late-summer flowers. Sorbus alnifolia MOUNTAIN OREA



Sorbus sitchensis

Hardiness Zone: 3-7 Size: H/W 50'x25' Landscape Zone: 2 or 3

Characteristics & Problems: Considered one of the best of the mountain ashes because of its pest resistance and form.

Hardiness Zone: 2-7

Landscape Zone: 2 or 3

Small growth habit. Colorful

Size: H/W 13'x13'

Characteristics

berries attract birds.

& Problems:

Sorbus aucuparia



Hardiness Zone: 3-6 Size: H/W 30'x20' Landscape Zone: 2 or 3

Characteristics & Problems: Flowering ornamental.



Tilia americana



Hardiness Zone: 2-7 Size: H/W 80'x50' Landscape Zone: 3

Characteristics & Problems: Dense canopy may inhibit turf growth, if planted in or near lawn.

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Tilia cordata ITTLELEAF LINDEN



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Hardiness Zone: 3-7 Size: H/W 70'x50' Landscape Zone: 3

Characteristics & Problems: Dense canopy may inhibit turf growth, if planted in or near lawn.

Tilia × euchlora CALICASIAN LINDE

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Hardiness Zone: 3-8 Size: H/W 40'x30' Landscape Zone: 2 or 3

Characteristics & Problems: Small cultivar of linden. 75

REFERENCE FURTHER READING AND WEBSITES FOR FIRE-RESISTANT PLANTS AND FIREWISE INFORMATION

Choosing the Right Plants for Northern Nevada's High Fire Hazard Areas

https://extension.unr.edu/publication.aspx?PubID=3448 This publication has a plant list and extensive Firewise information.

Fire Resistance of Plants Master Database & Placement of Species within Firewise Landscape Zones for Southern Idaho

http://idahofirewise.org/assets/library/Homeowner%20 Information/Firewise%20Landscaping/Fire%20Resistance%20 of%20Plants%20Master%20Database.pdf

This publication has a comprehensive plant list that rates plants by flammability. Also, it has a significant amount of fire-resistant plant information.

Firewise Plant Materials

http://extension.colostate.edu/topic-areas/natural-resources/ firewise-plant-materials-6-305/

A publication from Colorado that has a comprehensive plant list and discusses landscaping and maintenance.

Protecting and Landscaping Homes in the Wildland/ Urban Interface

https://www.extension.uidaho.edu/publishing/pdf/SB/SB67.pdf A complete Firewise document that discusses a broad spectrum of topics starting with a plant list and including preventing loss of home and evacuation, if necessary.

Defensible Space Landscaping in the Urban/Wildland Interface: A compilation of fire performance ratings of residential landscape plants

http://cesutter.ucanr.edu/files/156934.pdf

A comprehensive reference source about plants, with citations.

Arizona Fire-resistant Plant List

https://extension.arizona.edu/sites/extension.arizona.edu/files/ pubs/az1291.pdf

A list of trees, shrubs and grasses.

Fire-Resistant Plants for Home Landscaping

https://catalog.extension.oregonstate.edu/pnw590 A list and description of plants for Oregon and Washington.

California Division of Fire – CDF, Cal Fire www. fire.ca.gov Ready for Wildfire CDF website www.readyforwildfire.org

Idaho Firewise www.idahofirewise.org

Washington State University Extension Service www.extension.wsu.edu/

University of Nevada- Reno https://www.unce.unr.edu/

Living with fire. www.livingwithfire.info

U.S. Forest Service

www.fs.fed.us

Bureau of Land Management. www.blm.gov

National Interagency Fire Center.

www.nifc.gov

Cascadia Conservation District http://cascadiacd.org/wildfire-preparedness

Fire adapted communities

www.fireadaptedcommunities.org

Fire-Resistant Plants for Oregon Home Landscapes. Fitzgerald, Stephen; Waldo, Amy Jo. OSU Extension Service

https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/ fsbdev3_035870.pdf

Firewise Plant Materials. Dennis, F.C. CSU Cooperative Extension Natural Resources No. 6.305

https://extension.colostate.edu/topic-areas/natural-resources/ firewise-plant-materials-6-305/

Washington State Department of Natural Resources

https://washingtondnr.wordpress.com/category/wildfire/

USDA Rocky Mountain Research Station. http://firelab.org

National Fire Protection Association. http://www.nfpa.org/safety-information/fire-prevention-week

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National Interagency Fire Center

http://www.nifc.gov/

Protecting and Landscaping Homes in the Wildland and Urban Interface. Barkely. Y, C. Schnepf and J. Cohen. September 2010. University of Idaho Extension

http://www.urbanforestrysouth.org/resources/library/ttresources/ protecting-and-landscaping-homes-in-the-wildland-urbaninterface

Living with Fire: A Guide for the Homeowner. https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/ fsbdev3_020876.pdf

Fire education for landowners: Fuel reduction series. Information about fire behavior and fuels reduction methods from Oregon State University

http://www.cof.orst.edu/cof/extended/extserv/wildlandfire/ woodlandowners.php.

Let's Clear the Air About Outdoor Burning. Washington State Dept. of Ecology Website

https://ecology.wa.gov/Air-Climate/Air-quality/Smoke-fire

National Firewise. Website of the National Firewise Communities Program

http://www.firewise.org/

Chumstick Wildfire Stewardship Coalition. Example of an eastern Washington Firewise Community

http://www.chumstickcoalition.org/

Tolt Firewise. An Example of A Western Washington Firewise Community

http://www.firewise.org/wildfire-preparedness/be-firewise/ success-stories/washington/tolt.aspx?sso=0

University of Idaho Extension Forestry.

http://www.uidaho.edu/extension/forestry

National Wildfire Coordinating Group (NWCG).

www.nwcg.gov

Colorado State University

http://extension.colostate.edu/topic-areas/natural-resources/ firewise-plant-materials-6-305/

Fire-resistant Plants for Home Landscapes

https://catalog.extension.oregonstate.edu/sites/catalog/files/project/pdf/pnw590.pdf

USDA Plants Database: Washington Noxious and Invasive Plant List

http://plants.usda.gov/java/noxious?rptType=State&statefips=53

Chelan County Noxious Weed List

http://www.co.chelan.wa.us/files/noxious-weed/documents/county_selected_list.pdf

Forestry Images

https://www.forestryimages.org/

Protecting and Landscaping Homes in the Wildland/Urban Interface

https://www.uidaho.edu/extension/forestry/topic/fire

National Resource Conservation Service (NRCS) https://plants.usda.gov/factsheet/pdf/fs_elwa2.pdf

Marin County Firesafe Council

www.Firesafemarin.org

Fire-resistant Plants for Ashland Oregon www.ashland.or.us

Eastern United State Fire Performance Plant Selector http://www.fire.sref.info/

Missouri Botanical Garden.

http://www.MissouriBotanicalGarden.org



GLOSSARY

Annual Plant: A plant that completes its life cycle in one growing season.

Aspect: Cardinal direction toward which a slope faces.

Climate: The prevalent or characteristic meteorological conditions of any place or region and their extremes.

Deciduous Shrub: A woody, generally multi-stemmed plant that loses its leaves and becomes dormant during the winter.

Deciduous Tree: A tree that sheds its leaves at the end of a growing season and regrows them at the beginning of the next growing season. Most deciduous trees bear flowers and have woody stems and broad, rather than needle-like, leaves.

Drought: A period of relatively long duration with substantially below-normal precipitation, usually occurring over a large area.

Duff: The layer of decomposing organic materials below the litter layer of freshly fallen twigs, needles, and leaves and immediately above the mineral soil.

Ecosystem: An interacting natural system including all the component organisms together with the abiotic environment and processes affecting them.

Environment: The complex surroundings of an item or area of interest such as air, water, natural resources, and their physical conditions (temperature, humidity).

Evaporation: The transformation of a liquid to its gaseous state; heat is released by the liquid during this process.

Evergreen shrub: A woody, multi-stemmed shrub that retains its leaves throughout the year.

Fine Fuels: Fast-drying dead or live fuels, generally characterized by a comparatively high surface area-to-volume ratio, which are less than 1/4-inch in diameter and have a timelag of one hour or less. These fuels (grass, leaves, needles, etc.) ignite readily and are consumed rapidly by fire when dry.

Fire Frequency: A general term referring to the recurrence of fire in a given area over time.

Fire Hazard: A fuel complex, defined by volume, type condition, arrangement, and location, that determines the degree of ease of ignition and of resistance to control.

Fire Interval: The number of years between two successive fire events for a given area; also referred to as fire-free interval or fire-return interval.

Fire Risk: The chance of fire starting as determined by the presence and activity of causative agents.

Firebrand: Any source of heat, natural or human-made, capable of igniting wildland fuels. Flaming or glowing fuel particles that can be carried naturally by wind, convection currents, or by gravity into unburned fuels.

Fire: Rapid oxidation, usually with the evolution of heat, fuel, oxygen and the interaction of the three.

Firewise: A national program that emphasizes community involvement and provides important information for residents to reduce the risk of wildland fire igniting homes.

Fuelbreak: A natural or manmade change in fuel characteristics which affects fire behavior so that fires burning into them can be more readily controlled.

Fuel: Any combustible material, especially wildland fuels.

Groundcover Plant: A low-growing or trailing group of plants usually used to cover bare earth and create a uniform appearance.

Hazard Fuel: A fuel complex defined by kind, arrangement, volume, condition, and location that presents a threat of ignition and resistance to control.

Hazard Reduction: Any treatment of living and dead fuels that reduces the potential spread or consequences of fire.

Hazard: Any real or potential condition that can cause injury, illness or death of personnel, or damage to, or loss of equipment or property.

Heat Zone: The American Horticultural Society (AHS) developed the Heat Zone Map, which parallels the USDA Hardiness Zone Map. This map is based on the number of "heat days" experienced in an area. A heat day is defined as a day in which the temperature climbs to over 86 degrees F. At this temperature, many plants begin to experience physiological damage and start to shut down. Heat Zones range from 1 (no heat days) to 12 (210 or more heat days).

Herbaceous Perennial: A plant with soft, rather than woody, tissues. Perennials die back to the ground each year but their roots remain alive and send up new top growth each spring.

Home Assessment: Evaluation of a dwelling and its immediate surrounding to determine its potential to escape damage by an approaching wildland fire. Includes the fuels and vegetation in the yard and adjacent to the structure, roof environment, decking and siding materials, prevailing winds, topography, fire history, etc., with the intent of mitigating fire hazards and risks.

Invasive Plant: A plant that is both non-native and able to establish on many sites, grow quickly, and spread to the point of disrupting plant communities or ecosystems.

Ladder Fuels: Fuels which provide vertical continuity between strata, thereby allowing fire to carry from surface fuels into the crowns of trees or shrubs with relative ease. They help initiate and assure the continuation of crowning.

Landowner: The person or entity that owns the land or has the authority to convey title to others.

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Limbing: Removing branches from a standing tree or shrub.

Live Fuel Moisture Content: Ratio of the amount of water to the amount of dry plant material in living plants.

Live Fuels: Living plants such as trees, grasses, and shrubs in which the seasonal moisture content cycle is controlled largely by internal physiological mechanisms, rather than by external weather influences.

Live Herbaceous Moisture Content: Ratio of the amount of water to the amount of dry plant material in herbaceous plants (i.e., grasses and forbs).

Live Woody Moisture Content: Ratio of the amount of water to the amount of dry plant material in shrubs.

Maintenance: The work of keeping something in proper condition, care or upkeep including taking steps to avoid something breaking down (preventative maintenance) and bringing something back to working order (corrective maintenance).

Native Species: A species which is a part of the original fauna or flora of the area in question.

Natural Barrier: Any area where lack of flammable material obstructs the spread of wildfires.

Non-turf grass: A grass that is generally not used in the formation of a lawn or in a continuous mat of grass. Often referred to as conservations grasses.

Noxious Weed: An invasive species of a plant which is designated as harmful to agricultural crops, ecosystems, or humans or livestock.

Probability of Ignition: The chance that a firebrand will cause an ignition when it lands on receptive fuels.

Risk: The chance of fire starting as determined by the presence and activity of causative agents. A chance of suffering harm or loss. A causative agent such as ignition source.

Shrub: A woody perennial plant differing from a perennial herb by its persistent and woody stem, and from a tree by its low stature and habit of branching from the base.

Slope Percent: The ratio between the amount of vertical rise of a slope and horizontal distance as expressed in a percent. One hundred feet of rise to 100 feet of horizontal distance equals 100 percent.

Spot Fire: Fire ignited outside the perimeter of the main fire by a firebrand.

Structure: A constructed object, usually a free-standing building above ground.

Tree: A woody perennial plant, typically having a single stem or trunk growing to a considerable height and bearing lateral branches at some distance from the ground. **Vine:** A plant having a long, slender stem that trails or creeps on the ground or climbs by winding itself about a support or holding fast with tendrils or claspers.

Volatiles: Readily vaporized organic materials which, when mixed with oxygen, are easily ignited.

Wildland Fire: Any non-structure fire that occurs in vegetation or natural fuels. Wildland fire includes prescribed fire and wildfire.

Wildland Urban Interface (WUI): The line, area, or zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels. Describes an area within or adjacent to private and public property where mitigation actions can prevent damage or loss from wildfire.

Wildland: An area in which development is essentially non-existent, except for roads, railroads, powerlines, and similar transportation facilities. Structures, if any, are widely scattered.

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Daphne x burkwoodii 'Carol Mackie'	Carol Mackie daphne .
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FIRE-RESISTANT DOES NOT MEAN FIREPROOF!

Even fire-resistant plants will burn if not well maintained. Be sure to keep all of your landscape plants healthy with appropriate watering, proper pruning, etc.

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