

Woody Weeds

of Clackamas County

Identification and Management

This guide is intended to build awareness about common woody weeds affecting Clackamas County and provide options for managing them. Some woody weeds are notoriously aggressive while others grow under the radar, slowly impacting a property. Some are desirable species that only occasionally escape cultivation to become weedy. Due to the significant investment often required to control these plants, it can be helpful to identify and manage them early, before they take hold and spread.

Accurate identification is crucial but can be difficult. This guide provides a starting place for familiarizing yourself with the more common woody weeds that you may encounter when managing property in Clackamas County. Similarly, we only highlight commonly recommended management options. This guide is not intended to be your sole identification and management resource. Please see the additional resources section for more information.

What is a woody weed?

This weed guide covers plants that are woody, non-native, and are either invasive or naturalized in Clackamas County. We also include invasive species likely to be introduced here that would present a high economic or environmental risk to the county.

Plants like these are sometimes sold commercially. **Their inclusion here is not intended as a judgment of their horticultural value** but is provided as a means to help landowners avoid potential problems.

Most non-native plants introduced for landscape or agricultural purposes do not naturalize or become weedy. However, some do. We recommend that you research any weedy tendencies before introducing plants onto your property.

Woody plants have a prominent above-ground stem that persists through time. This includes



Woody weeds often require significant effort to manage. Here, gorse (*Ulex europaeus*) is removed with a chainsaw and herbicides as part of a WeedWise eradication project.

shrubs, vines, and trees. Some large plants, such as Japanese knotweed (*Fallopia japonica*), appear woody, but actually die back every year.

Non-native refers to plants that are found in areas where they historically did not occur. We do not cover *native* species that are often described as weeds, such as poison oak (*Toxicodendron diversilobum*).

Naturalized refers to non-native plants that reproduce consistently and sustain populations in the wild over many life cycles without direct intervention by humans (or in spite of human intervention). These species are not necessarily weedy in all settings.

Invasive plants are non-native, naturalized species whose aggressive growth displaces native or desirable vegetation and has a negative impact on our community.

Noxious plants have a special designation by a state or municipality that prohibits their sale or cultivation. Species designated by the Oregon State Weed Board as noxious in Oregon are noted in bold red text.

Many thanks to WeedWise Specialist, Jeff Lesh whose hard work made this publication possible.

Recommended Citation:

Lesh, J. *Woody Weeds of Clackamas County*. 2019. WeedWise Program, Clackamas Soil and Water Conservation District. Oregon City, OR.





J. Leeh Clackamas Soil and Water Conservation District

Identification can require detailed knowledge of plant parts. The WeedWise Program is available to help!

Identification Tips

Identifying your weeds allows you to access helpful information, including effective control methods, and helps to avoid impacting desirable species. To increase your plant identification abilities, practice noticing the plants that surround you. Pay attention to all aspects of the plant.

Key identification features for woody weeds:

- Plant height and form
- Single stem vs. multi-stemmed
- Leaf color, size, and shape
- Flower color, size, and shape
- Fruit color, size, and shape
- Bark texture and color
- Habitat and location

Woody plants can sometimes be difficult to identify if some of these features are not present. At times, you may need to consult an expert or wait until the plants are mature and the necessary features are present.

This guide helps with identification but is not intended to be your sole identification resource. Please see the additional resources section for introductory and advanced identification guides.

Weed Reporting

For priority invasive species new to our area, we recommend that you report what you find to the WeedWise program (weeds@conservationdistrict.org, 503-210-6000) or the Oregon Invasive Species Hotline (<https://oregoninvasiveshotline.org/>).

Impacts

In Clackamas County, woody weeds vary from well-known species like Scotch broom (*Cytisus scoparius*) to less impactful species like European mountain-ash (*Sorbus aucuparia*) which can still come to dominate and displace native vegetation in some settings. Considering observed and potential impacts of occurring species helps you to prioritize which woody plants warrant management on your property.

Potential impacts of these weeds include:

- displacing native vegetation
- reducing crop yields
- harming fish and wildlife
- harming human health
- damaging property and infrastructure
- reducing forage for livestock and wildlife
- decreasing property values
- increasing erosion
- decreasing water quality and quantity
- limiting land use
- disrupting ecological processes



Himalayan blackberry (*Rubus armeniacus*) bushes impact farm infrastructure and reduce available pasture for forage.



English Ivy (*Hedera hibernica*) affecting tree canopy.

Management

We recommend that you consider a range of preventative and control options to help maximize your effectiveness and reduce costs and environmental impacts. Please see the additional resources section for detailed control options, timing, and precautions.

Preventative Methods

How you manage your property can help considerably toward preventing weed invasions. First, avoid planting woody plants that are likely to spread in your setting. Second, promote healthy competing vegetation to help resist weed establishment. In pastures, for example, management techniques can encourage highly competitive forage that reduces weed invasions considerably. Address preventative measures in concert with control measures. Be sure to minimize soil disturbance, soil compaction, and other impacts to desirable vegetation during management work.

Mechanical Control

Digging with a shovel or excavator and/or pulling the plants by hand or with a weed wrench can effectively control some species by removing the roots. This work is best done when soils are moist in winter and spring. Plants with extensive root systems and rhizomes will likely not be controlled effectively by this method. Mowing can be effective on some species at certain stages of growth, but often needs to be combined with other methods or repeated regularly to manage resprouting.

Biological Control

Introduced biological controls, including insects and pathogens, are active on a few invasive species.

Cultural Control

Goats and other livestock browse woody vegetation but often need to return several times to manage resprouting plants. Fencing and intensive grazing management is often necessary. Contract grazers are available for consultation and hire in our region.

Herbicides

Herbicides are also commonly used for control, especially on large infestations or with certain problematic species. Common active ingredients registered for woody plant control in Oregon include 2,4-D, triclopyr, glyphosate, dicamba, and imazapyr.

The label is the law and contains approved requirements for use, application methods, rates, and other conditions for use. It is important to read the label several times prior to purchasing and using the product. Be sure to selectively target the weed and avoid desirable plants. Consider hiring a licensed applicator when appropriate.

Foliar applications are made to plant leaves (and are most effective) when applied to a plant that is fully covered with foliage, actively growing, and not drought stressed. Late summer or early fall are often the best times to apply. Small-scale foliar applications are typically made using a hand-held or backpack sprayer, while large-scale broadcast applications are made with boom or boomless nozzle sprayers mounted on large equipment.

Applications of herbicides to cut stumps are made by using a lopper, handsaw, or chainsaw to fully cut away the above-ground stem and immediately apply a concentrated herbicide to the outside ring of living tissue on the stump. This method is typically effective throughout the year and is often done in fall and winter.

Basal bark applications are made to the lower portions of the stem and are absorbed through the bark. This method avoids the need to cut the plant.

Hack and squirt applications (also known as frilling) are made using a hatchet or knife to strike the plant stem and immediately apply concentrated herbicide to the small opening created.



Hand Pull



Effective on young plants and/or those with shallow roots.

Weed Wrench



Effective on many small shrubs and tree saplings that lack rhizomes.

Chainsaw



Effective on some plants and often combined with other methods.

Norway maple

Acer platanoides

Deciduous tree to 65 feet

Introduced from Europe and **invasive** in disturbed forests, woodlands, and forest edges.

Similar to native and non-native *Acer* species.



Sycamore maple

Acer pseudoplatanus

Deciduous tree to 100 feet

Introduced from Europe and occasionally found in disturbed forests, woodlands, and forest edges.

Similar to native and non-native *Acer* species



Brush Mow



Effective on some plants and often combined with other methods.

James H. Miller, USDA Forest Service, Bugwood.org

Herbicide - Cut Stump



Effective on most woody weeds.

James H. Miller, USDA Forest Service, Bugwood.org

Herbicide - Basal Bark



Effective on some woody weeds, but not allowed in some settings.

David R. Jackson, Penn State Extension

Silver maple

Acer saccharinum

Deciduous tree to 100 feet

Introduced from the eastern US and occasionally found in riparian areas.

Similar to native and non-native *Acer* species



Horse chestnut

Aesculus hippocastanum

Deciduous tree to 120 feet

Introduced from Europe and occasionally found in forest edges, roadsides, and wastelots.



Herbicide - Backpack



Effective on many shrubs and young trees.

S. Leininger, Clackamas Soil and Water Conservation District

Cultural - Goats



Effective on some weeds. May browse desirable plants as well.

Scott Bauer, USDA Agricultural Research Service, Bugwood.org

Biological - Insects



Effective against some weeds and can help reduce rates of spread and infestation.

S. Leininger, Clackamas Soil and Water Conservation District

Tree-of-heaven

Ailanthus altissima

Noxious weed

Deciduous tree to 85 feet

Introduced from Europe and **invasive** in wastelots, roadsides, and urban areas.



European white birch

Betula pendula

Deciduous tree to 100 feet

Introduced from Europe and **invasive** in forest edges, fields, riparian areas, and wetlands.

Similar to the less common and regionally native *Betula papyrifera*



English hawthorn

Crataegus monogyna

Deciduous tree to 30 feet
Introduced from Europe and **invasive** in forest edges, thickets, woodlands, and fields.
Similar to native and non-native *Crataegus* species
Hybridizes with the native *C. gaylussacia*



English holly

Ilex aquifolium

Evergreen tree to 65 feet
Introduced from Europe and **invasive** in forests, fields, roadsides, and forest edges.
Saplings somewhat similar to the native *Mahonia aquifolium*



Cherry plum

Prunus cerasifera

Deciduous tree to 30 feet
Introduced from Eurasia and **invasive** in thickets, woodlands, and forest edges.
Similar to native and non-native *Prunus* species
Bronze and green leaf varieties present.



European plum

Prunus domestica

Deciduous tree to 30 feet
Introduced from Europe and commonly found in forest edges, riparian areas, and roadsides.
Similar to the native and non-native *Prunus* species



English walnut

Juglans regia

Deciduous tree to 80 feet
Introduced from Asia and occasionally found in thickets and forest edges.
Similar to the non-native *Juglans nigra*



Cultivated apple

Malus pumila

Deciduous tree to 30 feet
Introduced from Asia and occasionally found in thickets, forest edges, fields, and roadsides.
Similar to native and non-native *Malus* species



English laurel

Prunus laurocerasus

Evergreen tree or large shrub to 30 feet
Introduced from Europe and **invasive** in forests, woodlands, and forest edges.
Similar to the non-native *Prunus lusitanica*



Portugal laurel

Prunus lusitanica

Evergreen tree to 40 feet
Introduced from Europe and **invasive** in forests, roadsides, thickets, and forest edges.
Similar to the non-native *Prunus laurocerasus*



Empress tree

Paulownia tomentosa

Deciduous tree to 50 feet
Introduced from Eurasia and **invasive** in wastelots, roadsides, and disturbed areas.



Sweet cherry

Prunus avium

Deciduous tree to 120 feet
Introduced from Eurasia and **invasive** in forests, thickets, fields, woodlands, and disturbed forests.
Similar to native and non-native *Prunus* species



Common pear

Pyrus communis

Deciduous tree to 30 feet
Introduced from Europe and occasionally found in roadsides, thickets, fields, and forest edges.
Similar to non-native *Malus pumila*.



English oak

Quercus robur

Deciduous tree to 130 feet
Introduced from Europe and occasionally found in forest edges, wastelots, and disturbed forests.
Similar to the native *Quercus garryana*



Red oak

Quercus rubra

Deciduous tree to 110 feet

Introduced from Europe and occasionally found in forest edges, fields, and wastelots.

Similar to the occasionally naturalizing non-native *Quercus palustris*



European mountain-ash

Sorbus aucuparia

Deciduous tree to 60 feet

Introduced from Europe and Asia and occasionally found in forests, thickets, and forest edges.

Similar to native *Sorbus* species



English elm

Ulmus procera

Deciduous tree to 130 feet

Introduced from Europe and occasionally found in forest edges, riparian areas, and roadsides.

Similar to the non-native *Ulmus americana* and *Ulmus pumila*



Black locust

Robinia psuedoacacia

Deciduous tree to 95 feet

Introduced from the eastern US and occasionally found in disturbed areas and wastelots.



American elm

Ulmus americana

Deciduous tree to 100 feet

Introduced from the eastern US and occasionally found in forest edges, riparian areas, and roadsides.

Similar to the non-native *Ulmus procera* and *Ulmus pumila*



Siberian elm

Ulmus pumila

Deciduous tree to 65 feet

Introduced from Asia and occasionally found in forest edges, riparian areas, and roadsides.

Similar to the non-native *Ulmus americana* and *Ulmus procera*



Indigo bush

Amorpha fruticosa

Noxious weed

Deciduous shrub to 12 feet

Introduced from the eastern and central US and **invasive** in riparian areas, roadsides, wastelots and fields.

Not known in Clackamas County



Common filbert

Corylus avellana

Deciduous shrub or small tree to 25 feet

Introduced from Europe and commonly found in thickets, open forests, and forest edges.

Similar to the native *Corylus cornuta*



Orange cotoneaster

Cotoneaster franchetii

Evergreen shrub to 10 feet

Introduced from China and occasionally found in thickets, open forests, fields, and riparian areas.

Similar to numerous other non-native *Cotoneaster* species



Butterfly bush

Buddleja davidii

Noxious weed

Deciduous shrub to 15 feet

Introduced from China and **invasive** in riparian areas, roadsides, rights-of-way, and wastelots.

Seedless, approved cultivars not noxious



Diels' cotoneaster

Cotoneaster dielsianus

Evergreen shrub to 10 feet

Introduced from China and occasionally found in forest edges, riparian areas, fields, and roadsides.

Similar to numerous other non-native *cotoneaster* species



Milkflower cotoneaster

Cotoneaster lacteus

Evergreen shrub to 10 feet

Introduced from Europe and occasionally found in forest edges, roadsides, and fields.

Similar to numerous other non-native *Cotoneaster* species



Simons' cotoneaster*Cotoneaster simonsii*

Deciduous shrub to 10 feet

Introduced from Europe and occasionally found in forest edges, roadsides, and fields.

Similar to numerous other non-native *Cotoneaster* species

**Noxious weed**

Deciduous shrub to 10 feet

Introduced from Europe and **invasive** in disturbed areas, forest edges, roadsides, and fields.

Similar to other non-native brooms

**European privet***Ligustrum vulgare*

Deciduous shrub to 12 feet

Introduced from Europe and commonly found in roadsides, thickets, wastelots, riparian areas, and forest areas.

**Blackthorn***Prunus spinosa*

Deciduous shrub to 15 feet

Introduced from Europe and occasionally found in roadsides, fields, thickets, and forest edges.

Similar to native and non-native *Prunus* species

**Portugese broom***Cytisus striatus***Noxious weed**

Deciduous shrub to 10 feet

Introduced from Europe and **invasive** in disturbed areas, roadsides, and fields.

Similar to other non-native brooms

Not known in Clackamas County

**Noxious weed**

Evergreen shrub to 6 feet

Introduced from Europe and **invasive** in forests, forest edges, and woodlands.

**Dog rose***Rosa canina*

Deciduous shrub to 12 feet

Introduced from Europe and occasionally found in thickets, fields, riparian areas, and forest edges.

Similar to native and non-native *Rosa* species



Regina Johnson

Multiflora rose*Rosa multiflora*

Deciduous shrub to 16 feet

Introduced from E. Asia and **invasive** in thickets, forest edges, riparian areas, and fields.

Similar to native and non-native *Rosa* species



Chris Evans, Bugwood.org

French broom*Genista monspessulana***Noxious weed**

Deciduous shrub to 10 feet

Introduced from Europe and **invasive** in disturbed areas, roadsides, and fields.

Similar to other non-native brooms

Not known in Clackamas County



Deciduous shrub to 4 feet

Introduced from Europe and occasionally found in thickets, forest edges, and streambanks.

Similar to the non-native *Hypericum calycinum*

**Sweetbrier rose***Rosa rubiginosa*

Deciduous shrub to 6 feet

Introduced from Europe and **invasive** in thickets, riparian areas, fields, and forest edges.

Similar to native and non-native *Rosa* species



Zoya Akulova/CC BY SA 3.0

Himalayan blackberry*Rubus armeniacus***Noxious weed**

Deciduous shrub to 15 feet

Introduced from Europe and **invasive** in roadsides, wastelots, fields, riparian areas, and forest edges.

Similar to other non-native *Rubus* species and the native *R. ursinus*



Pancrat/CC BY SA 3.0



Evergreen blackberry

Rubus laciniatus

Evergreen shrub to 15 feet

Introduced from Europe and **invasive** in roadsides, thickets, wastelots, fields, riparian areas, and forest edges.



Michael Wolff/CC BY-SA 3.0

European blackberry

Rubus praecox

Deciduous shrub to 15 feet

Introduced from Europe and **invasive** in roadsides, wastelots, fields, riparian areas, and forest edges.

Similar to other non-native *Rubus* species and the native *R. ursinus*.



William L. Bruckart III

Old man's beard

Clematis vitalba

Noxious weed

Deciduous vine

Introduced from the eastern and central US and **invasive** in riparian areas, roadsides, wastelots, and fields.

Similar to the native *Clematis ligusticifolia*



English ivy

Hedera helix

Noxious weed

Evergreen vine

Introduced from Europe and **invasive** in forests, riparian areas, and forest edges.

Very similar to the non-native *Hedera hibernica*



Spanish broom

Spartium junceum

Noxious weed

Deciduous shrub to 15 feet

Introduced from Europe and **invasive** in forest edges, roadsides, and fields.

Not known in Clackamas County



Saltcedar

Tamarix ramosissima

Noxious weed

Deciduous shrub to 20 feet

Introduced from the Middle East and **invasive** in riparian areas.

Not known in Clackamas County



Irish ivy

Hedera hibernica

Noxious weed

Evergreen vine

Introduced from Europe and **invasive** in forests, riparian areas, and forest edges.

Very similar to the non-native *Hedera helix*



Kudzu

Pueraria montana var. lobata

Noxious weed

Deciduous vine

Introduced from Asia and **invasive**

Eradicated, not currently known in Clackamas County



Gorse

Ulex europaeus

Noxious weed

Deciduous shrub to 15 feet

Introduced from Europe and **invasive** in thickets, fields, and forest edges.



Guelder rose

Viburnum opulus var. opulus

Deciduous shrub to 12 feet

Introduced from Europe and occasionally found in thickets, woodlands, forest edges, and riparian forests.

Similar to native *Viburnum edule*



Periwinkle

Vinca major & Vinca minor

Evergreen vine

Introduced from Europe and **invasive** in forests, riparian areas, and forest edges.

Similar to each other



Vinca major
Vinca minor

European Grape

Vitis vinifera

Deciduous vine

Introduced from Europe and occasionally found in roadsides, riparian areas, and forest edges.

Similar to other non-native *Vitis* species



Additional Resources

Identification Resources

Introductory

WeedWise weed identification web post - <https://bit.ly/2OPuqXZ>

Field Guide to Priority Invasive Weeds in Clackamas County, S. Leininger - <https://bit.ly/2O3jnp0>

Plants of the Pacific Northwest Coast, J. Pojar & A. MacKinnon

Trees & Shrubs of the Pacific Northwest, M. Turner & E. Kuhlmann

Field Guide to Weeds of the Willamette Valley, L. Wisheart, T. Kaye, & M. Kirkland - <https://bit.ly/2MaUV9j>

Northwest Weeds: The Ugly and Beautiful Villains of Fields, Gardens, and Roadsides, R. Taylor

Advanced

Flora of Oregon, S. Meyers, K. Mitchell, & L. Hardison, Eds. - <http://www.oregonflora.org>

Flora of the Pacific Northwest: An Illustrated Manual C.L. Hitchcock and A. Cronquist, 2nd Edition, D. Giblin, B. Legler, P.Zika, & R. Olmstead, Eds. - <http://www.pnwherbaria.org/florapnw.php>

Urbanizing Flora of Portland, Oregon, 1806-2008 J. Christy, PI Gaddis, A. Kimpo, V. Martalla, & N. Christy - <http://bit.ly/2IJWdLm>

Oregon Flora Project Photo Gallery - <http://www.oregonflora.org/gallery.php>

University of Washington Herbarium Images Collection - <https://bit.ly/2z7JC70>

Weed Management Resources

WeedWise weed profiles and Best management Practices (BMP) documents - <https://weedwise.conservationsdistrict.org>

WeedWise equipment library - <https://bit.ly/2yzY4pY>

Oregon Department of Agriculture noxious weed profiles - <http://bit.ly/2gXGT8H>

Pacific Northwest Weed Management Handbook [online], E. Peachey, Ed. - <https://pnwhandbooks.org/weed>

4 County Cooperative Weed Management Area fact sheets and BMPs - <https://4countycwma.org>

King County Best Management Practices - <http://bit.ly/2A6rqvo>

Weed Control in Natural Areas in the Western United States, J. DiTomaso & G. Kyser, et al. - <https://bit.ly/2D2JXxm>

Biological Control of Invasive Plants in the United States, E. Coombs, J. Clark, G. Piper, & A. Confrancesco, Jr., Eds.

Woody Weed Invaders in Gardens and Landscapes, J. DiTomaso & G. Kyser - <https://bit.ly/2JjnIcQ>

Reporting Resources

Oregon Invasive Species Hotline, <https://oregoninvasiveshotline.org/> and 1-866-INVADER

Clackamas SWCD WeedWise Program, <https://weedwise.conservationsdistrict.org/contact> or 503-210-6000

Oregon Department of Agriculture County Weed Contacts - <https://bit.ly/2PIAAid>

Document last revised January 2019



Index

Trees

Norway maple (*Acer platanoides*)

sycamore maple (*Acer pseudoplatanus*)

silver maple (*Acer saccharinum*)

horse chestnut (*Aesculus hippocastanum*)

tree-of-heaven (*Ailanthus altissima*)

European white birch (*Betula pendula*)

English holly (*Ilex aquifolium*)

English walnut (*Juglans regia*)

cultivated apple (*Malus pumila*)

empress tree (*Paulownia tomentosa*)

sweet cherry (*Prunus avium*)

cherry plum (*Prunus cerasifera*)

European plum (*Prunus domestica*)

English laurel (*Prunus laurocerasus*)

Portugal laurel (*Prunus lusitanica*)

common pear (*Pyrus communis*)

English oak (*Quercus robur*)

red oak (*Quercus rubra*)

black locust (*Robinia pseudoacacia*)

European mountain-ash (*Sorbus aucuparia*)

American elm (*Ulmus americana*)

Siberian elm (*Ulmus pumila*)

English elm (*Ulmus procera*)

Shrubs

indigo bush (*Amorpha fruticosa*)

butterfly bush (*Buddleja davidii*)

common filbert (*Corylus avellana*)

Diels' cotoneaster (*Cotoneaster dielsianus*)

orange cotoneaster (*Cotoneaster franchetii*)

milkflower cotoneaster (*Cotoneaster lacteus*)

Simons' cotoneaster (*Cotoneaster simonsii*)

Scotch broom (*Cytisus scoparius*)

Portugese broom (*Cytisus striatus*)

spurge laurel (*Daphne laureola*)

French broom (*Genista monspessulana*)

tutsan (*Hypericum androsaemum*)

European privet (*Ligustrum vulgare*)

blackthorn (*Prunus spinosa*)

dog rose (*Rosa canina*)

multiflora rose (*Rosa multiflora*)

sweetbrier rose (*Rosa rubiginosa*)

Himalayan blackberry (*Rubus armeniacus*)

evergreen blackberry (*Rubus laciniatus*)

Himalayan blackberry (*Rubus praecox*)

Spanish broom (*Spartium junceum*)

saltcedar (*Tamarix ramosissima*)

gorse (*Ulex europaeus*)

guelder rose (*Viburnum opulus* var. *opulus*)

Vines

old man's beard (*Clematis vitalba*)

English ivy (*Hedera helix*)

Irish ivy (*Hedera hibernica*)

kudzu (*Pueraria montana* var. *lobata*)

periwinkle (*Vinca major*, *Vinca minor*)

European grape (*Vitis vinifera*)



WeedWise
A conservation program of the Clackamas SWCD



CLACKAMAS SOIL AND WATER
**CONSERVATION
DISTRICT**
Good dirt. Clean water.