



# Colorado MASTER GARDENER

## Pruning Evergreens

no. 7.827

by D. Whiting, J. Boussetot, R. Cox, and C. O'Meara'

### Outline. . .

Pruning Evergreen Trees, page 1

Removing a Large Branch,  
page 1

Spruce, Fir and Douglas-Fir,  
page 2

Pine, page 2

Juniper and Arborvitae, page 3

Additional Information, page 4

Most types of evergreen trees and shrubs need little to no pruning. Pruning may make the new growth bushier, but will not effectively control size. Select plants based on mature size to minimize pruning needs. If frequent pruning is necessary to keep plant growth in bounds and prevent interference with a walk, driveway or view, consider replacing the plant. Evergreen trees and shrubs are pruned according to species growth characteristics.

### Pruning Evergreen Trees

On evergreen trees, avoid pruning the central leader (trunk). This results in the development of multiple leaders that are prone to wind and snow damage. If the central leader is killed back, select one branch to become the new leader and remove potential competing leaders. Never allow co-dominant trunks (trunks of similar size) to develop. If multiple trunks begin to develop, select one and remove others.

For structural integrity on evergreen trees, all side branches should be less than half the diameter of the adjacent trunk (less than one-third is preferred). If the diameter of a side branch is too large, prune back part of the needled area to slow growth or remove the branch entirely back to the trunk. For additional details on training of young evergreen trees, refer to fact sheet 7.822, *Structural Training: Trees with a Central Leader*.

### Removing a Large Branch

New needles will not grow from branches without needles. When a side branch is removed on an evergreen, cut back to the trunk just outside of the **branch collar** (the enlarged connecting area on the trunk around the limb). Do not cut into or otherwise injure the branch collar. Do not make flush cuts. Remove the branch in a three cut method.

- Cut 1. Coming out 12 to 15 inches from the trunk, make an undercut a third to half way through the branch.
- Cut 2. Moving a couple inches out past the first cut, make the second cut from the top, removing the branch. This double cut method prevents the weight of the branch from tearing the branch below the branch collar.
- Cut 3. Make the third and final cut just outside the branch bark collar. Take extra caution to not cut into or otherwise injure the branch bark collar.

For additional information on pruning cuts, refer to fact sheet 7.821, *Pruning Cuts*.



*Putting Knowledge to Work*

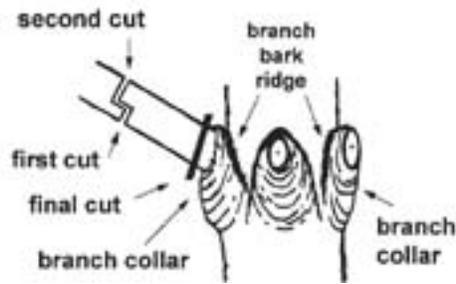


Figure 1. On evergreen trees, remove large branches back to the trunk in a three cut method. Make the final cut just outside the branch collar. Needles only grow from the growing tips out and will not develop on the interior branch wood without needles.

## Spruce, Fir, and Douglas-Fir

Spruce, fir, and Douglas-fir generally need little to no pruning.

On young trees, pruning is useful in situations where bushier new growth is desired. Since these species produce some side buds, branch tips can be removed encouraging side bud growth. Prune late winter or early spring.

Spruce, fir and Douglas-fir that are overgrowing their space are somewhat tolerant of being pruned back as long as it is not pruned back past the needles. However, with constant pruning, the branches may begin to show needle browning and dieback. In situations where the branch must be pruned back past the needles, remove it back to the trunk.

In landscape design small to mid-size evergreen trees, with their pyramidal form, generally look best with their lowest branches allowed to drape to near ground level.

On large trees, primary growth occurs at the top with minimal growth at the lower levels. Due to slow growth, pruning of the lower branches may give a “pruned look” for a long time. On large trees, limb-up lower branches only if they are in the way.

Very slow growing species, like the Dwarf Alberta Spruce and Nest Spruce, are rather intolerant of pruning.



Figure 2. Pruning spruce and fir back to a side bud or side branch will encourage growth of side branches.

## Pine

Pines generally need little to no pruning.

On young plants, if a more compact new growth is desired, pinching may be helpful. Using the fingers, snap off one-third of the new growing tips while in the candle stage (in the spring when young needles are in a tight cluster). Avoid using pruners or a knife, since it will cut the remaining needles, giving a brown tip appearance.

Since pines produce few side buds, they are intolerant of more extensive pruning. If the terminal bud on a branch is removed, growth on that shoot is stopped with additional growth occurring only from existing side branches. Do not shear pines.

Like other evergreen trees, small to mid-size pine trees look best (from the landscape design perspective) with their lowest branches allowed to drape down near ground level. When a lower branch has to be pruned back for space issues, remove it back to the trunk.

## Juniper and Arborvitae

Junipers and arborvitae generally need little to no pruning.

They may be pruned anytime except during sub-zero weather. The best time is early spring prior to new growth.

The best pruning method is to cut individual branches back to an upward growing side branch. This method of pruning is time consuming, but keeps the plant looking young and natural.



Figure 3. On pines, for bushier new growth pinch growing tips by snapping off 1/3 of the “candle” tips with fingers. Since pines produce few side buds, they are intolerant of more extensive pruning.

While shearing is quick and easy, it is not recommended, especially after mid-summer. Shearing creates a dense growth of foliage on the plant’s exterior. This in turn shades out the interior growth and the plant becomes a thin shell of foliage. Frequently sheared plants are more prone to show needle browning and dieback from winter cold and drying winds.



Figure 4. Pruning junipers and arborvitae back to a side shoot hides the pruning cut.

Any pruning that tapers in towards the bottom of the plant will lead to thinning of the lower branches due to shading. To keep the bottom full, the base of the shrub needs to be wider than the top portion.

It’s common to see junipers and arborvitae that have overgrown their space. Since new growth comes ONLY from the growing tips, branches cannot be pruned back into wood without needles. If the shrub is pruned back to bare wood, it will have a permanent bare spot.

For shrubs that are getting too large, it is better to prune them back as they begin to overgrow the site. Pruning back of severely overgrown shrubs generally gets into wood without needles. Consider replacing severely overgrown plants with smaller cultivars or other species.

Junipers and arborvitae growing in the shade are rather intolerant of pruning due to slow growth rates.

## Additional Information

Colorado Master Gardener training is made possible, in part, by a grant from the Colorado Garden Show, Inc.

<sup>1</sup>D. Whiting, Colorado State University, Cooperative Extension consumer horticulture specialist and Colorado Master Gardener coordinator; J. Boussetot, Extension horticulture agent, Douglas County; R. Cox, Extension horticulture agent, Jefferson County; and C. O’Meara; Extension horticulture assistant, Boulder County.

Colorado State University, U.S. Department of Agriculture and Colorado counties cooperating. Cooperative Extension programs are available to all without discrimination. No endorsement of products mentioned is intended nor is criticism implied of products not mentioned.

### Fact Sheets on Pruning

- 7.820, *Tree Growth and Decay*
- 7.821, *Pruning Cuts*
- 7.822, *Structural Training: Trees with a Central Leader*
- 7.823, *Structural Training: Trees with Multiple Scaffold Branches*
- 7.824, *Structural Training of Trees – Pruning Flow Chart*
- 7.825, *Pruning Mature Shade Trees*
- 7.826, *Pruning Flowering Shrubs*
- 7.827, *Pruning Evergreens*

### Books

Edward F Gilman. *An Illustrated Guide to Pruning*, Second Edition. Delmar. 2002

### Web

<http://hort.ifas.ufl.edu/woody/pruning/>