



**PennState Extension**

# Penn State Master Gardeners of Allegheny County

- Master Gardener volunteers support Penn State Extension's educational programs in consumer horticulture.



# Penn State Master Gardeners of Allegheny County

## Master Gardener



PennState Extension

### Master Gardener Volunteer Application

Please print clearly

Date \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Telephone (**check best**) (home) \_\_\_\_\_ (cell) \_\_\_\_\_

E-mail address \_\_\_\_\_

**gbb5154@psu.edu**



PennState Extension

# Spirits in the Garden

February 20<sup>th</sup> at 6:30!

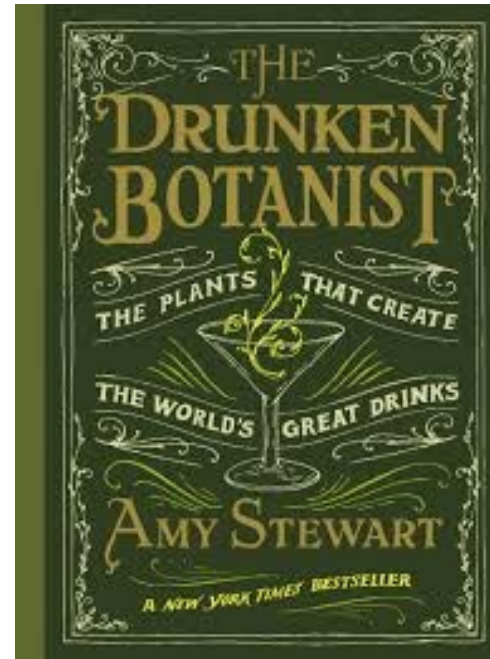


[extension.psu.edu/spirits-in-the-garden](https://extension.psu.edu/spirits-in-the-garden)

# Spirits in the Garden



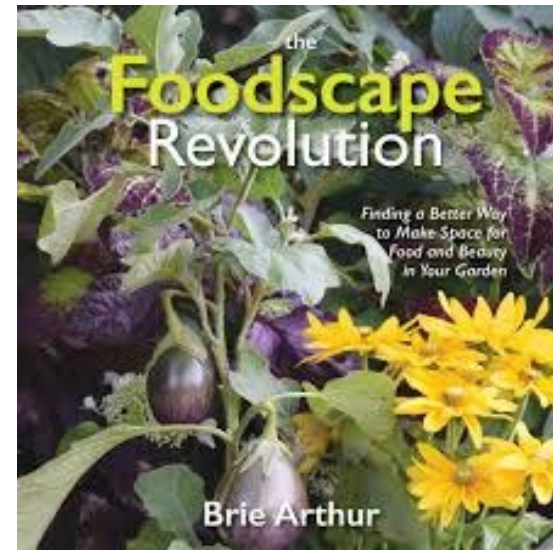
Amy Stewart



# Spirits in the Garden



Brie Arthur





# Pruning



**PennState Extension**

# Why?

- Health of Plant
- Improve Vigor
- Control Shape
- Safety





# Health of Plant

- Remove dead or dying branches
- Mechanical pest management



# Improve Vigor

- Flowering
- Fruiting
- Light penetration



# Control Shape

- Height
- Width
- Direction
- Design

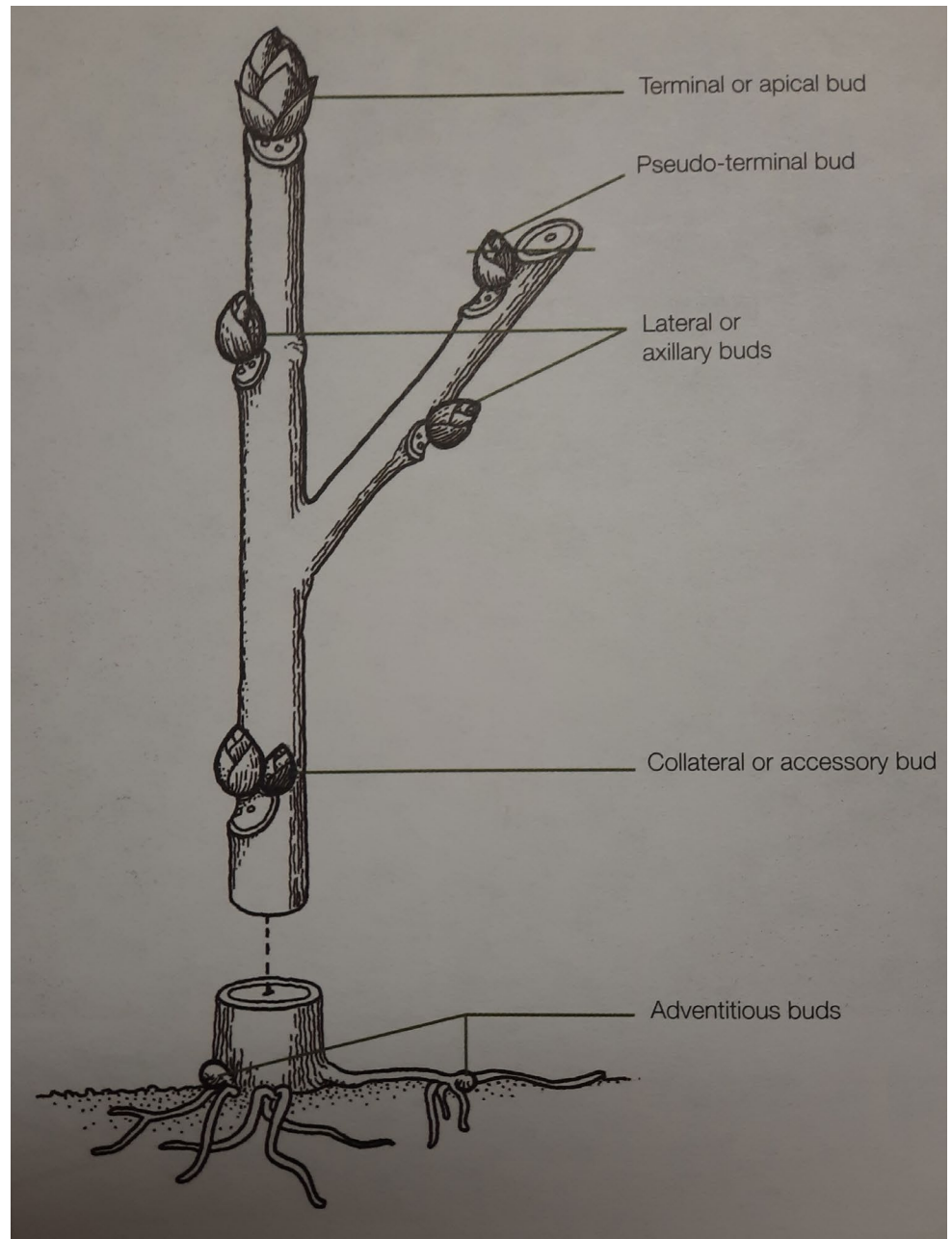


# Safety



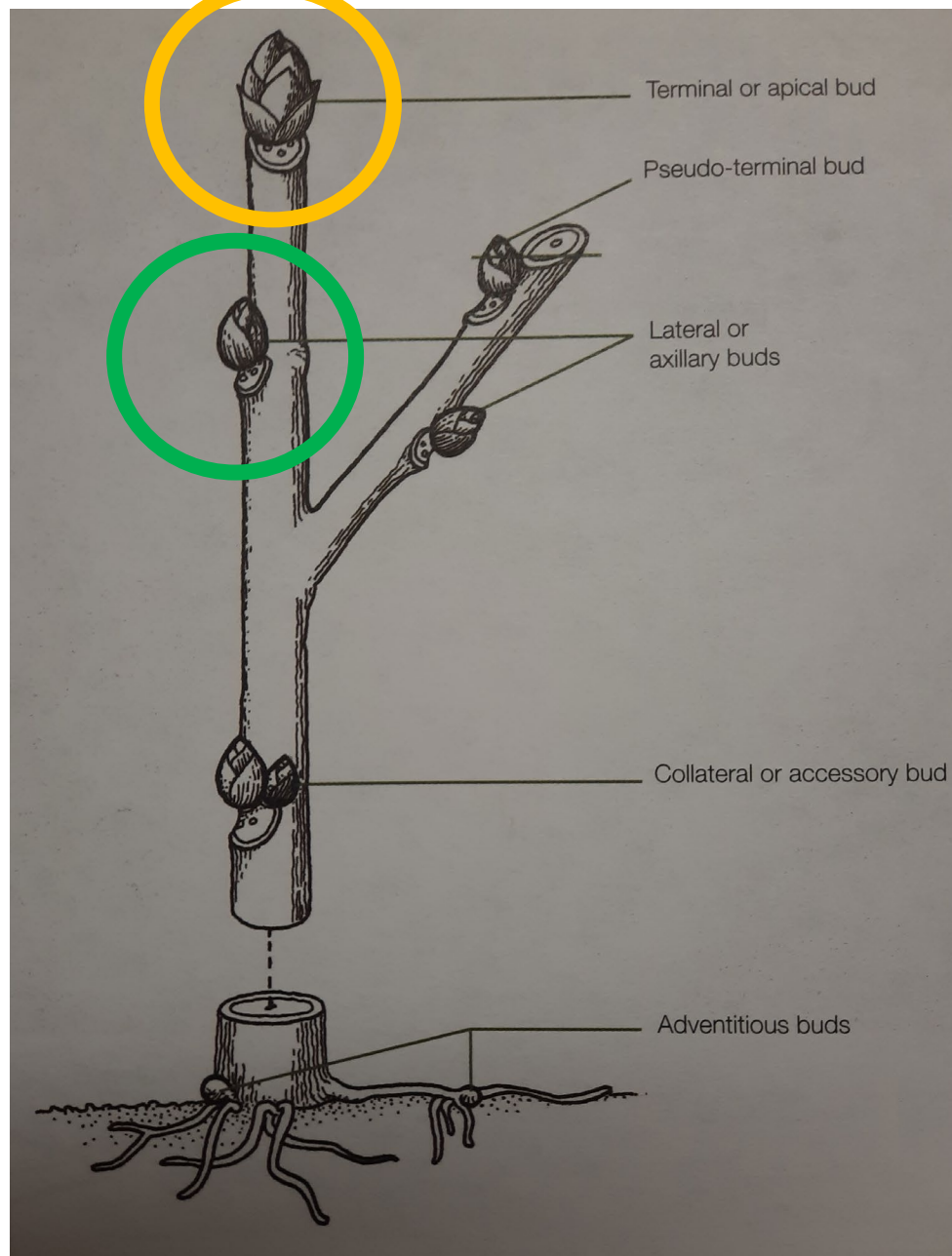
# How?

- Bud removal
- Hormone Control
- Proper Cuts

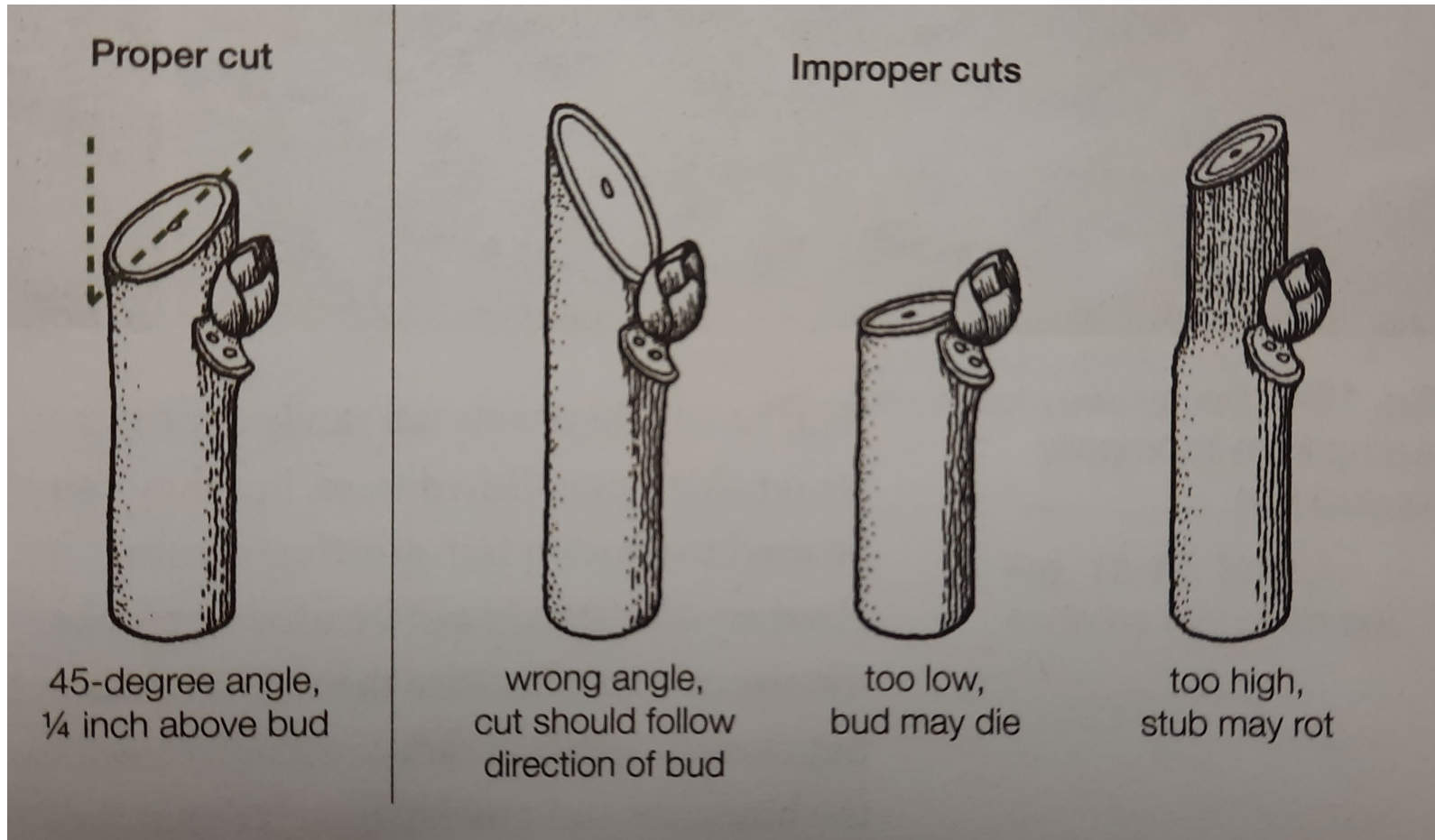


# Auxin

**The plant hormone responsible for growth suppression in buds and responsible for orderly structure of branches.**



# Proper Cuts



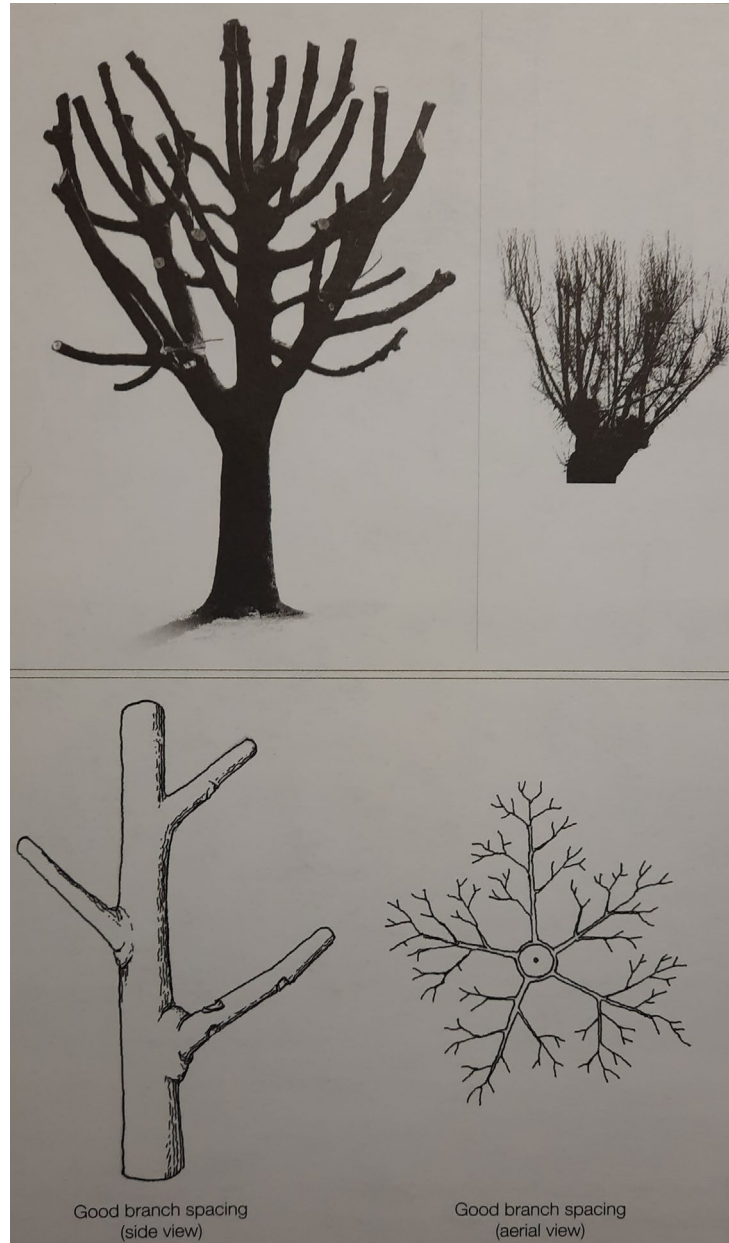


# Types of Cuts

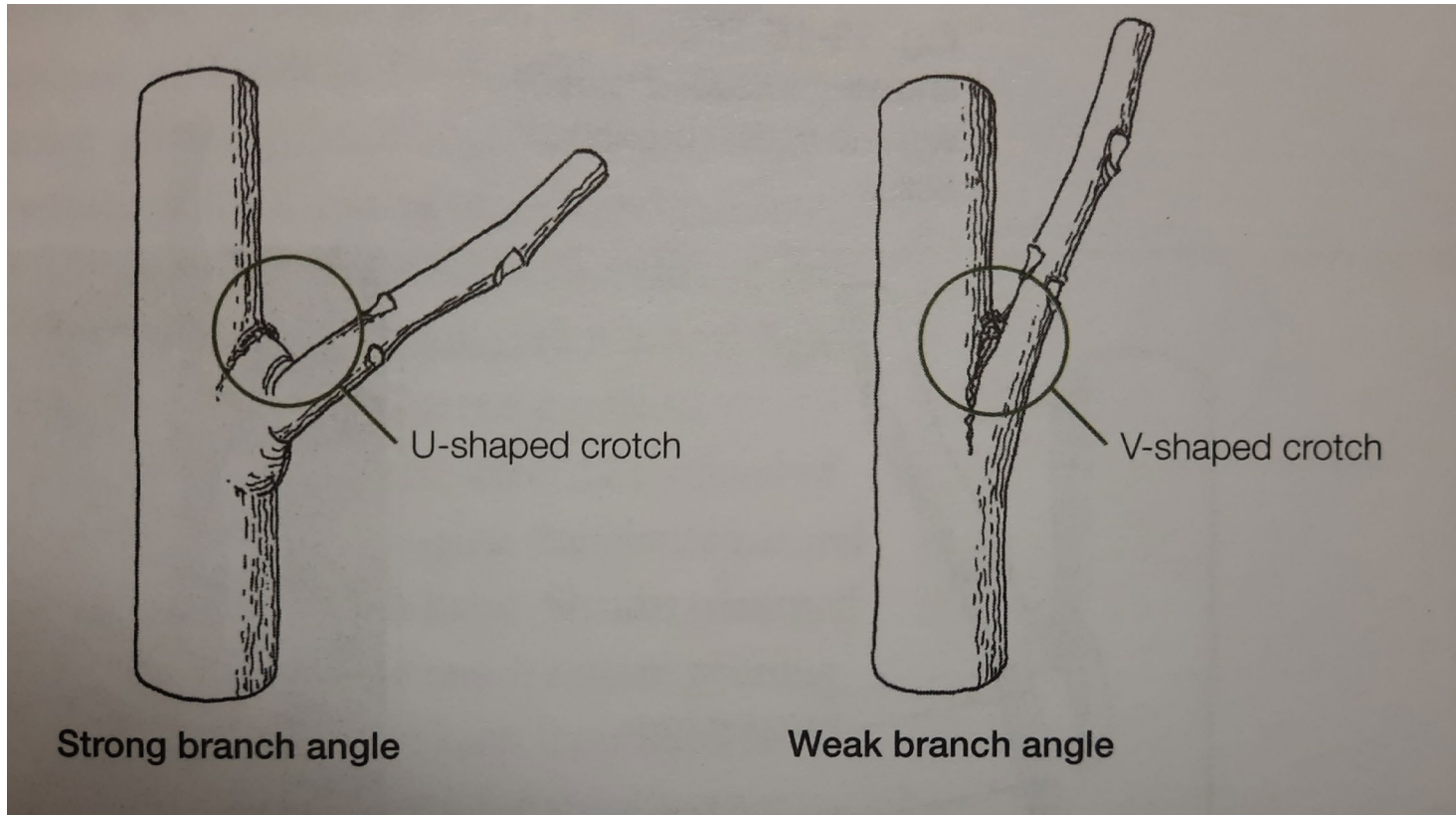
- Heading Cut – An internodal cut to a lateral bud or between growing points reserved typically for young tree training, shrubs and hedges.
- Reduction Cut – A cut made to reduce a branch back to a smaller one that is also large enough to assume terminal growth.
- Branch Removal – Cuts made to remove entire branches from trunk.



# Tree Training



# Branch Angle

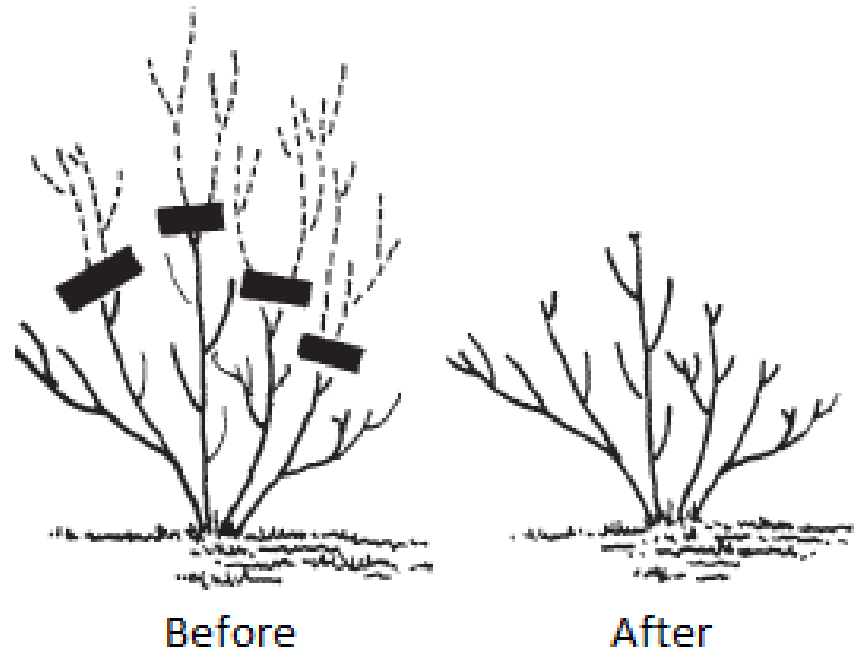


# When

- Generally, **deciduous** and **evergreen** plants should be pruned in the late winter or early spring, before growth starts.

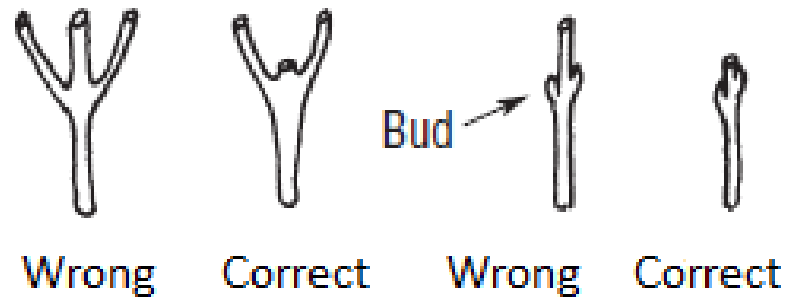


# Hedge and Shrub Pruning



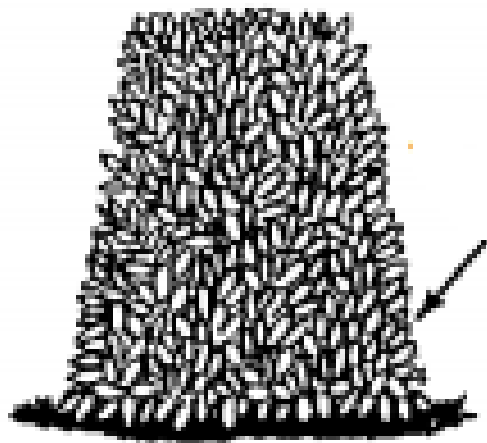
Heading Back

# Hedge and Shrub Pruning

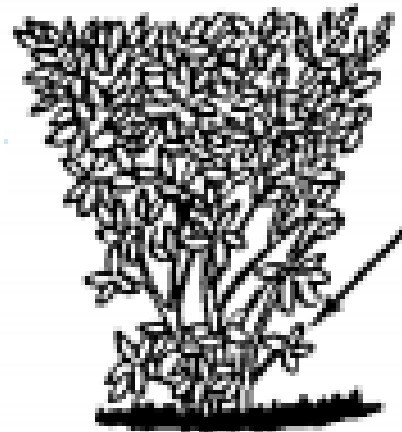


Heading cuts

# Hedge and Shrub Pruning



Gets sun and rain



Shaded, weak growth



# Root Pruning



# Root Pruning



# Root Pruning





# PennState Extension

This publication is available in alternative media on request.

The University is committed to equal access to programs, facilities, admission, and employment for all persons. It is the policy of the University to maintain an environment free of harassment and free of discrimination against any person because of age, race, color, ancestry, national origin, religion, creed, service in the uniformed services (as defined in state and federal law), veteran status, sex, sexual orientation, marital or family status, pregnancy, pregnancy-related conditions, physical or mental disability, gender, perceived gender, gender identity, genetic information, or political ideas. Discriminatory conduct and harassment, as well as sexual misconduct and relationship violence, violates the dignity of individuals, impedes the realization of the University's educational mission, and will not be tolerated. Direct all inquiries regarding the nondiscrimination policy to Dr. Kenneth Lehrman III, Vice Provost for Affirmative Action, Affirmative Action Office, The Pennsylvania State University, 328 Boucke Building, University Park, PA 16802-5901; Email: [kfl2@psu.edu](mailto:kfl2@psu.edu); Tel 814-863-0471.

# Illustration References

- Pruning, UGA/CAES Extension, flickr.com CC 2.0
- <https://extension.umd.edu/hgic/topics/pruning-shrubs-and-hedges>
- <https://extension.unh.edu/resource/planting-and-mulching-trees-and-shrubs-fact-sheet>
- <https://hort.ifas.ufl.edu/woody/root-prune-examples.shtml>
- <https://extension.umd.edu/hgic/topics/girdling-roots>