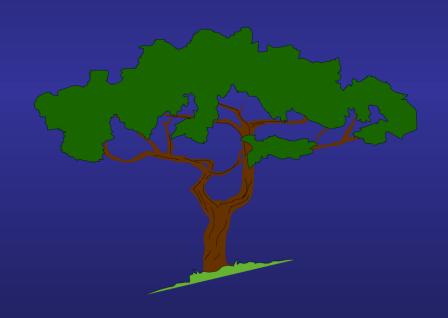
PRUNING FRUIT TREES

Marlin Bates Horticulture Specialist University of Missouri Extension

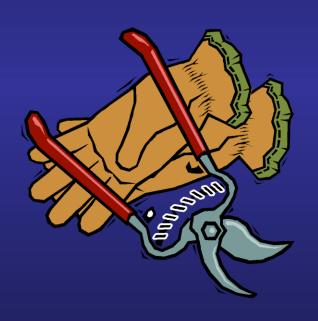
PRUNING

A science and an art...



PRUNING

The judicious removal of shoots or branches of a tree to increase its economic value.



TRAINING

Developing the structural framework by spreading, weighing, tying, or pruning the limbs of a tree.

REASONS FOR TRAINING AND PRUNING

- To enhance survival after transplanting
- To develop a strong structure
- To promote flowering and fruiting

- To remove dead or diseased wood
- To direct growth and utilize space efficiently
- To rejuvenate old trees



Espalier





Pruning stimulates vegetative growth

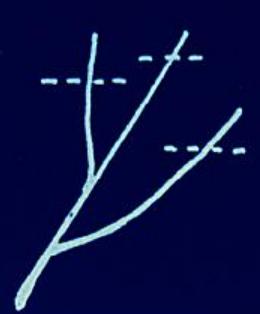


behind the cut.

Heading cuts stimulate branching



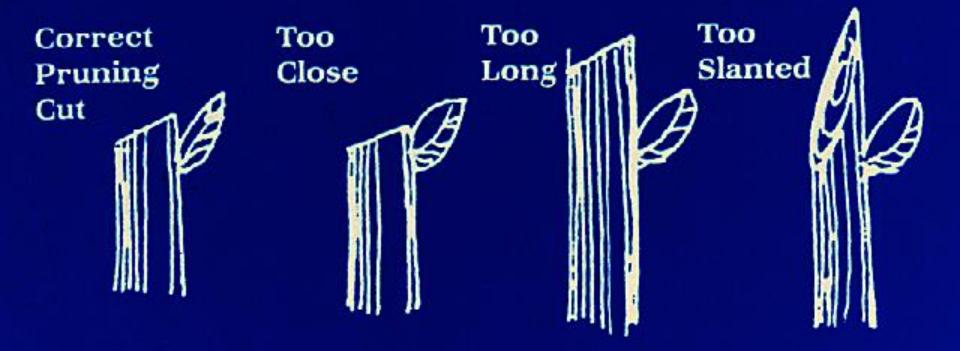
Heading Cuts



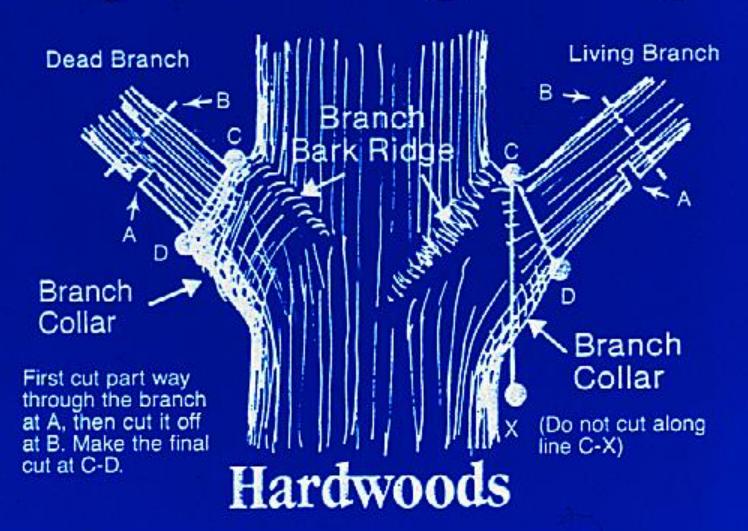
Before heading



After heading

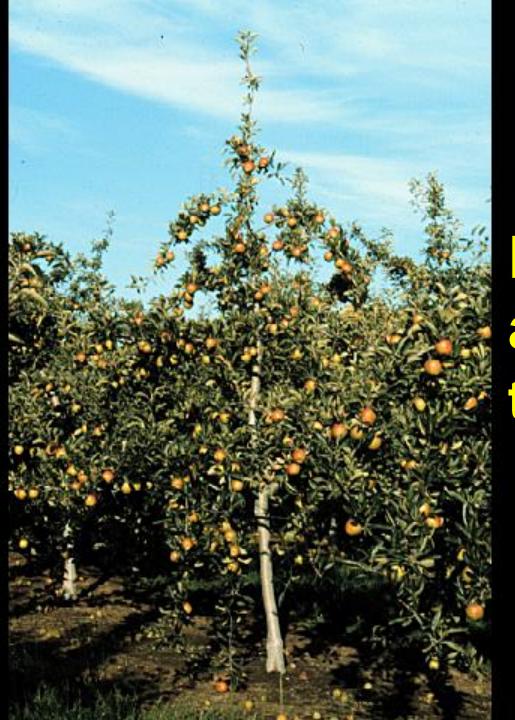


Proper Pruning Principles







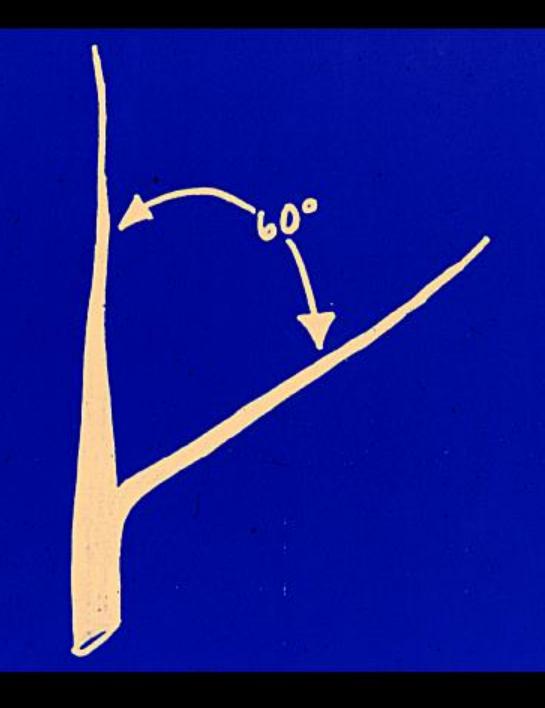


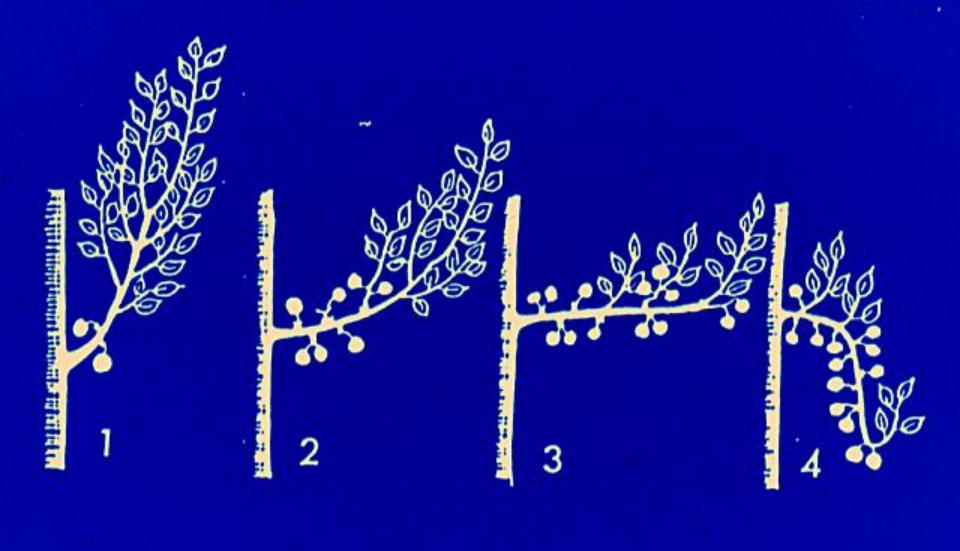
Pruning apple trees

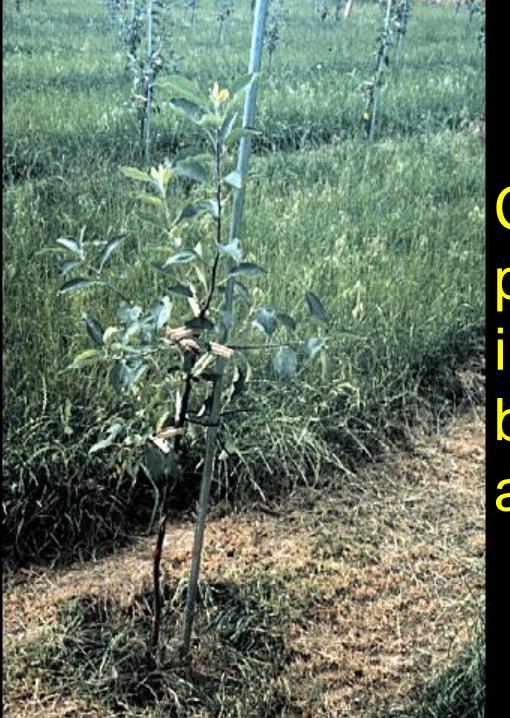
Pruning a non-bearing apple tree delays the onset of production and reduces early fruit yield.

A shoot in a vertical position grows vegetatively.

A branch in a horizontal position produces upright sucker growth.







Clothes pins to increase branch angles



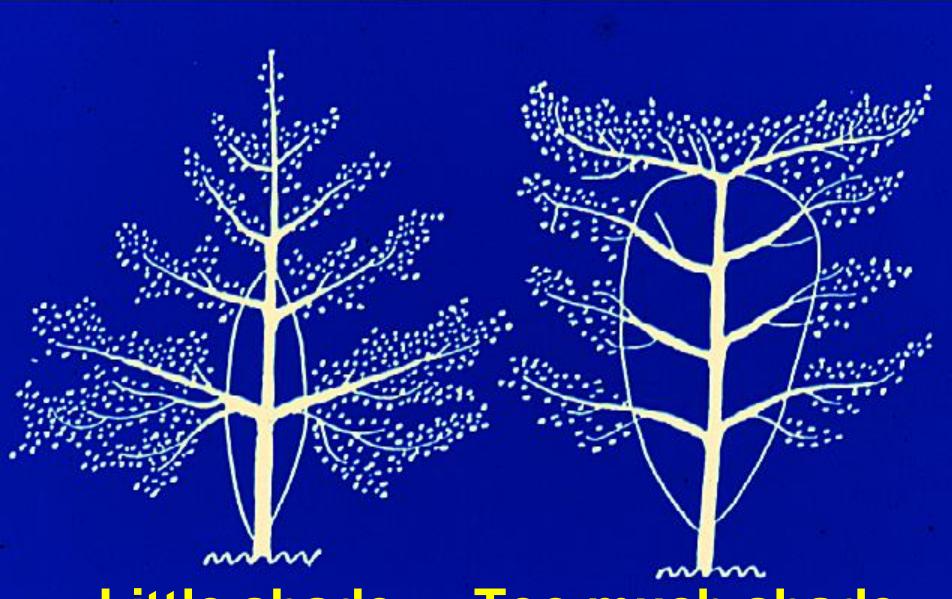




Tree weight



Hanging tree weights



Too much shade Little shade

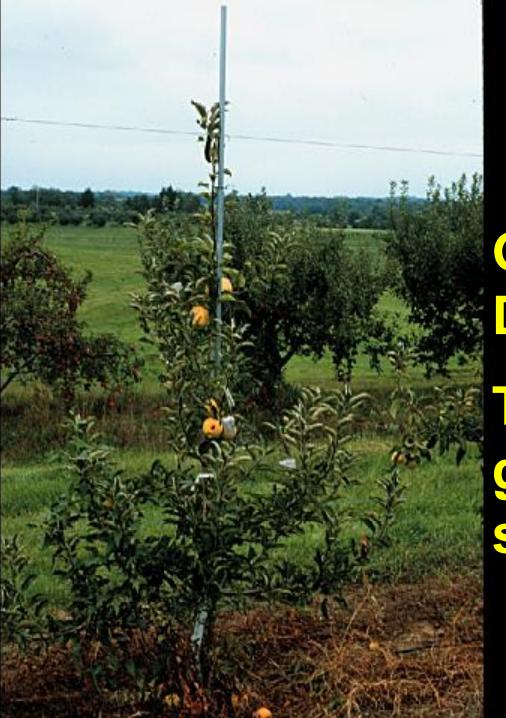
CENTRAL LEADER TRAINING



In March of the third growing season, prune lower branches to maintain the narrow pyramidal form and any shoots growing vertically.



To limit the height of the tree, the central leader can be cut back to a less vigorous lateral branch to form a new leader.



Golden Delicious

Third growing season



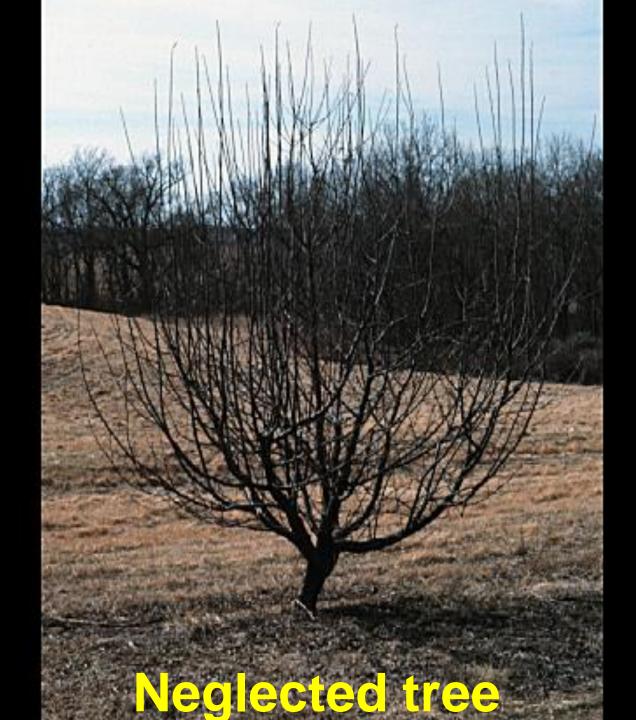


Remedial pruning for a neglected tree

MAINTENANCE PRUNING

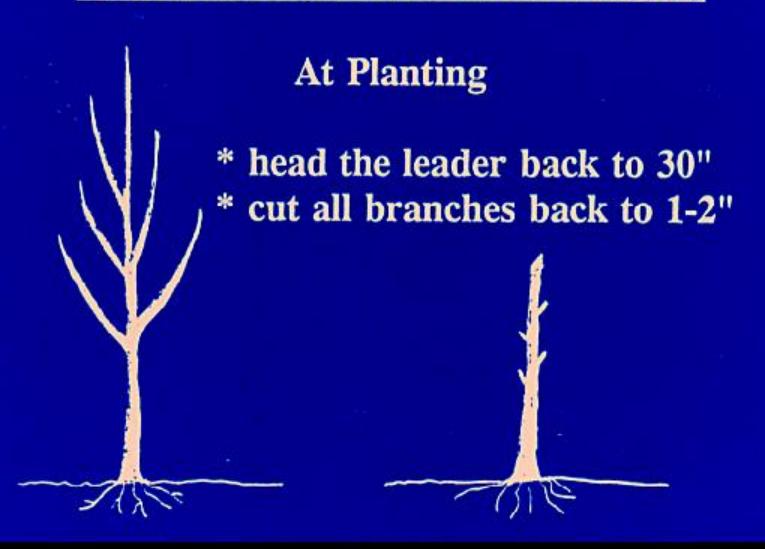
- Remove upright sucker growth
- Cut out broken or crossing branches
- Remove shoots growing back towards the center of the tree

- Thin out crowded branches that shade others
- Remove branches at narrow angles from the trunk
- Cut back scaffolds to a lateral branch to restore the narrow pyramidal shape of the tree

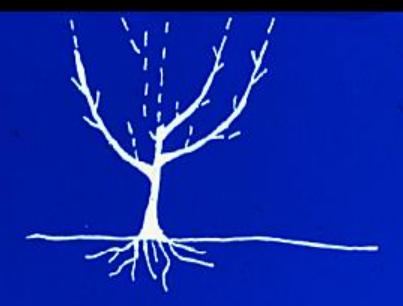




TRAINING OPEN CENTER TREES

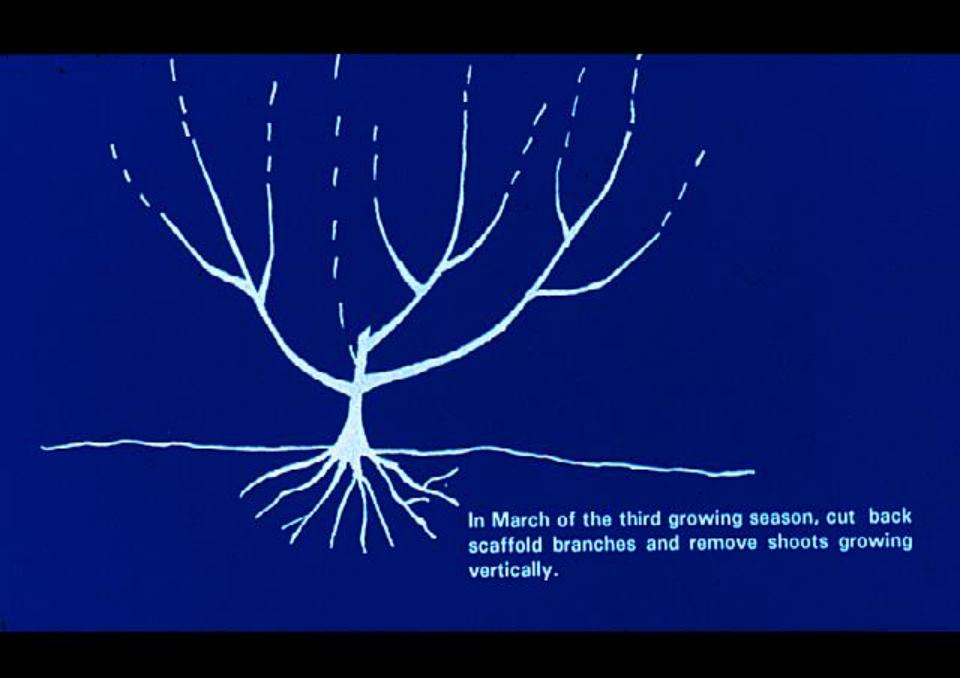


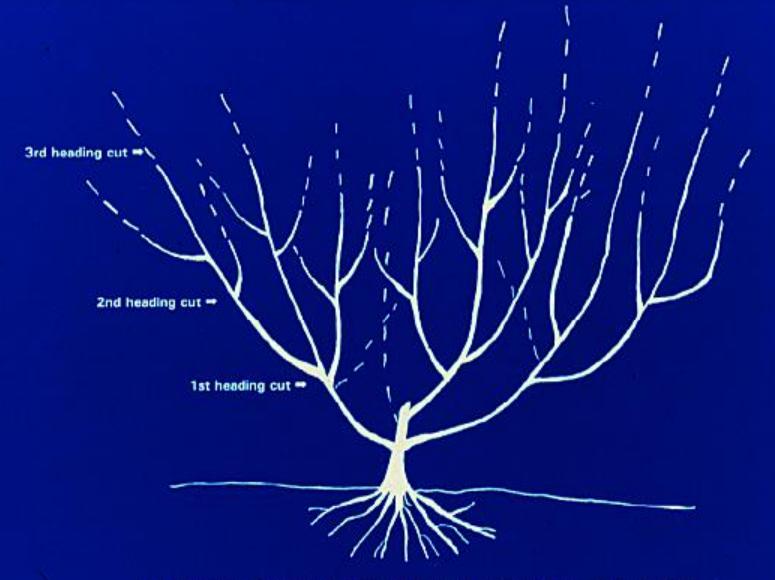




Select 3 or 4 that are evenly spaced around the trunk during the first growing season.

In March of the second growing season, cut back scaffold branches and remove shoots growing vertically.

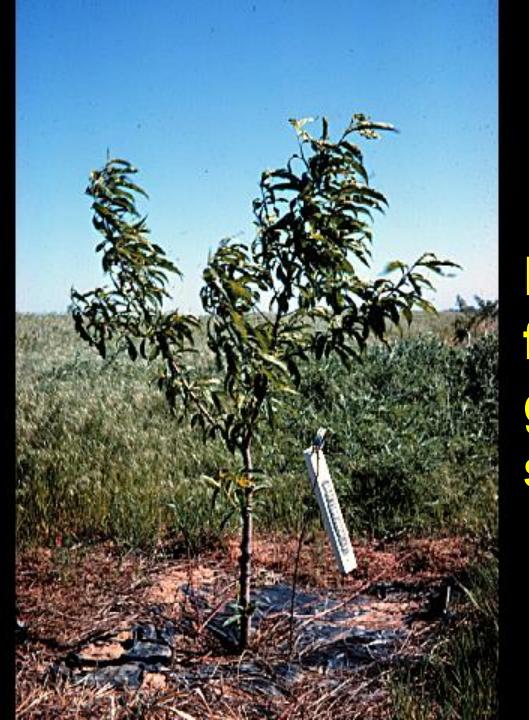




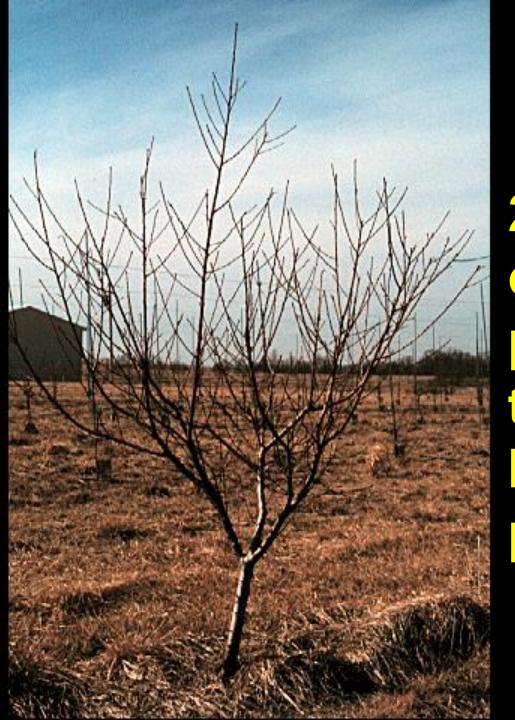
In March of the fourth growing season, cut back scaffold branches.

Remove shoots growing vertically and those growing towards the center of the tree.





Peach first growing season

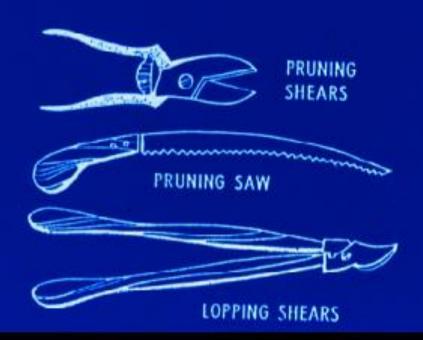


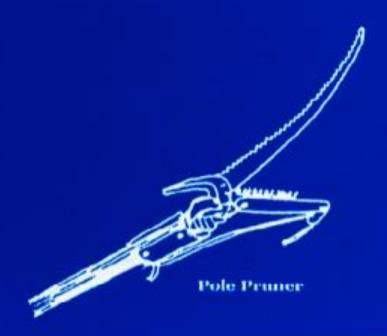
2 year old peach tree before pruning

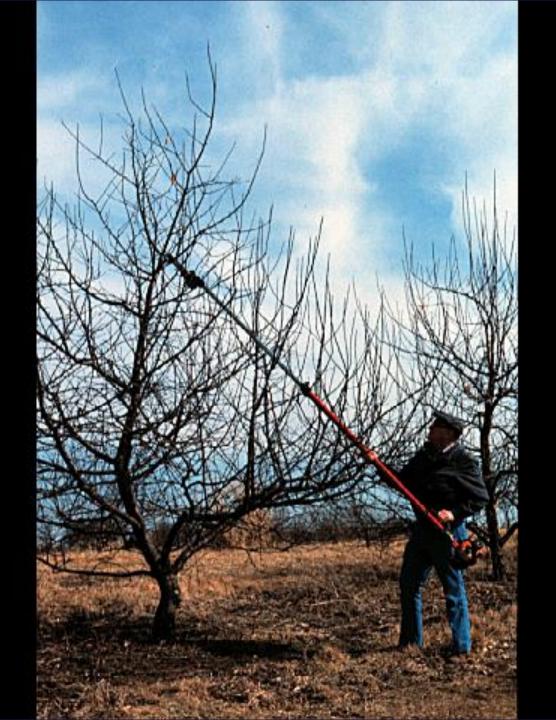




Pruning Tools









DISINFECTING PRUNING TOOLS

- Use 70% denatured alcohol; or
- 1 part bleach: 9 parts water
- Bleach is corrosive to metal so clean blades with soap and water after each use

Information taken from: PRUNING WOODY PLANTS

