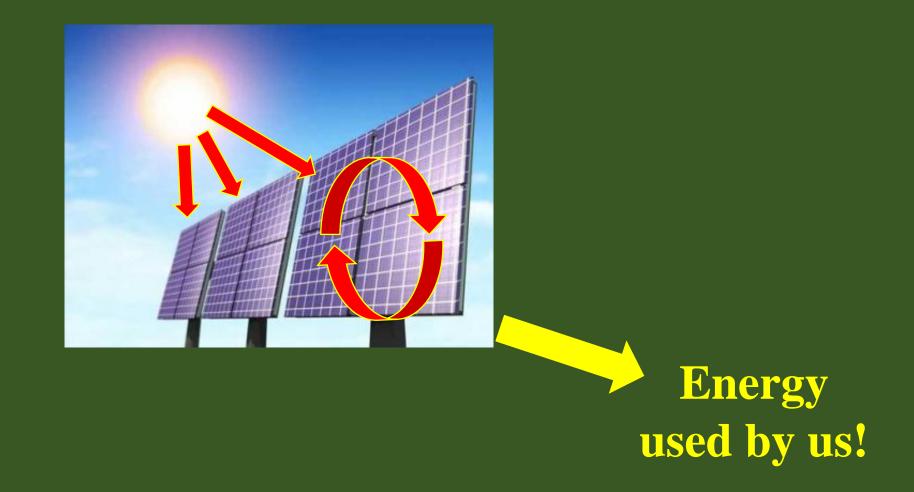
Basics of Pruning & Training

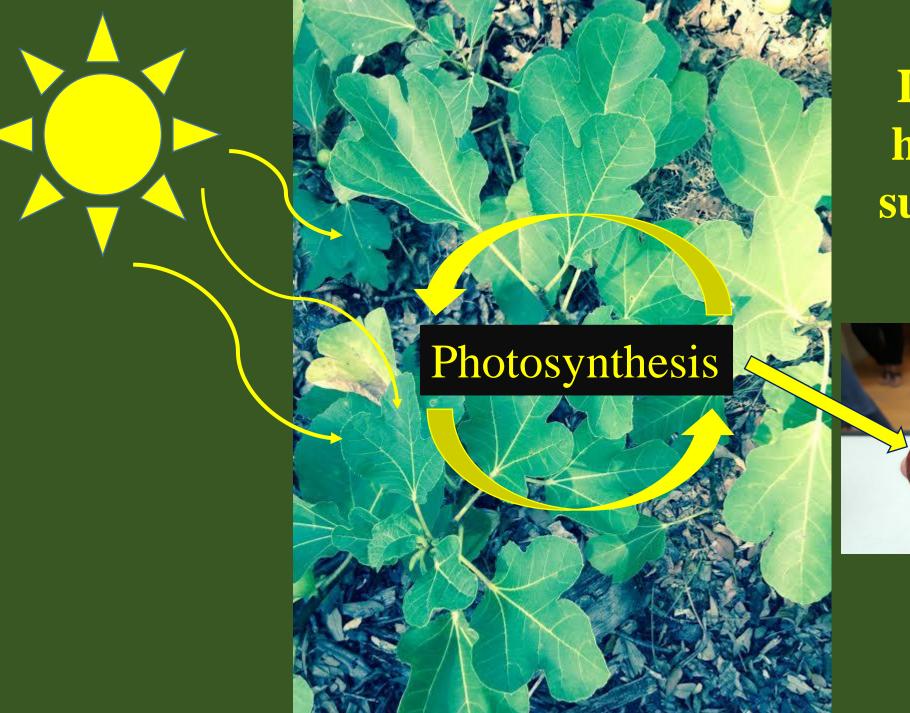
Kerry D. Heafner Area Horticulturist 704 Cypress Street West Monroe, LA 71291





Prune and train fruit trees to harvest sunlight!





Leaves harvest sunlight.





Pruning vs. Training

Pruning: removing a portion of a tree to correct or maintain structure.

Training: directing growth into a desired shape and form.

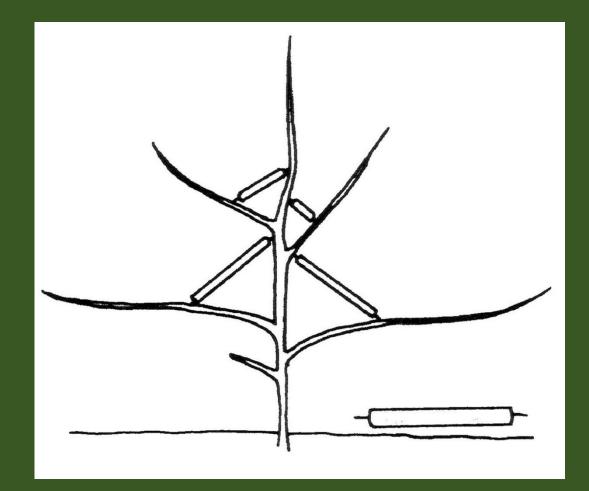
Why prune?

- To improve the overall health of the tree or shrub by removing:
 - Dead branches.
 - Decayed branches.
 - Diseased branches.
 - Damaged branches.
 - The 4 Ds.
- To promote flower/fruit production.
- To control for size and shape.
- To improve air circulation.



Why train?

- To maximize incident sunlight & good air circulation.
- To promote fruit production.
- To build tree/branch strength.



Two types of pruning cuts:

- Heading cut
 - Removes the terminal (apical) bud.
 - Promotes later branch/bud development.
 - Laterals are fruit and flower producers.
- Thinning cut
 - Removes an entire branch back to either a side shoot or the leader (central stem).

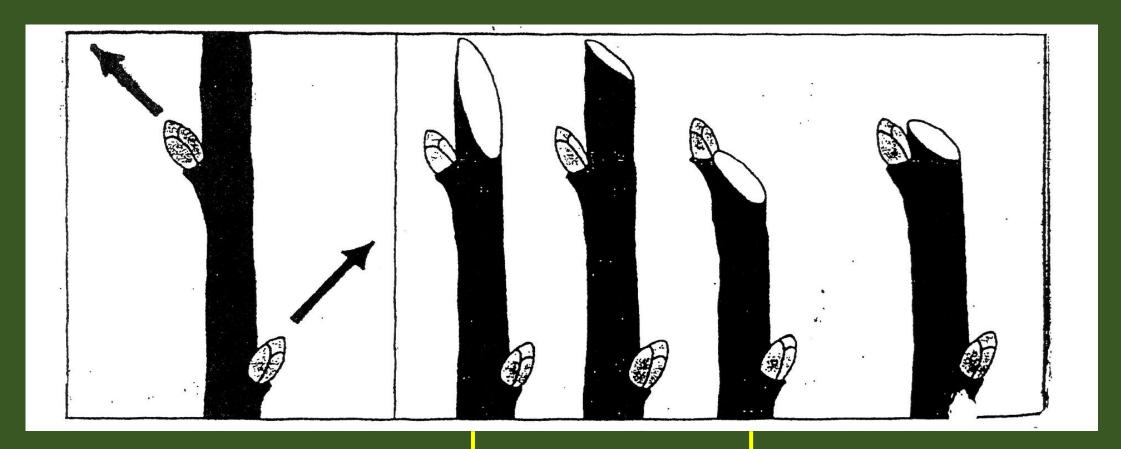


Heading Cuts

IAA

IAA (auxin) suppresses lateral branch growth. If the bud is removed, then lateral branches develop.

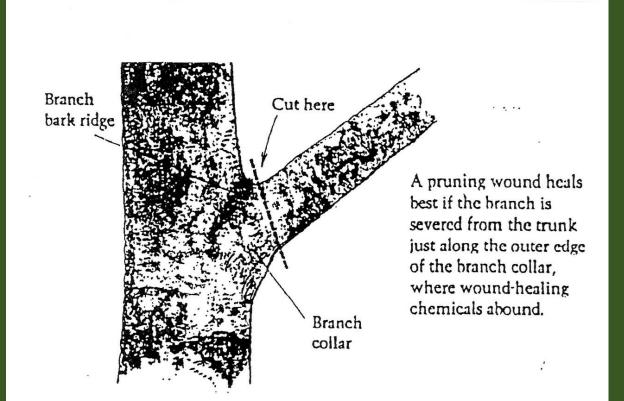
Heading Cut: cut to a bud



Incorrect cuts



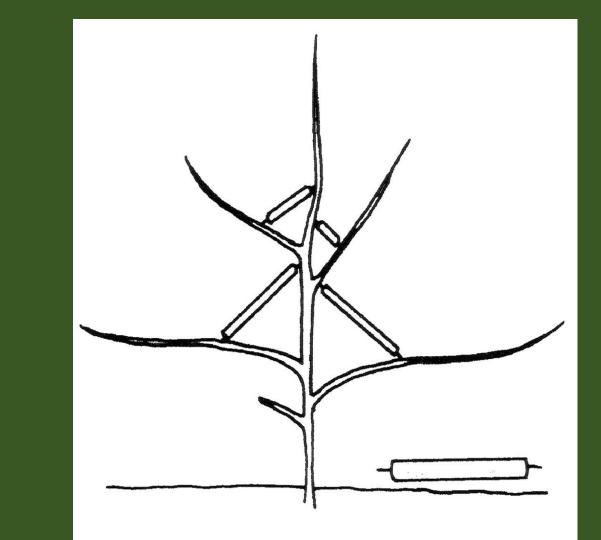
Thinning Cuts



- Bark ride: ridge on top of the branch/trunk interface.
- Branch collar: swollen area on the underside of the branch/trunk interface.
- Cut parallel to the bark ride and branch collar.
- The tree will seal the wound itself.
- Synthetic sealers aren't necessary.

Two ways to train scaffold branches.





Clothes pins used to create the proper branch angle



Weight used to create the proper branch angle.



Limb spreaders used to create the proper branch angle

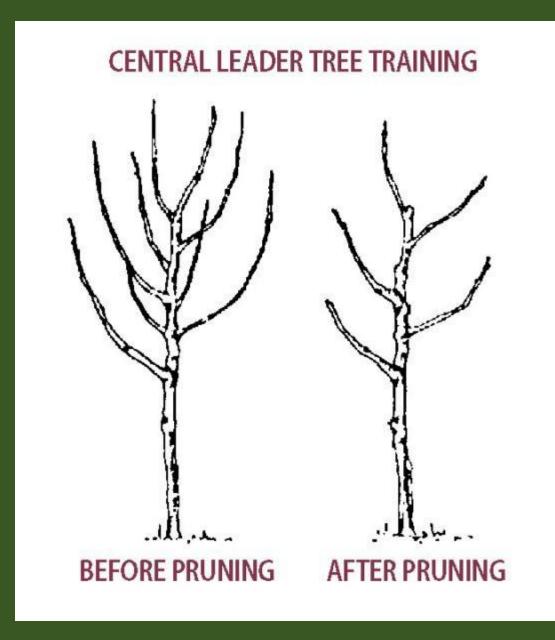
Pruning and Training Fruit Trees

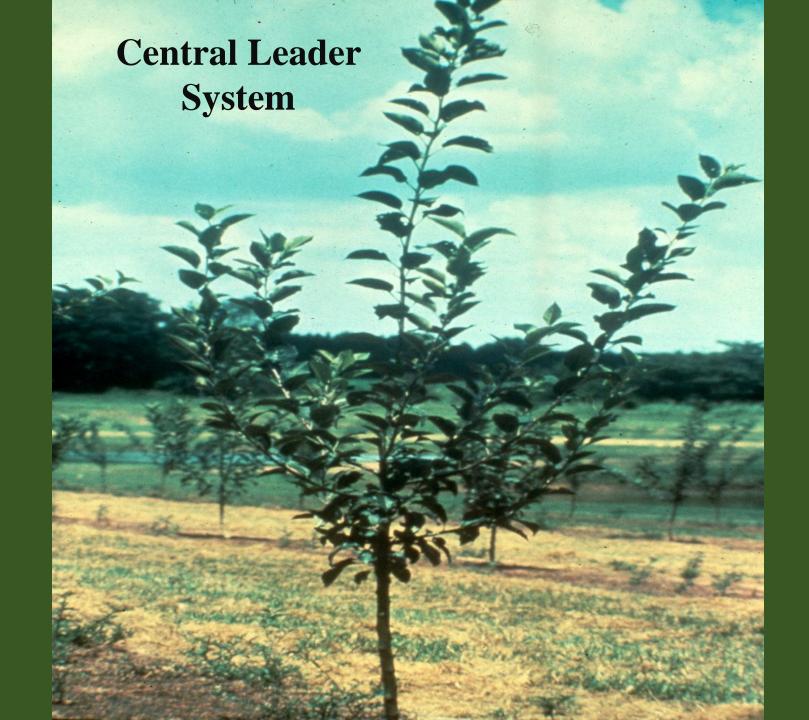
- Fruit trees are pruned and trained to one of two basic structures:
- Central leader system:
 one central trunk with lateral branches spaced along it. The tree will
 - have a pyramidal shape (ex. apple).
- Open center system:
 - several main scaffold branches arising from a short trunk (ex. peach).



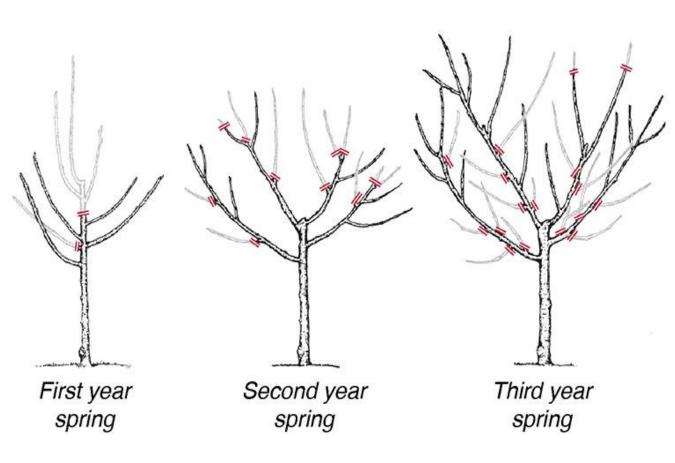
www.groworganic.com

- •One vertical stem or trunk.
- Multiple scaffold (lateral) branches.
 - •These will be your fruit producers.
- •Scaffold branches should be as horizontal as possible.









Open center pruning

• Shortened vertical trunk.

- Mostly lateral branches in a fanned-out pattern.
- Position of scaffold branches makes harvesting easier.







Peaches trained to a central leader.









Fruit Tree Pruning Summary

- 1. Remove Diseased, Dead, Damaged, Decayed.
- 2. Remove one of two branches that cross each other.
- 3. Remove water sprouts/vertical growth.
- 4. Remove branches growing back into the canopy.
- 5. Remember thinning vs. heading cuts.
- 6. Cut branches parallel to the bark ridge & branch collar.

