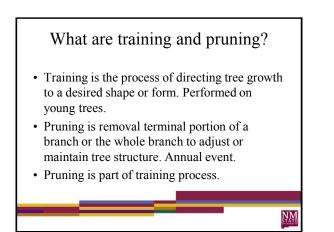
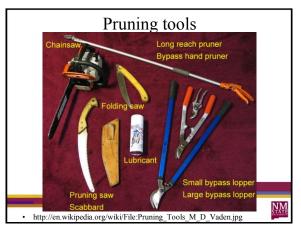
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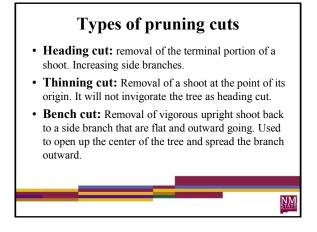


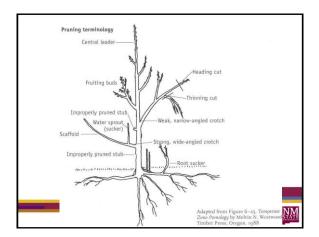
#### Objectives of Training and Pruning

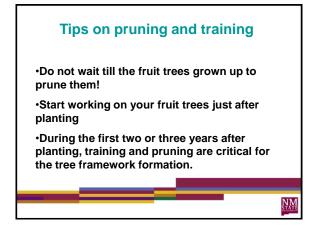
- Develop and maintain desired shaped trees that are capable of early production of large crops of high quality
- Balance vegetative growth and reproductive growth

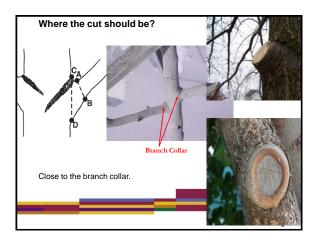


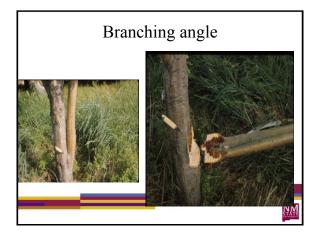






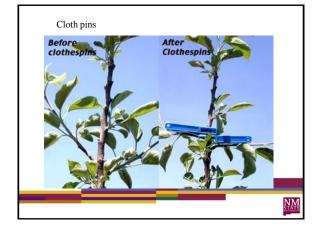


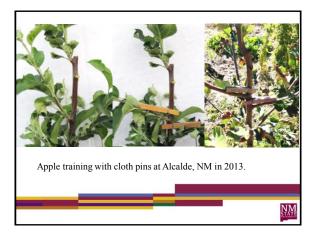




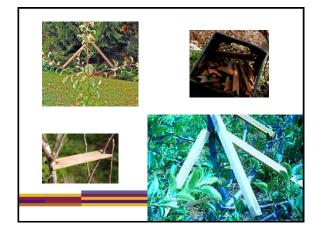
### Spreading branch angles

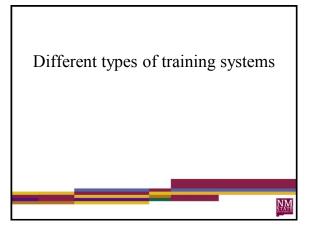
- Clothpin
- Toothpick
- · Branch spreader
- Hanging weight
- (Tying down)

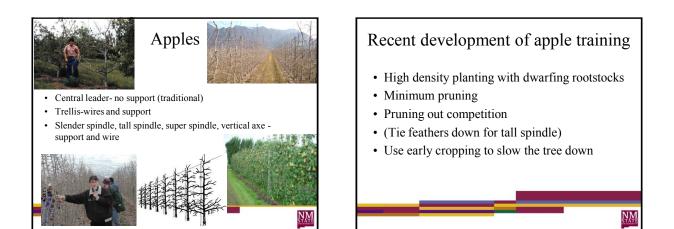


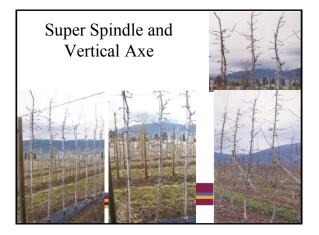


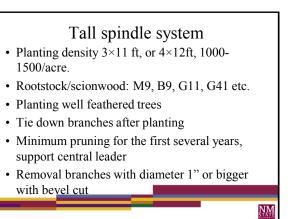
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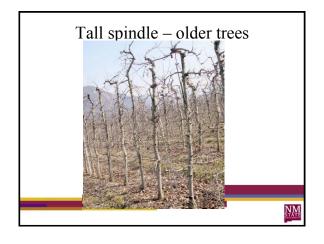




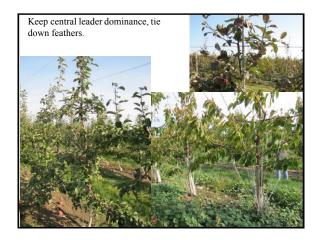












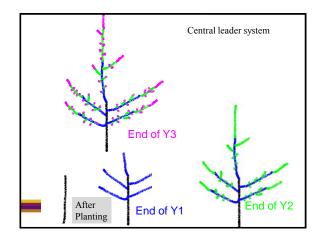


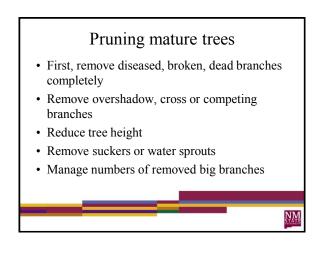


#### Pruning new plantings

- Central leader system: heading cut. The first 3-4 years are critical for tree framework formation.
- http://aces.nmsu.edu/pubs/\_h/h-306.html
- Tall spindle, super spindle, vertical axe etc.: high density, no heading cut, minimum pruning for the first 3-4 years. Early cropping.

ŊM



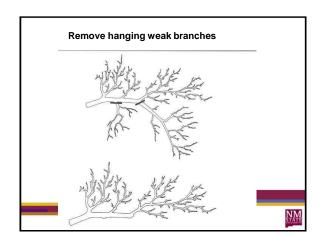


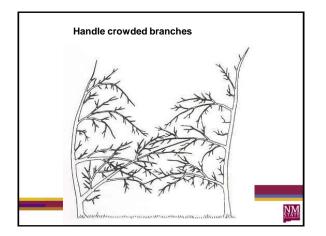
# Principles for pruning neglected trees

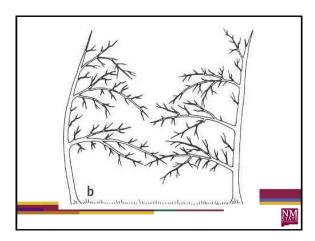
- · Remove dead, diseased, damaged wood
- Lower the height of the tree
- Reducing overcrowding (remove undesirable interior branches)

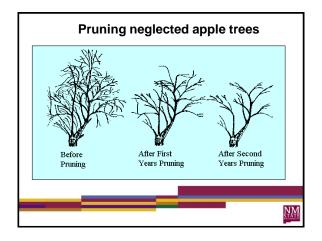
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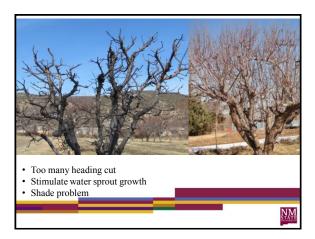
- Remove low hanging off branches
- Prune moderately every year.

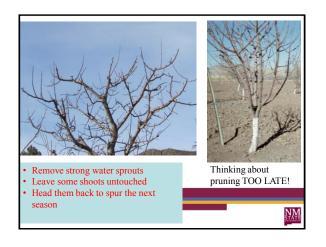


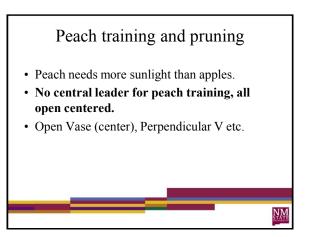


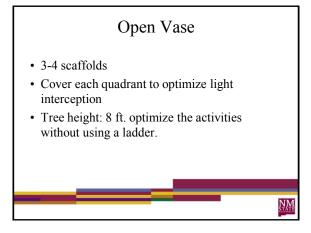


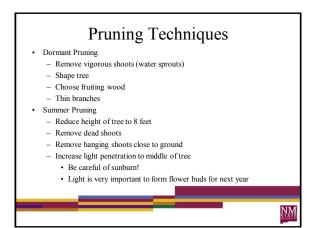


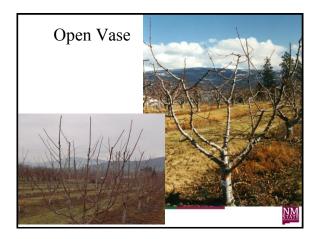


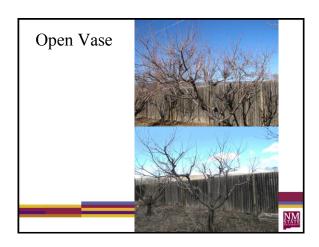










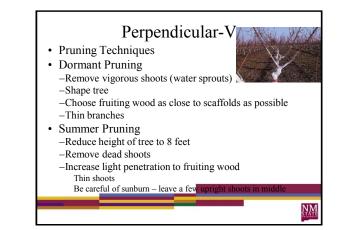


#### Perpendicular-V

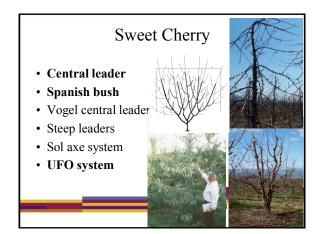
- · System developed in California
- Trees are trained to two main scaffolds
  - -50-60 degrees apart between scaffolds
  - -If angle is too vertical (<20° from vertical), scaffolds will be weak
- –If angle is too horizontal (>45° from vertical), scaffolds are sunburn-prone

NM

• Tree height set at 8 feet -Optimize activities from ground







## Upright Fruiting Offshoots (UFO)

- Precocious system
- Space between trees filled at planting
- Use unpruned and unbranched trees
- Plant at an angle of 45-60° from vertical
- Focus growth on well-spaced upright buds



#### Raspberry and blackberry

#### **Floricane cultivars:**

• Prune the fruited floricane (second year) out in winter and keep the primocane (first year) for fruiting

**Primocane cultivars:** 

• Prune them all the way down to the ground in winter.

