



### Apples require cross pollination

- Each tree should be within 50 feet of a pollinizer
- Crab apples can pollinate apples
- Bloom times must overlap
- Pollen must be viable

Early Season	Mid Season	Late Season
Liberty	Cortland	CrimsonCrisp
Lodi	Delicious	GoldRush
McIntosh	Empire	Macoun
Paulared	Enterprise	Northern Spy
Wealthy	Gala	Rome
	Golden Delicious	
	Redfree	1
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## Poor Apple Pollen Sources Early Season Mid Season Late Season Gravenstein Baldwin Spigold Winesap Mutsu R.I. Greening





# Apple Tree Spacing • Standard (seedling) – 20-30 ft • Semi-standard (MM.111, MM.106) – 15-20 ft • Semi-dwarf (M.7, G.30) – 12-20 ft • Large dwarf (M.26) – 6-12 ft • Dwarf (M.9, B.9, G.16, G.41) – 2-8 ft • Sub-dwarf (M.27, P.16, G.65) – potted



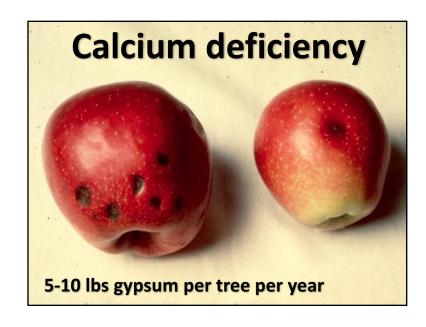














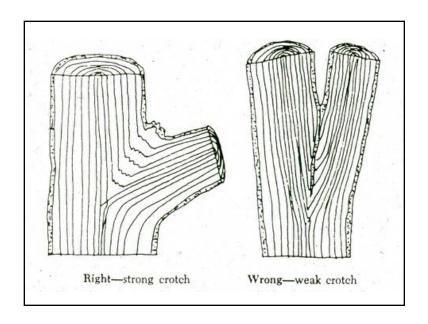












## **Young Apple Trees**

- Almost no pruning is required
- Maintain dominance of central trunk
  - Remove direct competitors
  - -Apply 2-to-1 Rule
- Remove bad crotch angles
- Timing: Spring through early summer







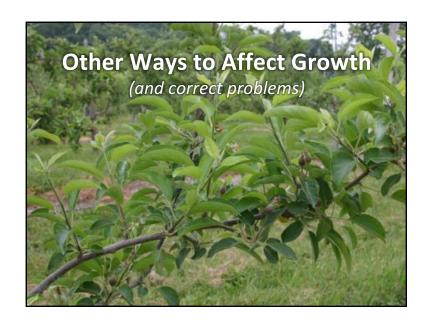


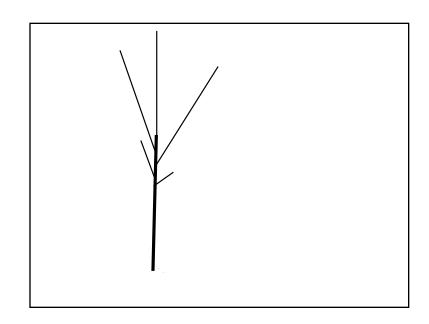


### **Seven Simple Rules for Apple Pruning**

Optimal timing: February-May

- 1. Remove 2-3 of the largest limbs in the top 2/3's
- 2. Use the 2-to-1 rule
- 3. Avoid stubbing (or heading) cuts
- 4. Simplify branches
- 5. Remove drooping branches
- 6. Remove branches growing straight up
- 7. Maintain central leader

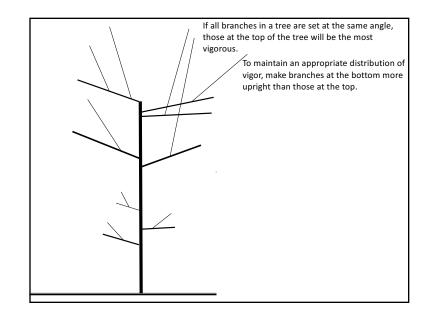




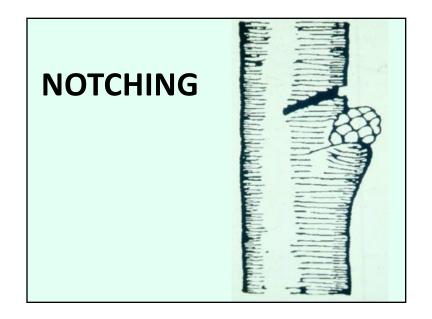


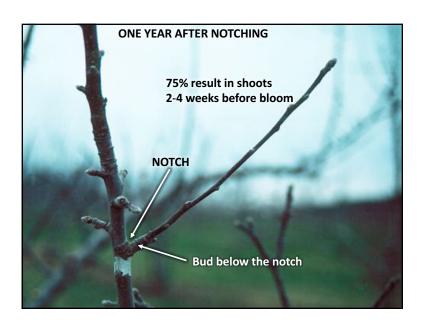






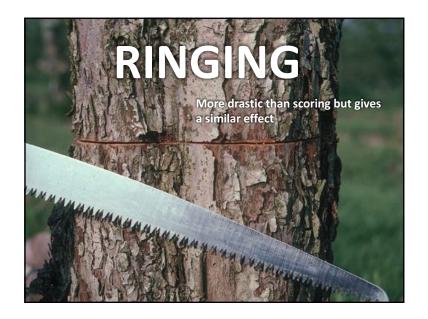












## **Apple Fruitlet Removal**

- Thinning of young fruit is necessary
- Increased fruit size
- Enhanced bloom next year
- Hand thinning mid to late June
  - -No more than 1 fruit per spur
  - -No more that 1 fruit/8-10 inches of branch











