



Select a Good Site

- Lots of sun
- Sheltered from wind
- Well-drained soil
- Avoid frost pockets

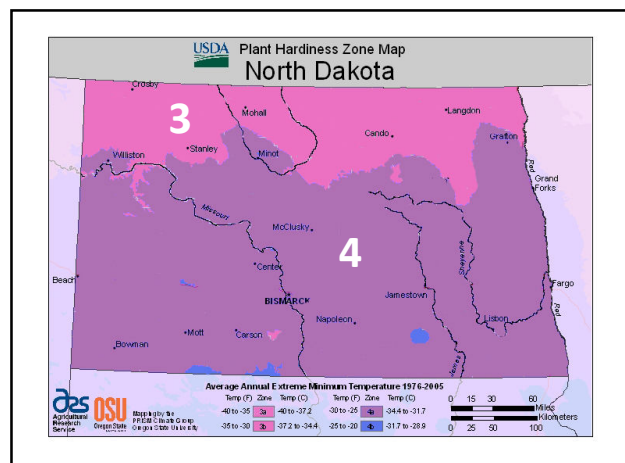
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Selecting Plants

- Local nurseries and garden centers
 - ✓ Bailey, Jeffries, Proven Winners
- Jung Seed, Stark Bros.
- St. Lawrence
- Other northern sources

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Apple Cultivars

- | | |
|----------------------|-----------------------------------|
| Zestar! | Crisp, all-purpose early apple. |
| Duchess | Good disease resistance. Cooking. |
| Prairie Magic | Very hardy. Great flavor. |
| Honeycrisp | Sweet and crisp. Stores well. |
| Haralson | Easy to grow. Somewhat tart. |

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Apple Rootstocks

Affects tree growth and size

- ✓ *Standard* (Antonovka, Dolgo) 20–25 feet
- ✓ *Semi-dwarf* (M26, M7A, CG30) 12–15 feet
- ✓ *Dwarf* (M9, Bud 9) 9 feet

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Staking

Staking

- 3/4-inch conduit piping
- Prevents wind damage
- Supports graft union
- Leads to earlier bearing and higher yields

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Mulching

Watering Young Trees

- 10 gallons per inch of caliper per week
- Do not irrigate wet soil



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Pest Management

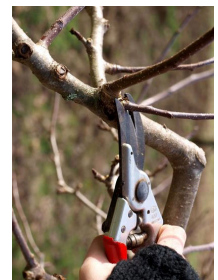
1. Remove fruit and leaf litter
2. Protect with fungicides (captan, sulfur) when buds break
3. Protect with insecticides (malathion, spinosad, pyrethrin) and/or traps after petals fall





Pruning Basics

- Prune every winter
- Maximize sunlight and wind movement in the canopy
- Keep height manageable



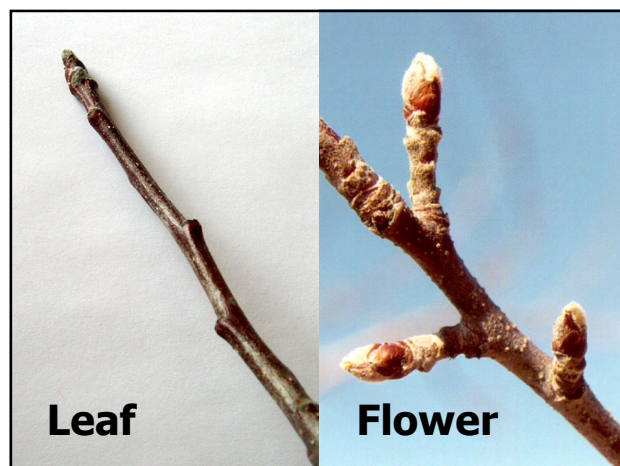
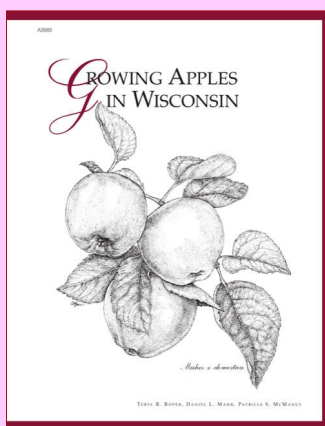
Pruning – When?

March/April

- Easily see the limbs
- Dormant
- Prevents spread of diseases



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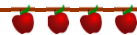


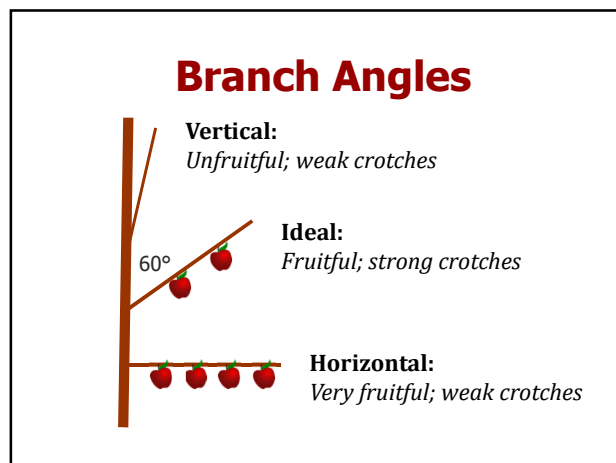
Branch Angles

Vertical:
Unfruitful; weak crotches

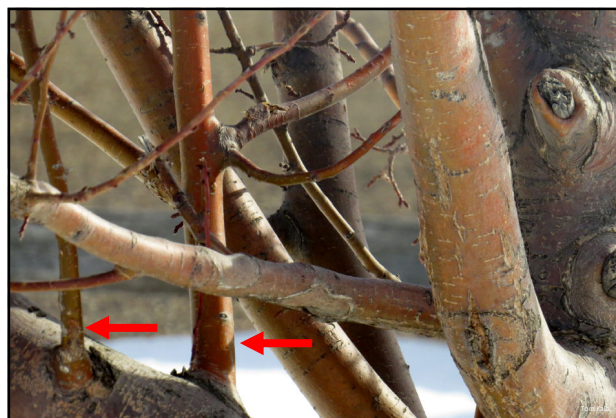


Horizontal:
Very fruitful; weak crotches





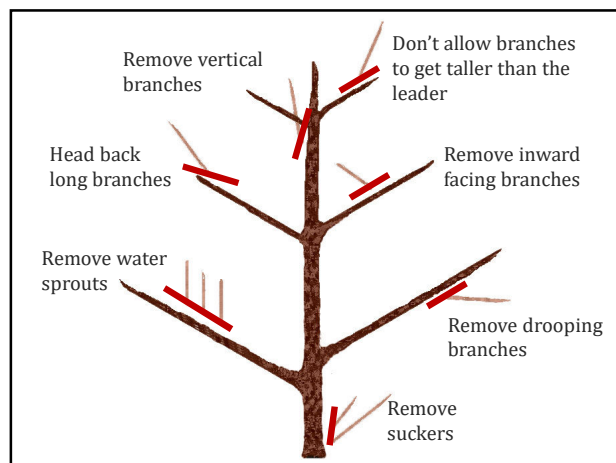
Remove suckers

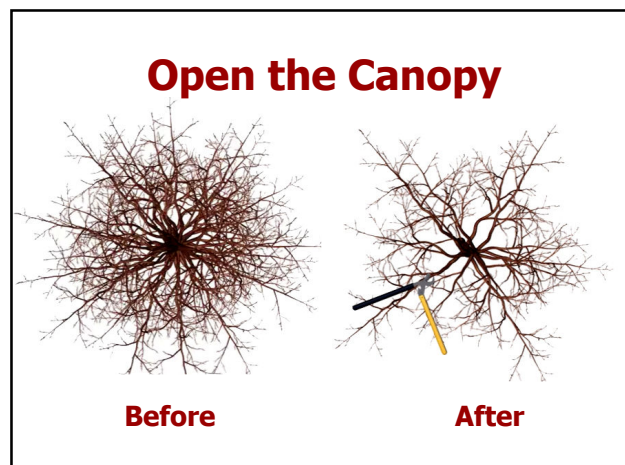


Remove water sprouts



Remove crossing branches





Rejuvenating Old Trees

- **Open the canopy**
Remove water sprouts, crossing branches and dead wood
- **Reduce height**
- **Multi-year task**



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