

Welcome!

ISA Certified Arborist Exam Prep

March 11, 2019

Pruning

ISA Study Session

North Dakota Urban & Community Forestry Association
(NDUCFA)

Initial Thoughts

- Pruning is a wound.
- Trees grow differently in forests vs. planned landscapes.
- Standards are in place.
- Pruning is an art and a science.
- Every tree is different.

Why do we prune?

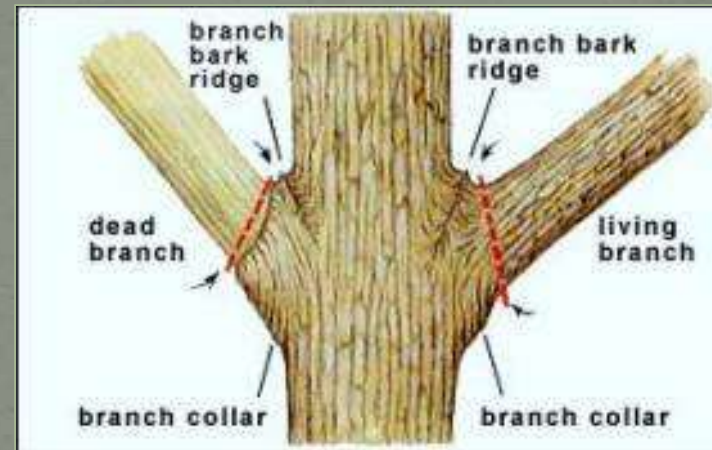
- Most often for “people” reasons...
 - Clearance
 - Aesthetics
 - Maintain safety
 - Develop strong central leader
 - Enhance vigor
 - Increase light penetration
 - Provide a view
- American National Standards Institute
 - A300 standards – pruning
 - www.ansi.org

Timing

- Ideal vs. Realistic
- Generally... late spring, before bud break
 - Species dependent... Oak Wilt, DED
 - Flowering – on new years growth or on last years.
- “Bleeding”
 - Is it bad?
 - Primarily maple’s, birch as well

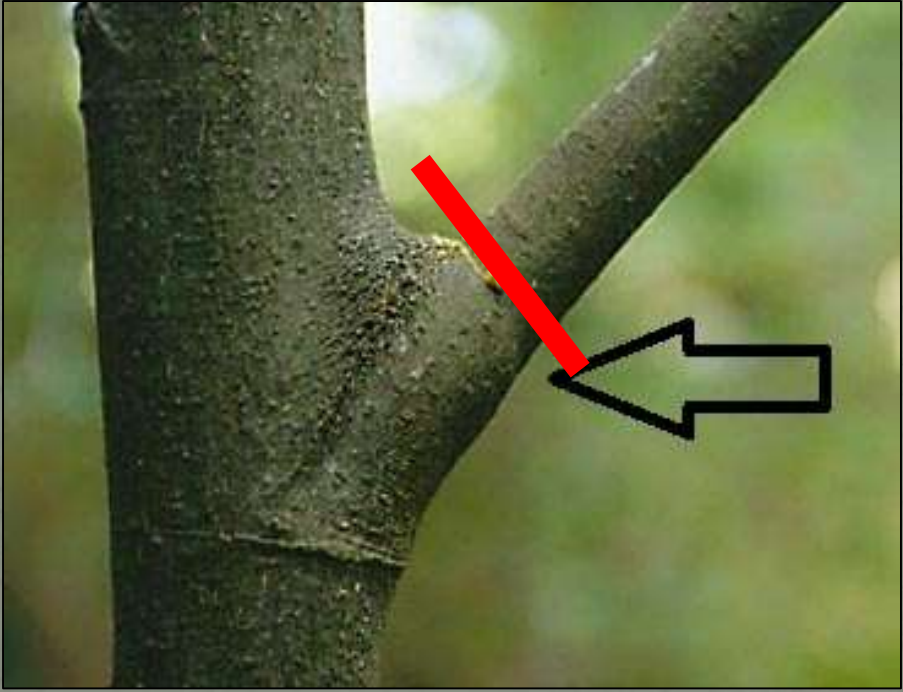
Pruning Cuts

- Clean, sharp tools
- No jagged edges
- No tears
- Smooth surface
- At the correct location
- Branch collar
- Branch bark ridge





UGA5043006



More Terms...

- Branch protection zone
- Compartmentalization
- Lateral cut/reduction cut
- Subordinate
- Codominant
- Included bark
- Permanent branch
- Branch bark ridge

Structural Pruning – young trees

- Steps
 - Remove broken, dead, dying, or damaged branches.
 - Select and establish a dominant leader.
 - Select and establish the lowest permanent branch.
 - Select and establish scaffold branches.
 - Selection and subordination of temporary branches.

- Forest Tree vs. Landscape Tree

Pruning – mature trees

- Not as tolerant to pruning
- No more than $\frac{1}{4}$ of the leaf bearing canopy
- Less reserves left for wound closure
- Usually dead branches or to address safety
- Crown cleaning
- Crown thinning
- Crown raising
- Crown reduction
- Vista pruning
- Utility pruning
- Topping or heading back
- Crown restoration
- Watersprouts
- Lions-tailing

Pruning Palms

- Basically... try not to prune at all

Specialty Pruning

- Espalier
- Pollarding



Pruning Tools

- Sharp
- Clean
- Anvil type tools = avoid; By-pass is preferred
- Appropriately sized

Plant Growth Regulators

- Increase or decrease
 - Normal growth
 - Flowering
 - Fruiting
- More common among Utility Arborists
 - Antigibberellins



