

Tree Care without Chemicals

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Our Premise!

- Proper selection, planting, and care when trees are young reduces long-term need for maintenance and chemicals. They prolong the tree's life, and reduce hazards.
- Trees are less adaptable as they get older.
- Learn to recognize a hazardous tree to be able to respond quickly to issues.

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Tree Selection

Select trees according to your ability to water and care for them



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Katsura

Tree Selection

Select trees suitable to the site for both roots and canopy

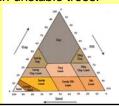




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Trees and Soils

- Know the soil and manage according to soil structure.
- Compacted clay, hardpan, and a high water table can restrict roots to shallow depths and result in unstable trees.



Tree Selection

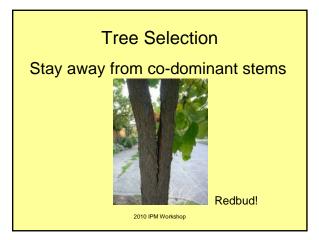




Choose a strong central leader

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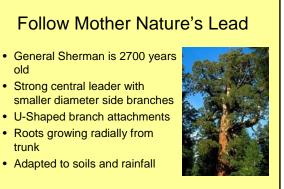
Tree Selection U-shaped, not V-shaped, branch attachments A. U-shaped strong B. V-shaped weak union Figure 2. Types of branch unions











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Tree Planting

- Eliminate circling roots at planting
- Shave root ball's outer edge
- Remove kinking and downward-growing roots



Tree Planting

- Plant shallowly so that the top root is at or slightly above the soil surface.
- This tree was planted too deeply and is unstable. Notice how roots grow upward to surface.

Tree Planting

 Keep mulch off the root ball to prevent upward root growth



Tree Care: Mulching

For established trees, mulch lightly, and keep away from the trunk.



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Tree Care: Watering

- Water a newly-planted tree at the trunk for several years. After that, move outward from trunk.
- Try a bag or ring but check the trunk



Tree Care in Lawns

- Keep turf away from tree root zones
- Avoid Weed n Feed near trees



Managing Trees Long-Term

- Old trees are less tolerant of change
- In old trees, leaves have a low ratio of leaves to biomass.
- Photosynthesis is a maintenance activity, not a growth activity
- Limit pruning

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Managing Older Trees

- Old trees need water too
- Old trees benefit from mulch
- Old trees offer homes to other species and serve as ecosystems



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Managing Trees Long-Term

 This 9550-year old spruce in Sweden only looks young. Its roots make it the oldest tree on earth.



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For More Information

- WSU Hortsense http://pep.wsu.edu/hortsense/
- Ed Gilman's Website http://hort.ufl.edu/woody/

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