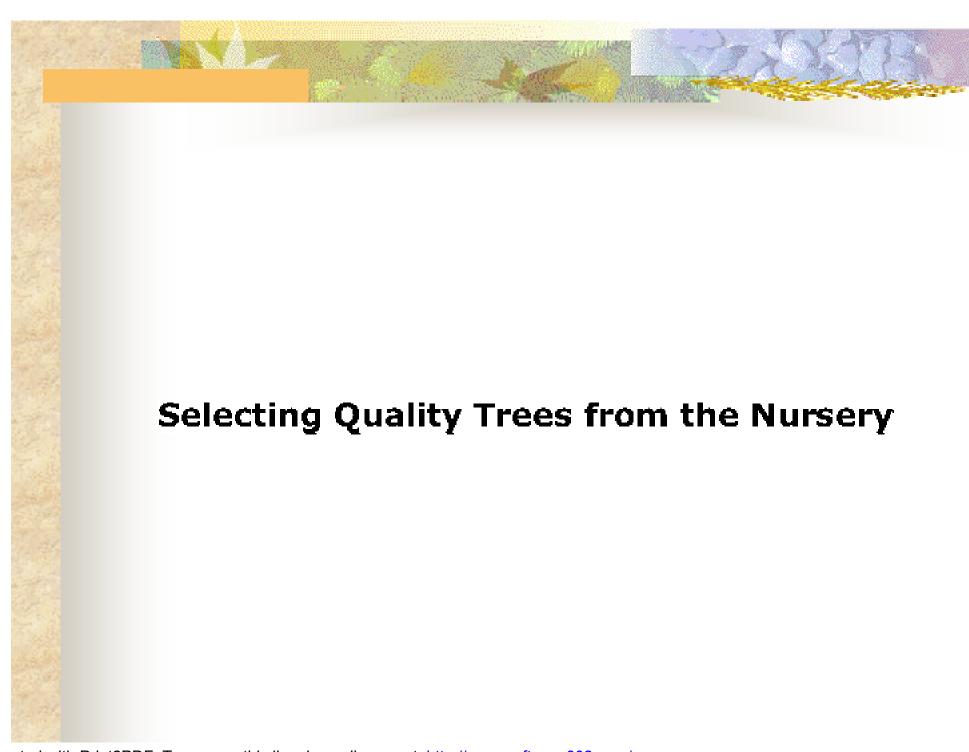
Urban Trees Selection, Placement, Planting and Care

John Sugg Treefull Communities, LLC



Poor Quality vs. Good Quality





Important Considerations

- Production method
- Maximum size at planting
- Root ball dimensions
- Root collar location
- Root defects
- Root ball:caliper:height relationship
- Trunk and branch structure

Other Factors Influencing Tree Quality

- Canopy uniformity and fullness.
- Quality of old pruning cuts.
- Seed or propagule source.
- Insect and disease infestation.
- Trunk injury or broken branches.
- Tree wrap (may be covering up wounds).
- Foliage color and size.
- Dieback in canopy.
- Presence of stakes.



Urban Design to Encourage Tree Canopy



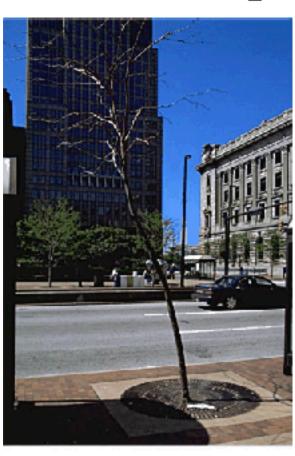
Trees often grow
 poorly in urban areas
 unless the
 infrastructure has
 been specially
 designed to
 accommodate tree
 root growth

Few citizens want cities without trees.

 A city without trees is hotter in summer, receives less rainfall, has greater runoff following storms, has fewer shoppers, and is not inviting



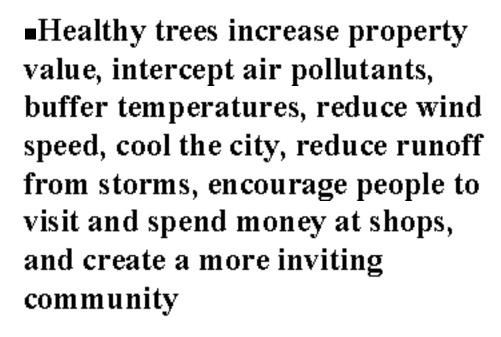
Poor design leads to failure.



- Trees struggle unless spaces are designed appropriately
- When lots of money is thrown at tree projects without guidance from knowledgeable professionals, waste occurs and no one wins

Good design leads to success.





■Trees thrive when good designs are executed properly



Ten Steps to Proper Planting

- Look up for wires/lights
- Dig shallow/wide hole
- Find the top-most root
- Place tree in hole
- Position top root 1-2" above landscape soil
- Straighten tree
- Remove synthetic materials
- Add backfill soil and firm the root ball
- Add mulch to cover root ball sides
- Stake if needed

Look up for wires/lights.



Dig shallow/wide hole



Find the top-most root.



Sever girdling roots if tree is containerized



Place tree in hole and position top root 1-2" above landscape soil



Straighten tree and remove synthetic materials



Add backfill soil and firm the rootball.



Make sure existing rootball is not covered by backfill



Water



Add soil to settled areas.



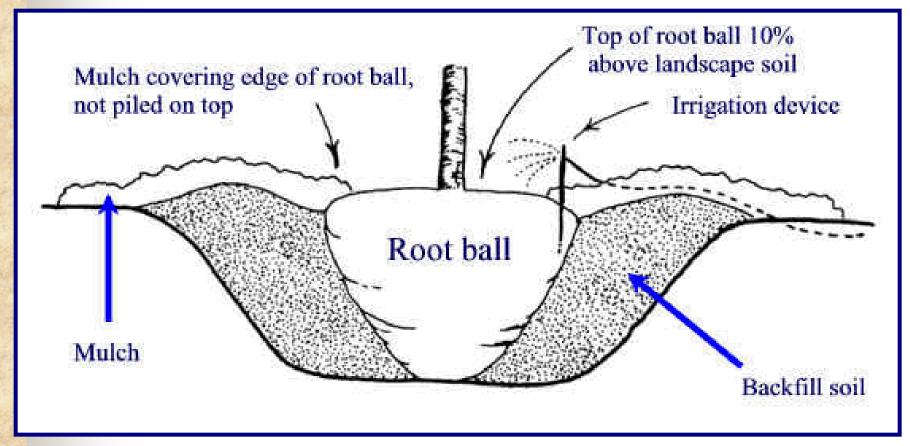
Add mulch to cover rootball sides and stake if needed



Do not pile mulch against the trunk!

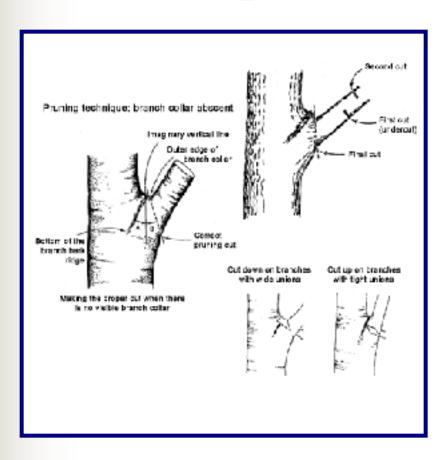


Proper Planting Detail



Pruning Shade Trees in the Landscape

Large Branch Removal



- Make three cuts to remove a large branch
- Cut down through branches that have a wide angle; cut up through branches with a narrow angle

Before Branch Removal

- Begin a cut at the edge of the branch collar
- The collar contains
 the branch protection
 zone which slows the
 spread of decay into
 the trunk



After Branch Removal

 The collar is left intact after a branch is properly removed



One Year Later



- One year after this branch was removed, callus and woundwood is forming in a circular pattern
- Properly removed branches will form this circular pattern or, initially, a 'U' shaped pattern

Before and After Pruning Photos

Scarlet Oak Before Pruning



Scarlet Oak After Pruning



Willow Oak Before Pruning



Willow Oak After Pruning



Willow Oak Before Pruning



Willow Oak After Pruning

