

# Fringe Benefits 2010



# The Greenhouse in March

- Dormant Native Plants



# Dormant Potted Trees



**Keep in mind that every  
nurseryman is trying to grow the  
money tree!**



# Plastering on the Seed





# Net-Free Covering







# Exposed Pine Roots



















# Dormant BareRoot at Hanson's



# Late April is the Time



# Truckloads of BareRoot!



# Gravel Culture Shrubs





# ROOTS!



# Plants on the Job



# Our Goal





# Imagine Yourself Here



# Introduction to Root Growth

- Roots are generally not as deep as you think
- Deep roots are typically under the trunk and under the canopy
- The majority of roots are in the **top two feet** of soil
- Roots are typically above the water table and above any hardpan
- Many of the small diameter roots are in the top 12 inches



# Roots too Deep in a B&B Root Ball



- There are no surface roots evident where the trunk meets the root ball
- The moist, darkened area on the trunk base indicates the portion of the trunk buried with soil
- Remove soil from on top of ball so the point where the top-most root emerges from the trunk is within the top 2 inches
- Cut roots that circle, those that are kinked, or those that cross over major roots

# **Tree Root Growth After Planting**

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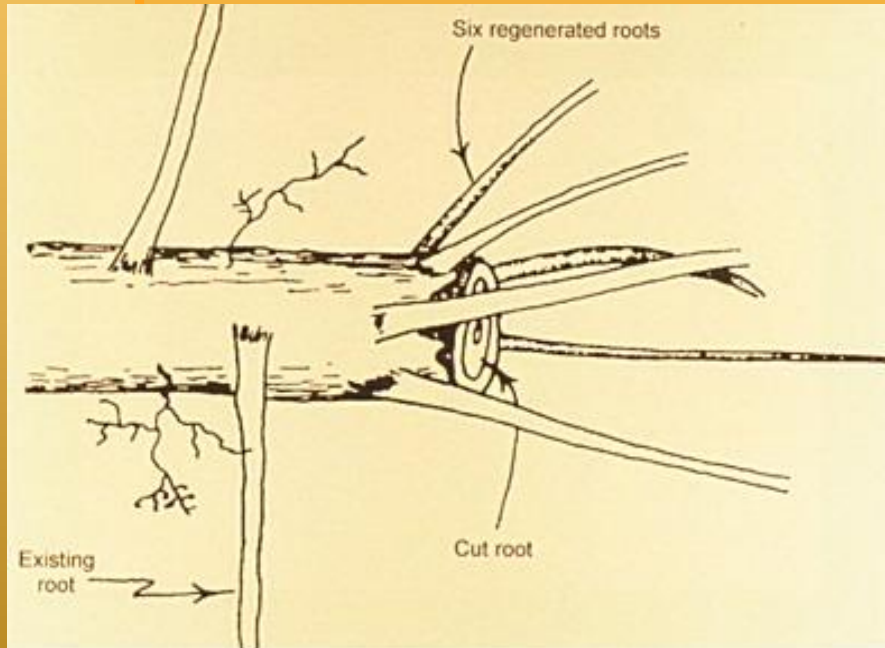
By Edward F. Gilman

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Department of Environmental Horticulture

University of Florida

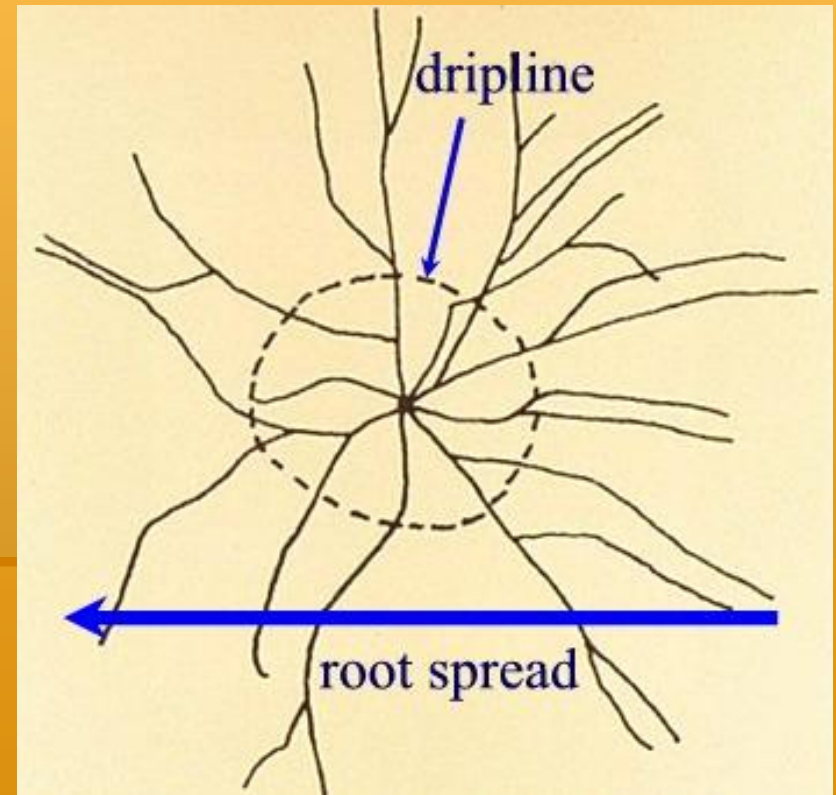
# Roots Emerging From a Cut Root



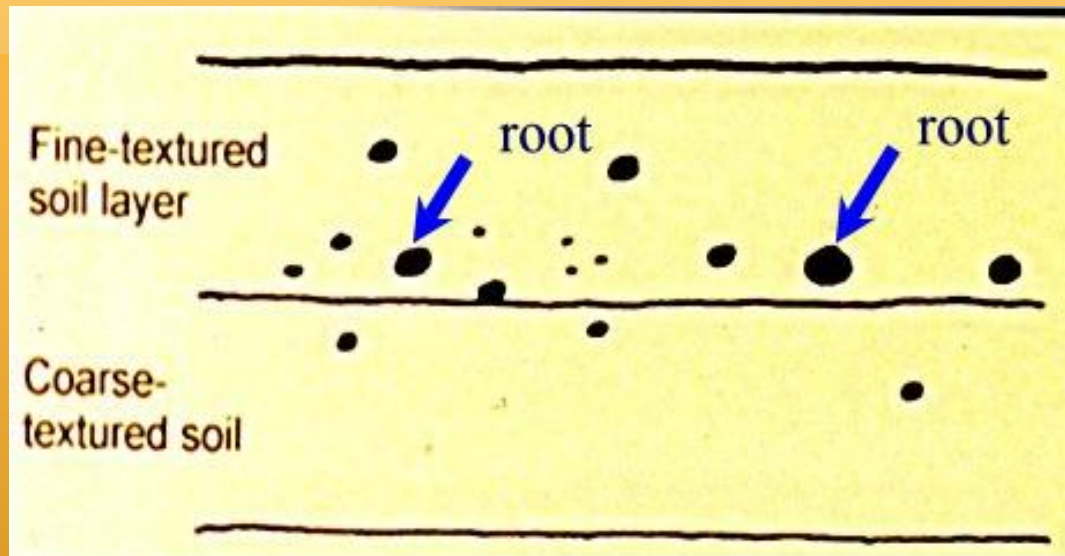
- New roots emerge primarily from the ends of a cut root
- Some new roots emerge from a few inches behind the cut
- Some existing lateral roots are stimulated to grow when the main root is cut

# Roots Spread to Outside the Dripline

- Roots quickly spread to outside the canopy edge (dripline)
- The dripline is indicated by the dashed line
- The black lines are the roots
- Roots commonly extend as far as **two to three times** the dripline
- This means that if the tree crown is 10 feet wide roots can be found out about 20 to 30 feet, sometimes farther



# Roots at the Boundary of Soil Layers



- Roots proliferate at the boundary between two soil types
- Note the abundance of roots where one soil layer meets another





# Happy Trails...

