

# Bristlecone Pine



# TREE CARE

# &

# PLANTING

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Forester

(Retired) Certified Arborist

**EXTENSION**

**VOLUNTEERS**

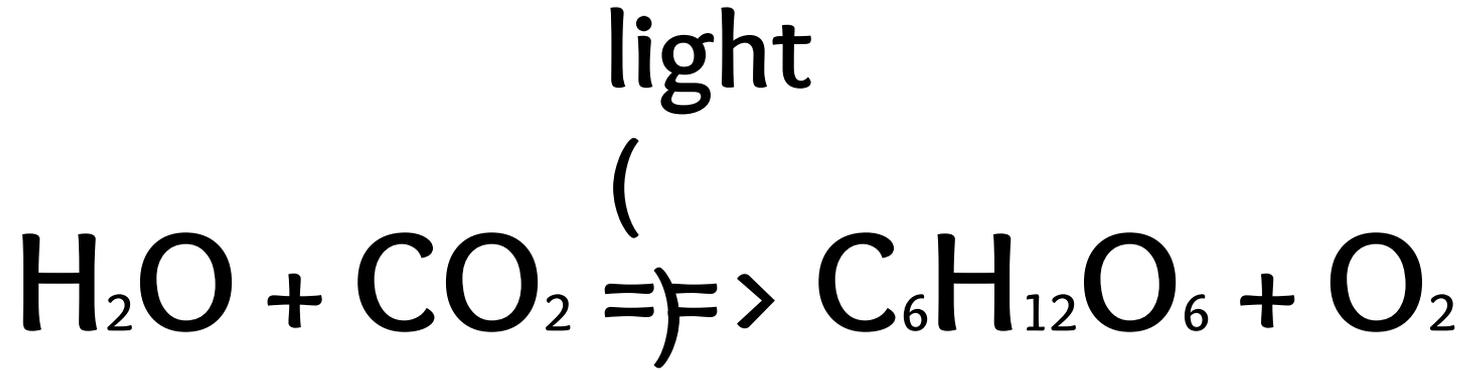
**BIAS**

**MIMOSA**

**P.O.O.P.**

**TREE CARE**

**FOOD**



**TWO TUBES**

**ROOTS**

**HORMONES**

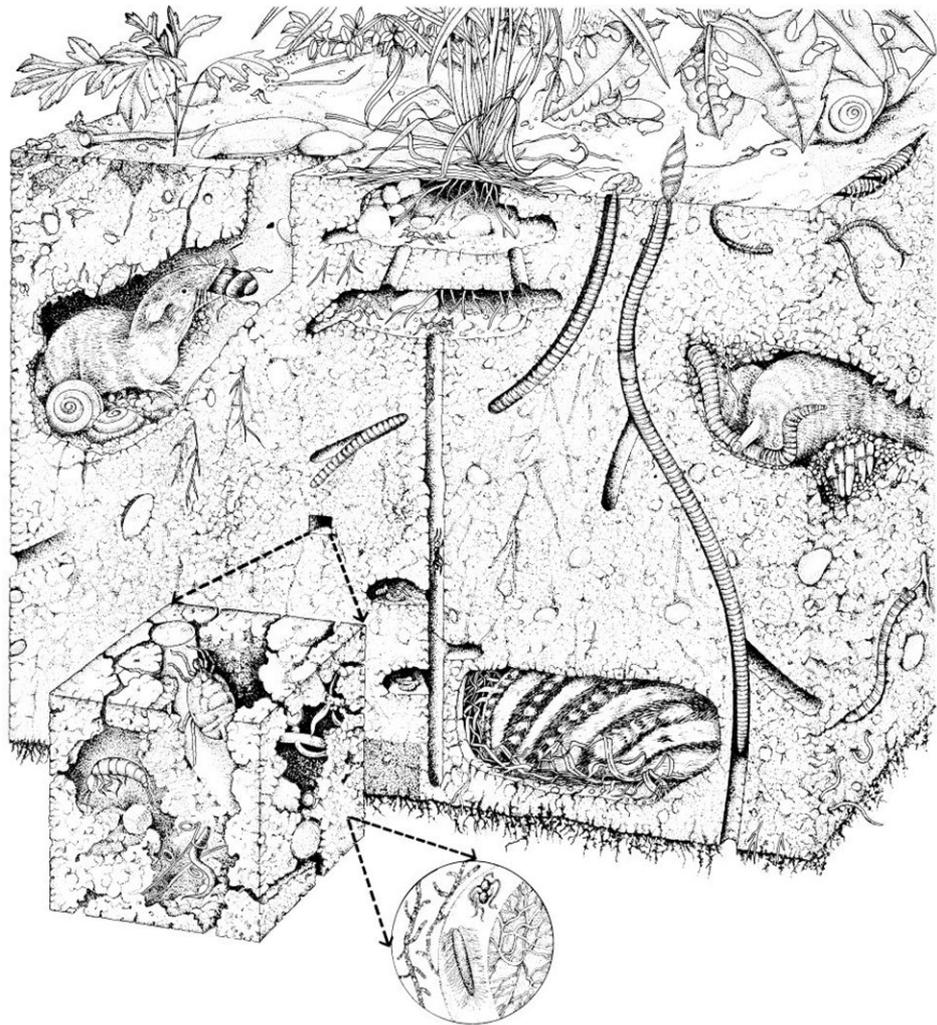
**SOIL**

**PARENT**

pH



45 5 50



**URBAN SOIL**



# LESS WATER?

- ❖ LESS ESSENTIAL ELEMENTS
- ❖ LESS PHOTOSYNTHESIS

**BODY LANGUAGE**

**MULCH**

**DRAINAGE**

**IRRIGATION**

**CREDIBILITY**

**TEN TREES**

# TOP TEN TREES

❖ HACKBERRY  
(2ish)

❖ ELM

❖ PECAN

❖ OAK

❖ REDBUD

❖ ASH

❖ PEAR

❖ MAPLE

❖ MULBERRY &

**FORM**







**BARK**











**LEAVES**

**NATURE**

# **SLOW RELEASE**

**2 - 4 LBS. NITROGEN  
PER 1000 SQ FT**

**“DEEP”**



**N P K**

**N = SHOOTS**

**P = ROOTS**

**K = FROOTS**

**INCREASE GROWTH, DECREASE DEFENSE**

' ~ break? ~ '

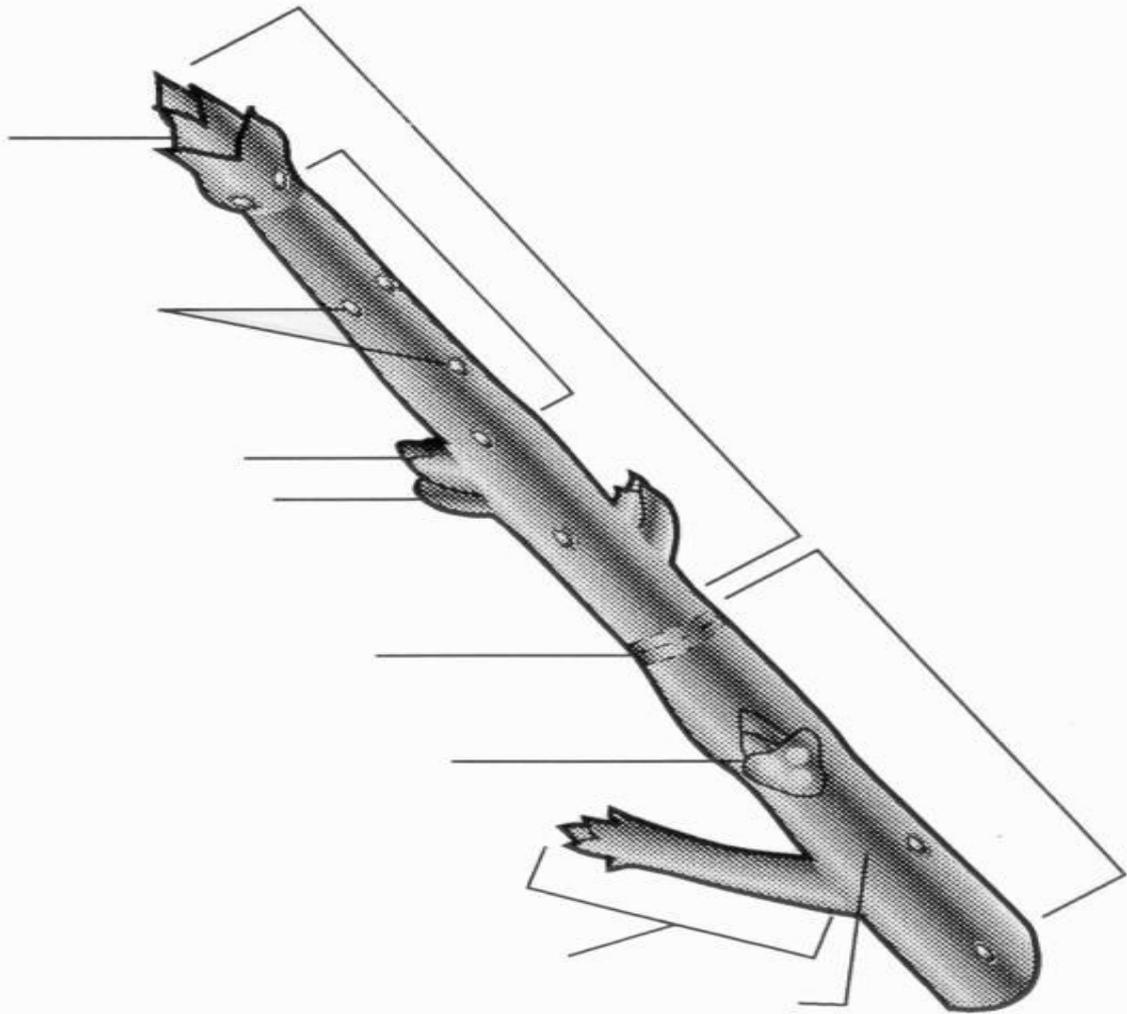
**ASSET & LIABILITY**

**MATCH SITE**

# MICRO- ENVIRONMENT

**GROWTH RATE**



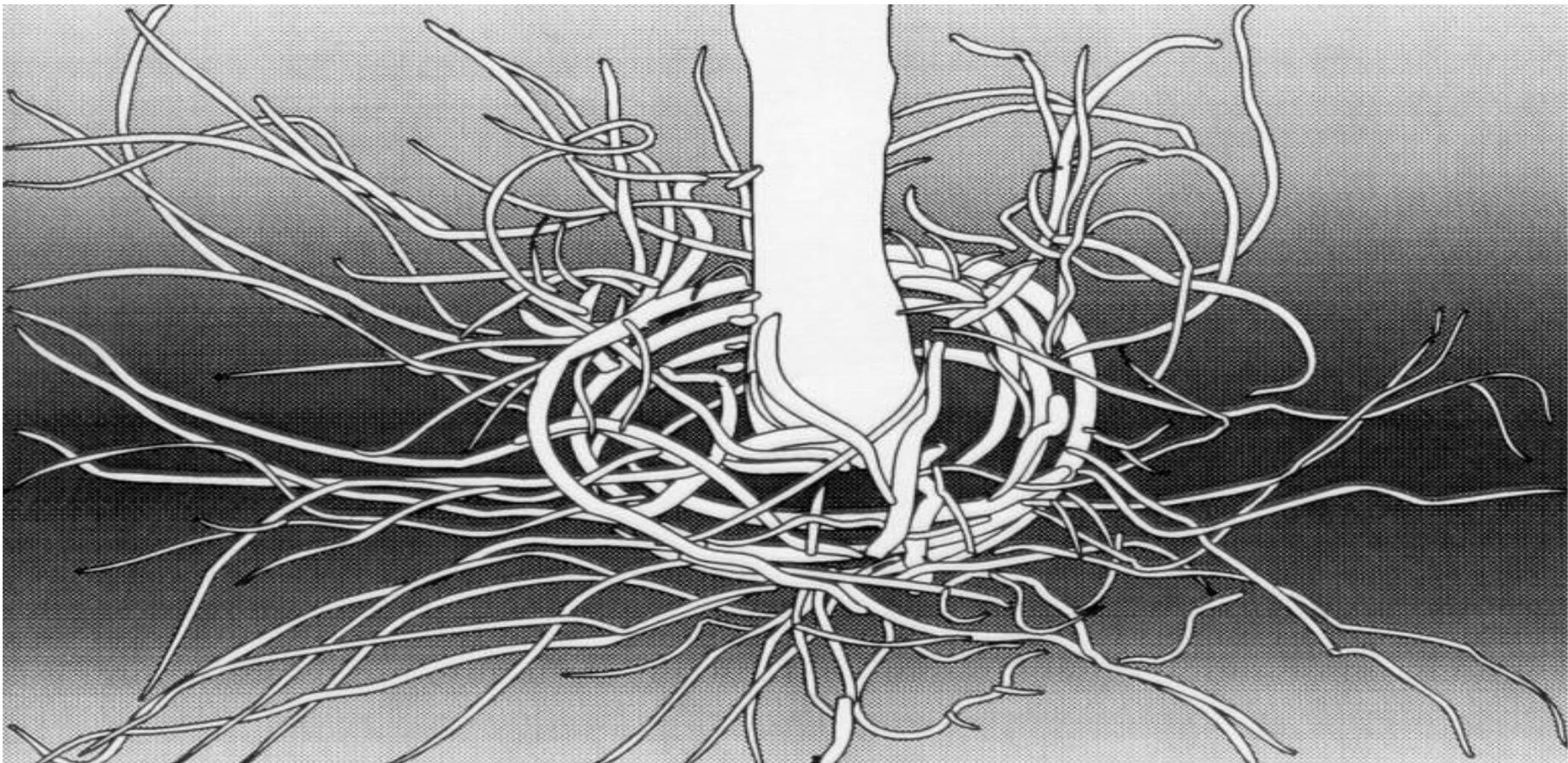


**NURSERY**

**SURVIVE**

**VS**

**THRIVE**



**ROOT FLARE**

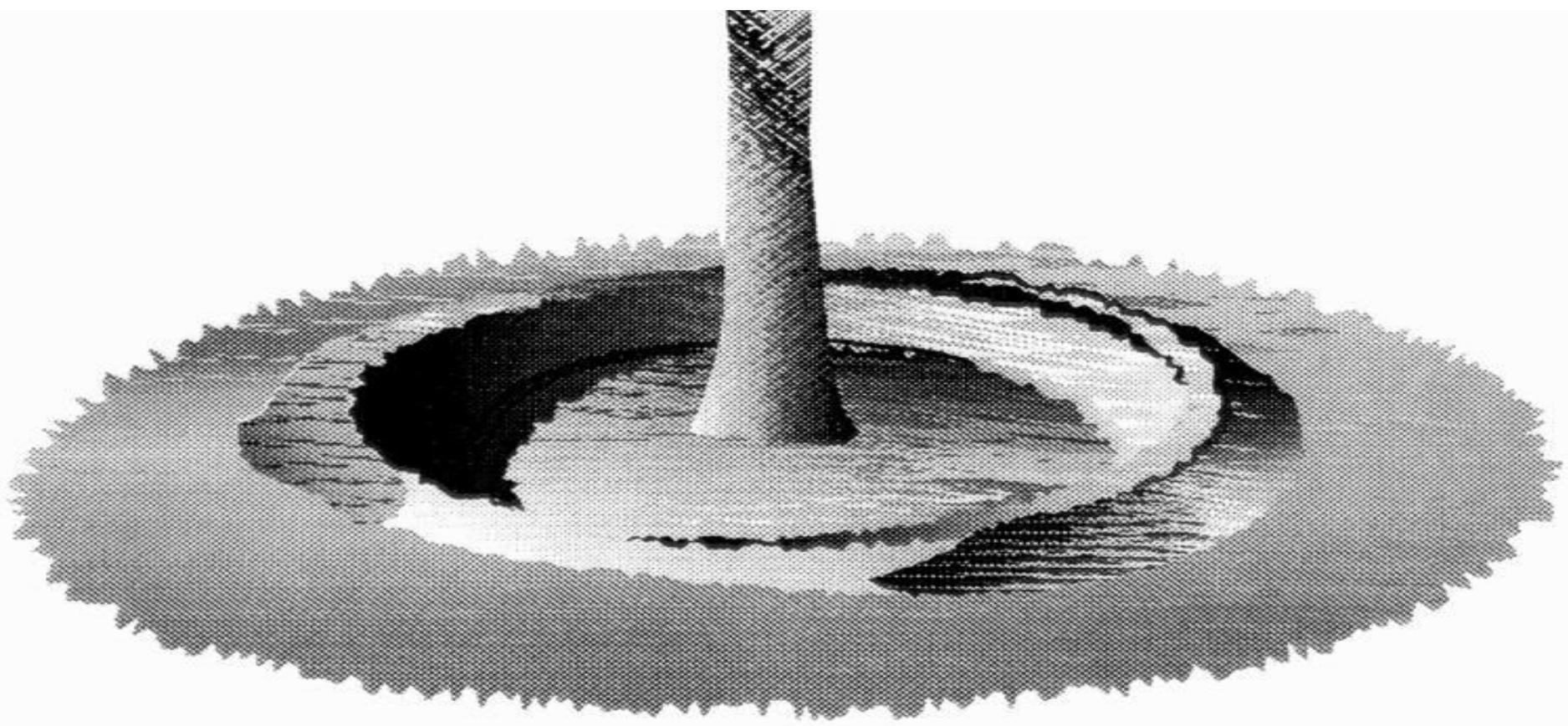


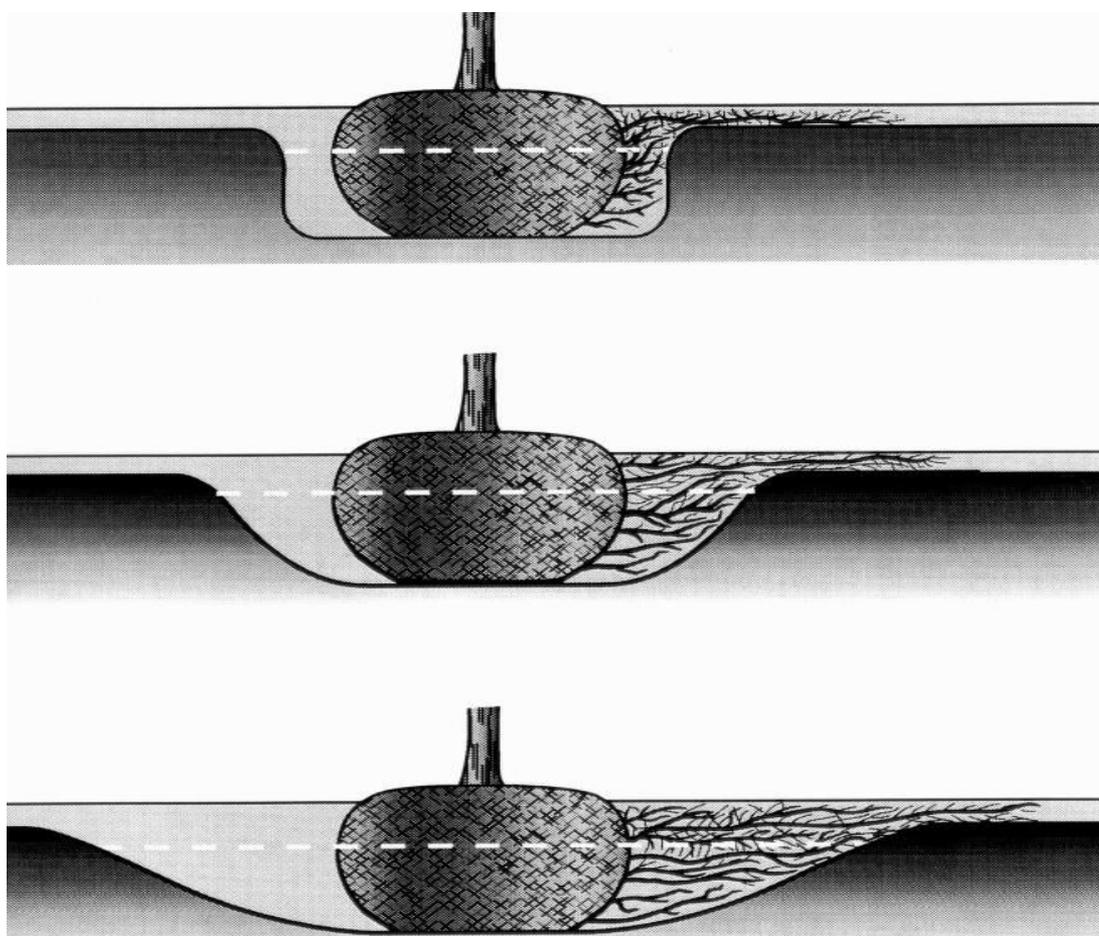




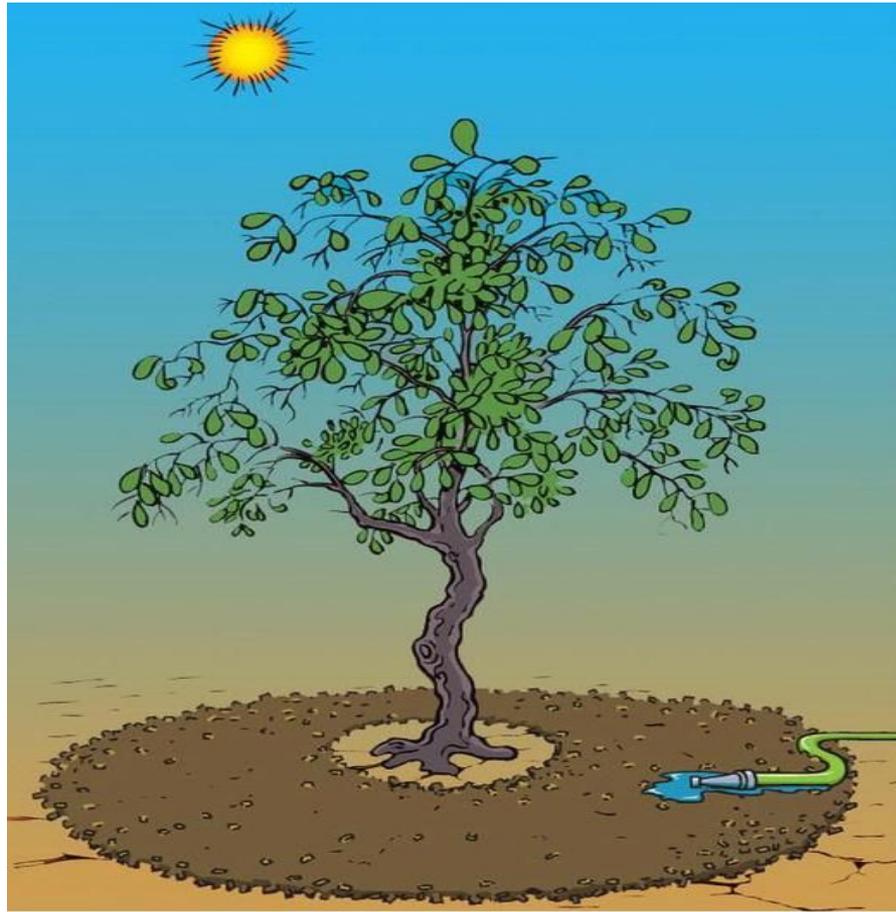
**WIDE**

**HIGH**





**MULCH**



# WHY ?

- ◆ SAFETY
- ◆ HEALTH
- ◆ AESTHETICS

**WHEN ?**

# HOW ?

- ◆ HAND TOOLS
- ◆ 3-CUT METHOD
- ◆ COLLAR CUT

**HIRE AN  
ARBORIST**

**CODOMINANT  
STEM**





**PRUNING**

**=**

**SPROUTING**

**COLLAR CUT**









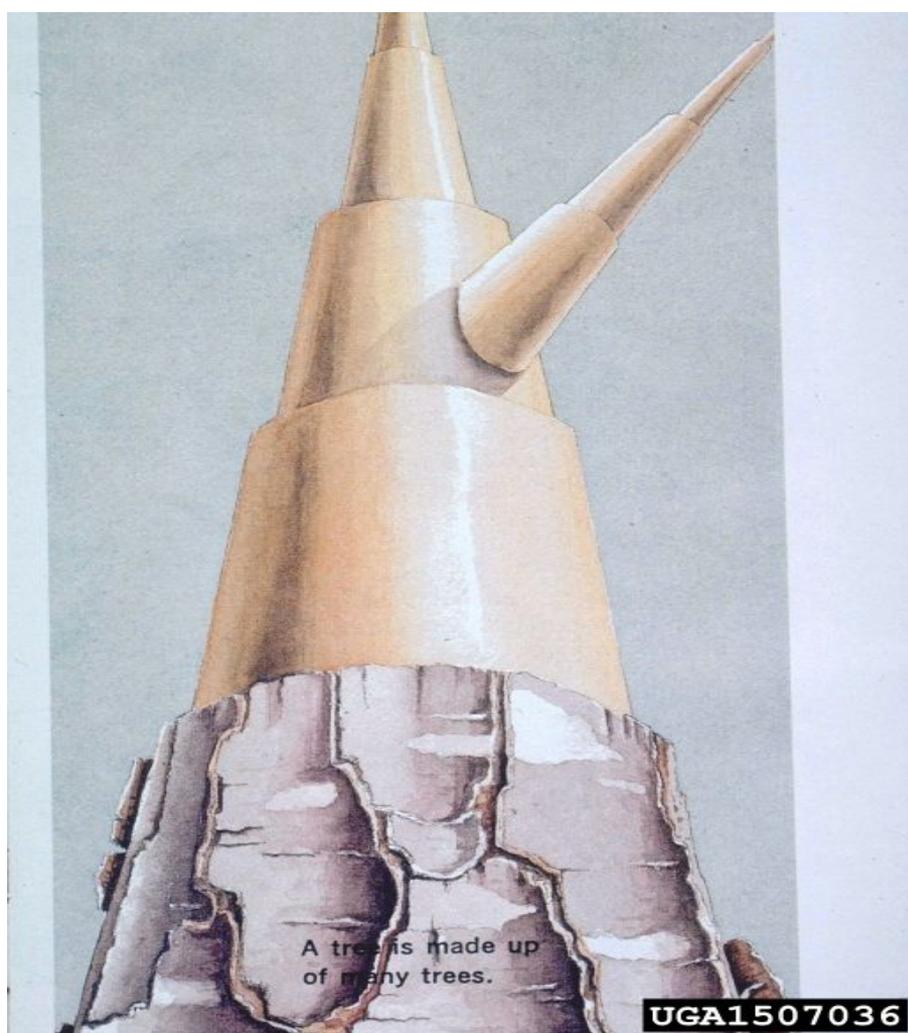
**CAVITIES**

# STRUCTURAL DEFECTS

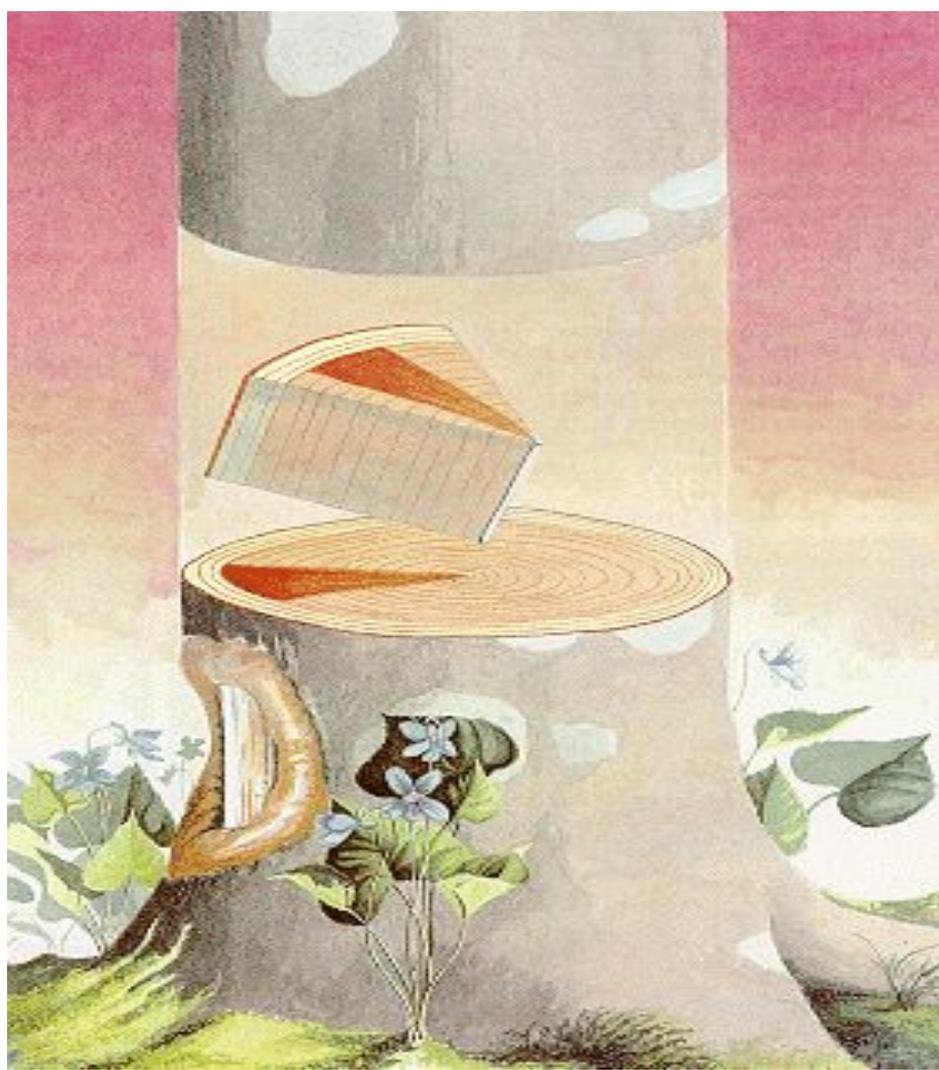


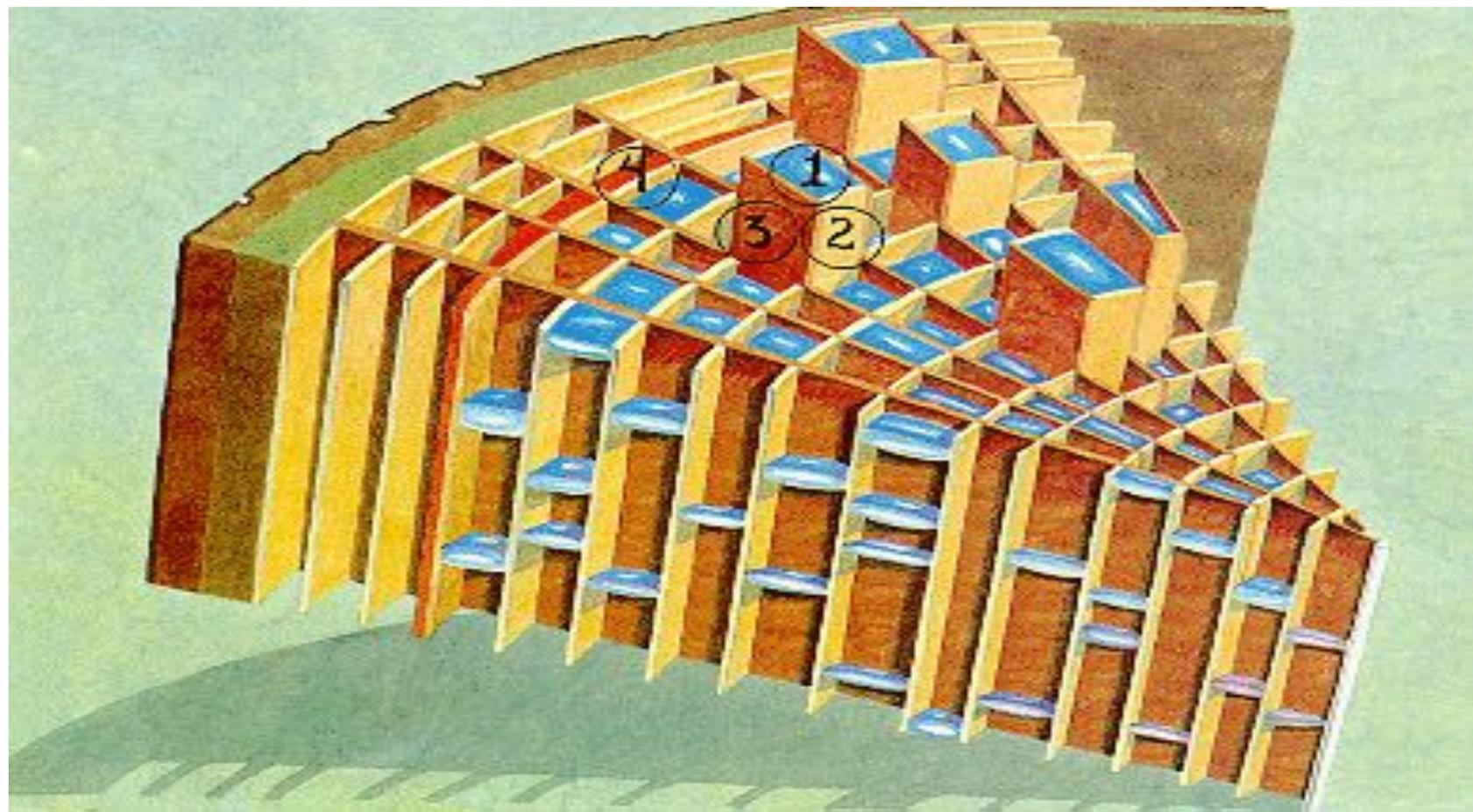
USDA Forest Service - Northeastern Area , USDA Forest Service, Bugwood.org

**C.O.D.I.T.**



USDA Forest Service - Region 8 - Southern , USDA Forest Service, Bugwood.org







UGA1409051

USDA Forest Service - Northeastern Area , USDA Forest Service, Bugwood.org



USDA Forest Service - Northeastern Area , USDA Forest Service, Bugwood.org

**READ THE  
WOODS**

**‘WEB WORMS’**

**ANTHRACNOSE**



# **HYPOXALIN CANKER**



**EMERALD ASH**

**BORER**

**'EAB'**



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**MULCH**

**TOPPING**



**SAFETY**

**ELECTROCUTION**

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