

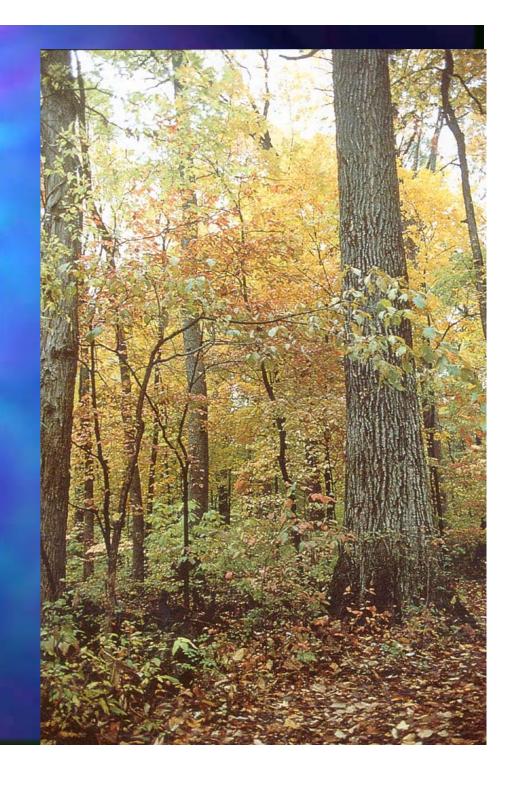
Introduction To Tree Identification

Rob Rocks
Service Forester
DEP Division Of Forestry

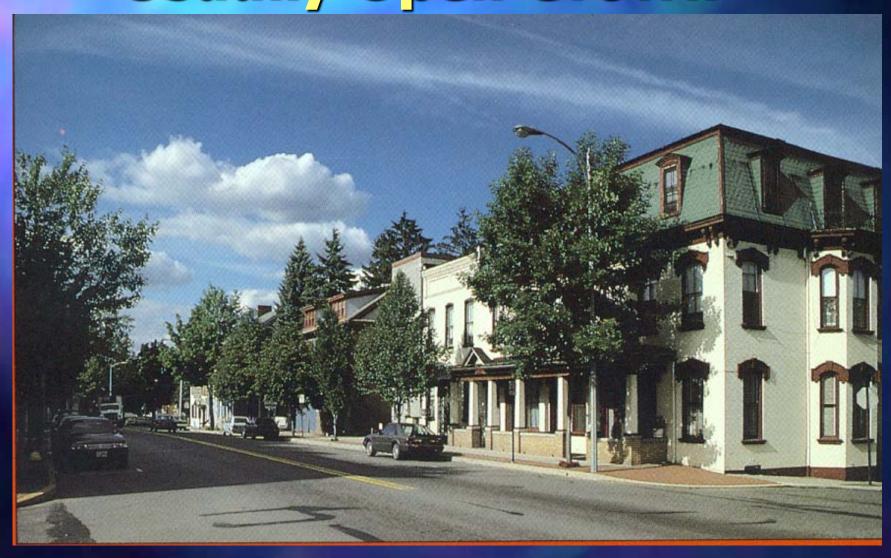
Special Thanks to Jeff Ward For some of the photos

Trees

Evolved In A Forest Community And Are Naturally Self Pruning



Landscape Trees Are Usually Open Grown



OPEN GROWN TREES MAY APPEAR DIFFERENT THAN FOREST GROWN TREES





BASIC INFORMATION NEEDED FOR A TREE INVENTORY, ALONG WITH TREE SIZE, CONDITION & LOCATION

DIAGNOSIS & TREATMENT OF INSECT & DISEASE PROBLEMS

SPECIFYING APPROPRIATE SPECIMENS
FOR DIFFERENT LOCATIONS

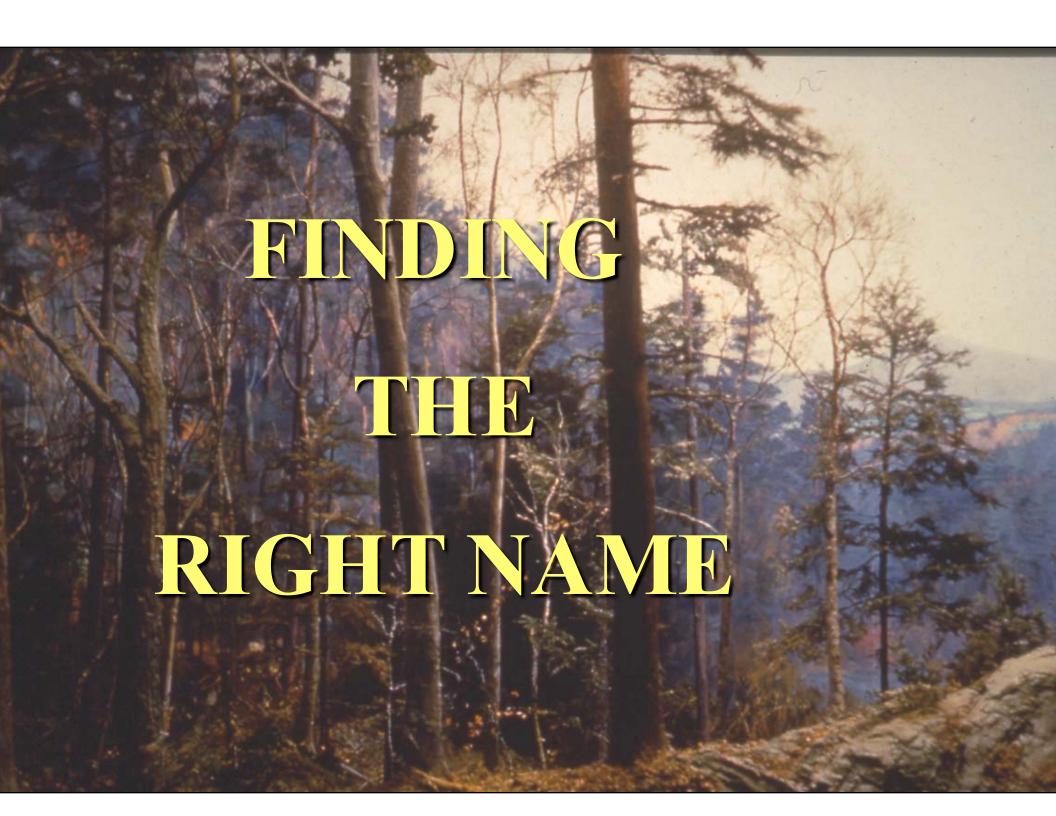












BOTANICAL GARDENS ARBORETUMS INTERNET BOOKS, PUBLICATIONS & FIELD GUIDES



Written tools that are specifically designed to identify and name an unknown organism



Ask you to answer questions or make observations about the tree you are trying to identify

FIRST QUESTION:

DOES THE TREE HAVE EVERGREEN OR DECIDUOUS LEAVES?





EYERGREEN LEAVES AND NEEDLES HAVE A THICK CUTICLE AND SMALL, THICK WALLED EPIDERMAL CELLS





DECIDUOUS Hardwoods Have broad leaves



Consisting of Blades With Several Layers of Different Cells (Tissues) and a Petiole (Stalk)

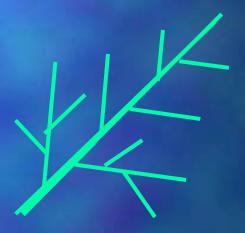
IF DECIDUOUS:

WHAT IS THE LEAF AND STEM ARRANGEMENT?

Twig and Leaf Arrangements

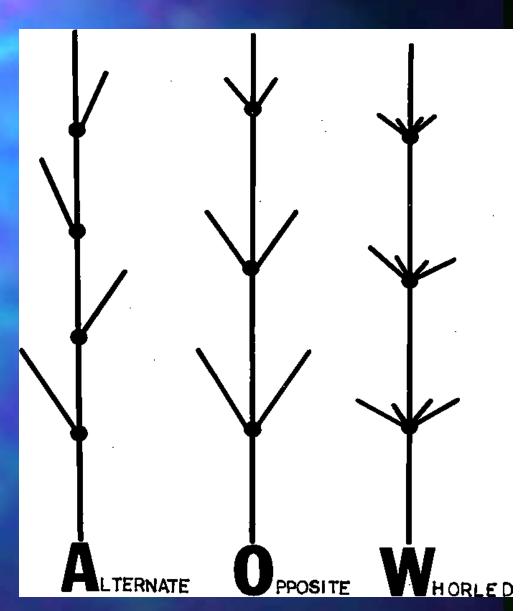


Opposite

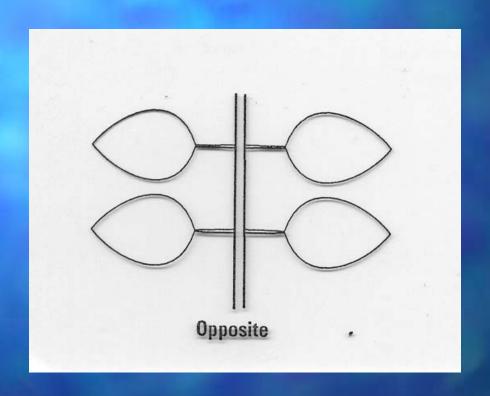


Alternate

THE POSITION OF MERISTEMIATIC NODES DETERMINE BRANCHING & LEAFING PATTERNS



IS THE ARRANGEMENT OPPOSITE?



TREES WITH LEAVES, BUDS OR BRANCHES ARRANGED OPPOSITELY MAD-CAT-HORSE

MAPLE

A ASH

D DOGWOOD

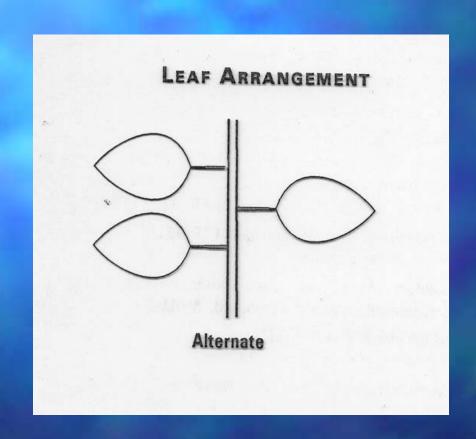


CAT CATALPA (OPPOSITE OR WHORLED)

HORSE HORSECHESTNUT

ALL THE RESTARE ALTERNATE

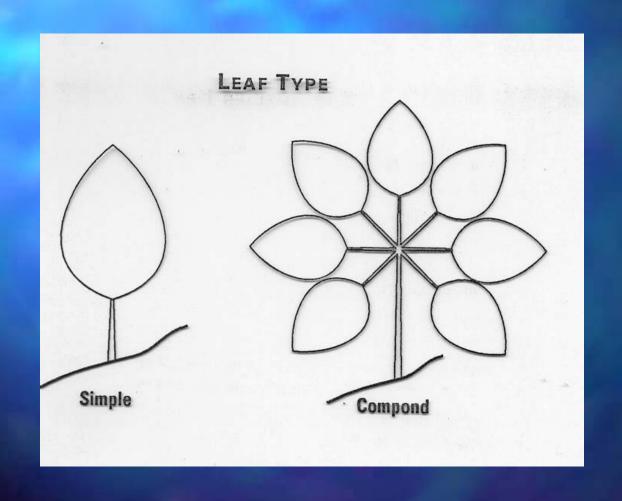
IS THE ARRANGEMENT ALTERNATE?



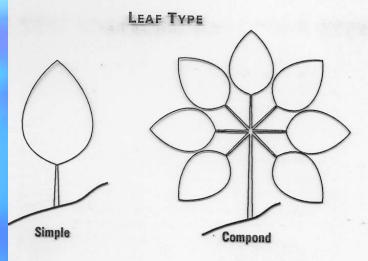
KINDS OF LEAVES



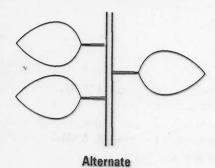
SIMPLE Versus COMPOUND

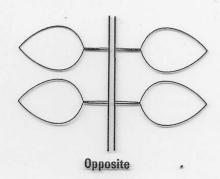


LEAF TYPES

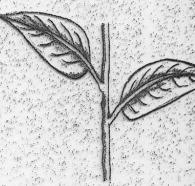


LEAF ARRANGEMENT





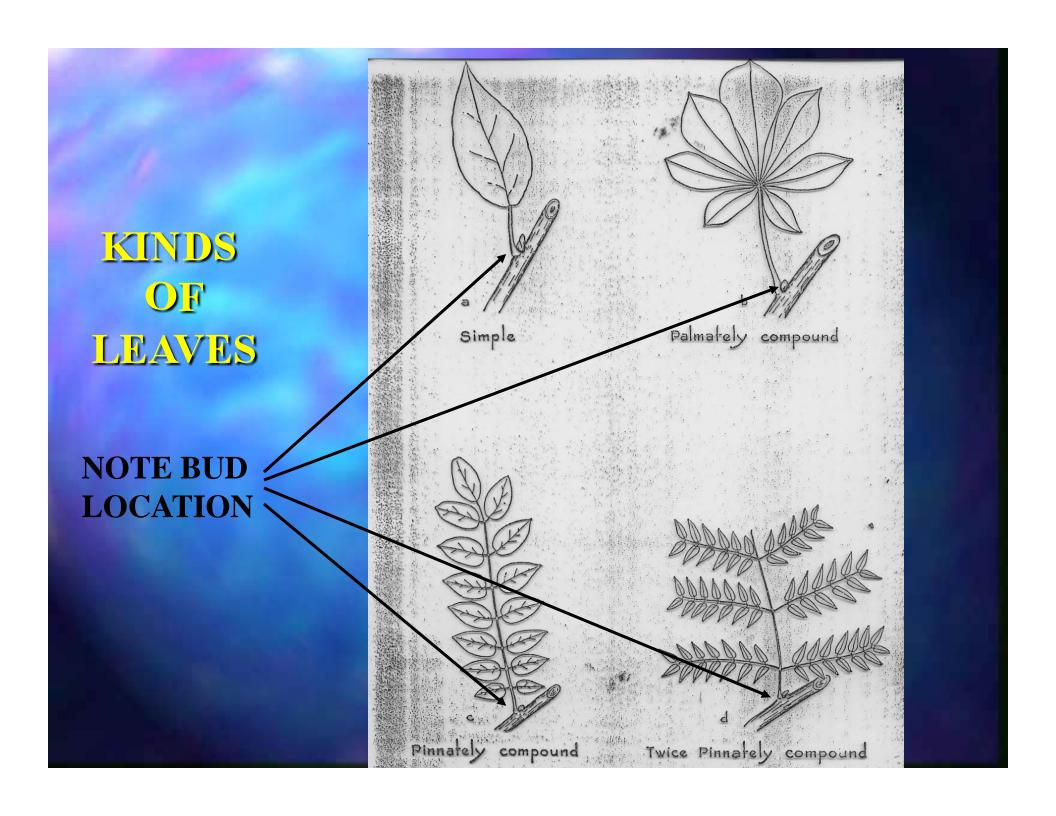




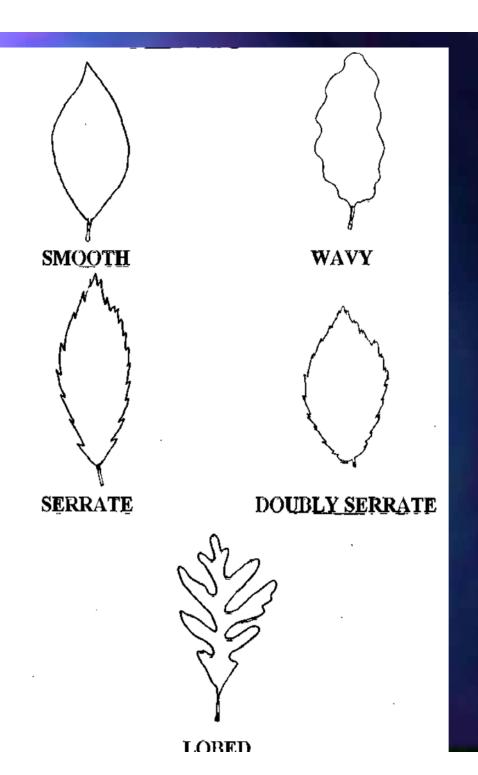
ALTERNATE



WHORLED



LEAF MARGINS



FLOWERS

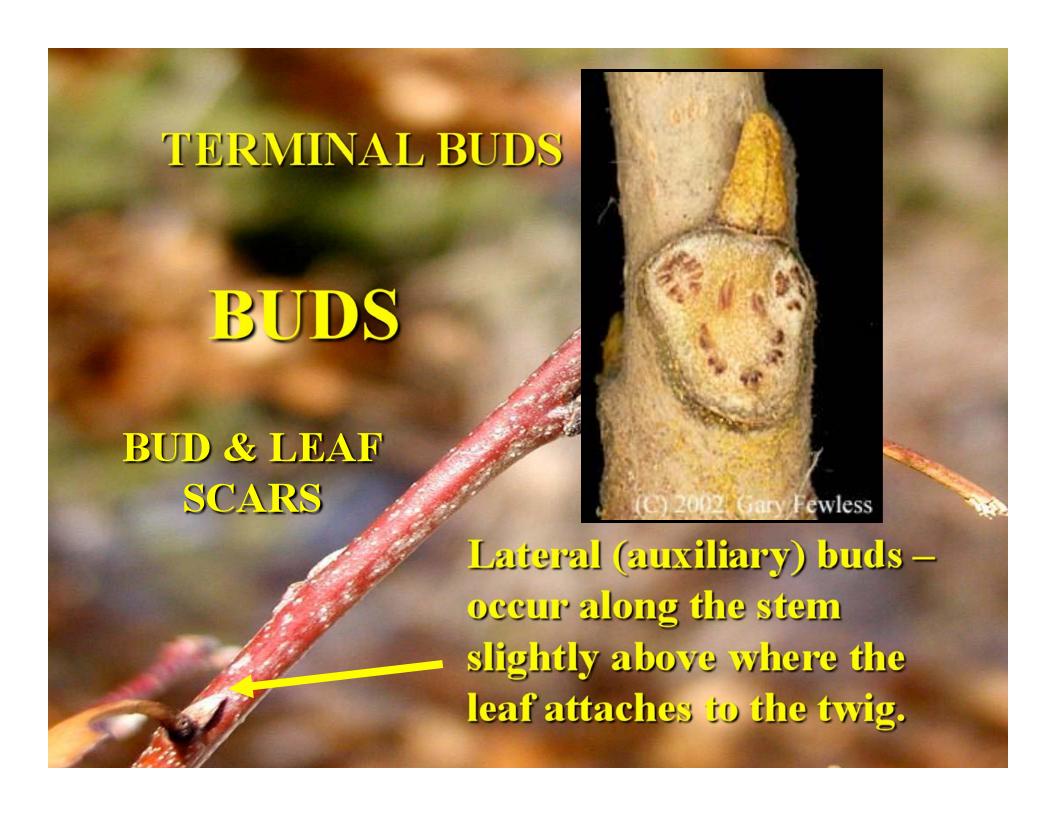


FRUIT, NUTS & SEEDS



TWIGS











Decurrent tree



Excurrent tree

CROWN SHAPE

BRANCHING PATTERN WILL DETERMINE BASIC CROWN SHAPES



FIELD ID TOOLS

FIELD GUIDES, ID BOOKS, KEYS

PLASTIC BAGS FOR SPECIMENS

HAND LENS

RULER

NOTEBOOK

BINOCULARS

