



TREES



What are Trees?

Woody plants that have well-developed stems and that usually are more than 12 feet tall at maturity.

(US Forest Service)

Woody plants with an erect perennial trunk at least 3 inches in diameter at breast height, a definitely formed crown of foliage, and a height of at least 13 feet.

(National Audubon Society Field Guide to Trees)

Woody plants that produce one main trunk and a more or less distinct and elevated head (height of 15 feet or more).

(The Virginia Master Gardener Handbook)

Virginia loses 16,000 acres of forest land each year, mostly to development.



So what?







Healthy people: 100 trees remove 53 tons of carbon dioxide and 430 pounds of other air pollutants per year.

Healthy communities: Tree-filled neighborhoods lower levels of domestic violence and are safer and more sociable.

Healthy environment: One hundred mature trees catch about 139,000 gallons of rainwater per year.

Homeowner savings: Strategically placed trees save up to 56 percent on annual air-conditioning costs. Evergreens that block winter winds can save 3 percent on heating.

Better business: Consumers shop more frequently and longer in tree-lined commercial areas and are willing to spend more.

Higher property values: Each large front yard tree adds to a home's sale price.

"Forest land loss and fragmentation ... threaten the scenic beauty of Virginia's natural landscape, which delights residents and attracts millions of tourists each year."

"Common Native Trees of Virginia" Virginia Department of Forestry

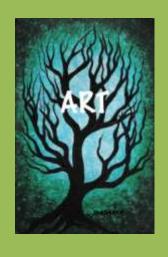


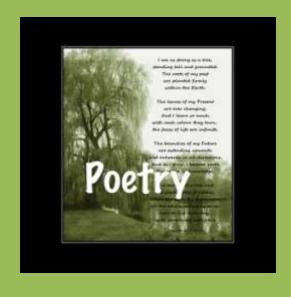




TREES ARE IMBEDDED IN OUR CULTURE

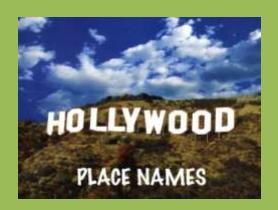












WE ALL KNOW THAT COUNTLESS PRODUCTS ARE DERIVED FROM TREES

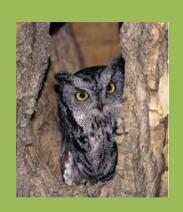


BUT WHAT ELSE ARE THEY GOOD FOR?

TREES PROVIDE FOOD AND COVER FOR WILDLIFE











TREES CLEAN THE SOIL BY STORING HARMFUL POLUTANTS OR ACTUALLY CHANGING THEM INTO LESS HARMFUL FORMS.



TREES CAN HELP PREVENT EROSION



A LOOK AT SOME OF THE NATIVE TREES COMMON TO TIDEWATER VIRGINIA





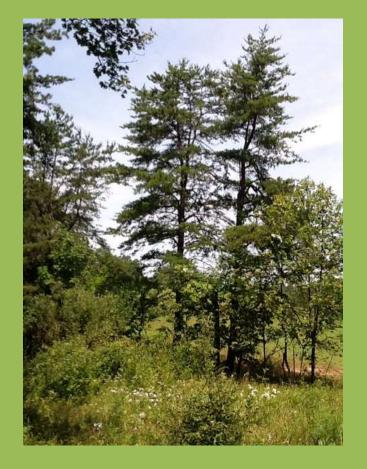




LOBLOLLY PINE
PINUS TAEDA







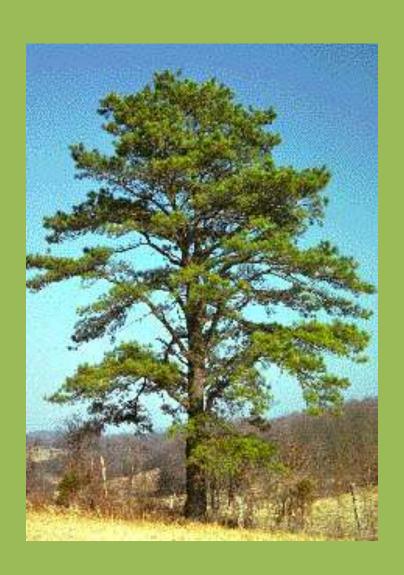
VIRGINIA PINE

Pinus virginiana











SHORTLEAF PINE

Pinus echinata















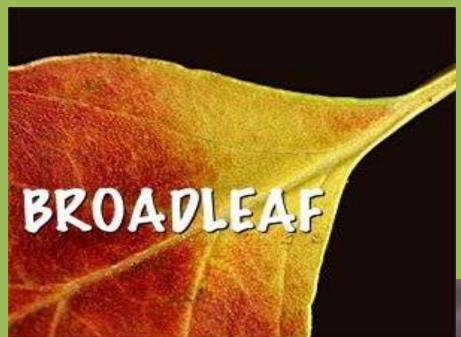




BALDCYPRESS
TAXODIUM DISTICHUM











TULIP POPLAR
Liriodendron tulipifera















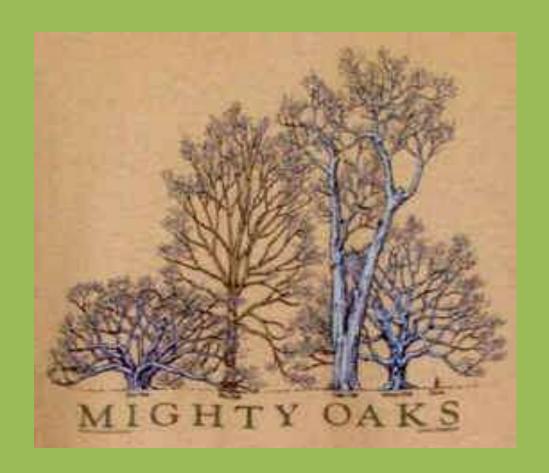




SWEETGUM *Liquidambar styraciflua*









WHITE and RED GROUPS





Compton Oak in Market Square



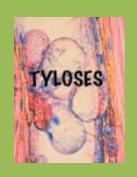
This tree is a cross-fertilization between Quercus virginiana (live oak) and Quercus lyrata (overcup oak), producing the naturally occurring, evergreen hybrid, Quercus x comptoni.





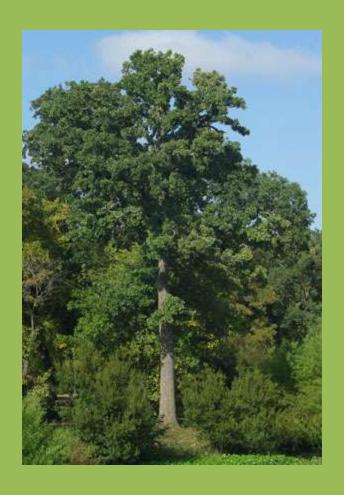






WHITE OAK

Quercus alba

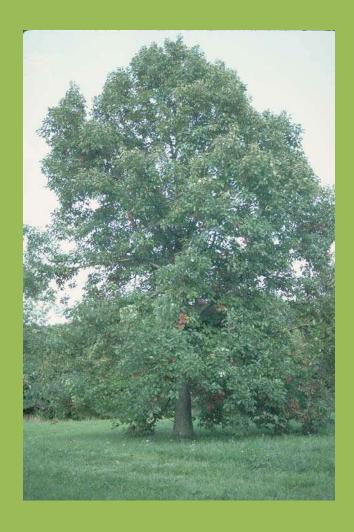


POST OAK *Quercus stellata*













SWAMP CHESTNUT OAK

Quercus michauxii



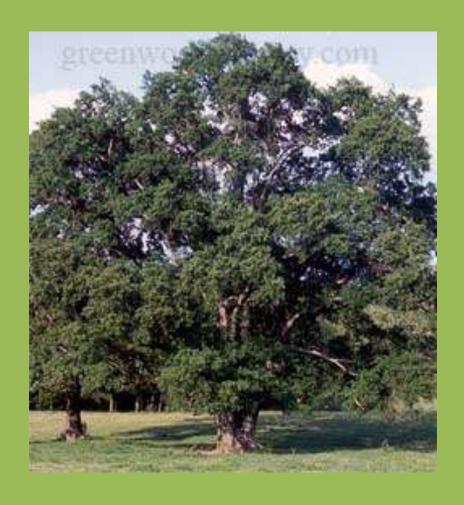








LIVE OAK *Quercus virginiana*



WATER OAK

Quercus Nigra





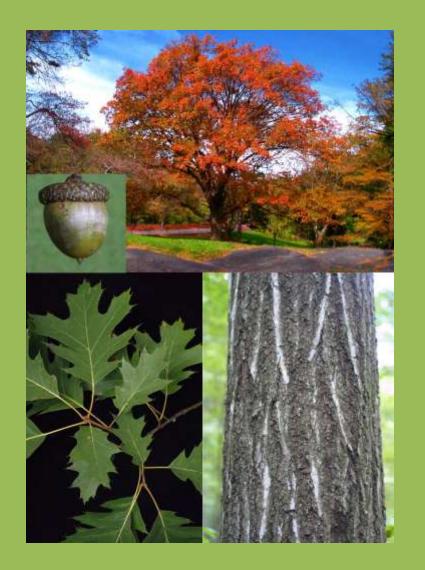






SOUTHERN RED OAK

Quercus falcata





NORTHERN RED OAK

Quercus rubra







WILLOW OAK

Quercus phellos



SYCAMORE

Platanus occidentalis









RED MAPLE *Acer rubrum*









BLACK WILLOW

Salix nigra







BLACK WALNUT

Juglans nigra





HICKORIES Carya



MOCKERNUT HICKORY
C. alba



BITTERNUT HICKORY

C. cordiformus



PIGNUT HICKORY
C. glabra





RIVER BIRCH

Betula nigra





RED MULBERRY

Morus rubra









SWEETBAY Magnolia virginiana

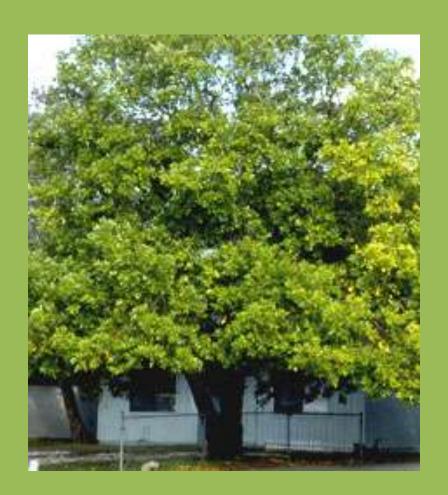














REDBAY

Persea borbonia





SASSAFRAS Sassafras albidum

















BLACK CHERRY

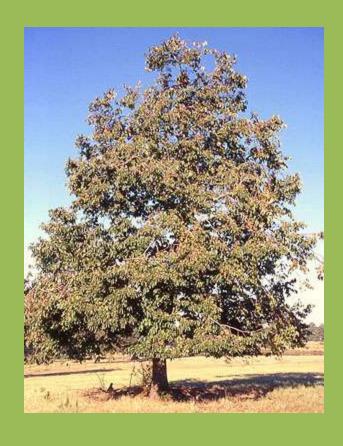
Prunus serotina



















COMMON PERSIMMON

Diospyros virginiana



ASHES *Fraxinus*



WHITE ASH

F. americana

(upland)

GREEN ASH

F. Pennsylvanica

(lowland)







WAX MYRTLE *Myrica cerifera*











DOGWOOD *Cornus florida*







EASTERN REDBUD

Cercis canadensis











IRONWOOD *Carpinus caroliniana*



AMERICAN HOLLY *llex opaca*









PAWPAW
ASIMINA TRILOBA







SOURWOOD

Oxydendrum arboreum







DEVIL'S WALKINGSTICK *Aralia spinosa*



THINGS TO CONSIDER WHEN CHOOSING A TREE TO PLANT



LOCATION, LOCATION !









PROPER HABITAT



WET OR DRY SOIL?



UPLAND OR LOWLAND ?



SANDY OR LOAMY?



SALT -TOLERANT?

SHADY OR SUNNY?

GO NATIVE OR NOT?





EASTERN REDBUD

MIMOSA

AVOID MONOCULTURES – ENCOURAGE DIVERSITY







Effects of the wooly adelgid on the eastern hemlock population











SOUTHERN PINE BEETLE

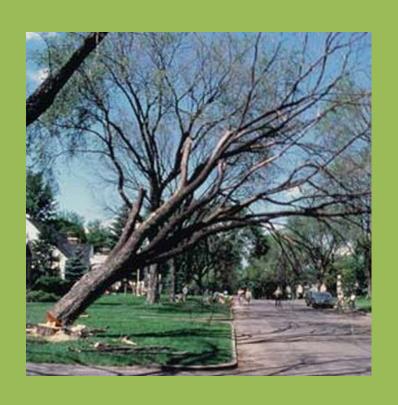




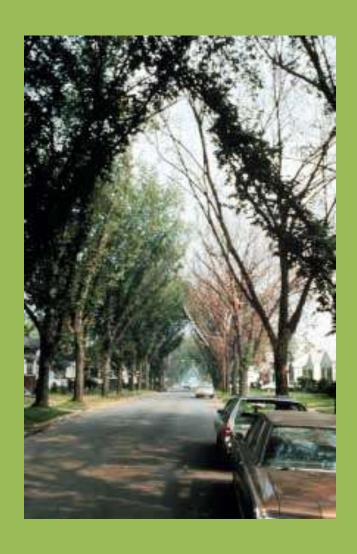




EMERALD ASH BORER









Characteristics of Invasive Trees

- Rapid growth and maturity
- Prolific seed dispersal and/or ability to spread vegetatively
- Few or no natural predators or diseases
- Traits that limit competition from other plants

Native to China







TREE-OF-HEAVEN

Ailanthus altissima
The tree that "grows in Brooklyn"



Mimosa or Silktree *Albizia julibrissin*

Native from Iran to China













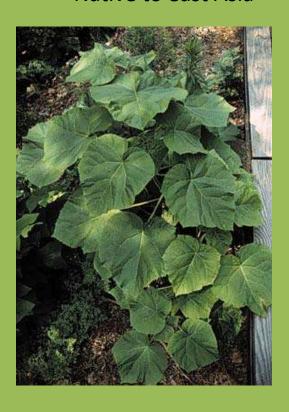
Chinaberry, Pride-of-India, Persian Lilac, or Bead-tree

Melia azedarach





Native to east Asia



Princess Tree, Royal Paulownia or Empress Tree

Paulownia tomentosa





Native to continental Europe



NORWAY MAPLE *Acer platanoides*

Native to Europe and Asia





WHITE POPLAR

Populus alba



Good Reference Available through dof.virginia.gov

