

Tree Identification 4-H Project



Name		Club	
County		_ Address	
Age	Years in 4-H	Date project completed	

Objectives:

- To learn how to identify our more important forest trees.
- To learn how to build a plant press or display box.
- To learn how to collect leaves so they can be mounted and kept for the future.
- To build self-esteem by successfully completing a project.

Contents

West Virginia Forests	1
Project Information	2
A Tree	3
Collecting and Mounting Leaves, Twigs, Seeds, or Fruit	5
Key to Trees	8
Key to West Virginia Forest Trees	9
Leaves	20
Leaf Record Sheet I	33
Leaf Record Sheet II	34
Fruit/Seed Record Sheet	35
Project Checklist	36
Project Evaluation	37
Score Sheet	Inside Back Cover

Written by

William N. Grafton Extension Wildlife Specialist and Associate Professor

West Virginia Forests

West Virginia was almost all covered by forests when the first European explorers began searching for adventure and wealth in the late 1600s. By the early 1900s most of West Virginia had been timbered. More than half of the land was cleared for farms, town, cities, and roads.

The number of trees of different species has decreased greatly over the past 200 years. The American Chestnut was eliminated by a disease brought in from China. Only root sprouts remain of this valuable tree of our early forests. Trees with valuable wood, such as black walnut, white oak, and red spruce were over-cut in early timbering operations. Red spruce once grew in pure stands on more than a million acres of West Virginia mountaintops. Heavy cutting, wildfires, and insect attacks killed so many spruce that we now have less than 100,000 acres of them.

The most common forest type in West Virginia is the *central hardwoods*, covering the western half of the state. Common trees in this forest type are elms, poplar, maples, oaks, basswood, sycamore, and ash. The *northern* hardwood forest type covers most of our higher elevations. Common trees in the northern hardwoods are maples, birches, beech, black cherry, hemlock, and red spruce. The eastern ridge and valley portion of West Virginia is covered with the oak-pine forest type. Common trees in this area are black, scarlet, and chestnut oaks, and Virginia and white pines.

Project Information

Nearly 105 trees can be found quite easily in West Virginia forests. Another dozen species are rare. Twenty or so trees are commonly planted as shade trees or forest plantations.

This project will help you identify our more important *forest* trees.

Trees can be identified by leaves, twigs, bark, flowers, fruits/seeds, wood, shape, and habitat. Leaves are the easiest characteristic for identification but are useful only on deciduous trees from late spring to early autumn.

You will complete the following:

T 7	1
Vear	
rear	1

- A. Collect, press, mount, and label leaves from 20 trees
- B. Fill in record sheet (page 33)
- C. Build a plant press (optional)

Year 2 or 3

- A. Collect, press, mount, and label leaves from 20 different trees
- B. Fill in record sheet (page 34)

or

- A. Collect, label, and display 20 fruits/seeds
- B. Fill in record sheet (page 35)
- C. Build a fruit/seed display box (optional)

A Tree

Trees are different from woody shrubs. Trees normally have a single stem and are more than 20 feet tall when full grown. Even seedlings of trees should have a single stem. Shrubs normally have two or more stems and are less than 20 feet tall when mature.

Leaves

Leaf arrangement, type, shape, margin, size, and hairiness are common characteristics used to identify trees. *Leaf arrangement* refers to how leaves are attached to the woody stem. Maples, ashs, dogwoods, buckeyes, honeysuckles, and viburnums have opposite (pairs) leaves. Catalpas have leaves that are whorled (three leaves in a circle around the stem). Other trees, such as oaks, birches, hickories, and poplars, have alternate leaf patterns. *See Figure 1*.

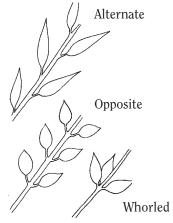


Figure 1

Leaf Types

A leaf with a single blade is termed a *simple leaf*. But the leaves of some trees consist of three or more blades attached to a common stalk. Leaves of this type are said to be *compound*, and the individual blades are called *leaflets*. If the leaflets are attached along the sides of the stalk, the leaf is called *pinnately compound*. On the other hand, if a number of leaflets radiate from the top of the stalk, the leaf is *palmately compound*. *See Figure 2*.

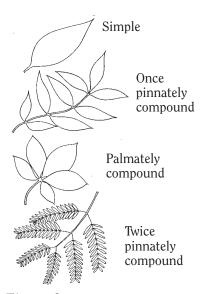
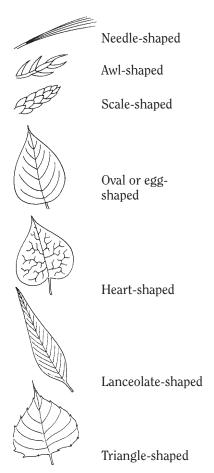


Figure 2



Leaf Shapes

The shape of a leaf is usually characteristic of a species. Figure 3 shows common leaf shapes.

Figure 3

Smooth Entire Teeth Serrate Double Teeth Wavy Lobed

Figure 4

Leaf Margins

The edge of a leaf blade is called the margin. Figure 4 shows common types of leaf margins.

Twigs and Buds

Twigs are an excellent way of identifying trees in the winter. The most obvious features of twigs are their buds, leaf scars, stipule scars, and pith. *See Figure 5*.

Collecting and Mounting Leaves, Twigs, Seeds, or Fruit

Building a Plant Press (Optional)

Before you collect any leaves and twigs for mounting, build a plant press. A plant press is the apparatus used to dry plant specimens under pressure. Collecting and mounting leaves and twigs will be more enjoyable if you have a plant press for drying them properly. Making a plant press is an easy job. Just follow the directions and complete each step to the best of your ability.

Buy or cut the following:

- 1. Four pieces of wood 18 inches long, 1-1/2 inches wide, and about 3/8-inch thick.
- 2. Sixteen pieces of wood 12 inches long, 1 inch wide and 1/4-inch thick.

Also, have these materials and tools on hand:

- 1. Thirty-two small nails or small 1/2-inch screws.
- 2. Hammer, screw driver, and square.

Make two frames out of the slats. Use half of the material for each frame. They should look like the one in Figure 6.

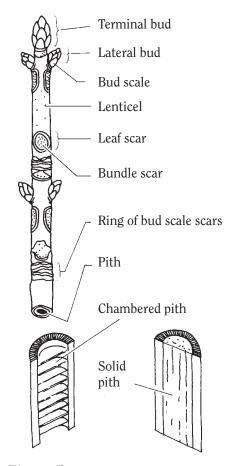


Figure 5

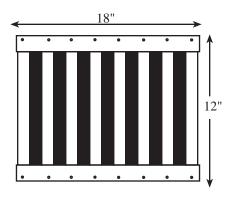


Figure 6

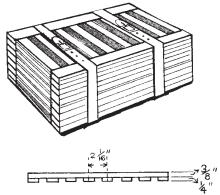


Figure 7

To make the press (Figure 7) ready for use, get the following:

- 1. Two buckle straps or pieces of rope, each about 4 feet long.
- 2. At least 20 newspaper sheets for holding plant specimens.
- 3. Several pieces of cardboard 12 inches by 18 inches in size.

Collecting and Pressing the Leaves and Twigs

The only equipment needed is a small knife, small pad of note paper, roll of masking tape, pencil, and white kitchen-sized garbage bag. While in the field, carry the specimens in the garbage bag. As the sample is collected, add a sheet of note paper with the information that you want to remember, such as the place and date of collection and notes about the surroundings. Masking tape should be attached to each leaf stalk to provide name, opposite/alternate information, or any other information that will help you with identification and the final label.

Select only good average samples. Small seedlings or new growth are not typical of the particular tree. Collect three or four leaves from each tree to allow for any damage in drying or mounting.

Place the samples in the plant press within a few hours after they are collected. Put the leaf or twig between several sheets of newspaper — be sure to arrange the leaves and twigs in exactly the way they are to appear on the display sheet. Place a piece of cardboard between each sample being pressed. Keep this up until the plant press is packed. Wrap the press tightly with straps or pieces of rope.

Specimens usually need 10 days in the press to dry properly. On about the fourth day, replace the newspapers with dry ones. If you do not, the samples may become discolored or rotted by mold.

If a press cannot be built, the leaves can be dried and flattened by placing heavy objects on top of the pile of newspapers, plants, and cardboard. Bricks, flat rocks, books, etc., will do the trick.

Keep the press with plants in a sunny spot where there is good air circulation.

Mounting the Leaves and Twigs in a Display Book

When the sample is thoroughly dried, mount it on a page of the display book. The paper used for mounting should be stiff enough not to buckle when handled and should be at least 12 inches by 16 inches in size. (Do not use sheets larger than 16 inches by 20 inches.) Mount the leaves, twigs, seeds, or fruit of each tree on separate sheets.

Use paste, transparent tape, or gummed tape to fasten leaves and twigs to the paper. Small seeds are displayed best in transparent envelopes pasted to the mounting paper.

The mounting sheet label is usually placed in the lower right-hand corner of the sheet. The information placed on this label will increase in value over the years, so be thorough. Include the common name, the scientific name, date and place of collection, habitat, and the commercial and farm uses of the tree.

The last step is to bind the plant mountings into a book. Print your name, club, and year of membership on the cover.

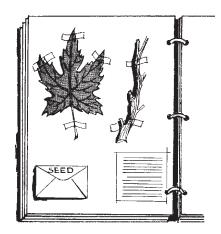
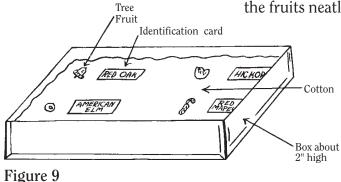


Figure 8

Constructing a Fruit Display Box

Since tree fruits are irregular in size and do not lend themselves to simple mounting techniques, it is desirable to build a display box in which all of them may be kept. A container can easily be made from a shoe box, or a box of similar size, cut to a height of about 2 inches. You may cover it with cellophane or a similar material. Fill the box with cotton and arrange the fruits neatly in it. Any number of fruits may be put



in the box as long as they are arranged neatly and are not too crowded. Place a name tag near each specimen to identify it. Your box may look more attractive if you cover it with cloth, wallpaper, or similar material. Reinforcing the corners with tape will make it stronger.

Key to Trees

A "key" is a scientific way of making choices to identify plants, animals, birds, insects, etc. The tree key for this project primarily uses twigs and leaves to identify a tree.

Use the key the same way as a road map. Both of the number 1s on the left margin represent forks in a road. You will choose the characteristics that fit your twig/leaf sample. The numbers on the right tell you which set of left numbers to go to for your next decision.

You keep moving left to right, down, and left to right until you finally reach the tree you are trying to identify. Its name will appear on the right.

You then can look in the illustrations to make sure your identification is correct. Although the key looks complicated, a few practice tries will help you learn to use it.

Key to West Virginia Forest Trees

1.		scale-shaped leaves and bearing cones
1.	De	ciduous - broadleaf hardwoods that mostly lose leaves in winter 15
	2.	Leaves are needles
	2.	Leaves scale-like or awl-shaped
3.	Ne	edles in clusters or bundles (Pines and Larches)
3.	Ea	ch single needle attached to twig (Spruce, Fir and Hemlock)
	4.	Needles in clusters of 8-30 on short spur twigs, needles drop in autumn, cones upright
	4.	Needles in bundles of 2-5 (Pines)
5.	Ne	edles in bundles of 5, 3-5" long
5.	Ne	edles in bundles of 2 and 36
	6.	Needles in bundles of 3, 3-5" long
	6.	Needles in bundles of 2 or 3, 3-5" long
	6.	Needles in bundles of 2
7.	Ne	edles 5-7" long, dark green, brittle when bent in circle
7.	Ne	edles 1-4" long
	8.	Needles 2-4" long, blue-green; cones large, in clusters and covered with sharp prickles
	8.	Needles 1-3" long, twisted
9.		rigs often whitish, old cones hang on trees and vered with sharp curved prickles Virginia or Scrub Pine
9.	Tw	rigs brownish, cones fall each year and have no prickles Scotch or Scots Pine

	10.	Needles 4-sided, stiff and sharp-pointed (Spruces)
	10.	Needles flat and flexible with 2 white lines beneath
11.	Nee	dles more than l'' long, green or blue
11.	Nee	dles l" long or less
	12.	Needles ¹ / ₂ -1" long, twigs not hairy, hanging branchlets
	12.	Needles 1/2" long and spread from all sides of twig, twig hairy Red Spruce
13.	Nee	dles 1 - $1^{1}/_{2}$ " long, fallen needles leave a circular scar
13.	Nee	dles ½-¾" long, fallen needles leave a pegEastern Hemlock
	14.	New growth needles awl-shaped, old growth scale-like and twigs 4-sided Eastern Red Cedar
	14.	Leaves and twigs flattened and scale-like
15.	Lea	ves compound
15.	Leav	ves simple
	16.	Leaves alternate
	16.	Leaves opposite
17.	Lea	ves 2 or 3 times pinnately compound
17.	Lea	ves 1 time pinnately compound
	18.	Leaves mostly 2 times (sometimes 1 time) pinnately compound, leaflets small (1/2-1" long) with rounded tips
	18.	Leaves mostly 2 times (sometimes 3 times) pinnately compound, leaflets over 1 inch long, leaf tip pointed
19.		ves mostly 2 times pinnate, twigs ge and without thorns

19.	Leaves 2 or 3 times pinnately compound, twigs covered with thorns	Club
	20. Leaflets 11-41	26
	20. Leaflets 5-11 (Hickories)	21
21.	Leaflets 5-11, bud with 2 long flat yellow scales	ckory
21.	Leaflets 5-9, buds large, round, tan, or brownish	22
	22. Leaflets 5-7	23
	22. Leaflets 7-9	25
23.	Leaflets 7Oval Pignut Hi	ckory
23.	Leaflets 5	24
	24. End leaflet slightly larger than side leaflets, husk on pear-shaped nut not splitting to base, bark not shaggy Pignut Hi	ckory
	24. End leaflet much larger than side leaflets, husk on round nut splits freely to base, bark on older stems shaggy Shagbark Hi	ckory
25.	Leaf 8-14" long, crushed leaves fragrant, bark on older stems not shaggy	ckory
25.	Leaf 14-20" long, crushed leaves not fragrant, bark on older stems shaggy	ckory
	26. Leaflets 7-21, egg-shaped, smooth margin and round tips Black L	ocust
	26. Leaflets lance-shaped with sharp tips	27
27.	Leaves 1-2" long, leaflets 13-41 with smooth margin except for a lobe at the base of each, crushed leaflets with foul odor	eaven
27.	Leaflets with small teeth on margin	28
	28. Leaflets and twigs very hairy with milky sapStaghorn S	umac
	28. Twigs with no milky sap	29

29.	Lea	ves 5-10" long, buds sticky	American Mountain-Ash
29.	Lea	ves 12-24" long, buds white and wooly	30
	30.	Terminal leaflet often missing, pith light yellow	Black Walnut
	30.	Terminal leaflet present, pith chocolate brown	White Walnut
31.	Lea	ves palmately compound	32
31.	Lea	ves pinnately compound	33
	32.	Broken twig with foul odor, spiny fruit husk	Ohio Buckeye
	32.	Broken twig with no foul odor, yellow or smooth fruit husk	Sweet Buckeye
33.	Lea	flets 3-5, notched or lobed	Boxelder or Ashleaf Maple
33.	Lea	flets 5-13, margin with small teeth or smooth (Ashes)	34
	34.	Leaflets not stalked	Black Ash
	34.	Leaflets on a short stalk	35
35.	Lea	flets hairless	Green Ash
35.	Lea	flets with white hairs underneath	White Ash
	36.	Opposite leaves and twigs	37
	36.	Alternate leaves and twigs	47
	36.	Whorled leaves and twigs	105
37.	Lob	ed leaf margin	38
37.	Unl	obed or toothed leaf margin	43
	38.	U-shaped notches	39
	38.	V-shaped notches	41
39	Lea	f white, silvery underneath, deeply cut notches	Silver Manle

39.	Lea	pale or yellow-green underneath
	40.	Leaf with 5 lobes, hairless
	40.	Leaf with 3 drooping lobes, hairy underneathBlack Sugar Maple
41.	Lea	pale green to whitish underneath, 3-5 lobes
41.	Lea	green underneath, 3 lobes
	42.	Coarse teeth on leaf margin, bark brownish Mountain Maple
	42.	Fine teeth on leaf margin, greenish bark with white stripes
43.	Lea	ves heart-shaped44
43.	Lea	ves egg-shaped
	44.	Large leaf 6-15" long, hairy upper and soft velvety underneath
	44.	Large leaf, hairless upper and hairy underneath, fruit a long bean-like pod
45.	Leaf with long pointed tip and no odor when crushed	
45.		with short pointed tip foul odor when crushed Southern Catalpa or Cigartree or Indian Bean
	46.	Smooth leaf margin, leaf veins parallel to the leaf edge and curve to the leaf tip Flowering Dogwood
	46.	Small sharp teeth on leaf margin
47.	Lea	ves with lobes
47.	Lea	ves unlobed
	48.	Small reddish brown buds clustered at the end of twigs, pith star-shaped, fruit an acorn (Oaks)
	48.	Buds not clustered at end of twigs, pith round

49.	Leaf veins without a bristle tip (White Oaks)	50
49.	Leaf vein with a bristle tip (Black Oaks)	55
	50. Leaf leathery and "cross-shaped"	ost Oak
	50. Leaf not "cross-shaped"	51
51.	Leaf with a pair of deep-cut U-shaped notches just below the midpoint	cup Oak
51.	Leaf with no pair of deep-cut notches	52
	52. Leaf hairless underneath	nite Oak
	52. Leaf hairy underneath	53
53.	Leaf with coarse sharp teeth Chinquapin or Yell	ow Oak
53.	Leaf with coarse rounded teeth	54
	54. 7-16 pairs of teeth	nut Oak
	54. 4-6 pairs of teeth	nite Oak
55.	Leaf hairy underneath	56
55.	Leaf hairless underneath except some with small tufts in vein joints	57
	56. Leaves of two basic shapes (3-lobed that is broadest near the tip and a 5 to 11-lobed which has a long end lobe that is usually curved) Southern Red or Span	ish Oak
	56. Leaves of variable shapes, 5-7 lobes, leathery, dark green and shiny upper	ack Oak
57.	Leaf hairlessF	Red Oak
57.	Leaf with hairy tufts in vein joints	58
	58. Openings between major lobes circular	rlet Oak
	58. Openings between major lobes U-shaped or squarish	Pin Oak

59.	Leaf margin with sm	nall teeth	64
59.	Leaf margin smooth	1	60
	60. Leaf with 2 ear-	-like lobes at the base, 10-20" long	Mountain or Fraser Magnolia
	60. Leaf base tapero	ed or flat	61
61.	Leaf tip square-like on tch, 4 lobes and h	or with a slight nairless	Tulip Tree or Yellow Poplar
61.	Leaf tip round or po	inted	62
		ent shapes (3-lobed, or oval), crushed leaves or wigs have spicy, aromatic smell	White Sassafras
	62. All leaves of the	e same basic shape	63
63.	. Leaves dense white wooly underneath		White Poplar
63.		h-like lobes and a large uds hidden in base of leaf petiole	Sycamore
	64. Thorns present	on stem, limbs, or twigs	65
	64. Thorns not pres	sent	66
65.	Leaves on thorns		
65.	Thorns leafless		Hawthorn
	66. Leaf star-shape	d	Sweetgum or Redgum
	66. Leaf shape varia	able	67
67.	Leaf with white hair	s underneath, rough upper	Red Mulberry
67.	Leaf hairless, very sh	hiny upper	White Mulberry
	(cyanide) odor a	and twigs with almond and bitter taste, bark Illy (Plums and Cherries)	69

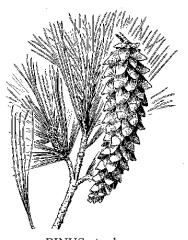
	68.	. Crushed leaves and twigs without almond odor	71
69.	Milo liml	ld almond (cyanide) odor, some nbs usually with thorns	Wild Plum
69.	Stro	rong almond odor, no thorns (Cherries)	70
	70.	. Leaf oval with a short but sharp tip, bark brown to bl	ack Wild Black Cherry
	70.	Leaf lance-shaped with long tapering tip, bark reddish brown on twigs and young stems	Fire, Pin, or Bird Cherry
71.	Bro	oken twigs with aromatic wintergreen (teaberry) odor.	72
71.	Bro	oken twigs without wintergreen odor	74
	72.	. Leaf triangle-shaped, tree of swamps and stream ban	ks River Birch
	72.	. Leaf egg-shaped	73
73.		rk on twigs and young stems black, of margin usually has teeth of one size	Black or Sweet Birch
73.		rk on twigs and young stems yellowish, of margin with big and small teeth	Yellow Birch
	74.	. Leaves thick and leathery, evergreen	75
	74.	. Leaves thin or thick, deciduous	78
75.	Lea	aves with spines on edges	American Holly
75.	Lea	aves with smooth edges	76
	76.	. Leaves rounded at base and tip	Purple Laurel
	76.	. Leaves with tapered base and pointed tip	77
77.	Lea	af 2-5" long	Mountain Laurel
		af 4-12" long Rl	
		. Leaf margin smooth	

	78.	Leaf margin with teeth
79.	Leav	ves less than 6" long
79.	Leav	ves 6-24" long
	80.	Leaves leathery
	80.	Leaves not leathery
81.	Leaf	heart-shapedRedbud
81.	Leaf	not heart-shaped
	82.	Thorns and branches and twigs, leaf with a very long pointed tip Osage-Orange
	82.	Thornless, leaf with round tips Black or Sour Gum or Black Tupelo
83.	Leaf	soft hairy underneath, bristle tip
83.	Leaf	hairless
	84.	Crushed leaf with foul, rancid odor
	84.	Crushed leaf with strong but not foul, rancid odor
85.	Leaf	hairy underneath, bud silvery
85.	Leaf	hairless underneath
	86.	Leaf base lopsided
	86.	Leaf base sides relatively even in size
87.		triangle-shaped, with many teeth, y and rough upper American Hackberry
87.	Leaf	heart- or egg-shaped (Elms and Basswoods)
	88.	Leaves heart-shaped (Basswoods)
	88.	Leaves egg-shaped (Elms)
89.	Leaf	with dense white hairs underneath

89.	Lea	f hairless or with a few tufts underneath American Basswood
	90.	Leaf rough (sandpapery) upper
	90.	Leaf smooth upper
91.	Lea	f small, 1-3" long, with small teethSiberian Elm
91.	Lea	f larger, 2-6" long, with large teeth of 2 sizesAmerican Elm
	92.	Heart-shaped leaves with 3-5 palm-like veins (Poplars)
	92.	Leaves oval or lanceolate with many feather-like veins
93.	Lea	fstalk not flattened, buds gummy and fragrant
93.	Lea	fstalk flattened
	94.	Leaf with coarse angular teeth, young leaves white and wooly
	94.	Leaves with sharp or small teeth
95.	Lea	f with coarse sharp teeth; thick, shiny upper Eastern Cottonwood
95.	Lea	f with fine teeth, 1-3" long
	96.	Leaf long and narrow (lance-shaped)
	96.	Leaf oval or egg-shaped
97.	Lea	f with large angular teeth
97.	Lea	f with small teeth
	98.	Leaf 4-10" long, thin, hairless, teeth curving inward American Chestnut
	98.	Leaf 4-7" long, thick, a few hairs on veins underneath, teeth straight
99.	Lea	f 1/2" or less in width
99	Lea	f 1-3" in width

	100. Leaf with large angular teeth, conspicuous parallel veins American Beec
	100. Leaf with small, sharp teeth
101.	Leaf tip long and sharp-pointed
101.	Leaf with short, sharp tips or rounded tip
	102. Leaf dense, hairy underneath
	102. Leaf hairless or with a few tufts underneathAmerican Hornbear
103.	Long sharp thorns on stems and branches
103.	Without thorns
	104. Bark smooth, gray with horizontal speckles
	104. Bark smooth, gray with vertical dark vertical stripes
105.	Leaf with long pointed tip and no odor when crushed
105.	Leaf with short pointed tip and foul odor when crushed Southern Catalpa or Cigartree or Indian Bea

LARIX laricina Tamarack

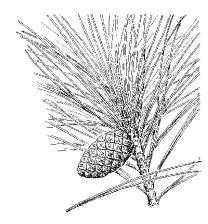


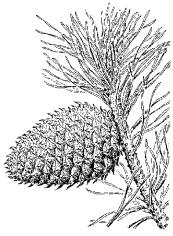




PINUS rigida Pitch Pine



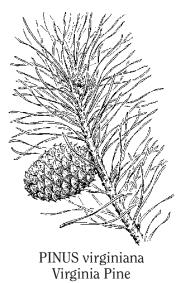


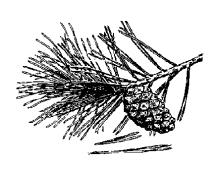


PINUS echinata Shortleaf Pine

PINUS resinosa Red Pine

PINUS pungens Table Mountain Pine

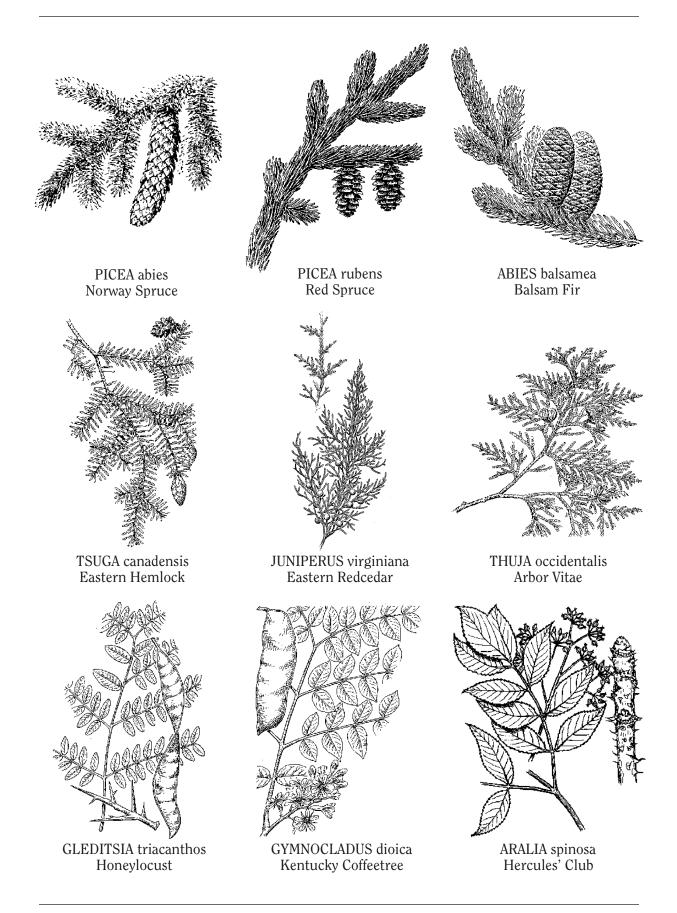


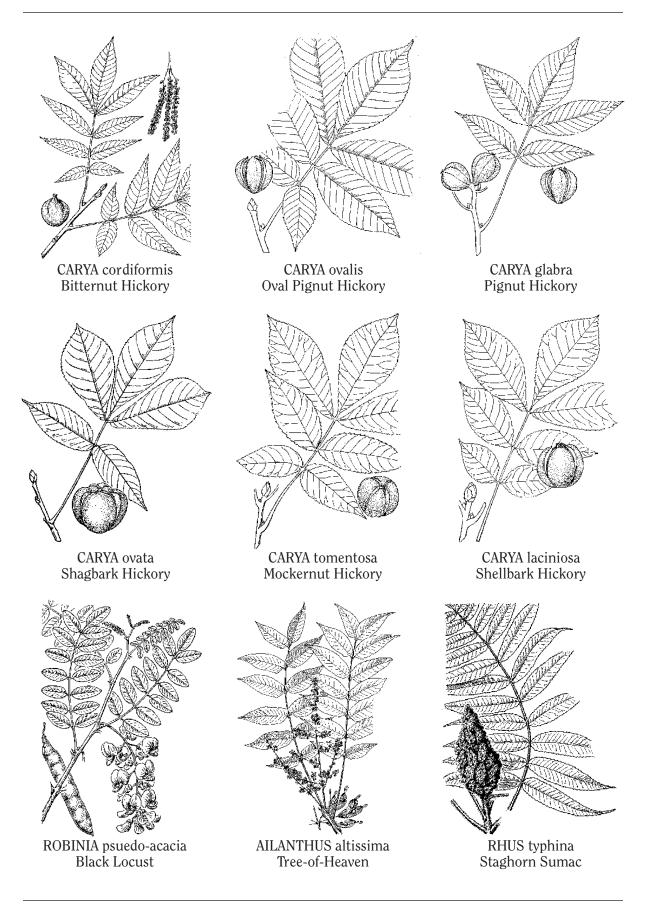




PINUS sylvestris Scotch Pine

PICEA pungens Colorado Spruce







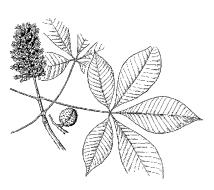
American Mountain-ash



JUGLANS nigra Black Walnut



JUGLANS cinerea White Walnut



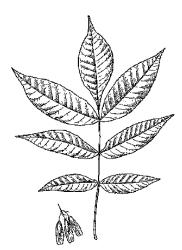
AESCULUS glabra Ohio Buckeye



AESCULUS octandra Yellow Buckeye



AESCULUS negundo Boxelder



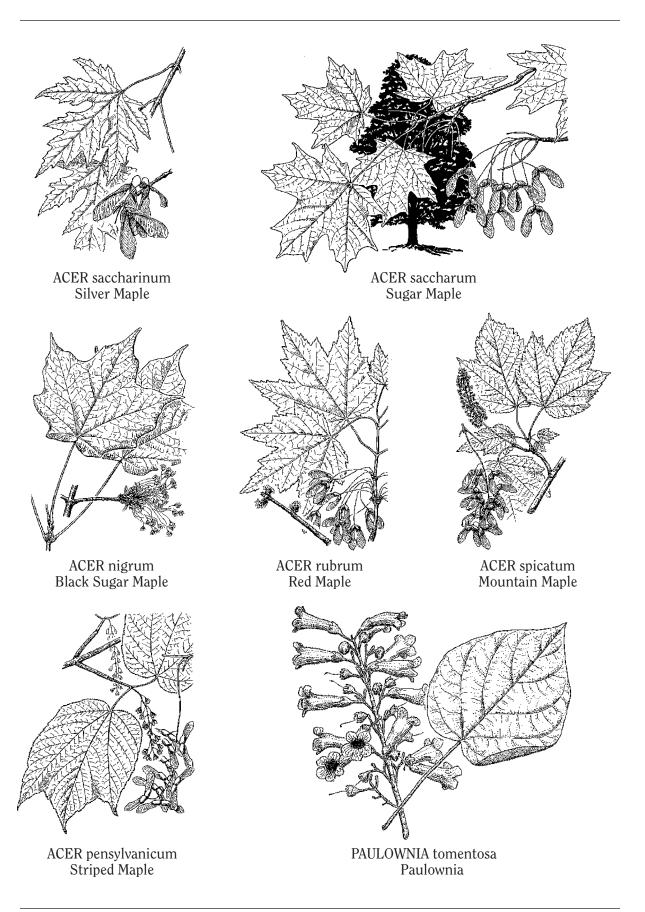
FRAXINUS nigra Black Ash

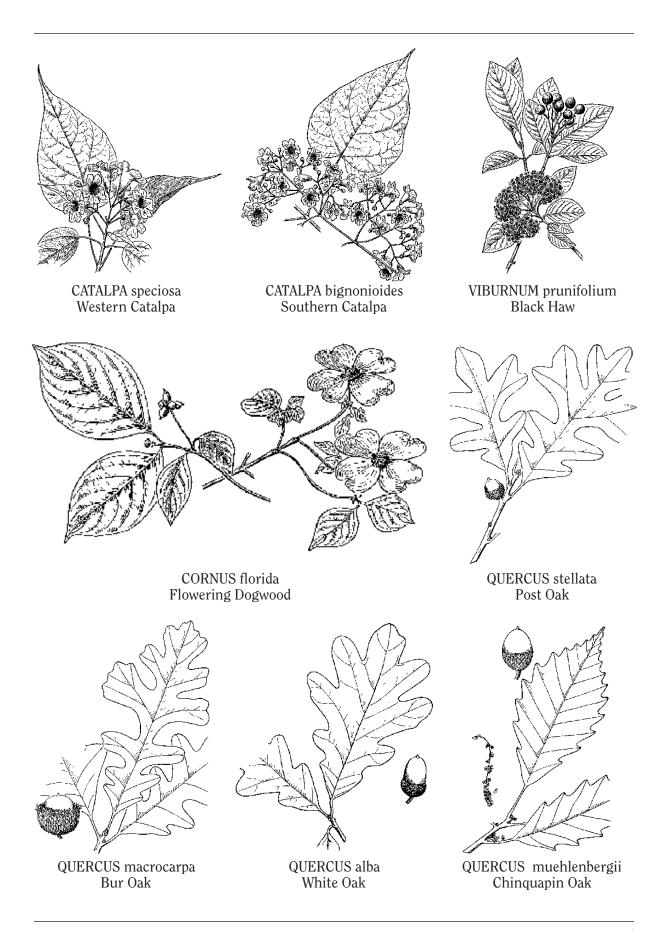


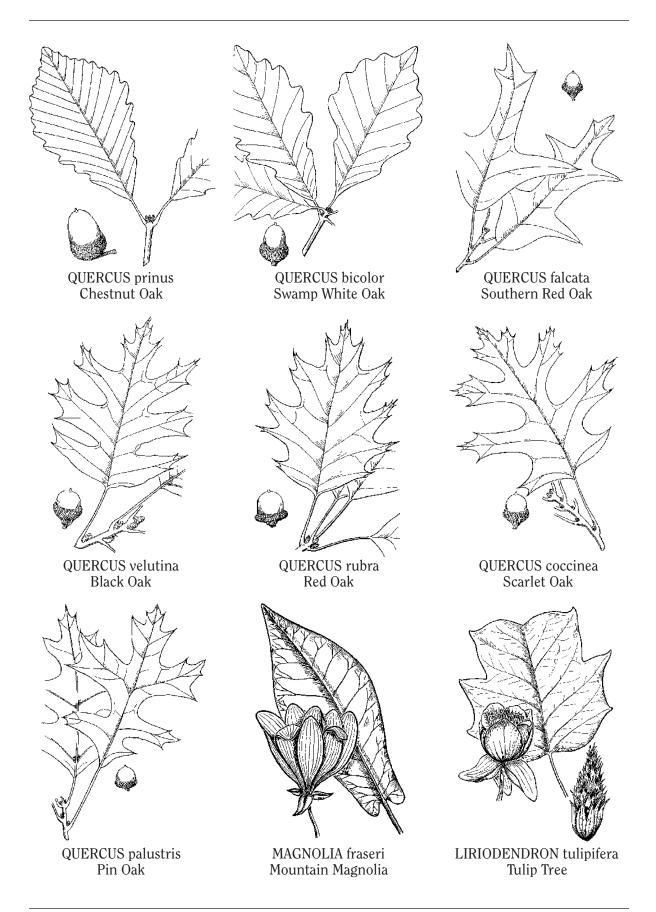
FRAXINUS pennsylvanica Green Ash



FRAXINUS americana White Ash





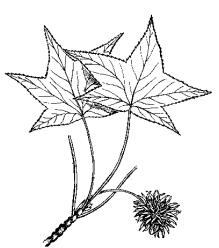




PLATANUS occidentalis Sycamore

CRATAEGUS macrosperma

Hawthorn



LIQUIDAMBAR styraciflua Sweetgum



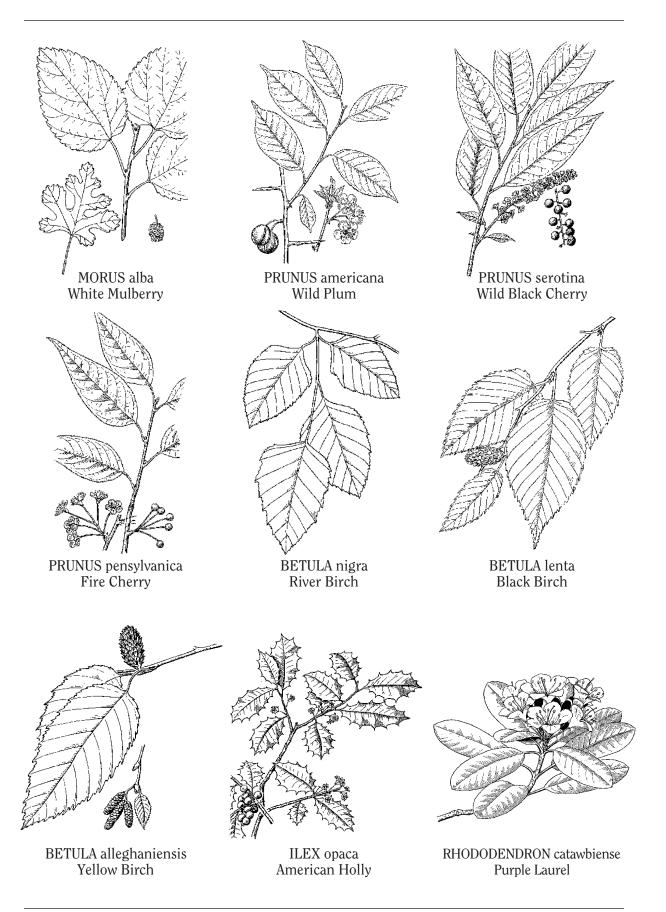
POPULUS alba White Poplar

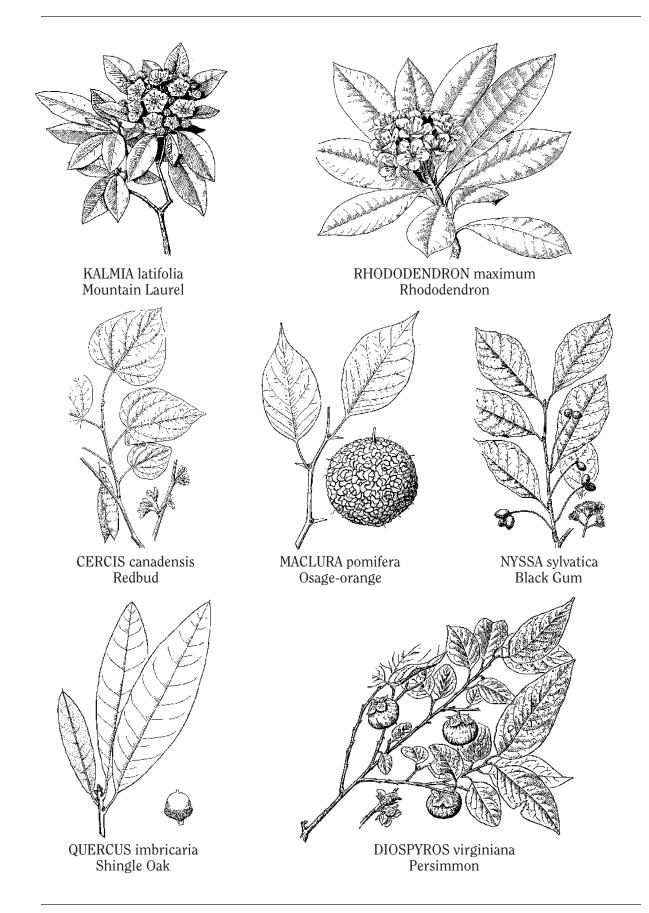


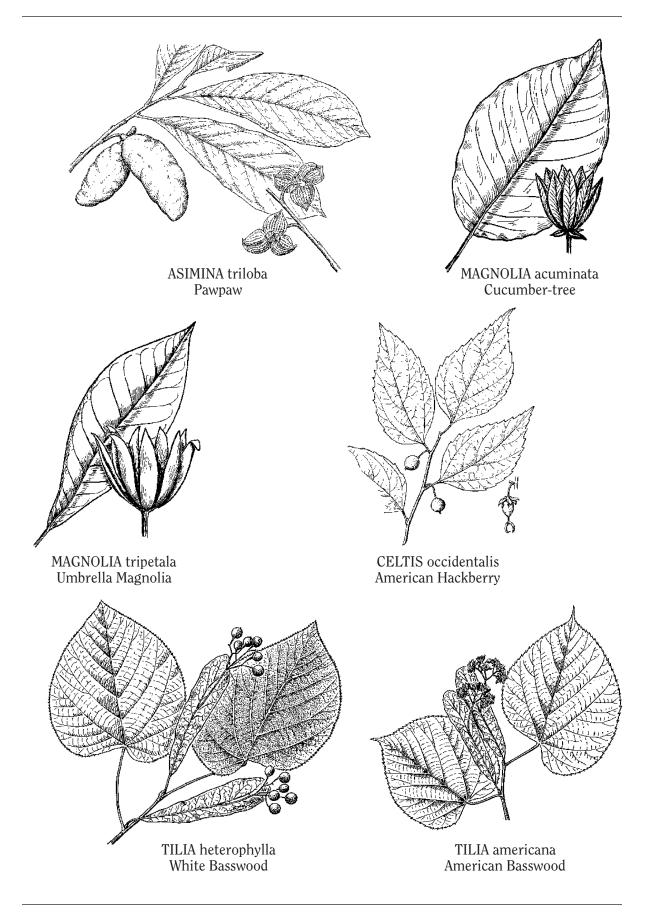
PYRUS coronaria Wild Crabapple

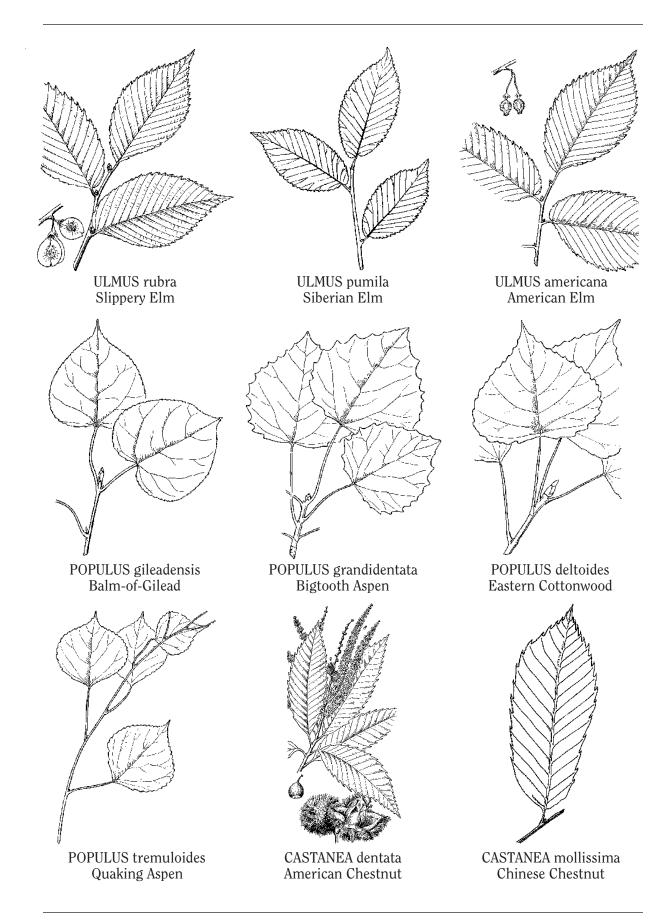


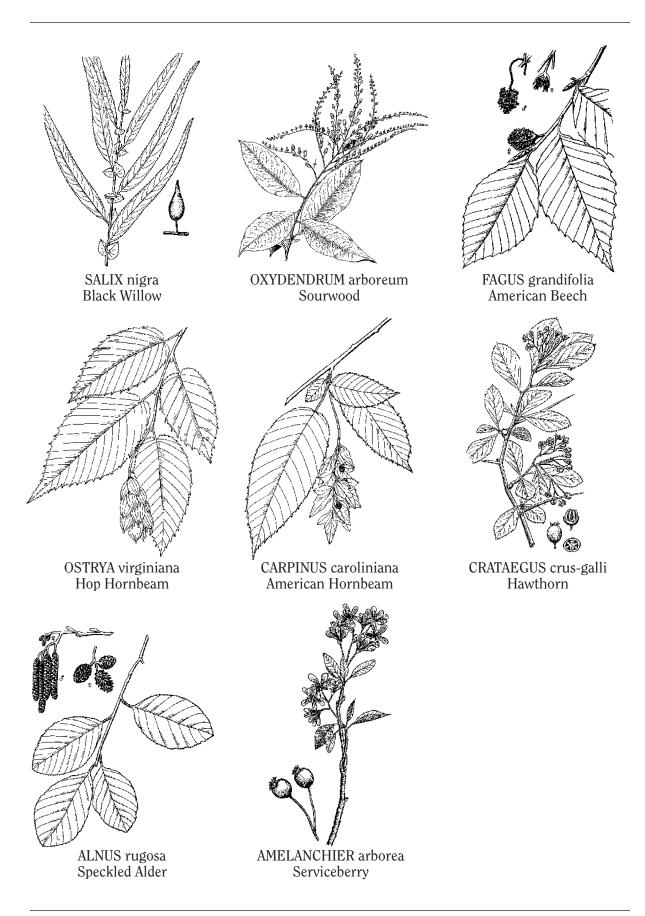
MORUS rubra Red Mulberry











LEAF RECORD SHEET I

Fill in the required information about the leaves in your collection.

Where Collected	Habitat	Date Collected	Fruit Collected
Laurel Creek	Swamp	July 3, 1995	Yes
	•		
	Where Collected Laurel Creek		

LEAF RECORD SHEET II

Fill in the required information about the leaves in your collection.

Common Name	Where Collected	Habitat	Date Collected	Fruit Collected
Example: White Oak	Jackson's Mill	Dry Hillside	June 20, 1995	No

FRUIT/SEED RECORD SHEET

Fill in the required information about the fruits/seeds in your collection. (Specify fruit, seed, or both.)

Common Name	Where Collected	Habitat	Date Collected	Fruit/Seed Collected
Example: Sugar Maple	Center Park	Near Ballfield	July 4, 1995	Seed
2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 5157 37 2000	

Project Checklist

Have yo	ou:
	Learned how to identify our more important forest trees?
	Learned how to build a plant press or display box?
	Learned how to collect and mount leaves, seeds, and fruit?
	Learned how to identify the items you collected and mounted?
	Filled in your record sheet?
	Given a visual presentation or illustrated talk on this project?
	Had your parent/s and leader review your completed record?
	Completed a project evaluation and forwarded it to either your 4-H leader or State 4-H Office?

4-H Project Evaluation

Now that you have finished this project, it is time for you to think about what you have learned. We also would like to know what you have learned and if the project needs to be improved. Your comments will help the people who write the projects. Please write answers to the following questions. Then give this form to your 4-H leader or mail it to:

Project Evaluation State 4-H Office Knapp Hall, P.O. Box 6031 Morgantown, WV 26506-6031

Titl	e of Project Tree Identification
Tre	e Identification
Gir	1 Boy (circle one) Age Grade in School Years in 4-H
1.	Was this your first project in this subject?
2.	Why did you pick this project?
3.	What was your favorite part of this project?
4.	By doing this project, what did you learn that you didn't know before?
5.	Did you do the activities in the project book? Why or why not?
6.	Did you like doing the activities in the project book? Why or why not?
7.	How would you change this project to make it better?
8.	Would you tell others to take this project? Why or why not?
9.	What other 4-H projects have you taken?
10.	If you have something else to say, write it on the back.

Score Sheet

The work of each 4-H member will be scored as follows:

YEAR 1		Points possible	Points earned
Collect, press, mount, and label leaves from 20 trees		60	
Leaf Record Sheet information		20	
Activity Record		20	
	Total	100	
YEAR 2 OR 3			
Collect, press, mount, and label leaves from 20 trees (different than Year 1's)		60	
Leaf Record Sheet information		20	
Activity Record		20	
	Total	100	
YEAR 2 OR 3			
Collect, press, mount, and label fruits/seeds from 20 trees		60	
Fruit/Seed Record Sheet information		20	
Activity Record		20	
	Total	100	

References:

Strausbaugh, P.D. and E.L. Core, 1977. Flora of West Virginia, 2nd Edition, Seneca Books, Grantsville, West Virginia, 1,079 pages.

Core, E.L. and R.L. Guthrie, 1977. Forest Trees of West Virginia, 7th Edition. West Virginia Division of Natural Resources, 119 pages. This low-cost booklet can be purchased at most West Virginia Division of Forestry offices.