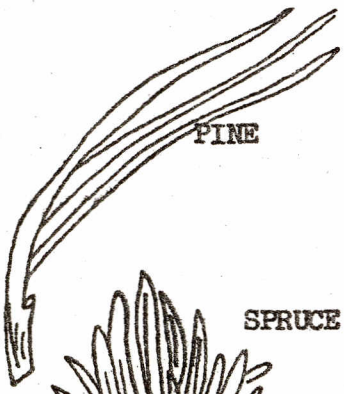
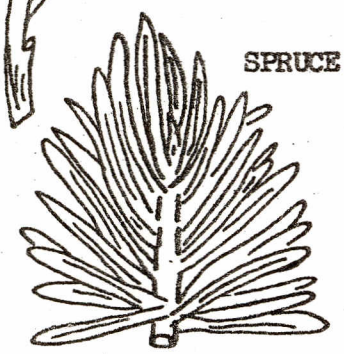
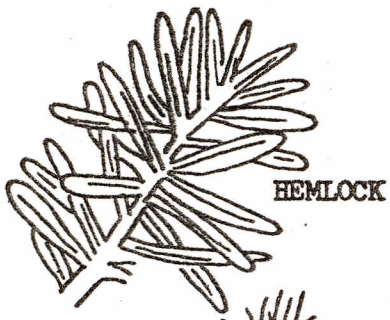
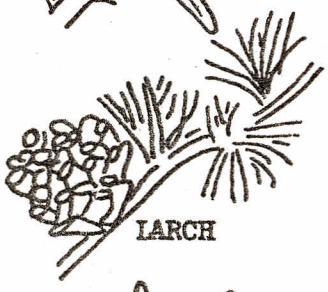
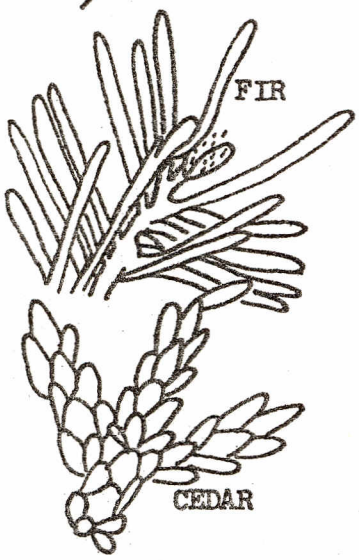
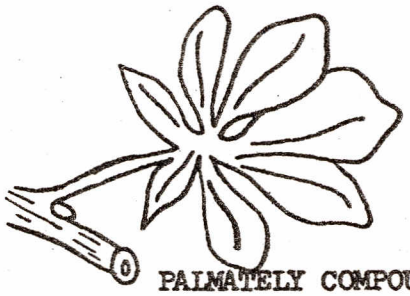


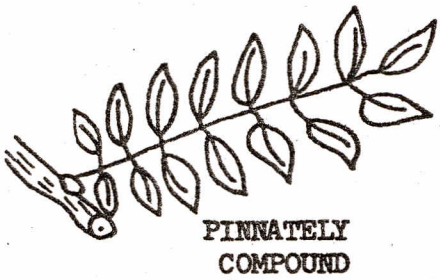


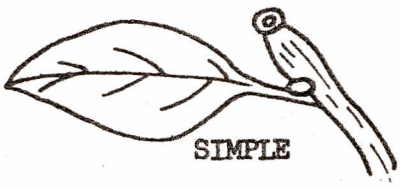




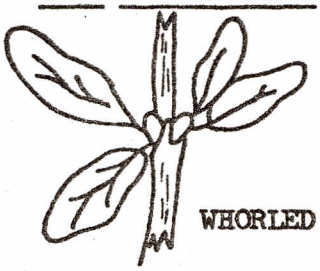


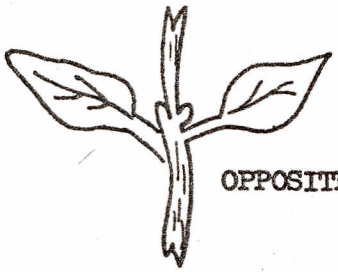


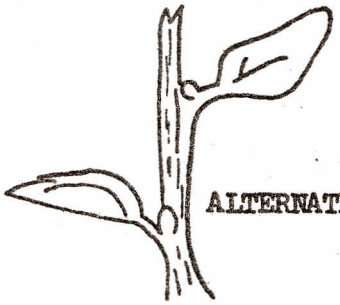


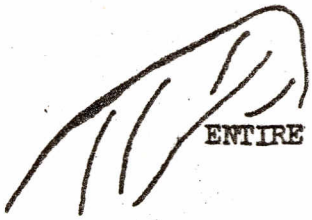


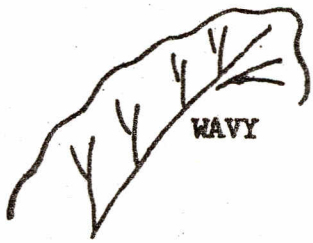
LEAF ARRANGEMENTS

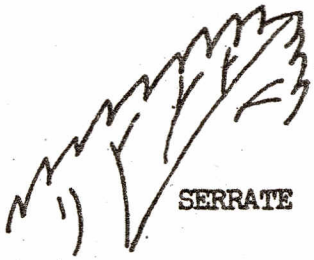


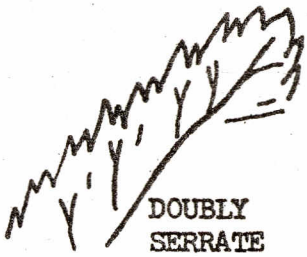


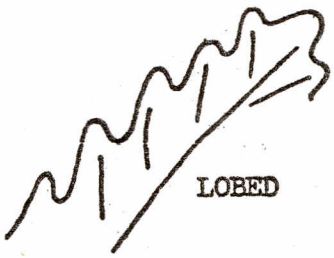












A SUMMER KEY FOR WEST VIRGINIA TREES

1. Leaves, needles, or foliage evergreen 2
1. Leaves falling in autumn..... 7

2. Leaves 1/2" or more wide ..... HOLLY, RHODODENDRON AND LAUREL
2. Leaves less than 1/2" wide, needlelike or scalelike..... 3

3. Leaves needlelike, united at base to form bundles..... PINES
   a. needles in bundles of 5 and 3-5" long.....WHITE PINE
   b. needles in bundles of 3 rigid and twisted.....PITCH PINE
   c. needles in bundles of 2 and 3 .....YELLOW PINE
   d. needles in bundles of 2 gray-green..... SCRUB PINE
3. Leaves or needles not in bundles, but occur singly 4

4. Needles scalelike, overlapping and paired..... EASTERN RED CEDAR
4. Needles or leaves, alternate, in spirals, not opposing each other..... 5

5. Leaves needlelike, 3 or 4 sided in cross-section..... SPRUCES
5. Leaves blunt, with parallel sides, flat in cross-section..... 6

6. Twigs stout, buds sticky, circular scars on old twigs.....BALSAM FIR
6. Twigs slender; buds not sticky, top of tree bends over..... HEMLOCK

7. Leaves narrow, almost needlelike, occur in tufts on woody spurs ..... LARCH
7. Leaves broader, not at all needlelike 8

8. Leaves opposite or in 3s..... 9
8. Leaves alternate 13

9. Leaves simple 10
9. Leaves compound 12

10. Leaves lobed palmately like fingers on a hand.....MAPLES
10. Leaves not lobed 11

11. Leaf margin smooth, side veins parallel margins .....DOGWOODS
11. Leaf margin toothed, side veins do not parallel margins 12

12. Leaves palmately compound.....BUCKEYES
12. Leaves pinnately compounds..... BOX ELDERS, ASHES

13. Leaves simple..... 14
13. Leaves compound 33

14. Leaves lobed..... 15
14. Leaves unlobed..... 20

15. Ends of lobes each bear a bristle or hair tip ..... RED OAKS
15. Ends of lobes not bristle tipped..... 16

16. Leaves and twigs have a spicy odor and taste.....SASSAFRAS
16. Leaves and twigs not spicy 17

17. Outline of leaf ellipitical, or broadest abcve middle.....WHITE OAKS
17. Outline of leaf circular, or nearly so 18

18. Base of leaf stem hollow, enclosing next year's bud .....SYCAMORE
18. Base of leaf stem solid 19

19. Leaves 4-Lobed, apex chopped off or indented.....YELLOWPOPLAR
19. Leaves 5- or 7-lobed, star shaped ..... SWEET GUM

20. Leaf stem flattened so leaf trembles in slight breeze .....ASPENS
20. Leaf stem circular or grooved in cross-section..... 21

21. Leaf margin entire, not toothed in any way 22
21. Leaf margin serrate or with sharp or rounded teeth 24

22. Sap milky, twigs armed with sharp thorns ..... OSAGE ORANGE
22. Sap clear, twigs unarmed..... 23

23. Pith cut lengthwise shows cross-bands of darker tissue.....BLACK GUM
23. Pith chambered or solid without cross-bands.....PAW PAW, CUCUMBER TREE

24. Teeth sharp, leaf with papery rattle, lance-shaped buds.....BEECH
24. Teeth sharp, or if rounded are small..... 25

25. Leaves circular 4" or more in diameter, heart-shaped at base.....BASSWOOD
25. Leaves not circular, if so, less than 4" in diameter 26

26. Leaves with medium-sized single teeth on margin..... 27
26. Leaves with double teeth or very small single ones 28

27. Teeth ending in a hair or bristle.....CHESTNUTS
27. Teeth without bristle 28

28. Twigs armed with long thorns .....THORNAPPLE
28. Twigs without thorns or spines..... 29

29. Leaves with medium-sized double teeth .....ELMS
29. Leaves with small single or double teeth..... 30

30. Twigs with an intensely bitter-almond taste 31
30. Twigs not as above 32

31. Twigs bitter, leaf lance-shaped and light green.....WILLOWS
31. Twigs bitter, leaf lance-shaped and dark green.....SHADBUSH, CHERRIES

32. Bark papery, dwarfed twigs, 2-winged seed borne in a cone BIRCHES
32. Bark smooth and blue-gray or finely shreddy, seen unwinged..... 33

33. Leaves twice compound, branched thorns or twigs.....HONEY LOCUSTS
33. Leaves once compound .....34 and 35

34. Leaves or twigs exude milky sap when broken.....SUMACS
34. Sap clear, spines on woody twig..... BLACK LOCUSTS

35. Second year's pith chambered when sliced lengthwise.....WALNUTS
35. Pith solid..... 36

36. Leaves fragrant when crushed, leaflets large.....HICKORYS
36. Leaves not fragrant, leaflets small, 2" long .....MT. ASHES