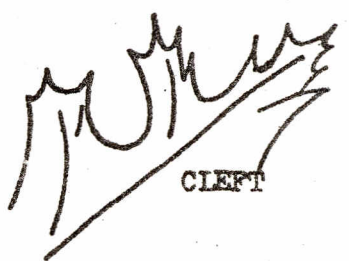
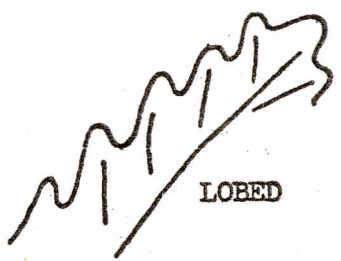
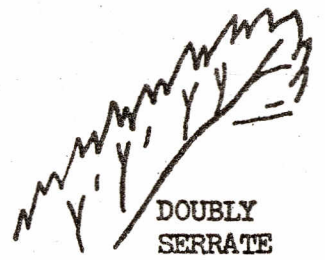
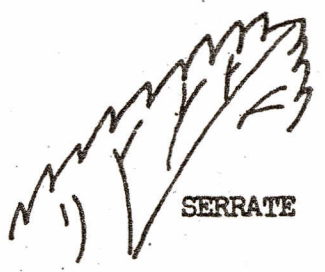
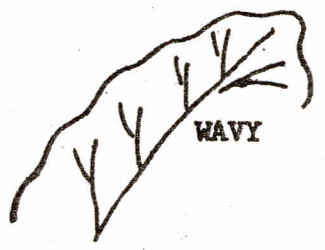
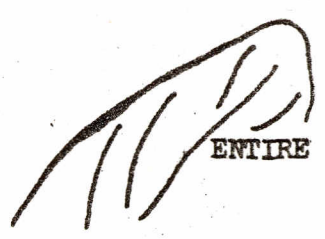
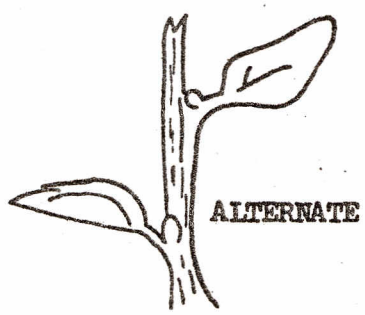
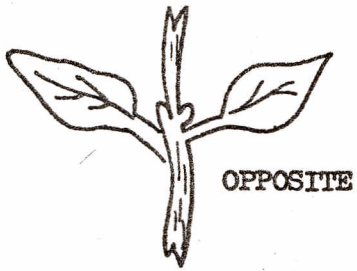
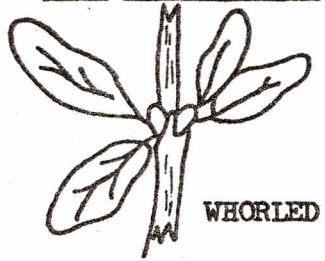


LEAF ARRANGEMENTS



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 above middle.....WHITE OAKS
- 17. Outline of leaf circular, or nearly so ..... 18

A SUMMER KEY FOR WEST VIRGINIA TREES (Cont'd)

|     |   |                        |           |
|-----|---|------------------------|-----------|
| 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              |           |