**TREE IDENTIFICATION**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Alder, Red | 15. Hemlock, Western | 29. Pine, Longleaf | 1.\_\_\_ | 8.\_\_\_ | 15.\_\_\_ |
| 2. Ash | 16. Hickory | 30. Pine, Pitch |  |  |  |
| 3. Aspen, Bigtooth | 17. Maple, Red | 31. Pine, Ponderosa | 2.\_\_\_ | 9.\_\_\_ | 16.\_\_\_ |
| 4. Aspen, Quaking | 18. Maple, Sugar | 32. Pine, Red |  |  |  |
| 5. Baldcypress | 19. Oak, Black | 33. Pine, Shortleaf | 3.\_\_\_ | 10.\_\_\_ | 17.\_\_\_ |
| 6. Beech, American | 20. Oak, Chestnut | 34. Poplar, Yellow |  |  |  |
| 7. Birch, Black | 21. Oak, Northern Red | 35. Red Cedar, Western | 4.\_\_\_ | 11.\_\_\_ | 18.\_\_\_ |
| 8. Birch, White | 22. Oak, Scarlet | 36. Redcedar, Eastern |  |  |  |
| 9. Cherry, Black | 23. Oak, Southern Red | 37. Spruce, Red | 5.\_\_\_ | 12.\_\_\_ | 19.\_\_\_ |
| 10. Cottonwood, Eastern | 24. Oak, White | 38. Spruce, Sitka |  |  |  |
| 11. Elm | 25. Pecan | 39. Spruce, White | 6.\_\_\_ | 13.\_\_\_ | 20.\_\_\_ |
| 12. Fir, Balsam | 26. Pine, Eastern White | 40. Sweetgum |  |  |  |
| 13. Fir, Douglas | 27. Pine, Loblolly | 41. Sycamore | 7.\_\_\_ | 14.\_\_\_ |  |
| 14. Hemlock, Eastern | 28. Pine, Lodgepole | 42. Walnut, Black |  |  |  |

**BOARD FOOT VOLUME**

***Stump height 6” above ground- Merchantable height 10”top.***

VOLUME (BOARD FEET) BY NUMBER OF USABLE 16-FT. LOGS

Doyle Log Rule (Form Class 80)

Number of 16-ft. logs

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tree Dia. Inches | 1 | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 |
| 10 | 16 | 20 | 23 | 24 | 26 |  |  |  |  |
| 11 | 24 | 30 | 35 | 38 | 42 |  |  |  |  |
| 12 | 31 | 39 | 47 | 52 | 57 | 60 | 62 |  |  |
| 13 | 42 | 53 | 64 | 72 | 80 | 84 | 88 |  |  |
| 14 | 52 | 67 | 82 | 93 | 104 | 109 | 114 |  |  |
| 15 | 64 | 84 | 104 | 118 | 132 | 141 | 150 |  |  |
| 16 | 77 | 101 | 125 | 143 | 161 | 174 | 186 |  |  |
| 17 | 92 | 122 | 152 | 175 | 198 | 214 | 230 |  |  |
| 18 | 108 | 144 | 179 | 206 | 234 | 254 | 273 |  |  |
| 19 | 126 | 168 | 210 | 244 | 278 | 301 | 324 |  |  |
| 20 | 144 | 193 | 242 | 282 | 321 | 348 | 374 | 396 | 417 |
| 21 | 164 | 221 | 278 | 324 | 370 | 403 | 436 | 462 | 489 |
| 22 | 185 | 250 | 315 | 368 | 420 | 458 | 497 | 529 | 561 |
| 23 | 208 | 282 | 356 | 417 | 478 | 521 | 564 | 604 | 643 |
| 24 | 231 | 314 | 397 | 466 | 536 | 583 | 630 | 678 | 725 |
| 25 | 256 | 350 | 443 | 522 | 600 | 655 | 710 | 764 | 818 |
| 26 | 282 | 386 | 489 | 576 | 663 | 727 | 791 | 852 | 912 |
| 27 | 310 | 425 | 540 | 638 | 735 | 806 | 877 | 946 | 1015 |
| 28 | 339 | 466 | 592 | 700 | 807 | 885 | 963 | 1040 | 1118 |
| 29 | 370 | 509 | 648 | 766 | 884 | 970 | 1056 | 1144 | 1232 |
| 30 | 400 | 552 | 703 | 832 | 961 | 1055 | 1149 | 1248 | 1346 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tree** | **DBH** | **NUMBER of LOGS** | **Vol.** |
| **1** |  |  |  |
| **2** |  |  |  |
| **3** |  |  |  |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |
| **8** |  |  |  |
| **9** |  |  |  |
| **10** |  |  |  |
| **TOTAL VOLUME** | | |  |

**FOREST MANAGEMENT EVALUATION/TIMBER STAND IMPROVEMENT**

|  |  |
| --- | --- |
| A. | Harvest — utilize the tree. |
| B. | Leave — the tree should remain in stand for a good reason. |
| C. | Deaden — Undesirable tree, not merchantable or beneficial to wildlife, should be deadened or cut down and left in woods |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tree Number | Species | DBH | Logs | Category |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 |  |  |  |  |
| 12 |  |  |  |  |
| 13 |  |  |  |  |
| 14 |  |  |  |  |
| 15 |  |  |  |  |
| 16 |  |  |  |  |
| 17 |  |  |  |  |
| 18 |  |  |  |  |
| 19 |  |  |  |  |
| 20 |  |  |  |  |

**HAND COMPASS**

|  |
| --- |
| COLORS FOR HAND COMPASS |
| 1. WHITE 2. ORANGE 3. GREEN 4. YELLOW 5. PINK 6. BLUE & ORANGE 7. RED 8. BLUE 9. LIME 10. BLUE & YELLOW |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | **Azimuth Bearing** |  |  | **8** | **Azimuth Bearing** |  |
|  | **Distance** |  |  |  | **Distance** |  |
| **2** | **Azimuth Bearing** |  |  | **9** | **Azimuth Bearing** |  |
|  | **Distance** |  |  |  | **Distance** |  |
| **3** | **Azimuth Bearing** |  |  | **10** | **Azimuth Bearing** |  |
|  | **Distance** |  |  |  | **Distance** |  |
| **4** | **Azimuth Bearing** |  |  |  |  |  |
|  | **Distance** |  |  |  |  |  |
| **5** | **Azimuth Bearing** |  |  |  |  |  |
|  | **Distance** |  |  |  |  |  |
| **6** | **Azimuth Bearing** |  |  |  |  |  |
|  | **Distance** |  |  |  |  |  |
| **7** | **Azimuth Bearing** |  |  |  |  |  |
|  | **Distance** |  |  |  |  |  |