**SR. FORESTRY CDE TIMBER CRUSING FOR BOARD FOOT VOLUME** AREA\_\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TEAM #\_\_\_\_\_\_\_\_ MEMBER ID \_\_\_\_\_\_\_\_

School\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Use the volume table below to determine total volume of trees tagged in this event.*

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

***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 |

 \_\_\_\_\_\_\_\_\_

 **Total Volume**

3 points for each correct diameter 3 points for each correct height

40 points for correct board ft. volume

Minus 1 pt. for each +/- 1% total volume (5 points/5% deviation)

|  |
| --- |
| **Scoring Space** |
| Students Total Volume |  |  |
| Correct Total Volume |  |  |
| Deviation (+ or - %) |  |  |
| Conversion to points (1%=1pt) |  |  |
| 40 points minus deduction |  | add for total |
| Points for diameter |  | add for total |
| Points for height |  | add for total |
| **Total Points** |  |  |
|  |  |  |

|  |
| --- |
| **Student Work Space** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
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Created 2018