

(材长 10.5~15.0 米)

# 新编原木材积速算表

中国林业出版社

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## 内 容 提 要

本书是依据现行的中华人民共和国国家标准 GB4814—84《原木材积表》并通过科学计算得出的。本书中的原木的检尺长范围为 10.5~15.0m。

为了满足各方面读者的需要,本书在编写过程中,不仅把原木的检尺径范围均扩大到了 120cm,而且还增加了单径级原木的材积数。

本书数据准确、实用全面、查阅方便,可作为木材生产、木材经销、木材检量、木材使用人员随身携带的工具书。

# 使用说明

本书是依据现行的中华人民共和国国家标准 GB4814—84《原木材积表》并通过科学计算得出的,可供各部门的木材生产、木材经销、木材检量、木材使用人员用于迅速方便地查定所有树种的材长为 10.5~15.0m 的原木的累计材积数。

## 一、查定方法

(1)单根的或不满 10 根的原木的材积累计数,可直接从本书中查得。

(2)根数为 10 根、20 根、30 根……的整十位数的原木的材积累计数,可先相应地查出 1 根、2 根、3 根……的材积数,然后将小数点右移一位(即扩大 10 倍)得到。

(3)10 根以上且带有个位数根数的原木的材积累计数,可先得出整十位数根数的材积数,然后再加上直接查得的个位数根数的材积数而得到。

## 二、GB 4814—84《原木材积表》的说明

本标准适用于所有树种的原木材积计算。

1. 检尺径自 4~12cm 的小径原木材积由下式确定:

$$V = 0.7854L(D + 0.45L + 0.2)^2 \div 10000$$

2. 检尺径自 14cm 以上的原木材积由下式确定:

$$V = 0.7854L[D + 0.5L + 0.005L^2 + 0.000125L(14 - L)^2 \cdot (D - 10)]^2 \div 10000$$

两式中:  $V$  —— 材积( $m^3$ );

$L$  —— 检尺长(m);

$D$  —— 检尺径(cm)。

3. 原木的检尺长、检尺径按 GB144.2-84《原木检验 尺寸检量》的规定检量。

4. 检尺径 4~6cm 的原木材积数字保留四位小数, 检尺径自 8cm 以上的原木材积数字, 保留三位小数。

### 三、GB4814-84《原木材积表》的附录——圆材材积计算公式

1. 检尺长超出原木材积表所列范围而又不符合原条标准的特殊用途圆材, 其材积按下式计算:

$$V = 0.8L(D + 0.5L)^2 \div 10000$$

2. 圆材的检尺长、检尺径按 GB144.2-84《原木检验 尺寸检量》的规定检量。

2.1 尺寸进级及公差。

2.1.1 检尺径: 按 2cm 进级。

2.1.2 检尺长的进级范围及长级公差允许范围由供需双方商定。

3. 缺陷限度及分级标准由供需双方商定。

4. 地方煤矿用的坑木材积按下表计算:

| 检尺径(cm) | 检 尺 长(m)             |       |       |
|---------|----------------------|-------|-------|
|         | 1.4                  | 1.6   | 1.8   |
|         | 材 积(m <sup>3</sup> ) |       |       |
| 8       | 0.008                | 0.010 | 0.011 |
| 10      | 0.013                | 0.015 | 0.017 |

四、有关原木检验的国家标准和专业标准目录

GB 142—84 直接用原木

GB 143.1—84 针叶树加工用原木 树种、主要用途

GB 143.2—84 针叶树加工用原木 尺寸、公差

GB 143.3—84 针叶树加工用原木 分等

GB 144.1—84 原木检验 工具、号印

GB 144.2—84 原木检验 尺寸检量

GB 144.3—84 原木检验 等级评定

GB 155.1—84 针叶树木材缺陷 分类

GB 155.2—84 针叶树木材缺陷 名称、定义和对材质的影响

GB 155.3—84 针叶树木材缺陷 基本检量方法

GB 887—89 直接用电杆

- GB 4812-84 特级原木
- GB 4813.1-84 阔叶树加工用原木 树种、主要用途
- GB 4813.2-84 阔叶树加工用原木 尺寸、公差
- GB 4813.3-84 阔叶树加工用原木 分等
- GB 4814-84 原木材积表
- GB 4823.1-84 阔叶树木材缺陷 分类
- GB 4823.2-84 阔叶树木材缺陷 名称、定义和对材质的影响
- GB 4823.3-84 阔叶树木材缺陷 基本检量方法
- GB 11716-89 小径原木
- GB 11717-89 造纸用原木
- ZBB 68003-86 次加工原木
- ZBB 68005-86 原木归楞
- ZBB 68008-89 脚手杆
- ZBB 68009-89 东北、内蒙古地区次加工原木
- ZBB 68010-89 短原木
- ZBB 68011-89 松木杆
- ZBB 68012-89 杂木杆
- ZBB 68015-89 原木检验号印、号锤

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |        |        |        |        |        |        |        |        |
|------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | 1                     | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |        |        |        |        |        |        |        |        |
| 3                | 0.0572                | 0.1144 | 0.1716 | 0.2288 | 0.2860 | 0.3432 | 0.4004 | 0.4576 | 0.5148 |
| 4                | 0.0719                | 0.1438 | 0.2157 | 0.2876 | 0.3595 | 0.4314 | 0.5033 | 0.5752 | 0.6471 |
| 5                | 0.0883                | 0.1766 | 0.2649 | 0.3532 | 0.4415 | 0.5298 | 0.6181 | 0.7064 | 0.7947 |
| 6                | 0.1063                | 0.2126 | 0.3189 | 0.4252 | 0.5315 | 0.6378 | 0.7441 | 0.8504 | 0.9567 |
| 7                | 0.126                 | 0.252  | 0.378  | 0.504  | 0.630  | 0.756  | 0.882  | 1.008  | 1.134  |
| 8                | 0.147                 | 0.294  | 0.441  | 0.588  | 0.735  | 0.882  | 1.029  | 1.176  | 1.323  |
| 9                | 0.171                 | 0.342  | 0.513  | 0.684  | 0.855  | 1.026  | 1.197  | 1.368  | 1.539  |
| 10               | 0.195                 | 0.390  | 0.585  | 0.780  | 0.975  | 1.170  | 1.365  | 1.560  | 1.755  |
| 11               | 0.222                 | 0.444  | 0.666  | 0.888  | 1.110  | 1.332  | 1.554  | 1.776  | 1.998  |
| 12               | 0.250                 | 0.500  | 0.750  | 1.000  | 1.250  | 1.500  | 1.750  | 2.000  | 2.250  |
| 13               | 0.280                 | 0.560  | 0.840  | 1.120  | 1.400  | 1.680  | 1.960  | 2.240  | 2.520  |
| 14               | 0.311                 | 0.622  | 0.933  | 1.244  | 1.555  | 1.866  | 2.177  | 2.488  | 2.799  |
| 15               | 0.344                 | 0.688  | 1.032  | 1.376  | 1.720  | 2.064  | 2.408  | 2.752  | 3.096  |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |       |       |       |       |       |       |       |       |
|------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 1                     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
|                  | 材 积 (m <sup>3</sup> ) |       |       |       |       |       |       |       |       |
| 16               | 0.379                 | 0.758 | 1.137 | 1.516 | 1.895 | 2.274 | 2.653 | 3.032 | 3.411 |
| 17               | 0.416                 | 0.832 | 1.248 | 1.664 | 2.080 | 2.496 | 2.912 | 3.328 | 3.744 |
| 18               | 0.454                 | 0.908 | 1.362 | 1.816 | 2.270 | 2.724 | 3.178 | 3.632 | 4.086 |
| 19               | 0.494                 | 0.988 | 1.482 | 1.976 | 2.470 | 2.964 | 3.458 | 3.952 | 4.446 |
| 20               | 0.536                 | 1.072 | 1.608 | 2.144 | 2.680 | 3.216 | 3.752 | 4.288 | 4.824 |
| 21               | 0.579                 | 1.158 | 1.737 | 2.316 | 2.895 | 3.474 | 4.053 | 4.632 | 5.211 |
| 22               | 0.624                 | 1.248 | 1.872 | 2.496 | 3.120 | 3.744 | 4.368 | 4.992 | 5.616 |
| 23               | 0.670                 | 1.340 | 2.010 | 2.680 | 3.350 | 4.020 | 4.690 | 5.360 | 6.030 |
| 24               | 0.719                 | 1.438 | 2.157 | 2.876 | 3.595 | 4.314 | 5.033 | 5.752 | 6.471 |
| 25               | 0.769                 | 1.538 | 2.307 | 3.076 | 3.845 | 4.614 | 5.383 | 6.152 | 6.921 |
| 26               | 0.820                 | 1.640 | 2.460 | 3.280 | 4.100 | 4.920 | 5.740 | 6.560 | 7.380 |
| 27               | 0.874                 | 1.748 | 2.622 | 3.496 | 4.370 | 5.244 | 6.118 | 6.992 | 7.866 |
| 28               | 0.929                 | 1.858 | 2.787 | 3.716 | 4.645 | 5.574 | 6.503 | 7.432 | 8.361 |
| 29               | 0.985                 | 1.970 | 2.955 | 3.940 | 4.925 | 5.910 | 6.895 | 7.880 | 8.865 |
| 30               | 1.044                 | 2.088 | 3.132 | 4.176 | 5.220 | 6.264 | 7.308 | 8.352 | 9.396 |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |       |       |       |        |        |        |        |        |
|------------------|-----------------------|-------|-------|-------|--------|--------|--------|--------|--------|
|                  | 1                     | 2     | 3     | 4     | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |       |       |       |        |        |        |        |        |
| 31               | 1.104                 | 2.208 | 3.312 | 4.416 | 5.520  | 6.624  | 7.728  | 8.832  | 9.936  |
| 32               | 1.166                 | 2.332 | 3.498 | 4.664 | 5.830  | 6.996  | 8.162  | 9.328  | 10.494 |
| 33               | 1.229                 | 2.458 | 3.687 | 4.916 | 6.145  | 7.374  | 8.603  | 9.832  | 11.061 |
| 34               | 1.294                 | 2.588 | 3.882 | 5.176 | 6.470  | 7.764  | 9.058  | 10.352 | 11.646 |
| 35               | 1.361                 | 2.722 | 4.083 | 5.444 | 6.805  | 8.166  | 9.527  | 10.888 | 12.249 |
| 36               | 1.429                 | 2.858 | 4.287 | 5.716 | 7.145  | 8.574  | 10.003 | 11.432 | 12.861 |
| 37               | 1.499                 | 2.998 | 4.497 | 5.996 | 7.495  | 8.994  | 10.493 | 11.992 | 13.491 |
| 38               | 1.571                 | 3.142 | 4.713 | 6.284 | 7.855  | 9.426  | 10.997 | 12.568 | 14.139 |
| 39               | 1.645                 | 3.290 | 4.935 | 6.580 | 8.225  | 9.870  | 11.515 | 13.160 | 14.805 |
| 40               | 1.720                 | 3.440 | 5.160 | 6.880 | 8.600  | 10.320 | 12.040 | 13.760 | 15.480 |
| 41               | 1.797                 | 3.594 | 5.391 | 7.188 | 8.985  | 10.782 | 12.579 | 14.376 | 16.173 |
| 42               | 1.875                 | 3.750 | 5.625 | 7.500 | 9.375  | 11.250 | 13.125 | 15.000 | 16.875 |
| 43               | 1.956                 | 3.912 | 5.868 | 7.824 | 9.780  | 11.736 | 13.692 | 15.648 | 17.604 |
| 44               | 2.037                 | 4.074 | 6.111 | 8.148 | 10.185 | 12.222 | 14.259 | 16.296 | 18.333 |
| 45               | 2.121                 | 4.242 | 6.363 | 8.484 | 10.605 | 12.726 | 14.847 | 16.968 | 19.089 |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |       |        |        |        |        |        |        |        |
|------------------|-----------------------|-------|--------|--------|--------|--------|--------|--------|--------|
|                  | 1                     | 2     | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |       |        |        |        |        |        |        |        |
| 46               | 2.206                 | 4.412 | 6.618  | 8.824  | 11.030 | 13.236 | 15.442 | 17.648 | 19.854 |
| 47               | 2.293                 | 4.586 | 6.879  | 9.172  | 11.465 | 13.758 | 16.051 | 18.344 | 20.637 |
| 48               | 2.382                 | 4.764 | 7.146  | 9.528  | 11.910 | 14.292 | 16.674 | 19.056 | 21.438 |
| 49               | 2.472                 | 4.944 | 7.416  | 9.888  | 12.360 | 14.832 | 17.304 | 19.776 | 22.248 |
| 50               | 2.564                 | 5.128 | 7.692  | 10.256 | 12.820 | 15.384 | 17.948 | 20.512 | 23.076 |
| 51               | 2.658                 | 5.316 | 7.974  | 10.632 | 13.290 | 15.948 | 18.606 | 21.264 | 23.922 |
| 52               | 2.753                 | 5.506 | 8.259  | 11.012 | 13.765 | 16.518 | 19.271 | 22.024 | 24.777 |
| 53               | 2.850                 | 5.700 | 8.550  | 11.400 | 14.250 | 17.100 | 19.950 | 22.800 | 25.650 |
| 54               | 2.949                 | 5.898 | 8.847  | 11.796 | 14.745 | 17.694 | 20.643 | 23.592 | 26.541 |
| 55               | 3.049                 | 6.098 | 9.147  | 12.196 | 15.245 | 18.294 | 21.343 | 24.392 | 27.441 |
| 56               | 3.151                 | 6.302 | 9.453  | 12.604 | 15.755 | 18.906 | 22.057 | 25.208 | 28.359 |
| 57               | 3.255                 | 6.510 | 9.765  | 13.020 | 16.275 | 19.530 | 22.785 | 26.040 | 29.295 |
| 58               | 3.360                 | 6.720 | 10.080 | 13.440 | 16.800 | 20.160 | 23.520 | 26.880 | 30.240 |
| 59               | 3.468                 | 6.936 | 10.404 | 13.872 | 17.340 | 20.808 | 24.276 | 27.744 | 31.212 |
| 60               | 3.576                 | 7.152 | 10.728 | 14.304 | 17.880 | 21.456 | 25.032 | 28.608 | 32.184 |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |        |        |        |        |        |        |        |        |
|------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | 1                     | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |        |        |        |        |        |        |        |        |
| 61               | 3.687                 | 7.374  | 11.061 | 14.748 | 18.435 | 22.122 | 25.809 | 29.496 | 33.183 |
| 62               | 3.799                 | 7.598  | 11.397 | 15.196 | 18.995 | 22.794 | 26.593 | 30.392 | 34.191 |
| 63               | 3.913                 | 7.826  | 11.739 | 15.652 | 19.565 | 23.478 | 27.391 | 31.304 | 35.217 |
| 64               | 4.028                 | 8.056  | 12.084 | 16.112 | 20.140 | 24.168 | 28.196 | 32.224 | 36.252 |
| 65               | 4.145                 | 8.290  | 12.435 | 16.580 | 20.725 | 24.870 | 29.015 | 33.160 | 37.305 |
| 66               | 4.264                 | 8.528  | 12.792 | 17.056 | 21.320 | 25.584 | 29.848 | 34.112 | 38.376 |
| 67               | 4.385                 | 8.770  | 13.155 | 17.540 | 21.925 | 26.310 | 30.695 | 35.080 | 39.465 |
| 68               | 4.507                 | 9.014  | 13.521 | 18.028 | 22.535 | 27.042 | 31.549 | 36.056 | 40.563 |
| 69               | 4.631                 | 9.262  | 13.893 | 18.524 | 23.155 | 27.786 | 32.417 | 37.048 | 41.679 |
| 70               | 4.757                 | 9.514  | 14.271 | 19.028 | 23.785 | 28.542 | 33.299 | 38.056 | 42.813 |
| 71               | 4.884                 | 9.768  | 14.652 | 19.536 | 24.420 | 29.304 | 34.188 | 39.072 | 43.956 |
| 72               | 5.013                 | 10.026 | 15.039 | 20.052 | 25.065 | 30.078 | 35.091 | 40.104 | 45.117 |
| 73               | 5.143                 | 10.286 | 15.429 | 20.572 | 25.715 | 30.858 | 36.001 | 41.144 | 46.287 |
| 74               | 5.276                 | 10.552 | 15.828 | 21.104 | 26.380 | 31.656 | 36.932 | 42.208 | 47.484 |
| 75               | 5.410                 | 10.820 | 16.230 | 21.640 | 27.050 | 32.460 | 37.870 | 43.280 | 48.690 |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |        |        |        |        |        |        |        |        |
|------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | 1                     | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |        |        |        |        |        |        |        |        |
| 76               | 5.545                 | 11.090 | 16.635 | 22.180 | 27.725 | 33.270 | 38.815 | 44.360 | 49.905 |
| 77               | 5.683                 | 11.366 | 17.049 | 22.732 | 28.415 | 34.098 | 39.781 | 45.464 | 51.147 |
| 78               | 5.822                 | 11.644 | 17.466 | 23.288 | 29.110 | 34.932 | 40.754 | 46.576 | 52.398 |
| 79               | 5.962                 | 11.924 | 17.886 | 23.848 | 29.810 | 35.772 | 41.734 | 47.696 | 53.658 |
| 80               | 6.105                 | 12.210 | 18.315 | 24.420 | 30.525 | 36.630 | 42.735 | 48.840 | 54.945 |
| 81               | 6.249                 | 12.498 | 18.747 | 24.996 | 31.245 | 37.494 | 43.743 | 49.992 | 56.241 |
| 82               | 6.395                 | 12.790 | 19.185 | 25.580 | 31.975 | 38.370 | 44.765 | 51.160 | 57.555 |
| 83               | 6.542                 | 13.084 | 19.626 | 26.168 | 32.710 | 39.252 | 45.794 | 52.336 | 58.878 |
| 84               | 6.691                 | 13.382 | 20.073 | 26.764 | 33.455 | 40.146 | 46.837 | 53.528 | 60.219 |
| 85               | 6.842                 | 13.684 | 20.526 | 27.368 | 34.210 | 41.052 | 47.894 | 54.736 | 61.578 |
| 86               | 6.994                 | 13.988 | 20.982 | 27.976 | 34.970 | 41.964 | 48.958 | 55.952 | 62.946 |
| 87               | 7.148                 | 14.296 | 21.444 | 28.592 | 35.740 | 42.888 | 50.036 | 57.184 | 64.332 |
| 88               | 7.304                 | 14.608 | 21.912 | 29.216 | 36.520 | 43.824 | 51.128 | 58.432 | 65.736 |
| 89               | 7.462                 | 14.924 | 22.386 | 29.848 | 37.310 | 44.772 | 52.234 | 59.696 | 67.158 |
| 90               | 7.621                 | 15.242 | 22.863 | 30.484 | 38.105 | 45.726 | 53.347 | 60.968 | 68.589 |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |        |        |        |        |        |        |        |        |
|------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | 1                     | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |        |        |        |        |        |        |        |        |
| 91               | 7.782                 | 15.564 | 23.346 | 31.128 | 38.910 | 46.692 | 54.474 | 62.256 | 70.038 |
| 92               | 7.944                 | 15.888 | 23.832 | 31.776 | 39.720 | 47.664 | 55.608 | 63.552 | 71.496 |
| 93               | 8.109                 | 16.218 | 24.327 | 32.436 | 40.545 | 48.654 | 56.763 | 64.872 | 72.981 |
| 94               | 8.274                 | 16.548 | 24.822 | 33.096 | 41.370 | 49.644 | 57.918 | 66.192 | 74.466 |
| 95               | 8.442                 | 16.884 | 25.326 | 33.768 | 42.210 | 50.652 | 59.094 | 67.536 | 75.978 |
| 96               | 8.611                 | 17.222 | 25.833 | 34.444 | 43.055 | 51.666 | 60.277 | 68.888 | 77.499 |
| 97               | 8.782                 | 17.564 | 26.346 | 35.128 | 43.910 | 52.692 | 61.474 | 70.256 | 79.038 |
| 98               | 8.955                 | 17.910 | 26.865 | 35.820 | 44.775 | 53.730 | 62.685 | 71.640 | 80.595 |
| 99               | 9.129                 | 18.258 | 27.387 | 36.516 | 45.645 | 54.774 | 63.903 | 73.032 | 82.161 |
| 100              | 9.305                 | 18.610 | 27.915 | 37.220 | 46.525 | 55.830 | 65.135 | 74.440 | 83.745 |
| 101              | 9.483                 | 18.966 | 28.449 | 37.932 | 47.415 | 56.898 | 66.381 | 75.864 | 85.347 |
| 102              | 9.662                 | 19.324 | 28.986 | 38.648 | 48.310 | 57.972 | 67.634 | 77.296 | 86.958 |
| 103              | 9.843                 | 19.686 | 29.529 | 39.372 | 49.215 | 59.058 | 68.901 | 78.744 | 88.587 |
| 104              | 10.026                | 20.052 | 30.078 | 40.104 | 50.130 | 60.156 | 70.182 | 80.208 | 90.234 |
| 105              | 10.210                | 20.420 | 30.630 | 40.840 | 51.050 | 61.260 | 71.470 | 81.680 | 91.890 |

材长:10.5m

| 小头<br>直径<br>(cm) | 根 数                   |        |        |        |        |        |        |         |         |
|------------------|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|
|                  | 1                     | 2      | 3      | 4      | 5      | 6      | 7      | 8       | 9       |
|                  | 材 积 (m <sup>3</sup> ) |        |        |        |        |        |        |         |         |
| 106              | 10.396                | 20.792 | 31.188 | 41.584 | 51.980 | 62.376 | 72.772 | 83.168  | 93.564  |
| 107              | 10.584                | 21.168 | 31.752 | 42.336 | 52.920 | 63.504 | 74.088 | 84.672  | 95.256  |
| 108              | 10.773                | 21.546 | 32.319 | 43.092 | 53.865 | 64.638 | 75.411 | 86.184  | 96.957  |
| 109              | 10.965                | 21.930 | 32.895 | 43.860 | 54.825 | 65.790 | 76.755 | 87.720  | 98.685  |
| 110              | 11.157                | 22.314 | 33.471 | 44.628 | 55.785 | 66.942 | 78.099 | 89.256  | 100.413 |
| 111              | 11.352                | 22.704 | 34.056 | 45.408 | 56.760 | 68.112 | 79.464 | 90.816  | 102.168 |
| 112              | 11.548                | 23.096 | 34.644 | 46.192 | 57.740 | 69.288 | 80.836 | 92.384  | 103.932 |
| 113              | 11.746                | 23.492 | 35.238 | 46.984 | 58.730 | 70.476 | 82.222 | 93.968  | 105.714 |
| 114              | 11.945                | 23.890 | 35.835 | 47.780 | 59.725 | 71.670 | 83.615 | 95.560  | 107.505 |
| 115              | 12.146                | 24.292 | 36.438 | 48.584 | 60.730 | 72.876 | 85.022 | 97.168  | 109.314 |
| 116              | 12.349                | 24.698 | 37.047 | 49.396 | 61.745 | 74.094 | 86.443 | 98.792  | 111.141 |
| 117              | 12.554                | 25.108 | 37.662 | 50.216 | 62.770 | 75.324 | 87.878 | 100.432 | 112.986 |
| 118              | 12.760                | 25.520 | 38.280 | 51.040 | 63.800 | 76.560 | 89.320 | 102.080 | 114.840 |
| 119              | 12.968                | 25.936 | 38.904 | 51.872 | 64.840 | 77.808 | 90.776 | 103.744 | 116.712 |
| 120              | 13.178                | 26.356 | 39.534 | 52.712 | 65.890 | 79.068 | 92.246 | 105.424 | 118.602 |

材长:11.0m

| 小头<br>直径<br>(cm) | 根 数                   |        |        |        |        |        |        |        |        |
|------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | 1                     | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|                  | 材 积 (m <sup>3</sup> ) |        |        |        |        |        |        |        |        |
| 3                | 0.0636                | 0.1272 | 0.1908 | 0.2544 | 0.3180 | 0.3816 | 0.4452 | 0.5088 | 0.5724 |
| 4                | 0.0794                | 0.1588 | 0.2382 | 0.3176 | 0.3970 | 0.4764 | 0.5558 | 0.6352 | 0.7146 |
| 5                | 0.0970                | 0.1940 | 0.2910 | 0.3880 | 0.4850 | 0.5820 | 0.6790 | 0.7760 | 0.8730 |
| 6                | 0.1164                | 0.2328 | 0.3492 | 0.4656 | 0.5820 | 0.6984 | 0.8148 | 0.9312 | 1.0476 |
| 7                | 0.138                 | 0.276  | 0.414  | 0.552  | 0.690  | 0.828  | 0.966  | 1.104  | 1.242  |
| 8                | 0.160                 | 0.320  | 0.480  | 0.640  | 0.800  | 0.960  | 1.120  | 1.280  | 1.440  |
| 9                | 0.185                 | 0.370  | 0.555  | 0.740  | 0.925  | 1.110  | 1.295  | 1.480  | 1.665  |
| 10               | 0.211                 | 0.422  | 0.633  | 0.844  | 1.055  | 1.266  | 1.477  | 1.688  | 1.899  |
| 11               | 0.240                 | 0.480  | 0.720  | 0.960  | 1.200  | 1.440  | 1.680  | 1.920  | 2.160  |
| 12               | 0.270                 | 0.540  | 0.810  | 1.080  | 1.350  | 1.620  | 1.890  | 2.160  | 2.430  |
| 13               | 0.301                 | 0.602  | 0.903  | 1.204  | 1.505  | 1.806  | 2.107  | 2.408  | 2.709  |
| 14               | 0.335                 | 0.670  | 1.005  | 1.340  | 1.675  | 2.010  | 2.345  | 2.680  | 3.015  |
| 15               | 0.370                 | 0.740  | 1.110  | 1.480  | 1.850  | 2.220  | 2.590  | 2.960  | 3.330  |