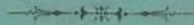


MITTEILUNGEN
AUS DEM
FORSTLICHEN VERSUCHSWESEN
ÖSTERREICHS.

HERAUSGEGEBEN VON DER
K. K. FORSTLICHEN VERSUCHSANSTALT IN MARIABRUNN.



DER GANZEN FOLGE XXXII. HEFT.

FORM UND INHALT DER WEISSFÖHRE.

VON
ADALBERT SCHIFFEL,
K. K. OBER-FORSTRAT.



WIEN.
K. U. K. HOF-BUCHHANDLUNG W. FRICK.
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ALLE RECHTE VORBEHALTEN.

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## V o r w o r t.

Die vorliegenden Form- und Massentafeln sind nach der gleichen Methode bearbeitet wie die der Lärche und Fichte, welche in dem XXIV. und XXXI. Hefte der Mitteilungen aus dem forstlichen Versuchswesen Österreichs veröffentlicht wurden. Ich konnte mich daher im textlichen Teile auf das Notwendigste beschränken.

Obgleich die von mir aufgestellten Hilfstafeln verschiedenen, höheren und minderen Ansprüchen an Genauigkeit genügen, weil sie auch ohne direkte Messung des Schaft-Mittendurchmessers mit Hilfe der Einschätzung des Schaftes in eine Formklasse benützbar sind und dabei auch noch die Daten für die Zerlegung des Schaftes in verschiedene Sortimenten enthalten, haben sie bisher einen Anklang in der Praxis nicht gefunden. Es ist meines Wissens nicht einmal ein ernster Versuch gemacht worden, diese Form- und Massentafeln einer vergleichenden Prüfung mit anderen derlei Hilfstafeln zu unterziehen. Ein solcher Versuch dürfte sich freilich nicht bloß auf die Untersuchung an einzelnen Stämmen beschränken, sondern müßte sich auf bestimmte Stammklassen (vorherrschend, herrschend, mitherrschend) nach Bonität, Schluß, Erziehung und Mischung verschiedener Bestände erstrecken. Bei einer solchen Prüfung würde sich nach meiner Überzeugung das Resultat ergeben, daß diese Tafeln, selbst nur bei der Anwendung der Formklassenmethode durchschnittlich und prinzipiell richtigere Resultate ergeben, als die in der Praxis allgemein üblichen, auf Grundlage gleicher Höhen und gleicher Durchmesser aufgestellten Massen- und Sortiments-tafeln, weil sie die Berücksichtigung der individuellen Formverfassung des Bestandes und der von der Rang- und Schlußstellung abhängigen Formunterschiede der Stammklassen gestatten.

Mariabrunn, im März 1907.

A. Schiffel.



## I. Das Grundlagenmaterial.

An dem Materiale, welches die Grundlage zur Bearbeitung der vorliegenden Hilfstafeln bildet, sind hauptsächlich Standorte aus den Kronländern Böhmen, Tirol, Niederösterreich und Galizien beteiligt. Doch liegen auch aus anderen Gebietsteilen Österreichs Stammkubierungen vor. Die Verteilung des Materiales nach der Provenienz zeigt folgende Übersicht:

**Tabelle 1.**

| L a n d | O r t          | Stamm-<br>zahl | L a n d          | O r t       | Stamm-<br>zahl |
|---------|----------------|----------------|------------------|-------------|----------------|
| Böhmen  | Nischburg      | 10             | Schlesien        | Tiergarten  | 8              |
|         | Kolenec        | 32             | Tirol            | Imst        | 308            |
|         | Fürstenberg    | 9              |                  | Brixen      | 39             |
|         | Neuhaus        | 21             |                  | Telfs       | 67             |
|         | Wlaschim       | 21             |                  | Schwaz      | 14             |
|         | Kornhaus       | 25             | Niederösterreich | Preßbaum    | 134            |
|         | Rovina         | 10             |                  | Purkersdorf | 20             |
|         | Ullersdorf     | 18             | Galizien         | Niepołomice | 100            |
| Mähren  | Obetzdorf      | 23             |                  | Grobla      | 9              |
|         | Gr. Wisternitz | 2              | Kärnten          | Hermagor    | 25             |
|         | Březnik        | 20             | Krain            | Veldes      | 34             |

Die Summe aller Stämme beträgt 947 Stück. An der Sammlung haben sich verschiedene Behörden, Ämter und Forstverwaltungen beteiligt, denen namens der Direktion der forstlichen Versuchsanstalt hiermit der verbindlichste Dank für ihre Bemühungen ausgesprochen wird. Die Ergänzung des von auswärts eingelangten Materiales, insbesondere in den geringsten und größten Höhen, hat die Versuchsanstalt selbst durchgeführt. Die Anzahl der hiezu erforderlichen Stämme betrug 234 Stück.

Die Verteilung des Materiales nach Höhen und Stärken zeigt folgende Tabelle 2.

**Tabelle 2.**

| Durchmesser<br>cm             | H ö h e n |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    | Summe |     |
|-------------------------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|-------|-----|
|                               | 7         | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21  | 24 | 27 | 30 | 33    |     |
| A n z a h l d e r S t ä m m e |           |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |       |     |
| 4                             | 1         | 2  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 3   |
| 5                             | —         | 2  | 1  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 3   |
| 6                             | 1         | 1  | 3  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 5   |
| 7                             | 2         | 1  | 4  | 1  | 1  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 9   |
| 8                             | 2         | 3  | 6  | 2  | 1  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 14  |
| 9                             | —         | —  | 2  | 3  | 1  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 6   |
| 10                            | —         | —  | 4  | 3  | 2  | 1  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | 10  |
| 11                            | —         | —  | 2  | 4  | 2  | 3  | —  | —  | 1  | 1  | —  | 1  | —  | —   | —  | —  | —  | —     | 14  |
| 12                            | —         | —  | 2  | 5  | 3  | 2  | —  | 2  | —  | —  | —  | 1  | —  | —   | —  | —  | —  | —     | 15  |
| 13                            | —         | —  | —  | 3  | 1  | 1  | 1  | —  | 1  | 2  | 1  | 3  | —  | —   | —  | —  | —  | —     | 13  |
| 14                            | —         | —  | 1  | 3  | 2  | 1  | 3  | 2  | 3  | 2  | 2  | 2  | —  | —   | —  | —  | —  | —     | 21  |
| 15                            | —         | 2  | —  | —  | 5  | 1  | 4  | 2  | 4  | 5  | 2  | 1  | 1  | —   | —  | —  | —  | —     | 27  |
| 16                            | —         | —  | —  | 4  | 4  | 5  | 5  | 3  | 8  | 9  | 9  | 5  | 3  | 5   | —  | —  | —  | —     | 60  |
| 18                            | —         | —  | —  | 3  | 2  | 7  | 5  | 7  | 5  | 16 | 8  | 11 | 1  | 4   | 1  | —  | —  | —     | 70  |
| 20                            | —         | 1  | —  | 1  | 2  | 4  | 6  | 7  | 14 | 22 | 16 | 8  | 9  | 6   | —  | —  | —  | —     | 96  |
| 22                            | —         | —  | 1  | 1  | 2  | 6  | 2  | 4  | 7  | 10 | 19 | 12 | 13 | 8   | 6  | 2  | —  | —     | 93  |
| 24                            | —         | —  | 1  | 2  | —  | 1  | 2  | 2  | 5  | 8  | 13 | 8  | 12 | 12  | 6  | 2  | 1  | —     | 75  |
| 26                            | —         | —  | —  | —  | 1  | —  | 1  | —  | 1  | 3  | 18 | 9  | 15 | 22  | 8  | 3  | —  | —     | 81  |
| 28                            | —         | —  | —  | —  | —  | —  | —  | —  | 3  | 4  | 9  | 7  | 7  | 12  | 6  | 6  | 1  | 1     | 56  |
| 30                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | 1  | 2  | 4  | 3  | 14  | 13 | 11 | 3  | —     | 51  |
| 32                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 4  | 4  | 19  | 9  | 11 | 7  | —     | 54  |
| 34                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 1  | 2  | 9   | 5  | 5  | 2  | 1     | 25  |
| 36                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 2  | 3  | 12  | 2  | 5  | 8  | 1     | 33  |
| 38                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 7   | 8  | 3  | 9  | 2     | 29  |
| 40                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 4   | 4  | 5  | 11 | 1     | 25  |
| 42                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 7   | —  | 2  | 7  | 1     | 17  |
| 44                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | 3   | 5  | 2  | 3  | 3     | 16  |
| 46                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | 1  | 2  | 4  | 1     | 8   |
| 48                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | 2  | 1  | 3  | 2     | 8   |
| 50                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | 1  | 1  | —     | 2   |
| 53                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | 2  | —     | 2   |
| 56                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | 2  | 1     | 3   |
| 59                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | —     | —   |
| 62                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —  | 2     | 2   |
| 65                            | —         | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | 1  | —     | 1   |
| Summe                         | 6         | 12 | 27 | 35 | 29 | 32 | 29 | 29 | 52 | 83 | 99 | 79 | 73 | 144 | 76 | 61 | 65 | 16    | 947 |

Die Bearbeitung des Materiales erfolgte ganz in der gleichen Weise, wie es bei der Fichte und Lärche beschrieben wurde, nämlich durch Zusammenfassung gleicher Formquotienten: Durchmesser in Brusthöhe  $d_m$  dividiert durch den Schaftmittendurchmesser  $d_{1/2}$  bei gleichen Höhen und Bildung der Mittelwerte aus Durchmesser, relativer Kronenlänge, Durchmesserquotienten und Formzahlen.

Die Resultate dieser Zusammenstellung sind in der folgenden Grundlagentabelle 3 dargestellt.

Tabelle 3.

## Grundlagenmaterial.

| Höhenklasse | Anzahl der Stämme |       |     |                      | Mittlerer Durchmesser<br>mm | Relative Kronenlänge | Durchmesser-quotienten<br>$q_2 = \text{unter } 0.54$ |       |       |       | Formzahlen |       |     |       | Höhenklasse | Anzahl der Stämme |       |       |                      | Mittlerer Durchmesser<br>mm | Relative Kronenlänge | Durchmesser-quotienten<br>$q_2 = 0.54 - 0.58$ |       |       |       | Formzahlen |     |      |       | Höhenklasse |       |       |       |       |      |   |   |
|-------------|-------------------|-------|-----|----------------------|-----------------------------|----------------------|------------------------------------------------------|-------|-------|-------|------------|-------|-----|-------|-------------|-------------------|-------|-------|----------------------|-----------------------------|----------------------|-----------------------------------------------|-------|-------|-------|------------|-----|------|-------|-------------|-------|-------|-------|-------|------|---|---|
|             | m                 | Alter | mm  | Relative Kronenlänge |                             |                      | Durchmesser-quotienten<br>$q_2 = \text{unter } 0.54$ |       |       |       | Formzahlen |       |     |       |             | m                 | Alter | mm    | Relative Kronenlänge |                             |                      | Durchmesser-quotienten<br>$q_2 = 0.54 - 0.58$ |       |       |       | Formzahlen |     |      |       |             | m     |       |       |       |      |   |   |
|             |                   |       |     |                      |                             |                      | $q_1$                                                | $q_2$ | $q_3$ | $f_m$ | $f_d$      | $f_b$ | $m$ | $q_1$ |             |                   |       |       |                      |                             |                      | $q_2$                                         | $q_3$ | $f_m$ | $f_d$ | $f_b$      | $m$ |      |       |             |       |       |       |       |      |   |   |
| 6           | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | —     | —   | 6     | —           | —                 | —     | —     | —                    | —                           | —                    | —                                             | —     | —     | —     | —          | —   | —    | —     |             |       |       |       |       |      |   |   |
| 7           | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | —     | —   | 7     | —           | —                 | —     | —     | —                    | —                           | —                    | —                                             | —     | —     | —     | —          | —   | —    | —     |             |       |       |       |       |      |   |   |
| 8           | 1                 | 62    | 197 | 82.4                 | 0.858                       | 0.523                | 0.295                                                | 0.408 | 0.395 | 0.505 | 8.5        | 8     | 1   | 30    | 64          | 32.7              | 0.875 | 0.578 | 0.360                | 0.504                       | 0.162                | 0.591                                         | 7.8   | 8     | 1     | 30         | 64  | 32.7 | 0.875 | 0.578       | 0.360 | 0.504 | 0.162 | 0.591 | 7.8  |   |   |
| 9           | 1                 | 110   | 238 | 79.8                 | 761                         | 501                  | 210                                                  | 360   | 355   | 449   | 9.4        | 9     | 1   | 30    | 78          | 33.7              | 807   | 577   | 397                  | 459                         | 236                  | 543                                           | 9.2   | 9     | 1     | 30         | 78  | 33.7 | 807   | 577         | 397   | 459   | 236   | 543   | 9.2  |   |   |
| 10          | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 10    | 3   | 80    | 197         | 75.9              | 804   | 563   | 292                  | 424                         | 363                  | 515                                           | 10.0  | 10    | 3     | 80         | 197 | 75.9 | 804   | 563         | 292   | 424   | 363   | 515   | 10.0 |   |   |
| 11          | 3                 | 30    | 180 | 57.3                 | 795                         | 532                  | 342                                                  | 403   | 380   | 609   | 10.6       | 11    | 2   | 47    | 245         | 64.0              | 834   | 549   | 275                  | 420                         | 413                  | 548                                           | 11.4  | 11    | 2     | 47         | 245 | 64.0 | 834   | 549         | 275   | 420   | 413   | 548   | 11.4 |   |   |
| 12          | 2                 | 56    | 244 | 65.8                 | 837                         | 521                  | 316                                                  | 401   | 397   | 616   | 12.2       | 12    | 3   | 66    | 218         | 83.1              | 851   | 569   | 304                  | 438                         | 434                  | 542                                           | 11.9  | 12    | 3     | 66         | 218 | 83.1 | 851   | 569         | 304   | 438   | 434   | 542   | 11.9 |   |   |
| 13-14       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 13-14 | —   | —     | —           | —                 | —     | —     | —                    | —                           | —                    | —                                             | —     | 13-14 | —     | —          | —   | —    | —     | —           | —     | —     | —     | —     | —    | — | — |
| 15-16       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 15-16 | 1   | 51    | 181         | 21.2              | 718   | 581   | 459                  | 389                         | 373                  | 391                                           | 16.5  | 15-16 | 1     | 51         | 181 | 21.2 | 718   | 581         | 459   | 389   | 373   | 391   | 16.5 |   |   |
| 17-18       | 2                 | 83    | 222 | 32.1                 | 739                         | 510                  | 357                                                  | 380   | 377   | 423   | 17.2       | 17-18 | 4   | 82    | 290         | 48.6              | 753   | 569   | 364                  | 395                         | 386                  | 500                                           | 17.5  | 17-18 | 4     | 82         | 290 | 48.6 | 753   | 569         | 364   | 395   | 386   | 500   | 17.5 |   |   |
| 19-20       | 1                 | 83    | 375 | 52.2                 | 691                         | 515                  | 299                                                  | 334   | 332   | 422   | 20.1       | 19-20 | 5   | 80    | 317         | 43.1              | 745   | 570   | 359                  | 384                         | 382                  | 461                                           | 19.6  | 19-20 | 5     | 80         | 317 | 43.1 | 745   | 570         | 359   | 384   | 382   | 461   | 19.6 |   |   |
| 21-22       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 21-22 | 3   | 87    | 380         | 50.8              | 752   | 566   | 347                  | 379                         | 373                  | 482                                           | 21.7  | 21-22 | 3     | 87         | 380 | 50.8 | 752   | 566         | 347   | 379   | 373   | 482   | 21.7 |   |   |
| 23-24       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 23-24 | 3   | 101   | 438         | 51.6              | 735   | 557   | 338                  | 367                         | 365                  | 439                                           | 23.3  | 23-24 | 3     | 101        | 438 | 51.6 | 735   | 557         | 338   | 367   | 365   | 439   | 23.3 |   |   |
| 25-27       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 25-27 | 2   | 79    | 325         | 31.4              | 738   | 569   | 392                  | 379                         | 378                  | 411                                           | 26.8  | 25-27 | 2     | 79         | 325 | 31.4 | 738   | 569         | 392   | 379   | 378   | 411   | 26.8 |   |   |
| 28-30       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 28-30 | 4   | 95    | 438         | 27.7              | 726   | 559   | 375                  | 368                         | 368                  | 395                                           | 28.6  | 28-30 | 4     | 95         | 438 | 27.7 | 726   | 559         | 375   | 368   | 368   | 395   | 28.6 |   |   |
| 31-33       | —                 | —     | —   | —                    | —                           | —                    | —                                                    | —     | —     | —     | —          | 31-33 | 1   | 77    | 515         | 32.1              | 763   | 577   | 367                  | 373                         | 372                  | 411                                           | 30.6  | 31-33 | 1     | 77         | 515 | 32.1 | 763   | 577         | 367   | 373   | 372   | 411   | 30.6 |   |   |

| Höhenklasse | Anzahl der Stämme |       |                             |                      | Durchmesser-quotienten |       |       | Formzahlen |          |       | Mittlere Höhe | Höhenklasse | Anzahl der Stämme   |       |       |        | Durchmesser-quotienten |       |       | Formzahlen |       |       | Mittlere Höhe |
|-------------|-------------------|-------|-----------------------------|----------------------|------------------------|-------|-------|------------|----------|-------|---------------|-------------|---------------------|-------|-------|--------|------------------------|-------|-------|------------|-------|-------|---------------|
|             | m                 | Alter | Mittlerer Durchmesser<br>mm | Relative Kronenlänge | $q_2 = 0.58 - 0.62$    |       |       | Schaft     | Derbholz | Baum  |               |             | $q_2 = 0.62 - 0.66$ |       |       | Schaft | Derbholz               | Baum  |       |            |       |       |               |
|             |                   |       |                             |                      | $q_1$                  | $q_2$ | $q_3$ |            |          |       |               |             | $f_m$               | $f_b$ | $f_d$ |        |                        |       | $q_1$ | $q_2$      | $q_3$ | $f_m$ |               |
| 6           | —                 | —     | —                           | —                    | —                      | —     | —     | —          | —        | —     | 6             | —           | —                   | —     | —     | —      | —                      | —     | —     | —          | —     | —     |               |
| 7           | 1                 | 30    | 43                          | 33.4                 | 0.876                  | 0.604 | 0.350 | 0.557      | —        | 0.611 | 7.2           | 7           | 2                   | 30    | 70    | 49.7   | 0.899                  | 0.655 | 0.341 | 0.517      | 0.181 | 0.609 | 7.2           |
| 8           | 2                 | 30    | 78                          | 42.1                 | 838                    | 0.603 | 347   | 0.481      | 0.257    | 616   | 8.1           | 8           | 1                   | 30    | 73    | 35.3   | 863                    | 630   | 397   | 489        | 214   | 609   | 8.5           |
| 9           | 4                 | 38    | 134                         | 57.8                 | 845                    | 608   | 337   | 478        | 381      | 575   | 9.0           | 9           | 4                   | 30    | 87    | 34.9   | 852                    | 647   | 385   | 483        | 281   | 593   | 9.4           |
| 10          | 6                 | 40    | 163                         | 53.3                 | 837                    | 612   | 319   | 451        | 414      | 628   | 10.1          | 10          | 7                   | 31    | 133   | 40.9   | 837                    | 645   | 394   | 473        | 417   | 654   | 10.2          |
| 11          | 3                 | 41    | 162                         | 60.5                 | 825                    | 614   | 364   | 436        | 411      | 550   | 11.2          | 11          | 9                   | 44    | 143   | 44.5   | 841                    | 636   | 398   | 467        | 418   | 658   | 11.0          |
| 12          | 3                 | 45    | 199                         | 60.5                 | 832                    | 594   | 369   | 448        | 435      | 628   | 12.2          | 12          | 13                  | 42    | 175   | 50.5   | 849                    | 645   | 393   | 471        | 447   | 634   | 12.0          |
| 13-14       | 11                | 65    | 206                         | 49.3                 | 827                    | 609   | 350   | 433        | 423      | 509   | 13.5          | 13-14       | 13                  | 66    | 194   | 41.5   | 836                    | 641   | 368   | 457        | 440   | 578   | 13.4          |
| 15-16       | 22                | 82    | 217                         | 45.9                 | 784                    | 605   | 365   | 414        | 403      | 492   | 15.9          | 15-16       | 36                  | 85    | 199   | 41.2   | 841                    | 644   | 412   | 449        | 436   | 532   | 15.8          |
| 17-18       | 19                | 89    | 223                         | 41.5                 | 775                    | 599   | 385   | 416        | 408      | 480   | 17.5          | 17-18       | 47                  | 86    | 231   | 37.9   | 788                    | 629   | 401   | 435        | 428   | 518   | 17.2          |
| 19-20       | 17                | 89    | 281                         | 35.8                 | 775                    | 609   | 402   | 416        | 413      | 484   | 19.5          | 19-20       | 42                  | 94    | 265   | 35.2   | 799                    | 643   | 432   | 442        | 438   | 517   | 19.5          |
| 21-22       | 16                | 91    | 323                         | 37.4                 | 770                    | 610   | 402   | 412        | 410      | 464   | 21.5          | 21-22       | 21                  | 96    | 327   | 38.1   | 801                    | 640   | 432   | 428        | 427   | 505   | 21.5          |
| 23-24       | 14                | 89    | 351                         | 30.6                 | 766                    | 603   | 395   | 399        | 398      | 415   | 23.2          | 23-24       | 19                  | 96    | 319   | 32.7   | 799                    | 642   | 440   | 436        | 434   | 491   | 23.5          |
| 25-27       | 10                | 95    | 337                         | 26.0                 | 780                    | 611   | 414   | 416        | 415      | 458   | 26.3          | 25-27       | 20                  | 93    | 345   | 34.4   | 802                    | 639   | 435   | 438        | 437   | 479   | 26.0          |
| 28-30       | 8                 | 89    | 378                         | 28.0                 | 774                    | 603   | 420   | 416        | 416      | 441   | 29.0          | 28-30       | 22                  | 99    | 379   | 29.6   | 798                    | 646   | 464   | 440        | 438   | 471   | 28.9          |
| 31-33       | 5                 | 91    | 391                         | 27.1                 | 764                    | 608   | 425   | 406        | 406      | 436   | 31.5          | 31-33       | 11                  | 102   | 477   | 33.6   | 788                    | 647   | 462   | 437        | 436   | 477   | 31.5          |
| 34-36       | —                 | —     | —                           | —                    | —                      | —     | —     | —          | —        | —     | —             | 34-36       | 2                   | 115   | 559   | 26.7   | 770                    | 647   | 460   | 424        | 424   | 445   | 34.9          |



## 2. Formzahlen und Formquotienten.

Die Grundlage der Inhaltsbestimmung des Schaftes am stehenden Baume bildet die unechte Schaftformzahl. Ihre sichere Ermittlung erfordert nebst der Kenntnis der Höhe noch die Messung eines zweiten Durchmessers. Die Lage dieses zweiten Durchmessers kann nicht beliebig gewählt werden. Man erhält die konstantesten, am wenigsten abweichenden Formzahlen, wenn der zweite Durchmesser in der Mitte des Schaftes genommen wird. Der aus dem Durchmesser im Meßpunkte  $m$  (bei 1·3  $m$  über dem Boden) und dem Durchmesser in der Schaftmitte gebildete Formquotient  $d_m : d_{1/2} = q_2$  ist in Verbindung mit der Höhe ausreichend, um die Form und damit auch den Inhalt des Schaftes für praktische Zwecke genügend genau zu bestimmen.

Die Beziehungen zwischen Höhe  $h$ , Schaftformzahl  $f_m$  und Formquotienten  $q_2$  habe ich auf dem gleichen empirischen Wege, wie ich ihn für die Lärche<sup>1)</sup> beschrieben habe, für die Kiefer in dem Ausdrucke:

$$f_m = 0.896 q_2 - 0.16 + \frac{0.34}{q_2 h} \quad 1$$

gefunden. Nach dieser Formel sind die Schaftformzahlen für die Höhen von 6 bis 38  $m$  und Formquotienten von 0.50 bis 0.78 berechnet und in die Formzahlen- und Formquotienten-Tafel I eingestellt worden. Ein Vergleich dieser berechneten Formzahlen mit den Angaben des Grundlagenmaterials zeigt eine genügende Übereinstimmung. Die Ermittlung der Baumformzahlen ist nicht mit der gleichen Sicherheit möglich, jedoch auch nicht erforderlich, weil dem Astholze bei Nadelhölzern bei weitem nicht jene wirtschaftliche Bedeutung zukommt, wie dem Schaftholze. Immerhin zeigt sich auch bei den Astholzformzahlen  $f_a$  eine gewisse Abhängigkeit von der Höhe und dem Formquotienten. Diese Beziehungen finden einen gesetzmäßigen Ausdruck in der Formel:

$$f_a = \frac{1.5}{h} + 0.05 - 0.08 q_2 \quad 2.$$

Die Baumformzahlen wurden aus  $f_m + f_a$  gebildet und gleichfalls in die Tafel I eingestellt.

Aus der Formel 1 folgen die bereits bei der Fichte und Lärche gefundenen Sätze:

1. Bei gleicher Höhe steigt die Formzahl in demselben Verhältnisse, in welchem der Formquotient zunimmt.
2. Bei gleicher Formzahl wächst der Formquotient mit zunehmender Höhe nach dem Gesetze einer Hyperbel.

<sup>1)</sup> Form und Inhalt der Lärche, XXXI. Heft der Mitteilungen aus dem forstlichen Versuchswesen Österreichs.

3. Bei gleichem Formquotienten fällt die Formzahl mit zunehmender Höhe gleichfalls nach dem Gesetze einer Hyperbel.

Auf dem gleichen Wege wie bei der Lärche wurden auch für die Kiefer die Beziehungen zwischen den Durchmesserquotienten  $d_m$   $d_{1/4} = q_1$  und  $d_m : d_{3/4} = q_3$ , dem Formquotienten  $q_2$  und der Höhe festgestellt. Die empirisch ermittelten Formeln lauten:

$$q_1 = 0.325 + 0.70 q_2 + \frac{0.48}{q_2 h} \quad 3,$$

$$q_3 = 0.81 q_2 - 0.05 - \frac{0.38}{q_2 h} \quad 4.$$

Die mit diesen Formeln für die einzelnen Höhen und Formquotienten berechneten Durchmesserquotienten  $q_1$  und  $q_3$  sind gleichfalls in der Tafel I eingestellt. Sie dienen dazu, um bei gegebener Höhe und bekanntem Formquotienten  $q_2$  die Durchmesser in  $1/4 h$  und  $3/4 h$  zu bestimmen.

Mit diesen 4 Formeln ist die Inhalts- und Formermittlung auf Grundlage der Höhe und des Formquotienten erledigt.

Die Betrachtung der Formel 1 lehrt also, daß Formquotient und Höhe gleich sein müssen, damit die Formzahl gleich sei.

Der Formquotient  $d_m$   $d_{1/2} = q_2$  ist an sich kein Weiser der Schaftform. Er wird ein solcher nur bei Schäften gleicher Höhe. Stämme mit gleichem Formquotienten haben also nur dann die gleiche Schaftform, wenn auch die Höhen gleich sind. Diese Eigenschaft des Formquotienten folgt aus der von der Höhe des Schaftes abhängigen Veränderlichkeit des Abstandes der beiden in Frage kommenden Durchmesser als Verhältnis zur Schaftlänge. Von der Höhe unabhängige Formweiser sind die Durchmesserquotienten  $d_{1/2} : d_{1/4}$ ,  $d_{3/4} : d_{1/2}$  und insbesondere  $d_{3/4} : d_{1/4}$ , weil die Abstände dieser Durchmesser stets das gleiche Verhältnis zur Schaftlänge aufweisen. In der folgenden Tabelle ist dargestellt, wie sich die einzelnen Durchmesserquotienten und die Schaftformzahlen bei gleichem Durchmesserquotienten  $d_{3/4} : d_{1/4} = q_{3/1}$  und verschiedener Höhe gestalten.

| $q_{3/1} = 0.45$ |                             |                                     |                                     |       | $q_{3/1} = 0.50$ |       |           |           |       | $q_{3/1} = 0.55$ |       |           |           |       |
|------------------|-----------------------------|-------------------------------------|-------------------------------------|-------|------------------|-------|-----------|-----------|-------|------------------|-------|-----------|-----------|-------|
| $h$              | $\frac{d_{1/2}}{d_m} = q_2$ | $\frac{d_{1/2}}{d_{1/4}} = q_{1/1}$ | $\frac{d_{3/4}}{d_{1/2}} = q_{3/2}$ | $f_m$ | $h$              | $q_2$ | $q_{3/1}$ | $q_{3/2}$ | $f_m$ | $h$              | $q_2$ | $q_{3/1}$ | $q_{3/2}$ | $f_m$ |
| 9.7              | 0.60                        | 0.725                               | 0.618                               | 0.437 | 10.5             | 0.660 | 0.770     | 0.649     | 0.480 | 11.5             | 0.720 | 0.812     | 0.677     | 0.526 |
| 11.0             | 0.58                        | 0.920                               | 0.623                               | 0.412 | 11.8             | 0.640 | 0.766     | 0.654     | 0.458 | 13.5             | 0.700 | 0.809     | 0.680     | 0.503 |
| 13.0             | 0.56                        | 0.716                               | 0.629                               | 0.389 | 13.6             | 0.620 | 0.760     | 0.658     | 0.436 | 16.0             | 0.680 | 0.805     | 0.685     | 0.480 |
| 16.0             | 0.54                        | 0.712                               | 0.635                               | 0.363 | 16.5             | 0.600 | 0.755     | 0.662     | 0.412 | 19.0             | 0.660 | 0.800     | 0.688     | 0.458 |
| 19.0             | 0.52                        | 0.606                               | 0.639                               | 0.340 | 19.0             | 0.580 | 0.750     | 0.666     | 0.390 | 23.0             | 0.640 | 0.794     | 0.692     | 0.436 |
| 22.0             | 0.50                        | 0.700                               | 0.645                               | 0.318 | 24.0             | 0.560 | 0.744     | 0.672     | 0.367 | 29.0             | 0.620 | 0.789     | 0.696     | 0.415 |
|                  |                             |                                     |                                     |       | 32.0             | 0.540 | 0.739     | 0.676     | 0.344 | 40.0             | 0.600 | 0.785     | 0.699     | 0.392 |

Die Beziehungen der Durchmesserquotienten  $q_1$ ,  $q_2$  und  $q_3$  untereinander ergeben sich aus Formel 3 und 4, wie folgt:

$$\begin{aligned} q_1 &= 1.724 q_2 - 1.265 q_3 - 0.307 & 5 \\ q_3 &= 1.365 q_2 - 0.791 q_1 - 0.243 & 6 \\ q_2 &= 0.58 q_1 - 0.73 q_3 + 0.178 & 7. \end{aligned}$$

### 3. Die Kubierung und Formermittlung mit der Höhe und dem Formquotienten.

Aus der Formel 1 ergibt sich der Inhalt des Schaftes mit

$$v = g_m h \left( 0.896 q_2 - 0.16 + \frac{0.34}{q_2 h} \right) \quad 8.$$

Nach dieser Formel wurde das Schaftvolumen berechnet und in die Inhalts- und Formtafel II eingestellt. Die Derbholzinhalte wurden in der Weise gebildet, daß von der Schaftmasse der einer bestimmten Höhe und dem Brusthöhendurchmesser  $d_m$  durchschnittlich zukommende Schaftreisholzinhalt, welcher in der Tabelle 6 dargestellt ist, abgezogen wurde. Der Derbholzinhalt ist also Schaftderbholz und enthält den Derbholzgehalt der Äste nicht. Zur Bildung der Bauminhalte sind, gleichwie für die Schaftinhalte, die mit den angegebenen Formeln berechneten Formzahlen benützt worden. Da bei gleicher Höhe Stämme mit sehr verschiedenen Durchmessern gleiche Formquotienten und gleiche Formzahlen aufweisen können, wurde die Einteilung der Form- und Inhaltstafel II in der Weise angeordnet, daß sie mit dem Eingange nach Höhe, Formquotienten und Durchmesser in Brusthöhe (1.3 m über dem Boden) zu benützen ist. Sollte diese Tafel für einzelne Durchmesser nicht ausreichen, dann ist zur Berechnung des Inhaltes, d. i. zur Aufsuchung der Formzahlen, sowie zur Ermittlung der Schaftform, d. i. der Durchmesser in den Abständen  $\frac{1}{4}$  und  $\frac{3}{4}$  der Höhe, die Formzahlen- und Formquotienten-Tafel I heranzuziehen.

Zur Bildung der Durchmesser in  $\frac{1}{4} h$  und  $\frac{3}{4} h$  wurden die in der Tafel I enthaltenen Durchmesserquotienten in der Weise benützt, daß einfach der Durchmesser in Brusthöhe mit den Quotienten  $q_1$ , beziehungsweise  $q_3$  multipliziert wurde. Es sind dann am Schaft 4 Durchmesser bekannt,  $d_m$  und  $d_{1/2}$  gemessen,  $d_{1/4}$  und  $d_{3/4}$  aus der Tafel zu entnehmen, so daß hiedurch die Schaftform genügend genau bestimmt und für Sortierungszwecke jeder beliebige Durchmesser im Wege der Interpolation nach dem Gesetze der geraden Linie gefunden werden kann.

Zu einer praktisch genauen Bestimmung des Inhaltes und der Form des Schaftes ist also das Messen der Höhe des Stammes und die direkte Ermittlung von  $d_m$  und  $d_{1/2}$  erforderlich, der letztere kann in sicherer Weise nur unter Anwendung von Fernrohrinstrumenten gefunden werden.<sup>1)</sup>

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<sup>1)</sup> Vergleiche: „Untersuchungen über den Genauigkeitsgrad einiger Dendrometer“. Zentralblatt f. d. g. Forstwesen, Jännerheft 1898.

Auf Grundlage der Formzahlen- und Formquotiententafel I ist die Massen- und Formtafel II berechnet worden.

Hat man beispielsweise die Höhe mit 25 *m*, den Durchmesser  $d_m$  in 1·3 *m* über den Boden mit 38 *cm*, den Durchmesser in der Schaftmitte mit 25 *cm* gemessen, so ist der Formquotient  $25:38 = 0·658$ . Man findet dann in der Tafel II für  $h = 25$  und  $q_2 = 0·66$ :

|                                  |                            |
|----------------------------------|----------------------------|
| Schaftinhalt                     | 1·28 <i>m</i> <sup>3</sup> |
| Derbholzinhalt                   | 1·28                       |
| Bauminhalt                       | 1·44 „                     |
| Durchmesser in $\frac{1}{4} h$ . | 31·0 <i>cm</i>             |
| $\frac{3}{4}$ „                  | 17·5 „                     |

Zur Reduktion der berindeten Durchmesser in rindenfreie kann die im 6. Abschnitte, Stärke und Inhalt der Weißföhrenrinde, aufgestellte Tabelle 10 benützt werden.

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## 4. Die Inhalts- und Formermittlung nach der Formklassen-Methode.

Diese Methode, welche auf der indirekten, schätzungsweisen Bestimmung des Formquotienten beruht, verspricht, obgleich sie an Genauigkeit der früher besprochenen Methode nachsteht, noch immer durchschnittlich bessere Resultate als sie die lediglich nach Höhe und Durchmesser aufgebauten Massentafeln, welche jeder Individualisierung des Falles ausweichen, zu liefern vermögen.

Die Weißföhre gehört zu den minder vollholzigen Nadelhölzern; ihre Formquotienten bewegen sich in den Grenzen zwischen 0.50—0.78. Da der gleiche Formquotient nicht auch gleiche Formen anzeigt, sondern dafür die Höhe in der Weise maßgebend ist, daß bei gleichem Formquotienten die Form mit zunehmender Höhe vollholziger wird, gehören in eine Formklasse auch Stämme mit verschiedenem Formquotienten. Ein von der Höhe unabhängiger Weiser der Form ist, wie bereits gesagt wurde, der Durchmesserquotient  $d_{\frac{1}{4}} : d_{\frac{1}{2}}$ . Nach diesem Merkmale sind in der nachfolgenden Formklasseneinteilung (Tabelle 4) die Formklassen in fünf Abstufungen: I. sehr abholzig, II. abholzig, III. mittelformig, IV. vollholzig und V. sehr vollholzig annähernd abgegrenzt. Da die Form „sehr abholzig“ nur bei freiständig erwachsenen, die Form „sehr vollholzig“ nur bei zwischenständig und mitherrschend erwachsenden Stämmen dichten Schlusses vorkommt, wird es sich in der Regel nur darum handeln, eine Entscheidung zwischen den drei mittleren Formklassen zu treffen. Zur Erleichterung dieser Schätzung kann die Kronenlänge und der Durchmesser bei gegebener Höhe berücksichtigt werden. Bei im Schlusse erwachsenen Weißföhren variiert die Kronenlänge haubarer Bestände in der Regel in engen Grenzen, zwischen 0.2 bis 0.4 der Schaftlänge. Es ist deshalb auch die Beurteilung der Schaftform aus der Kronenlänge eine sehr unsichere. Immerhin bietet sie einen Anhaltspunkt, der im Vereine mit dem Durchmesser und dem Schlußzustande, insbesondere mit der Beurteilung, ob der betreffende Baum vorwüchsig im lichten Schlusse oder im gedrängten Schlusse erwachsen ist, in bestimmten Fällen zur Entscheidung beitragen kann, in welche Formklasse der Stamm einzureihen sei.

Die Kronenlänge  $k$  wurde bei der Kiefer von der Höhe und dem Formquotienten abhängig gefunden. Die Formel lautet:

$$k = 0.54 + \frac{140}{q_2} h - 0.6 q_2 \quad 9.$$

Die mit dieser Formel berechneten Kronenlängen sind in der Tafel I eingestellt.

Die im großen Durchschnitte aller Bonitäten und Schlußformen auftretende Erscheinung, daß mit zunehmendem Durchmesser bei gleicher Höhe die Form abholziger wird, d. h. der Formquotient abnimmt, drückt die Formel:

$$q_2 = 0.385 + 0.345 \frac{h-1}{d_m} + 0.0326 \left( \frac{h-1}{d_m} \right)^2, \quad d_m = \frac{h-1}{\sqrt{30.7 q_2 + 16.3} - 5.30} \quad 10$$

aus. Die damit berechneten Durchmesser sind gleichfalls in der Tafel I enthalten.

Zur Einschätzung der Formklasse kann man nun bei dem Mangel anderer Anhaltspunkte in der Weise vorgehen, daß man die Höhe und den Durchmesser erhebt, die Kronenlänge in Prozenten der Höhe anschätzt und das einermal mit dem Eingange nach Höhe und Kronenlänge, das anderemal nach Höhe und Durchmesser den Formquotienten in der Tafel I aufsucht. Bei annähernder Übereinstimmung beider Untersuchungen behält man das Mittel dieser beiden Formquotienten, bei Nichtübereinstimmung läßt man den individuellen Eindruck über den Vollholzigkeitsgrad des Schaftes entscheiden, ob der größere oder kleinere Formquotient anzunehmen sei. Hätte man beispielsweise bei einem 25 m hohen Stamm die Kronenlänge mit 0.35  $h$ , den Durchmesser mit 40 cm gemessen, so findet man in der Tafel I für die Höhe 25 m und Kronenlänge 35% den Formquotienten 0.66, mit dem Eingange nach der Höhe und dem Durchmesser 40 cm aber den Formquotienten 0.60. In diesem Falle wird die Entscheidung darüber, ob der Formquotient mit 0.66 oder 0.60 zu bemessen oder ein Mittel aus beiden anzunehmen sei, von der Beurteilung der Schlußverhältnisse während der letzten Entwicklungszeit des Baumes abhängen.

Der praktische Vorgang bei der Einschätzung der Formklassen kann bei dem Versagen der Anhaltspunkte: Kronenlänge und Durchmesser, auch folgender sein. Man schätzt den Bestand als solchen nach Maßgabe der Bonität, der Begründungs- und Erziehungsart, bei Mischbeständen nach dem Grade der Vorwüchsigkeit, dem Stande der Astreinigung, Kronenbeschaffenheit und Kronenlänge in eine Formklasse ein, welche für den Bestandesmittelstamm Gültigkeit hat. Allen Bäumen, welche einen größeren Durchmesser haben, als der Mittelstamm wird ein kleinerer, allen anderen Stämmen ein größerer Formquotient zugeteilt als er für den Mittelstamm bestimmt wurde. Letztere Regel beruht auf dem Satze, daß in einem gleichmäßigen Bestande die Schaftform mit zunehmendem Durchmesser abnimmt, d. h. der Formquotient geringer wird. Eine Ausnahme von dieser Regel bilden die schwächsten, niedrigsten, der Unterdrückung nahen oder bereits unterdrückten Stämme, die in der Regel nicht vollholziger sind als der Mittelstamm und daher mit dem Formquotienten des Mittelstammes bedacht werden können. Die vollholzigsten Stämme eines Bestandes sind die mit herrschenden, schwachbekronten Stämme.

Hat man auf diese Weise die Formquotienten für die einzelnen Stärkestufen oder Stärkeklassen bestimmt, dann steht der Benützung der Form- und Massentafel II zur Ermittlung der Inhalte und der Durchmesser in  $\frac{1}{4}$ ,  $\frac{1}{2}$  und  $\frac{3}{4}$  der Höhe, somit zur Bildung der Sortimenten nichts mehr im Wege. An Genauigkeit wird die indirekte Ermittlung des Formquotienten durch Schätzung der direkten Bestimmung freilich nachstehen. Immerhin bin ich überzeugt, daß bei einiger Übung das Verfahren der Formklassen-Methode durchschnittlich bessere Inhaltsresultate ergeben wird, als die schablonmäßige Anwendung der Massentafel III mit dem Eingange nach Höhen und Durchmesser, ohne einen Mehraufwand von Messungen zu verursachen. Die Tunlichkeit einer richtigeren Sortierung und Bewertung bleibt als besonderer Vorteil der Formklassen-Methode übrig.

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Tabelle 4.

## Formklasseneinteilung.

| Höhe                                       | Formquotient $d_{1/2} : d_m = q_2$ |      |      |      |              |      |      |                   |      |      |                |      |      |                    |
|--------------------------------------------|------------------------------------|------|------|------|--------------|------|------|-------------------|------|------|----------------|------|------|--------------------|
|                                            | 0·52                               | 0·54 | 0·56 | 0·58 | 0·60         | 0·62 | 0·64 | 0·66              | 0·68 | 0·70 | 0·72           | 0·74 | 0·76 | 0·78               |
|                                            | I. sehr abholzig                   |      |      |      | II. abholzig |      |      | III. mittelförmig |      |      | IV. vollholzig |      |      | V. sehr vollholzig |
| Durchmesser $d_m$ bei 1·3 m über dem Boden |                                    |      |      |      |              |      |      |                   |      |      |                |      |      |                    |
| 6                                          | 13·3                               | 11·6 | 10·3 | 9·3  | 8·5          | 7·8  | 7·2  | 6·7               | 6·3  | 5·9  | 5·6            | 5·3  | 5·0  | 4·8                |
| 7                                          | 15·9                               | 13·9 | 12·4 | 11·2 | 10·1         | 9·4  | 8·7  | 8·1               | 7·6  | 7·1  | 6·7            | 6·4  | 6·0  | 5·8                |
| 8                                          | 18·6                               | 16·3 | 14·4 | 13·0 | 11·9         | 10·9 | 10·1 | 9·4               | 8·8  | 8·3  | 7·8            | 7·3  | 7·0  | 6·7                |
| 9                                          | 21·2                               | 18·6 | 16·5 | 14·9 | 13·6         | 12·5 | 11·6 | 10·8              | 10·1 | 9·5  | 9·0            | 8·5  | 8·0  | 7·7                |
| 10                                         | 23·9                               | 20·9 | 18·5 | 16·7 | 15·3         | 14·1 | 13·0 | 12·1              | 11·3 | 10·7 | 10·1           | 9·5  | 9·0  | 8·7                |
| 11                                         | 26·5                               | 23·2 | 20·6 | 18·6 | 17·1         | 15·7 | 14·5 | 13·5              | 12·6 | 11·9 | 11·2           | 10·6 | 10·0 | 9·6                |
| 12                                         | 29·2                               | 25·5 | 22·7 | 20·5 | 18·7         | 17·2 | 15·9 | 14·8              | 13·8 | 13·0 | 12·3           | 11·7 | 11·1 | 10·6               |
| 13                                         | 31·9                               | 27·9 | 24·8 | 22·3 | 20·4         | 18·7 | 17·3 | 16·1              | 15·1 | 14·2 | 13·4           | 12·7 | 12·1 | 11·6               |
| 14                                         | 34·5                               | 30·2 | 26·8 | 24·2 | 22·0         | 20·3 | 18·8 | 17·5              | 16·4 | 15·4 | 14·5           | 13·8 | 13·1 | 12·5               |
| 15                                         | 37·2                               | 32·5 | 23·9 | 26·0 | 23·8         | 21·9 | 20·3 | 18·8              | 17·6 | 16·6 | 15·7           | 14·8 | 14·1 | 13·5               |
| 16                                         | 39·8                               | 34·8 | 31·0 | 27·9 | 25·5         | 23·4 | 21·7 | 20·2              | 18·9 | 17·8 | 16·8           | 15·9 | 15·1 | 14·5               |
| 17                                         | 42·5                               | 37·1 | 33·0 | 29·8 | 27·1         | 25·0 | 23·1 | 21·5              | 20·1 | 19·0 | 17·9           | 17·0 | 16·1 | 15·4               |
| 18                                         | 45·1                               | 39·5 | 35·1 | 31·6 | 28·8         | 26·5 | 24·6 | 22·9              | 21·4 | 20·1 | 19·0           | 18·0 | 17·1 | 16·4               |
| 19                                         | 47·8                               | 41·8 | 39·1 | 33·5 | 30·5         | 28·1 | 26·0 | 24·2              | 22·6 | 21·3 | 20·1           | 19·1 | 18·1 | 17·4               |
| 20                                         | 50·4                               | 44·1 | 39·2 | 35·3 | 32·2         | 29·6 | 27·5 | 25·5              | 23·9 | 22·3 | 21·3           | 20·1 | 19·1 | 18·3               |
| 21                                         | 53·1                               | 46·4 | 41·2 | 37·2 | 33·9         | 31·3 | 28·9 | 26·9              | 25·2 | 23·7 | 22·4           | 21·2 | 20·1 | 19·3               |
| 22                                         | 55·7                               | 48·7 | 43·3 | 39·1 | 35·6         | 32·8 | 30·4 | 28·2              | 26·4 | 24·9 | 23·5           | 22·3 | 21·1 | 20·2               |
| 23                                         | 58·4                               | 51·0 | 45·4 | 40·9 | 37·3         | 34·3 | 31·8 | 29·6              | 27·7 | 26·1 | 24·6           | 23·3 | 22·1 | 21·2               |
| 24                                         | 61·0                               | 53·4 | 47·4 | 42·8 | 39·0         | 35·9 | 33·2 | 30·9              | 28·9 | 27·2 | 25·7           | 24·4 | 23·1 | 22·2               |
| 25                                         | 63·7                               | 55·7 | 49·5 | 44·6 | 40·7         | 37·4 | 34·7 | 32·3              | 30·2 | 28·4 | 26·9           | 25·4 | 24·1 | 23·1               |
| 26                                         | 66·3                               | 58·0 | 51·6 | 46·5 | 42·5         | 39·0 | 36·1 | 33·6              | 31·5 | 29·6 | 28·0           | 26·5 | 25·2 | 24·1               |
| 27                                         | 69·0                               | 60·3 | 53·6 | 48·3 | 44·1         | 40·6 | 37·6 | 35·0              | 32·7 | 30·8 | 29·1           | 27·5 | 26·2 | 25·0               |
| 28                                         | 71·6                               | 62·7 | 55·7 | 50·2 | 45·8         | 42·1 | 39·0 | 36·3              | 34·0 | 32·0 | 30·2           | 28·6 | 27·2 | 26·0               |
| 29                                         | 74·4                               | 65·0 | 57·7 | 52·1 | 47·5         | 43·7 | 40·5 | 37·6              | 35·2 | 33·1 | 31·3           | 29·7 | 28·2 | 27·0               |
| 30                                         | 76·9                               | 67·3 | 59·7 | 53·9 | 49·2         | 45·2 | 41·9 | 39·0              | 36·5 | 34·3 | 32·4           | 30·7 | 29·2 | 27·9               |
| 31                                         | 79·6                               | 69·6 | 61·9 | 55·8 | 50·9         | 46·9 | 43·4 | 40·4              | 37·7 | 35·5 | 33·6           | 31·8 | 30·2 | 28·9               |
| 32                                         | 82·3                               | 71·9 | 63·9 | 57·5 | 52·6         | 48·8 | 44·8 | 41·7              | 39·0 | 36·7 | 34·7           | 32·8 | 31·2 | 29·9               |
| 33                                         | 84·9                               | 74·3 | 66·0 | 59·5 | 54·2         | 49·9 | 46·3 | 43·0              | 40·3 | 37·9 | 35·8           | 33·9 | 32·2 | 30·8               |
| 34                                         | 87·6                               | 76·6 | 68·1 | 61·4 | 55·9         | 51·5 | 47·7 | 44·4              | 41·5 | 39·1 | 36·9           | 35·0 | 33·2 | 31·8               |
| 35                                         | 90·2                               | 78·9 | 70·1 | 63·2 | 57·7         | 53·1 | 49·1 | 45·7              | 42·8 | 40·2 | 38·0           | 36·0 | 34·2 | 32·7               |
| 36                                         | 92·9                               | 81·2 | 72·2 | 65·1 | 59·4         | 54·6 | 50·6 | 47·4              | 44·0 | 41·4 | 39·2           | 37·1 | 35·2 | 33·7               |
| 37                                         | 95·5                               | 83·5 | 74·2 | 66·9 | 61·0         | 56·2 | 52·0 | 48·4              | 45·3 | 42·6 | 40·3           | 38·1 | 36·2 | 34·7               |
| 38                                         | 98·2                               | 85·8 | 78·4 | 68·8 | 62·8         | 57·7 | 43·5 | 49·7              | 46·5 | 43·8 | 41·4           | 39·2 | 37·2 | 35·6               |

## 5. Die Kubierung mit der Höhe und dem Meßdurchmesser $d_m$ .

Die Inhaltsbestimmung stehender Bestände auf Grundlage der Höhe und des Durchmessers in 1·3 m über dem Boden ist eine höchst unsichere. Diese Unsicherheit wird durch die bekannte Tatsache erwiesen, daß in einem und demselben Bestande zwei Stämme mit gleicher Höhe und gleichem Durchmesser ganz bedeutend verschiedene Inhalte aufweisen können. Es ist ferner bekannt, daß dicht erwachsene reine Bestände vollholziger sind als licht erwachsene und daß eine Holzart in Mischung mit anderen, je nach dem Grade der Vorwüchsigkeit, Schlußstellung und dem Charakter der Belaubung und Beschirmung der Mischhölzer verschiedene Formen aufbaut, daß daher Formzahlen, welche dem einen Bestande entsprechen, für den anderen unrichtig sind. Insbesondere nimmt auch die Kiefer, die gerne in Mischungen verwendet wird, je nachdem sie vorwüchsig bleibt, in den Schluß gerät oder unterdrückt wird, die verschiedensten Formen und Formzahlen an. Es genügt, wenn ich darauf hinweise, daß nach den Untersuchungen Dr. Kunze's<sup>1)</sup> die unechten Derb- und Schaffholzformzahlen der Kiefer bei gleicher Höhe bis zu 0·2, d. i. um 40 und mehr Prozent der Masse, die absoluten Schaffformzahlen selbst bei gleicher Höhe und gleichem Durchmesser in den maßgebenden Höhen von 17 bis 26 m und Durchmessern von 20 bis 44 cm noch um 0·13 bis 0·19, d. i. um 30 bis 40% des Inhaltes, verschieden sein können. Daß unter solchen Umständen eine Massentafel, die sich bloß auf die Höhe und einen Durchmesser stützt, nur zufällig ein richtiges Resultat ergeben wird, liegt auf der Hand, zumal die Versuche, diese Massentafeln durch Berücksichtigung des Alters zu verbessern, nicht zum Ziele führten, weil ein gesetzmäßiger Einfluß des Alters nur dann zutage tritt, wenn Bestände verschiedener Bonität, jedoch gleicher Schlußform und Erziehungsweise miteinander verglichen werden.

Der wesentlichste Faktor der Form ist der Schluß, in welchem der Baum erwachsen ist, in zweiter Linie kommt die Bonität, d. i. der Verlauf des Höhen- und Stärkewachstumes in Betracht. Diesen Einfluß durch Berücksichtigung der Kronenlänge in bestimmbare Größen zu erfassen, wäre, wie aus den diesfälligen Untersuchungen Dr. Kunze's im V. Bande, I. Heft der Supplemente zum Tharander forstlichen Jahrbuche hervorgeht, gleichfalls ein fruchtloses Beginnen.

Wenn ich trotzdem darangehe, auf Grundlage der Höhe und des Durchmessers  $d_m$  in Bruthöhe eine Massen- und Derbholzsortierungstafel für die Kiefer aufzustellen, so tue ich das lediglich aus dem Grunde, um auch die geringsten Anforderungen an Genauigkeit bei der Massen- und Sortimentserhebung stehender Kiefernabstände zu befriedigen.

Geheimrat Dr. M. Kunze hat in der bezogenen Zeitschrift Formzahlen, Professor Dr. Schwappach Formzahlen und Massentafeln für die Kiefer (Berlin, 1890) mit dem Eingange nach Höhe und Durchmesser aufgestellt. Es liegt also die Frage nahe: ob ein Bedürfnis

<sup>1)</sup> Supplemente zum Tharander forstlichen Jahrbuche Band II, Seite 34 u. ff., dann Band V, Seite 31 u. ff., endlich Band VII, Seite 5.

besteht, sich weiterhin mit diesem Gegenstande zu befassen, da ja doch diesen Autoren ein weit reichhaltigeres Material für diesen Zweck zur Verfügung stand. Zunächst möchte ich bei Erörterung dieser Frage hervorheben, daß nach meiner Ansicht die Anzahl der untersuchten Stämme gar nicht maßgebend ist; es kann sich jemand aus 200 entsprechend ausgewählten Stämmen für ein bestimmtes Standortsgebiet und für eine gegebene Begründungs- und Erziehungsart eine viel richtigere Massentafel konstruieren, als sie ihm eine aus dem Durchschnitt von 100.000 Stämmen zusammengestellte Massentafel liefern würde. Der Unterschied liegt darin, daß die eine auf gleichartigem, die andere auf ungleichartigem Material aufgebaut ist.

In der nachfolgenden Tabelle habe ich die Untersuchungen an Stammklassenmittelstämmen von Kiefernbeständen verschiedenen Standortes, Schlusses und verschiedener Erziehungsweise zusammengestellt. Die Bestände Nr. 1 bis 4 sind auf annähernd gleichem Standorte in gutem Schlusse erwachsen, die Bestände Nr. 5, 6, 7 und 8 sind Mischbestände verschiedener Bonität, die Bestände 9 und 10 dagegen reine Kiefernbestände gleicher Bonität, jedoch verschiedenen Schlusses.

Tabelle 5.

| Ordnungs-Nr. | Land      | Ort         | Stärkeklasse     | D e r P r o b e s t ä m m e |       |                              |                              |                            |                            |                            | A n m e r k u n g                                                                                              |
|--------------|-----------|-------------|------------------|-----------------------------|-------|------------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------|
|              |           |             |                  | Anzahl                      | Alter | I m M i t t e l              |                              |                            |                            |                            |                                                                                                                |
|              |           |             |                  |                             |       | Höhe                         | Durchmesser                  | Formquotient               | Schaft-                    | Derbolz-                   |                                                                                                                |
|              |           |             |                  |                             |       |                              |                              |                            |                            |                            |                                                                                                                |
| 1            | Galizien  | Niepolomice | 1<br>2           | 6<br>4                      | 130   | 29·7<br>31·3                 | 36·3<br>49·8                 | 0·706<br>651               | 0·498<br>432               | 0·497<br>432               | Im dichten Jugendschlusse erwachsener reiner gleichalteriger Bestand                                           |
| 2            | Galizien  | Niepolomice | 1<br>2           | 7<br>3                      | 115   | 31·9<br>33·6                 | 39·6<br>52·7                 | 0·689<br>647               | 0·476<br>429               | 0·475<br>429               | Desgleichen                                                                                                    |
| 3            | Galizien  | Niepolomice | 1<br>2<br>3<br>4 | 5<br>6<br>5<br>2            | 93    | 27·5<br>27·7<br>29·1<br>30·8 | 29·6<br>35·4<br>47·1<br>59·1 | 0·678<br>673<br>660<br>640 | 0·477<br>467<br>445<br>427 | 0·476<br>466<br>444<br>427 | Desgleichen                                                                                                    |
| 4            | Galizien  | Niepolomice | 1<br>2           | 4<br>6                      | 90    | 27·6<br>30·1                 | 34·5<br>43·6                 | 0·671<br>642               | 0·487<br>451               | 0·486<br>450               | Desgleichen                                                                                                    |
| 5            | Schlesien | Freudental  | 1<br>2<br>3      | 3<br>2<br>3                 | 83    | 23·0<br>26·1<br>27·5         | 24·0<br>32·6<br>39·4         | 0·678<br>648<br>601        | 0·475<br>455<br>409        | 0·473<br>454<br>408        | Unregelmäßiger Mischbestand. Kiefer ist bloß eingesprengt im Fichten- und Tannen - Grundbestande. Guter Schluß |
| 6            | Tirol     | Imst        | 1<br>2<br>3      | 4<br>4<br>4                 | 115   | 19·1<br>21·9<br>21·1         | 26·8<br>31·5<br>37·7         | 0·678<br>670<br>638        | 0·474<br>453<br>438        | 0·472<br>452<br>437        | Mischbestand mit Fichte und Lärche. Kiefer 0·8. Guter Schluß                                                   |
| 7            | Böhmen    | Wlaschin    | 1                | 5                           | 82    | 22·3                         | 29·9                         | 0·618                      | 0·413                      | 0·411                      | Mischbestand mit Fichte. Kiefer vorwüchsig                                                                     |
| 8            | Tirol     | Schwarz     | 1<br>2<br>3      | 2<br>5<br>2                 | 100   | 20·5<br>21·6<br>21·0         | 26·3<br>31·8<br>41·7         | 0·634<br>630<br>605        | 0·450<br>444<br>406        | 0·447<br>442<br>405        | Mischbestand mit Fichte und Lärche. Kiefer vorherrschend, unregelmäßig im Alter und Schluß                     |
| 9            | Tirol     | Imst        | 1<br>2<br>3      | 4<br>6<br>2                 | 110   | 18·7<br>19·6<br>20·4         | 27·3<br>32·9<br>38·6         | 0·633<br>617<br>601        | 0·428<br>413<br>401        | 0·426<br>412<br>400        | Reiner gleichalteriger Kiefernbestand, lichtständig erwachsen. Geringe Bonität                                 |
| 10           | Tirol     | Imst        | 1<br>2           | 8<br>12                     | 92    | 17·0<br>18·3                 | 20·2<br>25·4                 | 0·636<br>672               | 0·483<br>460               | 0·478<br>456               | Reiner gleichalteriger Kiefernbestand, im guten Schlusse erwachsen. Geringe Bonität                            |

Betrachten wir beispielsweise die Formzahlen der in der vorstehenden Tabelle 5 angeführten Probestämme in den im besten Schlusse erwachsenen Beständen Nr. 1 bis 4 einerseits und die der lichtständig oder in Mischung erwachsenen Probestämme der Bestände Nr. 7 und 9 andererseits, so werden wir finden, daß hier, bei der Betrachtung der Bestände für sich, das allgemeine Gesetz des Sinkens der Formzahl mit zunehmender Höhe keine Gültigkeit hat, denn die höheren Bestände 1 bis 4 haben durchschnittlich eine höhere Formzahl als die Bestände 7 und 9. Der Bestand Nr. 6 ist vollholziger als der Bestand Nr. 8, dieser wieder vollholziger als Nr. 9. Die Differenzen sind lediglich auf den Schluß zurückzuführen. Solchen individuellen Erscheinungen mit den auf Grund der Höhe und eines Durchmessers aufgestellten Massentafeln Rechnung zu tragen, ist eine pure Unmöglichkeit, mögen dazu auch Millionen von Stämmen herangezogen werden. Dagegen würde schon eine bescheidene Anzahl von Probestämmen genügen, um die Formzahlen gegebener, bestimmter Bestandesformen und Bonitäten charakteristisch zu erfassen. Der Hinweis auf die Anzahl der den Untersuchungen zugrundeliegenden Stämme verschiedener Provenienz ist mir also aus dem Grunde der Ungleichartigkeit des Materiales kein Beweis für den Grad der Zuverlässigkeit der daraus abgeleiteten Massentafeln. Die Frage, ob in der Summe der Stämme alle auf die Formzahl einflußnehmenden Faktoren gleichmäßig vertreten sind, bleibt eine offene.

Eine weitere sehr wichtige Frage ist die, ob in den Zahlen der Massentafel jenes Gesetz zum Vorschein kommt, wie es im gegebenen Bestande wirklich vorkommt.

Zur Beantwortung dieser Frage sei hier folgendes angeführt.

Da nun einmal die Massentafeln dazu bestimmt sind, die Inhalte gegebener und nicht idealer Bestände zu ermitteln, so darf man aussprechen, daß das im Bestande enthaltene Gesetz auch in der Massentafel vorhanden sein soll. Für mich ist es nicht zweifelhaft, daß auf gegebenem Standorte im gleichen Alter der im lichterem Schlusse erwachsene Bestand auch der minder vollholzige sein wird. Gilt dies, dann folgt daraus, daß auch in einem und demselben Bestande der im lichterem Schlusse erwachsene Baum weniger vollholzig sein muß als der im dichterem Schlusse erwachsene. Da aber aus physiologischen Gründen der besser bekronte Stamm auch der stärkere sein wird, so folgt daraus, daß in gleich-alterigen Beständen die Formzahl mit steigendem Durchmesser abnimmt. Eine Abweichung von dieser Gesetzmäßigkeit läßt sich nur bei den unterdrückten, durch längere Zeit im Wachstum behinderten Zwischenbeständen konstatieren, die bei geringem Durchmesser auch eine geringe Formzahl aufweisen. Solche Stämme fallen aber praktisch nicht ins Gewicht. Von diesem allgemein für alle Nadelhölzer gültigen Gesetze kann auch die Kiefer keine Ausnahme machen. In der vorstehenden Tabelle sind die angeführten Bestände in der Hinsicht untersucht und es ist diese Gesetzmäßigkeit auch für die Kiefer darin bestätigt. Ich will ohne- weiters zugeben, daß zur zweifelfreien Bestätigung dieses Gesetzes die Untersuchung sämtlicher Stämme auf einer entsprechend gewählten Bestandesfläche erforderlich wäre, da ja bei den bekannten Unterschieden in den Formzahlen von Stämmen gleicher Höhe und mit gleichem Durchmesser in demselben Bestande gewiß auch einzelne Stämme zu finden wären, welche das Gegenteil nachweisen würden. Trotzdem halte ich dieses Gesetz für richtig, ja für das einzige, welches sich über das Verhalten der Formzahlen im Bestande auf Grundlage von Höhe und Durchmesser aufstellen läßt. Diesem Gesetze können die von Dr. Kunze und Dr. Schwappach aufgestellten Formzahlen der Kiefer aus dem Grunde nicht folgen, weil sie aus in dieser Hinsicht ungleichartigem Material entwickelt sind. Die neueste Massentafel Dr. Schwappach's

für die Kiefer<sup>1)</sup> läßt in den größeren Höhen sogar das gerade Gegenteil dieses Gesetzes erkennen. Dr. Schwappach teilt beispielsweise für die Höhe 25 m den Stämmen folgende Derbholzformzahlen zu:

| Durchmesser                                                                    |  |       |  |       |  |       |  |       |  |       |  |              |
|--------------------------------------------------------------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|--------------|
| 24                                                                             |  | 28    |  | 32    |  | 36    |  | 40    |  | 48    |  | 56 <i>cm</i> |
| Derbholzformzahlen                                                             |  |       |  |       |  |       |  |       |  |       |  |              |
| 0.446                                                                          |  | 0.453 |  | 0.457 |  | 0.460 |  | 0.461 |  | 0.469 |  | 0.479        |
| Meiner Massentafel liegen für diese Höhe folgende Derbholzformzahlen zugrunde: |  |       |  |       |  |       |  |       |  |       |  |              |
| 0.478                                                                          |  | 0.464 |  | 0.449 |  | 0.435 |  | 0.422 |  | 0.393 |  | 0.374.       |

Ich lege, meiner Wertschätzung der auf dieser Grundlage aufgebauten Massentafeln entsprechend, kein Gewicht auf die Verschiedenheit der Formzahlenreihen in den Zifferansätzen, muß aber meiner Meinung dahin Ausdruck geben, daß die Schwappach'schen Massentafeln, auf einen gegebenen gleichalterigen Bestand angewendet, eine dem wirklichen Zustande entgegengesetzte Gesetzmäßigkeit aufweisen werden. Sicher ist es, daß diese grundsätzliche Verschiedenheit im Aufbaue der Massentafeln zu großen Differenzen in den Massenangaben führt. Solche Unterschiede werden durch den Umstand, daß die Schwappach'schen Tafeln auch das Astderbholz, meine bloß das Schaftderbholz enthalten, in bestimmten Fällen etwas gemildert. Die meisten in der Tabelle 5 angeführten Bestände würden sowohl nach den Schwappach'schen, wie nach meiner Massen- und Derbholzsortierungstafel III unrichtig kubiert werden. Dagegen wird ein Aufsuchen der Formzahlen dieser Bestände nach Maßgabe der Höhe und des Formquotienten lehren, daß der Formquotient allen durch den Schluß hervorgerufenen Formunterschieden getreulich folgt und die Formzahlen der Bestände mit den nach der Formquotientenmethode ermittelten Formzahlen genügend genau übereinstimmen.

Aus dieser Darlegung lassen sich folgende Sätze ableiten:

1. Es ist nicht erweisbar, daß die Formzahlen aus Durchschnitten verschiedener Bestände mit zunehmender Höhe grundsätzlich und als Funktion der Höhe abnehmen. Maßgebend für die Formzahlgesetze ist lediglich die Stammform.

2. In einem und demselben Bestande nehmen die Formzahlen mit wachsendem Durchmesser, und weil im gleichen Bestande die stärkeren Bäume durchschnittlich auch die höheren sind, auch mit steigender Höhe ab.

3. Die Formzahlen sind auch bei gleicher Höhe und gleichem Meßpunktdurchmesser sehr verschieden, weil Bonität, Begründungs- und Erziehungsweise (Schluß), sowie das Verhalten in Mischungen einen bestimmenden Einfluß auf die Schaftform ausüben, der sich mit Höhe, Alter und Meßpunktdurchmesser nicht definieren läßt.

Richtige Massentafeln können auf Grundlage der Höhe und des Meßpunktdurchmessers nur für bestimmte lokale Verhältnisse, die keiner Änderung unterliegen, aufgestellt werden. Insbesondere wäre es ein Irrtum, anzunehmen, daß sich in einem gegebenen Falle die Fehler ausgleichen. Nein, es gibt eben vollholzige, minder vollholzige und abholzige Bestände, die diesen Charakter unbeschadet der Formvariationen einzelner Individuen naturgesetzlich unter bestimmten Voraussetzungen annehmen müssen. Derlei Verschiedenheiten des Bestandes finden in der Massentafel III keine Berücksichtigung. So würde beispielsweise der Mischbestand Nr. 7 nach meiner und nach der Schwappach'schen Tafel erheblich zu hoch kubiert werden.

Auf der Grundlage Höhe und Meßpunktdurchmesser sind also nach meiner Meinung allgemeine, d. i. für alle Verhältnisse gültige Massentafeln nicht aufstellbar, einerlei, ob sie nach dieser oder jener Methode, von Dr. Kunze, Dr. Schwappach oder dem Verfasser konstruiert wurden, weil sie die Bestandesindividualität nicht berücksichtigen können.

<sup>1)</sup> Massentafeln zur Bestimmung des Holzgehaltes stehender Waldbäume und Waldbestände. Grundner-Schwappach. Berlin, 1906.

### Schaftreisholzinhalt.

| Höb. | Durchmesser in <i>cm</i> bei 1·3 <i>m</i> über dem Boden |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|------|----------------------------------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|      | 6                                                        | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  |  |  |  |  |
|      | Schaftreisholzinhalt in $\frac{1}{1000}$ <i>fm</i>       |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| 6    | 8·7                                                      | 7·5  | 6·6  | 5·7 | 4·9 | 4·2 | 3·5 | 3·2 | 3·0 | 3·0 | 3·0 | 3·0 | 3·0 | —   | —   | —   | —   | —   | —   | —   |  |  |  |  |
| 7    | 10·3                                                     | 8·9  | 7·5  | 6·3 | 5·4 | 4·6 | 4·0 | 3·5 | 3·3 | 3·2 | 3·2 | 3·0 | 3·0 | 3·0 | 3·0 | —   | —   | —   | —   | —   |  |  |  |  |
| 8    | 12·0                                                     | 10·4 | 8·8  | 6·9 | 5·9 | 5·1 | 4·4 | 3·8 | 3·6 | 3·5 | 3·3 | 3·2 | 3·2 | 3·2 | 3·0 | 3·0 | —   | —   | —   | —   |  |  |  |  |
| 9    | 13·7                                                     | 12·0 | 9·0  | 7·3 | 6·2 | 5·4 | 4·7 | 4·1 | 3·8 | 3·6 | 3·5 | 3·3 | 3·3 | 3·3 | 3·2 | 3·2 | 3·0 | 3·3 | —   | —   |  |  |  |  |
| 10   | —                                                        | 13·5 | 10·1 | 7·8 | 6·4 | 5·6 | 4·9 | 4·5 | 4·1 | 3·8 | 3·7 | 3·5 | 3·4 | 3·4 | 3·4 | 3·4 | 3·3 | 3·3 | 3·2 | 3·2 |  |  |  |  |
| 11   | —                                                        | 15·0 | 10·8 | 8·1 | 6·7 | 6·0 | 5·4 | 4·8 | 4·4 | 4·1 | 4·0 | 3·8 | 3·6 | 3·6 | 3·5 | 3·3 | 3·3 | 3·3 | 3·2 | 3·2 |  |  |  |  |
| 12   | —                                                        | —    | 11·3 | 8·4 | 7·4 | 6·3 | 5·8 | 5·1 | 4·7 | 4·4 | 4·2 | 3·8 | 3·8 | 3·6 | 3·6 | 3·5 | 3·5 | 3·3 | 3·3 | 3·3 |  |  |  |  |
| 13   | —                                                        | —    | 11·8 | 8·6 | 7·7 | 6·8 | 6·1 | 5·5 | 5·0 | 4·7 | 4·3 | 4·1 | 4·0 | 3·9 | 3·8 | 3·6 | 3·6 | 3·5 | 3·5 | 3·3 |  |  |  |  |
| 14   | —                                                        | —    | —    | 8·9 | 8·0 | 7·2 | 6·5 | 5·9 | 5·3 | 5·0 | 4·6 | 4·3 | 4·1 | 4·0 | 3·9 | 3·7 | 3·7 | 3·5 | 3·5 | 3·5 |  |  |  |  |
| 15   | —                                                        | —    | —    | 9·2 | 8·5 | 7·7 | 6·9 | 6·3 | 5·6 | 5·3 | 4·8 | 4·6 | 4·5 | 4·1 | 4·0 | 3·9 | 3·7 | 3·5 | 3·5 | 3·5 |  |  |  |  |
| 16   | —                                                        | —    | —    | —   | 8·9 | 8·0 | 7·2 | 6·6 | 6·0 | 5·6 | 5·0 | 4·8 | 4·6 | 4·3 | 4·1 | 4·0 | 3·9 | 3·7 | 3·5 | 3·5 |  |  |  |  |
| 17   | —                                                        | —    | —    | —   | 9·2 | 8·3 | 7·5 | 6·9 | 6·3 | 6·0 | 5·3 | 5·0 | 4·7 | 4·4 | 4·4 | 4·1 | 3·9 | 3·7 | 3·5 | 3·5 |  |  |  |  |
| 18   | —                                                        | —    | —    | —   | —   | 8·5 | 7·8 | 7·2 | 6·6 | 6·3 | 5·6 | 5·2 | 4·9 | 4·6 | 4·5 | 4·2 | 4·0 | 3·8 | 3·6 | 3·6 |  |  |  |  |
| 19   | —                                                        | —    | —    | —   | —   | 8·8 | 8·1 | 7·5 | 6·9 | 6·6 | 6·0 | 5·5 | 5·2 | 4·9 | 4·6 | 4·3 | 4·1 | 4·0 | 3·8 | 3·6 |  |  |  |  |
| 20   | —                                                        | —    | —    | —   | —   | 9·0 | 8·5 | 7·8 | 7·3 | 6·7 | 6·3 | 5·8 | 5·4 | 5·3 | 4·8 | 4·5 | 4·3 | 4·1 | 4·0 | 3·8 |  |  |  |  |
| 21   | —                                                        | —    | —    | —   | —   | —   | 9·0 | 8·3 | 7·7 | 7·0 | 6·4 | 6·1 | 5·7 | 5·6 | 4·9 | 4·8 | 4·5 | 4·3 | 4·1 | 4·0 |  |  |  |  |
| 22   | —                                                        | —    | —    | —   | —   | —   | —   | 8·8 | 8·0 | 7·3 | 6·7 | 6·5 | 6·1 | 5·8 | 5·2 | 4·9 | 4·8 | 4·5 | 4·3 | 4·1 |  |  |  |  |
| 23   | —                                                        | —    | —    | —   | —   | —   | —   | 9·0 | 8·3 | 7·7 | 7·0 | 6·8 | 6·4 | 6·2 | 5·4 | 5·2 | 4·9 | 4·6 | 4·5 | 4·3 |  |  |  |  |
| 24   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | 8·0 | 7·4 | 6·9 | 6·6 | 6·3 | 5·5 | 5·3 | 5·0 | 4·9 | 4·6 | 4·5 |  |  |  |  |
| 25   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | 7·8 | 7·2 | 6·9 | 6·6 | 5·7 | 5·5 | 5·3 | 5·1 | 4·8 | 4·6 |  |  |  |  |
| 26   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | 7·7 | 7·2 | 6·9 | 6·0 | 5·8 | 5·5 | 5·2 | 4·9 | 4·8 |  |  |  |  |
| 27   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | 8·1 | 7·5 | 7·1 | 6·3 | 6·1 | 5·6 | 5·4 | 5·1 | 4·9 |  |  |  |  |
| 28   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | 7·8 | 7·2 | 6·6 | 6·3 | 6·0 | 5·6 | 5·2 | 5·1 |  |  |  |  |
| 29   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 7·4 | 6·7 | 6·5 | 6·1 | 5·8 | 5·5 | 5·1 |  |  |  |  |
| 30   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 6·9 | 6·8 | 6·3 | 6·0 | 5·6 | 5·2 |  |  |  |  |
| 31   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 7·0 | 6·9 | 6·4 | 6·3 | 5·8 | 5·2 |  |  |  |  |
| 32   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 7·0 | 6·6 | 6·4 | 5·8 | 5·4 |  |  |  |  |
| 33   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 7·0 | 6·8 | 6·5 | 6·0 | 5·4 |  |  |  |  |
| 34   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 6·8 | 6·6 | 6·0 | 5·5 |  |  |  |  |
| 35   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 6·6 | 6·2 | 5·5 |  |  |  |  |
| 36   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 6·2 | 5·7 |  |  |  |  |
| 37   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 6·2 | 5·7 |  |  |  |  |
| 38   | —                                                        | —    | —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 5·9 |  |  |  |  |

**Schaftreisholzinhalt.**

| Durchmesser in <i>cm</i> bei 1·3 <i>m</i> über dem Boden |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | Höhe<br><i>m</i> |
|----------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|
| 26                                                       | 27  | 28  | 29  | 30  | 32  | 34  | 36  | 38  | 40  | 42  | 44  | 46  | 50  | 54  | 58  | 62  | 66  | 70  | 74  | 78               |
| Schaftreisholzinhalt in $\frac{1}{1000}$ <i>fm</i>       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                  |
| —                                                        | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 6                |
| —                                                        | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 7                |
| —                                                        | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 8                |
| —                                                        | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 9                |
| —                                                        | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 10               |
| 3·2                                                      | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 11               |
| 3·2                                                      | 3·2 | 3·2 | 3·0 | 3·0 | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 12               |
| 3·3                                                      | 3·3 | 3·2 | 3·2 | 3·1 | 3·1 | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 13               |
| 3·4                                                      | 3·4 | 3·3 | 3·3 | 3·2 | 3·2 | 3·1 | 3·1 | 3·0 | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | 14               |
| 3·4                                                      | 3·4 | 3·3 | 3·3 | 3·2 | 3·2 | 3·1 | 3·1 | 3·0 | 3·0 | 2·9 | —   | —   | —   | —   | —   | —   | —   | —   | —   | 15               |
| 3·5                                                      | 3·4 | 3·4 | 3·3 | 3·2 | 3·2 | 3·0 | 3·0 | 3·0 | 2·9 | 2·9 | 2·9 | —   | —   | —   | —   | —   | —   | —   | —   | 16               |
| 3·5                                                      | 3·4 | 3·4 | 3·3 | 3·2 | 3·2 | 3·0 | 3·0 | 3·0 | 2·9 | 2·9 | 2·9 | 2·7 | —   | —   | —   | —   | —   | —   | —   | 17               |
| 3·5                                                      | 3·5 | 3·5 | 3·3 | 3·2 | 3·2 | 3·2 | 3·0 | 3·0 | 3·0 | 2·9 | 2·9 | 2·9 | 2·7 | —   | —   | —   | —   | —   | —   | 18               |
| 3·6                                                      | 3·5 | 3·5 | 3·3 | 3·2 | 3·2 | 3·2 | 3·0 | 3·0 | 3·0 | 2·9 | 2·9 | 2·9 | 2·7 | 2·7 | —   | —   | —   | —   | —   | 19               |
| 3·6                                                      | 3·6 | 3·5 | 3·5 | 3·3 | 3·3 | 3·2 | 3·2 | 3·0 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·7 | 2·6 | 2·4 | —   | —   | 20               |
| 3·8                                                      | 3·6 | 3·5 | 3·5 | 3·3 | 3·3 | 3·2 | 3·2 | 3·1 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | —   | 21               |
| 4·0                                                      | 3·8 | 3·6 | 3·6 | 3·4 | 3·4 | 3·2 | 3·2 | 3·1 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | 2·3 | 22               |
| 4·1                                                      | 4·0 | 3·8 | 3·6 | 3·5 | 3·4 | 3·3 | 3·3 | 3·1 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | 2·3 | 23               |
| 4·1                                                      | 4·0 | 3·8 | 3·6 | 3·6 | 3·5 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·7 | 2·6 | 2·4 | 2·3 | 2·3 | 24               |
| 4·3                                                      | 4·1 | 3·8 | 3·8 | 3·6 | 3·5 | 3·4 | 3·3 | 3·2 | 3·0 | 3·0 | 3·0 | 2·9 | 2·7 | 2·7 | 2·7 | 2·6 | 2·4 | 2·3 | 2·3 | 25               |
| 4·5                                                      | 4·1 | 4·0 | 4·0 | 3·8 | 3·7 | 3·4 | 3·3 | 3·2 | 3·1 | 3·0 | 3·0 | 2·9 | 2·7 | 2·7 | 2·7 | 2·6 | 2·4 | 2·3 | 2·3 | 26               |
| 4·6                                                      | 4·4 | 4·1 | 4·1 | 3·8 | 3·7 | 3·5 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·7 | 2·7 | 2·7 | 2·6 | 2·4 | 2·3 | 2·3 | 27               |
| 4·7                                                      | 4·6 | 4·3 | 4·3 | 4·0 | 3·8 | 3·5 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·7 | 2·7 | 2·7 | 2·6 | 2·4 | 2·3 | 2·3 | 28               |
| 4·9                                                      | 4·7 | 4·4 | 4·4 | 4·0 | 3·8 | 3·5 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·6 | 2·5 | 2·3 | 2·3 | 29               |
| 5·0                                                      | 4·8 | 4·7 | 4·5 | 4·1 | 4·0 | 3·6 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·9 | 2·7 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | 30               |
| 5·0                                                      | 4·8 | 4·7 | 4·5 | 4·2 | 4·0 | 3·6 | 3·4 | 3·4 | 3·2 | 3·0 | 3·0 | 2·9 | 2·9 | 2·8 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | 31               |
| 5·2                                                      | 4·9 | 4·8 | 4·6 | 4·3 | 4·1 | 4·0 | 3·7 | 3·4 | 3·4 | 3·2 | 3·0 | 2·9 | 2·9 | 2·8 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | 32               |
| 5·2                                                      | 4·9 | 4·8 | 4·6 | 4·3 | 4·1 | 3·8 | 3·5 | 3·5 | 3·5 | 3·2 | 3·1 | 2·9 | 2·9 | 2·8 | 2·7 | 2·7 | 2·5 | 2·4 | 2·3 | 33               |
| 5·3                                                      | 4·9 | 4·8 | 4·6 | 4·3 | 4·1 | 3·8 | 3·5 | 3·5 | 3·5 | 3·3 | 3·1 | 2·9 | 2·9 | 2·8 | 2·8 | 2·8 | 2·7 | 2·5 | 2·4 | 34               |
| 5·3                                                      | 4·9 | 4·8 | 4·6 | 4·4 | 4·1 | 3·8 | 3·5 | 3·5 | 3·5 | 3·3 | 3·1 | 3·0 | 3·0 | 2·9 | 2·9 | 2·8 | 2·7 | 2·5 | 2·4 | 35               |
| 5·3                                                      | 4·9 | 4·8 | 4·7 | 4·4 | 4·1 | 3·8 | 3·5 | 3·5 | 3·5 | 3·3 | 3·1 | 3·0 | 3·0 | 2·9 | 2·9 | 2·8 | 2·7 | 2·5 | 2·4 | 36               |
| 5·4                                                      | 5·0 | 4·9 | 4·7 | 4·4 | 4·3 | 4·0 | 3·6 | 3·5 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·9 | 2·8 | 2·7 | 2·6 | 2·5 | 37               |
| 5·5                                                      | 5·1 | 4·9 | 4·7 | 4·4 | 4·3 | 4·0 | 3·6 | 3·5 | 3·3 | 3·3 | 3·2 | 3·0 | 3·0 | 2·9 | 2·9 | 2·8 | 2·7 | 2·6 | 2·5 | 38               |

Was nun den von mir eingehaltenen Vorgang anbelangt, sei bemerkt, daß ich zunächst die einer bestimmten Höhe bei verschiedenem Formquotienten zukommenden Durchmesser als Mittelwerte zu bestimmen suchte, wozu das nach Höhe und Formquotienten sortierte Material den Anhaltspunkt bot.

Eine durchschnittliche Beziehung zwischen Höhe, Durchmesser und Formquotienten fand ich, wie erwähnt, in der Formel 10, in welcher für  $d_m$  als Maßeinheit das Centimeter zu nehmen ist.

$$q_2 = 0.385 + 0.345 \frac{h-1}{d_m} + 0.0326 \left( \frac{h-1}{d_m} \right)^2$$

woraus sich :

$$d_m = \frac{h-1}{\sqrt{30.7 q_2 + 16.27 - 5.30}} \text{ ergibt.}$$

Die mit der letzteren Formel in Centimetern berechneten Durchmesser wurden in die Formzahlen- und Formquotiententafel I eingestellt; sie sollen hauptsächlich dazu dienen, um die Einschätzung eines Schaftes in eine Formklasse zu erleichtern, wenn die direkte Bestimmung des Formquotienten unterlassen wird. Eine nicht unerhebliche Korrektur erfuhren diese, einer bestimmten Höhe und einem bestimmten Formquotienten durchschnittlich zukommenden Durchmesser für die Zwecke der Aufstellung von Massentafeln nach Höhe und Durchmesser. Zu dieser Korrektur gaben solche Untersuchungen in Beständen verschiedener Schlußformen, wie sie in der vorstehenden Tabelle 5 angeführt sind, die Veranlassung.

Wie bereits erwähnt, sind die Derbholzmassen als Schaftderbholzgehalte eingestellt. Das Astderbholz ist in der Astmasse enthalten. Ich halte diese Behandlung auch aus praktischen Gründen für angezeigt, weil das Astderbholz dem Schaftderbholze nicht gleichwertig ist und die Äste von Nadelhölzern wohl allgemein ohne Rücksicht auf die Stärkegrenze von 7 cm verwertet werden. Es wurde der Schaftreisholzinhalt nach den Angaben der folgenden Tabelle vom Schaftinhalte abgezogen und der verbleibende Rest als Schaftderbholz eingestellt.

Die Astholzformzahl  $f_a$  wurde im Anhalte an die empirisch ermittelte Formel 2:

$$f_a = \frac{1.5}{h} + 0.05 - 0.08 q_2$$

bestimmt, wobei  $q_2$  mit Hilfe der Tabelle 1 eingeschätzt wurde.

Die Ermittlung der Derbholzlängen verursachte in Anbetracht der praktisch geringen Schwankungen der Schaftreisholzlängen bei gleicher Höhe und gleichem Durchmesser keine besonderen Schwierigkeiten, wogegen die in der Tafel III eingestellten Derbholzmittenstärken, welche bestimmt wurden aus Höhe und Durchmesser, weil sie ebenso wie die Formzahlen von der Schaftform abhängen, gleich den Inhalten, auf den Spezialfall angewendet, nur in weiteren Grenzen zutreffen werden.

Neben den Inhalts- und Derbholzsortierungsdaten ist in der Massentafel III auch die der Höhe und dem Durchmesser des Stammes durchschnittlich zukommende Kronenlänge eingestellt. Auch diese Ermittlung erfolgte im Anhalte an die empirisch entwickelte Formel 9 mit Berücksichtigung des der Höhe und dem Durchmesser durchschnittlich zukommenden Formquotienten. Die Kronenlänge darf dazu benützt werden, um eine Korrektur der Massenangabe vorzunehmen. Ist im gegebenen Falle die relative Kronenlänge größer als die Angabe der Tafel, dann ist für je 5% Kronenlänge die Masse um 2% zu vermindern, bei geringerer Kronenlänge aber in gleichem Maße zu erhöhen.

## 6. Stärke und Inhalt der Weißföhrenrinde.

Die Untersuchungen über die Stärke der Kiefernrinde wurden an 136 Stämmen von nach Provenienz, Höhe und Alter verschiedenen Individuen vorgenommen. Von dieser Summe wurde an 12 Stämmen die Messung der Rindenstärke in Sektionen von je 1 m durchgeführt, um den Verlauf der Gesetzmäßigkeit der Zu- oder Abnahme zu studieren, während die übrigen Untersuchungen dazu dienten, um die ziffermäßigen Ansätze zu fundieren. Zu letzterem Zwecke genügt die Konstatierung der Rindenstärken am Stockabschnitte, an der Meßstelle in 1·3 m über dem Boden, bei  $\frac{1}{4}$ ,  $\frac{1}{2}$  und  $\frac{3}{4}$  der Schaftlänge. Eine Übersicht über die Hauptdaten des Materiales gibt folgende Tabelle:

**Tabelle 2.**

| Orts-<br>bezeichnung | Anzahl der unter-<br>suchten Stämme | Alter | Mittlerer<br>Durchmesser<br>$d_m$ | Mittlere Höhe<br>$h$ | Rindenstärke in Prozenten des Durchmessers |                                  |       |             |             |
|----------------------|-------------------------------------|-------|-----------------------------------|----------------------|--------------------------------------------|----------------------------------|-------|-------------|-------------|
|                      |                                     |       | cm                                | m                    | am<br>Stock-<br>abschnitte                 | in<br>1·3 m über<br>dem<br>Boden | $h_4$ | in<br>$h_2$ | in<br>$h_2$ |
| Wienerwald           | 2                                   | 9     | 2·9                               | 2·7                  | 24·5                                       | 9·0                              | 12·0  | 9·0         | 7·6         |
|                      | 2                                   | 13    | 6·5                               | 5·6                  | 21·0                                       | 10·6                             | 10·7  | 6·7         | 8·1         |
|                      | 2                                   | 17    | 5·7                               | 8·2                  | 19·8                                       | 11·3                             | 10·7  | 6·6         | 6·7         |
|                      | 7                                   | 46    | 15·2                              | 13·0                 | 14·5                                       | 13·8                             | 9·4   | 6·7         | 7·6         |
|                      | 25                                  | 56    | 28·2                              | 20·2                 | 13·7                                       | 12·5                             | 6·3   | 4·0         | 4·3         |
|                      | 3                                   | 75    | 36·0                              | 27·0                 | 13·0                                       | 12·3                             | 7·0   | 3·8         | 3·3         |
| Galizien .           | 11                                  | 80    | 37·5                              | 29·0                 | 15·7                                       | 14·4                             | 6·4   | 3·6         | 4·1         |
|                      | 18                                  | 87    | 34·5                              | 28·8                 | 12·7                                       | 12·5                             | 4·8   | 3·7         | 3·8         |
|                      | 12                                  | 90    | 31·0                              | 26·8                 | 13·9                                       | 12·2                             | 5·6   | 4·0         | 3·6         |
|                      | 17                                  | 93    | 39·2                              | 28·4                 | 12·4                                       | 12·7                             | 5·4   | 4·0         | 3·5         |
|                      | 19                                  | 108   | 39·2                              | 30·0                 | 11·6                                       | 10·3                             | 5·4   | 3·5         | 3·2         |
|                      | 10                                  | 114   | 44·5                              | 32·4                 | 11·1                                       | 10·5                             | 5·1   | 3·7         | 3·3         |
|                      | 8                                   | 130   | 41·4                              | 30·4                 | 14·4                                       | 11·0                             | 5·5   | 3·6         | 3·4         |

Aus der Tabelle 7 ist deutlich zu ersehen, daß die Rindenstärkenprozente am Stockabschnitte in  $\frac{1}{4}$ ,  $\frac{1}{2}$  und  $\frac{3}{4}$  der Höhe mit zunehmender Höhe und wachsendem Durchmesser, desgleichen auch mit dem Alter des Baumes abnehmen. Die Rindenprozente des Durchmessers in Brusthöhe machen hievon eine Ausnahme, deren Erklärung darin liegt, daß der Meßpunktdurchmesser eine sehr verschiedene Lage zur Stammlänge hat, je nachdem der Stamm lang oder kurz ist. An einem und demselben Stamme läßt sich aus dem Materiale mit Sicherheit konstatieren, daß die Rindenstärken in den verschiedenen Schaftteilen erheblich verschieden sind.

Außer diesem Materiale sind wegen Konstatierung des Einflusses klimatischer Faktoren des Standortes auf die Rindenstärke über Ansuchen der forstlichen Versuchsanstalt seitens der k. k. Forst- und Domänenverwaltung in Brixen (Tirol) in einem hochgelegenen, mit Zirben gemischten 40- bis 80jährigen Alpswalde Untersuchungen der Rindenstärke, die sich nur auf  $\frac{1}{4}$  und  $\frac{3}{4}$  der Schaftlänge erstreckten, vorgenommen worden, deren Ergebnisse hier angeführt werden.

**Tabelle 8.**

| Anzahl<br>der<br>Stämme | Mittlere<br>Höhe | Rindenstärke in Prozenten<br>des Durchmessers bei |                |
|-------------------------|------------------|---------------------------------------------------|----------------|
|                         |                  | $\frac{h}{4}$                                     | $\frac{3h}{4}$ |
| 6                       | 9.2              | 10.9                                              | 8.6            |
| 20                      | 12.9             | 9.1                                               | 7.0            |
| 4                       | 17.0             | 6.2                                               | 5.4            |

Ein Einfluß des Alters und des Klimas auf die Rindenstärke scheint nach den Daten der Tabelle 8 im Vergleiche zu den Angaben der Tabelle 7 nicht, oder wenigstens nicht in praktisch berücksichtigungswertem Maße vorhanden zu sein und es mag gerechtfertigt erscheinen, die Rindenstärke für praktische Zwecke als bloß von den Dimensionen Höhe und Stärke abhängig darzustellen. Da jedoch in den praktisch in Betracht kommenden Fällen, d. i. in haubaren Beständen, bei gleicher Höhe und verschiedenem Durchmesser die Rindenstärken keineswegs erheblich verschieden sind und diese Unterschiede gegenüber den Variationen der Rindenstärke in den verschiedenen Schaftteilen nicht von Belang sind, genügt es, die Abhängigkeit der Rindenstärke von der Baumhöhe und die Variationen der Rindenstärke in den verschiedenen Schaftteilen zu betrachten.

Entsprechend dem Verlaufe der Rindenstärken verhalten sich auch die Rindeninhalte. In folgender Tabelle sind diese als Prozente des Schaftvolumens an den zwölf sektionsweise untersuchten Stämmen vorgeführt.

**Tabelle 9.****Rindeninhalt.**

| Stamm Nr | Höhe | Durchm. in 13 m<br>über dem Boden | Alter<br>Jahre | Schaftinhalt<br>berindet | Rindeninhalt | Rindeninhalt<br>in Prozenten des<br>Schaftinhaltes |
|----------|------|-----------------------------------|----------------|--------------------------|--------------|----------------------------------------------------|
|          | m    | mm                                |                |                          |              |                                                    |
| 1        | 2.70 | 29.5                              | 11             | 0.00314                  | 0.00089      | 28.4                                               |
| 2        | 2.70 | 30                                | 11             | 0.00203                  | 0.00046      | 22.7                                               |
| Mittel   | 2.7  | 30                                | 11             | .                        | .            | 25.5                                               |
| 3        | 5.45 | 73.5                              | 14             | 0.01301                  | 0.00237      | 18.3                                               |
| 4        | 5.70 | 60.5                              | 14             | 0.01054                  | 0.00219      | 20.9                                               |
| Mittel   | 5.55 | 67                                | 14             | .                        | .            | 19.6                                               |
| 5        | 8.45 | 53.0                              | 23             | 0.01146                  | 0.00164      | 14.3                                               |
| 6        | 8.0  | 76.5                              | 23             | 0.02662                  | 0.00462      | 17.4                                               |
| Mittel   | 8.20 | 64                                | 23             | .                        | .            | 15.8                                               |
| 7        | 15.0 | 210                               | 43             | 0.2512                   | 0.0429       | 17.2                                               |
| 8        | 14.2 | 124                               | 43             | 0.0656                   | 0.0110       | 16.8                                               |
| 9        | 20.6 | 360                               | 58             | 0.8719                   | 0.1301       | 15.0                                               |
| 10       | 19.4 | 180                               | 58             | 0.2178                   | 0.0309       | 14.2                                               |
| Mittel   | 20.0 | 270                               | 58             | .                        | .            | 14.6                                               |
| 11       | 30.2 | 424                               | 109            | 1.9713                   | 0.2282       | 11.6                                               |
| 12       | 31.6 | 620                               | 107            | 4.270                    | 0.477        | 11.2                                               |
| Mittel   | 30.9 | 522                               | 108            | .                        | .            | 11.4                                               |

Zu einer ganz sicheren Konstatierung der Gesetzmäßigkeit, nach welcher sich die Abnahme der Rindenprocente mit wachsender Höhe vollzieht, ist allerdings das vorgeführte Material als unzureichend anzusehen. Da es sich jedoch hier hauptsächlich um die Bestimmung des Rindenabganges für praktische Zwecke, d. i. für haubare Bestände mit Höhen von etwa 18 m aufwärts handelt und die Differenzen in den Rindenprozenten in den unsicheren bestimmten geringeren Höhen dabei weniger von Bedeutung sind; weil ferner ein Fehler von 2% auch in haubaren Beständen angesichts der großen Differenzen, welche in einem und demselben Bestande selbst bei gleicher Höhe und gleichem Durchmesser im Rindeneinhalte vorkommen können, keinesfalls als groß anzusehen wäre, habe ich es dennoch versucht, einen gesetzmäßigen Ausgleich in den Rindenprozenten auf graphischem Wege zu treffen, dessen Resultate wenigstens in den Positionen vom 18 m Höhe aufwärts, Anspruch auf eine durchschnittliche Genauigkeit bis zur Fehlergrenze von 3% beanspruchen dürfen. Das Ergebnis dieses Ausgleiches ist in der nachfolgenden Tabelle 10 dargestellt. Die Daten dieser Tabelle sind zum praktischen Gebrauche bestimmt und sollen teils dazu dienen, um die in der Form- und Massentafel II eingestellten Durchmesser in rindenfreie zu reduzieren und damit die Bildung rindenfreier Sortimente zu ermöglichen, teils um den Rindenanteil der Masse an stehenden Stämmen oder Beständen auf Grundlage der Höhe anzuschätzen.

**Tabelle 10.****Rindenstärke und Rindeneinhalt.**

| Höhe | Rindenstärke (doppelte)<br>in Prozenten des Durchmessers |                            |        |        |     | Volumenprocente<br>der Rinde vom berindeten<br>Schaftinhalte | Höhe | Rindenstärke (doppelte)<br>in Prozenten des Durchmessers |                            |        |        |        | Volumenprocente<br>der Rinde vom berindeten<br>Schaftinhalte |
|------|----------------------------------------------------------|----------------------------|--------|--------|-----|--------------------------------------------------------------|------|----------------------------------------------------------|----------------------------|--------|--------|--------|--------------------------------------------------------------|
|      | am Stockabschnitte                                       | in 1·3 m<br>über dem Boden | in 1/4 | in 1/2 | 3/4 |                                                              |      | am Stockabschnitte                                       | in 1·3 m<br>über dem Boden | in 1/4 | in 1/2 | in 3/4 |                                                              |
|      |                                                          |                            |        |        |     |                                                              |      |                                                          |                            |        |        |        |                                                              |
|      | 22·5                                                     | 11·1                       | 14·1   | 10·5   | 9·2 | 25·5                                                         | 22   | 13·2                                                     | 12·6                       | 6·1    | 4·0    | 3·8    | 14·5                                                         |
| 4    | 21·6                                                     | 11·7                       | 13·3   | 9·7    | 8·6 | 24·5                                                         | 23   | 13·0                                                     | 12·5                       | 5·9    | 3·8    | 3·7    | 14·3                                                         |
| 5    | 20·7                                                     | 12·4                       | 12·6   | 9·1    | 8·0 | 23·6                                                         | 24   | 12·8                                                     | 12·4                       | 5·8    | 3·7    | 3·6    | 14·1                                                         |
| 6    | 20·0                                                     | 12·9                       | 12·0   | 8·5    | 7·5 | 22·7                                                         | 25   | 12·6                                                     | 12·3                       | 5·7    | 3·7    | 3·6    | 13·8                                                         |
| 7    | 19·2                                                     | 13·2                       | 11·3   | 8·0    | 7·1 | 21·9                                                         | 26   | 12·4                                                     | 12·1                       | 5·6    | 3·7    | 3·6    | 13·6                                                         |
| 8    | 18·5                                                     | 13·5                       | 10·7   | 7·5    | 6·7 | 21·0                                                         | 27   | 12·2                                                     | 11·9                       | 5·5    | 3·6    | 3·5    | 13·4                                                         |
| 9    | 18·0                                                     | 13·7                       | 10·1   | 7·1    | 6·4 | 20·3                                                         | 28   | 12·1                                                     | 11·7                       | 5·5    | 3·6    | 3·5    | 13·2                                                         |
| 10   | 17·4                                                     | 14·0                       | 9·6    | 6·7    | 6·1 | 19·7                                                         | 29   | 12·0                                                     | 11·6                       | 5·4    | 3·6    | 3·5    | 13·0                                                         |
| 11   | 16·7                                                     | 14·1                       | 9·2    | 6·4    | 5·8 | 19·0                                                         | 30   | 11·8                                                     | 11·4                       | 5·4    | 3·6    | 3·5    | 12·8                                                         |
| 12   | 16·3                                                     | 14·1                       | 8·7    | 6·1    | 5·6 | 18·5                                                         | 31   | 11·7                                                     | 11·3                       | 5·3    | 3·5    | 3·4    | 12·7                                                         |
| 13   | 15·8                                                     | 14·0                       | 8·3    | 5·8    | 5·3 | 18·0                                                         | 32   | 11·6                                                     | 11·2                       | 5·3    | 3·5    | 3·4    | 12·6                                                         |
| 14   | 15·4                                                     | 13·9                       | 8·0    | 5·5    | 5·0 | 17·5                                                         | 33   | 11·5                                                     | 11·1                       | 5·3    | 3·5    | 3·4    | 12·5                                                         |
| 15   | 15·0                                                     | 13·8                       | 7·6    | 5·3    | 4·8 | 17·0                                                         | 34   | 11·4                                                     | 11·0                       | 5·3    | 3·5    | 3·4    | 12·4                                                         |
| 16   | 14·7                                                     | 13·7                       | 7·4    | 5·0    | 4·6 | 16·6                                                         | 35   | 11·3                                                     | 10·9                       | 5·2    | 3·5    | 3·4    | 12·3                                                         |
| 17   | 14·4                                                     | 13·5                       | 7·1    | 4·8    | 4·4 | 16·2                                                         | 36   | 11·2                                                     | 10·8                       | 5·2    | 3·5    | 3·4    | 12·2                                                         |
| 18   | 14·2                                                     | 13·2                       | 6·9    | 4·6    | 4·2 | 15·8                                                         | 37   | 11·1                                                     | 10·7                       | 5·2    | 3·5    | 3·4    | 12·1                                                         |
| 19   | 13·9                                                     | 13·1                       | 6·6    | 4·4    | 4·1 | 15·4                                                         | 38   | 11·0                                                     | 10·6                       | 5·2    | 3·4    | 3·3    | 12·0                                                         |
| 20   | 13·7                                                     | 12·9                       | 6·4    | 4·3    | 4·0 | 15·0                                                         | 39   | 10·9                                                     | 10·5                       | 5·2    | 3·4    | 3·3    | 12·0                                                         |
| 21   | 13·6                                                     | 12·8                       | 6·2    | 4·1    | 3·9 | 14·7                                                         | 40   | 10·8                                                     | 10·4                       | 5·2    | 3·4    | 3·3    | 12·0                                                         |

Einen Überblick über die normale Verteilung der Rindenstärken und Rindeninhalte in den einzelnen Schaftteilen bei einem 20 m hohen Schafte gibt die folgende Tabelle 11.

**Tabelle 11.**

| Sektions-<br>mitte<br>bei der<br>Höhe  | Durchmesser  |               | Doppelte<br>Rinden-<br>stärke<br>im<br>Durch-<br>messer | Rinden-<br>stärke<br>in<br>Prozenten<br>des<br>Durch-<br>messers | Inhalt der Sektionen |            | Rindenin-<br>halt<br>der<br>Sektion | Rinden-<br>inhalt<br>in<br>Prozenten<br>des<br>Inhaltes<br>der<br>berindeten<br>Sektionen |
|----------------------------------------|--------------|---------------|---------------------------------------------------------|------------------------------------------------------------------|----------------------|------------|-------------------------------------|-------------------------------------------------------------------------------------------|
|                                        | mit<br>Rinde | ohne<br>Rinde |                                                         |                                                                  | mit Rinde            | ohne Rinde |                                     |                                                                                           |
|                                        |              |               |                                                         |                                                                  | $m^3$                |            |                                     |                                                                                           |
| 0.5                                    | 278          | 239           | 39                                                      | 14.1                                                             | 0.06070              | 0.04486    | 0.01584                             | 26.1                                                                                      |
| 1.5                                    | 255          | 227           | 28                                                      | 10.1                                                             | 0.5107               | 0.4047     | 0.1060                              | 20.7                                                                                      |
| 2.5                                    | 238          | 217           | 21                                                      | 8.1                                                              | 0.4449               | 0.3698     | 0.0751                              | 16.0                                                                                      |
| 3.5                                    | 224          | 207           | 17                                                      | 7.6                                                              | 0.3941               | 0.3265     | 0.0576                              | 14.6                                                                                      |
| 4.5                                    | 214          | 200           | 14                                                      | 6.6                                                              | 0.3597               | 0.3142     | 0.0455                              | 12.6                                                                                      |
| 5.5                                    | 205          | 193           | 12                                                      | 5.9                                                              | 0.3301               | 0.2926     | 0.0375                              | 11.4                                                                                      |
| 6.5                                    | 196          | 185           | 11                                                      | 5.6                                                              | 0.3017               | 0.2688     | 0.0329                              | 10.9                                                                                      |
| 7.5                                    | 188          | 178           | 10                                                      | 5.3                                                              | 0.2776               | 0.2489     | 0.0287                              | 10.4                                                                                      |
| 8.5                                    | 182          | 173           | 9                                                       | 4.9                                                              | 0.2602               | 0.2351     | 0.0251                              | 9.7                                                                                       |
| 9.5                                    | 175          | 167           | 8                                                       | 4.6                                                              | 0.2405               | 0.2190     | 0.0215                              | 9.0                                                                                       |
| 10.5                                   | 168          | 161           | 7                                                       | 4.2                                                              | 0.2217               | 0.2036     | 0.0181                              | 8.2                                                                                       |
| 11.5                                   | 162          | 156           | 6                                                       | 3.7                                                              | 0.2061               | 0.1911     | 0.0150                              | 7.3                                                                                       |
| 12.5                                   | 152          | 146           | 6                                                       | 4.0                                                              | 0.1815               | 0.1674     | 0.0141                              | 7.8                                                                                       |
| 13.5                                   | 144          | 139           | 5                                                       | 3.5                                                              | 0.1629               | 0.1517     | 0.0112                              | 6.9                                                                                       |
| 14.5                                   | 124          | 120           | 4                                                       | 3.2                                                              | 0.1208               | 0.1131     | 0.0077                              | 6.4                                                                                       |
| 15.5                                   | 102          | 98            | 4                                                       | 3.9                                                              | 0.0817               | 0.0754     | 0.0063                              | 7.7                                                                                       |
| 16.5                                   | 80           | 77            | 3                                                       | 4.2                                                              | 0.0503               | 0.0466     | 0.0037                              | 7.4                                                                                       |
| 17.5                                   | 58           | 56            | 2                                                       | 3.4                                                              | 0.0264               | 0.0246     | 0.0018                              | 6.8                                                                                       |
| 18.5                                   | 35           | 33            | 2                                                       | 5.9                                                              | 0.0096               | 0.0085     | 0.0011                              | 11.5                                                                                      |
| 19.5                                   | 12           | 11            | 1.5                                                     | 12.5                                                             | 0.0011               | 0.0009     | 0.0002                              | 18.2                                                                                      |
| Summe                                  |              |               |                                                         |                                                                  | 0.47886              | 0.41211    | 0.06675                             | 14.0                                                                                      |
| Für das untere 1. Schaftviertel ist    |              |               |                                                         |                                                                  | 0.23164              | 0.18738    | 0.04426                             | 19.2                                                                                      |
| 2.                                     |              |               |                                                         |                                                                  | 0.14101              | 0.12644    | 0.01457                             | 10.4                                                                                      |
| 3.                                     |              |               |                                                         |                                                                  | 0.08930              | 0.08269    | 0.00661                             | 7.4                                                                                       |
| " " " 4.                               |              |               |                                                         |                                                                  | 0.01691              | 0.01560    | 0.00131                             | 7.7                                                                                       |
| Für die untere 1. Stammhälfte ist      |              |               |                                                         |                                                                  | 0.37265              | 0.31382    | 0.05883                             | 15.8                                                                                      |
| " " obere 2. " "                       |              |               |                                                         |                                                                  | 0.10621              | 0.09829    | 0.00792                             | 7.5                                                                                       |
| Für die unteren drei Schaftviertel ist |              |               |                                                         |                                                                  | 0.46195              | 0.39651    | 0.06544                             | 14.2                                                                                      |
| oberen                                 |              |               |                                                         |                                                                  | 0.24722              | 0.22473    | 0.02249                             | 9.1                                                                                       |

Zunächst ist aus dieser Darstellung die bereits von Flury hervorgehobene Erscheinung zu konstatieren, daß die Rindenprozente am Stock- und Gipfelende höher sind als die der benachbarten Schaftteile. Von größerer praktischer Bedeutung ist jedoch die Tatsache, daß die

Rindenprocente in den einzelnen Schaftteilen sehr erheblich differieren. Während bei Fichte, Tanne und Lärche die Rindenprocente in  $1\frac{1}{3} m$ ,  $\frac{1}{4}$ ,  $\frac{1}{2}$  und  $\frac{3}{4}$  der Höhe nur unerhebliche Differenzen aufweisen, sinkt das Rindenprocent bei der Weißföhre zunächst sehr rasch bis zu  $\frac{1}{4}$  der Höhe und auch noch weiter weniger erheblich bis zur Stammitte, um dann etwa bis zu  $\frac{5}{8}$  der Stammlänge annähernd gleichzubleiben. Dieses Verhalten des Rindenbanes der Weißföhre hat zur Folge, daß die Rindeninhaltsprocente in den verschiedenen Schaftteilen verschieden sind. So sehen wir, daß das Rindenprocent von 19·2 im ersten Schaftviertel schon auf 10·4 % im zweiten Schaftviertel sinkt. Das Rindenprocent der unteren Schafthälfte mit 15·8 ist gegenüber dem Rindenprocente der oberen Schafthälfte per 7·5 % gleichfalls noch um die Hälfte geringer. Dagegen unterscheidet sich das Rindenprocent des bei  $\frac{3}{4}$  der Höhe entgipfelten Schaftes mit 14·2 % nicht viel von dem Rindenprocente des ganzen Schaftes mit 14 %. Diese letztere Konstatierung läßt eine praktische Anwendung insofern zu, als daraus zu folgern ist, daß bei der Ausformung von Langnutzholz das für die mittlere Bestandeshöhe ermittelte Rindenvolumprocent für den ganzen Schaft ohneweiters auch auf das ausgeformte Langnutzholz anwendbar ist.

Eine weitere, nicht ganz belanglose Folgerung aus dem, an dem vorgeführten Normalstamme dargestellten Verhaltens der Kiefernringenstärke ist die Änderung der Schaftform durch das Entrinden. Der entrindete Weißföhrenschaft ist vollholziger als der berindete. Diese Folgerung ergibt sich unmittelbar aus den höheren perzentuellen Rindenstärken der unteren Stammdurchmesser gegenüber den oberen. Zahlenmäßig läßt sich diese Formänderung sowohl mit Hilfe der Durchmesserquotienten als auch mittels der Schaftformzahl darstellen.

#### Durchmesser mit Rinde:

|                           |                              |                              |                              |
|---------------------------|------------------------------|------------------------------|------------------------------|
| in $1\frac{1}{3} m = d_m$ | in $\frac{1}{4} h = d_{1/4}$ | in $\frac{1}{2} h = d_{1/2}$ | in $\frac{3}{4} h = d_{3/4}$ |
| 26 cm                     | 21·2 cm                      | 17·2 cm                      | 11·4 cm                      |

#### Formquotienten mit Rinde:

|                             |                             |                             |                                     |
|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|
| $\frac{d_{1/4}}{d_m} = q_1$ | $\frac{d_{1/2}}{d_m} = q_2$ | $\frac{d_{3/4}}{d_m} = q_3$ | $\frac{d_{3/4}}{d_{1/4}} = q_{3/4}$ |
| 0·816                       | 0·662                       | 0·439                       | 0·538                               |

#### Durchmesser ohne Rinde:

|         |           |           |           |
|---------|-----------|-----------|-----------|
| $d_m$   | $d_{1/4}$ | $d_{1/2}$ | $d_{3/4}$ |
| 22·8 cm | 19·8 cm   | 16·4 cm   | 11·0 cm   |

#### Formquotienten ohne Rinde:

|       |       |       |           |
|-------|-------|-------|-----------|
| $q_1$ | $q_2$ | $q_3$ | $q_{3/4}$ |
| 0·868 | 0·721 | 0·483 | 0·556     |

Es sind demnach sämtliche Formquotienten im unberindeten Zustande höher als im berindeten.

Die unechte Schaftformzahl für den berindeten Schaft beträgt 0·451, für den unberindeten 0·505.

Die Weißföhre, die im berindeten Zustande durchschnittlich erheblich abholziger ist als die Fichte, darf sich unberindet in Bezug auf Vollholzigkeit der Fichte an die Seite stellen.

Wenden wir uns der Frage nach der zweckmäßigen Art der Bestimmung des Rindenvolumens für gefällte Stämme zu, so ist aus der Tabelle 11 sofort zu entnehmen, daß Stammabschnitte von Weißföhren bis zur Stammitte sehr verschiedene Rindenprocente aufweisen. Eine genaue Bestimmung des Rindengehaltes von Stammabschnitten auf Grund von Hilfstafeln wäre deshalb auch nur dann möglich, wenn neben der Höhe des ganzen Schaftes auch der Schaftteil

bekannt sein würde, aus welchem der Stammabschnitt ausgeformt ist. Da jedoch aufbereitetes Kiefernrundholz (Klötze) in der Regel im unentrindeten Zustande kubiert wird, verliert diese Frage an praktischer Bedeutung. Eine richtige Anschätzung des Rindenverlustes an Nutzholzsortimenten wird aber stets spezieller Erhebungen nach Sektionen bedürfen, insofern es sich nicht um Langnutzholz handelt. Wir haben bereits gesehen, daß das Rindenprozent von Langnutzholz, welches den untersten Schaftteil enthält, von dem Rindenprocente des ganzen Schaftes nur unerheblich abweicht und können daher die Kubierungsfrage für Rindenvolumenermittlungen auf ganze Schäfte beschränken.

Die Kubierung nach dem Mittendurchmesser für diesen Zweck ist auch, abgesehen davon, daß diese Methode die Formänderung durch die Entrindung unberücksichtigt ließe, bei der Weißföhre deshalb nicht anwendbar, weil die relative Rindenstärke in der Schaftmitte dem Minimum schon sehr nahe ist, daher die Inhaltsdifferenz und das Rindenprozent zu klein ausfallen würden. In unserem Beispiele berechnet sich nach der Mittenstärkenkubierung für den ganzen Schaft ein Rindeninhaltsprozent von 9·8, für die unteren drei Schaftviertel von 10·4%, daher gegenüber dem Ergebnisse nach der sektionsweisen Kubierung mit 14 beziehungsweise 14·2% erheblich zu wenig.

Eine auch für diesen Zweck theoretisch brauchbare Kubierungsmethode ist die mit Hilfe der Durchmesser  $d_m$  und  $d_{1/2}$ , das ist mittels des Formquotienten  $q_2$ .

Nach der Schaftformzahlformel 1

$$f_m = 0.896 q_2 - 0.16 + \frac{0.34}{q_2 h}$$

berechnet sich für unseren Normalstamm für  $h = 20$  und  $q_2 = 0.662$ , die Schaftformzahl für den berindeten Schaft mit 0.459. Für den unberindeten Schaft ist  $q_2 = 0.721$  und hiermit die Schaftformzahl 0.510. Beide Formzahlen stimmen mit den nach der sektionsweisen Kubierung gefundenen per 0.451 beziehungsweise 0.505 genügend überein, daher auch die Inhalte und das Rindenprozent für den ganzen Schaft.

Diese Formel wird jedoch einen richtigen Rindeninhalt nur unter der Voraussetzung liefern, daß die Rindenstärken beider Durchmesser richtig ermittelt wurde. Dies stößt jedoch praktisch auf Schwierigkeiten, weil die Rindenstärken bei einem Stamme an den gleichen Stellen von dem Durchschnitte häufig nicht unerheblich abweichen. Zu einer richtigen Ermittlung des Rindeninhaltes in einem einzelnen Falle wird daher die sektionsweise Kubierung Anwendung finden müssen.

Da es sich uns jedoch um die Ermittlung von Durchschnittsgrößen handelt und wir bereits ausgeglichene durchschnittliche Rindenstärken in vier Durchmessern bei gleichen relativen Abständen besitzen (Tabelle 10), können wir nunmehr die Rindeninhalte mit Hilfe der durchschnittlichen Rindenstärken und der Kubierung in fünf Sektionen mit genügender Genauigkeit ermitteln. Wir wenden dabei folgende, auf der Bildung der Mittenquersfläche der Sektion beruhende Formel an. Aus:

$$v = 1.2 \left( \frac{g_0 + g_m}{2} \right) + \left( \frac{h}{4} - 1.2 \right) \left( \frac{g_m + g_{1/4}}{2} \right) + \frac{h}{4} \left( \frac{g_{1/4} + g_{1/2}}{2} \right) + \frac{h}{4} \left( \frac{g_{1/2} + g_{3/4}}{2} \right) + \frac{h}{4} g_{3/4}$$

findet man:

$$v = 0.6 \left( g_0 - g_{1/4} \right) + \frac{h}{4} \left( \frac{g_m}{2} + g_{1/4} + g_{1/2} + g_{3/4} \right) \quad 2$$

Mit dieser Formel wurde an Stämmen verschiedener Höhen der Inhalt mit und ohne Rinde berechnet, wobei die Reduktion der berindeten Durchmesser mit den Rindenstärkenprozenten der Tabelle 10 vorgenommen wurde. Nachfolgende Übersicht gibt einen Auszug aus dieser Berechnung.

**Tabelle 12.**

| Höhe     | Durchmesser<br>in 1·3 m<br>über dem<br>Boden | I n h a l t          |            | Rindeninhalt<br>in % des<br>berindeten<br>Schaftes |
|----------|----------------------------------------------|----------------------|------------|----------------------------------------------------|
|          |                                              | mit Rinde            | ohne Rinde |                                                    |
| <i>m</i> | <i>mm</i>                                    | <i>m<sup>3</sup></i> |            |                                                    |
| 6        | 60                                           | 0·00986              | 0 00764    | 22·6                                               |
| 10       | 110                                          | 0·0483               | 0·0383     | 19·6                                               |
| 15       | 180                                          | 0·1868               | 0·1544     | 17·2                                               |
| 20       | 250                                          | 0·4573               | 0·3885     | 15·0                                               |
| 30       | 420                                          | 1·854                | 1·610      | 13·2                                               |
| 60       | 660                                          | 5·321                | 4·651      | 12·6                                               |

Die Rindeninhaltsprocente stimmen mit den nach der sektionsweisen Kubierung gefundenen (Tabelle 9) gut überein. Es wurde deshalb auch diese Berechnung benützt, um die Rindeninhaltsprocente, wie sie in der Tabelle 10 angeführt sind, aufzustellen.

Die Ergebnisse dieser Untersuchung lassen sich in folgenden Sätzen zusammenfassen:

1. Die Rindenstärke (Differenz zwischen berindetem und unberindetem Durchmesser) ist bei der Weißföhre in den verschiedenen Schaftteilen sehr verschieden. Die Rindenstärken in Prozenten des berindeten Durchmessers sind am Stockabschnitte und im Gipfelteile am höchsten und erreichen im dritten Schaftviertel ein Minimum. Die Rindenstärken- und Rindeninhaltsprocente sind nebst dem Funktionen von Alter, Durchmesser oder Höhe, in der Weise, daß sie mit zunehmendem Alter, Brusthöhendurchmesser oder Höhe eines Baumschaftes sinken.

2. Die Rindeninhaltsprocente der Weißföhre variieren als Durchschnittsgrößen in den Höhen von 18 bis 40 m zwischen 16 bis 12 Prozent. Bei der Reduktion der berindeten Masse ganzer Bestände im stehenden Zustande ist daher die Bestandeshöhe zu beachten.

3. Das für den ganzen Schaft gültige Rindeninhaltsprozent darf unbedenklich auch für das Schaftderbholz, selbst für Langnutzholz, welches den Stockabschnitt (Wurzelanlauf) enthält, Anwendung finden.

4. Für den Rindeninhalt von Ab- und Ausschnitten des Schaftes läßt sich ein brauchbares durchschnittliches Rindeninhaltsprozent nicht ermitteln, weil die Rindenprocente in den einzelnen Schaftteilen, beispielsweise bei 4 m langen Abschnitten haubarer Hölzer, von 7 bis 20% Prozent differieren können.

5. Der Kieferschaft gewinnt durch die Entrindung an Vollholzigkeit.



# I.

## Formzahlen- und Formquotiententafel.

---

Zu gebrauchen

mit dem Eingange: Höhe und Formquotient  $d_{1/2} : d_m = q_2$ .

---

| Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |  |  |
|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|
|                      | Formquotient<br>$q_1 = 0.52$ |       | Formzahl |              |                                                      |                                          |                      | Formquotient<br>$q_2 = 0.54$ |       | Formzahl |              |                                                      |                                          |  |  |  |  |  |  |  |
|                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |  |  |  |  |  |  |  |
| 6                    | 0.843                        | 0.249 | 0.415    | 0.673        | 13.3                                                 | 83                                       | 6                    | 0.851                        | 0.269 | 0.429    | 0.687        | 11.6                                                 | 81                                       |  |  |  |  |  |  |  |
| 7                    | 821                          | 266   | 400      | 622          | 15.9                                                 | 77                                       | 7                    | 830                          | 286   | 414      | 635          | 13.9                                                 | 74                                       |  |  |  |  |  |  |  |
| 8                    | 803                          | 230   | 387      | 581          | 18.6                                                 | 72                                       | 8                    | 813                          | 300   | 402      | 596          | 16.3                                                 | 69                                       |  |  |  |  |  |  |  |
| 9                    | 791                          | 290   | 379      | 553          | 21.2                                                 | 68                                       | 9                    | 802                          | 309   | 394      | 567          | 18.6                                                 | 66                                       |  |  |  |  |  |  |  |
| 10                   | 781                          | 298   | 371      | 529          | 23.9                                                 | 65                                       | 10                   | 792                          | 316   | 387      | 554          | 20.9                                                 | 63                                       |  |  |  |  |  |  |  |
| 11                   | 773                          | 305   | 365      | 509          | 26.5                                                 | 63                                       | 11                   | 784                          | 323   | 381      | 524          | 23.2                                                 | 61                                       |  |  |  |  |  |  |  |
| 12                   | 766                          | 310   | 360      | 492          | 29.2                                                 | 61                                       | 12                   | 777                          | 328   | 376      | 503          | 25.5                                                 | 59                                       |  |  |  |  |  |  |  |
| 13                   | 760                          | 315   | 356      | 479          | 31.9                                                 | 59                                       | 13                   | 771                          | 332   | 372      | 494          | 27.9                                                 | 57                                       |  |  |  |  |  |  |  |
| 14                   | 755                          | 319   | 353      | 468          | 34.5                                                 | 57                                       | 14                   | 766                          | 337   | 369      | 483          | 30.2                                                 | 56                                       |  |  |  |  |  |  |  |
| 15                   | 751                          | 322   | 350      | 458          | 37.2                                                 | 56                                       | 15                   | 762                          | 340   | 366      | 473          | 32.5                                                 | 54                                       |  |  |  |  |  |  |  |
| 16                   | 747                          | 325   | 347      | 448          | 39.8                                                 | 55                                       | 16                   | 759                          | 343   | 363      | 463          | 34.8                                                 | 53                                       |  |  |  |  |  |  |  |
| 17                   | 743                          | 328   | 344      | 440          | 42.5                                                 | 54                                       | 17                   | 756                          | 346   | 361      | 456          | 37.1                                                 | 52                                       |  |  |  |  |  |  |  |
| 18                   | 740                          | 330   | 342      | 433          | 45.1                                                 | 53                                       | 18                   | 752                          | 348   | 359      | 449          | 39.5                                                 | 52                                       |  |  |  |  |  |  |  |
| 19                   | 737                          | 332   | 340      | 427          | 47.8                                                 | 52                                       | 19                   | 750                          | 350   | 357      | 443          | 41.8                                                 | 51                                       |  |  |  |  |  |  |  |
| 20                   | 735                          | 334   | 338      | 421          | 50.2                                                 | 52                                       | 20                   | 747                          | 352   | 355      | 437          | 44.1                                                 | 50                                       |  |  |  |  |  |  |  |
| 21                   | 733                          | 336   | 337      | 416          | 53.1                                                 | 51                                       | 21                   | 745                          | 353   | 354      | 432          | 46.4                                                 | 49                                       |  |  |  |  |  |  |  |
| 22                   | 731                          | 338   | 336      | 411          | 55.7                                                 | 51                                       | 22                   | 743                          | 355   | 353      | 427          | 48.7                                                 | 49                                       |  |  |  |  |  |  |  |
| 23                   | 729                          | 339   | 334      | 407          | 58.4                                                 | 50                                       | 23                   | 742                          | 356   | 351      | 423          | 51.0                                                 | 48                                       |  |  |  |  |  |  |  |
| 24                   | 727                          | 341   | 333      | 404          | 61.0                                                 | 49                                       | 24                   | 740                          | 358   | 350      | 420          | 53.4                                                 | 48                                       |  |  |  |  |  |  |  |
| 25                   | 726                          | 342   | 332      | 400          | 63.7                                                 | 49                                       | 25                   | 739                          | 359   | 349      | 416          | 55.7                                                 | 47                                       |  |  |  |  |  |  |  |
| 26                   | 725                          | 343   | 331      | 397          | 66.3                                                 | 44                                       | 26                   | 737                          | 360   | 348      | 413          | 58.0                                                 | 47                                       |  |  |  |  |  |  |  |
| 27                   | 723                          | 344   | 330      | 394          | 69.0                                                 | 48                                       | 27                   | 736                          | 361   | 347      | 410          | 60.3                                                 | 47                                       |  |  |  |  |  |  |  |
| 28                   | 722                          | 345   | 329      | 391          | 71.6                                                 | 48                                       | 28                   | 735                          | 362   | 346      | 407          | 62.7                                                 | 46                                       |  |  |  |  |  |  |  |
| 29                   | 721                          | 346   | 329      | 389          | 74.4                                                 | 47                                       | 29                   | 734                          | 363   | 346      | 405          | 65.0                                                 | 46                                       |  |  |  |  |  |  |  |
| 30                   | 720                          | 347   | 328      | 386          | 76.9                                                 | 47                                       | 30                   | 733                          | 364   | 345      | 402          | 67.3                                                 | 46                                       |  |  |  |  |  |  |  |
| 31                   | 719                          | 347   | 327      | 383          | 79.6                                                 | 47                                       | 31                   | 731                          | 364   | 344      | 399          | 69.6                                                 | 45                                       |  |  |  |  |  |  |  |
| 32                   | 718                          | 348   | 326      | 381          | 82.3                                                 | 46                                       | 32                   | 730                          | 365   | 344      | 398          | 71.0                                                 | 45                                       |  |  |  |  |  |  |  |
| 33                   | 717                          | 349   | 326      | 379          | 84.9                                                 | 46                                       | 33                   | 729                          | 366   | 343      | 395          | 74.3                                                 | 45                                       |  |  |  |  |  |  |  |
| 34                   | 716                          | 350   | 325      | 377          | 87.6                                                 | 46                                       | 34                   | 728                          | 366   | 343      | 394          | 76.6                                                 | 45                                       |  |  |  |  |  |  |  |
| 35                   | 715                          | 350   | 325      | 376          | 90.2                                                 | 46                                       | 35                   | 728                          | 367   | 342      | 392          | 78.9                                                 | 44                                       |  |  |  |  |  |  |  |
| 36                   | 715                          | 351   | 324      | 374          | 92.9                                                 | 46                                       | 36                   | 727                          | 367   | 341      | 390          | 81.2                                                 | 44                                       |  |  |  |  |  |  |  |
| 37                   | 714                          | 351   | 324      | 372          | 95.5                                                 | 45                                       | 37                   | 727                          | 368   | 341      | 388          | 83.5                                                 | 44                                       |  |  |  |  |  |  |  |
| 38                   | 713                          | 352   | 323      | 370          | 98.2                                                 | 45                                       | 38                   | 726                          | 368   | 341      | 387          | 85.8                                                 | 44                                       |  |  |  |  |  |  |  |
| 39                   | 713                          | 352   | 323      | 370          | 101                                                  | 45                                       | 39                   | 726                          | 369   | 340      | 386          | 88.2                                                 | 44                                       |  |  |  |  |  |  |  |
| 40                   | 712                          | 353   | 322      | 369          | 104                                                  | 45                                       | 40                   | 725                          | 369   | 340      | 385          | 90.5                                                 | 44                                       |  |  |  |  |  |  |  |

| Baumhöhe | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |
|----------|------------------------------|-------|----------|--------------|-----------------------------------------|------------------------------------------|----------|------------------------------|-------|----------|--------------|-----------------------------------------|------------------------------------------|--|--|--|--|--|
|          | Formquotient<br>$q_2 = 0.56$ |       | Formzahl |              |                                         |                                          |          | Formquotient<br>$q_2 = 0.58$ |       | Formzahl |              |                                         |                                          |  |  |  |  |  |
|          | $q_1$                        | $q_3$ | $m$      |              |                                         |                                          | $q_1$    | $q_3$                        | $m$   |          |              |                                         |                                          |  |  |  |  |  |
| 6        | 0.860                        | 0.291 | 0.443    | 0.698        | 10.3                                    | 76                                       | 6        | 0.869                        | 0.311 | 0.458    | 0.717        | 9.3                                     | 73                                       |  |  |  |  |  |
| 7        | 839                          | 307   | 429      | 618          | 12.4                                    | 71                                       | 7        | 849                          | 327   | 443      | 661          | 11.2                                    | 67                                       |  |  |  |  |  |
| 8        | 823                          | 320   | 417      | 608          | 14.4                                    | 66                                       | 8        | 834                          | 339   | 432      | 622          | 13.0                                    | 63                                       |  |  |  |  |  |
| 9        | 812                          | 329   | 409      | 580          | 16.5                                    | 63                                       | 9        | 823                          | 348   | 424      | 594          | 14.9                                    | 60                                       |  |  |  |  |  |
| 10       | 803                          | 336   | 403      | 558          | 18.5                                    | 60                                       | 10       | 814                          | 355   | 418      | 572          | 16.7                                    | 57                                       |  |  |  |  |  |
| 11       | 795                          | 342   | 397      | 538          | 20.6                                    | 58                                       | 11       | 806                          | 361   | 412      | 552          | 18.6                                    | 56                                       |  |  |  |  |  |
| 12       | 789                          | 347   | 393      | 523          | 22.7                                    | 56                                       | 12       | 800                          | 366   | 408      | 537          | 20.5                                    | 54                                       |  |  |  |  |  |
| 13       | 783                          | 352   | 389      | 509          | 24.8                                    | 54                                       | 13       | 795                          | 370   | 404      | 523          | 22.3                                    | 52                                       |  |  |  |  |  |
| 14       | 778                          | 356   | 385      | 497          | 26.8                                    | 53                                       | 14       | 790                          | 373   | 401      | 512          | 24.2                                    | 51                                       |  |  |  |  |  |
| 15       | 774                          | 359   | 382      | 487          | 28.9                                    | 52                                       | 15       | 786                          | 377   | 393      | 502          | 26.0                                    | 50                                       |  |  |  |  |  |
| 16       | 771                          | 362   | 380      | 479          | 31.0                                    | 51                                       | 16       | 783                          | 379   | 396      | 494          | 27.9                                    | 49                                       |  |  |  |  |  |
| 17       | 767                          | 364   | 378      | 471          | 33.0                                    | 50                                       | 17       | 780                          | 382   | 394      | 486          | 29.8                                    | 48                                       |  |  |  |  |  |
| 18       | 765                          | 366   | 376      | 465          | 35.1                                    | 49                                       | 18       | 777                          | 384   | 392      | 480          | 31.6                                    | 47                                       |  |  |  |  |  |
| 19       | 762                          | 368   | 374      | 453          | 37.1                                    | 48                                       | 19       | 774                          | 386   | 390      | 473          | 33.5                                    | 46                                       |  |  |  |  |  |
| 20       | 760                          | 370   | 372      | 452          | 39.2                                    | 47                                       | 20       | 772                          | 387   | 388      | 467          | 35.3                                    | 45                                       |  |  |  |  |  |
| 21       | 758                          | 372   | 371      | 447          | 41.2                                    | 47                                       | 21       | 770                          | 389   | 387      | 462          | 37.2                                    | 45                                       |  |  |  |  |  |
| 22       | 756                          | 373   | 370      | 443          | 43.3                                    | 46                                       | 22       | 769                          | 390   | 386      | 458          | 39.1                                    | 44                                       |  |  |  |  |  |
| 23       | 754                          | 374   | 368      | 438          | 45.4                                    | 46                                       | 23       | 767                          | 392   | 385      | 454          | 40.9                                    | 44                                       |  |  |  |  |  |
| 24       | 753                          | 376   | 367      | 435          | 47.4                                    | 45                                       | 24       | 765                          | 393   | 383      | 450          | 42.8                                    | 43                                       |  |  |  |  |  |
| 25       | 751                          | 377   | 366      | 431          | 49.5                                    | 45                                       | 25       | 764                          | 394   | 382      | 446          | 44.6                                    | 43                                       |  |  |  |  |  |
| 26       | 750                          | 378   | 365      | 428          | 51.6                                    | 45                                       | 26       | 763                          | 395   | 382      | 444          | 46.5                                    | 43                                       |  |  |  |  |  |
| 27       | 749                          | 379   | 365      | 425          | 53.6                                    | 44                                       | 27       | 762                          | 396   | 381      | 440          | 48.3                                    | 42                                       |  |  |  |  |  |
| 28       | 748                          | 380   | 364      | 423          | 55.7                                    | 44                                       | 28       | 761                          | 397   | 380      | 438          | 50.2                                    | 42                                       |  |  |  |  |  |
| 29       | 747                          | 381   | 363      | 420          | 57.7                                    | 44                                       | 29       | 760                          | 398   | 379      | 435          | 52.1                                    | 42                                       |  |  |  |  |  |
| 30       | 746                          | 382   | 362      | 417          | 59.7                                    | 43                                       | 30       | 759                          | 398   | 379      | 433          | 53.9                                    | 42                                       |  |  |  |  |  |
| 31       | 745                          | 383   | 362      | 415          | 61.9                                    | 43                                       | 31       | 758                          | 399   | 378      | 430          | 55.8                                    | 41                                       |  |  |  |  |  |
| 32       | 744                          | 383   | 361      | 413          | 63.9                                    | 43                                       | 32       | 757                          | 400   | 377      | 428          | 57.7                                    | 41                                       |  |  |  |  |  |
| 33       | 743                          | 384   | 360      | 410          | 66.0                                    | 43                                       | 33       | 756                          | 400   | 376      | 426          | 59.5                                    | 41                                       |  |  |  |  |  |
| 34       | 742                          | 385   | 360      | 409          | 68.1                                    | 42                                       | 34       | 755                          | 401   | 376      | 424          | 61.4                                    | 41                                       |  |  |  |  |  |
| 35       | 742                          | 385   | 359      | 407          | 70.1                                    | 42                                       | 35       | 755                          | 401   | 376      | 423          | 63.2                                    | 40                                       |  |  |  |  |  |
| 36       | 741                          | 386   | 359      | 406          | 72.2                                    | 42                                       | 36       | 754                          | 402   | 375      | 421          | 65.1                                    | 40                                       |  |  |  |  |  |
| 37       | 740                          | 386   | 358      | 404          | 74.2                                    | 42                                       | 37       | 753                          | 402   | 375      | 420          | 66.9                                    | 40                                       |  |  |  |  |  |
| 38       | 740                          | 386   | 358      | 403          | 76.4                                    | 42                                       | 38       | 753                          | 403   | 374      | 418          | 68.8                                    | 40                                       |  |  |  |  |  |
| 39       | 739                          | 387   | 358      | 402          | 78.4                                    | 41                                       | 39       | 752                          | 403   | 374      | 417          | 70.7                                    | 40                                       |  |  |  |  |  |
| 40       | 738                          | 387   | 357      | 400          | 80.5                                    | 41                                       | 40       | 752                          | 404   | 374      | 417          | 72.5                                    | 40                                       |  |  |  |  |  |

| Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |  |  |
|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|
|                      | Formquotient<br>$q_2 = 0.60$ |       | Formzahl |              |                                                      |                                          |                      | Formquotient<br>$q_2 = 0.62$ |       | Formzahl |              |                                                      |                                          |  |  |  |  |  |  |  |
|                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |  |  |  |  |  |  |  |
| 6                    | 0.879                        | 0.330 | 0.473    | 0.725        | 8.5                                                  | 71                                       | 6                    | 0.888                        | 0.350 | 0.487    | 0.737        | 7.8                                                  | 69                                       |  |  |  |  |  |  |  |
| 7                    | 859                          | 346   | 459      | 674          | 10.1                                                 | 65                                       | 7                    | 870                          | 364   | 474      | 637          | 9.4                                                  | 63                                       |  |  |  |  |  |  |  |
| 8                    | 844                          | 358   | 448      | 635          | 11.9                                                 | 61                                       | 8                    | 855                          | 376   | 464      | 649          | 10.9                                                 | 59                                       |  |  |  |  |  |  |  |
| 9                    | 834                          | 366   | 441      | 608          | 13.6                                                 | 58                                       | 9                    | 845                          | 384   | 457      | 620          | 12.5                                                 | 56                                       |  |  |  |  |  |  |  |
| 10                   | 825                          | 373   | 435      | 586          | 15.3                                                 | 55                                       | 10                   | 836                          | 391   | 451      | 598          | 14.1                                                 | 54                                       |  |  |  |  |  |  |  |
| 11                   | 818                          | 378   | 429      | 566          | 17.1                                                 | 53                                       | 11                   | 829                          | 396   | 446      | 581          | 15.7                                                 | 51                                       |  |  |  |  |  |  |  |
| 12                   | 812                          | 383   | 425      | 551          | 18.7                                                 | 51                                       | 12                   | 823                          | 401   | 442      | 566          | 17.2                                                 | 50                                       |  |  |  |  |  |  |  |
| 13                   | 807                          | 387   | 422      | 538          | 20.4                                                 | 50                                       | 13                   | 819                          | 405   | 438      | 552          | 18.7                                                 | 48                                       |  |  |  |  |  |  |  |
| 14                   | 802                          | 391   | 418      | 526          | 22.0                                                 | 49                                       | 14                   | 814                          | 408   | 435      | 541          | 20.3                                                 | 47                                       |  |  |  |  |  |  |  |
| 15                   | 798                          | 394   | 416      | 515          | 23.8                                                 | 48                                       | 15                   | 811                          | 411   | 432      | 530          | 21.9                                                 | 46                                       |  |  |  |  |  |  |  |
| 16                   | 795                          | 396   | 413      | 508          | 25.5                                                 | 47                                       | 16                   | 807                          | 414   | 430      | 523          | 23.4                                                 | 45                                       |  |  |  |  |  |  |  |
| 17                   | 792                          | 399   | 411      | 500          | 27.1                                                 | 46                                       | 17                   | 805                          | 416   | 428      | 515          | 25.0                                                 | 44                                       |  |  |  |  |  |  |  |
| 18                   | 789                          | 401   | 410      | 495          | 28.8                                                 | 45                                       | 18                   | 802                          | 418   | 426      | 509          | 26.5                                                 | 44                                       |  |  |  |  |  |  |  |
| 19                   | 787                          | 403   | 408      | 490          | 30.5                                                 | 44                                       | 19                   | 800                          | 420   | 425      | 503          | 28.1                                                 | 43                                       |  |  |  |  |  |  |  |
| 20                   | 785                          | 405   | 406      | 483          | 32.2                                                 | 44                                       | 20                   | 798                          | 421   | 423      | 497          | 29.6                                                 | 42                                       |  |  |  |  |  |  |  |
| 21                   | 783                          | 406   | 405      | 477          | 33.9                                                 | 43                                       | 21                   | 796                          | 423   | 422      | 492          | 31.3                                                 | 42                                       |  |  |  |  |  |  |  |
| 22                   | 781                          | 407   | 404      | 473          | 35.6                                                 | 43                                       | 22                   | 794                          | 424   | 421      | 488          | 32.8                                                 | 41                                       |  |  |  |  |  |  |  |
| 23                   | 780                          | 408   | 403      | 469          | 37.3                                                 | 42                                       | 23                   | 792                          | 425   | 420      | 484          | 34.3                                                 | 41                                       |  |  |  |  |  |  |  |
| 24                   | 779                          | 410   | 402      | 466          | 39.0                                                 | 42                                       | 24                   | 792                          | 426   | 419      | 481          | 35.9                                                 | 40                                       |  |  |  |  |  |  |  |
| 25                   | 777                          | 411   | 401      | 462          | 40.7                                                 | 41                                       | 25                   | 790                          | 427   | 418      | 477          | 37.4                                                 | 40                                       |  |  |  |  |  |  |  |
| 26                   | 776                          | 412   | 400      | 459          | 42.4                                                 | 41                                       | 26                   | 789                          | 428   | 417      | 474          | 39.0                                                 | 40                                       |  |  |  |  |  |  |  |
| 27                   | 775                          | 412   | 399      | 456          | 44.1                                                 | 41                                       | 27                   | 788                          | 429   | 416      | 471          | 40.6                                                 | 39                                       |  |  |  |  |  |  |  |
| 28                   | 774                          | 413   | 398      | 453          | 45.8                                                 | 40                                       | 28                   | 787                          | 430   | 416      | 469          | 42.1                                                 | 39                                       |  |  |  |  |  |  |  |
| 29                   | 773                          | 414   | 398      | 451          | 47.5                                                 | 40                                       | 29                   | 786                          | 431   | 415      | 466          | 43.7                                                 | 39                                       |  |  |  |  |  |  |  |
| 30                   | 772                          | 415   | 397      | 448          | 49.2                                                 | 40                                       | 30                   | 785                          | 432   | 414      | 463          | 45.2                                                 | 39                                       |  |  |  |  |  |  |  |
| 31                   | 771                          | 416   | 396      | 445          | 50.9                                                 | 40                                       | 31                   | 784                          | 432   | 414      | 461          | 46.9                                                 | 38                                       |  |  |  |  |  |  |  |
| 32                   | 770                          | 416   | 396      | 444          | 52.6                                                 | 39                                       | 32                   | 783                          | 433   | 413      | 459          | 48.4                                                 | 38                                       |  |  |  |  |  |  |  |
| 33                   | 769                          | 417   | 395      | 441          | 54.2                                                 | 39                                       | 33                   | 782                          | 433   | 413      | 457          | 49.9                                                 | 38                                       |  |  |  |  |  |  |  |
| 34                   | 769                          | 417   | 395      | 440          | 55.9                                                 | 39                                       | 34                   | 782                          | 434   | 412      | 455          | 51.5                                                 | 38                                       |  |  |  |  |  |  |  |
| 35                   | 768                          | 418   | 394      | 438          | 57.7                                                 | 39                                       | 35                   | 781                          | 434   | 412      | 454          | 53.1                                                 | 37                                       |  |  |  |  |  |  |  |
| 36                   | 767                          | 418   | 394      | 437          | 59.4                                                 | 38                                       | 36                   | 781                          | 435   | 411      | 452          | 54.6                                                 | 37                                       |  |  |  |  |  |  |  |
| 37                   | 767                          | 419   | 393      | 435          | 61.0                                                 | 38                                       | 37                   | 780                          | 435   | 411      | 451          | 56.2                                                 | 37                                       |  |  |  |  |  |  |  |
| 38                   | 766                          | 419   | 393      | 434          | 61.8                                                 | 38                                       | 38                   | 779                          | 436   | 410      | 449          | 57.7                                                 | 37                                       |  |  |  |  |  |  |  |
| 39                   | 766                          | 420   | 393      | 433          | 64.4                                                 | 38                                       | 39                   | 779                          | 436   | 410      | 448          | 59.3                                                 | 37                                       |  |  |  |  |  |  |  |
| 40                   | 765                          | 420   | 392      | 431          | 66.1                                                 | 38                                       | 40                   | 778                          | 437   | 410      | 447          | 60.9                                                 | 37                                       |  |  |  |  |  |  |  |

| Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |  |  |
|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|
|                      | Formquotient<br>$q_2 = 0.64$ |       | Formzahl |              |                                                      |                                          |                      | Formquotient<br>$q_2 = 0.66$ |       | Formzahl |              |                                                      |                                          |  |  |  |  |  |  |  |
|                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |  |  |  |  |  |  |  |
| 6                    | 0.898                        | 0.368 | 0.502    | 0.751        | 7.2                                                  | 66                                       | 6                    | 0.908                        | 0.387 | 0.517    | 0.764        | 6.7                                                  | 64                                       |  |  |  |  |  |  |  |
| 7                    | 880                          | 383   | 489      | 698          | 8.7                                                  | 60                                       | 7                    | 891                          | 401   | 505      | 712          | 8.1                                                  | 58                                       |  |  |  |  |  |  |  |
| 8                    | 866                          | 394   | 479      | 660          | 10.1                                                 | 56                                       | 8                    | 877                          | 412   | 495      | 674          | 9.4                                                  | 54                                       |  |  |  |  |  |  |  |
| 9                    | 856                          | 402   | 472      | 633          | 11.6                                                 | 53                                       | 9                    | 868                          | 419   | 488      | 647          | 10.8                                                 | 52                                       |  |  |  |  |  |  |  |
| 10                   | 849                          | 409   | 466      | 615          | 13.0                                                 | 51                                       | 10                   | 860                          | 425   | 483      | 630          | 12.1                                                 | 49                                       |  |  |  |  |  |  |  |
| 11                   | 841                          | 414   | 461      | 596          | 14.5                                                 | 50                                       | 11                   | 853                          | 431   | 478      | 611          | 13.5                                                 | 47                                       |  |  |  |  |  |  |  |
| 12                   | 835                          | 419   | 457      | 581          | 15.9                                                 | 48                                       | 12                   | 848                          | 435   | 474      | 596          | 14.8                                                 | 46                                       |  |  |  |  |  |  |  |
| 13                   | 831                          | 422   | 454      | 568          | 17.3                                                 | 46                                       | 13                   | 843                          | 439   | 471      | 583          | 16.1                                                 | 44                                       |  |  |  |  |  |  |  |
| 14                   | 827                          | 426   | 451      | 557          | 18.8                                                 | 45                                       | 14                   | 840                          | 442   | 468      | 572          | 17.5                                                 | 43                                       |  |  |  |  |  |  |  |
| 15                   | 823                          | 428   | 448      | 547          | 20.3                                                 | 44                                       | 15                   | 835                          | 445   | 465      | 562          | 18.8                                                 | 42                                       |  |  |  |  |  |  |  |
| 16                   | 820                          | 431   | 446      | 539          | 21.7                                                 | 43                                       | 16                   | 832                          | 447   | 463      | 554          | 20.2                                                 | 41                                       |  |  |  |  |  |  |  |
| 17                   | 817                          | 433   | 444      | 532          | 23.1                                                 | 42                                       | 17                   | 830                          | 449   | 461      | 547          | 21.5                                                 | 41                                       |  |  |  |  |  |  |  |
| 18                   | 815                          | 435   | 443      | 526          | 24.6                                                 | 41                                       | 18                   | 827                          | 451   | 460      | 541          | 22.9                                                 | 40                                       |  |  |  |  |  |  |  |
| 19                   | 812                          | 437   | 441      | 519          | 26.0                                                 | 41                                       | 19                   | 825                          | 453   | 458      | 534          | 24.2                                                 | 39                                       |  |  |  |  |  |  |  |
| 20                   | 810                          | 438   | 440      | 514          | 27.5                                                 | 40                                       | 20                   | 823                          | 454   | 457      | 529          | 25.5                                                 | 39                                       |  |  |  |  |  |  |  |
| 21                   | 809                          | 440   | 438      | 508          | 28.9                                                 | 40                                       | 21                   | 822                          | 456   | 456      | 524          | 26.9                                                 | 38                                       |  |  |  |  |  |  |  |
| 22                   | 807                          | 441   | 437      | 504          | 30.4                                                 | 39                                       | 22                   | 820                          | 457   | 454      | 519          | 28.2                                                 | 38                                       |  |  |  |  |  |  |  |
| 23                   | 806                          | 442   | 436      | 500          | 31.8                                                 | 39                                       | 23                   | 819                          | 458   | 453      | 515          | 29.6                                                 | 37                                       |  |  |  |  |  |  |  |
| 24                   | 804                          | 443   | 435      | 497          | 33.2                                                 | 38                                       | 24                   | 817                          | 459   | 453      | 513          | 30.9                                                 | 37                                       |  |  |  |  |  |  |  |
| 25                   | 803                          | 444   | 434      | 493          | 34.7                                                 | 38                                       | 25                   | 816                          | 460   | 452      | 509          | 32.3                                                 | 37                                       |  |  |  |  |  |  |  |
| 26                   | 802                          | 445   | 433      | 490          | 36.1                                                 | 37                                       | 26                   | 815                          | 461   | 451      | 506          | 33.6                                                 | 36                                       |  |  |  |  |  |  |  |
| 27                   | 801                          | 446   | 433      | 487          | 37.6                                                 | 37                                       | 27                   | 814                          | 462   | 450      | 503          | 35.0                                                 | 36                                       |  |  |  |  |  |  |  |
| 28                   | 800                          | 447   | 432      | 485          | 39.0                                                 | 37                                       | 28                   | 813                          | 462   | 449      | 500          | 36.3                                                 | 36                                       |  |  |  |  |  |  |  |
| 29                   | 799                          | 448   | 431      | 482          | 40.5                                                 | 37                                       | 29                   | 812                          | 463   | 449      | 498          | 37.6                                                 | 35                                       |  |  |  |  |  |  |  |
| 30                   | 798                          | 448   | 431      | 480          | 41.9                                                 | 36                                       | 30                   | 811                          | 464   | 448      | 495          | 39.0                                                 | 35                                       |  |  |  |  |  |  |  |
| 31                   | 797                          | 449   | 430      | 477          | 43.4                                                 | 36                                       | 31                   | 810                          | 464   | 448      | 493          | 40.4                                                 | 35                                       |  |  |  |  |  |  |  |
| 32                   | 796                          | 449   | 430      | 475          | 44.8                                                 | 36                                       | 32                   | 810                          | 465   | 447      | 491          | 41.7                                                 | 35                                       |  |  |  |  |  |  |  |
| 33                   | 796                          | 450   | 429      | 473          | 46.3                                                 | 36                                       | 33                   | 809                          | 466   | 447      | 489          | 43.0                                                 | 34                                       |  |  |  |  |  |  |  |
| 34                   | 795                          | 451   | 429      | 472          | 47.7                                                 | 35                                       | 34                   | 808                          | 466   | 446      | 487          | 44.4                                                 | 34                                       |  |  |  |  |  |  |  |
| 35                   | 794                          | 451   | 428      | 470          | 49.1                                                 | 35                                       | 35                   | 808                          | 467   | 446      | 486          | 45.7                                                 | 34                                       |  |  |  |  |  |  |  |
| 36                   | 794                          | 451   | 428      | 469          | 50.6                                                 | 35                                       | 36                   | 807                          | 467   | 445      | 484          | 47.1                                                 | 34                                       |  |  |  |  |  |  |  |
| 37                   | 793                          | 452   | 427      | 467          | 52.0                                                 | 35                                       | 37                   | 807                          | 467   | 445      | 483          | 48.4                                                 | 34                                       |  |  |  |  |  |  |  |
| 38                   | 793                          | 452   | 427      | 466          | 53.5                                                 | 35                                       | 38                   | 806                          | 468   | 445      | 482          | 49.7                                                 | 34                                       |  |  |  |  |  |  |  |
| 39                   | 792                          | 453   | 427      | 465          | 54.9                                                 | 35                                       | 39                   | 806                          | 468   | 444      | 480          | 51.1                                                 | 33                                       |  |  |  |  |  |  |  |
| 40                   | 792                          | 453   | 426      | 463          | 56.4                                                 | 35                                       | 40                   | 805                          | 469   | 444      | 479          | 52.4                                                 | 33                                       |  |  |  |  |  |  |  |

| Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1·3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1·3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |  |  |
|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|
|                      | Formquotient<br>$q_2 = 0·68$ |       | Formzahl |              |                                                      |                                          |                      | Formquotient<br>$q_2 = 0·70$ |       | Formzahl |              |                                                      |                                          |  |  |  |  |  |  |  |
|                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |  |  |  |  |  |  |  |
| 6                    | 0·919                        | 0·408 | 0·533    | 0·779        | 6·3                                                  | 60                                       | 6                    | 0·929                        | 0·426 | 0·548    | 0·792        | 5·9                                                  | 58                                       |  |  |  |  |  |  |  |
| 7                    | 902                          | 421   | 521      | 731          | 7·6                                                  | 56                                       | 7                    | 913                          | 439   | 536      | 744          | 7·1                                                  | 54                                       |  |  |  |  |  |  |  |
| 8                    | 889                          | 432   | 511      | 693          | 8·8                                                  | 52                                       | 8                    | 900                          | 450   | 527      | 707          | 8·3                                                  | 50                                       |  |  |  |  |  |  |  |
| 9                    | 879                          | 439   | 505      | 667          | 10·1                                                 | 49                                       | 9                    | 891                          | 457   | 521      | 681          | 9·5                                                  | 47                                       |  |  |  |  |  |  |  |
| 10                   | 872                          | 445   | 499      | 645          | 11·3                                                 | 47                                       | 10                   | 884                          | 463   | 516      | 660          | 10·7                                                 | 45                                       |  |  |  |  |  |  |  |
| 11                   | 865                          | 450   | 495      | 627          | 12·6                                                 | 45                                       | 11                   | 877                          | 468   | 511      | 641          | 11·9                                                 | 43                                       |  |  |  |  |  |  |  |
| 12                   | 860                          | 454   | 491      | 612          | 13·8                                                 | 43                                       | 12                   | 872                          | 472   | 507      | 626          | 13·0                                                 | 42                                       |  |  |  |  |  |  |  |
| 13                   | 855                          | 458   | 488      | 599          | 15·1                                                 | 42                                       | 13                   | 868                          | 475   | 504      | 613          | 14·2                                                 | 40                                       |  |  |  |  |  |  |  |
| 14                   | 851                          | 461   | 485      | 588          | 16·4                                                 | 41                                       | 14                   | 864                          | 478   | 502      | 603          | 15·4                                                 | 39                                       |  |  |  |  |  |  |  |
| 15                   | 848                          | 464   | 482      | 578          | 17·6                                                 | 40                                       | 15                   | 861                          | 481   | 499      | 593          | 16·6                                                 | 38                                       |  |  |  |  |  |  |  |
| 16                   | 845                          | 466   | 480      | 570          | 18·9                                                 | 39                                       | 16                   | 858                          | 483   | 497      | 585          | 17·8                                                 | 37                                       |  |  |  |  |  |  |  |
| 17                   | 843                          | 468   | 478      | 563          | 20·1                                                 | 38                                       | 17                   | 855                          | 485   | 496      | 579          | 19·0                                                 | 37                                       |  |  |  |  |  |  |  |
| 18                   | 840                          | 470   | 477      | 556          | 21·4                                                 | 38                                       | 18                   | 853                          | 487   | 494      | 572          | 20·1                                                 | 36                                       |  |  |  |  |  |  |  |
| 19                   | 838                          | 472   | 475      | 550          | 22·6                                                 | 37                                       | 19                   | 851                          | 488   | 493      | 566          | 21·3                                                 | 36                                       |  |  |  |  |  |  |  |
| 20                   | 836                          | 473   | 474      | 545          | 23·9                                                 | 36                                       | 20                   | 849                          | 490   | 491      | 560          | 22·5                                                 | 35                                       |  |  |  |  |  |  |  |
| 21                   | 835                          | 474   | 473      | 540          | 25·2                                                 | 36                                       | 21                   | 848                          | 491   | 490      | 555          | 23·7                                                 | 34                                       |  |  |  |  |  |  |  |
| 22                   | 833                          | 476   | 472      | 536          | 26·4                                                 | 35                                       | 22                   | 846                          | 492   | 489      | 551          | 24·9                                                 | 34                                       |  |  |  |  |  |  |  |
| 23                   | 832                          | 477   | 471      | 532          | 27·7                                                 | 35                                       | 23                   | 845                          | 493   | 488      | 547          | 26·1                                                 | 34                                       |  |  |  |  |  |  |  |
| 24                   | 830                          | 478   | 470      | 529          | 28·9                                                 | 35                                       | 24                   | 844                          | 494   | 487      | 544          | 27·2                                                 | 33                                       |  |  |  |  |  |  |  |
| 25                   | 829                          | 479   | 469      | 525          | 30·2                                                 | 34                                       | 25                   | 842                          | 495   | 486      | 540          | 28·4                                                 | 33                                       |  |  |  |  |  |  |  |
| 26                   | 828                          | 479   | 468      | 522          | 31·5                                                 | 34                                       | 26                   | 841                          | 496   | 486      | 538          | 29·6                                                 | 32                                       |  |  |  |  |  |  |  |
| 27                   | 827                          | 480   | 468      | 519          | 32·7                                                 | 34                                       | 27                   | 840                          | 497   | 485      | 534          | 30·8                                                 | 32                                       |  |  |  |  |  |  |  |
| 28                   | 826                          | 481   | 467      | 517          | 34·0                                                 | 33                                       | 28                   | 839                          | 498   | 484      | 532          | 32·0                                                 | 32                                       |  |  |  |  |  |  |  |
| 29                   | 825                          | 482   | 466      | 514          | 35·3                                                 | 33                                       | 29                   | 839                          | 498   | 484      | 530          | 33·1                                                 | 32                                       |  |  |  |  |  |  |  |
| 30                   | 824                          | 482   | 466      | 512          | 36·5                                                 | 33                                       | 30                   | 838                          | 499   | 483      | 527          | 34·3                                                 | 32                                       |  |  |  |  |  |  |  |
| 31                   | 824                          | 483   | 465      | 509          | 37·7                                                 | 33                                       | 31                   | 837                          | 499   | 483      | 525          | 35·5                                                 | 31                                       |  |  |  |  |  |  |  |
| 32                   | 823                          | 483   | 465      | 508          | 39·0                                                 | 32                                       | 32                   | 836                          | 500   | 482      | 523          | 36·7                                                 | 31                                       |  |  |  |  |  |  |  |
| 33                   | 822                          | 484   | 464      | 505          | 40·3                                                 | 32                                       | 33                   | 836                          | 501   | 482      | 521          | 37·9                                                 | 31                                       |  |  |  |  |  |  |  |
| 34                   | 822                          | 484   | 464      | 504          | 41·5                                                 | 32                                       | 34                   | 835                          | 501   | 481      | 519          | 39·1                                                 | 31                                       |  |  |  |  |  |  |  |
| 35                   | 821                          | 485   | 463      | 502          | 42·8                                                 | 32                                       | 35                   | 835                          | 501   | 481      | 518          | 40·2                                                 | 31                                       |  |  |  |  |  |  |  |
| 36                   | 821                          | 485   | 463      | 501          | 44·0                                                 | 32                                       | 36                   | 834                          | 502   | 481      | 517          | 41·4                                                 | 31                                       |  |  |  |  |  |  |  |
| 37                   | 820                          | 486   | 463      | 500          | 45·3                                                 | 32                                       | 37                   | 834                          | 502   | 480      | 515          | 42·6                                                 | 30                                       |  |  |  |  |  |  |  |
| 38                   | 820                          | 486   | 462      | 498          | 46·5                                                 | 31                                       | 38                   | 833                          | 503   | 480      | 514          | 43·8                                                 | 30                                       |  |  |  |  |  |  |  |
| 39                   | 819                          | 487   | 462      | 497          | 47·8                                                 | 31                                       | 39                   | 833                          | 503   | 479      | 512          | 45·0                                                 | 30                                       |  |  |  |  |  |  |  |
| 40                   | 819                          | 487   | 462      | 496          | 49·0                                                 | 31                                       | 40                   | 832                          | 503   | 479      | 511          | 46·2                                                 | 30                                       |  |  |  |  |  |  |  |

| Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |  |  |
|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|
|                      | Formquotient<br>$q_1 = 0.72$ |       | Formzahl |              |                                                      |                                          |                      | Formquotient<br>$q_2 = 0.74$ |       | Formzahl |              |                                                      |                                          |  |  |  |  |  |  |  |
|                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |  |  |  |  |  |  |  |
| 6                    | 0.940                        | 0.444 | 0.564    | 0.806        | 5.6                                                  | 56                                       | 6                    | 0.951                        | 0.463 | 0.580    | 0.821        | 5.3                                                  | 53                                       |  |  |  |  |  |  |  |
| 7                    | 924                          | 457   | 552      | 758          | 6.7                                                  | 51                                       | 7                    | 936                          | 476   | 569      | 774          | 6.4                                                  | 48                                       |  |  |  |  |  |  |  |
| 8                    | 912                          | 467   | 544      | 722          | 7.8                                                  | 47                                       | 8                    | 923                          | 485   | 560      | 737          | 7.4                                                  | 44                                       |  |  |  |  |  |  |  |
| 9                    | 903                          | 474   | 537      | 695          | 9.0                                                  | 44                                       | 9                    | 915                          | 492   | 554      | 711          | 7.5                                                  | 42                                       |  |  |  |  |  |  |  |
| 10                   | 896                          | 480   | 532      | 674          | 10.1                                                 | 42                                       | 10                   | 908                          | 498   | 549      | 690          | 9.5                                                  | 40                                       |  |  |  |  |  |  |  |
| 11                   | 890                          | 485   | 528      | 656          | 11.2                                                 | 40                                       | 11                   | 902                          | 502   | 545      | 672          | 10.6                                                 | 38                                       |  |  |  |  |  |  |  |
| 12                   | 885                          | 489   | 524      | 641          | 12.3                                                 | 39                                       | 12                   | 897                          | 506   | 541      | 657          | 11.7                                                 | 37                                       |  |  |  |  |  |  |  |
| 13                   | 880                          | 492   | 521      | 628          | 13.4                                                 | 38                                       | 13                   | 893                          | 510   | 538      | 644          | 12.7                                                 | 36                                       |  |  |  |  |  |  |  |
| 14                   | 877                          | 495   | 519      | 618          | 14.5                                                 | 37                                       | 14                   | 889                          | 512   | 536      | 634          | 13.8                                                 | 35                                       |  |  |  |  |  |  |  |
| 15                   | 873                          | 497   | 516      | 608          | 15.7                                                 | 36                                       | 15                   | 886                          | 515   | 534      | 625          | 14.8                                                 | 34                                       |  |  |  |  |  |  |  |
| 16                   | 871                          | 500   | 514      | 600          | 16.8                                                 | 35                                       | 16                   | 884                          | 517   | 532      | 617          | 15.9                                                 | 33                                       |  |  |  |  |  |  |  |
| 17                   | 868                          | 502   | 513      | 594          | 17.9                                                 | 34                                       | 17                   | 881                          | 519   | 530      | 610          | 17.0                                                 | 32                                       |  |  |  |  |  |  |  |
| 18                   | 866                          | 503   | 511      | 587          | 19.0                                                 | 34                                       | 18                   | 879                          | 520   | 529      | 604          | 18.0                                                 | 32                                       |  |  |  |  |  |  |  |
| 19                   | 864                          | 505   | 510      | 581          | 20.1                                                 | 33                                       | 19                   | 877                          | 522   | 527      | 597          | 19.1                                                 | 31                                       |  |  |  |  |  |  |  |
| 20                   | 862                          | 506   | 509      | 576          | 21.3                                                 | 33                                       | 20                   | 875                          | 523   | 526      | 592          | 20.1                                                 | 30                                       |  |  |  |  |  |  |  |
| 21                   | 861                          | 508   | 507      | 570          | 22.4                                                 | 32                                       | 21                   | 874                          | 525   | 525      | 587          | 21.2                                                 | 30                                       |  |  |  |  |  |  |  |
| 22                   | 859                          | 509   | 506      | 566          | 23.5                                                 | 32                                       | 22                   | 873                          | 526   | 524      | 583          | 22.3                                                 | 30                                       |  |  |  |  |  |  |  |
| 23                   | 858                          | 510   | 506      | 563          | 24.6                                                 | 31                                       | 23                   | 871                          | 527   | 523      | 579          | 23.3                                                 | 29                                       |  |  |  |  |  |  |  |
| 24                   | 857                          | 511   | 505      | 560          | 25.7                                                 | 31                                       | 24                   | 870                          | 528   | 522      | 576          | 24.4                                                 | 29                                       |  |  |  |  |  |  |  |
| 25                   | 856                          | 512   | 504      | 556          | 26.9                                                 | 31                                       | 25                   | 869                          | 529   | 521      | 572          | 25.4                                                 | 29                                       |  |  |  |  |  |  |  |
| 26                   | 855                          | 512   | 503      | 553          | 28.0                                                 | 31                                       | 26                   | 868                          | 529   | 521      | 569          | 26.5                                                 | 29                                       |  |  |  |  |  |  |  |
| 27                   | 854                          | 513   | 503      | 550          | 29.1                                                 | 30                                       | 27                   | 867                          | 530   | 520      | 566          | 27.5                                                 | 28                                       |  |  |  |  |  |  |  |
| 28                   | 853                          | 514   | 502      | 548          | 30.2                                                 | 30                                       | 28                   | 866                          | 531   | 519      | 564          | 28.6                                                 | 28                                       |  |  |  |  |  |  |  |
| 29                   | 852                          | 515   | 501      | 545          | 31.3                                                 | 30                                       | 29                   | 865                          | 531   | 519      | 562          | 29.7                                                 | 28                                       |  |  |  |  |  |  |  |
| 30                   | 851                          | 515   | 501      | 543          | 32.4                                                 | 30                                       | 30                   | 865                          | 532   | 518      | 559          | 30.7                                                 | 28                                       |  |  |  |  |  |  |  |
| 31                   | 851                          | 516   | 500      | 540          | 33.6                                                 | 29                                       | 31                   | 864                          | 532   | 518      | 557          | 31.8                                                 | 27                                       |  |  |  |  |  |  |  |
| 32                   | 850                          | 516   | 500      | 538          | 34.7                                                 | 29                                       | 32                   | 863                          | 533   | 517      | 556          | 32.8                                                 | 27                                       |  |  |  |  |  |  |  |
| 33                   | 849                          | 517   | 499      | 536          | 35.8                                                 | 29                                       | 33                   | 863                          | 534   | 517      | 553          | 33.9                                                 | 27                                       |  |  |  |  |  |  |  |
| 34                   | 849                          | 517   | 499      | 535          | 36.9                                                 | 29                                       | 34                   | 862                          | 534   | 516      | 551          | 35.0                                                 | 27                                       |  |  |  |  |  |  |  |
| 35                   | 848                          | 518   | 498      | 533          | 38.0                                                 | 29                                       | 35                   | 862                          | 534   | 516      | 550          | 36.0                                                 | 26                                       |  |  |  |  |  |  |  |
| 36                   | 848                          | 518   | 498      | 532          | 39.2                                                 | 28                                       | 36                   | 861                          | 535   | 516      | 549          | 37.4                                                 | 26                                       |  |  |  |  |  |  |  |
| 37                   | 847                          | 519   | 498      | 531          | 40.3                                                 | 28                                       | 37                   | 861                          | 535   | 515      | 547          | 38.1                                                 | 26                                       |  |  |  |  |  |  |  |
| 38                   | 847                          | 519   | 497      | 529          | 41.4                                                 | 28                                       | 38                   | 860                          | 536   | 515      | 546          | 39.2                                                 | 26                                       |  |  |  |  |  |  |  |
| 39                   | 846                          | 519   | 497      | 528          | 42.5                                                 | 28                                       | 39                   | 860                          | 536   | 515      | 545          | 40.2                                                 | 26                                       |  |  |  |  |  |  |  |
| 40                   | 846                          | 520   | 497      | 527          | 43.6                                                 | 28                                       | 40                   | 860                          | 536   | 514      | 543          | 41.3                                                 | 26                                       |  |  |  |  |  |  |  |

| Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe | Baumhöhe<br><i>m</i> | Des Schaftes                 |       |          | Baumformzahl | Durchmesser bei 1,3 m<br>über dem Boden<br><i>cm</i> | Kronenlänge in Prozenten<br>der Baumhöhe |  |  |  |  |  |  |  |
|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|----------------------|------------------------------|-------|----------|--------------|------------------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|
|                      | Formquotient<br>$q_2 = 0.76$ |       | Formzahl |              |                                                      |                                          |                      | Formquotient<br>$q_2 = 0.78$ |       | Formzahl |              |                                                      |                                          |  |  |  |  |  |  |  |
|                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |                      | $q_1$                        | $q_3$ |          |              |                                                      |                                          |  |  |  |  |  |  |  |
| 6                    | 0.963                        | 0.482 | 0.596    | 0.835        | 5.0                                                  | 51                                       | 6                    | 0.974                        | 0.501 | 0.612    | 0.848        | 4.9                                                  | 48                                       |  |  |  |  |  |  |  |
| 7                    | 947                          | 494   | 585      | 788          | 6.0                                                  | 46                                       | 7                    | 959                          | 512   | 601      | 801          | 5.8                                                  | 44                                       |  |  |  |  |  |  |  |
| 8                    | 935                          | 504   | 576      | 751          | 7.0                                                  | 43                                       | 8                    | 947                          | 522   | 593      | 765          | 6.7                                                  | 40                                       |  |  |  |  |  |  |  |
| 9                    | 927                          | 510   | 571      | 726          | 8.0                                                  | 41                                       | 9                    | 939                          | 528   | 587      | 739          | 7.7                                                  | 38                                       |  |  |  |  |  |  |  |
| 10                   | 920                          | 516   | 566      | 705          | 9.0                                                  | 39                                       | 10                   | 933                          | 533   | 583      | 719          | 8.7                                                  | 36                                       |  |  |  |  |  |  |  |
| 11                   | 914                          | 520   | 562      | 687          | 10.0                                                 | 37                                       | 11                   | 927                          | 538   | 579      | 701          | 9.6                                                  | 34                                       |  |  |  |  |  |  |  |
| 12                   | 910                          | 524   | 558      | 672          | 11.1                                                 | 35                                       | 12                   | 922                          | 541   | 575      | 686          | 10.6                                                 | 33                                       |  |  |  |  |  |  |  |
| 13                   | 906                          | 527   | 555      | 659          | 12.1                                                 | 34                                       | 13                   | 918                          | 545   | 573      | 676          | 11.6                                                 | 32                                       |  |  |  |  |  |  |  |
| 14                   | 902                          | 530   | 553      | 649          | 13.1                                                 | 33                                       | 14                   | 915                          | 547   | 570      | 663          | 12.5                                                 | 31                                       |  |  |  |  |  |  |  |
| 15                   | 899                          | 533   | 551      | 640          | 14.1                                                 | 32                                       | 15                   | 912                          | 550   | 568      | 654          | 13.5                                                 | 30                                       |  |  |  |  |  |  |  |
| 16                   | 896                          | 535   | 549      | 632          | 15.1                                                 | 32                                       | 16                   | 909                          | 552   | 566      | 646          | 14.5                                                 | 29                                       |  |  |  |  |  |  |  |
| 17                   | 894                          | 537   | 547      | 625          | 16.1                                                 | 31                                       | 17                   | 907                          | 553   | 565      | 640          | 15.4                                                 | 29                                       |  |  |  |  |  |  |  |
| 18                   | 892                          | 538   | 546      | 619          | 17.1                                                 | 31                                       | 18                   | 905                          | 555   | 563      | 633          | 16.4                                                 | 28                                       |  |  |  |  |  |  |  |
| 19                   | 890                          | 540   | 545      | 613          | 18.1                                                 | 30                                       | 19                   | 903                          | 556   | 562      | 627          | 17.4                                                 | 27                                       |  |  |  |  |  |  |  |
| 20                   | 889                          | 541   | 543      | 607          | 19.1                                                 | 29                                       | 20                   | 901                          | 558   | 561      | 622          | 18.3                                                 | 27                                       |  |  |  |  |  |  |  |
| 21                   | 887                          | 542   | 542      | 602          | 20.1                                                 | 29                                       | 21                   | 900                          | 559   | 560      | 617          | 19.3                                                 | 27                                       |  |  |  |  |  |  |  |
| 22                   | 886                          | 543   | 541      | 598          | 21.1                                                 | 28                                       | 22                   | 899                          | 560   | 559      | 613          | 20.2                                                 | 26                                       |  |  |  |  |  |  |  |
| 23                   | 884                          | 544   | 540      | 594          | 22.1                                                 | 28                                       | 23                   | 898                          | 561   | 558      | 609          | 21.2                                                 | 26                                       |  |  |  |  |  |  |  |
| 24                   | 883                          | 545   | 540      | 592          | 23.1                                                 | 28                                       | 24                   | 897                          | 562   | 557      | 606          | 22.2                                                 | 26                                       |  |  |  |  |  |  |  |
| 25                   | 882                          | 546   | 539      | 588          | 24.1                                                 | 27                                       | 25                   | 896                          | 563   | 556      | 602          | 23.1                                                 | 25                                       |  |  |  |  |  |  |  |
| 26                   | 881                          | 547   | 538      | 585          | 25.2                                                 | 27                                       | 26                   | 895                          | 563   | 556      | 600          | 24.1                                                 | 25                                       |  |  |  |  |  |  |  |
| 27                   | 880                          | 547   | 538      | 582          | 26.2                                                 | 27                                       | 27                   | 894                          | 564   | 555      | 596          | 25.0                                                 | 25                                       |  |  |  |  |  |  |  |
| 28                   | 880                          | 548   | 537      | 580          | 27.2                                                 | 27                                       | 28                   | 893                          | 565   | 555      | 594          | 26.0                                                 | 24                                       |  |  |  |  |  |  |  |
| 29                   | 879                          | 549   | 536      | 577          | 28.2                                                 | 26                                       | 29                   | 892                          | 565   | 554      | 592          | 27.0                                                 | 24                                       |  |  |  |  |  |  |  |
| 30                   | 878                          | 549   | 536      | 575          | 29.2                                                 | 26                                       | 30                   | 891                          | 566   | 554      | 590          | 27.9                                                 | 24                                       |  |  |  |  |  |  |  |
| 31                   | 877                          | 550   | 535      | 572          | 30.2                                                 | 26                                       | 31                   | 891                          | 566   | 553      | 587          | 28.9                                                 | 24                                       |  |  |  |  |  |  |  |
| 32                   | 877                          | 550   | 535      | 571          | 31.2                                                 | 26                                       | 32                   | 890                          | 567   | 553      | 586          | 29.9                                                 | 24                                       |  |  |  |  |  |  |  |
| 33                   | 876                          | 551   | 534      | 568          | 32.2                                                 | 26                                       | 33                   | 890                          | 567   | 552      | 584          | 30.8                                                 | 23                                       |  |  |  |  |  |  |  |
| 34                   | 876                          | 551   | 534      | 567          | 33.2                                                 | 25                                       | 34                   | 889                          | 568   | 552      | 582          | 31.8                                                 | 23                                       |  |  |  |  |  |  |  |
| 35                   | 875                          | 552   | 534      | 566          | 34.2                                                 | 25                                       | 35                   | 889                          | 568   | 551      | 580          | 32.7                                                 | 23                                       |  |  |  |  |  |  |  |
| 36                   | 875                          | 552   | 533      | 564          | 35.2                                                 | 25                                       | 36                   | 888                          | 568   | 551      | 579          | 33.7                                                 | 23                                       |  |  |  |  |  |  |  |
| 37                   | 874                          | 552   | 533      | 563          | 36.2                                                 | 25                                       | 37                   | 888                          | 569   | 551      | 578          | 34.7                                                 | 23                                       |  |  |  |  |  |  |  |
| 38                   | 874                          | 552   | 533      | 562          | 37.2                                                 | 25                                       | 38                   | 887                          | 569   | 550      | 576          | 35.6                                                 | 23                                       |  |  |  |  |  |  |  |
| 39                   | 873                          | 553   | 534      | 562          | 38.2                                                 | 25                                       | 39                   | 887                          | 569   | 550      | 575          | 36.6                                                 | 23                                       |  |  |  |  |  |  |  |
| 40                   | 873                          | 554   | 534      | 561          | 39.2                                                 | 25                                       | 40                   | 886                          | 570   | 550      | 574          | 37.5                                                 | 23                                       |  |  |  |  |  |  |  |

## II.

# Form - und Massentafel.

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Zu gebrauchen:

- a)* mit Höhe, Formquotient  $q_2$  und Brusthöhendurchmesser,
  - b)* mit Höhe, Formklasse und Brusthöhendurchmesser.
-

## Höhe 6 m.

## Höhe 6 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |       |    |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|-------|----|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               | cm       | $m^3$ | cm |
| 0-78               | V          | 48                           | 4                                       | 0-004      | —          | 0-006  | 3-9            | 3-1           | 2-0           |          |       |    |
|                    |            |                              | 5                                       | 007        | —          | 010    | 4-9            | 3-9           | 2-5           |          |       |    |
|                    |            |                              | 6                                       | 010        | 0-002      | 014    | 5-8            | 4-7           | 3-0           |          |       |    |
|                    |            |                              | 7                                       | 014        | 005        | 020    | 6-8            | 5-5           | 3-5           |          |       |    |
|                    |            |                              | 8                                       | 018        | 011        | 026    | 7-8            | 6-2           | 4-0           |          |       |    |
|                    |            |                              | 9                                       | 023        | 017        | 032    | 8-8            | 7-0           | 4-5           |          |       |    |
|                    |            |                              | 10                                      | 029        | 024        | 040    | 9-7            | 7-8           | 5-0           |          |       |    |
| 0-76               | IV         | 51                           | 4                                       | 0-004      | —          | 0-006  | 3-9            | 3-0           | 1-9           |          |       |    |
|                    |            |                              | 5                                       | 007        | —          | 010    | 4-8            | 3-8           | 2-4           |          |       |    |
|                    |            |                              | 6                                       | 010        | 0-002      | 014    | 5-8            | 4-6           | 2-9           |          |       |    |
|                    |            |                              | 7                                       | 014        | 005        | 019    | 6-7            | 5-3           | 3-4           |          |       |    |
|                    |            |                              | 8                                       | 018        | 011        | 025    | 7-7            | 6-1           | 3-9           |          |       |    |
|                    |            |                              | 9                                       | 023        | 017        | 032    | 8-7            | 6-8           | 4-3           |          |       |    |
|                    |            |                              | 10                                      | 028        | 023        | 039    | 9-6            | 7-6           | 4-8           |          |       |    |
| 11                 | 034        | 034                          | 048                                     | 10-6       | 8-4        | 5-3    |                |               |               |          |       |    |
| 0-74               | IV         | 53                           | 4                                       | 0-004      | —          | 0-006  | 3-8            | 3-0           | 1-9           |          |       |    |
|                    |            |                              | 5                                       | 007        | —          | 010    | 4-8            | 3-7           | 2-4           |          |       |    |
|                    |            |                              | 6                                       | 010        | 0-002      | 014    | 5-7            | 4-4           | 2-9           |          |       |    |
|                    |            |                              | 7                                       | 013        | 006        | 019    | 6-7            | 5-2           | 3-3           |          |       |    |
|                    |            |                              | 8                                       | 017        | 010        | 025    | 7-6            | 5-9           | 3-8           |          |       |    |
|                    |            |                              | 9                                       | 022        | 016        | 031    | 8-6            | 6-7           | 4-3           |          |       |    |
|                    |            |                              | 10                                      | 027        | 022        | 039    | 9-5            | 7-4           | 4-8           |          |       |    |
| 11                 | 033        | 029                          | 047                                     | 10-5       | 8-1        | 5-2    |                |               |               |          |       |    |
| 12                 | 039        | 035                          | 056                                     | 11-4       | 8-9        | 5-7    |                |               |               |          |       |    |
| 0-72               | IV         | 56                           | 5                                       | 0-007      | —          | 0-010  | 4-7            | 3-6           | 1-8           |          |       |    |
|                    |            |                              | 6                                       | 010        | 0-002      | 014    | 5-6            | 4-3           | 2-2           |          |       |    |
|                    |            |                              | 7                                       | 013        | 006        | 019    | 6-6            | 5-0           | 3-1           |          |       |    |
|                    |            |                              | 8                                       | 017        | 010        | 024    | 7-5            | 5-8           | 3-6           |          |       |    |
|                    |            |                              | 9                                       | 022        | 016        | 031    | 8-5            | 6-5           | 4-0           |          |       |    |
|                    |            |                              | 10                                      | 027        | 021        | 038    | 9-4            | 7-2           | 4-4           |          |       |    |
|                    |            |                              | 11                                      | 032        | 028        | 046    | 10-3           | 7-9           | 4-9           |          |       |    |
| 12                 | 038        | 034                          | 055                                     | 11-3       | 8-6        | 5-3    |                |               |               |          |       |    |
| 13                 | 045        | 042                          | 064                                     | 12-2       | 9-4        | 5-8    |                |               |               |          |       |    |
| 0-70               | III        | 58                           | 5                                       | 0-006      | —          | 0-009  | 4-6            | 3-5           | 2-1           |          |       |    |
|                    |            |                              | 6                                       | 009        | —          | 013    | 5-6            | 4-2           | 2-5           |          |       |    |
|                    |            |                              | 7                                       | 013        | 0-005      | 018    | 6-5            | 4-9           | 3-0           |          |       |    |
|                    |            |                              | 8                                       | 017        | 009        | 023    | 7-4            | 5-6           | 3-4           |          |       |    |
|                    |            |                              | 9                                       | 021        | 015        | 030    | 8-4            | 6-3           | 3-8           |          |       |    |
|                    |            |                              | 10                                      | 026        | 021        | 037    | 9-3            | 7-0           | 4-3           |          |       |    |
|                    |            |                              | 11                                      | 031        | 027        | 044    | 10-2           | 7-7           | 4-7           |          |       |    |
| 12                 | 037        | 033                          | 053                                     | 11-1       | 8-4        | 5-1    |                |               |               |          |       |    |
| 13                 | 044        | 041                          | 062                                     | 12-1       | 9-1        | 5-5    |                |               |               |          |       |    |
| 14                 | 051        | 048                          | 072                                     | 13-0       | 9-8        | 6-0    |                |               |               |          |       |    |
| 0-68               | III        | 60                           | 6                                       | 0-009      | —          | 0-013  | 5-5            | 4-1           | 2-4           |          |       |    |
|                    |            |                              | 7                                       | 012        | 0-005      | 018    | 6-4            | 4-8           | 2-9           |          |       |    |
|                    |            |                              | 8                                       | 016        | 009        | 023    | 7-4            | 5-4           | 3-3           |          |       |    |
|                    |            |                              | 9                                       | 020        | 014        | 030    | 8-3            | 6-1           | 3-7           |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               |          |       |    |
| 0-68               | III        | 60                           | 10                                      | 0-025      | 0-020      | 0-037  | 9-2            | 6-8           | 4-1           |          |       |    |
|                    |            |                              | 11                                      | 030        | 026        | 044    | 10-1           | 7-5           | 4-5           |          |       |    |
|                    |            |                              | 12                                      | 036        | 032        | 053    | 11-0           | 8-2           | 4-9           |          |       |    |
|                    |            |                              | 13                                      | 043        | 040        | 062    | 11-9           | 8-8           | 5-3           |          |       |    |
|                    |            |                              | 14                                      | 049        | 046        | 072    | 12-9           | 9-5           | 5-7           |          |       |    |
|                    |            |                              | 15                                      | 056        | 053        | 082    | 13-8           | 10-2          | 6-1           |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               |          |       |    |
| 0-66               | III        | 64                           | 6                                       | 0-008      | —          | 0-013  | 5-4            | 3-9           | 2-3           |          |       |    |
|                    |            |                              | 7                                       | 012        | 0-004      | 018    | 6-4            | 4-6           | 2-7           |          |       |    |
|                    |            |                              | 8                                       | 015        | 008        | 023    | 7-3            | 5-3           | 3-0           |          |       |    |
|                    |            |                              | 9                                       | 019        | 013        | 029    | 8-2            | 5-9           | 3-5           |          |       |    |
|                    |            |                              | 10                                      | 024        | 019        | 036    | 9-1            | 6-6           | 3-9           |          |       |    |
|                    |            |                              | 11                                      | 029        | 025        | 044    | 10-0           | 7-3           | 4-3           |          |       |    |
|                    |            |                              | 12                                      | 034        | 030        | 052    | 10-5           | 7-9           | 4-6           |          |       |    |
|                    |            |                              | 13                                      | 040        | 037        | 061    | 11-8           | 8-6           | 5-0           |          |       |    |
|                    |            |                              | 14                                      | 046        | 043        | 071    | 12-7           | 9-2           | 5-4           |          |       |    |
|                    |            |                              | 15                                      | 053        | 050        | 081    | 13-6           | 9-9           | 5-8           |          |       |    |
| 16                 | 061        | 058                          | 092                                     | 14-5       | 10-6       | 6-2    |                |               |               |          |       |    |
| 0-64               | II         | 66                           | 7                                       | 0-012      | 0-004      | 0-018  | 6-3            | 4-5           | 2-6           |          |       |    |
|                    |            |                              | 8                                       | 015        | 008        | 023    | 7-2            | 5-1           | 3-0           |          |       |    |
|                    |            |                              | 9                                       | 019        | 013        | 029    | 8-1            | 5-8           | 3-3           |          |       |    |
|                    |            |                              | 10                                      | 024        | 019        | 036    | 9-0            | 6-4           | 3-7           |          |       |    |
|                    |            |                              | 11                                      | 029        | 025        | 043    | 9-9            | 7-0           | 4-1           |          |       |    |
|                    |            |                              | 12                                      | 034        | 030        | 052    | 10-8           | 7-7           | 4-4           |          |       |    |
|                    |            |                              | 13                                      | 040        | 037        | 061    | 11-7           | 8-3           | 4-9           |          |       |    |
|                    |            |                              | 14                                      | 046        | 043        | 071    | 12-6           | 9-0           | 5-2           |          |       |    |
|                    |            |                              | 15                                      | 053        | 050        | 081    | 13-5           | 9-6           | 5-5           |          |       |    |
|                    |            |                              | 16                                      | 060        | 057        | 092    | 14-4           | 10-2          | 5-9           |          |       |    |
| 0-62               | II         | 69                           | 7                                       | 0-011      | 0-004      | 0-017  | 6-2            | 4-3           | 2-4           |          |       |    |
|                    |            |                              | 8                                       | 015        | 008        | 022    | 7-1            | 5-0           | 2-8           |          |       |    |
|                    |            |                              | 9                                       | 019        | 013        | 028    | 8-0            | 5-6           | 3-2           |          |       |    |
|                    |            |                              | 10                                      | 023        | 018        | 035    | 8-9            | 6-2           | 3-5           |          |       |    |
|                    |            |                              | 11                                      | 028        | 024        | 042    | 9-8            | 6-8           | 3-9           |          |       |    |
|                    |            |                              | 12                                      | 033        | 030        | 050    | 10-7           | 7-4           | 4-2           |          |       |    |
|                    |            |                              | 13                                      | 039        | 036        | 059    | 11-5           | 8-1           | 4-6           |          |       |    |
|                    |            |                              | 14                                      | 045        | 042        | 068    | 12-4           | 8-7           | 4-9           |          |       |    |
|                    |            |                              | 15                                      | 052        | 049        | 078    | 13-3           | 9-3           | 5-2           |          |       |    |
|                    |            |                              | 16                                      | 059        | 056        | 089    | 14-2           | 9-9           | 5-6           |          |       |    |
| 0-60               | II         | 71                           | 7                                       | 0-011      | 0-003      | 0-017  | 6-2            | 4-2           | 2-3           |          |       |    |
|                    |            |                              | 8                                       | 014        | 007        | 022    | 7-0            | 4-8           | 2-6           |          |       |    |
|                    |            |                              | 9                                       | 018        | 012        | 028    | 7-9            | 5-4           | 3-0           |          |       |    |
|                    |            |                              | 10                                      | 022        | 017        | 034    | 8-8            | 6-0           | 3-3           |          |       |    |
|                    |            |                              | 11                                      | 027        | 023        | 041    | 9-7            | 6-6           | 3-6           |          |       |    |
|                    |            |                              | 12                                      | 032        | 028        | 049    | 10-5           | 7-2           | 4-0           |          |       |    |
|                    |            |                              | 13                                      | 038        | 035        | 058    | 11-4           | 7-8           | 4-3           |          |       |    |
|                    |            |                              | 14                                      | 044        | 041        | 067    | 12-3           | 8-4           | 4-6           |          |       |    |
|                    |            |                              | 15                                      | 050        | 047        | 077    | 13-2           | 9-0           | 4-9           |          |       |    |
|                    |            |                              | 16                                      | 057        | 054        | 088    | 14-1           | 9-6           | 5-3           |          |       |    |

## Höhe 6 m

## Höhe 7 m

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |     |     |     |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|-----|-----|-----|
|                    |                |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |     |     |     |
|                    |                |                              |                                         |            |            |        |                |               |               |     |     |     |
|                    |                |                              |                                         |            |            |        |                |               |               |     |     |     |
| cm                 | m <sup>3</sup> |                              | der Höhe                                |            |            | cm     |                |               |               |     |     |     |
|                    |                |                              |                                         |            |            |        |                |               |               |     |     |     |
| 0.58               | I              | 71                           | 7                                       | 0.011      | 0.004      | 0.016  | 6.0            | 4.1           | 2.2           |     |     |     |
|                    |                |                              | 8                                       | 014        | 007        | 022    | 7.0            | 4.6           | 2.5           |     |     |     |
|                    |                |                              | 9                                       | 017        | 011        | 027    | 7.8            | 5.2           | 2.8           |     |     |     |
|                    |                |                              | 10                                      | 022        | 017        | 034    | 8.7            | 5.8           | 3.1           |     |     |     |
|                    |                |                              | 11                                      | 026        | 022        | 041    | 9.6            | 6.4           | 3.4           |     |     |     |
|                    |                |                              | 12                                      | 031        | 027        | 049    | 10.4           | 7.0           | 3.7           |     |     |     |
|                    |                |                              | 13                                      | 037        | 034        | 057    | 11.3           | 7.5           | 4.0           |     |     |     |
|                    |                |                              | 14                                      | 042        | 039        | 066    | 12.2           | 8.1           | 4.4           |     |     |     |
|                    |                |                              | 15                                      | 049        | 046        | 076    | 13.0           | 8.7           | 4.7           |     |     |     |
|                    |                |                              | 16                                      | 055        | 052        | 087    | 13.9           | 9.3           | 5.0           |     |     |     |
| 0.56               | I              | 76                           | 17                                      | 062        | 059        | 093    | 14.8           | 9.9           | 5.3           |     |     |     |
|                    |                |                              | 18                                      | 070        | 067        | 109    | 15.6           | 10.4          | 5.6           |     |     |     |
|                    |                |                              | 8                                       | 0.013      | 0.006      | 0.021  | 6.9            | 4.5           | 2.3           |     |     |     |
|                    |                |                              | 9                                       | 017        | 011        | 027    | 7.7            | 5.0           | 2.6           |     |     |     |
|                    |                |                              | 10                                      | 021        | 016        | 033    | 8.6            | 5.6           | 2.9           |     |     |     |
|                    |                |                              | 11                                      | 025        | 021        | 040    | 9.5            | 6.2           | 3.2           |     |     |     |
|                    |                |                              | 12                                      | 030        | 026        | 047    | 10.3           | 6.7           | 3.5           |     |     |     |
|                    |                |                              | 13                                      | 035        | 032        | 056    | 11.2           | 7.3           | 3.8           |     |     |     |
|                    |                |                              | 14                                      | 041        | 038        | 064    | 12.0           | 7.8           | 4.1           |     |     |     |
|                    |                |                              | 15                                      | 047        | 044        | 074    | 12.9           | 8.4           | 4.4           |     |     |     |
| 0.54               | I              | 81                           | 16                                      | 054        | 051        | 084    | 13.8           | 9.0           | 4.7           |     |     |     |
|                    |                |                              | 17                                      | 060        | 057        | 095    | 14.6           | 9.5           | 4.9           |     |     |     |
|                    |                |                              | 18                                      | 067        | 064        | 106    | 15.5           | 10.0          | 5.2           |     |     |     |
|                    |                |                              | 19                                      | 075        | 072        | 118    | 16.3           | 10.6          | 5.5           |     |     |     |
|                    |                |                              | 9                                       | 0.016      | 0.010      | 0.026  | 7.7            | 4.9           | 2.4           |     |     |     |
|                    |                |                              | 10                                      | 020        | 015        | 032    | 8.5            | 5.4           | 2.7           |     |     |     |
|                    |                |                              | 11                                      | 024        | 020        | 039    | 9.4            | 5.9           | 2.9           |     |     |     |
|                    |                |                              | 12                                      | 029        | 025        | 047    | 10.2           | 6.5           | 3.2           |     |     |     |
|                    |                |                              | 13                                      | 034        | 031        | 055    | 11.1           | 7.0           | 3.5           |     |     |     |
|                    |                |                              | 14                                      | 040        | 037        | 063    | 11.9           | 7.6           | 3.8           |     |     |     |
| 0.52               | I              | 83                           | 15                                      | 045        | 042        | 073    | 12.8           | 8.1           | 4.0           |     |     |     |
|                    |                |                              | 16                                      | 052        | 049        | 083    | 13.6           | 8.6           | 4.3           |     |     |     |
|                    |                |                              | 17                                      | 058        | 055        | 093    | 14.5           | 9.2           | 4.6           |     |     |     |
|                    |                |                              | 18                                      | 065        | 062        | 104    | 15.3           | 9.7           | 4.8           |     |     |     |
|                    |                |                              | 19                                      | 073        | 070        | 117    | 16.1           | 10.3          | 5.1           |     |     |     |
|                    |                |                              | 10                                      | 0.019      | 0.014      | 0.032  | 8.4            | 5.2           | 2.5           |     |     |     |
|                    |                |                              | 11                                      | 024        | 020        | 038    | 9.3            | 5.7           | 2.7           |     |     |     |
|                    |                |                              | 12                                      | 028        | 024        | 046    | 10.1           | 6.2           | 3.0           |     |     |     |
|                    |                |                              | 13                                      | 033        | 030        | 054    | 10.9           | 6.8           | 3.2           |     |     |     |
|                    |                |                              | 14                                      | 038        | 035        | 062    | 11.8           | 7.3           | 3.5           |     |     |     |
| 0.68               | III            | 56                           | 15                                      | 044        | 041        | 071    | 12.6           | 7.8           | 3.7           |     |     |     |
|                    |                |                              | 16                                      | 050        | 047        | 081    | 13.5           | 8.3           | 4.0           |     |     |     |
|                    |                |                              | 17                                      | 056        | 053        | 092    | 14.3           | 8.8           | 4.2           |     |     |     |
|                    |                |                              | 18                                      | 063        | 060        | 102    | 15.2           | 9.4           | 4.5           |     |     |     |
|                    |                |                              | 19                                      | 071        | 068        | 114    | 16.0           | 9.9           | 4.7           |     |     |     |
|                    |                |                              | 20                                      | 078        | 075        | 126    | 16.8           | 10.4          | 5.0           |     |     |     |
|                    |                |                              | 21                                      | 086        | 083        | 140    | 17.7           | 10.9          | 5.2           |     |     |     |
|                    |                |                              | 0.78                                    | V          | 44         | 5      | 0.008          | —             | 0.011         | 4.8 | 3.9 | 2.6 |
|                    |                |                              |                                         |            |            | 6      | 012            | 0.002         | 016           | 5.8 | 4.7 | 3.1 |
|                    |                |                              |                                         |            |            | 7      | 016            | 007           | 022           | 6.7 | 5.5 | 3.6 |
| 8                  | 021            | 013                          |                                         |            |            | 028    | 7.7            | 6.2           | 4.1           |     |     |     |
| 9                  | 027            | 021                          |                                         |            |            | 036    | 8.6            | 7.0           | 4.6           |     |     |     |
| 10                 | 033            | 028                          |                                         |            |            | 044    | 9.6            | 7.8           | 5.1           |     |     |     |
| 11                 | 040            | 035                          |                                         |            |            | 053    | 10.5           | 8.6           | 5.6           |     |     |     |
| 5                  | 0.008          | —                            |                                         |            |            | 0.011  | 4.7            | 3.8           | 2.5           |     |     |     |
| 6                  | 012            | 0.002                        |                                         |            |            | 016    | 5.7            | 4.6           | 3.0           |     |     |     |
| 7                  | 016            | 007                          |                                         |            |            | 021    | 6.6            | 5.3           | 3.5           |     |     |     |
| 0.76               | IV             | 46                           | 8                                       | 021        | 013        | 028    | 7.6            | 6.1           | 4.0           |     |     |     |
|                    |                |                              | 9                                       | 026        | 020        | 035    | 8.5            | 6.8           | 4.4           |     |     |     |
|                    |                |                              | 10                                      | 032        | 027        | 043    | 9.5            | 7.6           | 4.9           |     |     |     |
|                    |                |                              | 11                                      | 039        | 034        | 052    | 10.4           | 8.4           | 5.4           |     |     |     |
|                    |                |                              | 12                                      | 046        | 042        | 062    | 11.4           | 9.1           | 5.9           |     |     |     |
|                    |                |                              | 5                                       | 0.008      | —          | 0.011  | 4.7            | 3.7           | 2.3           |     |     |     |
|                    |                |                              | 6                                       | 011        | 0.001      | 015    | 5.6            | 4.4           | 2.8           |     |     |     |
|                    |                |                              | 7                                       | 015        | 006        | 021    | 6.6            | 5.2           | 3.2           |     |     |     |
|                    |                |                              | 8                                       | 020        | 012        | 027    | 7.5            | 5.9           | 3.7           |     |     |     |
|                    |                |                              | 9                                       | 025        | 019        | 034    | 8.4            | 6.7           | 4.2           |     |     |     |
| 0.72               | IV             | 51                           | 10                                      | 031        | 026        | 042    | 9.4            | 7.4           | 4.6           |     |     |     |
|                    |                |                              | 11                                      | 038        | 033        | 051    | 10.3           | 8.1           | 5.1           |     |     |     |
|                    |                |                              | 12                                      | 045        | 041        | 061    | 11.2           | 8.9           | 5.6           |     |     |     |
|                    |                |                              | 13                                      | 053        | 050        | 072    | 12.2           | 9.6           | 6.0           |     |     |     |
|                    |                |                              | 6                                       | 0.011      | 0.001      | 0.015  | 5.5            | 4.3           | 2.7           |     |     |     |
|                    |                |                              | 7                                       | 015        | 006        | 020    | 6.5            | 5.0           | 3.2           |     |     |     |
|                    |                |                              | 8                                       | 019        | 012        | 027    | 7.4            | 5.8           | 3.7           |     |     |     |
|                    |                |                              | 9                                       | 025        | 019        | 034    | 8.3            | 6.5           | 4.1           |     |     |     |
|                    |                |                              | 10                                      | 030        | 025        | 042    | 9.2            | 7.2           | 4.6           |     |     |     |
|                    |                |                              | 11                                      | 037        | 032        | 050    | 10.2           | 7.9           | 5.0           |     |     |     |
| 0.70               | III            | 54                           | 12                                      | 044        | 040        | 060    | 11.1           | 8.6           | 5.5           |     |     |     |
|                    |                |                              | 13                                      | 051        | 048        | 070    | 12.0           | 9.4           | 5.9           |     |     |     |
|                    |                |                              | 14                                      | 060        | 057        | 082    | 12.9           | 10.0          | 6.4           |     |     |     |
|                    |                |                              | 6                                       | 0.011      | 0.001      | 0.015  | 5.5            | 4.2           | 2.6           |     |     |     |
|                    |                |                              | 7                                       | 014        | 005        | 020    | 6.4            | 4.9           | 3.1           |     |     |     |
|                    |                |                              | 8                                       | 019        | 012        | 026    | 7.3            | 5.6           | 3.5           |     |     |     |
|                    |                |                              | 9                                       | 024        | 018        | 033    | 8.2            | 6.3           | 4.0           |     |     |     |
|                    |                |                              | 10                                      | 029        | 024        | 041    | 9.1            | 7.0           | 4.4           |     |     |     |
|                    |                |                              | 11                                      | 036        | 031        | 050    | 10.0           | 7.7           | 4.8           |     |     |     |
|                    |                |                              | 12                                      | 042        | 038        | 059    | 11.0           | 8.4           | 6.3           |     |     |     |
| 0.68               | III            | 56                           | 13                                      | 050        | 047        | 069    | 11.9           | 9.1           | 5.7           |     |     |     |
|                    |                |                              | 14                                      | 058        | 055        | 080    | 12.8           | 9.8           | 6.1           |     |     |     |
|                    |                |                              | 15                                      | 066        | 063        | 092    | 13.7           | 10.5          | 6.6           |     |     |     |
|                    |                |                              | 7                                       | 0.014      | 0.005      | 0.020  | 6.3            | 4.8           | 2.9           |     |     |     |
|                    |                |                              | 8                                       | 018        | 009        | 026    | 7.2            | 5.4           | 3.4           |     |     |     |
|                    |                |                              | 9                                       | 023        | 017        | 033    | 8.1            | 6.1           | 3.8           |     |     |     |
|                    |                |                              | 10                                      | 029        | 024        | 040    | 9.0            | 6.8           | 4.2           |     |     |     |

## Höhe 7 m.

## Höhe 7 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |       |       | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |       |       |  |  |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|-------|-------|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|-------|-------|--|--|--|--|
|                    |            |                              |                                         | Schaftes       | Derbholzes | Baumes | $1/4$          | $1/2$ | $3/4$ |                    |            |                              |                                         | Schaftes       | Derbholzes | Baumes | $1/4$          | $1/2$ | $3/4$ |  |  |  |  |
|                    |            |                              |                                         |                |            |        |                |       |       |                    |            |                              |                                         |                |            |        |                |       |       |  |  |  |  |
|                    |            |                              |                                         |                |            |        |                |       |       |                    |            |                              |                                         |                |            |        |                |       |       |  |  |  |  |
|                    |            |                              | cm                                      | m <sup>3</sup> |            |        | cm             |       |       |                    |            |                              | cm                                      | m <sup>3</sup> |            |        | cm             |       |       |  |  |  |  |
|                    |            |                              |                                         |                |            |        | der Höhe       |       |       |                    |            |                              |                                         |                |            |        | der Höhe       |       |       |  |  |  |  |
| 0.68               | III        | 56                           | 11                                      | 0.035          | 0.030      | 0.049  | 9.9            | 7.5   | 4.6   | 0.58               | I          | 67                           | 8                                       | 0.016          | 0.009      | 0.023  | 6.8            | 4.6   | 2.6   |  |  |  |  |
|                    |            |                              | 12                                      | 0.41           | 0.37       | 0.58   | 10.8           | 8.2   | 5.1   |                    |            |                              | 9                                       | 0.19           | 0.13       | 0.29   | 7.6            | 5.2   | 2.9   |  |  |  |  |
|                    |            |                              | 13                                      | 0.49           | 0.45       | 0.68   | 11.7           | 8.8   | 5.5   |                    |            |                              | 10                                      | 0.24           | 0.19       | 0.36   | 8.5            | 5.8   | 3.3   |  |  |  |  |
|                    |            |                              | 14                                      | 0.56           | 0.53       | 0.79   | 12.6           | 9.5   | 5.9   |                    |            |                              | 11                                      | 0.29           | 0.24       | 0.44   | 9.3            | 6.4   | 3.5   |  |  |  |  |
|                    |            |                              | 15                                      | 0.65           | 0.62       | 0.91   | 13.5           | 10.2  | 6.3   |                    |            |                              | 12                                      | 0.35           | 0.31       | 0.52   | 10.2           | 7.0   | 3.9   |  |  |  |  |
|                    |            |                              | 16                                      | 0.73           | 0.70       | 1.02   | 14.4           | 10.9  | 6.7   |                    |            |                              | 13                                      | 0.41           | 0.37       | 0.62   | 11.0           | 7.5   | 4.3   |  |  |  |  |
|                    |            |                              | 7                                       | 0.014          | 0.005      | 0.019  | 6.2            | 4.6   | 2.8   |                    |            |                              | 14                                      | 0.48           | 0.45       | 0.71   | 11.9           | 8.1   | 4.6   |  |  |  |  |
|                    |            |                              | 8                                       | 0.18           | 0.11       | 0.25   | 7.1            | 5.3   | 3.2   |                    |            |                              | 15                                      | 0.55           | 0.52       | 0.82   | 12.7           | 8.7   | 4.9   |  |  |  |  |
|                    |            |                              | 9                                       | 0.22           | 0.16       | 0.32   | 8.0            | 5.9   | 3.6   |                    |            |                              | 16                                      | 0.62           | 0.59       | 0.93   | 13.6           | 9.3   | 5.2   |  |  |  |  |
|                    |            |                              | 10                                      | 0.27           | 0.22       | 0.39   | 8.9            | 6.6   | 4.0   |                    |            |                              | 17                                      | 0.70           | 0.67       | 1.05   | 14.4           | 9.9   | 5.6   |  |  |  |  |
|                    |            |                              | 11                                      | 0.34           | 0.29       | 0.47   | 9.8            | 7.3   | 4.4   |                    |            |                              | 18                                      | 0.79           | 0.76       | 1.18   | 15.3           | 10.4  | 5.9   |  |  |  |  |
|                    |            |                              | 12                                      | 0.40           | 0.36       | 0.56   | 10.7           | 7.9   | 4.8   |                    |            |                              | 19                                      | 0.88           | 0.85       | 1.31   | 16.1           | 11.0  | 6.2   |  |  |  |  |
|                    |            |                              | 13                                      | 0.47           | 0.43       | 0.66   | 11.6           | 8.6   | 5.2   |                    |            |                              | 8                                       | 0.015          | 0.008      | 0.023  | 6.7            | 4.5   | 2.5   |  |  |  |  |
|                    |            |                              | 14                                      | 0.55           | 0.52       | 0.77   | 12.5           | 9.2   | 5.6   |                    |            |                              | 9                                       | 0.19           | 0.13       | 0.29   | 7.6            | 5.0   | 2.8   |  |  |  |  |
|                    |            |                              | 15                                      | 0.63           | 0.60       | 0.88   | 13.4           | 9.9   | 6.0   |                    |            |                              | 10                                      | 0.24           | 0.19       | 0.36   | 8.4            | 5.6   | 3.1   |  |  |  |  |
|                    |            |                              | 16                                      | 0.71           | 0.68       | 1.00   | 14.3           | 10.6  | 6.4   |                    |            |                              | 11                                      | 0.29           | 0.24       | 0.43   | 9.2            | 6.2   | 3.4   |  |  |  |  |
|                    |            |                              | 17                                      | 0.80           | 0.77       | 1.13   | 15.1           | 11.2  | 6.8   |                    |            |                              | 12                                      | 0.34           | 0.30       | 0.51   | 10.0           | 6.7   | 3.7   |  |  |  |  |
|                    |            |                              | 8                                       | 0.017          | 0.009      | 0.024  | 7.0            | 4.8   | 3.1   | 0.56               | I          | 71                           | 13                                      | 0.40           | 0.36       | 0.60   | 10.9           | 7.3   | 4.0   |  |  |  |  |
|                    |            |                              | 9                                       | 0.22           | 0.16       | 0.31   | 7.9            | 5.4   | 3.4   |                    |            |                              | 14                                      | 0.46           | 0.43       | 0.70   | 11.7           | 7.8   | 4.3   |  |  |  |  |
|                    |            |                              | 10                                      | 0.27           | 0.22       | 0.38   | 8.8            | 6.0   | 3.8   |                    |            |                              | 15                                      | 0.53           | 0.50       | 0.80   | 12.6           | 8.4   | 4.6   |  |  |  |  |
|                    |            |                              | 11                                      | 0.33           | 0.28       | 0.46   | 9.7            | 6.6   | 4.2   |                    |            |                              | 16                                      | 0.60           | 0.57       | 0.91   | 13.4           | 9.0   | 4.9   |  |  |  |  |
|                    |            |                              | 12                                      | 0.39           | 0.35       | 0.55   | 10.6           | 7.2   | 4.6   |                    |            |                              | 17                                      | 0.68           | 0.65       | 1.03   | 14.3           | 9.5   | 5.3   |  |  |  |  |
|                    |            |                              | 13                                      | 0.45           | 0.41       | 0.65   | 11.6           | 7.8   | 5.0   |                    |            |                              | 18                                      | 0.76           | 0.73       | 1.15   | 15.1           | 10.1  | 5.5   |  |  |  |  |
|                    |            |                              | 14                                      | 0.53           | 0.50       | 0.75   | 12.3           | 8.4   | 5.4   |                    |            |                              | 19                                      | 0.85           | 0.82       | 1.29   | 15.9           | 10.6  | 5.8   |  |  |  |  |
|                    |            |                              | 15                                      | 0.61           | 0.58       | 0.86   | 13.2           | 9.0   | 5.7   |                    |            |                              | 8                                       | 0.015          | 0.008      | 0.022  | 6.6            | 4.3   | 2.3   |  |  |  |  |
|                    |            |                              | 16                                      | 0.69           | 0.66       | 0.98   | 14.1           | 9.6   | 6.1   |                    |            |                              | 9                                       | 0.18           | 0.12       | 0.28   | 7.5            | 4.9   | 2.6   |  |  |  |  |
|                    |            |                              | 17                                      | 0.78           | 0.75       | 1.11   | 15.0           | 10.2  | 6.5   |                    |            |                              | 10                                      | 0.23           | 0.18       | 0.35   | 8.3            | 5.4   | 2.9   |  |  |  |  |
|                    |            |                              | 8                                       | 0.017          | 0.010      | 0.024  | 7.0            | 5.0   | 2.9   | 0.54               | I          | 74                           | 11                                      | 0.28           | 0.24       | 0.42   | 9.1            | 5.9   | 3.1   |  |  |  |  |
|                    |            |                              | 9                                       | 0.21           | 0.16       | 0.31   | 7.8            | 5.6   | 3.3   |                    |            |                              | 12                                      | 0.33           | 0.29       | 0.50   | 10.0           | 6.5   | 3.4   |  |  |  |  |
|                    |            |                              | 10                                      | 0.26           | 0.21       | 0.38   | 8.7            | 6.2   | 3.6   |                    |            |                              | 13                                      | 0.39           | 0.35       | 0.59   | 10.8           | 7.0   | 3.7   |  |  |  |  |
|                    |            |                              | 11                                      | 0.32           | 0.27       | 0.46   | 9.6            | 6.8   | 4.0   |                    |            |                              | 14                                      | 0.45           | 0.41       | 0.69   | 11.6           | 7.6   | 4.0   |  |  |  |  |
|                    |            |                              | 12                                      | 0.37           | 0.34       | 0.54   | 10.4           | 7.4   | 4.4   |                    |            |                              | 15                                      | 0.51           | 0.48       | 0.79   | 12.4           | 8.1   | 4.3   |  |  |  |  |
|                    |            |                              | 13                                      | 0.44           | 0.40       | 0.64   | 11.3           | 8.1   | 4.7   |                    |            |                              | 16                                      | 0.58           | 0.55       | 0.90   | 13.3           | 8.6   | 4.6   |  |  |  |  |
|                    |            |                              | 14                                      | 0.51           | 0.48       | 0.74   | 12.2           | 8.7   | 5.1   |                    |            |                              | 17                                      | 0.66           | 0.63       | 1.00   | 14.1           | 9.2   | 4.9   |  |  |  |  |
|                    |            |                              | 15                                      | 0.59           | 0.56       | 0.85   | 13.0           | 9.3   | 5.5   |                    |            |                              | 18                                      | 0.74           | 0.71       | 1.13   | 14.9           | 9.7   | 5.1   |  |  |  |  |
|                    |            |                              | 16                                      | 0.67           | 0.64       | 0.97   | 13.9           | 9.9   | 5.8   |                    |            |                              | 19                                      | 0.82           | 0.79       | 1.26   | 15.8           | 10.3  | 5.4   |  |  |  |  |
|                    |            |                              | 17                                      | 0.75           | 0.72       | 1.09   | 14.8           | 10.5  | 6.1   |                    |            |                              | 10                                      | 0.022          | 0.017      | 0.034  | 8.2            | 5.2   | 2.7   |  |  |  |  |
|                    |            |                              | 8                                       | 0.016          | 0.008      | 0.024  | 6.9            | 4.8   | 2.8   | 0.52               | I          | 77                           | 11                                      | 0.27           | 0.22       | 0.41   | 9.0            | 5.7   | 2.9   |  |  |  |  |
|                    |            |                              | 9                                       | 0.20           | 0.14       | 0.30   | 7.7            | 5.4   | 3.1   |                    |            |                              | 12                                      | 0.32           | 0.28       | 0.49   | 9.9            | 6.2   | 3.2   |  |  |  |  |
|                    |            |                              | 10                                      | 0.25           | 0.20       | 0.37   | 8.6            | 6.0   | 3.5   |                    |            |                              | 13                                      | 0.37           | 0.33       | 0.58   | 10.7           | 6.8   | 3.5   |  |  |  |  |
|                    |            |                              | 11                                      | 0.31           | 0.26       | 0.45   | 9.4            | 6.6   | 3.8   |                    |            |                              | 14                                      | 0.43           | 0.40       | 0.67   | 11.5           | 7.3   | 3.7   |  |  |  |  |
|                    |            |                              | 12                                      | 0.36           | 0.32       | 0.53   | 10.3           | 7.2   | 4.2   |                    |            |                              | 15                                      | 0.50           | 0.47       | 0.77   | 12.3           | 7.8   | 4.0   |  |  |  |  |
|                    |            |                              | 13                                      | 0.43           | 0.39       | 0.63   | 11.2           | 7.8   | 4.5   |                    |            |                              | 16                                      | 0.56           | 0.53       | 0.88   | 13.1           | 8.3   | 4.3   |  |  |  |  |
|                    |            |                              | 14                                      | 0.49           | 0.46       | 0.73   | 12.0           | 8.4   | 4.8   |                    |            |                              | 17                                      | 0.64           | 0.61       | 0.99   | 14.0           | 8.8   | 4.5   |  |  |  |  |
|                    |            |                              | 15                                      | 0.57           | 0.54       | 0.84   | 12.9           | 9.0   | 5.2   |                    |            |                              | 18                                      | 0.71           | 0.68       | 1.11   | 14.8           | 9.4   | 4.8   |  |  |  |  |
|                    |            |                              | 16                                      | 0.65           | 0.62       | 0.95   | 13.7           | 9.6   | 5.5   |                    |            |                              | 19                                      | 0.80           | 0.77       | 1.24   | 15.6           | 9.9   | 5.1   |  |  |  |  |
|                    |            |                              | 17                                      | 0.73           | 0.70       | 1.07   | 14.6           | 10.2  | 5.9   |                    |            |                              | 20                                      | 0.88           | 0.85       | 1.37   | 16.4           | 10.4  | 5.3   |  |  |  |  |

Höhe 8 m.

Höhe 8 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |      |     |
|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|------|-----|
|                    |            |                              |                                         | Schafte        | Derbholzes | Baumes | 1/4            | 1/2  | 3/4 |
|                    |            |                              |                                         |                |            |        |                |      |     |
|                    |            |                              |                                         |                |            |        | der Höhe       |      |     |
| cm                 |            |                              |                                         | m <sup>3</sup> |            |        | cm             |      |     |
| 0.78               | V          | 40                           | 5                                       | 0.009          | —          | 0.012  | 4.7            | 3.9  | 2.6 |
|                    |            |                              | 6                                       | 0.013          | 0.001      | 0.017  | 5.7            | 4.7  | 3.1 |
|                    |            |                              | 7                                       | 0.018          | 0.008      | 0.024  | 6.6            | 5.5  | 3.7 |
|                    |            |                              | 8                                       | 0.024          | 0.016      | 0.031  | 7.6            | 6.2  | 4.2 |
|                    |            |                              | 9                                       | 0.030          | 0.023      | 0.039  | 8.5            | 7.0  | 4.7 |
|                    |            |                              | 10                                      | 0.037          | 0.031      | 0.048  | 9.5            | 7.8  | 5.2 |
| 0.76               | V          | 43                           | 11                                      | 0.045          | 0.040      | 0.058  | 10.4           | 8.6  | 5.7 |
|                    |            |                              | 6                                       | 0.013          | 0.001      | 0.017  | 5.6            | 4.6  | 3.0 |
|                    |            |                              | 7                                       | 0.018          | 0.008      | 0.023  | 6.5            | 5.3  | 3.5 |
|                    |            |                              | 8                                       | 0.023          | 0.015      | 0.030  | 7.5            | 6.1  | 4.1 |
|                    |            |                              | 9                                       | 0.029          | 0.022      | 0.038  | 8.4            | 6.8  | 4.5 |
|                    |            |                              | 10                                      | 0.036          | 0.030      | 0.047  | 9.4            | 7.6  | 5.0 |
| 0.74               | IV         | 44                           | 11                                      | 0.044          | 0.039      | 0.057  | 10.3           | 8.4  | 5.5 |
|                    |            |                              | 12                                      | 0.052          | 0.048      | 0.068  | 11.2           | 9.1  | 6.0 |
|                    |            |                              | 6                                       | 0.013          | 0.001      | 0.017  | 5.5            | 4.4  | 2.9 |
|                    |            |                              | 7                                       | 0.017          | 0.007      | 0.023  | 6.5            | 5.2  | 3.4 |
|                    |            |                              | 8                                       | 0.023          | 0.015      | 0.030  | 7.4            | 5.9  | 3.9 |
|                    |            |                              | 9                                       | 0.029          | 0.022      | 0.038  | 8.3            | 6.7  | 4.4 |
| 0.72               | IV         | 47                           | 10                                      | 0.035          | 0.029      | 0.046  | 9.2            | 7.4  | 4.9 |
|                    |            |                              | 11                                      | 0.043          | 0.038      | 0.056  | 10.2           | 8.1  | 5.3 |
|                    |            |                              | 12                                      | 0.051          | 0.047      | 0.067  | 11.1           | 8.9  | 5.8 |
|                    |            |                              | 13                                      | 0.059          | 0.055      | 0.078  | 12.0           | 9.6  | 6.3 |
|                    |            |                              | 14                                      | 0.068          | 0.064      | 0.091  | 12.9           | 10.4 | 6.8 |
|                    |            |                              | 6                                       | 0.012          | —          | 0.016  | 5.5            | 4.3  | 2.8 |
| 0.70               | IV         | 50                           | 7                                       | 0.017          | 0.007      | 0.022  | 6.4            | 5.0  | 3.3 |
|                    |            |                              | 8                                       | 0.022          | 0.016      | 0.029  | 7.3            | 5.8  | 3.7 |
|                    |            |                              | 9                                       | 0.028          | 0.021      | 0.037  | 8.2            | 6.5  | 4.2 |
|                    |            |                              | 10                                      | 0.034          | 0.028      | 0.045  | 9.1            | 7.2  | 4.7 |
|                    |            |                              | 11                                      | 0.041          | 0.036      | 0.055  | 10.0           | 7.9  | 5.1 |
|                    |            |                              | 12                                      | 0.049          | 0.045      | 0.065  | 10.9           | 8.6  | 5.6 |
| 0.68               | III        | 52                           | 13                                      | 0.058          | 0.054      | 0.076  | 11.9           | 9.4  | 6.1 |
|                    |            |                              | 14                                      | 0.067          | 0.063      | 0.089  | 12.8           | 10.1 | 6.5 |
|                    |            |                              | 6                                       | 0.012          | —          | 0.016  | 5.4            | 4.2  | 2.7 |
|                    |            |                              | 7                                       | 0.016          | 0.006      | 0.022  | 6.3            | 4.9  | 3.1 |
|                    |            |                              | 8                                       | 0.021          | 0.013      | 0.028  | 7.2            | 5.6  | 3.6 |
|                    |            |                              | 9                                       | 0.027          | 0.020      | 0.036  | 8.1            | 6.3  | 4.0 |
| 0.66               | III        | 54                           | 10                                      | 0.033          | 0.027      | 0.044  | 9.0            | 7.0  | 4.5 |
|                    |            |                              | 11                                      | 0.040          | 0.035      | 0.054  | 9.9            | 7.7  | 5.0 |
|                    |            |                              | 12                                      | 0.048          | 0.044      | 0.064  | 10.8           | 8.4  | 5.4 |
|                    |            |                              | 13                                      | 0.056          | 0.052      | 0.075  | 11.7           | 9.1  | 5.8 |
|                    |            |                              | 14                                      | 0.065          | 0.061      | 0.087  | 12.5           | 9.7  | 6.3 |
|                    |            |                              | 15                                      | 0.075          | 0.071      | 0.100  | 13.5           | 10.5 | 6.8 |
| 0.64               | III        | 56                           | 7                                       | 0.016          | 0.006      | 0.021  | 6.2            | 4.8  | 3.0 |
|                    |            |                              | 8                                       | 0.021          | 0.013      | 0.028  | 7.1            | 5.4  | 3.5 |
|                    |            |                              | 9                                       | 0.026          | 0.019      | 0.035  | 8.0            | 6.1  | 3.9 |
|                    |            |                              | 10                                      | 0.032          | 0.026      | 0.044  | 8.9            | 6.8  | 4.3 |
|                    |            |                              | 11                                      | 0.039          | 0.034      | 0.053  | 9.8            | 7.5  | 4.8 |
|                    |            |                              | 6                                       | 0.013          | 0.001      | 0.017  | 5.5            | 4.4  | 2.9 |
| 0.62               | II         | 59                           | 7                                       | 0.017          | 0.007      | 0.023  | 6.5            | 5.2  | 3.4 |
|                    |            |                              | 8                                       | 0.023          | 0.015      | 0.030  | 7.4            | 5.9  | 3.9 |
|                    |            |                              | 9                                       | 0.029          | 0.022      | 0.038  | 8.3            | 6.7  | 4.4 |
|                    |            |                              | 10                                      | 0.035          | 0.029      | 0.046  | 9.2            | 7.4  | 4.9 |
|                    |            |                              | 11                                      | 0.043          | 0.038      | 0.056  | 10.2           | 8.1  | 5.3 |
|                    |            |                              | 12                                      | 0.051          | 0.047      | 0.067  | 11.1           | 8.9  | 5.8 |
| 0.60               | II         | 61                           | 13                                      | 0.059          | 0.055      | 0.078  | 12.0           | 9.6  | 6.3 |
|                    |            |                              | 14                                      | 0.068          | 0.064      | 0.091  | 12.9           | 10.4 | 6.8 |
|                    |            |                              | 15                                      | 0.077          | 0.074      | 0.106  | 13.9           | 10.2 | 6.3 |
|                    |            |                              | 16                                      | 0.087          | 0.084      | 0.120  | 14.7           | 10.9 | 6.7 |
|                    |            |                              | 9                                       | 0.024          | 0.017      | 0.034  | 7.8            | 5.8  | 3.5 |
|                    |            |                              | 10                                      | 0.029          | 0.023      | 0.041  | 8.7            | 6.4  | 3.9 |
| 0.60               | II         | 61                           | 11                                      | 0.035          | 0.035      | 0.049  | 9.4            | 6.8  | 4.1 |
|                    |            |                              | 12                                      | 0.042          | 0.038      | 0.059  | 10.3           | 7.4  | 4.5 |
|                    |            |                              | 13                                      | 0.049          | 0.045      | 0.069  | 11.1           | 8.1  | 4.9 |
|                    |            |                              | 14                                      | 0.057          | 0.053      | 0.080  | 11.9           | 8.7  | 5.3 |
|                    |            |                              | 15                                      | 0.066          | 0.063      | 0.092  | 12.8           | 9.3  | 5.6 |
|                    |            |                              | 16                                      | 0.075          | 0.072      | 0.104  | 13.7           | 9.9  | 6.0 |
| 0.60               | II         | 61                           | 17                                      | 0.084          | 0.081      | 0.118  | 14.5           | 10.5 | 6.4 |
|                    |            |                              | 18                                      | 0.094          | 0.091      | 0.132  | 15.4           | 11.2 | 6.8 |
|                    |            |                              | 9                                       | 0.023          | 0.016      | 0.032  | 7.6            | 5.4  | 3.2 |
|                    |            |                              | 10                                      | 0.028          | 0.022      | 0.040  | 8.4            | 6.0  | 3.6 |
|                    |            |                              | 11                                      | 0.034          | 0.029      | 0.048  | 9.3            | 6.6  | 3.9 |
|                    |            |                              | 12                                      | 0.040          | 0.036      | 0.057  | 10.1           | 7.2  | 4.3 |
| 0.60               | II         | 61                           | 13                                      | 0.047          | 0.043      | 0.067  | 11.0           | 7.8  | 4.7 |
|                    |            |                              | 14                                      | 0.055          | 0.051      | 0.078  | 11.8           | 8.4  | 5.0 |
|                    |            |                              | 15                                      | 0.064          | 0.061      | 0.090  | 12.7           | 9.0  | 5.4 |
|                    |            |                              | 16                                      | 0.072          | 0.069      | 0.102  | 13.5           | 9.6  | 5.7 |
|                    |            |                              | 17                                      | 0.081          | 0.078      | 0.116  | 14.3           | 10.2 | 6.1 |
|                    |            |                              | 18                                      | 0.091          | 0.088      | 0.129  | 15.2           | 11.8 | 6.4 |
| 0.60               | II         | 61                           | 18                                      | 0.102          | 0.099      | 0.144  | 16.0           | 12.4 | 6.8 |
|                    |            |                              | 12                                      | 0.046          | 0.042      | 0.063  | 10.7           | 8.2  | 5.2 |
|                    |            |                              | 13                                      | 0.054          | 0.050      | 0.073  | 11.6           | 8.8  | 5.6 |
|                    |            |                              | 14                                      | 0.063          | 0.059      | 0.085  | 12.4           | 9.5  | 6.0 |
|                    |            |                              | 15                                      | 0.072          | 0.068      | 0.098  | 13.3           | 10.2 | 6.5 |
|                    |            |                              | 16                                      | 0.082          | 0.079      | 0.111  | 14.2           | 10.9 | 6.9 |

## Höhe 8 m.

## Höhe 9 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |     | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |     |          |                |    |          |                |    |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|-----|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|-----|----------|----------------|----|----------|----------------|----|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4 |                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4 |          |                |    |          |                |    |
|                    |            |                              |                                         |            |            |        |                |      |     |                    |            |                              |                                         |            |            |        |                |      |     | der Höhe |                |    | der Höhe |                |    |
|                    |            |                              |                                         |            |            |        |                |      |     |                    |            |                              |                                         |            |            |        |                |      |     | cm       | m <sup>3</sup> | cm | cm       | m <sup>3</sup> | cm |
| 0.58               | II         | 61                           | 10                                      | 0.027      | 0.021      | 0.039  | 8.3            | 5.8  | 3.4 | 0.78               | V          | 38                           | 6                                       | 0.015      | 0.001      | 0.019  | 5.6            | 4.7  | 3.2 |          |                |    |          |                |    |
|                    |            |                              | 11                                      | 033        | 028        | 047    | 9.2            | 6.4  | 3.7 |                    |            |                              | 7                                       | 020        | 008        | 026    | 6.6            | 5.5  | 3.7 |          |                |    |          |                |    |
|                    |            |                              | 12                                      | 039        | 035        | 056    | 10.0           | 7.0  | 4.1 |                    |            |                              | 8                                       | 027        | 018        | 033    | 7.5            | 6.2  | 4.2 |          |                |    |          |                |    |
|                    |            |                              | 13                                      | 046        | 042        | 066    | 10.8           | 7.5  | 4.4 |                    |            |                              | 9                                       | 034        | 027        | 042    | 8.5            | 7.0  | 4.8 |          |                |    |          |                |    |
|                    |            |                              | 14                                      | 053        | 049        | 077    | 11.7           | 8.1  | 4.7 |                    |            |                              | 10                                      | 041        | 035        | 052    | 9.4            | 7.8  | 5.3 |          |                |    |          |                |    |
|                    |            |                              | 15                                      | 061        | 057        | 088    | 12.5           | 8.7  | 5.1 |                    |            |                              | 11                                      | 050        | 045        | 063    | 10.3           | 8.6  | 5.8 |          |                |    |          |                |    |
|                    |            |                              | 16                                      | 070        | 067        | 100    | 13.3           | 9.3  | 5.4 |                    |            |                              | 12                                      | 060        | 055        | 075    | 11.3           | 9.4  | 6.3 |          |                |    |          |                |    |
|                    |            |                              | 17                                      | 079        | 076        | 113    | 14.2           | 9.9  | 5.8 |                    |            |                              | 7                                       | 0.020      | 0.008      | 0.025  | 6.5            | 5.3  | 3.6 |          |                |    |          |                |    |
|                    |            |                              | 18                                      | 088        | 085        | 126    | 15.0           | 10.4 | 6.1 |                    |            |                              | 8                                       | 026        | 017        | 033    | 7.4            | 6.1  | 4.1 |          |                |    |          |                |    |
|                    |            |                              | 19                                      | 098        | 095        | 141    | 15.8           | 11.0 | 6.4 |                    |            |                              | 9                                       | 033        | 027        | 042    | 8.3            | 6.8  | 4.6 |          |                |    |          |                |    |
|                    |            |                              | 20                                      | 108        | 105        | 156    | 16.7           | 11.6 | 6.8 |                    |            |                              | 10                                      | 040        | 034        | 051    | 9.3            | 7.6  | 5.1 |          |                |    |          |                |    |
|                    |            |                              | 21                                      | 120        | 117        | 172    | 17.5           | 12.2 | 7.1 |                    |            |                              | 11                                      | 049        | 044        | 062    | 10.2           | 8.4  | 5.6 |          |                |    |          |                |    |
| 0.56               | I          | 66                           | 10                                      | 0.026      | 0.020      | 0.038  | 8.2            | 5.6  | 3.2 | 0.76               | V          | 41                           | 12                                      | 0.058      | 0.053      | 0.074  | 11.1           | 9.1  | 6.1 |          |                |    |          |                |    |
|                    |            |                              | 11                                      | 032        | 027        | 046    | 9.1            | 6.2  | 3.5 |                    |            |                              | 13                                      | 069        | 065        | 087    | 12.0           | 9.9  | 6.6 |          |                |    |          |                |    |
|                    |            |                              | 12                                      | 038        | 034        | 055    | 9.9            | 6.7  | 3.8 |                    |            |                              | 7                                       | 0.019      | 0.007      | 0.025  | 6.4            | 5.2  | 3.4 |          |                |    |          |                |    |
|                    |            |                              | 13                                      | 044        | 040        | 064    | 10.7           | 7.3  | 4.2 |                    |            |                              | 8                                       | 025        | 018        | 032    | 7.3            | 5.9  | 3.9 |          |                |    |          |                |    |
|                    |            |                              | 14                                      | 051        | 047        | 075    | 11.5           | 7.0  | 4.2 |                    |            |                              | 9                                       | 032        | 025        | 041    | 8.2            | 6.7  | 4.4 |          |                |    |          |                |    |
|                    |            |                              | 15                                      | 059        | 055        | 086    | 12.3           | 8.4  | 4.8 |                    |            |                              | 10                                      | 039        | 033        | 050    | 9.1            | 7.4  | 4.9 |          |                |    |          |                |    |
|                    |            |                              | 16                                      | 067        | 064        | 098    | 13.2           | 8.9  | 5.1 |                    |            |                              | 11                                      | 047        | 042        | 061    | 10.0           | 8.1  | 5.4 |          |                |    |          |                |    |
|                    |            |                              | 17                                      | 076        | 073        | 111    | 14.0           | 9.5  | 5.4 |                    |            |                              | 12                                      | 056        | 051        | 072    | 11.0           | 8.9  | 5.9 |          |                |    |          |                |    |
|                    |            |                              | 18                                      | 085        | 082        | 123    | 14.8           | 10.0 | 5.8 |                    |            |                              | 13                                      | 066        | 062        | 085    | 11.9           | 9.6  | 6.4 |          |                |    |          |                |    |
|                    |            |                              | 19                                      | 095        | 092        | 138    | 15.6           | 10.6 | 6.1 |                    |            |                              | 14                                      | 077        | 073        | 099    | 12.8           | 10.4 | 6.9 |          |                |    |          |                |    |
|                    |            |                              | 20                                      | 105        | 102        | 153    | 16.5           | 11.2 | 6.4 |                    |            |                              | 7                                       | 0.019      | 0.007      | 0.024  | 6.3            | 5.0  | 3.3 |          |                |    |          |                |    |
|                    |            |                              | 21                                      | 116        | 113        | 168    | 17.3           | 11.8 | 6.7 |                    |            |                              | 8                                       | 024        | 015        | 031    | 7.2            | 5.8  | 3.8 |          |                |    |          |                |    |
| 0.54               | I          | 69                           | 10                                      | 0.025      | 0.019      | 0.037  | 8.1            | 5.4  | 3.0 | 0.72               | IV         | 44                           | 9                                       | 0.030      | 0.027      | 0.040  | 8.1            | 6.5  | 4.3 |          |                |    |          |                |    |
|                    |            |                              | 11                                      | 031        | 026        | 045    | 8.9            | 5.9  | 3.3 |                    |            |                              | 10                                      | 038        | 032        | 049    | 9.0            | 7.2  | 4.7 |          |                |    |          |                |    |
|                    |            |                              | 12                                      | 036        | 032        | 054    | 9.8            | 6.5  | 3.6 |                    |            |                              | 11                                      | 046        | 041        | 059    | 9.9            | 7.9  | 5.2 |          |                |    |          |                |    |
|                    |            |                              | 13                                      | 043        | 039        | 063    | 10.5           | 7.0  | 3.9 |                    |            |                              | 12                                      | 055        | 050        | 071    | 10.8           | 8.6  | 5.7 |          |                |    |          |                |    |
|                    |            |                              | 14                                      | 049        | 045        | 073    | 11.4           | 7.6  | 4.2 |                    |            |                              | 13                                      | 064        | 060        | 083    | 11.7           | 9.4  | 6.2 |          |                |    |          |                |    |
|                    |            |                              | 15                                      | 057        | 053        | 085    | 12.2           | 8.1  | 4.5 |                    |            |                              | 14                                      | 075        | 071        | 097    | 12.6           | 10.1 | 6.6 |          |                |    |          |                |    |
|                    |            |                              | 16                                      | 065        | 062        | 096    | 13.0           | 8.6  | 4.8 |                    |            |                              | 15                                      | 085        | 081        | 111    | 13.5           | 10.8 | 7.1 |          |                |    |          |                |    |
|                    |            |                              | 17                                      | 073        | 070        | 108    | 13.8           | 9.2  | 5.1 |                    |            |                              | 8                                       | 0.024      | 0.015      | 0.031  | 7.1            | 5.6  | 3.7 |          |                |    |          |                |    |
|                    |            |                              | 18                                      | 082        | 079        | 121    | 14.6           | 9.7  | 5.4 |                    |            |                              | 9                                       | 030        | 023        | 039    | 8.0            | 6.3  | 4.1 |          |                |    |          |                |    |
|                    |            |                              | 19                                      | 091        | 088        | 135    | 15.4           | 10.3 | 5.7 |                    |            |                              | 10                                      | 037        | 031        | 048    | 8.9            | 7.0  | 4.6 |          |                |    |          |                |    |
|                    |            |                              | 20                                      | 101        | 098        | 149    | 16.3           | 10.8 | 6.0 |                    |            |                              | 11                                      | 045        | 040        | 058    | 9.8            | 7.7  | 5.0 |          |                |    |          |                |    |
|                    |            |                              | 21                                      | 111        | 108        | 165    | 17.1           | 11.3 | 6.3 |                    |            |                              | 12                                      | 053        | 048        | 069    | 10.7           | 8.4  | 5.5 |          |                |    |          |                |    |
| 0.52               | I          | 72                           | 11                                      | 0.029      | 0.024      | 0.044  | 8.8            | 5.7  | 3.1 | 0.70               | IV         | 47                           | 13                                      | 0.063      | 0.059      | 0.082  | 11.6           | 9.1  | 5.9 |          |                |    |          |                |    |
|                    |            |                              | 12                                      | 035        | 031        | 053    | 9.6            | 6.2  | 3.4 |                    |            |                              | 14                                      | 072        | 068        | 095    | 12.5           | 9.8  | 6.4 |          |                |    |          |                |    |
|                    |            |                              | 13                                      | 041        | 037        | 062    | 10.4           | 6.8  | 3.6 |                    |            |                              | 15                                      | 083        | 079        | 108    | 13.4           | 10.5 | 6.9 |          |                |    |          |                |    |
|                    |            |                              | 14                                      | 048        | 044        | 071    | 11.2           | 7.3  | 3.9 |                    |            |                              | 16                                      | 095        | 092        | 123    | 14.3           | 11.2 | 7.3 |          |                |    |          |                |    |
|                    |            |                              | 15                                      | 055        | 052        | 082    | 12.0           | 7.8  | 4.2 |                    |            |                              | 9                                       | 0.029      | 0.022      | 0.038  | 7.9            | 6.1  | 4.0 |          |                |    |          |                |    |
|                    |            |                              | 16                                      | 062        | 059        | 094    | 12.8           | 8.3  | 4.5 |                    |            |                              | 10                                      | 036        | 030        | 047    | 8.8            | 6.8  | 4.4 |          |                |    |          |                |    |
|                    |            |                              | 17                                      | 070        | 067        | 106    | 13.7           | 8.8  | 4.8 |                    |            |                              | 11                                      | 043        | 038        | 057    | 9.6            | 7.5  | 4.8 |          |                |    |          |                |    |
|                    |            |                              | 18                                      | 078        | 075        | 118    | 14.5           | 9.4  | 5.0 |                    |            |                              | 12                                      | 052        | 047        | 068    | 10.5           | 8.2  | 5.3 |          |                |    |          |                |    |
|                    |            |                              | 19                                      | 088        | 085        | 132    | 15.3           | 9.9  | 5.3 |                    |            |                              | 13                                      | 061        | 057        | 080    | 11.4           | 8.8  | 5.7 |          |                |    |          |                |    |
|                    |            |                              | 20                                      | 097        | 094        | 146    | 16.1           | 10.4 | 5.6 |                    |            |                              | 14                                      | 070        | 066        | 093    | 12.3           | 9.5  | 6.1 |          |                |    |          |                |    |
|                    |            |                              | 21                                      | 107        | 104        | 161    | 16.9           | 10.9 | 5.9 |                    |            |                              | 15                                      | 080        | 076        | 106    | 13.2           | 10.2 | 6.6 |          |                |    |          |                |    |





## Höhe 10 m.

## Höhe 11 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |     | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |     |          |  |  |          |  |  |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|----------------|-----|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|-----|----------|--|--|----------|--|--|
|                    |                |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2            | 3/4 |                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4 |          |  |  |          |  |  |
|                    |                |                              |                                         |            |            |        |                |                |     |                    |            |                              |                                         |            |            |        |                |      |     | der Höhe |  |  | der Höhe |  |  |
|                    |                |                              |                                         |            |            |        |                |                |     |                    |            |                              |                                         |            |            |        |                |      |     | cm       |  |  | cm       |  |  |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |            |        | cm             | m <sup>3</sup> |     |                    | cm         |                              |                                         |            |            |        |                |      |     |          |  |  |          |  |  |
| 0·60               | II             | 55                           | 18                                      | 0·110      | 0·107      | 0·141  | 14·8           | 10·8           | 6·7 | 0·78               | V          | 36                           | 8                                       | 0·032      | 0·021      | 0·039  | 7·4            | 6·2  | 4·3 |          |  |  |          |  |  |
|                    |                |                              | 19                                      | 123        | 120        | 166    | 15·7           | 11·4           | 7·1 |                    |            |                              | 9                                       | 041        | 033        | 049    | 8·3            | 7·0  | 4·8 |          |  |  |          |  |  |
|                    |                |                              | 20                                      | 137        | 134        | 184    | 16·5           | 12·0           | 7·5 |                    |            |                              | 10                                      | 050        | 043        | 060    | 9·3            | 7·8  | 5·4 |          |  |  |          |  |  |
|                    |                |                              | 21                                      | 151        | 148        | 203    | 17·3           | 12·6           | 7·8 |                    |            |                              | 11                                      | 060        | 054        | 072    | 10·2           | 8·6  | 5·9 |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 168        | 165        | 226    | 18·2           | 13·2           | 8·2 |                    |            |                              | 12                                      | 072        | 067        | 087    | 11·1           | 9·4  | 6·5 |          |  |  |          |  |  |
|                    |                |                              | 23                                      | 181        | 178        | 243    | 19·0           | 13·8           | 8·6 |                    |            |                              | 13                                      | 085        | 080        | 102    | 12·1           | 10·1 | 7·0 |          |  |  |          |  |  |
|                    |                |                              | 24                                      | 197        | 194        | 265    | 19·8           | 14·4           | 9·0 |                    |            |                              | 14                                      | 098        | 094        | 118    | 13·0           | 10·9 | 7·5 |          |  |  |          |  |  |
| 0·58               | II             | 57                           | 14                                      | 0·064      | 0·060      | 0·088  | 11·4           | 8·1            | 5·0 | 0·76               | V          | 37                           | 8                                       | 0·031      | 0·020      | 0·038  | 7·3            | 6·1  | 4·2 |          |  |  |          |  |  |
|                    |                |                              | 15                                      | 074        | 070        | 101    | 12·2           | 8·7            | 5·3 |                    |            |                              | 9                                       | 039        | 031        | 048    | 8·2            | 6·8  | 4·7 |          |  |  |          |  |  |
|                    |                |                              | 16                                      | 084        | 080        | 115    | 13·0           | 9·3            | 5·7 |                    |            |                              | 10                                      | 049        | 042        | 059    | 9·1            | 7·6  | 5·2 |          |  |  |          |  |  |
|                    |                |                              | 17                                      | 095        | 091        | 130    | 13·8           | 9·9            | 6·0 |                    |            |                              | 11                                      | 058        | 052        | 071    | 10·1           | 8·4  | 5·7 |          |  |  |          |  |  |
|                    |                |                              | 18                                      | 106        | 102        | 145    | 14·7           | 10·4           | 6·4 |                    |            |                              | 12                                      | 070        | 065        | 085    | 11·0           | 9·1  | 6·2 |          |  |  |          |  |  |
|                    |                |                              | 19                                      | 119        | 116        | 162    | 15·5           | 11·0           | 6·7 | 0·74               | V          | 38                           | 13                                      | 082        | 077        | 100    | 11·9           | 9·9  | 6·8 |          |  |  |          |  |  |
|                    |                |                              | 20                                      | 131        | 128        | 180    | 16·3           | 11·6           | 7·1 |                    |            |                              | 14                                      | 095        | 091        | 116    | 12·8           | 10·6 | 7·3 |          |  |  |          |  |  |
|                    |                |                              | 21                                      | 145        | 142        | 198    | 17·1           | 12·2           | 7·5 |                    |            |                              | 15                                      | 109        | 105        | 134    | 13·7           | 11·4 | 7·8 |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 161        | 158        | 221    | 17·9           | 12·8           | 7·8 |                    |            |                              | 9                                       | 0·038      | 0·030      | 0·047  | 8·1            | 6·7  | 4·5 |          |  |  |          |  |  |
|                    |                |                              | 23                                      | 173        | 170        | 237    | 18·7           | 13·3           | 8·2 |                    |            |                              | 10                                      | 047        | 040        | 058    | 9·0            | 7·4  | 5·0 |          |  |  |          |  |  |
|                    |                |                              | 24                                      | 189        | 186        | 255    | 19·5           | 13·9           | 8·5 |                    |            |                              | 11                                      | 057        | 051        | 070    | 9·9            | 8·1  | 5·5 |          |  |  |          |  |  |
| 0·56               | I              | 60                           | 16                                      | 0·081      | 0·077      | 0·112  | 12·8           | 9·0            | 5·4 | 0·74               | V          | 38                           | 12                                      | 068        | 063        | 083    | 10·8           | 8·9  | 6·0 |          |  |  |          |  |  |
|                    |                |                              | 17                                      | 091        | 087        | 127    | 13·7           | 9·5            | 5·7 |                    |            |                              | 13                                      | 080        | 075        | 098    | 11·7           | 9·6  | 6·5 |          |  |  |          |  |  |
|                    |                |                              | 18                                      | 102        | 099        | 142    | 14·5           | 10·1           | 6·0 |                    |            |                              | 14                                      | 092        | 088        | 113    | 12·6           | 10·4 | 7·0 |          |  |  |          |  |  |
|                    |                |                              | 19                                      | 114        | 111        | 158    | 15·3           | 10·6           | 6·4 |                    |            |                              | 15                                      | 106        | 102        | 131    | 13·5           | 11·1 | 7·5 |          |  |  |          |  |  |
|                    |                |                              | 20                                      | 126        | 123        | 175    | 16·1           | 11·2           | 6·7 | 0·72               | IV         | 40                           | 16                                      | 120        | 116        | 148    | 14·4           | 11·8 | 8·0 |          |  |  |          |  |  |
|                    |                |                              | 21                                      | 139        | 136        | 193    | 16·9           | 11·8           | 7·1 |                    |            |                              | 9                                       | 0·037      | 0·029      | 0·046  | 8·1            | 6·5  | 4·4 |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 146        | 153        | 215    | 17·7           | 12·3           | 7·4 |                    |            |                              | 10                                      | 046        | 039        | 057    | 9·0            | 7·2  | 4·8 |          |  |  |          |  |  |
|                    |                |                              | 23                                      | 167        | 164        | 232    | 18·5           | 12·9           | 7·7 |                    |            |                              | 11                                      | 055        | 049        | 068    | 9·9            | 7·9  | 5·3 |          |  |  |          |  |  |
| 0·54               | I              | 63                           | 24                                      | 182        | 179        | 252    | 19·3           | 13·4           | 8·1 | 0·72               | IV         | 40                           | 12                                      | 065        | 060        | 081    | 10·8           | 8·6  | 5·8 |          |  |  |          |  |  |
|                    |                |                              | 18                                      | 0·098      | 0·094      | 0·140  | 14·3           | 9·7            | 5·7 |                    |            |                              | 13                                      | 077        | 072        | 096    | 11·6           | 9·4  | 6·3 |          |  |  |          |  |  |
|                    |                |                              | 19                                      | 110        | 107        | 157    | 15·0           | 10·3           | 6·0 |                    |            |                              | 14                                      | 089        | 085        | 111    | 12·5           | 10·0 | 6·8 |          |  |  |          |  |  |
|                    |                |                              | 20                                      | 121        | 118        | 174    | 15·8           | 10·8           | 6·3 |                    |            |                              | 15                                      | 103        | 099        | 128    | 13·4           | 10·8 | 7·3 |          |  |  |          |  |  |
|                    |                |                              | 21                                      | 134        | 131        | 192    | 16·6           | 11·3           | 6·6 |                    |            |                              | 16                                      | 117        | 113        | 145    | 15·3           | 11·5 | 7·8 |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 149        | 146        | 214    | 17·4           | 11·9           | 7·0 | 0·70               | IV         | 43                           | 17                                      | 132        | 128        | 165    | 15·2           | 12·2 | 8·2 |          |  |  |          |  |  |
|                    |                |                              | 23                                      | 161        | 158        | 230    | 18·2           | 12·4           | 7·3 |                    |            |                              | 10                                      | 0·044      | 0·037      | 0·055  | 8·8            | 7·0  | 4·7 |          |  |  |          |  |  |
|                    |                |                              | 24                                      | 175        | 172        | 250    | 19·0           | 13·0           | 7·6 |                    |            |                              | 11                                      | 053        | 047        | 067    | 9·6            | 7·7  | 5·1 |          |  |  |          |  |  |
|                    |                |                              | 25                                      | 190        | 187        | 272    | 19·8           | 13·5           | 7·9 |                    |            |                              | 12                                      | 063        | 053        | 079    | 10·5           | 8·4  | 5·6 |          |  |  |          |  |  |
|                    |                |                              | 26                                      | 205        | 202        | 294    | 20·6           | 14·0           | 8·2 |                    |            |                              | 13                                      | 075        | 070        | 093    | 11·4           | 9·1  | 6·1 |          |  |  |          |  |  |
|                    |                |                              | 27                                      | 222        | 222        | 317    | 21·4           | 14·6           | 8·5 |                    |            |                              | 14                                      | 086        | 082        | 108    | 12·3           | 9·8  | 6·6 |          |  |  |          |  |  |
| 0·52               | I              | 65                           | 19                                      | 0·105      | 0·102      | 0·150  | 14·8           | 9·9            | 5·7 | 0·70               | IV         | 43                           | 15                                      | 099        | 095        | 125    | 13·2           | 10·5 | 7·0 |          |  |  |          |  |  |
|                    |                |                              | 20                                      | 116        | 113        | 166    | 15·6           | 10·4           | 6·0 |                    |            |                              | 16                                      | 113        | 109        | 142    | 14·0           | 11·2 | 7·5 |          |  |  |          |  |  |
|                    |                |                              | 21                                      | 128        | 125        | 183    | 16·4           | 10·9           | 6·3 |                    |            |                              | 17                                      | 128        | 124        | 160    | 14·9           | 11·9 | 8·0 |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 143        | 140        | 204    | 17·2           | 11·4           | 6·6 |                    |            |                              | 18                                      | 143        | 139        | 179    | 15·8           | 12·6 | 8·4 |          |  |  |          |  |  |
|                    |                |                              | 23                                      | 154        | 151        | 219    | 18·0           | 12·0           | 6·9 |                    |            |                              | 19                                      | 159        | 155        | 200    | 16·7           | 13·3 | 8·9 |          |  |  |          |  |  |
|                    |                |                              | 24                                      | 168        | 165        | 239    | 18·7           | 12·5           | 7·2 | 0·68               | IV         | 45                           | 11                                      | 0·052      | 0·046      | 0·065  | 9·5            | 7·5  | 4·9 |          |  |  |          |  |  |
|                    |                |                              | 25                                      | 182        | 179        | 260    | 19·5           | 13·0           | 7·4 |                    |            |                              | 12                                      | 061        | 056        | 078    | 10·4           | 8·2  | 5·4 |          |  |  |          |  |  |
|                    |                |                              | 26                                      | 197        | 194        | 281    | 20·3           | 13·5           | 7·7 |                    |            |                              | 13                                      | 072        | 067        | 092    | 11·2           | 8·8  | 5·8 |          |  |  |          |  |  |
|                    |                |                              | 27                                      | 212        | 209        | 303    | 21·1           | 14·0           | 8·0 |                    |            |                              | 14                                      | 084        | 080        | 106    | 12·1           | 9·5  | 6·3 |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 228        | 225        | 326    | 21·9           | 14·6           | 8·3 |                    |            |                              | 15                                      | 097        | 093        | 122    | 13·0           | 10·2 | 6·7 |          |  |  |          |  |  |

## Höhe 11 m.

## Höhe 11 m.

| Formquotient $q_1$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |      |     |
|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|------|-----|
|                    |            |                              |                                         | Schafes        | Derbholzes | Baumes | 1/4            | 1/2  | 3/4 |
|                    |            |                              |                                         |                |            |        | der Höhe       |      |     |
|                    |            |                              | cm                                      | m <sup>3</sup> |            |        | cm             |      |     |
| 0.68               | IV         | 45                           | 16                                      | 0.109          | 0.105      | 0.138  | 13.8           | 10.9 | 7.2 |
|                    |            |                              | 17                                      | 123            | 119        | 157    | 14.7           | 11.6 | 7.6 |
|                    |            |                              | 18                                      | 138            | 134        | 175    | 15.6           | 12.2 | 8.1 |
|                    |            |                              | 19                                      | 154            | 150        | 196    | 16.4           | 12.9 | 8.6 |
|                    |            |                              | 20                                      | 171            | 167        | 216    | 17.3           | 13.6 | 9.0 |
| 0.66               | III        | 47                           | 12                                      | 0.059          | 0.054      | 0.076  | 10.2           | 7.9  | 5.2 |
|                    |            |                              | 13                                      | 070            | 065        | 089    | 11.1           | 8.6  | 5.6 |
|                    |            |                              | 14                                      | 081            | 077        | 103    | 11.9           | 9.2  | 6.0 |
|                    |            |                              | 15                                      | 093            | 089        | 119    | 12.7           | 9.9  | 6.5 |
|                    |            |                              | 16                                      | 106            | 102        | 135    | 13.7           | 10.6 | 6.9 |
|                    |            |                              | 17                                      | 119            | 115        | 152    | 14.5           | 11.2 | 7.3 |
|                    |            |                              | 18                                      | 133            | 129        | 170    | 15.3           | 11.9 | 7.8 |
|                    |            |                              | 19                                      | 149            | 145        | 191    | 16.2           | 11.5 | 8.2 |
|                    |            |                              | 20                                      | 165            | 161        | 211    | 17.1           | 13.2 | 8.6 |
|                    |            |                              | 21                                      | 182            | 179        | 233    | 17.9           | 13.9 | 9.1 |
| 0.64               | III        | 50                           | 13                                      | 0.067          | 0.062      | 0.087  | 10.9           | 8.3  | 5.3 |
|                    |            |                              | 14                                      | 078            | 074        | 100    | 11.8           | 9.0  | 5.7 |
|                    |            |                              | 15                                      | 090            | 086        | 116    | 12.6           | 9.6  | 6.1 |
|                    |            |                              | 16                                      | 102            | 098        | 132    | 13.5           | 10.2 | 6.6 |
|                    |            |                              | 17                                      | 115            | 114        | 149    | 14.3           | 10.9 | 7.0 |
|                    |            |                              | 18                                      | 129            | 125        | 166    | 15.1           | 11.5 | 7.4 |
|                    |            |                              | 19                                      | 144            | 140        | 186    | 16.0           | 12.2 | 7.8 |
|                    |            |                              | 20                                      | 159            | 155        | 206    | 16.8           | 12.8 | 8.2 |
|                    |            |                              | 21                                      | 176            | 173        | 227    | 17.7           | 13.4 | 8.6 |
|                    |            |                              | 22                                      | 196            | 193        | 253    | 18.5           | 14.1 | 9.0 |
| 0.62               | III        | 52                           | 13                                      | 0.065          | 0.059      | 0.085  | 10.8           | 8.1  | 5.1 |
|                    |            |                              | 14                                      | 075            | 070        | 098    | 11.6           | 8.7  | 5.5 |
|                    |            |                              | 15                                      | 087            | 082        | 113    | 12.4           | 9.3  | 5.9 |
|                    |            |                              | 16                                      | 099            | 095        | 128    | 13.3           | 9.9  | 6.3 |
|                    |            |                              | 17                                      | 111            | 107        | 145    | 14.1           | 10.5 | 6.7 |
|                    |            |                              | 18                                      | 124            | 120        | 162    | 14.9           | 11.2 | 7.1 |
|                    |            |                              | 19                                      | 139            | 135        | 181    | 15.8           | 11.8 | 7.5 |
|                    |            |                              | 20                                      | 154            | 150        | 200    | 16.6           | 12.4 | 7.9 |
|                    |            |                              | 21                                      | 170            | 166        | 221    | 17.4           | 13.0 | 8.3 |
|                    |            |                              | 22                                      | 190            | 186        | 247    | 18.2           | 13.6 | 8.7 |
|                    |            |                              | 23                                      | 203            | 200        | 265    | 19.1           | 14.3 | 9.1 |
| 0.60               | II         | 53                           | 14                                      | 0.072          | 0.068      | 0.096  | 11.5           | 8.4  | 5.3 |
|                    |            |                              | 15                                      | 084            | 080        | 110    | 12.3           | 9.0  | 5.7 |
|                    |            |                              | 16                                      | 095            | 091        | 125    | 13.1           | 9.6  | 6.0 |
|                    |            |                              | 17                                      | 107            | 103        | 142    | 13.9           | 10.2 | 6.4 |
|                    |            |                              | 18                                      | 120            | 116        | 158    | 14.7           | 10.8 | 6.8 |
|                    |            |                              | 19                                      | 134            | 130        | 176    | 15.5           | 11.4 | 7.2 |
|                    |            |                              | 20                                      | 148            | 144        | 195    | 16.3           | 12.0 | 7.6 |
|                    |            |                              | 21                                      | 163            | 160        | 216    | 17.2           | 12.6 | 7.9 |
|                    |            |                              | 22                                      | 183            | 180        | 240    | 18.0           | 13.2 | 8.3 |
|                    |            |                              | 23                                      | 196            | 193        | 258    | 18.8           | 13.8 | 8.7 |
|                    |            |                              | 24                                      | 213            | 210        | 281    | 19.6           | 14.4 | 9.1 |
| 0.58               | II         | 56                           | 15                                      | 0.080          | 0.076      | 0.108  | 12.1           | 8.7  | 5.4 |
|                    |            |                              | 16                                      | 091            | 087        | 122    | 12.9           | 9.3  | 5.8 |
|                    |            |                              | 17                                      | 103            | 099        | 138    | 13.7           | 9.9  | 6.1 |
|                    |            |                              | 18                                      | 115            | 111        | 154    | 14.5           | 10.4 | 6.5 |
|                    |            |                              | 19                                      | 128            | 124        | 172    | 15.3           | 11.0 | 6.9 |
|                    |            |                              | 20                                      | 142            | 138        | 190    | 16.1           | 11.6 | 7.2 |
|                    |            |                              | 21                                      | 157            | 154        | 210    | 16.9           | 12.2 | 7.6 |
|                    |            |                              | 22                                      | 175            | 172        | 235    | 17.7           | 12.8 | 7.9 |
|                    |            |                              | 23                                      | 188            | 185        | 252    | 18.5           | 13.3 | 8.3 |
|                    |            |                              | 24                                      | 205            | 202        | 274    | 19.3           | 13.9 | 8.7 |
|                    |            |                              | 25                                      | 222            | 219        | 298    | 20.1           | 14.5 | 9.0 |
| 0.56               | II         | 58                           | 17                                      | 0.099          | 0.095      | 0.135  | 13.5           | 9.5  | 5.8 |
|                    |            |                              | 18                                      | 111            | 107        | 150    | 14.3           | 10.0 | 6.2 |
|                    |            |                              | 19                                      | 124            | 120        | 168    | 15.1           | 10.6 | 6.5 |
|                    |            |                              | 20                                      | 137            | 133        | 186    | 15.9           | 11.2 | 6.8 |
|                    |            |                              | 21                                      | 151            | 148        | 205    | 16.7           | 11.8 | 7.2 |
|                    |            |                              | 22                                      | 169            | 166        | 229    | 17.5           | 12.3 | 7.5 |
|                    |            |                              | 23                                      | 181            | 178        | 245    | 18.3           | 12.9 | 7.9 |
|                    |            |                              | 24                                      | 197            | 194        | 267    | 19.1           | 13.4 | 8.2 |
|                    |            |                              | 25                                      | 214            | 211        | 291    | 19.9           | 14.0 | 8.5 |
|                    |            |                              | 26                                      | 232            | 229        | 314    | 20.7           | 14.6 | 8.9 |
| 0.54               | I          | 61                           | 27                                      | 250            | 247        | 339    | 21.5           | 15.1 | 9.2 |
|                    |            |                              | 28                                      | 269            | 266        | 365    | 22.3           | 15.7 | 9.6 |
|                    |            |                              | 19                                      | 0.119          | 0.115      | 0.163  | 14.9           | 10.3 | 6.1 |
|                    |            |                              | 20                                      | 131            | 127        | 181    | 15.7           | 10.8 | 6.5 |
|                    |            |                              | 21                                      | 145            | 142        | 200    | 16.5           | 11.3 | 6.8 |
|                    |            |                              | 22                                      | 162            | 159        | 223    | 17.2           | 11.9 | 7.1 |
|                    |            |                              | 23                                      | 174            | 171        | 239    | 18.0           | 12.4 | 7.4 |
|                    |            |                              | 24                                      | 189            | 186        | 260    | 18.8           | 13.0 | 7.8 |
|                    |            |                              | 25                                      | 206            | 203        | 283    | 19.6           | 13.5 | 8.1 |
|                    |            |                              | 26                                      | 222            | 219        | 306    | 20.4           | 14.0 | 8.4 |
| 0.52               | I          | 63                           | 27                                      | 240            | 237        | 330    | 21.2           | 14.6 | 8.7 |
|                    |            |                              | 28                                      | 258            | 255        | 355    | 22.0           | 15.1 | 9.0 |
|                    |            |                              | 29                                      | 277            | 274        | 381    | 22.7           | 15.7 | 9.4 |
|                    |            |                              | 30                                      | 296            | 293        | 408    | 23.5           | 16.2 | 9.7 |
|                    |            |                              | 21                                      | 0.139          | 0.136      | 0.194  | 16.2           | 10.9 | 6.4 |
|                    |            |                              | 22                                      | 155            | 152        | 216    | 17.0           | 11.4 | 6.7 |
|                    |            |                              | 23                                      | 166            | 163        | 232    | 17.8           | 12.0 | 7.0 |
|                    |            |                              | 24                                      | 181            | 178        | 253    | 18.6           | 12.5 | 7.3 |
|                    |            |                              | 25                                      | 197            | 194        | 275    | 19.3           | 13.0 | 7.6 |
|                    |            |                              | 26                                      | 213            | 210        | 297    | 20.1           | 13.5 | 7.9 |
|                    |            |                              | 27                                      | 229            | 226        | 321    | 20.9           | 14.0 | 8.2 |
|                    |            |                              | 28                                      | 247            | 244        | 345    | 21.6           | 14.6 | 8.5 |
|                    |            |                              | 29                                      | 265            | 262        | 370    | 22.4           | 15.1 | 8.8 |
|                    |            |                              | 30                                      | 284            | 281        | 396    | 23.2           | 15.6 | 9.1 |
|                    |            |                              | 31                                      | 302            | 299        | 422    | 24.0           | 16.1 | 9.5 |
|                    |            |                              | 32                                      | 323            | 320        | 450    | 24.7           | 16.6 | 9.8 |

Höhe 12 m.

Höhe 12 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |                |    |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|----------------|----|
|                    |            |                              |                                         | Schafes    | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |                |    |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |                |    |
|                    |            |                              |                                         |            |            |        |                |               |               | cm       | m <sup>3</sup> | cm |
| 0·78               | V          | 33                           | 8                                       | 0·035      | 0·024      | 0·041  | 7·4            | 6·2           | 4·3           |          |                |    |
|                    |            |                              | 9                                       | 044        | 036        | 052    | 8·3            | 7·0           | 4·9           |          |                |    |
|                    |            |                              | 10                                      | 054        | 047        | 065    | 9·2            | 7·8           | 5·4           |          |                |    |
|                    |            |                              | 11                                      | 065        | 059        | 078    | 10·1           | 8·6           | 5·9           |          |                |    |
|                    |            |                              | 12                                      | 078        | 072        | 093    | 11·1           | 9·4           | 6·5           |          |                |    |
|                    |            |                              | 13                                      | 092        | 087        | 110    | 12·0           | 10·1          | 7·0           |          |                |    |
|                    |            |                              | 14                                      | 106        | 101        | 127    | 12·9           | 10·9          | 7·6           |          |                |    |
| 0·76               | V          | 35                           | 9                                       | 0·043      | 0·035      | 0·051  | 8·2            | 6·8           | 4·7           |          |                |    |
|                    |            |                              | 10                                      | 053        | 047        | 063    | 9·1            | 7·6           | 5·2           |          |                |    |
|                    |            |                              | 11                                      | 064        | 058        | 077    | 10·0           | 8·4           | 5·8           |          |                |    |
|                    |            |                              | 12                                      | 076        | 070        | 091    | 10·9           | 9·4           | 6·3           |          |                |    |
|                    |            |                              | 13                                      | 089        | 084        | 108    | 11·8           | 9·9           | 6·8           |          |                |    |
|                    |            |                              | 14                                      | 103        | 098        | 124    | 12·7           | 10·6          | 7·3           |          |                |    |
|                    |            |                              | 15                                      | 118        | 114        | 142    | 13·6           | 11·4          | 7·9           |          |                |    |
| 0·74               | V          | 37                           | 10                                      | 0·051      | 0·044      | 0·062  | 8·9            | 7·6           | 5·1           |          |                |    |
|                    |            |                              | 11                                      | 062        | 056        | 075    | 9·9            | 8·1           | 5·6           |          |                |    |
|                    |            |                              | 12                                      | 073        | 067        | 089    | 10·8           | 8·9           | 6·1           |          |                |    |
|                    |            |                              | 13                                      | 086        | 081        | 105    | 11·7           | 9·6           | 6·6           |          |                |    |
|                    |            |                              | 14                                      | 100        | 095        | 121    | 12·6           | 10·4          | 7·1           |          |                |    |
|                    |            |                              | 15                                      | 115        | 111        | 139    | 13·5           | 11·1          | 7·6           |          |                |    |
|                    |            |                              | 16                                      | 126        | 126        | 158    | 14·4           | 11·8          | 8·1           |          |                |    |
|                    |            |                              | 17                                      | 143        | 143        | 179    | 15·2           | 12·6          | 8·6           |          |                |    |
| 0·72               | IV         | 39                           | 10                                      | 0·049      | 0·042      | 0·060  | 8·8            | 7·2           | 4·9           |          |                |    |
|                    |            |                              | 11                                      | 060        | 054        | 073    | 9·7            | 7·9           | 5·4           |          |                |    |
|                    |            |                              | 12                                      | 071        | 065        | 087    | 10·6           | 8·6           | 5·9           |          |                |    |
|                    |            |                              | 13                                      | 083        | 078        | 103    | 11·5           | 9·4           | 6·4           |          |                |    |
|                    |            |                              | 14                                      | 097        | 092        | 118    | 12·4           | 10·1          | 6·8           |          |                |    |
|                    |            |                              | 15                                      | 111        | 107        | 136    | 13·3           | 10·8          | 7·3           |          |                |    |
|                    |            |                              | 16                                      | 126        | 122        | 154    | 14·2           | 11·5          | 7·8           |          |                |    |
|                    |            |                              | 17                                      | 142        | 138        | 174    | 15·0           | 12·2          | 8·3           |          |                |    |
|                    |            |                              | 18                                      | 160        | 156        | 195    | 15·9           | 13·0          | 8·8           |          |                |    |
| 0·70               | IV         | 42                           | 11                                      | 0·058      | 0·052      | 0·071  | 9·6            | 7·7           | 5·2           |          |                |    |
|                    |            |                              | 12                                      | 069        | 063        | 085    | 10·5           | 8·4           | 5·7           |          |                |    |
|                    |            |                              | 13                                      | 081        | 076        | 100    | 11·3           | 9·1           | 6·1           |          |                |    |
|                    |            |                              | 14                                      | 094        | 089        | 116    | 12·2           | 9·8           | 6·6           |          |                |    |
|                    |            |                              | 15                                      | 107        | 103        | 133    | 13·1           | 10·5          | 7·1           |          |                |    |
|                    |            |                              | 16                                      | 122        | 118        | 151    | 14·0           | 11·2          | 7·5           |          |                |    |
|                    |            |                              | 17                                      | 138        | 134        | 170    | 14·8           | 11·9          | 8·0           |          |                |    |
|                    |            |                              | 18                                      | 155        | 151        | 191    | 15·7           | 12·6          | 8·5           |          |                |    |
|                    |            |                              | 19                                      | 173        | 169        | 213    | 16·6           | 13·3          | 9·0           |          |                |    |
|                    |            |                              | 20                                      | 191        | 187        | 236    | 17·4           | 14·0          | 9·4           |          |                |    |
| 0·68               | IV         | 43                           | 11                                      | 0·056      | 0·050      | 0·070  | 9·5            | 7·5           | 5·0           |          |                |    |
|                    |            |                              | 12                                      | 067        | 061        | 083    | 10·3           | 8·2           | 5·4           |          |                |    |
|                    |            |                              | 13                                      | 079        | 074        | 098    | 11·2           | 8·8           | 5·9           |          |                |    |
|                    |            |                              | 14                                      | 091        | 086        | 113    | 12·0           | 9·5           | 6·4           |          |                |    |
|                    |            |                              | 15                                      | 104        | 100        | 130    | 12·8           | 10·2          | 6·8           |          |                |    |
|                    |            |                              | 16                                      | 118        | 114        | 147    | 13·8           | 10·9          | 7·3           |          |                |    |

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |                |    |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|----------------|----|
|                    |            |                              |                                         | Schafes    | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |                |    |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |                |    |
|                    |            |                              |                                         |            |            |        |                |               |               | cm       | m <sup>3</sup> | cm |
| 0·68               | IV         | 43                           | 17                                      | 0·133      | 0·139      | 0·166  | 14·6           | 11·3          | 7·7           |          |                |    |
|                    |            |                              | 18                                      | 150        | 146        | 187    | 15·5           | 12·2          | 8·2           |          |                |    |
|                    |            |                              | 19                                      | 167        | 163        | 209    | 16·3           | 12·9          | 8·6           |          |                |    |
|                    |            |                              | 20                                      | 185        | 181        | 231    | 17·2           | 13·6          | 9·1           |          |                |    |
|                    |            |                              | 21                                      | 204        | 201        | 254    | 18·1           | 14·3          | 9·5           |          |                |    |
|                    |            |                              | 12                                      | 0·064      | 0·058      | 0·081  | 10·2           | 7·9           | 5·2           |          |                |    |
|                    |            |                              | 13                                      | 075        | 070        | 095    | 11·0           | 8·6           | 5·6           |          |                |    |
|                    |            |                              | 14                                      | 088        | 083        | 110    | 11·9           | 9·2           | 6·1           |          |                |    |
|                    |            |                              | 15                                      | 100        | 096        | 126    | 12·7           | 9·9           | 6·5           |          |                |    |
|                    |            |                              | 16                                      | 114        | 110        | 144    | 13·6           | 10·6          | 7·0           |          |                |    |
|                    |            |                              | 17                                      | 129        | 125        | 162    | 14·4           | 11·2          | 7·4           |          |                |    |
|                    |            |                              | 18                                      | 144        | 139        | 182    | 15·3           | 11·9          | 7·8           |          |                |    |
|                    |            |                              | 19                                      | 162        | 158        | 202    | 16·4           | 12·5          | 8·3           |          |                |    |
|                    |            |                              | 20                                      | 179        | 175        | 225    | 17·0           | 13·2          | 8·7           |          |                |    |
|                    |            |                              | 21                                      | 197        | 194        | 248    | 17·8           | 13·9          | 9·1           |          |                |    |
|                    |            |                              | 22                                      | 219        | 216        | 276    | 18·7           | 14·5          | 9·6           |          |                |    |
| 0·66               | III        | 46                           | 13                                      | 0·073      | 0·068      | 0·093  | 10·9           | 8·3           | 5·4           |          |                |    |
|                    |            |                              | 14                                      | 084        | 079        | 107    | 11·7           | 9·0           | 5·9           |          |                |    |
|                    |            |                              | 15                                      | 097        | 093        | 123    | 12·5           | 9·6           | 6·3           |          |                |    |
|                    |            |                              | 16                                      | 110        | 106        | 140    | 13·4           | 10·2          | 6·7           |          |                |    |
|                    |            |                              | 17                                      | 124        | 120        | 158    | 14·2           | 10·9          | 7·1           |          |                |    |
|                    |            |                              | 18                                      | 139        | 135        | 177    | 15·0           | 11·5          | 7·5           |          |                |    |
|                    |            |                              | 19                                      | 156        | 152        | 198    | 15·8           | 12·2          | 8·0           |          |                |    |
|                    |            |                              | 20                                      | 172        | 168        | 219    | 16·7           | 12·8          | 8·4           |          |                |    |
|                    |            |                              | 21                                      | 190        | 187        | 243    | 17·5           | 13·4          | 8·8           |          |                |    |
|                    |            |                              | 22                                      | 211        | 208        | 269    | 18·4           | 14·1          | 9·2           |          |                |    |
|                    |            |                              | 23                                      | 227        | 224        | 289    | 19·2           | 14·7          | 9·6           |          |                |    |
| 0·64               | III        | 47                           | 14                                      | 0·082      | 0·077      | 0·105  | 11·5           | 8·7           | 5·6           |          |                |    |
|                    |            |                              | 15                                      | 094        | 090        | 119    | 12·3           | 9·3           | 6·0           |          |                |    |
|                    |            |                              | 16                                      | 106        | 102        | 136    | 13·2           | 9·9           | 6·4           |          |                |    |
|                    |            |                              | 17                                      | 120        | 116        | 154    | 14·0           | 10·5          | 6·8           |          |                |    |
|                    |            |                              | 18                                      | 135        | 131        | 173    | 14·8           | 11·2          | 7·2           |          |                |    |
|                    |            |                              | 19                                      | 151        | 147        | 193    | 15·6           | 11·8          | 7·6           |          |                |    |
|                    |            |                              | 20                                      | 167        | 163        | 213    | 16·5           | 12·4          | 8·0           |          |                |    |
|                    |            |                              | 21                                      | 184        | 181        | 235    | 17·3           | 13·0          | 8·4           |          |                |    |
|                    |            |                              | 22                                      | 205        | 201        | 262    | 18·1           | 13·6          | 8·8           |          |                |    |
|                    |            |                              | 23                                      | 220        | 217        | 282    | 18·9           | 14·3          | 9·2           |          |                |    |
|                    |            |                              | 24                                      | 239        | 236        | 307    | 19·8           | 14·9          | 9·6           |          |                |    |
| 0·62               | III        | 50                           | 15                                      | 0·090      | 0·086      | 0·117  | 12·2           | 9·0           | 5·7           |          |                |    |
|                    |            |                              | 16                                      | 102        | 098        | 133    | 13·0           | 9·6           | 6·1           |          |                |    |
|                    |            |                              | 17                                      | 116        | 112        | 150    | 13·8           | 10·2          | 6·5           |          |                |    |
|                    |            |                              | 18                                      | 130        | 126        | 168    | 14·6           | 10·8          | 6·9           |          |                |    |
|                    |            |                              | 19                                      | 145        | 141        | 188    | 15·4           | 11·4          | 7·3           |          |                |    |
|                    |            |                              | 20                                      | 160        | 156        | 208    | 16·2           | 12·0          | 7·7           |          |                |    |
|                    |            |                              | 21                                      | 177        | 174        | 229    | 17·0           | 12·6          | 8·0           |          |                |    |
|                    |            |                              | 22                                      | 197        | 194        | 255    | 17·9           | 13·2          | 8·4           |          |                |    |
|                    |            |                              | 23                                      | 212        | 209        | 274    | 18·7           | 13·8          | 8·8           |          |                |    |

## Höhe 12 m.

## Höhe 13 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |  |  |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|--|--|--|--|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |  |  |  |  |
|                    |            |                              |                                         |            |            |        |                |               |               |  |  |  |  |
| cm                 |            |                              |                                         | $m^3$      |            |        | cm             |               |               |  |  |  |  |
| der Höhe           |            |                              |                                         |            |            |        |                |               |               |  |  |  |  |
| 0.60               | II         | 51                           | 24                                      | 0.230      | 0.227      | 0.299  | 19.4           | 14.4          | 9.2           |  |  |  |  |
|                    |            |                              | 25                                      | 250        | 247        | 324    | 20.3           | 15.0          | 9.5           |  |  |  |  |
|                    |            |                              | 17                                      | 0.111      | 0.107      | 0.146  | 13.6           | 9.9           | 6.2           |  |  |  |  |
|                    |            |                              | 18                                      | 124        | 120        | 164    | 14.4           | 10.4          | 6.6           |  |  |  |  |
|                    |            |                              | 19                                      | 139        | 135        | 183    | 15.2           | 11.0          | 7.0           |  |  |  |  |
|                    |            |                              | 20                                      | 154        | 150        | 202    | 16.0           | 11.6          | 7.3           |  |  |  |  |
|                    |            |                              | 21                                      | 170        | 167        | 223    | 16.8           | 12.2          | 7.7           |  |  |  |  |
| 0.58               | II         | 54                           | 22                                      | 189        | 186        | 249    | 17.6           | 12.8          | 8.1           |  |  |  |  |
|                    |            |                              | 23                                      | 203        | 200        | 267    | 18.4           | 13.3          | 8.4           |  |  |  |  |
|                    |            |                              | 24                                      | 221        | 218        | 291    | 19.2           | 13.9          | 8.8           |  |  |  |  |
|                    |            |                              | 25                                      | 240        | 237        | 316    | 20.0           | 14.5          | 9.2           |  |  |  |  |
|                    |            |                              | 26                                      | 260        | 257        | 342    | 21.8           | 15.1          | 9.5           |  |  |  |  |
|                    |            |                              | 27                                      | 281        | 278        | 369    | 22.6           | 15.7          | 9.9           |  |  |  |  |
|                    |            |                              | 19                                      | 0.134      | 0.130      | 0.178  | 15.0           | 10.6          | 6.6           |  |  |  |  |
|                    |            |                              | 20                                      | 148        | 144        | 197    | 15.8           | 11.2          | 6.9           |  |  |  |  |
|                    |            |                              | 21                                      | 163        | 159        | 217    | 16.6           | 11.8          | 7.3           |  |  |  |  |
|                    |            |                              | 22                                      | 182        | 179        | 242    | 17.4           | 12.3          | 7.6           |  |  |  |  |
|                    |            |                              | 23                                      | 196        | 193        | 260    | 18.1           | 12.9          | 8.0           |  |  |  |  |
| 0.56               | II         | 56                           | 24                                      | 213        | 210        | 283    | 18.9           | 13.4          | 8.3           |  |  |  |  |
|                    |            |                              | 25                                      | 231        | 228        | 308    | 19.7           | 14.0          | 8.7           |  |  |  |  |
|                    |            |                              | 26                                      | 250        | 247        | 333    | 20.4           | 14.6          | 9.0           |  |  |  |  |
|                    |            |                              | 27                                      | 270        | 267        | 360    | 21.3           | 15.1          | 9.4           |  |  |  |  |
|                    |            |                              | 28                                      | 290        | 287        | 386    | 22.1           | 15.7          | 9.7           |  |  |  |  |
|                    |            |                              | 29                                      | 311        | 308        | 415    | 22.9           | 16.2          | 10.1          |  |  |  |  |
|                    |            |                              | 21                                      | 0.156      | 0.153      | 0.211  | 16.3           | 11.3          | 6.9           |  |  |  |  |
|                    |            |                              | 22                                      | 174        | 171        | 235    | 17.1           | 11.9          | 7.2           |  |  |  |  |
|                    |            |                              | 23                                      | 187        | 184        | 253    | 17.9           | 12.4          | 7.5           |  |  |  |  |
|                    |            |                              | 24                                      | 204        | 201        | 275    | 18.6           | 13.0          | 7.9           |  |  |  |  |
|                    |            |                              | 25                                      | 221        | 218        | 299    | 19.4           | 13.5          | 8.2           |  |  |  |  |
| 0.54               | I          | 59                           | 26                                      | 239        | 236        | 323    | 20.2           | 14.0          | 8.5           |  |  |  |  |
|                    |            |                              | 27                                      | 259        | 256        | 349    | 21.0           | 14.6          | 8.9           |  |  |  |  |
|                    |            |                              | 28                                      | 278        | 275        | 375    | 21.8           | 15.1          | 9.2           |  |  |  |  |
|                    |            |                              | 29                                      | 298        | 295        | 403    | 22.5           | 15.7          | 9.5           |  |  |  |  |
|                    |            |                              | 30                                      | 319        | 316        | 431    | 23.3           | 16.2          | 9.8           |  |  |  |  |
|                    |            |                              | 31                                      | 341        | 338        | 460    | 24.1           | 16.7          | 10.2          |  |  |  |  |
|                    |            |                              | 23                                      | 0.179      | 0.176      | 0.245  | 17.6           | 12.0          | 7.1           |  |  |  |  |
|                    |            |                              | 24                                      | 195        | 192        | 267    | 18.4           | 12.5          | 7.4           |  |  |  |  |
|                    |            |                              | 25                                      | 212        | 209        | 290    | 19.1           | 13.0          | 7.7           |  |  |  |  |
|                    |            |                              | 26                                      | 229        | 226        | 313    | 19.9           | 13.5          | 8.1           |  |  |  |  |
|                    |            |                              | 27                                      | 248        | 245        | 338    | 20.7           | 14.0          | 8.4           |  |  |  |  |
|                    |            |                              | 28                                      | 266        | 263        | 363    | 21.4           | 14.6          | 8.7           |  |  |  |  |
| 0.52               | I          | 61                           | 29                                      | 285        | 282        | 390    | 22.2           | 15.1          | 9.0           |  |  |  |  |
|                    |            |                              | 30                                      | 305        | 302        | 417    | 23.0           | 15.6          | 9.3           |  |  |  |  |
|                    |            |                              | 31                                      | 326        | 323        | 446    | 23.7           | 16.1          | 9.6           |  |  |  |  |
|                    |            |                              | 32                                      | 347        | 344        | 475    | 24.5           | 16.6          | 9.9           |  |  |  |  |
|                    |            |                              | 33                                      | 368        | 365        | 503    | 25.3           | 17.2          | 10.2          |  |  |  |  |
|                    |            |                              | 34                                      | 392        | 389        | 536    | 26.0           | 17.7          | 10.5          |  |  |  |  |
|                    |            |                              | 9                                       | 0.047      | 0.038      | 0.056  | 8.3            | 6.2           | 4.9           |  |  |  |  |
|                    |            |                              | 10                                      | 058        | 050        | 069    | 9.2            | 7.0           | 5.4           |  |  |  |  |
| 0.78               | V          | 32                           | 11                                      | 071        | 064        | 083    | 10.1           | 7.8           | 6.0           |  |  |  |  |
|                    |            |                              | 12                                      | 084        | 078        | 099    | 11.1           | 8.6           | 6.5           |  |  |  |  |
|                    |            |                              | 13                                      | 098        | 092        | 116    | 12.0           | 9.4           | 7.1           |  |  |  |  |
|                    |            |                              | 14                                      | 115        | 110        | 135    | 12.9           | 10.1          | 7.6           |  |  |  |  |
|                    |            |                              | 15                                      | 132        | 127        | 155    | 13.8           | 10.9          | 8.2           |  |  |  |  |
|                    |            |                              | 9                                       | 0.046      | 0.037      | 0.054  | 8.2            | 6.8           | 4.7           |  |  |  |  |
|                    |            |                              | 10                                      | 057        | 049        | 067    | 9.1            | 7.6           | 5.3           |  |  |  |  |
|                    |            |                              | 11                                      | 068        | 061        | 081    | 10.0           | 8.4           | 5.8           |  |  |  |  |
| 0.76               | V          | 34                           | 12                                      | 081        | 075        | 097    | 10.9           | 9.1           | 6.3           |  |  |  |  |
|                    |            |                              | 13                                      | 095        | 090        | 113    | 11.8           | 9.9           | 6.9           |  |  |  |  |
|                    |            |                              | 14                                      | 111        | 106        | 132    | 12.7           | 10.6          | 7.4           |  |  |  |  |
|                    |            |                              | 15                                      | 128        | 123        | 152    | 13.6           | 11.4          | 7.9           |  |  |  |  |
|                    |            |                              | 16                                      | 145        | 141        | 172    | 14.5           | 12.2          | 8.4           |  |  |  |  |
|                    |            |                              | 10                                      | 0.055      | 0.047      | 0.066  | 8.9            | 7.6           | 5.1           |  |  |  |  |
|                    |            |                              | 11                                      | 066        | 059        | 079    | 9.8            | 8.1           | 5.6           |  |  |  |  |
|                    |            |                              | 12                                      | 079        | 073        | 095    | 10.7           | 8.9           | 6.1           |  |  |  |  |
|                    |            |                              | 13                                      | 092        | 087        | 111    | 11.6           | 9.6           | 6.6           |  |  |  |  |
| 0.74               | V          | 36                           | 14                                      | 108        | 103        | 129    | 12.5           | 10.4          | 7.1           |  |  |  |  |
|                    |            |                              | 15                                      | 124        | 119        | 148    | 13.4           | 11.1          | 7.6           |  |  |  |  |
|                    |            |                              | 16                                      | 140        | 137        | 168    | 14.3           | 11.8          | 8.2           |  |  |  |  |
|                    |            |                              | 17                                      | 159        | 155        | 190    | 15.2           | 12.6          | 8.7           |  |  |  |  |
|                    |            |                              | 18                                      | 177        | 173        | 213    | 16.1           | 13.3          | 9.2           |  |  |  |  |
|                    |            |                              | 11                                      | 0.064      | 0.057      | 0.077  | 9.7            | 7.9           | 5.4           |  |  |  |  |
|                    |            |                              | 12                                      | 076        | 070        | 092    | 10.6           | 8.6           | 5.9           |  |  |  |  |
|                    |            |                              | 13                                      | 090        | 084        | 108    | 11.4           | 9.4           | 6.4           |  |  |  |  |
|                    |            |                              | 14                                      | 104        | 099        | 123    | 12.3           | 10.1          | 6.9           |  |  |  |  |
| 0.72               | IV         | 38                           | 15                                      | 120        | 115        | 144    | 13.2           | 10.8          | 7.4           |  |  |  |  |
|                    |            |                              | 16                                      | 136        | 132        | 164    | 14.1           | 11.5          | 7.9           |  |  |  |  |
|                    |            |                              | 17                                      | 154        | 150        | 185    | 15.0           | 12.2          | 8.4           |  |  |  |  |
|                    |            |                              | 18                                      | 172        | 168        | 207    | 15.8           | 13.0          | 8.9           |  |  |  |  |
|                    |            |                              | 19                                      | 192        | 188        | 231    | 16.7           | 13.7          | 9.3           |  |  |  |  |
|                    |            |                              | 11                                      | 0.062      | 0.055      | 0.075  | 9.5            | 7.7           | 5.2           |  |  |  |  |
|                    |            |                              | 12                                      | 074        | 068        | 090    | 10.4           | 8.4           | 5.7           |  |  |  |  |
|                    |            |                              | 13                                      | 087        | 082        | 105    | 11.3           | 9.1           | 6.2           |  |  |  |  |
|                    |            |                              | 14                                      | 100        | 095        | 123    | 12.2           | 9.8           | 6.6           |  |  |  |  |
|                    |            |                              | 15                                      | 115        | 110        | 141    | 13.0           | 10.5          | 7.1           |  |  |  |  |
| 0.70               | IV         | 40                           | 16                                      | 132        | 128        | 160    | 13.9           | 11.2          | 7.5           |  |  |  |  |
|                    |            |                              | 17                                      | 149        | 145        | 181    | 14.8           | 11.9          | 8.1           |  |  |  |  |
|                    |            |                              | 18                                      | 166        | 162        | 202    | 15.6           | 12.6          | 8.6           |  |  |  |  |
|                    |            |                              | 19                                      | 186        | 182        | 226    | 16.5           | 13.3          | 9.0           |  |  |  |  |
|                    |            |                              | 20                                      | 206        | 202        | 250    | 17.4           | 14.0          | 9.5           |  |  |  |  |
|                    |            |                              | 12                                      | 0.072      | 0.066      | 0.088  | 10.3           | 8.2           | 5.5           |  |  |  |  |
|                    |            |                              | 13                                      | 084        | 078        | 103    | 11.1           | 8.8           | 6.0           |  |  |  |  |
| 0.68               | IV         | 68                           | 14                                      | 097        | 092        | 120    | 12.0           | 9.5           | 6.4           |  |  |  |  |
|                    |            |                              | 15                                      | 112        | 107        | 138    | 12.8           | 10.2          | 6.9           |  |  |  |  |

Höhe 13 m.

Höhe 13 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |      |      | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |      |      |  |  |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|------|------|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|------|------|--|--|--|--|
|                    |            |                              |                                         | Schafte        | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |                    |            |                              |                                         | Schafte        | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |  |  |  |  |
|                    |            |                              |                                         |                |            |        |                |      |      |                    |            |                              |                                         |                |            |        |                |      |      |  |  |  |  |
|                    |            |                              |                                         |                |            |        |                |      |      |                    |            |                              |                                         |                |            |        |                |      |      |  |  |  |  |
|                    |            |                              | cm                                      | m <sup>3</sup> |            |        | cm             |      |      |                    |            |                              | cm                                      | m <sup>3</sup> |            |        | cm             |      |      |  |  |  |  |
|                    |            |                              |                                         |                |            |        | der Höhe       |      |      |                    |            |                              |                                         |                |            |        | der Höhe       |      |      |  |  |  |  |
| 0-68               | IV         | 42                           | 16                                      | 0-127          | 0-123      | 0-156  | 13-7           | 10-9 | 7-3  | 0-58               | II         | 52                           | 18                                      | 0-133          | 0-129      | 0-172  | 14-3           | 10-4 | 6-7  |  |  |  |  |
|                    |            |                              | 17                                      | 144            | 140        | 177    | 14-5           | 11-6 | 7-8  |                    |            |                              | 19                                      | 149            | 145        | 193    | 15-1           | 11-0 | 7-0  |  |  |  |  |
|                    |            |                              | 18                                      | 161            | 157        | 198    | 15-4           | 12-2 | 8-2  |                    |            |                              | 20                                      | 165            | 161        | 213    | 15-9           | 11-6 | 7-4  |  |  |  |  |
|                    |            |                              | 19                                      | 180            | 176        | 221    | 16-2           | 12-9 | 8-7  |                    |            |                              | 21                                      | 182            | 178        | 236    | 16-7           | 12-2 | 7-8  |  |  |  |  |
|                    |            |                              | 20                                      | 199            | 195        | 244    | 17-1           | 13-6 | 9-2  |                    |            |                              | 22                                      | 203            | 199        | 262    | 17-5           | 12-8 | 8-1  |  |  |  |  |
|                    |            |                              | 21                                      | 220            | 216        | 270    | 18-0           | 14-3 | 9-6  |                    |            |                              | 23                                      | 218            | 215        | 283    | 18-3           | 13-3 | 8-5  |  |  |  |  |
|                    |            |                              | 13                                      | 0-081          | 0-075      | 0-100  | 10-9           | 8-6  | 5-7  |                    |            |                              | 24                                      | 237            | 234        | 307    | 19-1           | 13-9 | 8-9  |  |  |  |  |
|                    |            |                              | 14                                      | 094            | 089        | 117    | 11-8           | 9-2  | 6-1  |                    |            |                              | 25                                      | 258            | 255        | 334    | 19-9           | 14-5 | 9-2  |  |  |  |  |
|                    |            |                              | 15                                      | 108            | 103        | 134    | 12-6           | 9-9  | 6-6  |                    |            |                              | 26                                      | 279            | 276        | 361    | 20-7           | 15-1 | 9-6  |  |  |  |  |
|                    |            |                              | 16                                      | 123            | 119        | 152    | 13-5           | 10-6 | 7-0  |                    |            |                              | 27                                      | 301            | 298        | 381    | 21-5           | 15-7 | 10-0 |  |  |  |  |
| 0-66               | III        | 44                           | 17                                      | 139            | 135        | 172    | 14-3           | 11-2 | 7-5  |                    |            |                              | 28                                      | 323            | 320        | 418    | 22-3           | 16-3 | 10-7 |  |  |  |  |
|                    |            |                              | 18                                      | 155            | 151        | 192    | 15-2           | 11-9 | 7-9  |                    |            |                              | 21                                      | 0-175          | 0-171      | 0-229  | 16-4           | 11-8 | 7-4  |  |  |  |  |
|                    |            |                              | 19                                      | 174            | 170        | 215    | 16-0           | 12-5 | 8-3  |                    |            |                              | 22                                      | 195            | 191        | 256    | 17-2           | 12-3 | 7-7  |  |  |  |  |
|                    |            |                              | 20                                      | 192            | 188        | 238    | 16-9           | 13-2 | 8-8  |                    |            |                              | 23                                      | 210            | 207        | 274    | 18-0           | 12-9 | 8-1  |  |  |  |  |
|                    |            |                              | 21                                      | 212            | 208        | 263    | 17-7           | 13-9 | 9-2  |                    |            |                              | 24                                      | 229            | 226        | 299    | 18-8           | 13-4 | 8-4  |  |  |  |  |
|                    |            |                              | 22                                      | 236            | 232        | 291    | 18-5           | 14-5 | 9-7  | 0-56               | II         | 54                           | 25                                      | 248            | 245        | 325    | 19-6           | 14-0 | 8-8  |  |  |  |  |
|                    |            |                              | 14                                      | 0-091          | 0-086      | 0-114  | 11-6           | 9-0  | 5-9  |                    |            |                              | 26                                      | 268            | 265        | 351    | 20-4           | 14-6 | 9-2  |  |  |  |  |
|                    |            |                              | 15                                      | 104            | 099        | 131    | 12-5           | 9-6  | 6-3  |                    |            |                              | 27                                      | 290            | 287        | 379    | 21-1           | 15-1 | 9-5  |  |  |  |  |
|                    |            |                              | 16                                      | 118            | 114        | 148    | 13-3           | 10-2 | 6-8  |                    |            |                              | 28                                      | 311            | 308        | 407    | 21-9           | 15-7 | 9-9  |  |  |  |  |
|                    |            |                              | 17                                      | 134            | 130        | 167    | 14-1           | 10-9 | 7-2  |                    |            |                              | 29                                      | 334            | 331        | 437    | 22-7           | 16-2 | 10-2 |  |  |  |  |
| 0-64               | III        | 46                           | 18                                      | 150            | 146        | 187    | 15-0           | 11-5 | 7-6  |                    |            |                              | 30                                      | 357            | 354        | 468    | 23-5           | 16-8 | 10-6 |  |  |  |  |
|                    |            |                              | 19                                      | 167            | 163        | 209    | 15-8           | 12-2 | 8-0  |                    |            |                              | 31                                      | 392            | 379        | 499    | 24-3           | 17-4 | 10-9 |  |  |  |  |
|                    |            |                              | 20                                      | 185            | 181        | 232    | 16-6           | 12-8 | 8-4  |                    |            |                              | 32                                      | 405            | 402        | 531    | 25-1           | 17-9 | 11-3 |  |  |  |  |
|                    |            |                              | 21                                      | 205            | 201        | 256    | 17-5           | 13-4 | 8-9  | 0-54               | I          | 57                           | 24                                      | 0-219          | 0-216      | 0-290  | 18-5           | 13-0 | 8-0  |  |  |  |  |
|                    |            |                              | 22                                      | 227            | 223        | 284    | 18-3           | 14-1 | 9-3  |                    |            |                              | 25                                      | 237            | 234        | 315    | 19-3           | 13-5 | 8-3  |  |  |  |  |
|                    |            |                              | 23                                      | 245            | 242        | 306    | 19-1           | 14-7 | 9-7  |                    |            |                              | 26                                      | 256            | 253        | 340    | 20-0           | 14-0 | 8-6  |  |  |  |  |
|                    |            |                              | 15                                      | 0-100          | 0-095      | 0-127  | 12-3           | 9-3  | 6-1  |                    |            |                              | 27                                      | 277            | 274        | 368    | 20-8           | 14-6 | 9-0  |  |  |  |  |
|                    |            |                              | 16                                      | 114            | 110        | 144    | 13-1           | 9-9  | 6-5  |                    |            |                              | 28                                      | 298            | 295        | 395    | 21-6           | 15-1 | 9-3  |  |  |  |  |
| 0-62               | III        | 48                           | 17                                      | 129            | 125        | 163    | 13-9           | 10-5 | 6-9  |                    |            |                              | 29                                      | 319            | 316        | 424    | 22-4           | 15-7 | 9-6  |  |  |  |  |
|                    |            |                              | 18                                      | 145            | 141        | 182    | 14-7           | 11-2 | 7-3  |                    |            |                              | 30                                      | 342            | 339        | 454    | 23-1           | 16-2 | 10-0 |  |  |  |  |
|                    |            |                              | 19                                      | 162            | 158        | 204    | 15-6           | 11-8 | 7-7  |                    |            |                              | 31                                      | 365            | 362        | 485    | 23-9           | 16-7 | 10-3 |  |  |  |  |
|                    |            |                              | 20                                      | 179            | 175        | 225    | 16-4           | 12-4 | 8-1  |                    |            |                              | 32                                      | 387            | 384        | 515    | 24-7           | 17-3 | 10-6 |  |  |  |  |
|                    |            |                              | 21                                      | 198            | 194        | 249    | 17-2           | 13-0 | 8-5  | 0-52               | I          | 59                           | 33                                      | 412            | 409        | 548    | 25-4           | 17-8 | 11-0 |  |  |  |  |
|                    |            |                              | 22                                      | 219            | 215        | 276    | 18-0           | 13-6 | 8-9  |                    |            |                              | 34                                      | 438            | 435        | 582    | 26-2           | 18-4 | 11-3 |  |  |  |  |
|                    |            |                              | 23                                      | 236            | 233        | 298    | 18-8           | 14-3 | 9-3  |                    |            |                              | 35                                      | 465            | 462        | 617    | 27-0           | 18-9 | 11-6 |  |  |  |  |
|                    |            |                              | 24                                      | 257            | 254        | 324    | 19-7           | 14-9 | 9-7  |                    |            |                              | 26                                      | 0-245          | 0-243      | 0-330  | 19-8           | 13-5 | 8-2  |  |  |  |  |
|                    |            |                              | 17                                      | 0-124          | 0-120      | 0-159  | 13-7           | 10-2 | 6-6  |                    |            |                              | 27                                      | 265            | 262        | 357    | 20-5           | 14-0 | 8-5  |  |  |  |  |
| 06-0               | II         | 50                           | 18                                      | 139            | 135        | 177    | 14-5           | 10-8 | 7-0  |                    |            |                              | 28                                      | 285            | 282        | 383    | 21-3           | 14-6 | 8-8  |  |  |  |  |
|                    |            |                              | 19                                      | 156            | 152        | 198    | 15-3           | 11-4 | 7-4  |                    |            |                              | 29                                      | 306            | 303        | 411    | 22-0           | 15-1 | 9-1  |  |  |  |  |
|                    |            |                              | 20                                      | 172            | 168        | 219    | 16-1           | 12-0 | 7-7  |                    |            |                              | 30                                      | 327            | 324        | 440    | 22-8           | 15-6 | 9-4  |  |  |  |  |
|                    |            |                              | 21                                      | 190            | 188        | 243    | 16-9           | 12-6 | 8-1  |                    |            |                              | 31                                      | 349            | 346        | 470    | 23-6           | 16-1 | 9-8  |  |  |  |  |
|                    |            |                              | 22                                      | 211            | 207        | 269    | 17-8           | 13-2 | 8-5  |                    |            |                              | 32                                      | 371            | 368        | 499    | 24-3           | 16-6 | 10-1 |  |  |  |  |
|                    |            |                              | 23                                      | 227            | 224        | 290    | 18-6           | 13-8 | 8-9  |                    |            |                              | 33                                      | 395            | 392        | 531    | 25-1           | 17-2 | 10-4 |  |  |  |  |
|                    |            |                              | 24                                      | 248            | 245        | 316    | 19-4           | 14-4 | 9-3  |                    |            |                              | 34                                      | 420            | 417        | 565    | 25-8           | 17-7 | 10-7 |  |  |  |  |
|                    |            |                              | 25                                      | 269            | 266        | 343    | 20-2           | 15-0 | 9-7  |                    |            |                              | 35                                      | 445            | 442        | 599    | 26-6           | 18-2 | 11-0 |  |  |  |  |
|                    |            |                              | 26                                      | 291            | 288        | 371    | 21-0           | 15-6 | 10-0 |                    |            |                              | 36                                      | 470            | 467        | 633    | 27-4           | 18-7 | 11-3 |  |  |  |  |
|                    |            |                              | 27                                      | 314            | 311        | 401    | 21-8           | 16-2 | 10-4 |                    |            |                              | 37                                      | 498            | 495        | 670    | 28-1           | 19-2 | 11-7 |  |  |  |  |

Höhe 14 m.

Höhe 14 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |  |  |
|--------------------|------------|------------------------------|----------------------------------------|------------|------------|--------|----------------|---------------|---------------|--|--|
|                    |            |                              |                                        | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |  |  |
|                    |            |                              |                                        |            |            |        |                |               |               |  |  |
|                    |            |                              | cm                                     | $m^3$      |            |        | cm             |               |               |  |  |
|                    |            |                              |                                        |            |            |        | der Höhe       |               |               |  |  |
|                    |            |                              |                                        |            |            |        | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |  |  |
|                    |            |                              |                                        |            |            |        | cm             |               |               |  |  |
| 0.78               | V          | 31                           | 9                                      | 0.051      | 0.042      | 0.059  | 8.2            | 7.0           | 4.9           |  |  |
|                    |            |                              | 10                                     | 0.063      | 0.055      | 0.073  | 9.1            | 7.8           | 5.5           |  |  |
|                    |            |                              | 11                                     | 0.076      | 0.069      | 0.088  | 10.0           | 8.6           | 6.6           |  |  |
|                    |            |                              | 12                                     | 0.090      | 0.084      | 0.105  | 11.0           | 9.4           | 7.1           |  |  |
|                    |            |                              | 13                                     | 0.106      | 0.100      | 0.123  | 11.9           | 10.1          | 7.7           |  |  |
|                    |            |                              | 14                                     | 0.123      | 0.118      | 0.143  | 12.8           | 10.9          | 8.2           |  |  |
|                    |            |                              | 15                                     | 0.142      | 0.137      | 0.164  | 13.7           | 11.7          | 8.8           |  |  |
| 0.76               | V          | 33                           | 10                                     | 0.061      | 0.053      | 0.071  | 9.0            | 7.6           | 5.3           |  |  |
|                    |            |                              | 11                                     | 0.074      | 0.067      | 0.086  | 9.9            | 8.4           | 5.8           |  |  |
|                    |            |                              | 12                                     | 0.087      | 0.081      | 0.102  | 10.8           | 9.1           | 6.4           |  |  |
|                    |            |                              | 13                                     | 0.103      | 0.097      | 0.121  | 11.7           | 9.9           | 6.9           |  |  |
|                    |            |                              | 14                                     | 0.119      | 0.114      | 0.140  | 12.6           | 10.6          | 7.4           |  |  |
|                    |            |                              | 15                                     | 0.137      | 0.132      | 0.161  | 13.5           | 11.4          | 7.9           |  |  |
|                    |            |                              | 16                                     | 0.155      | 0.150      | 0.182  | 14.4           | 12.2          | 8.5           |  |  |
| 0.74               | V          | 35                           | 11                                     | 0.071      | 0.064      | 0.084  | 9.8            | 8.1           | 5.6           |  |  |
|                    |            |                              | 12                                     | 0.085      | 0.079      | 0.100  | 10.7           | 8.9           | 6.1           |  |  |
|                    |            |                              | 13                                     | 0.100      | 0.094      | 0.118  | 11.6           | 9.6           | 6.7           |  |  |
|                    |            |                              | 14                                     | 0.116      | 0.111      | 0.137  | 12.5           | 10.4          | 7.2           |  |  |
|                    |            |                              | 15                                     | 0.133      | 0.128      | 0.157  | 13.4           | 11.1          | 7.7           |  |  |
|                    |            |                              | 16                                     | 0.151      | 0.146      | 0.178  | 14.3           | 11.8          | 8.2           |  |  |
|                    |            |                              | 17                                     | 0.170      | 0.166      | 0.202  | 15.2           | 12.6          | 8.7           |  |  |
| 0.72               | IV         | 37                           | 11                                     | 0.069      | 0.062      | 0.082  | 9.6            | 7.9           | 5.4           |  |  |
|                    |            |                              | 12                                     | 0.082      | 0.076      | 0.098  | 10.5           | 8.6           | 5.9           |  |  |
|                    |            |                              | 13                                     | 0.096      | 0.090      | 0.115  | 11.4           | 9.4           | 6.4           |  |  |
|                    |            |                              | 14                                     | 0.112      | 0.107      | 0.133  | 12.3           | 10.1          | 6.9           |  |  |
|                    |            |                              | 15                                     | 0.128      | 0.123      | 0.153  | 13.2           | 10.8          | 7.4           |  |  |
|                    |            |                              | 16                                     | 0.146      | 0.141      | 0.174  | 14.1           | 11.5          | 7.9           |  |  |
|                    |            |                              | 17                                     | 0.165      | 0.161      | 0.196  | 14.9           | 12.2          | 8.4           |  |  |
| 0.70               | IV         | 39                           | 12                                     | 0.079      | 0.073      | 0.095  | 10.4           | 8.4           | 5.7           |  |  |
|                    |            |                              | 13                                     | 0.093      | 0.087      | 0.112  | 11.2           | 9.1           | 6.2           |  |  |
|                    |            |                              | 14                                     | 0.108      | 0.103      | 0.130  | 12.0           | 9.8           | 6.7           |  |  |
|                    |            |                              | 15                                     | 0.124      | 0.119      | 0.149  | 13.0           | 10.5          | 7.2           |  |  |
|                    |            |                              | 16                                     | 0.141      | 0.136      | 0.169  | 13.8           | 11.2          | 7.6           |  |  |
|                    |            |                              | 17                                     | 0.160      | 0.156      | 0.192  | 14.7           | 11.9          | 8.1           |  |  |
|                    |            |                              | 18                                     | 0.179      | 0.175      | 0.215  | 15.6           | 12.6          | 8.6           |  |  |
| 0.68               | IV         | 41                           | 19                                     | 0.200      | 0.196      | 0.240  | 16.4           | 13.3          | 9.1           |  |  |
|                    |            |                              | 20                                     | 0.220      | 0.216      | 0.265  | 17.3           | 14.0          | 9.6           |  |  |
|                    |            |                              | 13                                     | 0.090      | 0.084      | 0.109  | 11.1           | 8.8           | 6.0           |  |  |
|                    |            |                              | 14                                     | 0.105      | 0.100      | 0.127  | 11.9           | 9.5           | 6.5           |  |  |
|                    |            |                              | 15                                     | 0.120      | 0.115      | 0.146  | 12.8           | 10.2          | 6.9           |  |  |
|                    |            |                              | 16                                     | 0.136      | 0.131      | 0.165  | 13.6           | 10.9          | 7.4           |  |  |
|                    |            |                              |                                        |            |            |        |                |               |               |  |  |
| 0.68               | IV         | 41                           | 17                                     | 0.154      | 0.150      | 0.187  | 14.5           | 11.6          | 7.8           |  |  |
|                    |            |                              | 18                                     | 0.173      | 0.169      | 0.209  | 15.3           | 12.2          | 8.3           |  |  |
|                    |            |                              | 19                                     | 0.193      | 0.189      | 0.234  | 16.1           | 12.9          | 8.8           |  |  |
|                    |            |                              | 20                                     | 0.213      | 0.209      | 0.259  | 17.0           | 13.6          | 9.2           |  |  |
|                    |            |                              | 21                                     | 0.235      | 0.231      | 0.284  | 17.9           | 14.3          | 9.7           |  |  |
|                    |            |                              | 22                                     | 0.262      | 0.258      | 0.318  | 18.7           | 15.0          | 10.1          |  |  |
|                    |            |                              |                                        |            |            |        |                |               |               |  |  |
| 0.66               | III        | 43                           | 15                                     | 0.116      | 0.111      | 0.142  | 12.6           | 9.9           | 6.6           |  |  |
|                    |            |                              | 16                                     | 0.131      | 0.126      | 0.161  | 13.4           | 10.6          | 7.1           |  |  |
|                    |            |                              | 17                                     | 0.149      | 0.145      | 0.182  | 14.3           | 11.2          | 7.5           |  |  |
|                    |            |                              | 18                                     | 0.167      | 0.163      | 0.204  | 15.1           | 11.9          | 8.0           |  |  |
|                    |            |                              | 19                                     | 0.186      | 0.182      | 0.228  | 16.0           | 12.5          | 8.4           |  |  |
|                    |            |                              | 20                                     | 0.205      | 0.201      | 0.251  | 16.8           | 13.2          | 8.8           |  |  |
|                    |            |                              | 21                                     | 0.226      | 0.222      | 0.277  | 17.6           | 13.9          | 9.3           |  |  |
| 0.64               | III        | 45                           | 22                                     | 0.252      | 0.248      | 0.309  | 18.5           | 14.5          | 9.7           |  |  |
|                    |            |                              | 23                                     | 0.272      | 0.268      | 0.332  | 19.3           | 15.2          | 10.2          |  |  |
|                    |            |                              | 24                                     | 0.296      | 0.292      | 0.362  | 20.2           | 15.8          | 10.6          |  |  |
|                    |            |                              | 15                                     | 0.112      | 0.107      | 0.138  | 12.4           | 9.6           | 6.4           |  |  |
|                    |            |                              | 16                                     | 0.127      | 0.122      | 0.156  | 13.2           | 10.2          | 6.8           |  |  |
|                    |            |                              | 17                                     | 0.143      | 0.139      | 0.177  | 14.1           | 10.9          | 7.2           |  |  |
|                    |            |                              | 18                                     | 0.160      | 0.156      | 0.198  | 14.9           | 11.5          | 7.7           |  |  |
| 0.62               | III        | 47                           | 19                                     | 0.179      | 0.175      | 0.222  | 15.7           | 12.2          | 8.1           |  |  |
|                    |            |                              | 20                                     | 0.198      | 0.194      | 0.245  | 16.5           | 12.8          | 8.5           |  |  |
|                    |            |                              | 21                                     | 0.218      | 0.214      | 0.273  | 17.4           | 13.4          | 8.9           |  |  |
|                    |            |                              | 22                                     | 0.243      | 0.239      | 0.300  | 18.2           | 14.1          | 9.4           |  |  |
|                    |            |                              | 23                                     | 0.262      | 0.259      | 0.323  | 19.0           | 14.7          | 9.8           |  |  |
|                    |            |                              | 24                                     | 0.285      | 0.283      | 0.352  | 19.8           | 15.4          | 10.2          |  |  |
|                    |            |                              | 25                                     | 0.310      | 0.307      | 0.383  | 20.7           | 16.0          | 10.7          |  |  |
| 0.60               | II         | 49                           | 16                                     | 0.122      | 0.117      | 0.152  | 13.0           | 9.9           | 6.5           |  |  |
|                    |            |                              | 17                                     | 0.138      | 0.134      | 0.172  | 13.8           | 10.5          | 6.9           |  |  |
|                    |            |                              | 18                                     | 0.155      | 0.151      | 0.192  | 14.7           | 11.2          | 7.3           |  |  |
|                    |            |                              | 19                                     | 0.173      | 0.169      | 0.215  | 15.5           | 11.8          | 7.8           |  |  |
|                    |            |                              | 20                                     | 0.191      | 0.187      | 0.238  | 16.3           | 12.4          | 8.2           |  |  |
|                    |            |                              | 21                                     | 0.210      | 0.206      | 0.262  | 17.1           | 13.0          | 8.6           |  |  |
|                    |            |                              | 22                                     | 0.235      | 0.231      | 0.292  | 17.9           | 13.6          | 9.0           |  |  |
| 0.60               | II         | 49                           | 23                                     | 0.253      | 0.250      | 0.314  | 18.7           | 14.3          | 9.4           |  |  |
|                    |            |                              | 24                                     | 0.275      | 0.272      | 0.342  | 19.5           | 14.9          | 9.8           |  |  |
|                    |            |                              | 25                                     | 0.299      | 0.296      | 0.372  | 20.4           | 15.5          | 10.2          |  |  |
|                    |            |                              | 17                                     | 0.133      | 0.129      | 0.167  | 13.6           | 10.2          | 6.6           |  |  |
|                    |            |                              | 18                                     | 0.149      | 0.145      | 0.188  | 14.4           | 10.8          | 7.0           |  |  |
|                    |            |                              | 19                                     | 0.166      | 0.162      | 0.209  | 15.2           | 11.4          | 7.4           |  |  |
|                    |            |                              | 20                                     | 0.184      | 0.180      | 0.231  | 16.0           | 12.0          | 7.8           |  |  |
| 0.60               | II         | 49                           | 21                                     | 0.202      | 0.198      | 0.255  | 16.8           | 12.6          | 8.2           |  |  |
|                    |            |                              | 22                                     | 0.226      | 0.224      | 0.284  | 17.6           | 13.2          | 8.6           |  |  |
|                    |            |                              | 23                                     | 0.239      | 0.235      | 0.306  | 18.4           | 13.8          | 9.0           |  |  |
|                    |            |                              | 24                                     | 0.264      | 0.261      | 0.333  | 19.2           | 14.4          | 9.4           |  |  |
|                    |            |                              | 25                                     | 0.287      | 0.284      | 0.362  | 20.0           | 15.0          | 9.8           |  |  |
|                    |            |                              | 26                                     | 0.310      | 0.307      | 0.392  | 20.9           | 15.6          | 10.2          |  |  |
|                    |            |                              |                                        |            |            |        |                |               |               |  |  |

Höhe 14 m.

Höhe 15 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               | Formquotient $q_1$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |     |     |          |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|-----|-----|----------|--|--|
|                    |            |                              |                                         | Schafes    | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |                    |            |                              |                                         | Schafes    | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |     |     |          |  |  |
|                    |            |                              |                                         |            |            |        |                |               |               |                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |     |     | der Höhe |  |  |
|                    |            |                              |                                         |            |            |        |                |               |               |                    |            |                              |                                         |            |            |        |                |               |               | cm       |     |     | cm       |  |  |
| 0.58               | II         | 51                           | 20                                      | 0.176      | 0.172      | 0.225  | 15.8           | 11.6          | 7.5           | 0.78               | V          | 30                           | 10                                      | 0.067      | 0.059      | 0.077  | 9.1            | 7.8           | 5.5           |          |     |     |          |  |  |
|                    |            |                              | 21                                      | 194        | 190        | 248    | 16.6           | 12.2          | 7.8           |                    |            |                              | 11                                      | 081        | 073        | 093    | 10.0           | 8.6           | 6.0           |          |     |     |          |  |  |
|                    |            |                              | 22                                      | 217        | 213        | 276    | 17.4           | 12.8          | 8.2           |                    |            |                              | 12                                      | 096        | 089        | 111    | 10.9           | 9.4           | 6.6           |          |     |     |          |  |  |
|                    |            |                              | 23                                      | 233        | 230        | 297    | 18.2           | 13.3          | 8.6           |                    |            |                              | 13                                      | 113        | 107        | 130    | 11.9           | 10.1          | 7.1           |          |     |     |          |  |  |
|                    |            |                              | 24                                      | 254        | 251        | 324    | 19.0           | 13.9          | 9.0           |                    |            |                              | 14                                      | 131        | 125        | 151    | 12.8           | 10.9          | 7.7           |          |     |     |          |  |  |
|                    |            |                              | 25                                      | 275        | 272        | 352    | 19.7           | 14.5          | 9.4           |                    |            |                              | 15                                      | 150        | 145        | 173    | 13.7           | 11.7          | 8.2           |          |     |     |          |  |  |
|                    |            |                              | 26                                      | 298        | 295        | 380    | 20.5           | 15.1          | 9.7           |                    |            |                              | 16                                      | 171        | 166        | 197    | 14.6           | 12.5          | 8.8           |          |     |     |          |  |  |
|                    |            |                              | 27                                      | 322        | 319        | 411    | 21.3           | 15.7          | 10.0          |                    |            |                              | 17                                      | 192        | 187        | 222    | 15.5           | 13.3          | 9.3           |          |     |     |          |  |  |
|                    |            |                              | 28                                      | 346        | 343        | 441    | 22.1           | 16.2          | 10.4          |                    |            |                              | 0.76                                    | V          | 32         | 11     | 0.078          | 0.070         | 0.091         | 9.9      | 8.4 | 5.9 |          |  |  |
|                    |            |                              | 29                                      | 371        | 368        | 474    | 22.9           | 16.8          | 10.8          |                    |            |                              |                                         |            |            | 12     | 093            | 086           | 108           | 10.8     | 9.1 | 6.4 |          |  |  |
| 0.56               | II         | 53                           | 30                                      | 396        | 393        | 507    | 23.7           | 17.4          | 11.2          | 0.74               | V          | 34                           | 13                                      | 110        | 104        | 127    | 11.7           | 9.9           | 6.9           |          |     |     |          |  |  |
|                    |            |                              | 23                                      | 0.224      | 0.224      | 0.289  | 17.9           | 12.9          | 8.2           |                    |            |                              | 14                                      | 127        | 121        | 148    | 12.6           | 10.6          | 7.5           |          |     |     |          |  |  |
|                    |            |                              | 24                                      | 244        | 240        | 315    | 18.7           | 13.4          | 8.5           |                    |            |                              | 15                                      | 146        | 141        | 170    | 13.5           | 11.4          | 8.0           |          |     |     |          |  |  |
|                    |            |                              | 25                                      | 264        | 261        | 341    | 19.5           | 14.0          | 8.9           |                    |            |                              | 16                                      | 166        | 161        | 192    | 14.4           | 12.2          | 8.5           |          |     |     |          |  |  |
|                    |            |                              | 26                                      | 286        | 283        | 369    | 20.2           | 14.6          | 9.3           |                    |            |                              | 17                                      | 187        | 181        | 217    | 15.3           | 12.9          | 9.1           |          |     |     |          |  |  |
|                    |            |                              | 27                                      | 309        | 306        | 398    | 21.0           | 15.1          | 9.6           |                    |            |                              | 18                                      | 210        | 206        | 244    | 16.2           | 13.7          | 9.6           |          |     |     |          |  |  |
|                    |            |                              | 28                                      | 332        | 329        | 428    | 21.8           | 15.7          | 10.0          |                    |            |                              | 12                                      | 0.090      | 0.083      | 0.106  | 10.6           | 8.9           | 6.2           |          |     |     |          |  |  |
|                    |            |                              | 29                                      | 356        | 353        | 460    | 22.6           | 16.2          | 10.3          |                    |            |                              | 13                                      | 106        | 100        | 124    | 11.5           | 9.6           | 6.7           |          |     |     |          |  |  |
|                    |            |                              | 30                                      | 381        | 378        | 492    | 23.3           | 16.8          | 10.7          |                    |            |                              | 14                                      | 123        | 117        | 144    | 12.4           | 10.4          | 7.2           |          |     |     |          |  |  |
|                    |            |                              | 31                                      | 408        | 405        | 528    | 24.1           | 17.4          | 11.0          |                    |            |                              | 15                                      | 141        | 136        | 166    | 13.3           | 11.1          | 7.7           |          |     |     |          |  |  |
| 0.54               | I          | 56                           | 32                                      | 435        | 432        | 563    | 24.9           | 17.9          | 11.4          | 0.72               | IV         | 36                           | 16                                      | 161        | 156        | 188    | 14.2           | 11.8          | 8.2           |          |     |     |          |  |  |
|                    |            |                              | 33                                      | 462        | 459        | 598    | 25.7           | 18.5          | 11.7          |                    |            |                              | 17                                      | 181        | 176        | 212    | 15.1           | 12.6          | 8.8           |          |     |     |          |  |  |
|                    |            |                              | 34                                      | 488        | 485        | 632    | 26.5           | 19.0          | 12.1          |                    |            |                              | 18                                      | 203        | 198        | 238    | 15.9           | 13.3          | 9.3           |          |     |     |          |  |  |
|                    |            |                              | 26                                      | 0.274      | 0.270      | 0.359  | 19.9           | 14.0          | 8.8           |                    |            |                              | 19                                      | 227        | 223        | 266    | 16.8           | 14.1          | 9.8           |          |     |     |          |  |  |
|                    |            |                              | 27                                      | 296        | 293        | 387    | 20.7           | 14.6          | 9.1           |                    |            |                              | 20                                      | 252        | 248        | 294    | 17.7           | 14.8          | 10.3          |          |     |     |          |  |  |
|                    |            |                              | 28                                      | 318        | 315        | 416    | 21.4           | 15.1          | 9.4           |                    |            |                              | 13                                      | 0.103      | 0.097      | 0.121  | 11.3           | 9.4           | 6.5           |          |     |     |          |  |  |
|                    |            |                              | 29                                      | 341        | 338        | 447    | 22.2           | 15.7          | 9.8           |                    |            |                              | 14                                      | 119        | 113        | 140    | 12.2           | 10.1          | 7.0           |          |     |     |          |  |  |
|                    |            |                              | 30                                      | 365        | 362        | 478    | 23.0           | 16.2          | 10.1          |                    |            |                              | 15                                      | 137        | 132        | 161    | 13.1           | 10.8          | 7.5           |          |     |     |          |  |  |
|                    |            |                              | 31                                      | 391        | 388        | 512    | 23.7           | 16.7          | 10.4          |                    |            |                              | 16                                      | 155        | 150        | 183    | 14.0           | 11.5          | 8.0           |          |     |     |          |  |  |
|                    |            |                              | 32                                      | 417        | 414        | 546    | 24.5           | 17.3          | 10.8          |                    |            |                              | 17                                      | 175        | 170        | 206    | 14.8           | 12.2          | 8.4           |          |     |     |          |  |  |
| 0.52               | I          | 57                           | 33                                      | 443        | 440        | 580    | 25.3           | 17.8          | 11.1          | 0.70               | IV         | 38                           | 18                                      | 196        | 191        | 231    | 15.7           | 13.0          | 8.9           |          |     |     |          |  |  |
|                    |            |                              | 34                                      | 469        | 466        | 613    | 26.0           | 18.4          | 11.5          |                    |            |                              | 19                                      | 220        | 216        | 259    | 16.6           | 13.7          | 9.4           |          |     |     |          |  |  |
|                    |            |                              | 35                                      | 498        | 495        | 652    | 26.8           | 18.9          | 11.8          |                    |            |                              | 20                                      | 243        | 239        | 286    | 17.5           | 14.4          | 9.9           |          |     |     |          |  |  |
|                    |            |                              | 36                                      | 524        | 521        | 686    | 27.6           | 19.4          | 12.1          |                    |            |                              | 21                                      | 268        | 264        | 315    | 18.3           | 15.1          | 10.4          |          |     |     |          |  |  |
|                    |            |                              | 37                                      | 553        | 550        | 724    | 28.3           | 20.0          | 12.4          |                    |            |                              | 13                                      | 0.099      | 0.093      | 0.118  | 11.2           | 9.1           | 6.2           |          |     |     |          |  |  |
|                    |            |                              | 29                                      | 0.326      | 0.323      | 0.433  | 21.9           | 15.1          | 9.3           |                    |            |                              | 14                                      | 115        | 109        | 137    | 12.1           | 9.8           | 6.7           |          |     |     |          |  |  |
|                    |            |                              | 30                                      | 349        | 346        | 463    | 22.6           | 15.6          | 9.7           |                    |            |                              | 15                                      | 132        | 127        | 157    | 12.9           | 10.5          | 7.2           |          |     |     |          |  |  |
|                    |            |                              | 31                                      | 374        | 371        | 496    | 23.4           | 16.1          | 10.0          |                    |            |                              | 16                                      | 150        | 145        | 178    | 13.8           | 11.2          | 7.7           |          |     |     |          |  |  |
|                    |            |                              | 32                                      | 399        | 396        | 529    | 24.2           | 16.6          | 10.3          |                    |            |                              | 17                                      | 169        | 164        | 201    | 14.6           | 11.9          | 8.1           |          |     |     |          |  |  |
|                    |            |                              | 33                                      | 424        | 421        | 562    | 24.9           | 17.2          | 10.6          |                    |            |                              | 18                                      | 190        | 185        | 226    | 15.5           | 12.6          | 8.6           |          |     |     |          |  |  |
| 0.68               | IV         | 40                           | 34                                      | 449        | 446        | 594    | 25.7           | 17.7          | 10.9          | 19                 | 212        | 208                          | 253                                     | 16.4       | 13.3       | 9.1    |                |               |               |          |     |     |          |  |  |
|                    |            |                              | 35                                      | 477        | 474        | 632    | 26.4           | 18.2          | 11.2          | 20                 | 235        | 231                          | 279                                     | 17.2       | 14.0       | 9.6    |                |               |               |          |     |     |          |  |  |
|                    |            |                              | 36                                      | 501        | 498        | 665    | 27.2           | 18.7          | 11.6          | 21                 | 259        | 255                          | 308                                     | 18.1       | 14.7       | 10.1   |                |               |               |          |     |     |          |  |  |
|                    |            |                              | 37                                      | 529        | 526        | 702    | 27.9           | 19.2          | 11.9          | 22                 | 289        | 285                          | 343                                     | 18.9       | 15.4       | 10.5   |                |               |               |          |     |     |          |  |  |
|                    |            |                              | 38                                      | 558        | 555        | 739    | 28.7           | 19.8          | 12.2          | 14                 | 0.111      | 0.105                        | 0.133                                   | 11.9       | 9.5        | 6.5    |                |               |               |          |     |     |          |  |  |
|                    |            |                              | 39                                      | 589        | 586        | 782    | 29.4           | 20.3          | 12.6          | 15                 | 128        | 122                          | 153                                     | 12.8       | 10.2       | 7.0    |                |               |               |          |     |     |          |  |  |
|                    |            |                              | 40                                      | 621        | 618        | 824    | 30.2           | 20.8          | 12.9          | 16                 | 145        | 140                          | 174                                     | 13.6       | 10.9       | 7.4    |                |               |               |          |     |     |          |  |  |



Höhe 16 m.

Höhe 16 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|-----------|--------|----------------|---------------|---------------|
|                    |                |                              |                                         | Schafftes  | Derbolzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |
|                    |                |                              |                                         |            |           |        |                |               |               |
|                    |                |                              |                                         |            |           |        |                |               |               |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |           |        |                |               |               |
| der Höhe           |                |                              |                                         |            |           |        |                |               |               |
| 0·78               | V              | 29                           | 11                                      | 0·086      | 0·078     | 0·098  | 10·0           | 8·6           | 6·1           |
|                    |                |                              | 12                                      | 103        | 096       | 117    | 10·9           | 9·4           | 6·6           |
|                    |                |                              | 13                                      | 120        | 113       | 137    | 11·8           | 10·1          | 7·2           |
|                    |                |                              | 14                                      | 139        | 133       | 159    | 12·7           | 10·9          | 7·7           |
|                    |                |                              | 15                                      | 160        | 154       | 183    | 13·6           | 11·7          | 8·3           |
|                    |                |                              | 16                                      | 182        | 177       | 208    | 14·5           | 12·5          | 8·8           |
|                    |                |                              | 17                                      | 205        | 200       | 234    | 15·5           | 13·3          | 9·4           |
|                    |                |                              | 18                                      | 229        | 224       | 262    | 16·4           | 14·0          | 9·9           |
| 0·76               | V              | 32                           | 12                                      | 0·099      | 0·092     | 0·114  | 10·8           | 9·1           | 6·4           |
|                    |                |                              | 13                                      | 117        | 110       | 135    | 11·6           | 9·9           | 7·0           |
|                    |                |                              | 14                                      | 135        | 129       | 155    | 12·5           | 10·6          | 7·5           |
|                    |                |                              | 15                                      | 155        | 149       | 179    | 13·4           | 11·4          | 8·0           |
|                    |                |                              | 16                                      | 177        | 172       | 204    | 14·3           | 12·2          | 8·6           |
|                    |                |                              | 17                                      | 199        | 194       | 229    | 15·2           | 12·9          | 9·1           |
|                    |                |                              | 18                                      | 223        | 218       | 256    | 16·1           | 13·7          | 9·6           |
|                    |                |                              | 19                                      | 249        | 245       | 287    | 17·0           | 14·4          | 10·2          |
| 0·74               | V              | 33                           | 13                                      | 0·113      | 0·106     | 0·131  | 11·5           | 9·6           | 6·7           |
|                    |                |                              | 14                                      | 131        | 125       | 152    | 12·4           | 10·4          | 7·2           |
|                    |                |                              | 15                                      | 150        | 144       | 175    | 13·3           | 11·1          | 7·8           |
|                    |                |                              | 16                                      | 171        | 166       | 199    | 14·1           | 11·8          | 8·3           |
|                    |                |                              | 17                                      | 193        | 188       | 224    | 15·0           | 12·6          | 8·8           |
|                    |                |                              | 18                                      | 216        | 211       | 250    | 15·9           | 13·3          | 9·3           |
|                    |                |                              | 19                                      | 241        | 237       | 280    | 16·8           | 14·1          | 9·8           |
|                    |                |                              | 20                                      | 267        | 263       | 310    | 17·6           | 14·8          | 10·3          |
| 0·72               | V              | 35                           | 21                                      | 295        | 291       | 342    | 18·5           | 15·5          | 10·9          |
|                    |                |                              | 14                                      | 0·126      | 0·120     | 0·148  | 12·2           | 10·1          | 7·0           |
|                    |                |                              | 15                                      | 145        | 139       | 169    | 13·1           | 10·8          | 7·5           |
|                    |                |                              | 16                                      | 166        | 161       | 193    | 13·9           | 11·5          | 8·0           |
|                    |                |                              | 17                                      | 186        | 181       | 218    | 14·8           | 12·2          | 8·5           |
|                    |                |                              | 18                                      | 209        | 204       | 244    | 15·7           | 13·0          | 9·0           |
|                    |                |                              | 19                                      | 233        | 229       | 272    | 16·5           | 13·7          | 9·5           |
|                    |                |                              | 20                                      | 258        | 254       | 301    | 17·4           | 14·4          | 10·0          |
| 0·70               | IV             | 37                           | 21                                      | 285        | 281       | 333    | 18·3           | 15·1          | 10·5          |
|                    |                |                              | 22                                      | 318        | 314       | 371    | 19·2           | 15·8          | 11·0          |
|                    |                |                              | 15                                      | 0·141      | 0·135     | 0·165  | 12·9           | 10·5          | 7·2           |
|                    |                |                              | 16                                      | 160        | 155       | 188    | 13·7           | 11·2          | 7·7           |
|                    |                |                              | 17                                      | 180        | 175       | 212    | 14·6           | 11·9          | 8·2           |
|                    |                |                              | 18                                      | 202        | 197       | 237    | 15·4           | 12·6          | 8·7           |
|                    |                |                              | 19                                      | 226        | 222       | 265    | 16·3           | 13·3          | 9·2           |
|                    |                |                              | 20                                      | 249        | 245       | 294    | 17·2           | 14·0          | 9·7           |
| 0·68               | IV             | 39                           | 21                                      | 276        | 272       | 325    | 18·0           | 14·7          | 10·1          |
|                    |                |                              | 22                                      | 307        | 303       | 361    | 18·9           | 15·4          | 10·6          |
|                    |                |                              | 23                                      | 330        | 326       | 388    | 19·7           | 16·1          | 11·1          |
|                    |                |                              | 24                                      | 359        | 355       | 423    | 20·6           | 16·8          | 11·6          |
|                    |                |                              | 16                                      | 0·155      | 0·150     | 0·183  | 13·5           | 10·9          | 7·5           |
|                    |                |                              | 17                                      | 174        | 169       | 207    | 14·4           | 11·6          | 7·9           |
|                    |                |                              | 18                                      | 195        | 190       | 231    | 15·2           | 12·2          | 8·4           |
|                    |                |                              |                                         |            |           |        |                |               |               |
| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               |
|                    |                |                              |                                         | Schafftes  | Derbolzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |
|                    |                |                              |                                         |            |           |        |                |               |               |
|                    |                |                              |                                         |            |           |        |                |               |               |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |           |        |                |               |               |
| der Höhe           |                |                              |                                         |            |           |        |                |               |               |
| 0·68               | IV             | 39                           | 19                                      | 0·218      | 0·214     | 0·259  | 16·1           | 12·9          | 8·9           |
|                    |                |                              | 20                                      | 240        | 236       | 286    | 16·9           | 13·6          | 9·3           |
|                    |                |                              | 21                                      | 266        | 262       | 316    | 17·7           | 14·3          | 9·8           |
|                    |                |                              | 22                                      | 297        | 293       | 352    | 18·6           | 15·0          | 10·3          |
|                    |                |                              | 23                                      | 318        | 314       | 378    | 19·4           | 15·6          | 10·7          |
|                    |                |                              | 24                                      | 347        | 343       | 412    | 20·3           | 16·3          | 11·2          |
|                    |                |                              | 25                                      | 377        | 374       | 448    | 21·1           | 17·0          | 11·6          |
|                    |                |                              |                                         |            |           |        |                |               |               |
| 0·66               | IV             | 41                           | 17                                      | 0·168      | 0·163     | 0·201  | 14·1           | 11·2          | 7·6           |
|                    |                |                              | 18                                      | 188        | 183       | 225    | 15·0           | 11·9          | 8·0           |
|                    |                |                              | 19                                      | 210        | 206       | 251    | 15·8           | 12·5          | 8·5           |
|                    |                |                              | 20                                      | 232        | 228       | 278    | 16·6           | 13·2          | 8·9           |
|                    |                |                              | 21                                      | 257        | 253       | 307    | 17·5           | 13·9          | 9·4           |
|                    |                |                              | 22                                      | 286        | 282       | 342    | 18·3           | 14·5          | 9·8           |
|                    |                |                              | 23                                      | 307        | 303       | 368    | 19·2           | 15·2          | 10·3          |
|                    |                |                              | 24                                      | 335        | 331       | 400    | 20·0           | 15·8          | 10·7          |
| 0·64               | III            | 43                           | 25                                      | 364        | 361       | 435    | 20·8           | 16·5          | 11·2          |
|                    |                |                              | 26                                      | 393        | 390       | 470    | 21·6           | 17·2          | 11·6          |
|                    |                |                              | 19                                      | 0·202      | 0·198     | 0·255  | 15·6           | 12·2          | 8·1           |
|                    |                |                              | 20                                      | 224        | 220       | 270    | 16·4           | 12·8          | 8·6           |
|                    |                |                              | 21                                      | 247        | 243       | 299    | 17·2           | 13·4          | 9·1           |
|                    |                |                              | 22                                      | 276        | 272       | 333    | 18·0           | 14·1          | 9·5           |
|                    |                |                              | 23                                      | 296        | 292       | 358    | 18·9           | 14·7          | 9·9           |
|                    |                |                              | 24                                      | 322        | 318       | 390    | 19·7           | 15·4          | 10·3          |
| 0·62               | III            | 45                           | 25                                      | 350        | 347       | 423    | 20·5           | 16·0          | 10·8          |
|                    |                |                              | 26                                      | 379        | 376       | 458    | 21·3           | 16·6          | 11·2          |
|                    |                |                              | 27                                      | 409        | 406       | 494    | 22·1           | 17·3          | 11·6          |
|                    |                |                              | 28                                      | 440        | 437       | 531    | 23·0           | 17·9          | 12·1          |
|                    |                |                              | 20                                      | 0·215      | 0·211     | 0·262  | 16·1           | 12·4          | 8·3           |
|                    |                |                              | 21                                      | 238        | 234       | 290    | 16·9           | 13·0          | 8·7           |
|                    |                |                              | 22                                      | 266        | 262       | 323    | 17·8           | 13·6          | 9·1           |
|                    |                |                              | 23                                      | 286        | 282       | 347    | 18·6           | 14·3          | 9·5           |
| 0·60               | III            | 47                           | 24                                      | 311        | 307       | 383    | 19·4           | 14·9          | 9·9           |
|                    |                |                              | 25                                      | 338        | 335       | 411    | 20·2           | 15·5          | 10·3          |
|                    |                |                              | 26                                      | 365        | 362       | 444    | 21·0           | 16·1          | 10·8          |
|                    |                |                              | 27                                      | 394        | 391       | 479    | 21·8           | 16·7          | 11·2          |
|                    |                |                              | 28                                      | 423        | 420       | 515    | 22·6           | 17·4          | 11·6          |
|                    |                |                              | 29                                      | 456        | 453       | 554    | 23·4           | 18·0          | 12·0          |
|                    |                |                              | 23                                      | 0·274      | 0·270     | 0·337  | 18·3           | 13·8          | 9·1           |
|                    |                |                              | 24                                      | 298        | 294       | 367    | 19·1           | 14·4          | 9·5           |
| 0·60               | III            | 47                           | 25                                      | 325        | 322       | 399    | 19·9           | 15·0          | 9·9           |
|                    |                |                              | 26                                      | 351        | 347       | 431    | 20·7           | 15·6          | 10·3          |
|                    |                |                              | 27                                      | 379        | 376       | 466    | 21·5           | 16·2          | 10·7          |
|                    |                |                              | 28                                      | 407        | 404       | 500    | 22·3           | 16·8          | 11·1          |
|                    |                |                              | 29                                      | 438        | 435       | 538    | 23·0           | 17·4          | 11·5          |
|                    |                |                              | 30                                      | 467        | 464       | 574    | 23·8           | 18·0          | 11·9          |
|                    |                |                              | 31                                      | 500        | 497       | 615    | 24·6           | 18·6          | 12·3          |
|                    |                |                              | 32                                      | 533        | 530       | 655    | 25·4           | 19·2          | 12·7          |

## Höhe 16 m.

## Höhe 17 m.

| Formquotient $q_1$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |               |               | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |               |               |     |  |  |  |
|--------------------|------------|------------------------------|----------------------------------------|----------------|------------|--------|----------------|---------------|---------------|--------------------|------------|------------------------------|----------------------------------------|----------------|------------|--------|----------------|---------------|---------------|-----|--|--|--|
|                    |            |                              |                                        | Schaftee       | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |                    |            |                              |                                        | Schaftee       | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |     |  |  |  |
|                    |            |                              |                                        |                |            |        |                |               |               |                    |            |                              |                                        |                |            |        |                |               |               |     |  |  |  |
| cm                 |            |                              |                                        | m <sup>3</sup> |            |        | cm             |               |               |                    |            |                              | cm                                     | m <sup>3</sup> |            |        | cm             |               |               |     |  |  |  |
|                    |            |                              |                                        |                |            |        | der Höhe       |               |               |                    |            |                              |                                        |                |            |        | der Höhe       |               |               |     |  |  |  |
| 0.58               | II         | 49                           | 24                                     | 0.286          | 0.282      | 0.357  | 18.8           | 13.9          | 9.1           | 0.78               | V          | 29                           | 13                                     | 0.128          | 0.121      | 0.145  | 11.8           | 10.1          | 7.2           |     |  |  |  |
|                    |            |                              | 25                                     | 311            | 308        | 388    | 19.6           | 14.5          | 9.5           |                    |            |                              | 14                                     | 148            | 142        | 168    | 12.7           | 10.9          | 7.7           |     |  |  |  |
|                    |            |                              | 26                                     | 337            | 334        | 420    | 20.4           | 15.1          | 9.9           |                    |            |                              | 15                                     | 170            | 164        | 192    | 13.6           | 11.7          | 8.3           |     |  |  |  |
|                    |            |                              | 27                                     | 363            | 360        | 453    | 21.1           | 15.7          | 10.2          |                    |            |                              | 16                                     | 193            | 188        | 219    | 14.5           | 12.5          | 8.8           |     |  |  |  |
|                    |            |                              | 28                                     | 390            | 387        | 487    | 21.9           | 16.2          | 10.6          |                    |            |                              | 17                                     | 218            | 213        | 247    | 15.4           | 13.3          | 9.4           |     |  |  |  |
|                    |            |                              | 29                                     | 420            | 417        | 524    | 22.7           | 16.8          | 11.0          |                    |            |                              | 18                                     | 244            | 239        | 276    | 16.3           | 14.0          | 10.0          |     |  |  |  |
|                    |            |                              | 30                                     | 447            | 444        | 558    | 25.5           | 17.4          | 11.4          |                    |            |                              | 19                                     | 273            | 269        | 309    | 17.2           | 14.8          | 10.5          |     |  |  |  |
|                    |            |                              | 31                                     | 479            | 476        | 598    | 24.3           | 18.0          | 11.7          |                    |            |                              | 20                                     | 301            | 297        | 342    | 18.1           | 15.6          | 11.1          |     |  |  |  |
|                    |            |                              | 32                                     | 510            | 507        | 637    | 25.1           | 18.6          | 12.1          |                    |            |                              | 22                                     | 371            | 367        | 420    | 20.0           | 17.2          | 12.2          |     |  |  |  |
|                    |            |                              | 33                                     | 542            | 539        | 677    | 25.8           | 19.1          | 12.5          |                    |            |                              | 14                                     | 0.143          | 0.137      | 0.163  | 12.5           | 10.6          | 7.5           |     |  |  |  |
|                    |            |                              | 34                                     | 574            | 571        | 716    | 26.6           | 19.7          | 12.9          |                    |            |                              | 15                                     | 165            | 159        | 188    | 13.4           | 11.4          | 8.1           |     |  |  |  |
| 0.56               | II         | 51                           | 27                                     | 0.348          | 0.345      | 0.439  | 20.8           | 15.1          | 9.8           | 0.76               | V          | 31                           | 16                                     | 187            | 182        | 214    | 14.3           | 12.2          | 8.6           |     |  |  |  |
|                    |            |                              | 28                                     | 375            | 372        | 472    | 21.6           | 15.7          | 10.1          |                    |            |                              | 17                                     | 211            | 206        | 241    | 15.2           | 12.9          | 9.1           |     |  |  |  |
|                    |            |                              | 29                                     | 403            | 400        | 508    | 22.4           | 16.2          | 10.5          |                    |            |                              | 18                                     | 236            | 231        | 270    | 16.1           | 13.7          | 9.7           |     |  |  |  |
|                    |            |                              | 30                                     | 429            | 426        | 541    | 23.1           | 16.8          | 10.8          |                    |            |                              | 19                                     | 264            | 260        | 302    | 17.0           | 14.4          | 10.2          |     |  |  |  |
|                    |            |                              | 31                                     | 460            | 457        | 579    | 23.9           | 17.4          | 11.2          |                    |            |                              | 20                                     | 292            | 288        | 334    | 17.9           | 15.2          | 10.7          |     |  |  |  |
|                    |            |                              | 32                                     | 490            | 487        | 618    | 24.7           | 17.9          | 11.6          |                    |            |                              | 22                                     | 359            | 355        | 411    | 19.7           | 16.7          | 11.8          |     |  |  |  |
|                    |            |                              | 33                                     | 521            | 518        | 656    | 25.4           | 18.5          | 11.9          |                    |            |                              | 24                                     | 420            | 417        | 480    | 21.5           | 18.2          | 12.9          |     |  |  |  |
|                    |            |                              | 34                                     | 551            | 548        | 695    | 26.2           | 19.0          | 12.3          |                    |            |                              | 15                                     | 0.159          | 0.153      | 0.184  | 13.2           | 11.1          | 7.8           |     |  |  |  |
|                    |            |                              | 35                                     | 585            | 582        | 738    | 27.0           | 19.6          | 12.7          |                    |            |                              | 16                                     | 181            | 176        | 208    | 14.1           | 11.8          | 8.3           |     |  |  |  |
|                    |            |                              | 36                                     | 619            | 616        | 781    | 27.8           | 20.2          | 13.0          |                    |            |                              | 17                                     | 205            | 200        | 235    | 15.0           | 12.6          | 8.8           |     |  |  |  |
|                    |            |                              | 37                                     | 654            | 651        | 824    | 28.5           | 20.7          | 13.4          | 0.74               | V          | 32                           | 18                                     | 229            | 224        | 263    | 15.9           | 13.3          | 9.3           |     |  |  |  |
|                    |            |                              | 38                                     | 688            | 685        | 867    | 29.3           | 21.3          | 13.8          |                    |            |                              | 19                                     | 256            | 252        | 294    | 16.8           | 14.1          | 9.9           |     |  |  |  |
| 0.54               | II         | 53                           | 31                                     | 0.439          | 0.436      | 0.560  | 23.5           | 16.7          | 10.6          |                    |            |                              | 20                                     | 283            | 279        | 326    | 17.6           | 14.8          | 10.4          |     |  |  |  |
|                    |            |                              | 32                                     | 468            | 465        | 597    | 24.3           | 17.3          | 11.0          |                    |            |                              | 22                                     | 348            | 344        | 400    | 19.4           | 16.3          | 11.4          |     |  |  |  |
|                    |            |                              | 33                                     | 497            | 494        | 634    | 25.0           | 17.8          | 11.3          |                    |            |                              | 24                                     | 407            | 404        | 468    | 21.1           | 17.8          | 12.5          |     |  |  |  |
|                    |            |                              | 34                                     | 526            | 523        | 671    | 25.8           | 18.4          | 11.7          |                    |            |                              | 26                                     | 479            | 476        | 551    | 22.9           | 19.2          | 13.5          |     |  |  |  |
|                    |            |                              | 35                                     | 559            | 556        | 713    | 26.6           | 18.9          | 12.0          |                    |            |                              | 16                                     | 0.175          | 0.170      | 0.203  | 13.9           | 11.5          | 8.0           |     |  |  |  |
|                    |            |                              | 36                                     | 591            | 588        | 755    | 27.3           | 19.4          | 12.3          |                    |            |                              | 17                                     | 198            | 193        | 229    | 14.8           | 12.2          | 8.5           |     |  |  |  |
|                    |            |                              | 37                                     | 624            | 621        | 796    | 28.1           | 20.0          | 12.7          |                    |            |                              | 18                                     | 222            | 217        | 257    | 15.6           | 13.0          | 9.0           |     |  |  |  |
|                    |            |                              | 38                                     | 657            | 654        | 838    | 28.9           | 20.5          | 13.0          |                    | 0.72       | V                            | 34                                     | 19             | 248        | 244    | 287            | 16.5          | 13.7          | 9.5 |  |  |  |
|                    |            |                              | 39                                     | 690            | 687        | 879    | 29.6           | 21.1          | 13.4          |                    |            |                              | 20                                     | 274            | 270        | 317    | 17.4           | 14.4          | 10.0          |     |  |  |  |
|                    |            |                              | 40                                     | 726            | 723        | 926    | 30.4           | 21.6          | 13.7          |                    |            |                              | 22                                     | 336            | 332        | 389    | 19.1           | 15.8          | 11.0          |     |  |  |  |
|                    |            |                              | 41                                     | 766            | 763        | 976    | 31.1           | 22.1          | 14.1          |                    |            |                              | 24                                     | 394            | 391        | 456    | 20.8           | 17.3          | 12.0          |     |  |  |  |
|                    |            |                              | 42                                     | 802            | 799        | 1.02   | 31.9           | 22.7          | 14.4          |                    |            |                              | 26                                     | 463            | 460        | 536    | 22.6           | 18.7          | 13.1          |     |  |  |  |
| 0.52               | I          | 55                           | 36                                     | 0.566          | 0.563      | 0.730  | 26.9           | 18.7          | 11.7          |                    |            |                              | 28                                     | 539            | 536        | 623    | 24.3           | 20.2          | 14.1          |     |  |  |  |
|                    |            |                              | 37                                     | 597            | 594        | 771    | 27.6           | 19.2          | 12.0          | 0.70               | IV         | 37                           | 16                                     | 0.170          | 0.165      | 0.198  | 13.7           | 11.2          | 7.8           |     |  |  |  |
|                    |            |                              | 38                                     | 628            | 625        | 811    | 28.4           | 19.8          | 12.4          |                    |            |                              | 17                                     | 191            | 186        | 223    | 14.5           | 11.9          | 8.2           |     |  |  |  |
|                    |            |                              | 39                                     | 659            | 656        | 851    | 29.1           | 20.3          | 12.7          |                    |            |                              | 18                                     | 214            | 209        | 250    | 15.4           | 12.6          | 8.7           |     |  |  |  |
|                    |            |                              | 40                                     | 694            | 691        | 896    | 29.9           | 20.8          | 13.0          |                    |            |                              | 19                                     | 232            | 235        | 280    | 16.2           | 13.3          | 9.2           |     |  |  |  |
|                    |            |                              | 41                                     | 732            | 729        | 945    | 30.6           | 21.3          | 13.3          |                    |            |                              | 20                                     | 265            | 261        | 309    | 17.1           | 14.0          | 9.7           |     |  |  |  |
|                    |            |                              | 42                                     | 767            | 764        | 990    | 31.4           | 21.8          | 13.6          |                    |            |                              | 22                                     | 325            | 321        | 380    | 18.8           | 15.4          | 10.7          |     |  |  |  |
|                    |            |                              | 43                                     | 805            | 802        | 1.04   | 32.1           | 22.4          | 14.0          |                    |            |                              | 24                                     | 381            | 378        | 444    | 20.5           | 16.8          | 11.6          |     |  |  |  |
|                    |            |                              | 44                                     | 843            | 840        | 1.09   | 32.9           | 22.9          | 14.3          |                    |            |                              | 23                                     | 448            | 445        | 522    | 22.2           | 18.2          | 12.6          |     |  |  |  |
|                    |            |                              | 45                                     | 881            | 878        | 1.14   | 33.6           | 23.4          | 14.6          |                    |            |                              | 28                                     | 520            | 517        | 607    | 23.9           | 19.6          | 13.6          |     |  |  |  |
|                    |            |                              | 46                                     | 919            | 916        | 1.19   | 34.4           | 23.9          | 15.0          |                    |            |                              | 30                                     | 595            | 592        | 695    | 25.6           | 21.0          | 14.6          |     |  |  |  |
|                    |            |                              | 47                                     | 961            | 958        | 1.24   | 35.1           | 24.4          | 15.3          |                    |            |                              | 32                                     | 674            | 671        | 787    | 27.4           | 22.4          | 15.5          |     |  |  |  |



Höhe 18 m.

Höhe 18 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               |          |                |    |          |                |    |
|--------------------|------------|------------------------------|----------------------------------------|------------|-----------|--------|----------------|---------------|---------------|--------------------|------------|------------------------------|----------------------------------------|------------|-----------|--------|----------------|---------------|---------------|----------|----------------|----|----------|----------------|----|
|                    |            |                              |                                        | Schafftes  | Derbolzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |                    |            |                              |                                        | Schafftes  | Derbolzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |                |    |          |                |    |
|                    |            |                              |                                        |            |           |        |                |               |               |                    |            |                              |                                        |            |           |        |                |               |               | der Höhe |                |    | der Höhe |                |    |
|                    |            |                              |                                        |            |           |        |                |               |               |                    |            |                              |                                        |            |           |        |                |               |               | cm       | m <sup>3</sup> | cm | cm       | m <sup>3</sup> | cm |
| 0.78               | V          | 28                           | 13                                     | 0.134      | 0.127     | 0.151  | 11.8           | 10.1          | 7.2           | 0.68               | IV         | 38                           | 18                                     | 0.218      | 0.213     | 0.254  | 15.1           | 12.2          | 8.5           |          |                |    |          |                |    |
|                    |            |                              | 14                                     | 156        | 149       | 175    | 12.7           | 10.9          | 7.8           |                    |            |                              | 19                                     | 244        | 240       | 284    | 16.0           | 12.9          | 8.9           |          |                |    |          |                |    |
|                    |            |                              | 15                                     | 179        | 173       | 202    | 13.6           | 11.7          | 8.3           |                    |            |                              | 20                                     | 269        | 265       | 314    | 16.8           | 13.6          | 9.4           |          |                |    |          |                |    |
|                    |            |                              | 16                                     | 204        | 198       | 229    | 14.5           | 12.5          | 8.9           |                    |            |                              | 22                                     | 331        | 327       | 386    | 18.5           | 15.0          | 10.3          |          |                |    |          |                |    |
|                    |            |                              | 17                                     | 230        | 225       | 259    | 15.4           | 13.3          | 9.4           |                    |            |                              | 24                                     | 388        | 384       | 453    | 20.2           | 16.3          | 11.3          |          |                |    |          |                |    |
|                    |            |                              | 18                                     | 257        | 252       | 289    | 16.3           | 14.0          | 10.0          |                    |            |                              | 26                                     | 456        | 452       | 531    | 21.8           | 17.7          | 12.2          |          |                |    |          |                |    |
|                    |            |                              | 19                                     | 288        | 283       | 323    | 17.2           | 14.8          | 10.5          |                    |            |                              | 28                                     | 529        | 525       | 617    | 23.5           | 19.0          | 13.2          |          |                |    |          |                |    |
|                    |            |                              | 20                                     | 318        | 315       | 358    | 18.1           | 15.6          | 11.1          |                    |            |                              | 30                                     | 605        | 602       | 706    | 25.2           | 20.4          | 14.1          |          |                |    |          |                |    |
|                    |            |                              | 22                                     | 391        | 387       | 440    | 19.9           | 17.2          | 12.2          |                    |            |                              | 32                                     | 686        | 683       | 800    | 26.9           | 21.8          | 15.0          |          |                |    |          |                |    |
|                    |            |                              | 24                                     | 458        | 454       | 515    | 21.7           | 18.7          | 13.4          |                    |            |                              | 34                                     | 777        | 774       | 906    | 28.6           | 23.1          | 16.0          |          |                |    |          |                |    |
| 0.76               | V          | 31                           | 14                                     | 0.151      | 0.144     | 0.171  | 12.5           | 10.6          | 7.5           | 0.66               | IV         | 40                           | 18                                     | 0.210      | 0.205     | 0.247  | 14.9           | 11.9          | 8.1           |          |                |    |          |                |    |
|                    |            |                              | 15                                     | 174        | 168       | 197    | 13.4           | 11.4          | 8.1           |                    |            |                              | 19                                     | 235        | 230       | 276    | 15.7           | 12.5          | 8.6           |          |                |    |          |                |    |
|                    |            |                              | 16                                     | 198        | 192       | 224    | 14.3           | 12.2          | 8.6           |                    |            |                              | 20                                     | 259        | 254       | 306    | 16.5           | 13.2          | 9.0           |          |                |    |          |                |    |
|                    |            |                              | 17                                     | 223        | 218       | 253    | 15.2           | 12.9          | 9.1           |                    |            |                              | 22                                     | 319        | 315       | 376    | 18.2           | 14.5          | 9.9           |          |                |    |          |                |    |
|                    |            |                              | 18                                     | 249        | 244       | 283    | 16.1           | 13.7          | 9.7           |                    |            |                              | 24                                     | 374        | 369       | 440    | 19.8           | 15.8          | 10.8          |          |                |    |          |                |    |
|                    |            |                              | 19                                     | 279        | 274       | 316    | 16.9           | 14.4          | 10.2          |                    |            |                              | 26                                     | 440        | 436       | 517    | 21.5           | 17.2          | 11.7          |          |                |    |          |                |    |
|                    |            |                              | 20                                     | 308        | 303       | 349    | 17.8           | 15.2          | 10.8          |                    |            |                              | 28                                     | 511        | 507       | 600    | 23.2           | 18.5          | 12.6          |          |                |    |          |                |    |
|                    |            |                              | 22                                     | 379        | 374       | 430    | 19.6           | 16.7          | 11.8          |                    |            |                              | 30                                     | 584        | 583       | 687    | 24.8           | 19.8          | 13.5          |          |                |    |          |                |    |
|                    |            |                              | 24                                     | 444        | 440       | 504    | 21.4           | 18.2          | 13.0          |                    |            |                              | 32                                     | 662        | 659       | 779    | 26.5           | 21.1          | 14.4          |          |                |    |          |                |    |
|                    |            |                              | 26                                     | 522        | 518       | 592    | 23.2           | 19.8          | 14.0          |                    |            |                              | 34                                     | 750        | 747       | 882    | 28.1           | 22.4          | 15.3          |          |                |    |          |                |    |
| 0.74               | V          | 32                           | 16                                     | 0.191      | 0.186     | 0.219  | 14.1           | 11.8          | 8.3           | 0.64               | III        | 41                           | 19                                     | 0.226      | 0.221     | 0.269  | 15.5           | 12.2          | 8.3           |          |                |    |          |                |    |
|                    |            |                              | 17                                     | 212        | 207       | 247    | 14.9           | 12.6          | 8.8           |                    |            |                              | 20                                     | 250        | 245       | 297    | 16.3           | 12.8          | 8.7           |          |                |    |          |                |    |
|                    |            |                              | 18                                     | 242        | 237       | 276    | 15.8           | 13.3          | 9.4           |                    |            |                              | 22                                     | 308        | 304       | 365    | 17.9           | 14.1          | 9.6           |          |                |    |          |                |    |
|                    |            |                              | 19                                     | 270        | 265       | 309    | 16.7           | 14.1          | 9.9           |                    |            |                              | 24                                     | 361        | 357       | 428    | 19.6           | 15.4          | 10.4          |          |                |    |          |                |    |
|                    |            |                              | 20                                     | 299        | 295       | 341    | 17.6           | 14.8          | 10.4          |                    |            |                              | 26                                     | 423        | 419       | 503    | 21.2           | 16.6          | 11.3          |          |                |    |          |                |    |
|                    |            |                              | 22                                     | 368        | 364       | 420    | 19.3           | 16.3          | 11.4          |                    |            |                              | 28                                     | 492        | 488       | 583    | 22.8           | 17.9          | 12.2          |          |                |    |          |                |    |
|                    |            |                              | 24                                     | 433        | 429       | 492    | 21.1           | 17.8          | 12.5          |                    |            |                              | 30                                     | 563        | 559       | 668    | 24.4           | 19.2          | 13.0          |          |                |    |          |                |    |
|                    |            |                              | 26                                     | 506        | 502       | 577    | 22.9           | 19.2          | 13.5          |                    |            |                              | 32                                     | 638        | 635       | 757    | 26.1           | 20.5          | 13.9          |          |                |    |          |                |    |
|                    |            |                              | 28                                     | 587        | 583       | 670    | 24.6           | 20.7          | 14.6          |                    |            |                              | 34                                     | 722        | 719       | 857    | 27.7           | 21.8          | 14.8          |          |                |    |          |                |    |
|                    |            |                              |                                        |            |           |        |                |               |               |                    |            |                              | 36                                     | 815        | 812       | 968    | 29.3           | 23.0          | 15.7          |          |                |    |          |                |    |
| 0.72               | V          | 34                           | 17                                     | 0.209      | 0.204     | 0.240  | 14.7           | 12.2          | 8.6           | 0.62               | III        | 44                           | 19                                     | 0.240      | 0.235     | 0.287  | 16.0           | 12.4          | 8.4           |          |                |    |          |                |    |
|                    |            |                              | 18                                     | 233        | 228       | 268    | 15.6           | 13.0          | 9.1           |                    |            |                              | 20                                     | 296        | 292       | 354    | 17.6           | 13.6          | 9.2           |          |                |    |          |                |    |
|                    |            |                              | 19                                     | 261        | 256       | 300    | 16.5           | 13.7          | 9.6           |                    |            |                              | 22                                     | 347        | 343       | 414    | 19.2           | 16.1          | 10.0          |          |                |    |          |                |    |
|                    |            |                              | 20                                     | 289        | 284       | 332    | 17.3           | 14.4          | 10.1          |                    |            |                              | 24                                     | 347        | 343       | 414    | 19.2           | 16.1          | 10.0          |          |                |    |          |                |    |
|                    |            |                              | 22                                     | 355        | 351       | 408    | 19.1           | 15.8          | 11.1          |                    |            |                              | 26                                     | 407        | 403       | 487    | 20.9           | 14.9          | 10.9          |          |                |    |          |                |    |
|                    |            |                              | 24                                     | 416        | 412       | 478    | 20.8           | 17.3          | 12.1          |                    |            |                              | 28                                     | 473        | 469       | 564    | 22.5           | 17.4          | 11.7          |          |                |    |          |                |    |
|                    |            |                              | 26                                     | 488        | 484       | 561    | 22.5           | 18.7          | 13.1          |                    |            |                              | 30                                     | 541        | 538       | 646    | 24.1           | 18.6          | 12.5          |          |                |    |          |                |    |
|                    |            |                              | 28                                     | 567        | 563       | 651    | 24.2           | 20.2          | 14.1          |                    |            |                              | 32                                     | 613        | 610       | 733    | 25.7           | 19.8          | 13.4          |          |                |    |          |                |    |
|                    |            |                              | 30                                     | 649        | 646       | 745    | 26.0           | 21.6          | 15.1          |                    |            |                              | 34                                     | 694        | 691       | 830    | 27.3           | 21.1          | 14.2          |          |                |    |          |                |    |
|                    |            |                              |                                        |            |           |        |                |               |               |                    |            |                              | 36                                     | 784        | 781       | 937    | 28.9           | 22.3          | 15.0          |          |                |    |          |                |    |
| 0.70               | IV         | 36                           | 18                                     | 0.202      | 0.197     | 0.261  | 15.3           | 12.6          | 8.8           | 0.60               | III        | 45                           | 19                                     | 0.285      | 0.281     | 0.344  | 17.3           | 13.2          | 8.8           |          |                |    |          |                |    |
|                    |            |                              | 19                                     | 252        | 247       | 292    | 16.2           | 13.3          | 9.3           |                    |            |                              | 20                                     | 334        | 330       | 403    | 18.9           | 14.4          | 9.6           |          |                |    |          |                |    |
|                    |            |                              | 20                                     | 279        | 274       | 323    | 17.1           | 14.0          | 9.7           |                    |            |                              | 22                                     | 392        | 389       | 473    | 20.5           | 15.6          | 10.4          |          |                |    |          |                |    |
|                    |            |                              | 22                                     | 343        | 339       | 397    | 18.8           | 15.4          | 10.7          |                    |            |                              | 24                                     | 455        | 451       | 549    | 22.1           | 16.8          | 11.2          |          |                |    |          |                |    |
|                    |            |                              | 24                                     | 402        | 398       | 466    | 20.5           | 16.8          | 11.7          |                    |            |                              | 26                                     |            |           |        |                |               |               |          |                |    |          |                |    |
|                    |            |                              | 26                                     | 472        | 468       | 547    | 22.2           | 18.2          | 12.7          |                    |            |                              | 28                                     |            |           |        |                |               |               |          |                |    |          |                |    |
|                    |            |                              | 28                                     | 548        | 544       | 634    | 23.9           | 19.6          | 13.6          |                    |            |                              |                                        |            |           |        |                |               |               |          |                |    |          |                |    |
|                    |            |                              | 30                                     | 627        | 624       | 726    | 25.6           | 21.0          | 14.6          |                    |            |                              |                                        |            |           |        |                |               |               |          |                |    |          |                |    |
|                    |            |                              | 32                                     | 711        | 708       | 824    | 27.3           | 22.4          | 15.6          |                    |            |                              |                                        |            |           |        |                |               |               |          |                |    |          |                |    |

Höhe 18 m.

Höhe 19 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |      |          |     |     |     |       |       |       |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|----------------|------|----------|-----|-----|-----|-------|-------|-------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2            | 3/4  |          |     |     |     |       |       |       |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              |                                         |            |            |        |                |                |      | der Höhe |     |     |     |       |       |       |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              |                                         |            |            |        | cm             | m <sup>3</sup> | cm   |          |     |     |     |       |       |       |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0·60               | III        | 45                           | 30                                      | 0·520      | 0·517      | 0·628  | 23·7           | 18·0           | 12·0 | 0·78     | V   | 28  | 14  | 0·165 | 0·158 | 0·185 | 12·6 | 10·9 | 7·8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              | 32                                      | 590        | 587        | 713    | 25·2           | 19·2           | 12·8 |          |     |     | 15  | 189   | 182   | 213   | 13·5 | 11·7 | 8·3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              | 34                                      | 668        | 665        | 807    | 26·8           | 20·4           | 13·6 |          |     |     | 16  | 215   | 219   | 242   | 14·4 | 12·5 | 8·9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              | 36                                      | 754        | 751        | 911    | 28·4           | 21·6           | 14·4 |          |     |     | 17  | 243   | 237   | 273   | 15·3 | 13·3 | 9·5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              | 38                                      | 832        | 829        | 1·00   | 30·0           | 22·8           | 15·2 |          |     |     | 18  | 272   | 267   | 306   | 16·3 | 14·0 | 10·6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    |            |                              | 40                                      | 939        | 936        | 1·13   | 31·6           | 24·0           | 16·0 | 19       | 304 | 299 | 342 | 17·2  | 14·8  | 10·0  |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Höhe 19 m.

## Höhe 19 m.

| Formquotient $q_1$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |
|--------------------|----------------|------------------------------|----------------------------------------|------------|------------|--------|----------------|---------------|---------------|
|                    |                |                              |                                        | Schafftes  | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |
|                    |                |                              |                                        |            |            |        |                |               |               |
|                    |                |                              |                                        |            |            |        |                |               |               |
| cm                 | m <sup>3</sup> |                              |                                        | cm         |            |        |                |               |               |
| 0·68               | IV             | 37                           | 20                                     | 0·283      | 0·278      | 0·328  | 16·8           | 13·6          | 9·4           |
|                    |                |                              | 22                                     | 348        | 344        | 403    | 18·4           | 15·0          | 10·4          |
|                    |                |                              | 24                                     | 408        | 404        | 472    | 20·1           | 16·3          | 11·3          |
|                    |                |                              | 26                                     | 479        | 475        | 555    | 21·8           | 17·7          | 12·3          |
|                    |                |                              | 28                                     | 556        | 553        | 643    | 23·5           | 19·0          | 13·2          |
|                    |                |                              | 30                                     | 636        | 633        | 737    | 25·1           | 20·4          | 14·2          |
|                    |                |                              | 32                                     | 727        | 724        | 841    | 26·8           | 21·8          | 15·1          |
|                    |                |                              | 34                                     | 817        | 814        | 946    | 28·5           | 23·1          | 16·0          |
|                    |                |                              | 36                                     | 921        | 918        | 1·07   | 30·2           | 24·5          | 17·0          |
| 0·66               | IV             | 39                           | 20                                     | 0·273      | 0·268      | 0·319  | 16·5           | 13·2          | 9·0           |
|                    |                |                              | 22                                     | 336        | 332        | 391    | 18·1           | 14·5          | 10·0          |
|                    |                |                              | 24                                     | 393        | 389        | 459    | 19·8           | 15·8          | 10·9          |
|                    |                |                              | 26                                     | 463        | 459        | 539    | 21·4           | 17·2          | 11·8          |
|                    |                |                              | 28                                     | 536        | 533        | 625    | 23·1           | 18·5          | 12·7          |
|                    |                |                              | 30                                     | 614        | 611        | 716    | 24·8           | 19·8          | 13·6          |
|                    |                |                              | 32                                     | 700        | 697        | 817    | 26·4           | 21·1          | 14·5          |
|                    |                |                              | 34                                     | 788        | 785        | 918    | 28·0           | 22·4          | 15·4          |
|                    |                |                              | 36                                     | 888        | 885        | 1·04   | 29·7           | 23·8          | 16·3          |
| 38                 | 984            | 981                          | 1·13                                   | 31·3       | 25·1       | 17·2   |                |               |               |
| 40                 | 1·08           | 1·08                         | 1·23                                   | 33·0       | 26·4       | 18·1   |                |               |               |
| 0·64               | III            | 41                           | 20                                     | 0·263      | 0·259      | 0·309  | 16·2           | 12·8          | 8·7           |
|                    |                |                              | 22                                     | 323        | 319        | 380    | 17·9           | 14·1          | 9·6           |
|                    |                |                              | 24                                     | 379        | 375        | 446    | 19·5           | 15·4          | 10·5          |
|                    |                |                              | 26                                     | 445        | 441        | 524    | 21·1           | 16·6          | 11·4          |
|                    |                |                              | 28                                     | 516        | 513        | 607    | 22·7           | 17·9          | 12·2          |
|                    |                |                              | 30                                     | 590        | 587        | 695    | 24·4           | 19·2          | 13·1          |
|                    |                |                              | 32                                     | 675        | 672        | 794    | 26·0           | 20·5          | 14·0          |
|                    |                |                              | 34                                     | 758        | 755        | 893    | 27·6           | 21·8          | 14·9          |
|                    |                |                              | 36                                     | 856        | 853        | 1·00   | 29·2           | 23·0          | 15·7          |
| 38                 | 948            | 945                          | 1·11                                   | 30·9       | 24·3       | 16·6   |                |               |               |
| 40                 | 1·05           | 1·05                         | 1·24                                   | 32·5       | 25·6       | 17·5   |                |               |               |
| 42                 | 1·14           | 1·14                         | 1·35                                   | 34·1       | 26·9       | 18·4   |                |               |               |
| 0·62               | III            | 43                           | 20                                     | 0·254      | 0·250      | 0·300  | 16·0           | 12·4          | 8·4           |
|                    |                |                              | 22                                     | 311        | 307        | 369    | 17·6           | 13·6          | 9·2           |
|                    |                |                              | 24                                     | 365        | 361        | 432    | 19·2           | 14·9          | 10·1          |
|                    |                |                              | 26                                     | 429        | 425        | 508    | 20·8           | 16·1          | 10·9          |
|                    |                |                              | 28                                     | 497        | 494        | 588    | 22·4           | 17·4          | 11·8          |
|                    |                |                              | 30                                     | 569        | 566        | 674    | 24·0           | 18·6          | 12·6          |
|                    |                |                              | 32                                     | 650        | 647        | 769    | 25·6           | 19·8          | 13·4          |
|                    |                |                              | 34                                     | 731        | 728        | 865    | 27·2           | 21·1          | 14·3          |
|                    |                |                              | 36                                     | 834        | 821        | 976    | 28·8           | 22·3          | 15·1          |
| 38                 | 914            | 911                          | 1·08                                   | 30·4       | 23·6       | 16·0   |                |               |               |
| 40                 | 1·01           | 1·01                         | 1·20                                   | 32·0       | 24·8       | 16·8   |                |               |               |
| 42                 | 1·12           | 1·12                         | 1·30                                   | 33·6       | 26·0       | 17·6   |                |               |               |
| 0·60               | III            | 44                           | 22                                     | 0·299      | 0·295      | 0·359  | 17·3           | 13·2          | 8·9           |
|                    |                |                              | 24                                     | 350        | 346        | 416    | 18·9           | 14·4          | 9·7           |
|                    |                |                              | 26                                     | 412        | 408        | 495    | 20·5           | 15·6          | 10·5          |
|                    |                |                              |                                        |            |            |        |                |               |               |

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |
|--------------------|----------------|------------------------------|----------------------------------------|------------|------------|--------|----------------|---------------|---------------|
|                    |                |                              |                                        | Schafftes  | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |
|                    |                |                              |                                        |            |            |        |                |               |               |
|                    |                |                              |                                        |            |            |        |                |               |               |
| cm                 | m <sup>3</sup> |                              |                                        | cm         |            |        |                |               |               |
| 0·60               | III            | 44                           | 28                                     | 0·477      | 0·473      | 0·573  | 22·0           | 16·8          | 11·3          |
|                    |                |                              | 30                                     | 547        | 544        | 657    | 23·6           | 18·0          | 12·1          |
|                    |                |                              | 32                                     | 624        | 621        | 749    | 25·2           | 19·2          | 12·9          |
|                    |                |                              | 34                                     | 701        | 698        | 843    | 26·8           | 20·4          | 13·7          |
|                    |                |                              | 36                                     | 792        | 788        | 951    | 28·3           | 21·6          | 14·5          |
|                    |                |                              | 38                                     | 877        | 874        | 1·05   | 29·9           | 22·8          | 15·3          |
|                    |                |                              | 40                                     | 975        | 972        | 1·15   | 31·5           | 24·0          | 16·1          |
|                    |                |                              | 42                                     | 1·07       | 1·07       | 1·27   | 33·1           | 25·2          | 16·9          |
|                    |                |                              |                                        |            |            |        |                |               |               |
| 0·58               | II             | 46                           | 24                                     | 0·335      | 0·331      | 0·406  | 18·6           | 13·9          | 9·3           |
|                    |                |                              | 26                                     | 394        | 390        | 478    | 20·1           | 15·1          | 10·0          |
|                    |                |                              | 28                                     | 456        | 452        | 553    | 21·7           | 16·2          | 10·8          |
|                    |                |                              | 30                                     | 522        | 519        | 634    | 23·2           | 17·4          | 11·6          |
|                    |                |                              | 32                                     | 597        | 594        | 724    | 24·8           | 18·6          | 12·4          |
|                    |                |                              | 34                                     | 671        | 668        | 814    | 26·3           | 19·7          | 13·1          |
|                    |                |                              | 36                                     | 757        | 754        | 918    | 27·9           | 20·9          | 13·9          |
|                    |                |                              | 38                                     | 838        | 835        | 1·02   | 29·4           | 22·0          | 14·7          |
|                    |                |                              | 40                                     | 932        | 929        | 1·13   | 31·1           | 23·2          | 15·4          |
| 42                 | 1·03           | 1·03                         | 1·23                                   | 32·5       | 24·4       | 16·2   |                |               |               |
| 0·56               | II             | 48                           | 28                                     | 0·438      | 0·435      | 0·535  | 21·3           | 15·7          | 10·3          |
|                    |                |                              | 30                                     | 501        | 498        | 614    | 22·9           | 16·8          | 11·0          |
|                    |                |                              | 32                                     | 572        | 569        | 700    | 24·4           | 17·9          | 11·8          |
|                    |                |                              | 34                                     | 643        | 640        | 788    | 25·9           | 19·0          | 12·5          |
|                    |                |                              | 36                                     | 726        | 723        | 888    | 27·4           | 20·2          | 13·2          |
|                    |                |                              | 38                                     | 804        | 801        | 935    | 29·0           | 21·3          | 14·0          |
|                    |                |                              | 40                                     | 893        | 880        | 1·09   | 30·5           | 22·4          | 14·7          |
|                    |                |                              | 42                                     | 984        | 981        | 1·19   | 32·0           | 23·5          | 15·5          |
|                    |                |                              | 44                                     | 1·08       | 1·08       | 1·32   | 33·5           | 24·6          | 16·2          |
| 0·54               | II             | 51                           | 32                                     | 0·546      | 0·543      | 0·678  | 24·0           | 17·3          | 11·2          |
|                    |                |                              | 34                                     | 614        | 611        | 762    | 25·5           | 18·4          | 11·9          |
|                    |                |                              | 36                                     | 692        | 689        | 859    | 27·0           | 19·4          | 12·6          |
|                    |                |                              | 38                                     | 767        | 764        | 952    | 28·5           | 20·5          | 13·3          |
|                    |                |                              | 40                                     | 853        | 850        | 1·06   | 30·0           | 21·6          | 14·0          |
|                    |                |                              | 42                                     | 939        | 936        | 1·15   | 31·5           | 22·7          | 14·7          |
|                    |                |                              | 44                                     | 1·03       | 1·03       | 1·28   | 33·0           | 23·8          | 15·4          |
|                    |                |                              | 46                                     | 1·12       | 1·12       | 1·40   | 34·5           | 24·8          | 16·1          |
|                    |                |                              | 48                                     | 1·23       | 1·23       | 1·52   | 36·0           | 25·9          | 16·8          |
| 50                 | 1·33           | 1·33                         | 1·65                                   | 37·5       | 27·0       | 17·5   |                |               |               |
| 0·52               | I              | 52                           | 36                                     | 0·659      | 0·656      | 0·828  | 26·5           | 18·7          | 12·0          |
|                    |                |                              | 38                                     | 731        | 728        | 918    | 28·0           | 19·8          | 12·6          |
|                    |                |                              | 40                                     | 813        | 810        | 1·02   | 29·5           | 20·8          | 13·3          |
|                    |                |                              | 42                                     | 894        | 891        | 1·11   | 31·0           | 21·8          | 13·9          |
|                    |                |                              | 44                                     | 983        | 980        | 1·23   | 32·4           | 22·9          | 14·6          |
|                    |                |                              | 46                                     | 1·07       | 1·07       | 1·34   | 33·9           | 23·9          | 15·3          |
|                    |                |                              | 48                                     | 1·17       | 1·17       | 1·46   | 35·4           | 25·0          | 15·9          |
|                    |                |                              | 50                                     | 1·27       | 1·27       | 1·59   | 36·9           | 26·0          | 16·6          |
|                    |                |                              | 52                                     | 1·37       | 1·37       | 1·72   | 38·3           | 27·0          | 17·2          |
| 54                 | 1·48           | 1·48                         | 1·86                                   | 39·8       | 28·1       | 17·9   |                |               |               |

Höhe 20 m.

Höhe 20 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |       |       |       |       |       |       |      |      |      |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|-------|-------|-------|-------|-------|-------|------|------|------|
|                    |                |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |       |       |       |       |       |       |      |      |      |
|                    |                |                              |                                         |            |            |        |                |               |               | der Höhe |       |       |       |       |       |       |      |      |      |
|                    |                |                              |                                         |            |            |        |                |               |               |          |       |       |       |       |       |       |      |      |      |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |            |        |                |               |               |          |       |       |       |       |       |       |      |      |      |
| 0.76               | V              | 29                           | 15                                      | 0.192      | 0.185      | 0.215  | 13.3           | 11.4          | 8.1           | 0.66     | IV    | 39    | 19    | 0.259 | 0.254 | 0.300 | 15.6 | 12.5 | 8.6  |
|                    |                |                              | 16                                      | 218        | 212        | 244    | 14.2           | 12.2          | 8.7           |          |       |       | 20    | 287   | 282   | 332   | 16.5 | 13.2 | 9.1  |
|                    |                |                              | 17                                      | 246        | 241        | 275    | 15.1           | 12.9          | 9.2           |          |       |       | 22    | 353   | 348   | 408   | 18.1 | 14.5 | 10.0 |
|                    |                |                              | 18                                      | 275        | 270        | 308    | 16.0           | 13.7          | 9.7           |          |       |       | 24    | 413   | 409   | 478   | 19.8 | 15.8 | 10.9 |
|                    |                |                              | 19                                      | 308        | 303        | 345    | 16.9           | 14.4          | 10.3          |          |       |       | 26    | 484   | 480   | 561   | 21.4 | 17.2 | 11.8 |
|                    |                |                              | 20                                      | 340        | 335        | 381    | 17.8           | 15.2          | 10.8          |          |       |       | 28    | 562   | 558   | 650   | 23.0 | 18.5 | 12.7 |
|                    |                |                              | 22                                      | 418        | 414        | 469    | 19.6           | 16.7          | 11.9          |          |       |       | 30    | 644   | 640   | 746   | 24.7 | 19.8 | 13.6 |
|                    |                |                              | 24                                      | 500        | 496        | 549    | 20.4           | 18.2          | 13.0          |          |       |       | 32    | 736   | 733   | 852   | 26.3 | 21.1 | 14.5 |
|                    |                |                              | 26                                      | 575        | 571        | 643    | 21.3           | 19.8          | 14.1          |          |       |       | 34    | 832   | 829   | 962   | 28.0 | 22.4 | 15.4 |
| 0.74               | V              | 30                           | 16                                      | 0.211      | 0.205      | 0.238  | 14.0           | 11.8          | 8.4           | 0.64     | III   | 40    | 36    | 932   | 929   | 1.08  | 29.6 | 23.8 | 16.3 |
|                    |                |                              | 17                                      | 239        | 233        | 269    | 14.9           | 12.6          | 8.8           |          |       |       | 20    | 0.276 | 0.271 | 0.323 | 16.2 | 12.8 | 8.8  |
|                    |                |                              | 18                                      | 267        | 262        | 300    | 15.7           | 13.3          | 9.4           |          |       |       | 22    | 339   | 334   | 397   | 17.8 | 14.1 | 9.6  |
|                    |                |                              | 19                                      | 299        | 294        | 336    | 16.6           | 14.1          | 9.9           |          |       |       | 24    | 393   | 394   | 465   | 19.4 | 15.4 | 10.5 |
|                    |                |                              | 20                                      | 330        | 325        | 372    | 17.5           | 14.8          | 10.5          |          |       |       | 26    | 466   | 462   | 544   | 21.1 | 16.6 | 11.4 |
|                    |                |                              | 22                                      | 406        | 401        | 457    | 19.2           | 16.3          | 11.5          |          |       |       | 28    | 541   | 537   | 632   | 22.7 | 17.9 | 12.3 |
|                    |                |                              | 24                                      | 476        | 472        | 535    | 21.0           | 17.8          | 12.6          |          |       |       | 30    | 620   | 616   | 725   | 24.3 | 19.2 | 13.1 |
|                    |                |                              | 26                                      | 558        | 554        | 628    | 22.7           | 19.2          | 13.6          |          |       |       | 32    | 708   | 705   | 827   | 25.9 | 20.5 | 14.0 |
|                    |                |                              | 28                                      | 647        | 643        | 728    | 24.5           | 20.7          | 14.6          |          |       |       | 34    | 800   | 797   | 935   | 28.5 | 21.8 | 14.9 |
| 0.72               | V              | 33                           | 17                                      | 0.231      | 0.226      | 0.161  | 14.6           | 12.2          | 8.6           | 0.62     | III   | 42    | 36    | 898   | 895   | 1.05  | 29.2 | 23.0 | 15.8 |
|                    |                |                              | 18                                      | 258        | 253        | 293    | 15.5           | 13.0          | 9.1           |          |       |       | 38    | 994   | 991   | 1.16  | 30.8 | 24.3 | 16.6 |
|                    |                |                              | 19                                      | 289        | 284        | 327    | 16.4           | 13.7          | 9.6           |          |       |       | 22    | 0.326 | 0.321 | 0.384 | 17.6 | 13.6 | 9.2  |
|                    |                |                              | 20                                      | 320        | 315        | 362    | 17.2           | 14.4          | 10.1          |          |       |       | 24    | 382   | 378   | 449   | 19.2 | 14.0 | 10.1 |
|                    |                |                              | 22                                      | 393        | 388        | 445    | 18.0           | 15.8          | 11.1          |          |       |       | 26    | 448   | 444   | 529   | 20.7 | 16.1 | 10.9 |
|                    |                |                              | 24                                      | 460        | 456        | 521    | 20.7           | 17.3          | 12.1          |          |       |       | 28    | 520   | 516   | 611   | 22.3 | 17.4 | 11.8 |
|                    |                |                              | 26                                      | 540        | 536        | 610    | 22.4           | 18.7          | 13.2          |          |       |       | 30    | 596   | 592   | 700   | 23.9 | 18.6 | 12.6 |
|                    |                |                              | 28                                      | 626        | 624        | 708    | 24.1           | 20.2          | 14.2          |          |       |       | 32    | 681   | 678   | 800   | 25.5 | 19.8 | 13.5 |
|                    |                |                              | 30                                      | 718        | 714        | 812    | 25.9           | 21.6          | 15.2          |          |       |       | 34    | 770   | 767   | 904   | 27.1 | 21.1 | 14.3 |
| 0.70               | IV             | 35                           | 17                                      | 0.223      | 0.218      | 0.254  | 14.4           | 11.9          | 8.3           | 0.60     | III   | 44    | 36    | 862   | 859   | 1.01  | 28.7 | 22.3 | 15.2 |
|                    |                |                              | 18                                      | 249        | 244        | 284    | 15.3           | 12.6          | 8.8           |          |       |       | 38    | 956   | 953   | 1.12  | 30.3 | 23.6 | 16.0 |
|                    |                |                              | 19                                      | 279        | 274        | 318    | 16.1           | 13.3          | 9.3           |          |       |       | 40    | 1.07  | 1.07  | 1.26  | 31.9 | 24.8 | 16.8 |
|                    |                |                              | 20                                      | 308        | 303        | 352    | 17.0           | 14.0          | 9.8           |          |       |       | 42    | 1.17  | 1.17  | 1.38  | 33.5 | 26.0 | 17.7 |
|                    |                |                              | 22                                      | 379        | 375        | 433    | 18.7           | 15.4          | 10.8          |          |       |       | 22    | 0.313 | 0.308 | 0.373 | 17.3 | 13.2 | 9.0  |
|                    |                |                              | 24                                      | 444        | 440        | 506    | 20.4           | 16.8          | 11.8          |          |       |       | 24    | 367   | 363   | 437   | 18.8 | 14.4 | 9.8  |
|                    |                |                              | 26                                      | 520        | 516        | 594    | 22.1           | 18.2          | 12.7          |          |       |       | 26    | 430   | 426   | 512   | 20.4 | 15.6 | 10.6 |
|                    |                |                              | 28                                      | 604        | 600        | 689    | 23.8           | 19.6          | 13.7          |          |       |       | 28    | 499   | 495   | 594   | 22.0 | 16.8 | 11.4 |
|                    |                |                              | 30                                      | 692        | 688        | 789    | 25.5           | 21.0          | 14.7          |          |       |       | 30    | 572   | 568   | 681   | 23.6 | 18.0 | 12.2 |
| 0.68               | IV             | 36                           | 32                                      | 790        | 787        | 902    | 27.2           | 22.4          | 15.7          | 32       | 654   | 651   | 777   | 25.1  | 19.2  | 13.0  |      |      |      |
|                    |                |                              | 18                                      | 0.241      | 0.236      | 0.277  | 15.0           | 12.2          | 8.5           | 34       | 739   | 736   | 879   | 26.7  | 20.4  | 13.8  |      |      |      |
|                    |                |                              | 19                                      | 269        | 264        | 309    | 15.9           | 12.9          | 9.0           | 36       | 828   | 825   | 985   | 28.3  | 21.6  | 14.7  |      |      |      |
|                    |                |                              | 20                                      | 298        | 293        | 342    | 16.9           | 13.6          | 9.5           | 38       | 918   | 915   | 1.09  | 29.8  | 22.8  | 15.5  |      |      |      |
|                    |                |                              | 22                                      | 366        | 361        | 421    | 18.4           | 15.0          | 10.4          | 40       | 1.03  | 1.03  | 1.23  | 31.4  | 24.0  | 16.3  |      |      |      |
|                    |                |                              | 24                                      | 428        | 424        | 493    | 20.1           | 16.3          | 11.4          | 42       | 1.12  | 1.12  | 1.34  | 33.0  | 25.2  | 17.1  |      |      |      |
|                    |                |                              | 26                                      | 502        | 498        | 578    | 21.7           | 17.7          | 12.3          | 44       | 1.23  | 1.23  | 1.47  | 34.5  | 26.4  | 17.9  |      |      |      |
|                    |                |                              | 28                                      | 583        | 579        | 670    | 23.4           | 19.0          | 13.2          | 46       | 1.35  | 1.35  | 1.60  | 36.1  | 27.6  | 18.7  |      |      |      |
|                    |                |                              | 30                                      | 668        | 664        | 768    | 25.1           | 20.4          | 14.2          | 24       | 0.351 | 0.347 | 0.424 | 18.5  | 13.9  | 9.3   |      |      |      |
|                    |                |                              | 32                                      | 763        | 760        | 877    | 26.8           | 21.8          | 15.1          | 26       | 411   | 407   | 497   | 20.1  | 15.1  | 10.1  |      |      |      |
|                    |                |                              | 34                                      | 863        | 860        | 992    | 28.4           | 23.1          | 16.1          | 28       | 477   | 473   | 576   | 21.6  | 16.2  | 10.8  |      |      |      |

Höhe 20 m.

Höhe 21 *m.*

| Formquotient $q_2$ | Formklasse | Kronenlänge in<br>%<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      | Formquotient $q_2$ | Formklasse | Kronenlänge in<br>%<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      |          |  |  |          |  |  |
|--------------------|------------|---------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|--------------------|------------|---------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|----------|--|--|----------|--|--|
|                    |            |                                 |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |                    |            |                                 |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |          |  |  |          |  |  |
|                    |            |                                 |                                         |            |            |        |                |      |      |                    |            |                                 |                                         |            |            |        |                |      |      | der Höhe |  |  | der Höhe |  |  |
|                    |            |                                 |                                         |            |            |        |                |      |      |                    |            |                                 |                                         |            |            |        |                |      |      | cm       |  |  | cm       |  |  |
| 0.58               | II         | 45                              | 30                                      | 0.547      | 0.543      | 0.661  | 23.2           | 17.4 | 11.6 | 0.76               | V          | 29                              | 16                                      | 0.229      | 0.223      | 0.254  | 14.2           | 12.2 | 8.7  |          |  |  |          |  |  |
|                    |            |                                 | 32                                      | 625        | 622        | 755    | 24.7           | 18.6 | 12.4 |                    |            |                                 | 17                                      | 258        | 252        | 287    | 15.1           | 12.9 | 9.2  |          |  |  |          |  |  |
|                    |            |                                 | 34                                      | 706        | 703        | 854    | 26.2           | 19.7 | 13.2 |                    |            |                                 | 18                                      | 289        | 283        | 321    | 16.0           | 13.7 | 9.7  |          |  |  |          |  |  |
|                    |            |                                 | 36                                      | 792        | 789        | 956    | 27.8           | 20.9 | 13.9 |                    |            |                                 | 19                                      | 323        | 317        | 359    | 16.9           | 14.4 | 10.3 |          |  |  |          |  |  |
|                    |            |                                 | 38                                      | 877        | 874        | 1.06   | 29.3           | 22.0 | 14.7 |                    |            |                                 | 20                                      | 357        | 352        | 397    | 17.7           | 15.2 | 10.8 |          |  |  |          |  |  |
|                    |            |                                 | 40                                      | 977        | 974        | 1.18   | 30.9           | 23.2 | 15.5 |                    |            |                                 | 22                                      | 439        | 434        | 488    | 19.5           | 16.7 | 12.9 |          |  |  |          |  |  |
|                    |            |                                 | 42                                      | 1.07       | 1.07       | 1.30   | 32.4           | 24.4 | 16.3 |                    |            |                                 | 24                                      | 514        | 509        | 571    | 21.3           | 18.2 | 13.0 |          |  |  |          |  |  |
|                    |            |                                 | 44                                      | 1.18       | 1.18       | 1.42   | 34.0           | 25.5 | 17.0 |                    |            |                                 | 26                                      | 602        | 598        | 668    | 23.1           | 19.8 | 14.1 |          |  |  |          |  |  |
|                    |            |                                 | 46                                      | 1.29       | 1.29       | 1.56   | 35.5           | 26.7 | 17.8 |                    |            |                                 | 28                                      | 699        | 695        | 777    | 24.8           | 21.3 | 15.2 |          |  |  |          |  |  |
|                    |            |                                 | 48                                      | 1.40       | 1.40       | 1.70   | 37.1           | 27.8 | 18.6 |                    |            |                                 |                                         |            |            |        |                |      |      |          |  |  |          |  |  |
| 0.56               | II         | 47                              | 30                                      | 0.525      | 0.521      | 0.637  | 22.8           | 16.8 | 11.1 | 0.74               | V          | 30                              | 17                                      | 0.250      | 0.244      | 0.280  | 14.9           | 12.6 | 8.9  |          |  |  |          |  |  |
|                    |            |                                 | 32                                      | 599        | 596        | 728    | 24.3           | 17.9 | 11.8 |                    |            |                                 | 18                                      | 280        | 274        | 313    | 15.7           | 13.3 | 9.4  |          |  |  |          |  |  |
|                    |            |                                 | 34                                      | 677        | 674        | 823    | 25.8           | 19.0 | 12.6 |                    |            |                                 | 19                                      | 313        | 307        | 350    | 16.6           | 14.1 | 10.0 |          |  |  |          |  |  |
|                    |            |                                 | 36                                      | 759        | 756        | 917    | 27.4           | 20.2 | 13.3 |                    |            |                                 | 20                                      | 346        | 341        | 387    | 17.5           | 14.8 | 10.5 |          |  |  |          |  |  |
|                    |            |                                 | 38                                      | 841        | 838        | 1.02   | 28.9           | 21.3 | 14.1 |                    |            |                                 | 22                                      | 426        | 421        | 476    | 19.2           | 16.3 | 11.6 |          |  |  |          |  |  |
|                    |            |                                 | 40                                      | 945        | 934        | 1.14   | 30.4           | 22.4 | 14.8 |                    |            |                                 | 24                                      | 498        | 493        | 557    | 21.0           | 17.8 | 12.6 |          |  |  |          |  |  |
|                    |            |                                 | 42                                      | 1.03       | 1.03       | 1.25   | 31.9           | 23.5 | 15.5 |                    |            |                                 | 26                                      | 582        | 578        | 651    | 22.7           | 19.2 | 13.6 |          |  |  |          |  |  |
|                    |            |                                 | 44                                      | 1.13       | 1.13       | 1.37   | 33.4           | 24.6 | 16.3 |                    |            |                                 | 28                                      | 677        | 673        | 757    | 24.5           | 20.7 | 14.7 |          |  |  |          |  |  |
|                    |            |                                 | 46                                      | 1.23       | 1.23       | 1.50   | 35.0           | 25.8 | 17.0 |                    |            |                                 | 30                                      | 777        | 773        | 868    | 26.2           | 22.2 | 15.7 |          |  |  |          |  |  |
|                    |            |                                 | 48                                      | 1.35       | 1.35       | 1.64   | 36.5           | 26.9 | 17.8 |                    |            |                                 |                                         |            |            |        |                |      |      |          |  |  |          |  |  |
| 0.54               | II         | 50                              | 32                                      | 0.571      | 0.568      | 0.703  | 23.9           | 17.3 | 11.3 | 0.72               | V          | 32                              | 18                                      | 0.270      | 0.264      | 0.304  | 15.5           | 13.0 | 9.1  |          |  |  |          |  |  |
|                    |            |                                 | 34                                      | 646        | 643        | 795    | 25.4           | 18.4 | 12.0 |                    |            |                                 | 19                                      | 302        | 296        | 340    | 16.4           | 13.7 | 9.6  |          |  |  |          |  |  |
|                    |            |                                 | 36                                      | 724        | 721        | 891    | 26.9           | 19.4 | 12.7 |                    |            |                                 | 20                                      | 334        | 329        | 376    | 17.2           | 14.4 | 10.2 |          |  |  |          |  |  |
|                    |            |                                 | 38                                      | 802        | 799        | 988    | 28.4           | 20.5 | 13.4 |                    |            |                                 | 22                                      | 411        | 406        | 462    | 18.9           | 15.8 | 11.2 |          |  |  |          |  |  |
|                    |            |                                 | 40                                      | 894        | 891        | 1.10   | 29.9           | 21.6 | 14.1 |                    |            |                                 | 24                                      | 481        | 476        | 540    | 20.7           | 17.3 | 12.2 |          |  |  |          |  |  |
|                    |            |                                 | 42                                      | 983        | 980        | 1.21   | 31.4           | 22.7 | 14.8 |                    |            |                                 | 26                                      | 562        | 558        | 633    | 22.4           | 18.7 | 13.2 |          |  |  |          |  |  |
|                    |            |                                 | 44                                      | 1.08       | 1.08       | 1.33   | 32.9           | 23.6 | 15.5 |                    |            |                                 | 28                                      | 654        | 650        | 735    | 24.1           | 20.2 | 14.2 |          |  |  |          |  |  |
|                    |            |                                 | 46                                      | 1.18       | 1.18       | 1.45   | 34.4           | 24.8 | 16.2 |                    |            |                                 | 30                                      | 750        | 746        | 844    | 25.8           | 21.6 | 15.2 |          |  |  |          |  |  |
|                    |            |                                 | 48                                      | 1.28       | 1.28       | 1.58   | 35.9           | 25.9 | 16.9 |                    |            |                                 | 32                                      | 857        | 854        | 963    | 27.6           | 23.0 | 16.1 |          |  |  |          |  |  |
|                    |            |                                 | 50                                      | 1.39       | 1.39       | 1.71   | 37.3           | 27.0 | 17.6 |                    |            |                                 | 34                                      | 968        | 965        | 1.09   | 29.3           | 24.5 | 17.3 |          |  |  |          |  |  |
| 0.52               | I          | 52                              | 42                                      | 1.08       | 1.08       | 1.33   | 32.9           | 23.6 | 15.5 | 0.70               | IV         | 34                              | 18                                      | 0.261      | 0.255      | 0.296  | 15.3           | 12.6 | 8.8  |          |  |  |          |  |  |
|                    |            |                                 | 46                                      | 1.18       | 1.18       | 1.45   | 34.4           | 24.8 | 16.2 |                    |            |                                 | 19                                      | 292        | 286        | 331    | 16.1           | 13.3 | 9.3  |          |  |  |          |  |  |
|                    |            |                                 | 48                                      | 1.28       | 1.28       | 1.58   | 35.9           | 25.9 | 16.9 |                    |            |                                 | 20                                      | 323        | 318        | 366    | 17.0           | 14.6 | 9.8  |          |  |  |          |  |  |
|                    |            |                                 | 50                                      | 1.39       | 1.39       | 1.71   | 37.3           | 27.0 | 17.6 |                    |            |                                 | 22                                      | 397        | 392        | 450    | 18.7           | 15.4 | 10.8 |          |  |  |          |  |  |
|                    |            |                                 | 52                                      | 1.50       | 1.50       | 1.85   | 38.8           | 28.1 | 18.3 |                    |            |                                 | 24                                      | 465        | 461        | 527    | 20.4           | 16.8 | 11.8 |          |  |  |          |  |  |
|                    |            |                                 | 54                                      | 1.62       | 1.62       | 2.00   | 40.3           | 29.2 | 19.0 |                    |            |                                 | 26                                      | 544        | 540        | 616    | 22.0           | 18.2 | 12.8 |          |  |  |          |  |  |
|                    |            |                                 |                                         |            |            |        |                |      |      |                    |            |                                 | 28                                      | 632        | 628        | 716    | 23.7           | 19.6 | 13.7 |          |  |  |          |  |  |
|                    |            |                                 |                                         |            |            |        |                |      |      |                    |            |                                 | 30                                      | 725        | 721        | 821    | 25.4           | 21.0 | 14.7 |          |  |  |          |  |  |
|                    |            |                                 |                                         |            |            |        |                |      |      |                    |            |                                 | 32                                      | 828        | 825        | 938    | 27.1           | 22.4 | 15.7 |          |  |  |          |  |  |
|                    |            |                                 |                                         |            |            |        |                |      |      |                    |            |                                 | 34                                      | 936        | 933        | 1.06   | 28.8           | 23.8 | 16.7 |          |  |  |          |  |  |
| 0.52               | I          | 52                              | 44                                      | 1.03       | 1.03       | 1.28   | 32.3           | 22.9 | 14.7 | 0.68               | IV         | 36                              | 36                                      | 1.05       | 1.05       | 1.19   | 30.5           | 25.2 | 17.7 |          |  |  |          |  |  |
|                    |            |                                 | 46                                      | 1.12       | 1.12       | 1.40   | 33.8           | 23.9 | 15.4 |                    |            |                                 | 19                                      | 0.282      | 0.276      | 0.322  | 15.8           | 12.9 | 9.1  |          |  |  |          |  |  |
|                    |            |                                 | 48                                      | 1.22       | 1.22       | 1.52   | 35.3           | 25.0 | 16.0 |                    |            |                                 | 20                                      | 312        | 307        | 356    | 16.7           | 13.6 | 9.5  |          |  |  |          |  |  |
|                    |            |                                 | 50                                      | 1.32       | 1.32       | 1.65   | 36.8           | 26.0 | 16.7 |                    |            |                                 | 22                                      | 384        | 379        | 437    | 18.4           | 15.0 | 10.4 |          |  |  |          |  |  |
|                    |            |                                 | 52                                      | 1.43       | 1.43       | 1.78   | 38.2           | 27.0 | 17.4 |                    |            |                                 | 24                                      | 449        | 444        | 512    | 20.0           | 16.3 | 11.4 |          |  |  |          |  |  |
|                    |            |                                 | 54                                      | 1.55       | 1.55       | 1.93   | 39.7           | 28.1 | 18.9 |                    |            |                                 | 26                                      | 525        | 521        | 599    | 21.7           | 17.7 | 12.3 |          |  |  |          |  |  |
|                    |            |                                 | 56                                      | 1.66       | 1.66       | 2.07   | 41.2           | 29.1 | 18.7 |                    |            |                                 | 28                                      | 610        | 606        | 697    | 23.4           | 19.0 | 13.3 |          |  |  |          |  |  |
|                    |            |                                 | 58                                      | 1.78       | 1.78       | 2.22   | 42.6           | 30.2 | 19.4 |                    |            |                                 | 30                                      | 700        | 696        | 799    | 25.0           | 20.4 | 14.2 |          |  |  |          |  |  |
|                    |            |                                 | 60                                      | 1.91       | 1.91       | 2.38   | 44.1           | 31.2 | 20.0 |                    |            |                                 | 32                                      | 799        | 796        | 913    | 26.7           | 21.8 | 15.2 |          |  |  |          |  |  |
|                    |            |                                 | 62                                      | 2.04       | 2.04       | 2.54   | 45.6           | 32.2 | 20.7 |                    |            |                                 |                                         |            |            |        |                |      |      |          |  |  |          |  |  |



Höhe 22 m

Höhe 22 m

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |
|--------------------|----------------|------------------------------|----------------------------------------|------------|------------|--------|----------------|---------------|---------------|
|                    |                |                              |                                        | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |
|                    |                |                              |                                        |            |            |        |                |               |               |
|                    |                |                              |                                        |            |            |        |                |               |               |
| cm                 | m <sup>3</sup> |                              |                                        | cm         |            |        |                |               |               |
| 0-76               | V              | 29                           | 16                                     | 0-239      | 0-232      | 0-264  | 14-1           | 12-2          | 8-7           |
|                    |                |                              | 17                                     | 270        | 264        | 298    | 15-1           | 12-9          | 9-2           |
|                    |                |                              | 18                                     | 302        | 296        | 334    | 15-9           | 13-7          | 9-8           |
|                    |                |                              | 19                                     | 338        | 332        | 374    | 16-8           | 14-4          | 10-3          |
|                    |                |                              | 20                                     | 374        | 369        | 413    | 17-7           | 15-2          | 10-9          |
|                    |                |                              | 22                                     | 459        | 454        | 508    | 19-5           | 16-7          | 11-9          |
|                    |                |                              | 24                                     | 538        | 534        | 594    | 21-3           | 18-2          | 13-0          |
|                    |                |                              | 26                                     | 632        | 628        | 700    | 23-0           | 19-8          | 14-1          |
|                    |                |                              | 28                                     | 735        | 731        | 813    | 24-8           | 21-3          | 15-2          |
| 0-74               | V              | 30                           | 17                                     | 0-261      | 0-255      | 0-291  | 14-8           | 12-6          | 8-9           |
|                    |                |                              | 18                                     | 293        | 287        | 326    | 15-7           | 13-3          | 9-5           |
|                    |                |                              | 19                                     | 327        | 321        | 364    | 16-6           | 14-1          | 10-0          |
|                    |                |                              | 20                                     | 362        | 357        | 403    | 17-5           | 14-8          | 10-5          |
|                    |                |                              | 22                                     | 445        | 440        | 495    | 19-2           | 16-3          | 11-6          |
|                    |                |                              | 24                                     | 521        | 516        | 579    | 21-0           | 17-8          | 12-6          |
|                    |                |                              | 26                                     | 613        | 609        | 682    | 22-7           | 19-2          | 13-6          |
|                    |                |                              | 28                                     | 712        | 708        | 792    | 24-4           | 20-7          | 14-7          |
|                    |                |                              | 30                                     | 817        | 814        | 909    | 28-2           | 22-2          | 15-8          |
| 0-72               | V              | 32                           | 18                                     | 0-283      | 0-277      | 0-316  | 15-5           | 13-0          | 9-2           |
|                    |                |                              | 19                                     | 316        | 310        | 354    | 16-3           | 13-7          | 9-7           |
|                    |                |                              | 20                                     | 350        | 345        | 391    | 17-2           | 14-4          | 10-2          |
|                    |                |                              | 22                                     | 429        | 424        | 480    | 18-9           | 15-8          | 11-2          |
|                    |                |                              | 24                                     | 503        | 499        | 563    | 20-6           | 17-3          | 12-2          |
|                    |                |                              | 26                                     | 592        | 588        | 662    | 22-3           | 18-7          | 13-2          |
|                    |                |                              | 28                                     | 688        | 684        | 769    | 24-1           | 20-2          | 14-3          |
|                    |                |                              | 30                                     | 789        | 786        | 882    | 25-8           | 21-6          | 15-3          |
|                    |                |                              | 32                                     | 896        | 893        | 1-00   | 27-5           | 23-0          | 16-3          |
| 0-70               | V              | 34                           | 19                                     | 0-307      | 0-301      | 0-345  | 16-1           | 13-3          | 9-3           |
|                    |                |                              | 20                                     | 340        | 335        | 381    | 16-9           | 14-0          | 9-8           |
|                    |                |                              | 22                                     | 418        | 413        | 469    | 18-6           | 15-4          | 10-8          |
|                    |                |                              | 24                                     | 489        | 485        | 548    | 20-3           | 16-8          | 11-8          |
|                    |                |                              | 26                                     | 575        | 571        | 645    | 22-0           | 18-2          | 12-8          |
|                    |                |                              | 28                                     | 669        | 664        | 750    | 23-7           | 19-6          | 13-8          |
|                    |                |                              | 30                                     | 768        | 765        | 861    | 25-4           | 21-0          | 14-8          |
|                    |                |                              | 32                                     | 871        | 868        | 977    | 27-1           | 22-4          | 15-7          |
|                    |                |                              | 34                                     | 984        | 981        | 1-10   | 28-8           | 23-8          | 16-7          |
| 0-68               | IV             | 35                           | 36                                     | 1-10       | 1-10       | 1-24   | 30-4           | 25-2          | 17-7          |
|                    |                |                              | 19                                     | 0-295      | 0-289      | 0-335  | 15-8           | 12-9          | 9-0           |
|                    |                |                              | 20                                     | 326        | 321        | 370    | 16-7           | 13-6          | 9-5           |
|                    |                |                              | 22                                     | 401        | 386        | 455    | 18-3           | 15-0          | 10-5          |
|                    |                |                              | 24                                     | 469        | 465        | 533    | 20-0           | 16-3          | 11-4          |
|                    |                |                              | 26                                     | 552        | 548        | 627    | 21-7           | 17-7          | 12-4          |
|                    |                |                              | 28                                     | 641        | 637        | 729    | 23-3           | 19-0          | 13-3          |
|                    |                |                              | 30                                     | 736        | 733        | 836    | 25-0           | 20-4          | 14-3          |
|                    |                |                              | 32                                     | 835        | 832        | 948    | 26-7           | 21-8          | 15-2          |
| 0-66               | IV             | 38                           | 34                                     | 944        | 941        | 1-07   | 28-3           | 23-4          | 16-2          |
|                    |                |                              | 36                                     | 1-06       | 1-06       | 1-20   | 30-0           | 24-5          | 17-1          |
|                    |                |                              | 20                                     | 0-314      | 0-309      | 0-359  | 16-4           | 13-2          | 9-1           |
|                    |                |                              | 22                                     | 385        | 380        | 441    | 18-0           | 14-5          | 10-0          |
|                    |                |                              | 24                                     | 451        | 447        | 516    | 19-7           | 15-8          | 11-0          |
|                    |                |                              | 26                                     | 531        | 527        | 607    | 21-3           | 17-2          | 11-9          |
|                    |                |                              | 28                                     | 618        | 614        | 705    | 23-0           | 18-5          | 12-8          |
|                    |                |                              | 30                                     | 708        | 705        | 809    | 24-6           | 19-8          | 13-7          |
|                    |                |                              | 32                                     | 803        | 800        | 918    | 26-2           | 21-1          | 14-6          |
| 0-64               | IV             | 39                           | 34                                     | 908        | 905        | 1-04   | 27-9           | 22-4          | 15-5          |
|                    |                |                              | 36                                     | 1-02       | 1-02       | 1-16   | 29-5           | 23-8          | 16-5          |
|                    |                |                              | 38                                     | 1-13       | 1-13       | 1-29   | 31-2           | 25-1          | 17-4          |
|                    |                |                              | 22                                     | 0-371      | 0-365      | 0-428  | 17-8           | 14-1          | 9-7           |
|                    |                |                              | 24                                     | 434        | 430        | 501    | 18-6           | 15-7          | 10-6          |
|                    |                |                              | 26                                     | 511        | 507        | 589    | 21-0           | 16-6          | 11-5          |
|                    |                |                              | 28                                     | 594        | 590        | 685    | 22-6           | 17-9          | 12-3          |
|                    |                |                              | 30                                     | 682        | 679        | 786    | 24-2           | 19-2          | 13-2          |
|                    |                |                              | 32                                     | 773        | 770        | 892    | 25-8           | 20-5          | 14-1          |
| 0-62               | III            | 41                           | 34                                     | 874        | 871        | 1-01   | 27-4           | 21-8          | 15-0          |
|                    |                |                              | 36                                     | 978        | 975        | 1-13   | 29-1           | 23-0          | 15-9          |
|                    |                |                              | 38                                     | 1-09       | 1-09       | 1-25   | 30-7           | 24-3          | 16-8          |
|                    |                |                              | 40                                     | 1-21       | 1-21       | 1-39   | 32-3           | 25-6          | 17-6          |
|                    |                |                              | 42                                     | 1-33       | 1-33       | 1-53   | 33-9           | 26-9          | 18-5          |
|                    |                |                              | 24                                     | 0-418      | 0-414      | 0-485  | 19-1           | 14-9          | 10-2          |
|                    |                |                              | 26                                     | 493        | 489        | 570    | 20-6           | 16-1          | 11-0          |
|                    |                |                              | 28                                     | 573        | 569        | 664    | 22-2           | 17-4          | 11-9          |
|                    |                |                              | 30                                     | 657        | 654        | 761    | 23-8           | 18-6          | 12-7          |
| 0-60               | III            | 43                           | 32                                     | 745        | 742        | 864    | 25-4           | 19-8          | 13-6          |
|                    |                |                              | 34                                     | 842        | 839        | 976    | 27-0           | 21-1          | 14-4          |
|                    |                |                              | 36                                     | 943        | 940        | 1-09   | 28-6           | 22-3          | 15-3          |
|                    |                |                              | 38                                     | 1-05       | 1-05       | 1-22   | 30-2           | 23-6          | 16-1          |
|                    |                |                              | 40                                     | 1-17       | 1-17       | 1-35   | 31-8           | 24-8          | 17-0          |
|                    |                |                              | 42                                     | 1-28       | 1-28       | 1-48   | 33-3           | 26-0          | 17-8          |
|                    |                |                              | 44                                     | 1-41       | 1-41       | 1-63   | 34-9           | 27-3          | 18-7          |
|                    |                |                              | 46                                     | 1-54       | 1-54       | 1-78   | 36-5           | 28-5          | 19-5          |
|                    |                |                              | 26                                     | 0-473      | 0-469      | 0-553  | 20-3           | 15-6          | 10-6          |
| 0-60               | III            | 43                           | 28                                     | 549        | 545        | 643    | 21-9           | 16-8          | 11-4          |
|                    |                |                              | 30                                     | 630        | 627        | 738    | 23-4           | 18-0          | 12-2          |
|                    |                |                              | 32                                     | 715        | 712        | 837    | 25-0           | 19-2          | 13-0          |
|                    |                |                              | 34                                     | 808        | 805        | 946    | 26-6           | 20-4          | 13-8          |
|                    |                |                              | 36                                     | 904        | 901        | 1-06   | 28-1           | 21-6          | 14-7          |
|                    |                |                              | 38                                     | 1-00       | 1-00       | 1-18   | 29-7           | 22-8          | 15-5          |
|                    |                |                              | 40                                     | 1-12       | 1-12       | 1-31   | 31-2           | 24-0          | 16-3          |
|                    |                |                              | 42                                     | 1-23       | 1-23       | 1-44   | 32-8           | 25-2          | 17-1          |
|                    |                |                              | 44                                     | 1-35       | 1-35       | 1-58   | 34-4           | 26-4          | 17-9          |
| 0-60               | III            | 43                           | 46                                     | 1-47       | 1-47       | 1-73   | 35-9           | 27-6          | 18-7          |
|                    |                |                              | 48                                     | 1-61       | 1-61       | 1-88   | 37-5           | 28-8          | 19-5          |
|                    |                |                              | 50                                     | 1-74       | 1-74       | 2-04   | 39-0           | 30-0          | 20-4          |
|                    |                |                              | 52                                     | 1-88       | 1-88       | 2-21   | 40-6           | 31-2          | 21-2          |

Höhe 22 *m.*

Höhe 23 *m.*

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      |          |  |  |          |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|----------|--|--|----------|--|--|
|                    |            |                              |                                         | Schafthes  | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |                    |            |                              |                                         | Schafthes  | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |          |  |  |          |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      |                    |            |                              |                                         |            |            |        |                |      |      | der Höhe |  |  | der Höhe |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      |                    |            |                              |                                         |            |            |        |                |      |      | cm       |  |  | cm       |  |  |
| 0-58               | II         | 44                           | 30                                      | 0-602      | 0-599      | 0-714  | 23-1           | 17-4 | 11-7 | 0-76               | V          | 28                           | 17                                      | 0-282      | 0-275      | 0-310  | 15-0           | 13-3 | 9-2  |          |  |  |          |  |  |
|                    |            |                              | 32                                      | 683        | 680        | 810    | 24-6           | 18-6 | 12-5 |                    |            |                              | 18                                      | 315        | 309        | 347    | 15-9           | 14-0 | 9-8  |          |  |  |          |  |  |
|                    |            |                              | 34                                      | 772        | 769        | 916    | 26-2           | 19-1 | 13-3 |                    |            |                              | 19                                      | 353        | 347        | 388    | 16-8           | 14-8 | 10-3 |          |  |  |          |  |  |
|                    |            |                              | 36                                      | 865        | 862        | 1-03   | 27-7           | 20-9 | 14-0 |                    |            |                              | 20                                      | 389        | 384        | 429    | 17-7           | 15-6 | 10-9 |          |  |  |          |  |  |
|                    |            |                              | 38                                      | 961        | 958        | 1-14   | 29-3           | 22-0 | 14-8 |                    |            |                              | 22                                      | 479        | 474        | 527    | 19-4           | 17-2 | 12-0 |          |  |  |          |  |  |
|                    |            |                              | 40                                      | 1-07       | 1-07       | 1-27   | 30-8           | 23-2 | 15-6 |                    |            |                              | 24                                      | 561        | 556        | 618    | 21-2           | 18-7 | 13-1 |          |  |  |          |  |  |
|                    |            |                              | 42                                      | 1-17       | 1-17       | 1-39   | 32-3           | 24-4 | 16-4 |                    |            |                              | 26                                      | 659        | 655        | 725    | 23-0           | 20-3 | 14-1 |          |  |  |          |  |  |
|                    |            |                              | 44                                      | 1-29       | 1-29       | 1-53   | 33-9           | 25-5 | 17-2 |                    |            |                              | 28                                      | 761        | 757        | 838    | 24-8           | 21-8 | 15-2 |          |  |  |          |  |  |
|                    |            |                              | 46                                      | 1-41       | 1-41       | 1-67   | 35-4           | 26-7 | 17-9 |                    |            |                              | 30                                      | 880        | 877        | 968    | 26-5           | 23-4 | 16-3 |          |  |  |          |  |  |
|                    |            |                              | 48                                      | 1-54       | 1-54       | 1-82   | 37-0           | 27-8 | 18-7 |                    |            |                              |                                         |            |            |        |                |      |      |          |  |  |          |  |  |
| 0-56               | I          | 46                           | 50                                      | 1-66       | 1-66       | 1-97   | 38-5           | 29-0 | 19-5 | 0-74               | V          | 29                           | 18                                      | 0-305      | 0-299      | 0-338  | 15-7           | 13-3 | 9-5  |          |  |  |          |  |  |
|                    |            |                              | 34                                      | 0-740      | 0-737      | 0-886  | 25-7           | 19-0 | 12-7 |                    |            |                              | 19                                      | 341        | 336        | 378    | 16-5           | 14-1 | 10-0 |          |  |  |          |  |  |
|                    |            |                              | 36                                      | 829        | 826        | 992    | 27-2           | 20-2 | 13-4 |                    |            |                              | 20                                      | 378        | 373        | 418    | 17-4           | 14-8 | 10-5 |          |  |  |          |  |  |
|                    |            |                              | 38                                      | 921        | 918        | 1-10   | 28-7           | 21-3 | 14-2 |                    |            |                              | 22                                      | 464        | 459        | 514    | 19-2           | 16-3 | 11-6 |          |  |  |          |  |  |
|                    |            |                              | 40                                      | 1-02       | 1-02       | 1-23   | 30-2           | 22-4 | 14-9 |                    |            |                              | 24                                      | 544        | 540        | 602    | 20-9           | 17-8 | 12-6 |          |  |  |          |  |  |
|                    |            |                              | 42                                      | 1-12       | 1-12       | 1-35   | 31-8           | 23-5 | 15-7 |                    |            |                              | 26                                      | 638        | 634        | 706    | 22-6           | 19-2 | 13-7 |          |  |  |          |  |  |
|                    |            |                              | 44                                      | 1-24       | 1-24       | 1-48   | 33-3           | 24-6 | 16-4 |                    |            |                              | 28                                      | 737        | 733        | 816    | 24-4           | 20-7 | 14-8 |          |  |  |          |  |  |
|                    |            |                              | 46                                      | 1-35       | 1-35       | 1-62   | 34-8           | 25-8 | 17-2 |                    |            |                              | 30                                      | 852        | 848        | 944    | 26-1           | 22-2 | 15-8 |          |  |  |          |  |  |
|                    |            |                              | 48                                      | 1-47       | 1-47       | 1-76   | 36-3           | 26-9 | 17-9 |                    |            |                              | 32                                      | 967        | 964        | 1-07   | 27-9           | 23-7 | 16-9 |          |  |  |          |  |  |
|                    |            |                              | 50                                      | 1-59       | 1-59       | 1-91   | 37-8           | 28-0 | 18-6 |                    |            |                              |                                         |            |            |        |                |      |      |          |  |  |          |  |  |
| 0-54               | I          | 49                           | 52                                      | 1-72       | 1-72       | 2-06   | 39-3           | 29-1 | 19-4 | 0-72               | IV         | 31                           | 18                                      | 0-295      | 0-289      | 0-329  | 15-4           | 13-0 | 9-2  |          |  |  |          |  |  |
|                    |            |                              | 54                                      | 1-86       | 1-86       | 2-23   | 40-8           | 30-2 | 20-1 |                    |            |                              | 19                                      | 330        | 324        | 368    | 16-3           | 13-7 | 9-7  |          |  |  |          |  |  |
|                    |            |                              | 56                                      | 2-00       | 2-00       | 2-40   | 42-3           | 31-4 | 20-9 |                    |            |                              | 20                                      | 365        | 360        | 406    | 17-2           | 14-4 | 10-2 |          |  |  |          |  |  |
|                    |            |                              | 40                                      | 0-978      | 0-975      | 1-18   | 29-7           | 21-6 | 14-2 |                    |            |                              | 22                                      | 449        | 444        | 508    | 18-9           | 15-3 | 11-2 |          |  |  |          |  |  |
|                    |            |                              | 42                                      | 1-07       | 1-07       | 1-30   | 31-2           | 22-7 | 14-9 |                    |            |                              | 24                                      | 526        | 521        | 585    | 20-5           | 17-3 | 12-2 |          |  |  |          |  |  |
|                    |            |                              | 44                                      | 1-18       | 1-18       | 1-43   | 32-6           | 23-8 | 15-6 |                    |            |                              | 26                                      | 617        | 613        | 687    | 22-3           | 18-7 | 13-3 |          |  |  |          |  |  |
|                    |            |                              | 46                                      | 1-29       | 1-29       | 1-56   | 34-1           | 24-8 | 16-3 |                    |            |                              | 28                                      | 713        | 709        | 794    | 24-0           | 20-2 | 14-3 |          |  |  |          |  |  |
|                    |            |                              | 48                                      | 1-40       | 1-40       | 1-70   | 35-7           | 25-9 | 17-0 |                    |            |                              | 30                                      | 825        | 821        | 918    | 25-7           | 21-6 | 15-3 |          |  |  |          |  |  |
|                    |            |                              | 50                                      | 1-52       | 1-52       | 1-84   | 37-1           | 27-0 | 17-7 |                    |            |                              | 32                                      | 936        | 933        | 1-04   | 27-5           | 23-0 | 16-3 |          |  |  |          |  |  |
|                    |            |                              | 52                                      | 1-64       | 1-64       | 1-99   | 38-6           | 28-0 | 18-5 |                    |            |                              | 34                                      | 1-06       | 1-06       | 1-18   | 29-2           | 24-5 | 17-3 |          |  |  |          |  |  |
| 0-52               | I          | 51                           | 54                                      | 1-78       | 1-78       | 2-15   | 40-1           | 29-2 | 19-2 | 0-70               | V          | 34                           | 19                                      | 0-319      | 0-313      | 0-357  | 16-0           | 13-3 | 9-4  |          |  |  |          |  |  |
|                    |            |                              | 56                                      | 1-91       | 1-91       | 2-31   | 41-6           | 30-2 | 19-9 |                    |            |                              | 20                                      | 352        | 347        | 395    | 16-9           | 14-0 | 9-9  |          |  |  |          |  |  |
|                    |            |                              | 58                                      | 2-05       | 2-05       | 2-48   | 43-1           | 31-3 | 20-6 |                    |            |                              | 22                                      | 433        | 428        | 486    | 18-6           | 15-4 | 10-8 |          |  |  |          |  |  |
|                    |            |                              | 60                                      | 2-20       | 2-20       | 2-66   | 44-6           | 32-4 | 21-3 |                    |            |                              | 24                                      | 507        | 502        | 569    | 20-3           | 16-8 | 11-8 |          |  |  |          |  |  |
|                    |            |                              | 62                                      | 2-34       | 2-34       | 2-83   | 46-1           | 33-5 | 22-0 |                    |            |                              | 26                                      | 595        | 591        | 667    | 22-0           | 18-2 | 12-8 |          |  |  |          |  |  |
|                    |            |                              | 48                                      | 1-34       | 1-34       | 1-63   | 35-0           | 25-0 | 16-2 |                    |            |                              | 28                                      | 688        | 684        | 771    | 23-7           | 19-6 | 13-8 |          |  |  |          |  |  |
|                    |            |                              | 50                                      | 1-45       | 1-45       | 1-77   | 36-6           | 26-0 | 16-9 |                    |            |                              | 30                                      | 795        | 792        | 891    | 25-3           | 21-0 | 14-8 |          |  |  |          |  |  |
|                    |            |                              | 52                                      | 1-56       | 1-56       | 1-91   | 38-0           | 27-0 | 17-6 |                    |            |                              | 32                                      | 903        | 900        | 1-01   | 27-0           | 22-4 | 15-8 |          |  |  |          |  |  |
|                    |            |                              | 54                                      | 1-69       | 1-69       | 2-07   | 39-5           | 28-1 | 18-3 |                    |            |                              | 34                                      | 1-02       | 1-02       | 1-14   | 28-7           | 23-8 | 16-8 |          |  |  |          |  |  |
|                    |            |                              | 56                                      | 1-82       | 1-82       | 2-22   | 40-9           | 29-1 | 18-9 |                    |            |                              | 36                                      | 1-15       | 1-15       | 1-28   | 30-4           | 25-2 | 17-7 |          |  |  |          |  |  |
| 0-68               | IV         | 35                           | 58                                      | 1-95       | 1-95       | 2-39   | 42-4           | 30-2 | 19-6 | 0-68               | IV         | 35                           | 20                                      | 0-340      | 0-335      | 0-384  | 16-6           | 13-6 | 9-5  |          |  |  |          |  |  |
|                    |            |                              | 60                                      | 2-09       | 2-09       | 2-56   | 43-9           | 31-2 | 20-3 |                    |            |                              | 22                                      | 418        | 413        | 472    | 18-3           | 15-0 | 10-5 |          |  |  |          |  |  |
|                    |            |                              | 62                                      | 2-23       | 2-23       | 2-73   | 45-3           | 32-2 | 21-0 |                    |            |                              | 24                                      | 490        | 485        | 553    | 20-0           | 16-3 | 11-4 |          |  |  |          |  |  |
|                    |            |                              | 64                                      | 2-38       | 2-38       | 2-91   | 46-8           | 33-3 | 21-6 |                    |            |                              | 26                                      | 574        | 570        | 649    | 21-6           | 17-7 | 12-4 |          |  |  |          |  |  |
|                    |            |                              | 66                                      | 2-53       | 2-53       | 3-09   | 48-2           | 34-3 | 22-3 |                    |            |                              | 28                                      | 664        | 660        | 750    | 23-3           | 19-0 | 13-4 |          |  |  |          |  |  |
|                    |            |                              | 68                                      | 2-68       | 2-68       | 3-28   | 49-7           | 35-4 | 23-0 |                    |            |                              | 30                                      | 768        | 764        | 867    | 25-0           | 20-4 | 14-3 |          |  |  |          |  |  |
|                    |            |                              | 70                                      | 2-84       | 2-84       | 3-48   | 51-2           | 36-4 | 23-7 |                    |            |                              | 32                                      | 871        | 868        | 984    | 26-6           | 21-8 | 15-3 |          |  |  |          |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      |                    |            |                              | 34                                      | 984        | 981        | 1-11   | 28-3           | 23-1 | 16-2 |          |  |  |          |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      |                    |            |                              | 36                                      | 1-11       | 1-11       | 1-25   | 30-0           | 24-5 | 17-2 |          |  |  |          |  |  |

Höhe 23 m.

Höhe 23 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      |          |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|----------|--|--|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |          |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      | der Höhe |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      | cm       |  |  |
| 0-66               | IV         | 37                           | 22                                      | 0-402      | 0-397      | 0-457  | 18-0           | 14-5 | 10-1 |          |  |  |
|                    |            |                              | 24                                      | 471        | 466        | 537    | 19-7           | 15-8 | 11-6 |          |  |  |
|                    |            |                              | 26                                      | 553        | 549        | 630    | 21-3           | 17-2 | 11-9 |          |  |  |
|                    |            |                              | 28                                      | 643        | 639        | 733    | 22-9           | 18-5 | 12-8 |          |  |  |
|                    |            |                              | 30                                      | 738        | 734        | 841    | 24-6           | 19-8 | 13-7 |          |  |  |
|                    |            |                              | 32                                      | 838        | 835        | 955    | 26-2           | 21-1 | 14-7 |          |  |  |
|                    |            |                              | 34                                      | 946        | 943        | 1-08   | 27-8           | 22-4 | 15-6 |          |  |  |
|                    |            |                              | 36                                      | 1-06       | 1-06       | 1-21   | 29-5           | 23-8 | 16-5 |          |  |  |
|                    |            |                              | 38                                      | 1-18       | 1-18       | 1-34   | 31-1           | 25-1 | 17-4 |          |  |  |
|                    |            |                              | 40                                      | 1-31       | 1-31       | 1-50   | 32-8           | 26-4 | 18-3 |          |  |  |
| 0-64               | IV         | 39                           | 22                                      | 0-387      | 0-382      | 0-444  | 17-7           | 14-1 | 9-7  |          |  |  |
|                    |            |                              | 24                                      | 453        | 449        | 520    | 19-3           | 15-4 | 10-6 |          |  |  |
|                    |            |                              | 26                                      | 531        | 527        | 610    | 21-0           | 16-6 | 11-5 |          |  |  |
|                    |            |                              | 28                                      | 619        | 615        | 711    | 22-6           | 17-9 | 12-4 |          |  |  |
|                    |            |                              | 30                                      | 711        | 707        | 814    | 24-2           | 19-2 | 13-3 |          |  |  |
|                    |            |                              | 32                                      | 806        | 803        | 925    | 25-8           | 20-5 | 14-1 |          |  |  |
|                    |            |                              | 34                                      | 911        | 908        | 1-04   | 27-4           | 21-8 | 15-0 |          |  |  |
|                    |            |                              | 36                                      | 1-02       | 1-02       | 1-17   | 29-0           | 23-0 | 15-9 |          |  |  |
|                    |            |                              | 38                                      | 1-13       | 1-13       | 1-30   | 30-6           | 24-3 | 16-8 |          |  |  |
|                    |            |                              | 40                                      | 1-26       | 1-26       | 1-45   | 32-2           | 25-6 | 17-7 |          |  |  |
| 0-62               | III        | 41                           | 24                                      | 0-437      | 0-432      | 0-503  | 19-0           | 14-9 | 10-2 |          |  |  |
|                    |            |                              | 26                                      | 512        | 508        | 590    | 20-6           | 16-5 | 11-0 |          |  |  |
|                    |            |                              | 28                                      | 596        | 592        | 687    | 22-2           | 17-4 | 11-9 |          |  |  |
|                    |            |                              | 30                                      | 685        | 681        | 789    | 23-8           | 18-6 | 12-7 |          |  |  |
|                    |            |                              | 32                                      | 777        | 774        | 895    | 25-4           | 19-8 | 13-6 |          |  |  |
|                    |            |                              | 34                                      | 878        | 875        | 1-01   | 27-0           | 21-1 | 14-4 |          |  |  |
|                    |            |                              | 36                                      | 987        | 984        | 1-14   | 28-5           | 22-3 | 15-3 |          |  |  |
|                    |            |                              | 38                                      | 1-09       | 1-09       | 1-26   | 30-1           | 23-6 | 16-1 |          |  |  |
|                    |            |                              | 40                                      | 1-21       | 1-21       | 1-40   | 31-7           | 24-8 | 17-0 |          |  |  |
|                    |            |                              | 42                                      | 1-34       | 1-34       | 1-54   | 33-3           | 26-0 | 17-8 |          |  |  |
| 0-60               | III        | 42                           | 24                                      | 0-492      | 0-488      | 0-572  | 20-3           | 15-6 | 10-6 |          |  |  |
|                    |            |                              | 26                                      | 572        | 568        | 666    | 21-8           | 16-8 | 11-4 |          |  |  |
|                    |            |                              | 28                                      | 657        | 653        | 764    | 23-4           | 18-0 | 12-2 |          |  |  |
|                    |            |                              | 30                                      | 745        | 742        | 867    | 24-9           | 19-2 | 13-1 |          |  |  |
|                    |            |                              | 32                                      | 842        | 839        | 980    | 26-5           | 20-4 | 13-9 |          |  |  |
|                    |            |                              | 34                                      | 947        | 944        | 1-10   | 28-1           | 21-6 | 14-7 |          |  |  |
|                    |            |                              | 36                                      | 1-05       | 1-05       | 1-22   | 29-6           | 22-8 | 15-5 |          |  |  |
|                    |            |                              | 38                                      | 1-17       | 1-17       | 1-36   | 31-2           | 24-0 | 16-3 |          |  |  |
|                    |            |                              | 40                                      | 1-28       | 1-28       | 1-49   | 32-8           | 25-2 | 17-1 |          |  |  |
|                    |            |                              | 42                                      | 1-41       | 1-41       | 1-64   | 34-3           | 26-4 | 18-0 |          |  |  |
| 0-58               | III        | 44                           | 22                                      | 0-712      | 0-709      | 0-839  | 24-5           | 18-6 | 12-5 |          |  |  |
|                    |            |                              | 24                                      | 804        | 801        | 948    | 26-1           | 19-7 | 13-3 |          |  |  |
|                    |            |                              | 26                                      | 905        | 902        | 1-07   | 27-6           | 20-9 | 14-1 |          |  |  |
|                    |            |                              | 28                                      | 1-00       | 1-00       | 1-18   | 29-1           | 22-0 | 14-9 |          |  |  |
|                    |            |                              | 30                                      | 1-12       | 1-12       | 1-32   | 30-7           | 23-2 | 15-7 |          |  |  |
|                    |            |                              | 32                                      | 1-22       | 1-22       | 1-44   | 32-2           | 24-4 | 16-5 |          |  |  |
|                    |            |                              | 34                                      | 1-35       | 1-35       | 1-59   | 33-7           | 25-5 | 17-2 |          |  |  |
|                    |            |                              | 36                                      | 1-47       | 1-47       | 1-73   | 35-3           | 26-7 | 18-0 |          |  |  |
|                    |            |                              | 38                                      | 1-60       | 1-60       | 1-89   | 36-8           | 27-8 | 18-8 |          |  |  |
|                    |            |                              | 40                                      | 1-74       | 1-74       | 2-05   | 38-3           | 29-0 | 19-6 |          |  |  |
| 0-56               | II         | 46                           | 22                                      | 0-769      | 0-763      | 0-915  | 25-6           | 19-6 | 12-7 |          |  |  |
|                    |            |                              | 24                                      | 865        | 862        | 1-03   | 27-1           | 20-2 | 13-5 |          |  |  |
|                    |            |                              | 26                                      | 957        | 954        | 1-14   | 28-7           | 21-3 | 14-2 |          |  |  |
|                    |            |                              | 28                                      | 1-07       | 1-07       | 1-27   | 30-2           | 22-4 | 15-0 |          |  |  |
|                    |            |                              | 30                                      | 1-17       | 1-17       | 1-39   | 31-7           | 23-5 | 15-7 |          |  |  |
|                    |            |                              | 32                                      | 1-29       | 1-29       | 1-53   | 33-2           | 24-6 | 16-5 |          |  |  |
|                    |            |                              | 34                                      | 1-40       | 1-40       | 1-67   | 34-7           | 25-8 | 17-2 |          |  |  |
|                    |            |                              | 36                                      | 1-53       | 1-53       | 1-82   | 36-2           | 26-9 | 18-0 |          |  |  |
|                    |            |                              | 38                                      | 1-66       | 1-66       | 1-97   | 37-7           | 28-0 | 18-7 |          |  |  |
|                    |            |                              | 40                                      | 1-79       | 1-79       | 2-14   | 39-2           | 29-1 | 19-4 |          |  |  |
| 0-54               | II         | 48                           | 24                                      | 1-94       | 1-94       | 2-31   | 40-7           | 30-2 | 20-2 |          |  |  |
|                    |            |                              | 26                                      | 2-08       | 2-08       | 2-48   | 42-2           | 31-4 | 20-9 |          |  |  |
|                    |            |                              | 28                                      | 1-02       | 1-02       | 1-23   | 29-7           | 21-6 | 14-2 |          |  |  |
|                    |            |                              | 30                                      | 1-12       | 1-12       | 1-34   | 31-2           | 22-7 | 15-0 |          |  |  |
|                    |            |                              | 32                                      | 1-23       | 1-23       | 1-48   | 32-6           | 23-8 | 15-7 |          |  |  |
|                    |            |                              | 34                                      | 1-34       | 1-34       | 1-61   | 34-1           | 24-8 | 16-4 |          |  |  |
|                    |            |                              | 36                                      | 1-46       | 1-46       | 1-76   | 35-6           | 25-9 | 17-1 |          |  |  |
|                    |            |                              | 38                                      | 1-58       | 1-58       | 1-91   | 37-1           | 27-0 | 17-8 |          |  |  |
|                    |            |                              | 40                                      | 1-71       | 1-71       | 2-06   | 38-6           | 28-1 | 18-5 |          |  |  |
|                    |            |                              | 42                                      | 1-85       | 1-85       | 2-23   | 40-0           | 29-2 | 19-2 |          |  |  |
| 0-52               | II         | 50                           | 24                                      | 1-99       | 1-99       | 2-39   | 41-6           | 30-2 | 19-9 |          |  |  |
|                    |            |                              | 26                                      | 2-13       | 2-13       | 2-57   | 43-0           | 31-3 | 20-6 |          |  |  |
|                    |            |                              | 28                                      | 2-28       | 2-28       | 2-75   | 44-5           | 32-4 | 21-4 |          |  |  |
|                    |            |                              | 30                                      | 2-44       | 2-44       | 2-94   | 46-0           | 33-5 | 22-1 |          |  |  |
|                    |            |                              | 32                                      | 1-39       | 1-39       | 1-69   | 35-0           | 25-0 | 16-3 |          |  |  |
|                    |            |                              | 34                                      | 1-51       | 1-51       | 1-84   | 36-4           | 26-0 | 16-9 |          |  |  |
|                    |            |                              | 36                                      | 1-63       | 1-63       | 1-99   | 37-9           | 27-0 | 17-6 |          |  |  |
|                    |            |                              | 38                                      | 1-76       | 1-76       | 2-14   | 39-4           | 28-0 | 18-3 |          |  |  |
|                    |            |                              | 40                                      | 1-89       | 1-89       | 2-30   | 40-8           | 29-1 | 19-0 |          |  |  |
|                    |            |                              | 42                                      | 2-03       | 2-03       | 2-47   | 42-3           | 30-2 | 19-7 |          |  |  |
| 0-60               | III        | 42                           | 24                                      | 2-17       | 2-17       | 2-65   | 43-7           | 31-2 | 20-3 |          |  |  |
|                    |            |                              | 26                                      | 2-32       | 2-32       | 2-83   | 45-2           | 32-2 | 21-0 |          |  |  |
|                    |            |                              | 28                                      | 2-47       | 2-47       | 3-02   | 46-7           | 33-3 | 21-7 |          |  |  |
|                    |            |                              | 30                                      | 2-63       | 2-63       | 3-20   | 48-1           | 34-3 | 22-4 |          |  |  |
|                    |            |                              | 32                                      | 2-79       | 2-79       | 3-40   | 49-6           | 35-4 | 23-1 |          |  |  |
|                    |            |                              | 34                                      | 2-96       | 2-96       | 3-61   | 51-0           | 36-4 | 23-7 |          |  |  |
|                    |            |                              | 36                                      | 1-39       | 1-39       | 1-69   | 35-0           | 25-0 | 16-3 |          |  |  |
|                    |            |                              | 38                                      | 1-51       | 1-51       | 1-84   | 36-4           | 26-0 | 16-9 |          |  |  |
|                    |            |                              | 40                                      | 1-63       | 1-63       | 1-99   | 37-9           | 27-0 | 17-6 |          |  |  |
|                    |            |                              | 42                                      | 1-76       | 1-76       | 2-14   | 39-4           | 28-0 | 18-3 |          |  |  |

## Höhe 24 m.

## Höhe 24 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |       |    |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|-------|----|
|                    |            |                              |                                         | Schafftes  | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |       |    |
|                    |            |                              |                                         |            |            |        |                |               |               | cm       | $m^3$ | cm |
| 0-76               | V          | 28                           | 17                                      | 0-294      | 0-287      | 0-323  | 15-0           | 12-9          | 9-2           |          |       |    |
|                    |            |                              | 18                                      | 329        | 322        | 361    | 15-9           | 13-7          | 9-8           |          |       |    |
|                    |            |                              | 19                                      | 368        | 362        | 404    | 16-8           | 14-4          | 10-4          |          |       |    |
|                    |            |                              | 20                                      | 407        | 402        | 446    | 17-7           | 15-2          | 10-9          |          |       |    |
|                    |            |                              | 22                                      | 500        | 495        | 548    | 19-4           | 16-7          | 12-0          |          |       |    |
|                    |            |                              | 24                                      | 583        | 578        | 639    | 21-2           | 18-2          | 13-1          |          |       |    |
|                    |            |                              | 26                                      | 686        | 682        | 752    | 23-0           | 19-8          | 14-2          |          |       |    |
|                    |            |                              | 28                                      | 799        | 795        | 876    | 24-7           | 21-3          | 15-3          |          |       |    |
|                    |            |                              | 30                                      | 918        | 914        | 1-00   | 26-5           | 22-8          | 16-4          |          |       |    |
| 0-74               | V          | 29                           | 18                                      | 0-318      | 0-311      | 0-351  | 15-7           | 13-3          | 9-5           |          |       |    |
|                    |            |                              | 19                                      | 356        | 350        | 393    | 16-5           | 14-1          | 10-0          |          |       |    |
|                    |            |                              | 20                                      | 393        | 388        | 434    | 17-4           | 14-8          | 10-6          |          |       |    |
|                    |            |                              | 22                                      | 483        | 478        | 533    | 19-1           | 16-3          | 11-6          |          |       |    |
|                    |            |                              | 24                                      | 564        | 559        | 622    | 20-9           | 17-8          | 12-7          |          |       |    |
|                    |            |                              | 26                                      | 663        | 659        | 732    | 22-6           | 19-2          | 13-7          |          |       |    |
|                    |            |                              | 28                                      | 773        | 769        | 852    | 24-4           | 20-7          | 14-8          |          |       |    |
|                    |            |                              | 30                                      | 887        | 884        | 979    | 26-1           | 22-2          | 15-8          |          |       |    |
|                    |            |                              | 32                                      | 1-00       | 1-00       | 1-11   | 27-8           | 23-7          | 16-9          |          |       |    |
| 0-72               | V          | 31                           | 19                                      | 0-344      | 0-338      | 0-382  | 16-3           | 13-7          | 9-7           |          |       |    |
|                    |            |                              | 20                                      | 381        | 376        | 422    | 17-1           | 14-4          | 10-2          |          |       |    |
|                    |            |                              | 22                                      | 468        | 463        | 519    | 18-9           | 15-8          | 11-2          |          |       |    |
|                    |            |                              | 24                                      | 545        | 540        | 605    | 20-6           | 17-3          | 12-3          |          |       |    |
|                    |            |                              | 26                                      | 641        | 638        | 711    | 22-3           | 18-7          | 13-3          |          |       |    |
|                    |            |                              | 28                                      | 747        | 743        | 829    | 24-0           | 20-2          | 14-3          |          |       |    |
|                    |            |                              | 30                                      | 858        | 854        | 952    | 25-7           | 21-6          | 15-3          |          |       |    |
|                    |            |                              | 32                                      | 969        | 966        | 1-08   | 27-4           | 23-0          | 16-4          |          |       |    |
|                    |            |                              | 34                                      | 1-10       | 1-07       | 1-22   | 29-1           | 24-5          | 17-4          |          |       |    |
| 0-70               | V          | 33                           | 19                                      | 0-332      | 0-326      | 0-371  | 16-0           | 13-3          | 9-4           |          |       |    |
|                    |            |                              | 20                                      | 367        | 362        | 410    | 16-9           | 14-0          | 9-9           |          |       |    |
|                    |            |                              | 22                                      | 451        | 446        | 504    | 18-6           | 15-4          | 10-9          |          |       |    |
|                    |            |                              | 24                                      | 525        | 520        | 588    | 20-3           | 16-8          | 11-9          |          |       |    |
|                    |            |                              | 26                                      | 618        | 614        | 691    | 21-9           | 18-2          | 12-8          |          |       |    |
|                    |            |                              | 28                                      | 773        | 769        | 805    | 23-6           | 19-6          | 13-8          |          |       |    |
|                    |            |                              | 30                                      | 888        | 884        | 925    | 25-3           | 21-0          | 14-8          |          |       |    |
|                    |            |                              | 32                                      | 935        | 931        | 1-04   | 27-0           | 22-4          | 15-8          |          |       |    |
|                    |            |                              | 34                                      | 1-06       | 1-06       | 1-19   | 28-7           | 23-8          | 16-8          |          |       |    |
| 0-68               | IV         | 35                           | 36                                      | 1-19       | 1-19       | 1-33   | 30-4           | 25-2          | 17-8          |          |       |    |
|                    |            |                              | 20                                      | 0-354      | 0-348      | 0-399  | 16-6           | 13-6          | 9-6           |          |       |    |
|                    |            |                              | 22                                      | 435        | 430        | 490    | 18-3           | 15-0          | 10-5          |          |       |    |
|                    |            |                              | 24                                      | 508        | 503        | 571    | 19-9           | 16-3          | 11-5          |          |       |    |
|                    |            |                              | 26                                      | 597        | 593        | 672    | 21-6           | 17-7          | 12-4          |          |       |    |
|                    |            |                              | 28                                      | 696        | 692        | 783    | 23-2           | 19-0          | 13-4          |          |       |    |
|                    |            |                              | 30                                      | 799        | 795        | 899    | 24-9           | 20-4          | 14-3          |          |       |    |
|                    |            |                              | 32                                      | 902        | 898        | 1-01   | 26-6           | 21-8          | 15-3          |          |       |    |
|                    |            |                              | 34                                      | 1-02       | 1-02       | 1-15   | 28-2           | 23-1          | 16-3          |          |       |    |
| 0-66               | IV         | 37                           | 36                                      | 1-15       | 1-15       | 1-30   | 29-9           | 24-5          | 17-3          |          |       |    |
|                    |            |                              | 38                                      | 1-27       | 1-27       | 1-44   | 31-5           | 25-8          | 18-2          |          |       |    |
|                    |            |                              | 22                                      | 0-419      | 0-414      | 0-475  | 18-0           | 14-5          | 10-1          |          |       |    |
|                    |            |                              | 24                                      | 489        | 484        | 554    | 19-6           | 15-8          | 11-0          |          |       |    |
|                    |            |                              | 26                                      | 575        | 571        | 652    | 21-2           | 17-2          | 11-9          |          |       |    |
|                    |            |                              | 28                                      | 670        | 666        | 759    | 22-9           | 18-5          | 12-9          |          |       |    |
|                    |            |                              | 30                                      | 770        | 766        | 872    | 24-5           | 19-8          | 13-8          |          |       |    |
|                    |            |                              | 32                                      | 870        | 866        | 985    | 26-1           | 21-1          | 14-7          |          |       |    |
|                    |            |                              | 34                                      | 987        | 984        | 1-12   | 27-8           | 22-4          | 15-6          |          |       |    |
| 0-64               | IV         | 38                           | 36                                      | 1-11       | 1-11       | 1-26   | 29-4           | 23-8          | 16-5          |          |       |    |
|                    |            |                              | 38                                      | 1-23       | 1-23       | 1-39   | 31-0           | 25-1          | 17-4          |          |       |    |
|                    |            |                              | 40                                      | 1-37       | 1-37       | 1-55   | 32-7           | 26-4          | 18-4          |          |       |    |
|                    |            |                              | 42                                      | 1-50       | 1-50       | 1-70   | 34-3           | 27-7          | 19-3          |          |       |    |
|                    |            |                              | 24                                      | 0-469      | 0-464      | 0-537  | 19-3           | 15-4          | 10-6          |          |       |    |
|                    |            |                              | 26                                      | 552        | 548        | 631    | 20-9           | 16-6          | 11-5          |          |       |    |
|                    |            |                              | 28                                      | 644        | 640        | 736    | 22-5           | 17-9          | 12-4          |          |       |    |
|                    |            |                              | 30                                      | 739        | 735        | 845    | 24-1           | 19-2          | 13-3          |          |       |    |
|                    |            |                              | 32                                      | 835        | 830        | 954    | 25-7           | 20-5          | 14-2          |          |       |    |
| 0-62               | III        | 40                           | 34                                      | 948        | 945        | 1-08   | 27-3           | 21-8          | 15-0          |          |       |    |
|                    |            |                              | 36                                      | 1-07       | 1-07       | 1-22   | 28-9           | 23-0          | 15-9          |          |       |    |
|                    |            |                              | 38                                      | 1-18       | 1-18       | 1-35   | 30-6           | 24-3          | 16-8          |          |       |    |
|                    |            |                              | 40                                      | 1-31       | 1-31       | 1-50   | 32-2           | 25-6          | 17-7          |          |       |    |
|                    |            |                              | 42                                      | 1-44       | 1-44       | 1-65   | 33-8           | 26-9          | 18-6          |          |       |    |
|                    |            |                              | 44                                      | 1-59       | 1-59       | 1-81   | 35-4           | 28-2          | 19-5          |          |       |    |
|                    |            |                              | 46                                      | 1-73       | 1-73       | 1-98   | 37-0           | 29-4          | 20-4          |          |       |    |
|                    |            |                              | 26                                      | 0-532      | 0-528      | 0-611  | 20-6           | 16-5          | 11-1          |          |       |    |
|                    |            |                              | 28                                      | 620        | 616        | 712    | 22-1           | 17-4          | 11-9          |          |       |    |
| 0-60               | III        | 42                           | 30                                      | 712        | 708        | 818    | 23-7           | 18-6          | 12-8          |          |       |    |
|                    |            |                              | 32                                      | 804        | 800        | 923    | 25-3           | 19-8          | 13-6          |          |       |    |
|                    |            |                              | 34                                      | 913        | 910        | 1-05   | 26-9           | 21-0          | 14-5          |          |       |    |
|                    |            |                              | 36                                      | 1-03       | 1-03       | 1-18   | 28-5           | 22-3          | 15-3          |          |       |    |
|                    |            |                              | 38                                      | 1-13       | 1-13       | 1-30   | 30-1           | 23-6          | 16-2          |          |       |    |
|                    |            |                              | 40                                      | 1-27       | 1-27       | 1-45   | 31-6           | 24-8          | 17-0          |          |       |    |
|                    |            |                              | 42                                      | 1-39       | 1-39       | 1-60   | 33-2           | 26-0          | 17-9          |          |       |    |
|                    |            |                              | 44                                      | 1-53       | 1-53       | 1-76   | 34-8           | 27-3          | 18-7          |          |       |    |
|                    |            |                              | 46                                      | 1-67       | 1-67       | 1-91   | 36-4           | 28-5          | 19-6          |          |       |    |
| 0-58               | III        | 44                           | 48                                      | 1-82       | 1-82       | 2-09   | 38-0           | 29-8          | 20-4          |          |       |    |
|                    |            |                              | 28                                      | 0-595      | 0-591      | 0-689  | 21-8           | 16-8          | 11-5          |          |       |    |
|                    |            |                              | 30                                      | 683        | 679        | 792    | 23-3           | 18-0          | 12-3          |          |       |    |
|                    |            |                              | 32                                      | 772        | 768        | 895    | 24-9           | 19-2          | 13-1          |          |       |    |
|                    |            |                              | 34                                      | 876        | 873        | 1-02   | 26-5           | 20-4          | 13-9          |          |       |    |
|                    |            |                              | 36                                      | 985        | 982        | 1-14   | 28-0           | 21-6          | 14-8          |          |       |    |
|                    |            |                              | 38                                      | 1-09       | 1-09       | 1-26   | 29-6           | 22-8          | 15-6          |          |       |    |
|                    |            |                              | 40                                      | 1-21       | 1-21       | 1-41   | 31-1           | 24-0          | 16-4          |          |       |    |
|                    |            |                              | 42                                      | 1-33       | 1-33       | 1-55   | 32-7           | 25-2          | 17-2          |          |       |    |
| 0-56               | III        | 46                           | 44                                      | 1-47       | 1-47       | 1-70   | 34-2           | 26-4          | 18-0          |          |       |    |
|                    |            |                              | 46                                      | 1-60       | 1-60       | 1-86   | 35-8           | 27-6          | 18-9          |          |       |    |
|                    |            |                              | 48                                      | 1-74       | 1-74       | 2-02   | 37-3           | 28-8          | 19-7          |          |       |    |
|                    |            |                              | 50                                      | 1-89       | 1-89       | 2-19   | 38-9           | 30-0          | 20-5          |          |       |    |

## Höhe 24 m.

## Höhe 25 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |       |       |          |      |      |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|-------|-------|----------|------|------|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2   | 3/4   |          |      |      |
|                    |            |                              |                                         |            |            |        |                |       |       | der Höhe |      |      |
|                    |            |                              |                                         |            |            |        |                |       |       | cm       |      |      |
| 0.58               | III        | 43                           | 34                                      | 0.835      | 0.832      | 0.981  | 26.0           | 19.7  | 13.4  |          |      |      |
|                    |            |                              | 36                                      | 938        | 935        | 1.10   | 27.5           | 20.9  | 14.1  |          |      |      |
|                    |            |                              | 38                                      | 1.04       | 1.04       | 1.22   | 29.1           | 22.0  | 14.9  |          |      |      |
|                    |            |                              | 40                                      | 1.16       | 1.16       | 1.36   | 30.6           | 23.2  | 15.7  |          |      |      |
|                    |            |                              | 42                                      | 1.27       | 1.27       | 1.49   | 32.1           | 24.4  | 16.5  |          |      |      |
|                    |            |                              | 44                                      | 1.40       | 1.40       | 1.64   | 33.7           | 25.9  | 17.3  |          |      |      |
|                    |            |                              | 46                                      | 1.52       | 1.52       | 1.79   | 35.2           | 26.7  | 18.1  |          |      |      |
|                    |            |                              | 48                                      | 1.66       | 1.66       | 1.95   | 36.7           | 27.8  | 18.9  |          |      |      |
|                    |            |                              | 50                                      | 1.80       | 1.80       | 2.11   | 38.2           | 29.0  | 19.6  |          |      |      |
|                    |            |                              | 52                                      | 1.95       | 1.95       | 2.29   | 39.8           | 30.2  | 20.4  |          |      |      |
|                    |            |                              | 54                                      | 2.11       | 2.11       | 2.48   | 41.3           | 31.3  | 21.2  |          |      |      |
| 0.56               | II         | 45                           | 36                                      | 0.899      | 0.896      | 1.06   | 27.1           | 20.2  | 13.5  |          |      |      |
|                    |            |                              | 38                                      | 995        | 992        | 1.18   | 28.6           | 21.3  | 14.3  |          |      |      |
|                    |            |                              | 40                                      | 1.11       | 1.11       | 1.31   | 30.1           | 22.4  | 15.0  |          |      |      |
|                    |            |                              | 42                                      | 1.22       | 1.22       | 1.44   | 31.6           | 23.5  | 15.8  |          |      |      |
|                    |            |                              | 44                                      | 1.34       | 1.34       | 1.59   | 33.1           | 24.6  | 16.5  |          |      |      |
|                    |            |                              | 46                                      | 1.46       | 1.46       | 1.73   | 34.6           | 25.8  | 17.3  |          |      |      |
|                    |            |                              | 48                                      | 1.59       | 1.59       | 1.89   | 36.1           | 26.9  | 18.0  |          |      |      |
|                    |            |                              | 50                                      | 1.72       | 1.72       | 2.04   | 37.6           | 28.0  | 18.8  |          |      |      |
|                    |            |                              | 52                                      | 1.87       | 1.87       | 2.21   | 39.2           | 29.1  | 19.6  |          |      |      |
|                    |            |                              | 54                                      | 2.01       | 2.01       | 2.39   | 40.7           | 30.2  | 20.3  |          |      |      |
|                    |            |                              | 56                                      | 2.17       | 2.17       | 2.57   | 42.2           | 31.4  | 21.0  |          |      |      |
| 0.54               | II         | 48                           | 42                                      | 1.16       | 1.16       | 1.39   | 31.1           | 22.7  | 15.0  |          |      |      |
|                    |            |                              | 44                                      | 1.28       | 1.28       | 1.53   | 32.6           | 23.2  | 15.8  |          |      |      |
|                    |            |                              | 46                                      | 1.39       | 1.39       | 1.67   | 34.0           | 24.8  | 16.5  |          |      |      |
|                    |            |                              | 48                                      | 1.52       | 1.52       | 1.82   | 35.5           | 25.9  | 17.2  |          |      |      |
|                    |            |                              | 50                                      | 1.64       | 1.64       | 1.97   | 37.0           | 27.0  | 17.9  |          |      |      |
|                    |            |                              | 52                                      | 1.78       | 1.78       | 2.14   | 38.5           | 28.1  | 18.6  |          |      |      |
|                    |            |                              | 54                                      | 1.92       | 1.92       | 2.31   | 40.0           | 29.2  | 19.3  |          |      |      |
|                    |            |                              | 56                                      | 2.06       | 2.06       | 2.48   | 41.4           | 30.7  | 20.0  |          |      |      |
|                    |            |                              | 58                                      | 2.22       | 2.22       | 2.66   | 42.9           | 31.3  | 20.8  |          |      |      |
|                    |            |                              | 60                                      | 2.37       | 2.37       | 2.85   | 44.4           | 32.4  | 21.5  |          |      |      |
|                    |            |                              | 62                                      | 2.54       | 2.54       | 3.04   | 45.9           | 33.5  | 22.2  |          |      |      |
| 0.52               | II         | 49                           | 64                                      | 2.70       | 2.70       | 3.25   | 47.4           | 34.6  | 22.9  |          |      |      |
|                    |            |                              | 50                                      | 1.57       | 1.57       | 1.90   | 36.3           | 26.0  | 17.0  |          |      |      |
|                    |            |                              | 52                                      | 1.69       | 1.69       | 2.06   | 37.8           | 27.0  | 17.8  |          |      |      |
|                    |            |                              | 54                                      | 1.83       | 1.83       | 2.22   | 39.3           | 28.1  | 18.4  |          |      |      |
|                    |            |                              | 56                                      | 1.96       | 1.96       | 2.38   | 40.7           | 29.1  | 19.1  |          |      |      |
|                    |            |                              | 58                                      | 2.11       | 2.11       | 2.56   | 42.2           | 30.2  | 19.8  |          |      |      |
|                    |            |                              | 60                                      | 2.26       | 2.26       | 2.74   | 43.6           | 31.2  | 20.5  |          |      |      |
|                    |            |                              | 62                                      | 2.41       | 2.41       | 2.93   | 45.1           | 32.2  | 21.1  |          |      |      |
|                    |            |                              | 64                                      | 2.57       | 2.57       | 3.12   | 46.5           | 33.3  | 21.9  |          |      |      |
|                    |            |                              | 66                                      | 2.73       | 2.73       | 3.32   | 48.0           | 34.3  | 22.5  |          |      |      |
|                    |            |                              | 68                                      | 2.90       | 2.90       | 3.52   | 49.4           | 35.4  | 23.2  |          |      |      |
| 0.76               | IV         | 27                           | 70                                      | 3.08       | 3.08       | 3.73   | 50.9           | 36.4  | 23.9  |          |      |      |
|                    |            |                              | 72                                      | 3.25       | 3.25       | 3.95   | 52.3           | 37.4  | 24.6  |          |      |      |
|                    |            |                              | 18                                      | 0.342      | 0.335      | 0.373  | 15.8           | 13.7  | 9.8   |          |      |      |
|                    |            |                              | 19                                      | 383        | 376        | 417    | 16.8           | 14.4  | 10.4  |          |      |      |
|                    |            |                              | 20                                      | 423        | 417        | 462    | 17.6           | 15.2  | 10.9  |          |      |      |
|                    |            |                              | 22                                      | 520        | 515        | 567    | 19.4           | 16.7  | 12.0  |          |      |      |
|                    |            |                              | 24                                      | 609        | 604        | 664    | 21.2           | 18.2  | 13.1  |          |      |      |
|                    |            |                              | 26                                      | 717        | 714        | 782    | 22.9           | 19.8  | 14.2  |          |      |      |
|                    |            |                              | 28                                      | 830        | 826        | 906    | 24.7           | 21.3  | 15.3  |          |      |      |
|                    |            |                              | 30                                      | 954        | 950        | 1.04   | 26.5           | 22.8  | 16.4  |          |      |      |
|                    |            |                              | 32                                      | 1.09       | 1.09       | 1.18   | 28.2           | 24.3  | 17.4  |          |      |      |
| 0.74               | V          | 29                           | 19                                      | 0.370      | 0.363      | 0.406  | 16.5           | 14.1  | 10.0  |          |      |      |
|                    |            |                              | 20                                      | 409        | 404        | 449    | 17.4           | 14.8  | 10.6  |          |      |      |
|                    |            |                              | 22                                      | 503        | 498        | 552    | 19.1           | 16.3  | 11.6  |          |      |      |
|                    |            |                              | 24                                      | 589        | 584        | 646    | 20.8           | 17.8  | 12.7  |          |      |      |
|                    |            |                              | 26                                      | 693        | 689        | 761    | 22.6           | 19.2  | 13.8  |          |      |      |
|                    |            |                              | 28                                      | 802        | 798        | 881    | 24.3           | 20.7  | 14.8  |          |      |      |
|                    |            |                              | 30                                      | 923        | 919        | 1.01   | 26.1           | 22.2  | 15.9  |          |      |      |
|                    |            |                              | 32                                      | 1.05       | 1.05       | 1.16   | 27.8           | 23.7  | 16.9  |          |      |      |
|                    |            |                              | 34                                      | 1.18       | 1.18       | 1.30   | 29.5           | 25.2  | 18.0  |          |      |      |
|                    |            |                              | 0.72                                    | V          | 31         | 19     | 0.358          | 0.351 | 0.395 | 16.3     | 13.7 | 9.7  |
|                    |            |                              |                                         |            |            | 20     | 396            | 390   | 436   | 17.1     | 14.4 | 10.2 |
| 22                 | 486        | 481                          |                                         |            |            | 537    | 18.8           | 15.8  | 11.3  |          |      |      |
| 24                 | 570        | 565                          |                                         |            |            | 628    | 20.5           | 17.3  | 12.3  |          |      |      |
| 26                 | 670        | 666                          |                                         |            |            | 739    | 22.3           | 18.7  | 13.3  |          |      |      |
| 28                 | 776        | 772                          |                                         |            |            | 856    | 24.0           | 20.2  | 14.3  |          |      |      |
| 30                 | 892        | 888                          |                                         |            |            | 984    | 25.7           | 21.6  | 15.4  |          |      |      |
| 32                 | 1.01       | 1.01                         |                                         |            |            | 1.12   | 27.4           | 23.0  | 16.4  |          |      |      |
| 34                 | 1.14       | 1.14                         |                                         |            |            | 1.26   | 29.1           | 24.5  | 17.4  |          |      |      |
| 0.70               | IV         | 33                           |                                         |            |            | 20     | 0.381          | 0.375 | 0.424 | 16.8     | 14.0 | 9.9  |
|                    |            |                              |                                         |            |            | 22     | 469            | 464   | 521   | 18.5     | 15.4 | 10.9 |
|                    |            |                              | 24                                      | 549        | 545        | 610    | 20.2           | 16.8  | 11.9  |          |      |      |
|                    |            |                              | 26                                      | 646        | 642        | 718    | 21.9           | 18.2  | 12.9  |          |      |      |
|                    |            |                              | 28                                      | 748        | 744        | 836    | 23.6           | 19.6  | 13.9  |          |      |      |
|                    |            |                              | 30                                      | 860        | 856        | 956    | 25.3           | 21.0  | 14.8  |          |      |      |
|                    |            |                              | 32                                      | 977        | 974        | 1.09   | 26.9           | 22.4  | 15.8  |          |      |      |
|                    |            |                              | 34                                      | 1.10       | 1.10       | 1.23   | 28.6           | 23.8  | 16.8  |          |      |      |
|                    |            |                              | 36                                      | 1.24       | 1.24       | 1.37   | 30.3           | 25.2  | 17.8  |          |      |      |
|                    |            |                              | 38                                      | 1.37       | 1.37       | 1.52   | 32.0           | 26.6  | 18.8  |          |      |      |
|                    |            |                              | 0.68                                    | IV         | 34         | 22     | 0.452          | 0.447 | 0.507 | 18.2     | 15.0 | 10.5 |
| 24                 | 530        | 525                          |                                         |            |            | 593    | 19.9           | 16.3  | 11.5  |          |      |      |
| 26                 | 624        | 620                          |                                         |            |            | 698    | 21.6           | 17.7  | 12.5  |          |      |      |
| 28                 | 722        | 718                          |                                         |            |            | 808    | 23.2           | 19.0  | 13.4  |          |      |      |
| 30                 | 830        | 826                          |                                         |            |            | 929    | 24.9           | 20.4  | 14.4  |          |      |      |
| 32                 | 942        | 939                          |                                         |            |            | 1.06   | 26.5           | 21.8  | 15.3  |          |      |      |
| 34                 | 1.06       | 1.06                         |                                         |            |            | 1.19   | 28.2           | 23.1  | 16.3  |          |      |      |
| 36                 | 1.20       | 1.20                         |                                         |            |            | 1.34   | 29.8           | 24.5  | 17.2  |          |      |      |
| 38                 | 1.32       | 1.32                         |                                         |            |            | 1.48   | 31.5           | 25.8  | 18.2  |          |      |      |
| 40                 | 1.48       | 1.48                         |                                         |            |            | 1.65   | 33.2           | 27.2  | 19.2  |          |      |      |

Höhe 25 m.

Höhe 25 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |               | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |  |  |          |  |  |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|----------------|---------------|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|--|--|----------|--|--|
|                    |                |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$  | $\frac{3}{4}$ |                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |  |  |          |  |  |
|                    |                |                              |                                         |            |            |        |                |                |               |                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |  |  | der Höhe |  |  |
|                    |                |                              |                                         |            |            |        |                |                |               |                    |            |                              |                                         |            |            |        |                |               |               | cm       |  |  | cm       |  |  |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |            |        | cm             | m <sup>3</sup> |               |                    | cm         |                              |                                         |            |            |        |                |               |               |          |  |  |          |  |  |
| 0·66               | IV             | 37                           | 24                                      | 0·511      | 0·506      | 0·575  | 19·6           | 15·8           | 11·0          | 0·58               | III        | 43                           | 34                                      | 0·867      | 0·864      | 1·01   | 26·0           | 19·7          | 13·4          |          |  |  |          |  |  |
|                    |                |                              | 26                                      | 601        | 596        | 677    | 21·2           | 17·2           | 12·0          |                    |            |                              | 36                                      | 974        | 971        | 1·14   | 27·5           | 20·9          | 14·2          |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 696        | 692        | 784    | 22·8           | 18·5           | 12·9          |                    |            |                              | 38                                      | 1·08       | 1·08       | 1·26   | 29·0           | 22·0          | 14·9          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 800        | 796        | 901    | 24·5           | 19·8           | 13·8          |                    |            |                              | 40                                      | 1·20       | 1·20       | 1·40   | 30·6           | 23·2          | 15·8          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 908        | 904        | 1·02   | 26·1           | 21·1           | 14·7          |                    |            |                              | 42                                      | 1·32       | 1·32       | 1·54   | 32·1           | 24·4          | 16·5          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 1·03       | 1·03       | 1·16   | 27·7           | 22·4           | 15·6          |                    |            |                              | 44                                      | 1·45       | 1·45       | 1·69   | 33·6           | 25·5          | 17·3          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1·15       | 1·15       | 1·30   | 29·4           | 23·8           | 16·6          |                    |            |                              | 46                                      | 1·58       | 1·58       | 1·85   | 35·1           | 26·7          | 18·1          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1·28       | 1·28       | 1·44   | 31·0           | 25·1           | 17·5          |                    |            |                              | 48                                      | 1·73       | 1·73       | 2·01   | 36·7           | 27·8          | 18·9          |          |  |  |          |  |  |
|                    |                |                              | 40                                      | 1·42       | 1·42       | 1·60   | 32·6           | 26·4           | 18·4          |                    |            |                              | 50                                      | 1·87       | 1·87       | 2·19   | 38·2           | 29·0          | 19·7          |          |  |  |          |  |  |
|                    |                |                              | 42                                      | 1·56       | 1·56       | 1·76   | 34·3           | 27·7           | 19·3          |                    |            |                              | 52                                      | 2·02       | 2·02       | 2·36   | 39·7           | 30·2          | 20·5          |          |  |  |          |  |  |
|                    |                |                              | 44                                      | 1·72       | 1·72       | 1·93   | 35·9           | 29·0           | 20·2          |                    |            |                              | 54                                      | 2·18       | 2·18       | 2·55   | 41·3           | 31·3          | 21·3          |          |  |  |          |  |  |
| 0·64               | IV             | 38                           | 26                                      | 0·577      | 0·573      | 0·656  | 20·9           | 16·6           | 11·5          | 0·56               | II         | 45                           | 40                                      | 1·15       | 1·15       | 1·36   | 30·0           | 22·4          | 15·1          |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 668        | 664        | 759    | 22·5           | 17·9           | 12·4          |                    |            |                              | 42                                      | 1·27       | 1·27       | 1·49   | 31·5           | 23·5          | 15·8          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 768        | 764        | 872    | 24·1           | 19·2           | 13·3          |                    |            |                              | 44                                      | 1·39       | 1·39       | 1·64   | 33·2           | 24·6          | 16·6          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 876        | 872        | 990    | 25·7           | 20·5           | 14·2          |                    |            |                              | 46                                      | 1·52       | 1·52       | 1·79   | 34·5           | 25·8          | 17·3          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 985        | 982        | 1·12   | 27·3           | 21·8           | 15·1          |                    |            |                              | 48                                      | 1·65       | 1·65       | 1·95   | 36·0           | 26·9          | 18·1          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1·11       | 1·11       | 1·26   | 28·9           | 23·0           | 16·0          |                    |            |                              | 50                                      | 1·79       | 1·79       | 2·11   | 37·5           | 28·0          | 18·8          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1·23       | 1·23       | 1·39   | 30·5           | 24·3           | 16·9          |                    |            |                              | 52                                      | 1·94       | 1·94       | 2·28   | 39·0           | 29·1          | 19·6          |          |  |  |          |  |  |
|                    |                |                              | 40                                      | 1·37       | 1·37       | 1·55   | 32·1           | 25·6           | 17·8          |                    |            |                              | 54                                      | 2·09       | 2·09       | 2·46   | 40·5           | 30·2          | 20·4          |          |  |  |          |  |  |
|                    |                |                              | 42                                      | 1·50       | 1·50       | 1·70   | 33·7           | 26·9           | 18·6          |                    |            |                              | 56                                      | 2·25       | 2·25       | 2·65   | 42·0           | 31·4          | 21·1          |          |  |  |          |  |  |
|                    |                |                              | 44                                      | 1·65       | 1·65       | 1·87   | 35·3           | 28·2           | 19·5          |                    |            |                              | 58                                      | 2·42       | 2·42       | 2·84   | 43·5           | 32·5          | 21·9          |          |  |  |          |  |  |
|                    |                |                              | 46                                      | 1·80       | 1·80       | 2·04   | 36·9           | 29·4           | 20·4          |                    |            |                              | 60                                      | 2·56       | 2·56       | 3·02   | 45·0           | 33·6          | 22·6          |          |  |  |          |  |  |
| 48                 | 1·96           | 1·96                         | 2·22                                    | 38·5       | 30·7       | 21·3   | 62             | 2·76           | 2·76          | 3·25               | 46·5       | 34·7                         | 23·4                                    |            |            |        |                |               |               |          |  |  |          |  |  |
| 0·62               | III            | 40                           | 28                                      | 0·644      | 0·640      | 0·736  | 22·1           | 17·4           | 12·0          | 0·54               | II         | 47                           | 46                                      | 1·45       | 1·45       | 1·73   | 34·0           | 24·8          | 16·5          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 740        | 736        | 844    | 23·7           | 18·6           | 12·8          |                    |            |                              | 48                                      | 1·58       | 1·58       | 1·88   | 35·5           | 25·9          | 17·2          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 840        | 836        | 959    | 25·3           | 19·8           | 13·7          |                    |            |                              | 50                                      | 1·71       | 1·71       | 2·04   | 37·0           | 27·0          | 17·9          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 949        | 946        | 1·08   | 26·9           | 21·0           | 14·6          |                    |            |                              | 52                                      | 1·85       | 1·85       | 2·20   | 38·4           | 28·0          | 18·7          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1·07       | 1·07       | 1·22   | 28·4           | 22·3           | 15·4          |                    |            |                              | 54                                      | 2·00       | 2·00       | 2·38   | 39·9           | 29·2          | 19·4          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1·18       | 1·18       | 1·35   | 30·0           | 23·6           | 16·2          |                    |            |                              | 56                                      | 2·15       | 2·15       | 2·56   | 41·4           | 30·2          | 20·1          |          |  |  |          |  |  |
|                    |                |                              | 40                                      | 1·32       | 1·32       | 1·50   | 31·6           | 24·8           | 17·0          |                    |            |                              | 58                                      | 2·30       | 2·30       | 2·75   | 42·9           | 31·3          | 20·8          |          |  |  |          |  |  |
|                    |                |                              | 42                                      | 1·45       | 1·45       | 1·65   | 33·2           | 26·0           | 17·9          |                    |            |                              | 60                                      | 2·44       | 2·44       | 2·91   | 44·3           | 32·4          | 21·5          |          |  |  |          |  |  |
|                    |                |                              | 44                                      | 1·59       | 1·59       | 1·81   | 34·8           | 27·3           | 18·8          |                    |            |                              | 62                                      | 2·63       | 2·63       | 3·14   | 45·8           | 33·5          | 22·3          |          |  |  |          |  |  |
|                    |                |                              | 46                                      | 1·73       | 1·73       | 1·98   | 36·3           | 28·5           | 19·6          |                    |            |                              | 64                                      | 2·81       | 2·81       | 3·35   | 47·3           | 34·6          | 22·9          |          |  |  |          |  |  |
|                    |                |                              | 48                                      | 1·89       | 1·89       | 2·16   | 37·9           | 29·8           | 20·5          |                    |            |                              | 66                                      | 2·98       | 2·98       | 3·56   | 48·8           | 35·6          | 23·7          |          |  |  |          |  |  |
| 50                 | 2·05           | 2·05                         | 2·34                                    | 39·5       | 31·0       | 21·3   | 68             | 3·16           | 3·16          | 3·77               | 50·3       | 36·7                         | 24·4                                    |            |            |        |                |               |               |          |  |  |          |  |  |
| 0·60               | III            | 41                           | 30                                      | 0·710      | 0·706      | 0·818  | 23·3           | 18·0           | 12·3          | 0·52               | II         | 49                           | 52                                      | 1·76       | 1·76       | 2·12   | 37·8           | 27·0          | 17·8          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 806        | 802        | 929    | 24·9           | 19·2           | 13·2          |                    |            |                              | 54                                      | 1·90       | 1·90       | 2·27   | 39·2           | 28·6          | 18·5          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 910        | 907        | 1·05   | 26·4           | 20·4           | 14·0          |                    |            |                              | 56                                      | 2·04       | 2·04       | 2·46   | 40·6           | 29·6          | 19·1          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1·02       | 1·02       | 1·18   | 28·0           | 21·6           | 14·8          |                    |            |                              | 58                                      | 2·19       | 2·19       | 2·64   | 42·1           | 30·2          | 19·8          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1·13       | 1·13       | 1·31   | 29·5           | 22·8           | 15·7          |                    |            |                              | 60                                      | 2·32       | 2·32       | 2·80   | 43·6           | 31·2          | 20·5          |          |  |  |          |  |  |
|                    |                |                              | 40                                      | 1·26       | 1·26       | 1·46   | 31·1           | 24·0           | 16·5          |                    |            |                              | 62                                      | 2·51       | 2·51       | 3·02   | 45·0           | 32·2          | 21·2          |          |  |  |          |  |  |
|                    |                |                              | 42                                      | 1·39       | 1·39       | 1·60   | 32·6           | 25·2           | 17·3          |                    |            |                              | 64                                      | 2·67       | 2·67       | 3·22   | 46·5           | 33·3          | 21·9          |          |  |  |          |  |  |
|                    |                |                              | 44                                      | 1·52       | 1·52       | 1·76   | 34·2           | 26·4           | 18·1          |                    |            |                              | 66                                      | 2·84       | 2·84       | 3·42   | 47·9           | 34·3          | 22·5          |          |  |  |          |  |  |
|                    |                |                              | 46                                      | 1·66       | 1·66       | 1·92   | 35·7           | 27·6           | 19·0          |                    |            |                              | 68                                      | 3·01       | 3·01       | 3·63   | 49·4           | 35·4          | 23·3          |          |  |  |          |  |  |
|                    |                |                              | 48                                      | 1·82       | 1·82       | 2·09   | 37·3           | 28·8           | 19·8          |                    |            |                              | 70                                      | 3·19       | 3·19       | 3·85   | 50·8           | 36·4          | 23·9          |          |  |  |          |  |  |
|                    |                |                              | 50                                      | 1·96       | 1·96       | 2·26   | 38·9           | 30·0           | 20·6          |                    |            |                              | 72                                      | 3·39       | 3·39       | 4·08   | 52·3           | 37·4          | 24·6          |          |  |  |          |  |  |
| 52                 | 2·13           | 2·13                         | 2·45                                    | 40·4       | 31·2       | 21·4   | 74             | 3·57           | 3·57          | 4·30               | 53·7       | 38·5                         | 25·3                                    |            |            |        |                |               |               |          |  |  |          |  |  |

## Höhe 26 m.

## Höhe 26 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 13 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               |          |  |  |          |  |  |
|--------------------|------------|------------------------------|----------------------------------------|------------|-----------|--------|----------------|---------------|---------------|--------------------|------------|------------------------------|----------------------------------------|------------|-----------|--------|----------------|---------------|---------------|----------|--|--|----------|--|--|
|                    |            |                              |                                        | Schaftes   | Derholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |                    |            |                              |                                        | Schaftes   | Derholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |  |  |          |  |  |
|                    |            |                              |                                        |            |           |        |                |               |               |                    |            |                              |                                        |            |           |        |                |               |               | der Höhe |  |  | der Höhe |  |  |
|                    |            |                              |                                        |            |           |        |                |               |               |                    |            |                              |                                        |            |           |        |                |               |               | cm       |  |  | cm       |  |  |
| 0-74               | V          | 29                           | 19                                     | 0-384      | 0-377     | 0-420  | 16-4           | 14-1          | 10-0          | 0-66               | IV         | 36                           | 34                                     | 1-06       | 1-06      | 1-19   | 27-7           | 22-4          | 15-7          |          |  |  |          |  |  |
|                    |            |                              | 20                                     | 424        | 419       | 464    | 17-4           | 14-8          | 10-6          |                    |            |                              | 36                                     | 1-19       | 1-19      | 1-34   | 29-3           | 23-8          | 16-6          |          |  |  |          |  |  |
|                    |            |                              | 22                                     | 521        | 515       | 569    | 19-1           | 16-3          | 11-6          |                    |            |                              | 38                                     | 1-32       | 1-32      | 1-49   | 31-0           | 25-1          | 17-5          |          |  |  |          |  |  |
|                    |            |                              | 24                                     | 615        | 610       | 671    | 20-8           | 17-8          | 12-7          |                    |            |                              | 40                                     | 1-48       | 1-48      | 1-66   | 32-6           | 26-4          | 18-4          |          |  |  |          |  |  |
|                    |            |                              | 26                                     | 718        | 713       | 785    | 22-6           | 19-2          | 13-8          |                    |            |                              | 42                                     | 1-62       | 1-62      | 1-82   | 34-3           | 27-7          | 19-4          |          |  |  |          |  |  |
|                    |            |                              | 28                                     | 834        | 829       | 910    | 24-3           | 20-7          | 14-8          |                    |            |                              | 44                                     | 1-78       | 1-78      | 2-00   | 35-9           | 29-0          | 20-3          |          |  |  |          |  |  |
|                    |            |                              | 30                                     | 959        | 955       | 1-05   | 26-0           | 22-2          | 15-9          |                    |            |                              | 46                                     | 1-95       | 1-95      | 2-18   | 37-5           | 30-4          | 21-2          |          |  |  |          |  |  |
|                    |            |                              | 32                                     | 1-09       | 1-09      | 1-19   | 27-8           | 23-7          | 16-9          |                    |            |                              | 48                                     | 2-12       | 2-12      | 2-38   | 39-1           | 31-7          | 22-1          |          |  |  |          |  |  |
|                    |            |                              | 34                                     | 1-23       | 1-23      | 1-34   | 29-5           | 25-2          | 18-0          |                    |            |                              | 26                                     | 0-598      | 0-593     | 0-676  | 20-9           | 16-6          | 11-6          |          |  |  |          |  |  |
|                    |            |                              | 36                                     | 1-38       | 1-38      | 1-51   | 31-2           | 26-6          | 19-0          |                    |            |                              |                                        | 28         | 693       | 688    | 784            | 22-5          | 17-9          | 12-4     |  |  |          |  |  |
| 0-72               | V          | 31                           | 20                                     | 0-410      | 0-406     | 0-453  | 17-1           | 14-4          | 10-2          | 0-64               | IV         | 37                           | 30                                     | 797        | 793       | 902    | 24-1           | 19-2          | 13-3          |          |  |  |          |  |  |
|                    |            |                              | 22                                     | 503        | 497       | 555    | 18-8           | 15-8          | 11-3          |                    |            |                              | 32                                     | 905        | 901       | 1-02   | 25-7           | 20-5          | 14-2          |          |  |  |          |  |  |
|                    |            |                              | 24                                     | 593        | 588       | 654    | 20-5           | 17-3          | 12-3          |                    |            |                              | 34                                     | 1-02       | 1-02      | 1-16   | 27-3           | 21-8          | 15-1          |          |  |  |          |  |  |
|                    |            |                              | 26                                     | 694        | 689       | 765    | 22-2           | 18-7          | 13-3          |                    |            |                              | 36                                     | 1-15       | 1-15      | 1-30   | 28-9           | 23-0          | 16-0          |          |  |  |          |  |  |
|                    |            |                              | 28                                     | 805        | 801       | 888    | 23-9           | 20-2          | 14-3          |                    |            |                              | 38                                     | 1-27       | 1-27      | 1-44   | 30-5           | 24-3          | 16-9          |          |  |  |          |  |  |
|                    |            |                              | 30                                     | 925        | 921       | 1-02   | 25-6           | 21-6          | 15-4          |                    |            |                              | 40                                     | 1-42       | 1-42      | 1-61   | 32-1           | 25-6          | 17-8          |          |  |  |          |  |  |
|                    |            |                              | 32                                     | 1-05       | 1-05      | 1-16   | 27-4           | 23-0          | 16-4          |                    |            |                              | 42                                     | 1-51       | 1-51      | 1-76   | 33-7           | 26-9          | 18-7          |          |  |  |          |  |  |
|                    |            |                              | 34                                     | 1-19       | 1-19      | 1-31   | 29-1           | 24-5          | 17-4          |                    |            |                              | 44                                     | 1-71       | 1-71      | 1-94   | 35-3           | 28-2          | 19-6          |          |  |  |          |  |  |
|                    |            |                              | 36                                     | 1-33       | 1-33      | 1-48   | 30-8           | 25-9          | 18-4          |                    |            |                              | 46                                     | 1-87       | 1-87      | 2-12   | 36-9           | 29-4          | 20-5          |          |  |  |          |  |  |
|                    |            |                              | 38                                     | 1-48       | 1-48      | 1-63   | 32-5           | 27-4          | 19-5          |                    |            |                              | 48                                     | 2-04       | 2-04      | 2-31   | 38-5           | 30-7          | 21-4          |          |  |  |          |  |  |
| 0-70               | V          | 33                           | 20                                     | 0-396      | 0-390     | 0-439  | 16-8           | 14-0          | 9-9           | 0-62               | III        | 40                           | 28                                     | 0-667      | 0-662     | 0-758  | 22-1           | 17-4          | 12-0          |          |  |  |          |  |  |
|                    |            |                              | 22                                     | 486        | 480       | 538    | 18-5           | 15-4          | 10-9          |                    |            |                              | 30                                     | 767        | 763       | 872    | 23-7           | 18-6          | 12-8          |          |  |  |          |  |  |
|                    |            |                              | 24                                     | 573        | 568       | 635    | 20-2           | 16-8          | 11-9          |                    |            |                              | 32                                     | 871        | 867       | 991    | 25-2           | 19-8          | 13-7          |          |  |  |          |  |  |
|                    |            |                              | 26                                     | 671        | 666       | 742    | 21-9           | 18-2          | 12-9          |                    |            |                              | 34                                     | 984        | 981       | 1-12   | 26-8           | 21-0          | 14-6          |          |  |  |          |  |  |
|                    |            |                              | 28                                     | 778        | 773       | 860    | 23-5           | 19-6          | 13-9          |                    |            |                              | 36                                     | 1-10       | 1-10      | 1-26   | 28-4           | 22-3          | 15-4          |          |  |  |          |  |  |
|                    |            |                              | 30                                     | 894        | 890       | 990    | 25-2           | 21-0          | 14-9          |                    |            |                              | 38                                     | 1-23       | 1-23      | 1-40   | 30-0           | 23-6          | 16-3          |          |  |  |          |  |  |
|                    |            |                              | 32                                     | 1-01       | 1-01      | 1-12   | 26-9           | 22-4          | 15-9          |                    |            |                              | 40                                     | 1-37       | 1-37      | 1-55   | 31-6           | 24-8          | 17-1          |          |  |  |          |  |  |
|                    |            |                              | 34                                     | 1-15       | 1-15      | 1-27   | 28-6           | 23-8          | 16-9          |                    |            |                              | 42                                     | 1-50       | 1-50      | 1-70   | 33-1           | 26-0          | 18-0          |          |  |  |          |  |  |
|                    |            |                              | 36                                     | 1-29       | 1-29      | 1-42   | 30-3           | 25-2          | 17-9          |                    |            |                              | 44                                     | 1-65       | 1-65      | 1-87   | 34-7           | 27-3          | 18-8          |          |  |  |          |  |  |
|                    |            |                              | 38                                     | 1-43       | 1-43      | 1-58   | 32-0           | 26-6          | 18-8          |                    |            |                              | 46                                     | 1-80       | 1-80      | 2-05   | 36-3           | 28-5          | 19-7          |          |  |  |          |  |  |
| 0-68               | IV         | 34                           | 24                                     | 0-552      | 0-547     | 0-616  | 19-9           | 16-3          | 11-5          | 0-60               | III        | 41                           | 32                                     | 0-836      | 0-832     | 0-959  | 24-8           | 19-2          | 13-2          |          |  |  |          |  |  |
|                    |            |                              | 26                                     | 646        | 641       | 720    | 21-5           | 17-7          | 12-5          |                    |            |                              | 34                                     | 944        | 940       | 1-08   | 26-4           | 20-4          | 14-0          |          |  |  |          |  |  |
|                    |            |                              | 28                                     | 749        | 744       | 835    | 23-2           | 19-0          | 13-4          |                    |            |                              | 36                                     | 1-06       | 1-06      | 1-22   | 27-9           | 21-6          | 14-8          |          |  |  |          |  |  |
|                    |            |                              | 30                                     | 861        | 857       | 960    | 24-8           | 20-4          | 14-4          |                    |            |                              | 38                                     | 1-18       | 1-18      | 1-35   | 29-5           | 22-8          | 15-7          |          |  |  |          |  |  |
|                    |            |                              | 32                                     | 978        | 974       | 1-09   | 26-5           | 21-8          | 15-3          |                    |            |                              | 40                                     | 1-31       | 1-31      | 1-51   | 31-0           | 24-0          | 16-5          |          |  |  |          |  |  |
|                    |            |                              | 34                                     | 1-10       | 1-10      | 1-23   | 28-2           | 23-1          | 16-3          |                    |            |                              | 42                                     | 1-44       | 1-44      | 1-65   | 32-6           | 25-2          | 17-3          |          |  |  |          |  |  |
|                    |            |                              | 36                                     | 1-24       | 1-24      | 1-38   | 29-8           | 24-5          | 17-2          |                    |            |                              | 44                                     | 1-58       | 1-58      | 1-81   | 34-1           | 26-4          | 18-1          |          |  |  |          |  |  |
|                    |            |                              | 38                                     | 1-37       | 1-37      | 1-53   | 31-5           | 25-8          | 18-2          |                    |            |                              | 46                                     | 1-73       | 1-73      | 1-98   | 35-7           | 27-6          | 19-0          |          |  |  |          |  |  |
|                    |            |                              | 40                                     | 1-54       | 1-54      | 1-71   | 33-1           | 27-2          | 19-2          |                    |            |                              | 48                                     | 1-88       | 1-88      | 2-16   | 37-2           | 28-8          | 19-8          |          |  |  |          |  |  |
|                    |            |                              | 42                                     | 1-68       | 1-68      | 1-87   | 34-8           | 28-6          | 20-1          |                    |            |                              | 50                                     | 2-04       | 2-04      | 2-34   | 38-8           | 30-0          | 20-6          |          |  |  |          |  |  |
| 0-66               | IV         | 36                           | 44                                     | 1-85       | 1-85      | 2-06   | 36-4           | 29-9          | 21-1          | 0-58               | III        | 43                           | 52                                     | 2-20       | 2-20      | 2-53   | 40-3           | 31-2          | 21-4          |          |  |  |          |  |  |
|                    |            |                              | 26                                     | 0-622      | 0-617     | 0-698  | 21-2           | 17-2          | 12-0          |                    |            |                              | 54                                     | 2-38       | 2-38      | 2-73   | 41-9           | 32-4          | 22-2          |          |  |  |          |  |  |
|                    |            |                              | 28                                     | 722        | 717       | 810    | 22-8           | 18-5          | 12-9          |                    |            |                              | 36                                     | 1-01       | 1-01      | 1-18   | 27-5           | 20-9          | 14-2          |          |  |  |          |  |  |
|                    |            |                              | 30                                     | 829        | 825       | 931    | 25-4           | 19-8          | 13-8          |                    |            |                              | 38                                     | 1-12       | 1-12      | 1-31   | 28-9           | 22-0          | 15-0          |          |  |  |          |  |  |
|                    |            |                              | 32                                     | 943        | 939       | 1-06   | 26-1           | 21-1          | 14-8          |                    |            |                              | 40                                     | 1-25       | 1-25      | 1-46   | 30-5           | 23-2          | 15-8          |          |  |  |          |  |  |

## Höhe 26 m.

## Höhe 27 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |                |    |          |                |    |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|----------------|----|----------|----------------|----|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |                |    |          |                |    |
|                    |            |                              |                                         |            |            |        |                |               |               |                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |                |    | der Höhe |                |    |
|                    |            |                              |                                         |            |            |        |                |               |               |                    |            |                              |                                         |            |            |        |                |               |               | cm       | m <sup>3</sup> | cm | cm       | m <sup>3</sup> | cm |
| 0.58               | III        | 43                           | 42                                      | 1.37       | 1.37       | 1.59   | 32.0           | 24.4          | 16.5          | 0.74               | V          | 28                           | 20                                      | 0.441      | 0.435      | 0.480  | 17.3           | 15.8          | 10.6          |          |                |    |          |                |    |
|                    |            |                              | 44                                      | 1.51       | 1.51       | 1.75   | 33.6           | 25.5          | 17.4          |                    |            |                              | 22                                      | 541        | 536        | 589    | 19.1           | 16.3          | 11.7          |          |                |    |          |                |    |
|                    |            |                              | 46                                      | 1.65       | 1.65       | 1.92   | 35.1           | 26.7          | 18.2          |                    |            |                              | 24                                      | 634        | 629        | 690    | 20.8           | 17.8          | 12.7          |          |                |    |          |                |    |
|                    |            |                              | 48                                      | 1.80       | 1.80       | 2.09   | 36.6           | 27.8          | 19.0          |                    |            |                              | 26                                      | 744        | 739        | 809    | 22.5           | 19.2          | 13.2          |          |                |    |          |                |    |
|                    |            |                              | 50                                      | 1.94       | 1.94       | 2.26   | 38.1           | 29.0          | 19.7          |                    |            |                              | 28                                      | 863        | 859        | 939    | 24.3           | 20.7          | 14.8          |          |                |    |          |                |    |
|                    |            |                              | 52                                      | 2.10       | 2.10       | 2.45   | 39.7           | 30.3          | 20.5          |                    |            |                              | 30                                      | 993        | 989        | 1.08   | 26.0           | 22.2          | 15.9          |          |                |    |          |                |    |
|                    |            |                              | 54                                      | 2.27       | 2.27       | 2.64   | 41.2           | 31.3          | 21.3          |                    |            |                              | 32                                      | 1.13       | 1.13       | 1.23   | 27.7           | 23.7          | 17.0          |          |                |    |          |                |    |
|                    |            |                              | 56                                      | 2.44       | 2.44       | 2.84   | 42.7           | 32.5          | 22.1          |                    |            |                              | 34                                      | 1.27       | 1.27       | 1.39   | 29.5           | 25.2          | 18.0          |          |                |    |          |                |    |
|                    |            |                              | 58                                      | 2.62       | 2.62       | 3.04   | 44.3           | 33.6          | 22.9          |                    |            |                              | 36                                      | 1.43       | 1.43       | 1.56   | 31.2           | 26.6          | 19.0          |          |                |    |          |                |    |
|                    |            |                              |                                         |            |            |        | 38             | 1.58          | 1.58          | 1.73               | 32.9       | 28.1                         | 20.1                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 0.56               | II         | 45                           | 42                                      | 1.31       | 1.31       | 1.54   | 31.5           | 23.5          | 15.9          | 0.72               | V          | 30                           | 20                                      | 0.426      | 0.420      | 0.466  | 17.1           | 14.4          | 10.3          |          |                |    |          |                |    |
|                    |            |                              | 44                                      | 1.44       | 1.44       | 1.69   | 33.0           | 24.6          | 16.6          |                    |            |                              | 22                                      | 523        | 517        | 572    | 18.8           | 15.8          | 11.3          |          |                |    |          |                |    |
|                    |            |                              | 46                                      | 1.58       | 1.58       | 1.85   | 34.5           | 25.8          | 17.4          |                    |            |                              | 24                                      | 614        | 609        | 671    | 20.5           | 17.3          | 12.3          |          |                |    |          |                |    |
|                    |            |                              | 48                                      | 1.72       | 1.72       | 2.01   | 36.0           | 26.9          | 18.1          |                    |            |                              | 26                                      | 719        | 715        | 786    | 22.2           | 18.7          | 13.3          |          |                |    |          |                |    |
|                    |            |                              | 50                                      | 1.86       | 1.86       | 2.18   | 37.5           | 28.0          | 18.9          |                    |            |                              | 28                                      | 835        | 831        | 913    | 23.9           | 20.2          | 14.4          |          |                |    |          |                |    |
|                    |            |                              | 52                                      | 2.01       | 2.01       | 2.36   | 39.0           | 29.1          | 19.7          |                    |            |                              | 30                                      | 961        | 957        | 1.05   | 25.6           | 21.6          | 15.4          |          |                |    |          |                |    |
|                    |            |                              | 54                                      | 2.17       | 2.17       | 2.55   | 40.5           | 30.2          | 20.4          |                    |            |                              | 32                                      | 1.09       | 1.09       | 1.19   | 27.3           | 23.0          | 16.4          |          |                |    |          |                |    |
|                    |            |                              | 56                                      | 2.33       | 2.33       | 2.73   | 42.0           | 31.4          | 21.2          |                    |            |                              | 34                                      | 1.23       | 1.23       | 1.34   | 29.0           | 24.5          | 17.4          |          |                |    |          |                |    |
|                    |            |                              | 58                                      | 2.50       | 2.50       | 2.94   | 43.5           | 32.5          | 21.9          |                    |            |                              | 36                                      | 1.38       | 1.38       | 1.51   | 30.7           | 25.9          | 18.5          |          |                |    |          |                |    |
| 60                 | 2.69       | 2.69                         | 3.15                                    | 45.0       | 33.6       | 22.7   | 38             | 1.63          | 1.53          | 1.68               | 32.5       | 27.4                         | 19.5                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 62                 | 2.86       | 2.86                         | 3.36                                    | 46.5       | 34.7       | 23.4   | 40             | 1.71          | 1.71          | 1.87               | 34.2       | 28.8                         | 20.5                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 0.54               | II         | 47                           | 46                                      | 1.50       | 1.50       | 1.78   | 33.9           | 24.8          | 16.6          | 0.70               | V          | 32                           | 22                                      | 0.504      | 0.498      | 0.555  | 18.5           | 15.4          | 10.9          |          |                |    |          |                |    |
|                    |            |                              | 48                                      | 1.64       | 1.64       | 1.94   | 35.4           | 25.9          | 17.3          |                    |            |                              | 24                                      | 591        | 586        | 651    | 20.2           | 16.8          | 11.9          |          |                |    |          |                |    |
|                    |            |                              | 50                                      | 1.77       | 1.77       | 2.10   | 36.8           | 27.0          | 18.0          |                    |            |                              | 26                                      | 694        | 689        | 764    | 21.8           | 18.1          | 12.9          |          |                |    |          |                |    |
|                    |            |                              | 52                                      | 1.92       | 1.92       | 2.27   | 38.3           | 28.1          | 18.7          |                    |            |                              | 28                                      | 805        | 801        | 886    | 23.5           | 19.6          | 13.9          |          |                |    |          |                |    |
|                    |            |                              | 54                                      | 2.07       | 2.07       | 2.46   | 39.8           | 29.2          | 19.4          |                    |            |                              | 30                                      | 926        | 922        | 1.02   | 25.2           | 21.0          | 14.9          |          |                |    |          |                |    |
|                    |            |                              | 56                                      | 2.22       | 2.22       | 2.64   | 41.3           | 30.2          | 20.2          |                    |            |                              | 32                                      | 1.05       | 1.05       | 1.16   | 26.9           | 22.5          | 15.9          |          |                |    |          |                |    |
|                    |            |                              | 58                                      | 2.39       | 2.39       | 2.83   | 42.7           | 31.3          | 20.9          |                    |            |                              | 34                                      | 1.19       | 1.19       | 1.31   | 28.6           | 23.8          | 16.9          |          |                |    |          |                |    |
|                    |            |                              | 60                                      | 2.56       | 2.56       | 3.04   | 44.2           | 32.4          | 21.6          |                    |            |                              | 36                                      | 1.33       | 1.33       | 1.47   | 30.2           | 25.2          | 17.9          |          |                |    |          |                |    |
|                    |            |                              | 62                                      | 2.73       | 2.73       | 3.24   | 45.7           | 33.5          | 22.3          |                    |            |                              | 38                                      | 1.48       | 1.48       | 1.63   | 31.9           | 26.6          | 18.9          |          |                |    |          |                |    |
| 64                 | 2.91       | 2.91                         | 3.46                                    | 47.2       | 34.6       | 23.0   | 40             | 1.65          | 1.65          | 1.82               | 33.6       | 28.0                         | 19.9                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 66                 | 3.09       | 3.09                         | 3.67                                    | 48.6       | 35.6       | 23.8   | 42             | 1.81          | 1.81          | 2.00               | 35.3       | 29.4                         | 20.9                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 68                 | 3.28       | 3.23                         | 3.90                                    | 50.1       | 36.7       | 24.5   | 22             | 0.487         | 0.481         | 0.539              | 18.2       | 15.0                         | 10.6                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 70                 | 3.48       | 3.48                         | 4.13                                    | 51.6       | 37.8       | 25.2   | 24             | 570           | 565           | 643                | 19.8       | 16.3                         | 11.5                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 0.52               | II         | 48                           | 56                                      | 2.11       | 2.11       | 2.54   | 40.6           | 29.6          | 19.2          | 0.68               | IV         | 34                           | 26                                      | 669        | 664        | 742    | 21.5           | 17.7          | 12.5          |          |                |    |          |                |    |
|                    |            |                              | 58                                      | 2.27       | 2.27       | 2.72   | 42.0           | 30.2          | 19.9          |                    |            |                              | 28                                      | 777        | 773        | 861    | 23.2           | 19.0          | 13.4          |          |                |    |          |                |    |
|                    |            |                              | 60                                      | 2.44       | 2.44       | 2.92   | 43.5           | 31.2          | 20.6          |                    |            |                              | 30                                      | 894        | 890        | 991    | 24.8           | 20.4          | 14.4          |          |                |    |          |                |    |
|                    |            |                              | 62                                      | 2.60       | 2.60       | 3.12   | 44.9           | 32.2          | 21.3          |                    |            |                              | 32                                      | 1.01       | 1.01       | 1.13   | 26.5           | 21.8          | 15.4          |          |                |    |          |                |    |
|                    |            |                              | 64                                      | 2.77       | 2.77       | 3.32   | 46.4           | 33.3          | 22.0          |                    |            |                              | 34                                      | 1.15       | 1.15       | 1.27   | 28.1           | 23.1          | 16.3          |          |                |    |          |                |    |
|                    |            |                              | 66                                      | 2.94       | 2.94       | 3.53   | 47.8           | 34.3          | 22.6          |                    |            |                              | 36                                      | 1.29       | 1.29       | 1.43   | 29.8           | 24.5          | 17.3          |          |                |    |          |                |    |
|                    |            |                              | 68                                      | 3.12       | 3.12       | 3.75   | 49.3           | 35.4          | 23.3          |                    |            |                              | 38                                      | 1.43       | 1.43       | 1.58   | 31.4           | 25.8          | 18.2          |          |                |    |          |                |    |
|                    |            |                              | 70                                      | 3.31       | 3.31       | 3.97   | 50.7           | 36.4          | 24.0          |                    |            |                              | 40                                      | 1.59       | 1.59       | 1.76   | 33.1           | 27.2          | 19.2          |          |                |    |          |                |    |
|                    |            |                              | 72                                      | 3.51       | 3.51       | 4.21   | 52.1           | 37.4          | 24.7          |                    |            |                              | 42                                      | 1.75       | 1.75       | 1.94   | 34.7           | 28.6          | 20.2          |          |                |    |          |                |    |
| 74                 | 3.71       | 3.71                         | 4.44                                    | 53.6       | 38.5       | 25.4   | 24             | 0.549         | 0.544         | 0.613              | 19.5       | 15.8                         | 11.1                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 76                 | 3.91       | 3.91                         | 4.68                                    | 55.0       | 39.5       | 26.1   | 26             | 643           | 638           | 719                | 21.2       | 17.2                         | 12.0                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 78                 | 4.11       | 4.11                         | 4.92                                    | 56.5       | 40.6       | 26.8   | 28             | 747           | 743           | 835                | 22.8       | 18.5                         | 12.9                                    |            |            |        |                |               |               |          |                |    |          |                |    |
| 80                 | 4.32       | 4.32                         | 5.19                                    | 57.9       | 41.6       | 27.4   | 30             | 869           | 855           | 960                | 24.4       | 19.8                         | 13.9                                    |            |            |        |                |               |               |          |                |    |          |                |    |

Höhe 27 m.

Höhe 27 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |           |        | Durchmesser in |               |               |          |       |      |
|--------------------|------------|------------------------------|-----------------------------------------|------------|-----------|--------|----------------|---------------|---------------|----------|-------|------|
|                    |            |                              |                                         | Schafftes  | Derbolzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |       |      |
|                    |            |                              |                                         |            |           |        |                |               |               | der Höhe |       |      |
|                    |            |                              |                                         |            |           |        |                |               |               | cm       | $m^3$ | cm   |
| 0-68               | IV         | 36                           | 32                                      | 0-976      | 0-972     | 1-09   | 26-0           | 21-1          | 14-8          |          |       |      |
|                    |            |                              | 34                                      | 1-10       | 1-10      | 1-23   | 27-7           | 22-4          | 15-7          |          |       |      |
|                    |            |                              | 36                                      | 1-24       | 1-24      | 1-38   | 29-3           | 23-8          | 16-6          |          |       |      |
|                    |            |                              | 38                                      | 1-37       | 1-37      | 1-53   | 30-9           | 25-1          | 17-6          |          |       |      |
|                    |            |                              | 40                                      | 1-48       | 1-48      | 1-71   | 32-6           | 26-4          | 18-5          |          |       |      |
|                    |            |                              | 42                                      | 1-68       | 1-68      | 1-88   | 34-2           | 27-7          | 19-4          |          |       |      |
|                    |            |                              | 44                                      | 1-84       | 1-84      | 2-06   | 35-8           | 29-0          | 20-3          |          |       |      |
|                    |            |                              | 46                                      | 2-02       | 2-02      | 2-25   | 37-4           | 30-4          | 21-3          |          |       |      |
| 0-64               | IV         | 37                           | 28                                      | 0-718      | 0-714     | 0-808  | 22-4           | 17-9          | 12-5          |          |       |      |
|                    |            |                              | 30                                      | 827        | 823       | 930    | 24-0           | 19-2          | 13-4          |          |       |      |
|                    |            |                              | 32                                      | 939        | 935       | 1-06   | 25-6           | 20-5          | 14-3          |          |       |      |
|                    |            |                              | 34                                      | 1-06       | 1-06      | 1-19   | 27-2           | 21-8          | 15-2          |          |       |      |
|                    |            |                              | 36                                      | 1-19       | 1-19      | 1-34   | 28-8           | 23-0          | 16-1          |          |       |      |
|                    |            |                              | 38                                      | 1-32       | 1-32      | 1-48   | 30-4           | 24-3          | 16-9          |          |       |      |
|                    |            |                              | 40                                      | 1-47       | 1-47      | 1-66   | 32-0           | 25-6          | 17-8          |          |       |      |
|                    |            |                              | 42                                      | 1-62       | 1-62      | 1-88   | 33-6           | 26-9          | 18-7          |          |       |      |
|                    |            |                              | 44                                      | 1-78       | 1-78      | 2-00   | 35-2           | 28-2          | 19-7          |          |       |      |
|                    |            |                              | 46                                      | 1-94       | 1-94      | 2-18   | 36-8           | 29-4          | 20-5          |          |       |      |
|                    |            |                              | 48                                      | 2-12       | 2-12      | 2-38   | 38-4           | 30-7          | 21-5          |          |       |      |
|                    |            |                              | 50                                      | 2-29       | 2-29      | 2-58   | 40-0           | 32-0          | 22-3          |          |       |      |
| 0-62               | III        | 39                           | 30                                      | 0-794      | 0-790     | 0-900  | 23-6           | 18-6          | 12-9          |          |       |      |
|                    |            |                              | 32                                      | 902        | 898       | 1-02   | 25-2           | 19-8          | 13-7          |          |       |      |
|                    |            |                              | 34                                      | 1-02       | 1-02      | 1-15   | 26-8           | 21-0          | 14-6          |          |       |      |
|                    |            |                              | 36                                      | 1-14       | 1-14      | 1-29   | 28-4           | 22-3          | 15-4          |          |       |      |
|                    |            |                              | 38                                      | 1-27       | 1-27      | 1-44   | 29-9           | 23-6          | 16-3          |          |       |      |
|                    |            |                              | 40                                      | 1-41       | 1-41      | 1-60   | 31-5           | 24-8          | 17-2          |          |       |      |
|                    |            |                              | 42                                      | 1-55       | 1-55      | 1-76   | 33-1           | 26-0          | 18-0          |          |       |      |
|                    |            |                              | 44                                      | 1-70       | 1-70      | 1-93   | 34-7           | 27-3          | 18-9          |          |       |      |
|                    |            |                              | 46                                      | 1-86       | 1-86      | 2-11   | 36-2           | 28-5          | 19-7          |          |       |      |
|                    |            |                              | 48                                      | 2-03       | 2-03      | 2-30   | 37-8           | 29-8          | 20-6          |          |       |      |
|                    |            |                              | 50                                      | 2-20       | 2-20      | 2-49   | 39-4           | 31-0          | 21-4          |          |       |      |
|                    |            |                              | 52                                      | 2-38       | 2-38      | 2-69   | 41-0           | 32-2          | 22-3          |          |       |      |
| 0-60               | III        | 41                           | 34                                      | 0-977      | 0-973     | 1-12   | 26-3           | 20-4          | 14-0          |          |       |      |
|                    |            |                              | 36                                      | 1-10       | 1-10      | 1-64   | 27-9           | 21-6          | 14-9          |          |       |      |
|                    |            |                              | 38                                      | 1-22       | 1-22      | 1-73   | 29-4           | 22-8          | 15-7          |          |       |      |
|                    |            |                              | 40                                      | 1-36       | 1-36      | 1-55   | 31-0           | 24-0          | 16-5          |          |       |      |
|                    |            |                              | 42                                      | 1-49       | 1-49      | 1-70   | 32-5           | 25-2          | 17-3          |          |       |      |
|                    |            |                              | 44                                      | 1-64       | 1-64      | 1-87   | 34-1           | 26-4          | 18-2          |          |       |      |
|                    |            |                              | 46                                      | 1-79       | 1-79      | 2-04   | 35-6           | 27-6          | 19-0          |          |       |      |
|                    |            |                              | 48                                      | 1-95       | 1-95      | 2-23   | 37-2           | 28-8          | 19-8          |          |       |      |
|                    |            |                              | 50                                      | 2-11       | 2-11      | 2-41   | 38-8           | 30-0          | 20-6          |          |       |      |
|                    |            |                              | 52                                      | 2-28       | 2-28      | 2-61   | 40-3           | 31-2          | 21-5          |          |       |      |
|                    |            |                              | 54                                      | 2-46       | 2-46      | 2-82   | 41-8           | 32-4          | 22-3          |          |       |      |
|                    |            |                              | 56                                      | 2-65       | 2-65      | 3-03   | 43-4           | 33-6          | 23-1          |          |       |      |
| 0-58               | III        | 42                           | 38                                      | 1-16       | 1-16      | 1-39   | 29-0           | 22-0          | 15-0          |          |       |      |
|                    |            |                              | 40                                      | 1-29       | 1-29      | 1-55   | 30-5           | 23-2          | 15-8          |          |       |      |
|                    |            |                              | 42                                      | 1-42       | 1-42      | 1-70   | 32-0           | 24-4          | 16-0          |          |       |      |
|                    |            |                              | 0-58                                    | III        | 42        | 44     | 1-56           | 1-56          | 1-87          | 33-5     | 25-5  | 17-4 |
|                    |            |                              |                                         |            |           | 46     | 1-71           | 1-71          | 2-04          | 35-1     | 26-7  | 18-2 |
|                    |            |                              |                                         |            |           | 48     | 1-86           | 1-86          | 2-23          | 36-6     | 27-8  | 19-0 |
|                    |            |                              |                                         |            |           | 50     | 2-01           | 2-01          | 2-41          | 38-1     | 29-0  | 19-8 |
|                    |            |                              |                                         |            |           | 52     | 2-18           | 2-18          | 2-61          | 39-6     | 30-2  | 20-6 |
| 54                 | 2-35       | 2-35                         |                                         |            |           | 2-82   | 41-1           | 31-3          | 21-4          |          |       |      |
| 56                 | 2-53       | 2-53                         |                                         |            |           | 3-03   | 42-7           | 32-5          | 22-2          |          |       |      |
| 58                 | 2-72       | 2-72                         |                                         |            |           | 3-25   | 44-2           | 33-6          | 23-0          |          |       |      |
| 0-56               | II         | 44                           | 60                                      | 2-91       | 2-91      | 3-48   | 45-7           | 34-8          | 23-8          |          |       |      |
|                    |            |                              | 44                                      | 1-49       | 1-49      | 1-74   | 33-0           | 24-6          | 16-7          |          |       |      |
|                    |            |                              | 46                                      | 1-63       | 1-63      | 1-90   | 34-5           | 25-8          | 17-4          |          |       |      |
|                    |            |                              | 48                                      | 1-78       | 1-78      | 2-08   | 36-0           | 26-9          | 18-2          |          |       |      |
|                    |            |                              | 50                                      | 1-93       | 1-93      | 2-25   | 37-4           | 28-0          | 18-9          |          |       |      |
|                    |            |                              | 52                                      | 2-09       | 2-09      | 2-43   | 38-9           | 29-1          | 19-7          |          |       |      |
|                    |            |                              | 54                                      | 2-25       | 2-25      | 2-67   | 40-4           | 30-2          | 20-5          |          |       |      |
|                    |            |                              | 56                                      | 2-42       | 2-42      | 2-82   | 41-9           | 31-4          | 21-2          |          |       |      |
| 0-54               | II         | 47                           | 58                                      | 2-60       | 2-60      | 3-03   | 43-4           | 32-5          | 22-0          |          |       |      |
|                    |            |                              | 60                                      | 2-79       | 2-79      | 3-25   | 44-9           | 33-6          | 22-7          |          |       |      |
|                    |            |                              | 62                                      | 2-97       | 2-97      | 3-46   | 46-4           | 34-7          | 23-5          |          |       |      |
|                    |            |                              | 64                                      | 3-17       | 3-17      | 3-69   | 47-9           | 35-8          | 24-3          |          |       |      |
|                    |            |                              | 66                                      | 3-37       | 3-37      | 3-92   | 49-4           | 37-0          | 25-0          |          |       |      |
|                    |            |                              | 48                                      | 1-66       | 1-66      | 2-00   | 35-3           | 25-9          | 17-3          |          |       |      |
|                    |            |                              | 50                                      | 1-83       | 1-83      | 2-17   | 36-8           | 27-0          | 18-0          |          |       |      |
|                    |            |                              | 52                                      | 1-98       | 1-98      | 2-34   | 38-3           | 28-1          | 18-8          |          |       |      |
| 0-52               | II         | 48                           | 54                                      | 2-14       | 2-14      | 2-53   | 39-7           | 29-2          | 19-5          |          |       |      |
|                    |            |                              | 56                                      | 2-30       | 2-30      | 2-72   | 41-2           | 30-2          | 20-2          |          |       |      |
|                    |            |                              | 58                                      | 2-47       | 2-47      | 2-92   | 42-7           | 31-3          | 20-9          |          |       |      |
|                    |            |                              | 60                                      | 2-65       | 2-65      | 3-13   | 44-2           | 32-4          | 21-7          |          |       |      |
|                    |            |                              | 62                                      | 2-83       | 2-83      | 3-34   | 45-6           | 33-5          | 22-4          |          |       |      |
|                    |            |                              | 64                                      | 3-01       | 3-01      | 3-56   | 47-1           | 34-6          | 23-1          |          |       |      |
|                    |            |                              | 66                                      | 3-17       | 3-17      | 3-78   | 48-6           | 35-6          | 23-9          |          |       |      |
|                    |            |                              | 68                                      | 3-40       | 3-40      | 4-01   | 50-0           | 36-7          | 24-5          |          |       |      |
| 0-50               | II         | 50                           | 70                                      | 3-61       | 3-61      | 4-26   | 51-5           | 37-8          | 25-3          |          |       |      |
|                    |            |                              | 72                                      | 3-82       | 3-82      | 4-51   | 52-9           | 38-9          | 26-0          |          |       |      |
|                    |            |                              | 58                                      | 2-35       | 2-35      | 2-81   | 41-9           | 30-2          | 20-0          |          |       |      |
|                    |            |                              | 60                                      | 2-52       | 2-52      | 3-01   | 43-4           | 31-2          | 20-6          |          |       |      |
|                    |            |                              | 62                                      | 2-69       | 2-69      | 3-21   | 44-8           | 32-2          | 21-3          |          |       |      |
|                    |            |                              | 64                                      | 2-87       | 2-87      | 3-42   | 46-3           | 33-3          | 22-0          |          |       |      |
|                    |            |                              | 66                                      | 3-01       | 3-01      | 3-64   | 47-7           | 34-3          | 22-7          |          |       |      |
|                    |            |                              | 68                                      | 3-23       | 3-23      | 3-86   | 49-2           | 35-4          | 23-4          |          |       |      |
| 0-48               | II         | 52                           | 70                                      | 3-43       | 3-43      | 4-09   | 50-6           | 36-4          | 24-1          |          |       |      |
|                    |            |                              | 72                                      | 3-63       | 3-63      | 4-33   | 52-1           | 37-4          | 24-8          |          |       |      |
|                    |            |                              | 74                                      | 3-83       | 3-83      | 4-57   | 53-5           | 38-5          | 25-5          |          |       |      |
|                    |            |                              | 76                                      | 4-03       | 4-03      | 4-81   | 54-9           | 39-5          | 26-1          |          |       |      |
|                    |            |                              | 78                                      | 4-25       | 4-25      | 5-08   | 56-4           | 40-6          | 26-8          |          |       |      |
|                    |            |                              | 80                                      | 4-48       | 4-48      | 5-35   | 57-8           | 41-6          | 27-5          |          |       |      |

Höhe 28 m.

Höhe 28 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |       |       |       |      |      |      |       |       |       |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|-------|-------|-------|------|------|------|-------|-------|-------|
|                    |            |                              |                                         | Schafftes  | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |       |       |       |      |      |      |       |       |       |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |       |       |       |      |      |      |       |       |       |
|                    |            |                              |                                         |            |            |        | cm             | $m^3$         |               | cm       | $cm$  |       |       |      |      |      |       |       |       |
| 0.74               | V          | 28                           | 20                                      | 0.456      | 0.449      | 0.496  | 17.3           | 14.8          | 10.6          | 0.66     | IV    | 36    | 36    | 1.28 | 1.28 | 1.43 | 29.3  | 23.8  | 16.6  |
|                    |            |                              | 22                                      | 560        | 554        | 609    | 19.1           | 16.3          | 11.7          |          |       |       | 38    | 1.42 | 1.42 | 1.58 | 30.9  | 25.1  | 17.6  |
|                    |            |                              | 24                                      | 655        | 649        | 712    | 20.8           | 17.8          | 12.7          |          |       |       | 40    | 1.58 | 1.58 | 1.76 | 32.5  | 26.4  | 18.5  |
|                    |            |                              | 26                                      | 773        | 767        | 840    | 22.5           | 19.2          | 13.8          |          |       |       | 42    | 1.74 | 1.74 | 1.93 | 34.1  | 27.7  | 19.4  |
|                    |            |                              | 28                                      | 895        | 890        | 973    | 24.2           | 20.7          | 14.9          |          |       |       | 44    | 1.91 | 1.91 | 2.13 | 35.8  | 29.0  | 20.3  |
|                    |            |                              | 30                                      | 1.03       | 1.02       | 1.12   | 26.0           | 22.2          | 15.9          |          |       |       | 46    | 2.08 | 2.08 | 2.33 | 37.4  | 30.4  | 21.3  |
|                    |            |                              | 32                                      | 1.17       | 1.17       | 1.27   | 27.7           | 23.7          | 17.0          |          |       |       | 48    | 2.28 | 2.28 | 2.53 | 39.0  | 31.7  | 22.2  |
|                    |            |                              | 34                                      | 1.32       | 1.32       | 1.43   | 29.4           | 25.2          | 18.1          |          |       |       | 50    | 2.46 | 2.46 | 2.74 | 40.6  | 33.0  | 23.1  |
|                    |            |                              | 36                                      | 1.48       | 1.48       | 1.61   | 31.2           | 26.6          | 19.1          |          |       |       | 0.64  | IV   | 37   | 28   | 0.745 | 0.741 | 0.836 |
| 38                 | 1.64       | 1.64                         | 1.78                                    | 32.9       | 28.1       | 20.2   | 30             | 855           | 851           | 960      | 24.0  | 19.2  |       |      |      | 13.4 |       |       |       |
| 0.72               | V          | 30                           | 20                                      | 0.441      | 0.434      | 0.482  | 17.1           | 14.4          | 10.3          | 32       | 972   | 968   |       |      |      | 1.09 | 25.6  | 20.5  | 14.3  |
|                    |            |                              | 22                                      | 542        | 536        | 591    | 18.8           | 15.8          | 11.3          | 34       | 1.10  | 1.10  |       |      |      | 1.23 | 27.2  | 21.8  | 15.2  |
|                    |            |                              | 24                                      | 635        | 629        | 692    | 20.5           | 17.3          | 12.3          | 36       | 1.23  | 1.23  |       |      |      | 1.39 | 28.8  | 23.0  | 16.1  |
|                    |            |                              | 26                                      | 748        | 742        | 816    | 22.2           | 18.7          | 13.4          | 38       | 1.36  | 1.36  |       |      |      | 1.53 | 30.4  | 24.3  | 17.0  |
|                    |            |                              | 28                                      | 866        | 861        | 944    | 23.9           | 20.2          | 14.4          | 40       | 1.52  | 1.52  |       |      |      | 1.71 | 32.0  | 25.6  | 17.9  |
|                    |            |                              | 30                                      | 993        | 988        | 1.08   | 25.6           | 21.6          | 15.4          | 42       | 1.67  | 1.67  |       |      |      | 1.88 | 33.6  | 26.9  | 18.8  |
|                    |            |                              | 32                                      | 1.13       | 1.12       | 1.23   | 27.3           | 23.0          | 16.4          | 44       | 1.84  | 1.84  |       |      |      | 2.07 | 35.4  | 28.2  | 19.7  |
|                    |            |                              | 34                                      | 1.27       | 1.27       | 1.39   | 29.0           | 24.5          | 17.5          | 46       | 2.00  | 2.00  | 2.25  | 36.8 | 29.4 | 20.6 |       |       |       |
|                    |            |                              | 36                                      | 1.44       | 1.44       | 1.57   | 30.7           | 25.9          | 18.5          | 48       | 2.19  | 2.19  | 2.46  | 38.4 | 30.7 | 21.5 |       |       |       |
| 38                 | 1.59       | 1.59                         | 1.73                                    | 32.4       | 27.4       | 19.5   | 50             | 2.37          | 2.37          | 2.66     | 40.0  | 32.0  | 22.3  |      |      |      |       |       |       |
| 40                 | 1.77       | 1.77                         | 1.93                                    | 34.1       | 28.8       | 20.6   | 0.62           | III           | 39            | 30       | 0.823 | 0.819 | 0.923 | 23.6 | 18.6 | 12.9 |       |       |       |
| 22                 | 0.522      | 0.518                        | 0.574                                   | 18.5       | 15.4       | 11.0   |                |               |               | 32       | 936   | 932   | 1.06  | 25.2 | 19.8 | 13.8 |       |       |       |
| 24                 | 611        | 605                          | 672                                     | 20.1       | 16.8       | 12.0   |                |               |               | 34       | 1.06  | 1.06  | 1.19  | 26.8 | 21.0 | 14.6 |       |       |       |
| 26                 | 721        | 716                          | 792                                     | 21.8       | 18.2       | 12.9   |                |               |               | 36       | 1.19  | 1.19  | 1.34  | 28.3 | 22.3 | 15.5 |       |       |       |
| 28                 | 835        | 830                          | 917                                     | 23.5       | 19.6       | 13.9   |                |               |               | 38       | 1.31  | 1.31  | 1.48  | 29.9 | 23.6 | 16.3 |       |       |       |
| 30                 | 958        | 953                          | 1.05                                    | 25.2       | 21.0       | 14.9   |                |               |               | 40       | 1.47  | 1.47  | 1.65  | 31.5 | 24.8 | 17.2 |       |       |       |
| 32                 | 1.09       | 1.09                         | 1.20                                    | 26.8       | 22.4       | 15.9   |                |               |               | 42       | 1.61  | 1.61  | 1.81  | 33.1 | 26.0 | 18.1 |       |       |       |
| 34                 | 1.23       | 1.23                         | 1.35                                    | 28.5       | 23.8       | 16.9   |                |               |               | 44       | 1.77  | 1.77  | 2.00  | 34.6 | 27.3 | 18.9 |       |       |       |
| 36                 | 1.38       | 1.38                         | 1.52                                    | 30.2       | 25.2       | 17.9   |                |               |               | 46       | 1.93  | 1.93  | 2.18  | 36.2 | 28.5 | 19.8 |       |       |       |
| 38                 | 1.53       | 1.53                         | 1.68                                    | 31.9       | 26.6       | 18.9   | 48             | 2.11          | 2.11          | 2.38     | 37.8  | 29.8  | 20.6  |      |      |      |       |       |       |
| 40                 | 1.71       | 1.71                         | 1.87                                    | 33.6       | 28.0       | 19.9   | 50             | 2.28          | 2.28          | 2.57     | 39.3  | 31.0  | 21.5  |      |      |      |       |       |       |
| 42                 | 1.87       | 1.87                         | 2.06                                    | 35.2       | 29.4       | 20.9   | 52             | 2.47          | 2.47          | 2.78     | 40.9  | 32.2  | 22.4  |      |      |      |       |       |       |
| 0.68               | IV         | 33                           | 24                                      | 0.590      | 0.585      | 0.653  | 19.9           | 16.3          | 11.5          | 0.60     | III   | 40    | 34    | 1.01 | 1.01 | 1.15 | 26.3  | 20.4  | 14.0  |
|                    |            |                              | 26                                      | 695        | 690        | 770    | 21.5           | 17.7          | 12.5          |          |       |       | 36    | 1.14 | 1.14 | 1.29 | 27.9  | 21.6  | 14.9  |
|                    |            |                              | 28                                      | 805        | 801        | 890    | 23.1           | 19.0          | 13.5          |          |       |       | 38    | 1.26 | 1.26 | 1.43 | 29.4  | 22.8  | 15.7  |
|                    |            |                              | 30                                      | 924        | 920        | 1.02   | 24.8           | 20.4          | 14.4          |          |       |       | 40    | 1.40 | 1.40 | 1.60 | 31.0  | 24.0  | 16.5  |
|                    |            |                              | 32                                      | 1.05       | 1.05       | 1.16   | 26.4           | 21.8          | 15.4          |          |       |       | 42    | 1.54 | 1.54 | 1.75 | 32.5  | 25.2  | 17.3  |
|                    |            |                              | 34                                      | 1.19       | 1.19       | 1.31   | 28.1           | 23.1          | 16.4          |          |       |       | 44    | 1.69 | 1.69 | 1.93 | 34.1  | 26.4  | 18.2  |
|                    |            |                              | 36                                      | 1.34       | 1.34       | 1.47   | 29.7           | 24.5          | 17.3          |          |       |       | 46    | 1.85 | 1.85 | 2.10 | 35.6  | 27.6  | 19.0  |
|                    |            |                              | 38                                      | 1.48       | 1.48       | 1.63   | 31.4           | 25.8          | 18.3          |          |       |       | 48    | 2.02 | 2.02 | 2.29 | 37.2  | 28.8  | 19.8  |
|                    |            |                              | 40                                      | 1.65       | 1.65       | 1.81   | 33.0           | 27.2          | 19.2          |          |       |       | 50    | 2.18 | 2.18 | 2.49 | 38.7  | 30.0  | 20.6  |
|                    |            |                              | 42                                      | 1.81       | 1.81       | 2.00   | 34.7           | 28.6          | 20.2          |          |       |       | 52    | 2.36 | 2.36 | 2.69 | 40.2  | 31.2  | 21.5  |
|                    |            |                              | 44                                      | 1.98       | 1.98       | 2.20   | 36.3           | 29.9          | 21.2          |          |       |       | 54    | 2.55 | 2.55 | 2.90 | 41.8  | 32.4  | 22.4  |
| 0.66               | IV         | 36                           | 28                                      | 0.775      | 0.771      | 0.862  | 22.8           | 18.5          | 12.9          | 56       | 2.74  | 2.74  | 3.12  | 43.3 | 33.6 | 23.2 |       |       |       |
|                    |            |                              | 30                                      | 889        | 885        | 990    | 24.4           | 19.8          | 13.9          | 38       | 1.20  | 1.20  | 1.38  | 28.9 | 22.0 | 15.1 |       |       |       |
|                    |            |                              | 32                                      | 1.01       | 1.01       | 1.12   | 26.0           | 21.1          | 14.8          | 40       | 1.34  | 1.34  | 1.55  | 30.4 | 23.2 | 15.9 |       |       |       |
|                    |            |                              | 34                                      | 1.14       | 1.14       | 1.26   | 27.6           | 22.4          | 15.7          | 42       | 1.47  | 1.47  | 1.70  | 32.0 | 24.4 | 16.7 |       |       |       |

## Höhe 28 m.

## Höhe 29 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |       | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      |          |  |  |          |  |  |
|--------------------|----------------|------------------------------|-------------------------------------------|------------|------------|--------|----------------|----------------|-------|--------------------|------------|------------------------------|-------------------------------------------|------------|------------|--------|----------------|------|------|----------|--|--|----------|--|--|
|                    |                |                              |                                           | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2            | 3/4   |                    |            |                              |                                           | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |          |  |  |          |  |  |
|                    |                |                              |                                           |            |            |        |                |                |       |                    |            |                              |                                           |            |            |        |                |      |      | der Höhe |  |  | der Höhe |  |  |
|                    |                |                              |                                           |            |            |        |                |                |       |                    |            |                              |                                           |            |            |        |                |      |      | cm       |  |  | cm       |  |  |
| cm                 | m <sup>3</sup> |                              |                                           | cm         |            |        | cm             | m <sup>3</sup> |       |                    | cm         |                              |                                           |            |            |        |                |      |      |          |  |  |          |  |  |
| 0.58               | III            | 42                           | 44                                        | 1.62       | 1.62       | 1.86   | 33.5           | 25.5           | 17.5  | 0.74               | V          | 28                           | 20                                        | 0.473      | 0.467      | 0.512  | 17.3           | 14.3 | 10.6 |          |  |  |          |  |  |
|                    |                |                              | 46                                        | 1.76       | 1.76       | 2.03   | 35.0           | 26.7           | 18.3  |                    |            |                              | 22                                        | 576        | 570        | 624    | 19.0           | 16.3 | 11.7 |          |  |  |          |  |  |
|                    |                |                              | 48                                        | 1.92       | 1.92       | 2.22   | 36.5           | 27.8           | 19.1  |                    |            |                              | 24                                        | 680        | 675        | 736    | 20.8           | 17.8 | 12.7 |          |  |  |          |  |  |
|                    |                |                              | 50                                        | 2.08       | 2.08       | 2.41   | 38.0           | 29.0           | 19.8  |                    |            |                              | 26                                        | 799        | 794        | 865    | 22.5           | 19.2 | 13.8 |          |  |  |          |  |  |
|                    |                |                              | 52                                        | 2.26       | 2.26       | 2.60   | 39.6           | 30.2           | 20.6  |                    |            |                              | 28                                        | 929        | 925        | 1.00   | 24.2           | 20.7 | 14.9 |          |  |  |          |  |  |
|                    |                |                              | 54                                        | 2.44       | 2.44       | 2.81   | 41.1           | 31.3           | 21.4  |                    |            |                              | 30                                        | 1.06       | 1.06       | 1.15   | 25.9           | 22.2 | 15.9 |          |  |  |          |  |  |
|                    |                |                              | 56                                        | 2.62       | 2.62       | 3.02   | 42.6           | 32.5           | 22.2  |                    |            |                              | 32                                        | 1.21       | 1.21       | 1.31   | 27.7           | 23.7 | 17.0 |          |  |  |          |  |  |
|                    |                |                              | 58                                        | 2.81       | 2.81       | 3.24   | 44.1           | 33.6           | 23.0  |                    |            |                              | 34                                        | 1.36       | 1.36       | 1.48   | 29.4           | 25.2 | 18.1 |          |  |  |          |  |  |
|                    |                |                              | 60                                        | 3.01       | 3.01       | 3.47   | 45.7           | 34.8           | 23.8  |                    |            |                              | 36                                        | 1.54       | 1.54       | 1.66   | 31.1           | 26.6 | 19.1 |          |  |  |          |  |  |
|                    |                |                              |                                           |            |            |        | 38             | 1.70           | 1.70  | 1.84               | 32.9       | 28.1                         | 20.2                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 0.56               | II             | 44                           | 44                                        | 1.55       | 1.55       | 1.80   | 32.9           | 24.6           | 16.7  | 0.72               | V          | 30                           | 22                                        | 0.556      | 0.550      | 0.604  | 18.7           | 15.8 | 11.3 |          |  |  |          |  |  |
|                    |                |                              | 46                                        | 1.67       | 1.67       | 1.96   | 34.4           | 25.8           | 17.5  |                    |            |                              | 24                                        | 656        | 651        | 714    | 20.4           | 17.3 | 12.4 |          |  |  |          |  |  |
|                    |                |                              | 48                                        | 1.84       | 1.84       | 2.14   | 35.9           | 26.9           | 18.2  |                    |            |                              | 26                                        | 772        | 767        | 839    | 22.2           | 18.7 | 13.4 |          |  |  |          |  |  |
|                    |                |                              | 50                                        | 2.00       | 2.00       | 2.32   | 37.4           | 28.0           | 19.0  |                    |            |                              | 28                                        | 897        | 893        | 975    | 23.9           | 20.2 | 14.4 |          |  |  |          |  |  |
|                    |                |                              | 52                                        | 2.16       | 2.16       | 2.51   | 38.9           | 29.1           | 19.8  |                    |            |                              | 30                                        | 1.03       | 1.03       | 1.12   | 25.6           | 21.6 | 15.4 |          |  |  |          |  |  |
|                    |                |                              | 54                                        | 2.33       | 2.33       | 2.71   | 40.4           | 30.2           | 20.5  |                    |            |                              | 32                                        | 1.17       | 1.17       | 1.27   | 27.3           | 23.0 | 16.5 |          |  |  |          |  |  |
|                    |                |                              | 56                                        | 2.51       | 2.51       | 2.91   | 41.9           | 31.4           | 21.3  |                    |            |                              | 34                                        | 1.32       | 1.32       | 1.43   | 29.0           | 24.5 | 17.5 |          |  |  |          |  |  |
|                    |                |                              | 58                                        | 2.69       | 2.69       | 3.12   | 43.4           | 32.5           | 22.0  |                    |            |                              | 36                                        | 1.48       | 1.48       | 1.61   | 30.7           | 25.9 | 18.5 |          |  |  |          |  |  |
|                    |                |                              | 60                                        | 2.88       | 2.88       | 3.35   | 44.9           | 33.6           | 22.8  |                    |            |                              | 38                                        | 1.64       | 1.64       | 1.79   | 32.4           | 27.4 | 19.6 |          |  |  |          |  |  |
| 62                 | 3.08           | 3.08                         | 3.58                                      | 46.4       | 34.7       | 23.6   | 40             | 1.83           | 1.83  | 1.99               | 34.1       | 28.8                         | 20.6                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 64                 | 3.28           | 3.28                         | 3.81                                      | 47.9       | 35.8       | 24.3   | 42             | 2.00           | 2.00  | 2.18               | 35.8       | 30.2                         | 21.6                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 66                 | 3.49           | 3.49                         | 4.05                                      | 49.4       | 37.0       | 25.1   |                |                |       |                    |            |                              |                                           |            |            |        |                |      |      |          |  |  |          |  |  |
| 0.54               | II             | 46                           | 50                                        | 1.90       | 1.90       | 2.23   | 36.8           | 27.0           | 18.1  | 0.70               | V          | 32                           | 24                                        | 0.634      | 0.629      | 0.694  | 20.1           | 16.8 | 11.9 |          |  |  |          |  |  |
|                    |                |                              | 52                                        | 2.05       | 2.05       | 2.42   | 38.2           | 28.1           | 18.8  |                    |            |                              | 26                                        | 745        | 740        | 816    | 21.8           | 18.2 | 12.9 |          |  |  |          |  |  |
|                    |                |                              | 54                                        | 2.22       | 2.22       | 2.61   | 39.7           | 29.2           | 19.5  |                    |            |                              | 28                                        | 866        | 862        | 949    | 23.5           | 19.6 | 13.9 |          |  |  |          |  |  |
|                    |                |                              | 56                                        | 2.38       | 2.38       | 2.80   | 41.2           | 30.2           | 20.3  |                    |            |                              | 30                                        | 992        | 988        | 1.09   | 25.2           | 21.0 | 14.9 |          |  |  |          |  |  |
|                    |                |                              | 58                                        | 2.56       | 2.56       | 3.00   | 42.6           | 31.3           | 21.0  |                    |            |                              | 32                                        | 1.13       | 1.13       | 1.23   | 26.8           | 22.4 | 15.9 |          |  |  |          |  |  |
|                    |                |                              | 60                                        | 2.74       | 2.74       | 3.22   | 44.1           | 32.4           | 21.7  |                    |            |                              | 34                                        | 1.27       | 1.27       | 1.39   | 28.5           | 23.8 | 16.9 |          |  |  |          |  |  |
|                    |                |                              | 62                                        | 2.93       | 2.93       | 3.44   | 45.6           | 33.5           | 22.4  |                    |            |                              | 36                                        | 1.43       | 1.43       | 1.57   | 30.2           | 25.2 | 17.9 |          |  |  |          |  |  |
|                    |                |                              | 64                                        | 3.12       | 3.12       | 3.67   | 47.0           | 34.6           | 23.2  |                    |            |                              | 38                                        | 1.59       | 1.59       | 1.74   | 31.9           | 26.6 | 18.9 |          |  |  |          |  |  |
|                    |                |                              | 66                                        | 3.31       | 3.31       | 3.90   | 48.5           | 35.6           | 23.9  |                    |            |                              | 40                                        | 1.77       | 1.77       | 1.93   | 33.6           | 28.0 | 19.9 |          |  |  |          |  |  |
| 68                 | 3.53           | 3.53                         | 4.15                                      | 50.0       | 36.7       | 24.6   | 42             | 1.94           | 1.94  | 2.12               | 35.2       | 29.4                         | 20.9                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 70                 | 3.74           | 3.74                         | 4.39                                      | 51.4       | 37.8       | 25.3   | 44             | 2.13           | 2.13  | 2.34               | 36.9       | 30.8                         | 21.9                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 72                 | 3.94           | 3.94                         | 4.64                                      | 52.9       | 38.9       | 26.1   |                |                |       |                    |            |                              |                                           |            |            |        |                |      |      |          |  |  |          |  |  |
| 74                 | 4.15           | 4.15                         | 4.88                                      | 54.4       | 40.0       | 26.8   |                |                |       |                    |            |                              |                                           |            |            |        |                |      |      |          |  |  |          |  |  |
| 0.68               | II             | 48                           | 58                                        | 2.43       | 2.43       | 2.89   | 41.9           | 30.2           | 20.0  | 0.68               | IV         | 33                           | 24                                        | 0.610      | 0.605      | 0.673  | 19.8           | 16.3 | 11.6 |          |  |  |          |  |  |
|                    |                |                              | 60                                        | 2.60       | 2.60       | 3.10   | 43.3           | 31.2           | 20.7  |                    |            |                              | 26                                        | 718        | 713        | 792    | 21.4           | 17.7 | 12.5 |          |  |  |          |  |  |
|                    |                |                              | 62                                        | 2.78       | 2.78       | 3.31   | 44.8           | 32.2           | 21.4  |                    |            |                              | 28                                        | 834        | 830        | 920    | 23.1           | 19.0 | 13.5 |          |  |  |          |  |  |
|                    |                |                              | 64                                        | 2.97       | 2.97       | 3.53   | 46.2           | 33.3           | 22.1  |                    |            |                              | 30                                        | 955        | 951        | 1.05   | 24.8           | 20.4 | 14.5 |          |  |  |          |  |  |
|                    |                |                              | 66                                        | 3.15       | 3.15       | 3.74   | 47.7           | 34.3           | 22.8  |                    |            |                              | 32                                        | 1.08       | 1.08       | 1.20   | 26.4           | 21.8 | 15.4 |          |  |  |          |  |  |
|                    |                |                              | 68                                        | 3.35       | 3.35       | 3.99   | 49.1           | 35.4           | 23.5  |                    |            |                              | 34                                        | 1.23       | 1.23       | 1.35   | 28.0           | 23.1 | 16.4 |          |  |  |          |  |  |
|                    |                |                              | 70                                        | 3.55       | 3.55       | 4.22   | 50.5           | 36.4           | 24.6  |                    |            |                              | 36                                        | 1.38       | 1.38       | 1.52   | 29.7           | 24.5 | 17.4 |          |  |  |          |  |  |
|                    |                |                              | 72                                        | 3.75       | 3.75       | 4.46   | 52.0           | 37.4           | 24.8  |                    |            |                              | 38                                        | 1.53       | 1.53       | 1.68   | 31.3           | 25.8 | 18.3 |          |  |  |          |  |  |
|                    |                |                              | 74                                        | 3.95       | 3.95       | 4.69   | 53.4           | 38.5           | 25.5  |                    |            |                              | 40                                        | 1.70       | 1.70       | 1.88   | 33.0           | 27.2 | 19.3 |          |  |  |          |  |  |
| 76                 | 4.18           | 4.18                         | 5.00                                      | 54.9       | 39.5       | 26.2   | 42             | 1.87           | 1.87  | 2.06               | 34.6       | 28.6                         | 20.2                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 78                 | 4.41           | 4.41                         | 5.24                                      | 56.3       | 40.6       | 26.9   | 44             | 2.06           | 2.06  | 2.27               | 36.3       | 29.9                         | 21.2                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 80                 | 4.64           | 4.64                         | 5.51                                      | 57.8       | 41.6       | 27.6   | 28             | 0.803          | 0.799 | 0.891              | 22.7       | 18.5                         | 13.0                                      |            |            |        |                |      |      |          |  |  |          |  |  |
| 82                 | 4.87           | 4.87                         | 5.79                                      | 59.2       | 42.6       | 28.3   | 30             | 920            | 916   | 1.02               | 24.4       | 19.8                         | 13.9                                      |            |            |        |                |      |      |          |  |  |          |  |  |
|                    |                |                              |                                           |            |            |        | 32             | 1.05           | 1.05  | 1.16               | 26.0       | 21.1                         | 14.8                                      |            |            |        |                |      |      |          |  |  |          |  |  |
|                    |                |                              |                                           |            |            |        | 34             | 1.18           | 1.18  | 1.31               | 27.6       | 22.4                         | 15.7                                      |            |            |        |                |      |      |          |  |  |          |  |  |

Höhe 29 m.

Höhe 29 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |
|                    |            |                              |                                         |            |            |        |                |               |               |
|                    |            |                              |                                         |            |            |        |                |               |               |
|                    |            |                              | cm                                      | $m^3$      |            |        | cm             |               |               |
| 0-66               | IV         | 35                           | 33                                      | 1.33       | 1.33       | 1.47   | 29.2           | 23.8          | 16.7          |
|                    |            |                              | 38                                      | 1.47       | 1.47       | 1.63   | 30.8           | 25.1          | 17.6          |
|                    |            |                              | 40                                      | 1.64       | 1.64       | 1.82   | 32.5           | 26.4          | 18.5          |
|                    |            |                              | 42                                      | 1.80       | 1.80       | 2.00   | 34.1           | 27.7          | 19.4          |
|                    |            |                              | 44                                      | 1.98       | 1.98       | 2.20   | 35.7           | 29.0          | 20.4          |
|                    |            |                              | 46                                      | 2.16       | 2.16       | 2.40   | 37.4           | 30.4          | 21.3          |
|                    |            |                              | 48                                      | 2.36       | 2.36       | 2.61   | 39.0           | 31.7          | 22.2          |
|                    |            |                              | 50                                      | 2.55       | 2.55       | 2.83   | 40.6           | 33.0          | 23.1          |
| 0-64               | IV         | 37                           | 28                                      | 0.771      | 0.767      | 0.864  | 22.4           | 17.9          | 12.5          |
|                    |            |                              | 30                                      | 884        | 880        | 990    | 24.0           | 19.2          | 13.4          |
|                    |            |                              | 32                                      | 1.00       | 1.00       | 1.12   | 25.6           | 20.5          | 14.3          |
|                    |            |                              | 34                                      | 1.13       | 1.13       | 1.27   | 27.2           | 21.8          | 15.2          |
|                    |            |                              | 36                                      | 1.27       | 1.27       | 1.43   | 28.8           | 23.0          | 16.1          |
|                    |            |                              | 38                                      | 1.41       | 1.41       | 1.58   | 30.4           | 24.3          | 17.0          |
|                    |            |                              | 40                                      | 1.57       | 1.57       | 1.76   | 32.0           | 25.6          | 17.9          |
|                    |            |                              | 42                                      | 1.73       | 1.73       | 1.94   | 33.6           | 26.9          | 18.8          |
|                    |            |                              | 44                                      | 1.90       | 1.90       | 2.13   | 35.2           | 28.2          | 19.7          |
|                    |            |                              | 46                                      | 2.07       | 2.07       | 2.32   | 36.8           | 29.4          | 20.6          |
| 0-62               | III        | 39                           | 32                                      | 0.097      | 0.093      | 1.08   | 25.2           | 19.8          | 13.8          |
|                    |            |                              | 34                                      | 1.09       | 1.09       | 1.22   | 26.7           | 21.0          | 14.7          |
|                    |            |                              | 36                                      | 1.23       | 1.23       | 1.38   | 28.3           | 22.3          | 15.5          |
|                    |            |                              | 38                                      | 1.36       | 1.36       | 1.53   | 29.9           | 23.6          | 16.4          |
|                    |            |                              | 40                                      | 1.51       | 1.51       | 1.70   | 31.4           | 24.8          | 17.2          |
|                    |            |                              | 42                                      | 1.67       | 1.67       | 1.87   | 33.0           | 26.0          | 18.1          |
|                    |            |                              | 44                                      | 1.83       | 1.83       | 2.06   | 34.6           | 27.3          | 19.0          |
|                    |            |                              | 46                                      | 2.00       | 2.00       | 2.24   | 36.2           | 28.5          | 19.8          |
|                    |            |                              | 48                                      | 2.18       | 2.18       | 2.45   | 37.7           | 29.8          | 20.7          |
|                    |            |                              | 50                                      | 2.36       | 2.36       | 2.65   | 39.3           | 31.0          | 21.6          |
| 0-60               | III        | 40                           | 52                                      | 2.55       | 2.55       | 2.86   | 40.9           | 32.2          | 22.4          |
|                    |            |                              | 54                                      | 2.76       | 2.76       | 3.09   | 42.4           | 33.5          | 23.3          |
|                    |            |                              | 36                                      | 1.18       | 1.18       | 1.33   | 27.8           | 21.6          | 14.9          |
|                    |            |                              | 38                                      | 1.30       | 1.30       | 1.48   | 29.4           | 22.8          | 15.7          |
|                    |            |                              | 40                                      | 1.45       | 1.45       | 1.65   | 30.9           | 24.0          | 16.6          |
|                    |            |                              | 42                                      | 1.60       | 1.60       | 1.81   | 32.5           | 25.2          | 17.4          |
|                    |            |                              | 44                                      | 1.76       | 1.75       | 1.99   | 34.0           | 26.4          | 18.2          |
|                    |            |                              | 46                                      | 1.91       | 1.91       | 2.17   | 35.6           | 27.6          | 19.0          |
|                    |            |                              | 48                                      | 2.09       | 2.09       | 2.37   | 37.1           | 28.8          | 19.9          |
|                    |            |                              | 50                                      | 2.26       | 2.26       | 2.56   | 38.6           | 30.0          | 20.7          |
| 0-58               | III        | 42                           | 52                                      | 2.45       | 2.45       | 2.77   | 40.2           | 31.2          | 21.5          |
|                    |            |                              | 54                                      | 2.64       | 2.64       | 2.99   | 41.7           | 32.4          | 22.4          |
|                    |            |                              | 56                                      | 2.84       | 2.84       | 3.21   | 43.3           | 33.6          | 23.2          |
|                    |            |                              | 58                                      | 3.05       | 3.05       | 3.45   | 44.8           | 34.8          | 24.0          |
|                    |            |                              | 42                                      | 1.60       | 1.60       | 1.75   | 31.9           | 24.3          | 16.7          |
|                    |            |                              | 44                                      | 1.76       | 1.76       | 1.92   | 33.4           | 25.5          | 17.5          |
|                    |            |                              | 46                                      | 1.91       | 1.91       | 2.09   | 35.0           | 26.7          | 18.3          |
|                    |            |                              | 0-56                                    | II         | 44         | 48     | 2.09           | 2.09          | 2.28          |
| 50                 | 2.26       | 2.26                         |                                         |            |            | 2.47   | 38.0           | 29.0          | 19.9          |
| 52                 | 2.45       | 2.45                         |                                         |            |            | 2.67   | 39.5           | 30.2          | 20.7          |
| 54                 | 2.64       | 2.64                         |                                         |            |            | 2.89   | 41.0           | 31.3          | 21.5          |
| 56                 | 2.84       | 2.84                         |                                         |            |            | 3.10   | 42.6           | 32.5          | 22.3          |
| 58                 | 3.05       | 3.05                         |                                         |            |            | 3.33   | 44.1           | 33.6          | 23.1          |
| 60                 | 3.27       | 3.27                         |                                         |            |            | 3.57   | 45.6           | 34.8          | 23.9          |
| 62                 | 3.49       | 3.49                         |                                         |            |            | 3.81   | 47.1           | 36.0          | 24.7          |
| 0-54               | II         | 46                           | 64                                      | 3.72       | 3.72       | 4.06   | 48.6           | 37.1          | 25.5          |
|                    |            |                              | 46                                      | 1.75       | 1.75       | 2.02   | 34.4           | 25.8          | 17.5          |
|                    |            |                              | 48                                      | 1.91       | 1.91       | 2.20   | 35.9           | 26.9          | 18.3          |
|                    |            |                              | 50                                      | 2.06       | 2.06       | 2.39   | 37.3           | 28.0          | 19.0          |
|                    |            |                              | 52                                      | 2.23       | 2.23       | 2.58   | 38.8           | 29.1          | 19.8          |
|                    |            |                              | 54                                      | 2.41       | 2.41       | 2.79   | 40.3           | 30.2          | 20.6          |
|                    |            |                              | 56                                      | 2.59       | 2.59       | 2.99   | 41.8           | 31.4          | 21.3          |
|                    |            |                              | 58                                      | 2.78       | 2.78       | 3.22   | 43.3           | 32.5          | 22.1          |
| 0-52               | II         | 47                           | 60                                      | 2.98       | 2.98       | 3.48   | 44.8           | 33.6          | 22.9          |
|                    |            |                              | 62                                      | 3.18       | 3.18       | 3.68   | 46.3           | 34.7          | 23.6          |
|                    |            |                              | 64                                      | 3.39       | 3.39       | 3.92   | 47.8           | 35.8          | 24.4          |
|                    |            |                              | 66                                      | 3.60       | 3.60       | 4.17   | 49.3           | 37.0          | 25.1          |
|                    |            |                              | 68                                      | 3.81       | 3.81       | 4.41   | 50.8           | 38.1          | 25.9          |
|                    |            |                              | 50                                      | 1.96       | 1.96       | 2.30   | 36.7           | 27.0          | 18.1          |
|                    |            |                              | 52                                      | 2.13       | 2.13       | 2.49   | 38.2           | 28.1          | 18.9          |
|                    |            |                              | 54                                      | 2.30       | 2.30       | 2.69   | 39.6           | 29.2          | 19.6          |
| 0-50               | II         | 48                           | 56                                      | 2.47       | 2.47       | 2.89   | 41.1           | 30.2          | 20.3          |
|                    |            |                              | 58                                      | 2.65       | 2.65       | 3.10   | 42.6           | 31.3          | 21.1          |
|                    |            |                              | 60                                      | 2.84       | 2.84       | 3.32   | 44.0           | 32.4          | 21.8          |
|                    |            |                              | 62                                      | 3.03       | 3.03       | 3.55   | 45.5           | 33.5          | 22.5          |
|                    |            |                              | 64                                      | 3.23       | 3.23       | 3.78   | 47.0           | 34.6          | 23.2          |
|                    |            |                              | 66                                      | 3.43       | 3.43       | 4.02   | 48.4           | 35.6          | 24.0          |
|                    |            |                              | 68                                      | 3.63       | 3.63       | 4.25   | 49.9           | 36.7          | 24.7          |
|                    |            |                              | 70                                      | 3.87       | 3.87       | 4.54   | 51.4           | 37.8          | 25.4          |
| 0-48               | II         | 49                           | 72                                      | 4.08       | 4.08       | 4.78   | 52.8           | 38.9          | 26.1          |
|                    |            |                              | 74                                      | 4.32       | 4.32       | 5.06   | 54.3           | 40.0          | 26.9          |
|                    |            |                              | 62                                      | 2.88       | 2.88       | 3.41   | 44.7           | 32.2          | 21.5          |
|                    |            |                              | 64                                      | 3.07       | 3.07       | 3.63   | 46.1           | 33.3          | 22.1          |
|                    |            |                              | 66                                      | 3.26       | 3.26       | 3.86   | 47.6           | 34.3          | 22.8          |
|                    |            |                              | 68                                      | 3.45       | 3.45       | 4.08   | 49.0           | 35.4          | 23.5          |
|                    |            |                              | 70                                      | 3.68       | 3.68       | 4.36   | 50.5           | 36.4          | 24.2          |
|                    |            |                              | 72                                      | 3.88       | 3.88       | 4.59   | 51.9           | 37.4          | 24.9          |
| 0-46               | II         | 50                           | 74                                      | 4.11       | 4.11       | 4.86   | 53.4           | 38.5          | 25.6          |
|                    |            |                              | 76                                      | 4.32       | 4.32       | 5.11   | 54.8           | 39.5          | 26.3          |
|                    |            |                              | 78                                      | 4.57       | 4.57       | 5.40   | 56.2           | 40.6          | 27.0          |
|                    |            |                              | 80                                      | 4.80       | 4.80       | 5.69   | 57.7           | 41.6          | 27.7          |
|                    |            |                              | 82                                      | 5.03       | 5.03       | 5.95   | 59.1           | 42.6          | 28.4          |
|                    |            |                              | 84                                      | 5.28       | 5.28       | 6.23   | 60.6           | 43.7          | 29.1          |
|                    |            |                              | 86                                      | 5.53       | 5.53       | 6.55   | 62.0           | 44.7          | 29.8          |

Höhe 30 m.

Höhe 30 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |               | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |  |  |          |  |  |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|----------------|---------------|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|--|--|----------|--|--|
|                    |                |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$  | $\frac{3}{4}$ |                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |  |  |          |  |  |
|                    |                |                              |                                         |            |            |        |                |                |               |                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |  |  | der Höhe |  |  |
|                    |                |                              |                                         |            |            |        |                |                |               |                    |            |                              |                                         |            |            |        |                |               |               | cm       |  |  | cm       |  |  |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |            |        | cm             | m <sup>3</sup> |               |                    | cm         |                              |                                         |            |            |        |                |               |               |          |  |  |          |  |  |
| 0.74               | V              | 28                           | 20                                      | 0.488      | 0.481      | 0.526  | 17.3           | 14.8           | 10.6          | 0.66               | IV         | 35                           | 36                                      | 1.38       | 1.38       | 1.51   | 29.2           | 23.8          | 16.7          |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 601        | 595        | 648    | 19.0           | 16.3           | 11.7          |                    |            |                              | 38                                      | 1.52       | 1.52       | 1.68   | 30.8           | 25.1          | 17.6          |          |  |  |          |  |  |
|                    |                |                              | 24                                      | 704        | 698        | 761    | 20.8           | 17.8           | 12.8          |                    |            |                              | 40                                      | 1.69       | 1.69       | 1.87   | 32.4           | 26.4          | 18.6          |          |  |  |          |  |  |
|                    |                |                              | 26                                      | 824        | 819        | 889    | 22.5           | 19.2           | 13.8          |                    |            |                              | 42                                      | 1.86       | 1.86       | 2.05   | 34.1           | 27.7          | 19.5          |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 958        | 953        | 1.03   | 24.2           | 20.7           | 14.9          |                    |            |                              | 44                                      | 2.04       | 2.04       | 2.26   | 35.7           | 29.0          | 20.4          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 1.10       | 1.10       | 1.18   | 25.9           | 22.2           | 15.9          |                    |            |                              | 46                                      | 2.23       | 2.23       | 2.46   | 37.3           | 30.4          | 21.3          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 1.25       | 1.25       | 1.35   | 27.7           | 23.7           | 17.0          |                    |            |                              | 48                                      | 2.43       | 2.43       | 2.69   | 38.9           | 31.7          | 22.3          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 1.41       | 1.41       | 1.52   | 29.4           | 25.2           | 18.1          |                    |            |                              | 50                                      | 2.63       | 2.63       | 2.91   | 40.6           | 33.0          | 23.2          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1.58       | 1.58       | 1.71   | 31.1           | 26.6           | 19.2          |                    |            |                              |                                         |            |            |        |                |               |               |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1.76       | 1.76       | 1.90   | 32.9           | 28.1           | 20.2          |                    |            |                              |                                         |            |            |        |                |               |               |          |  |  |          |  |  |
| 0.72               | V              | 29                           | 20                                      | 0.472      | 0.466      | 0.513  | 17.0           | 14.4           | 10.3          | 0.64               | IV         | 36                           | 32                                      | 1.04       | 1.04       | 1.16   | 25.5           | 20.5          | 14.3          |          |  |  |          |  |  |
|                    |                |                              | 22                                      | 581        | 575        | 632    | 18.7           | 15.8           | 11.3          |                    |            |                              | 34                                      | 1.17       | 1.17       | 1.31   | 27.1           | 21.8          | 15.2          |          |  |  |          |  |  |
|                    |                |                              | 24                                      | 681        | 675        | 741    | 20.4           | 17.3           | 12.4          |                    |            |                              | 36                                      | 1.32       | 1.32       | 1.47   | 28.7           | 23.0          | 16.1          |          |  |  |          |  |  |
|                    |                |                              | 26                                      | 797        | 792        | 866    | 22.1           | 18.7           | 13.4          |                    |            |                              | 38                                      | 1.46       | 1.46       | 1.63   | 30.3           | 24.3          | 17.0          |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 927        | 922        | 1.00   | 23.8           | 20.2           | 14.4          |                    |            |                              | 40                                      | 1.63       | 1.63       | 1.81   | 31.9           | 25.6          | 17.9          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 1.06       | 1.06       | 1.15   | 25.5           | 21.6           | 15.4          |                    |            |                              | 42                                      | 1.79       | 1.79       | 1.99   | 33.5           | 26.9          | 18.8          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 1.21       | 1.21       | 1.31   | 27.2           | 23.0           | 16.5          |                    |            |                              | 44                                      | 1.96       | 1.96       | 2.19   | 35.1           | 28.2          | 19.7          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 1.36       | 1.36       | 1.48   | 28.9           | 24.5           | 17.5          |                    |            |                              | 46                                      | 2.15       | 2.15       | 2.39   | 36.7           | 29.4          | 20.6          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1.53       | 1.53       | 1.67   | 30.6           | 25.9           | 18.5          |                    |            |                              | 48                                      | 2.34       | 2.34       | 2.61   | 38.3           | 30.7          | 21.5          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1.70       | 1.70       | 1.85   | 32.3           | 27.4           | 19.6          |                    |            |                              | 50                                      | 2.53       | 2.53       | 2.82   | 39.9           | 32.0          | 22.4          |          |  |  |          |  |  |
| 40                 | 1.89           | 1.89                         | 2.06                                    | 34.0       | 28.8       | 20.6   | 52             | 2.74           | 2.74          | 3.05               | 41.5       | 33.3                         | 23.3                                    |            |            |        |                |               |               |          |  |  |          |  |  |
| 0.70               | V              | 32                           | 24                                      | 0.657      | 0.651      | 0.717  | 20.1           | 16.8           | 12.0          | 0.62               | III        | 39                           | 34                                      | 1.13       | 1.13       | 1.26   | 26.7           | 21.0          | 14.7          |          |  |  |          |  |  |
|                    |                |                              | 26                                      | 768        | 763        | 838    | 21.8           | 18.2           | 13.0          |                    |            |                              | 36                                      | 1.27       | 1.27       | 1.42   | 28.3           | 22.3          | 15.6          |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 894        | 889        | 975    | 23.5           | 19.6           | 14.0          |                    |            |                              | 38                                      | 1.40       | 1.40       | 1.57   | 29.8           | 23.6          | 16.4          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 1.02       | 1.02       | 1.12   | 25.1           | 21.0           | 15.0          |                    |            |                              | 40                                      | 1.56       | 1.56       | 1.75   | 31.4           | 24.8          | 17.3          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 1.16       | 1.16       | 1.27   | 26.8           | 22.4           | 16.0          |                    |            |                              | 42                                      | 1.72       | 1.72       | 1.92   | 33.0           | 26.0          | 18.1          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 1.31       | 1.31       | 1.43   | 28.5           | 23.8           | 17.0          |                    |            |                              | 44                                      | 1.89       | 1.89       | 2.11   | 34.5           | 27.3          | 19.0          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1.48       | 1.48       | 1.61   | 30.2           | 25.2           | 18.0          |                    |            |                              | 46                                      | 2.06       | 2.06       | 2.30   | 36.1           | 28.5          | 19.9          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1.64       | 1.64       | 1.80   | 31.8           | 26.6           | 19.0          |                    |            |                              | 48                                      | 2.25       | 2.25       | 2.51   | 37.7           | 29.8          | 20.7          |          |  |  |          |  |  |
|                    |                |                              | 40                                      | 1.83       | 1.83       | 1.99   | 33.5           | 28.0           | 20.0          |                    |            |                              | 50                                      | 2.43       | 2.43       | 2.72   | 39.2           | 31.0          | 21.6          |          |  |  |          |  |  |
|                    |                |                              | 42                                      | 2.00       | 2.00       | 2.19   | 35.2           | 29.4           | 21.0          |                    |            |                              | 52                                      | 2.63       | 2.63       | 2.94   | 40.8           | 32.2          | 22.5          |          |  |  |          |  |  |
| 44                 | 2.20           | 2.20                         | 2.40                                    | 36.9       | 30.8       | 22.0   | 54             | 2.84           | 2.84          | 3.18               | 42.4       | 33.5                         | 23.3                                    |            |            |        |                |               |               |          |  |  |          |  |  |
| 56                 | 3.06           | 3.06                         | 3.42                                    | 44.0       | 34.7       | 24.2   |                |                |               |                    |            |                              |                                         |            |            |        |                |               |               |          |  |  |          |  |  |
| 0.68               | IV             | 33                           | 26                                      | 0.741      | 0.736      | 0.814  | 21.4           | 17.7           | 12.5          | 0.60               | III        | 40                           | 38                                      | 1.34       | 1.34       | 1.52   | 29.3           | 22.8          | 15.7          |          |  |  |          |  |  |
|                    |                |                              | 28                                      | 862        | 857        | 947    | 23.1           | 19.0           | 13.5          |                    |            |                              | 40                                      | 1.50       | 1.50       | 1.69   | 30.9           | 24.0          | 16.6          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 988        | 983        | 1.08   | 24.7           | 20.4           | 14.5          |                    |            |                              | 42                                      | 1.65       | 1.65       | 1.86   | 32.4           | 25.2          | 17.4          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 1.12       | 1.12       | 1.23   | 26.4           | 21.8           | 15.4          |                    |            |                              | 44                                      | 1.81       | 1.81       | 2.04   | 34.0           | 26.4          | 18.3          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 1.27       | 1.27       | 1.39   | 28.0           | 23.1           | 16.4          |                    |            |                              | 46                                      | 1.98       | 1.98       | 2.23   | 35.5           | 27.6          | 19.1          |          |  |  |          |  |  |
|                    |                |                              | 36                                      | 1.42       | 1.42       | 1.57   | 29.7           | 24.5           | 17.4          |                    |            |                              | 48                                      | 2.16       | 2.16       | 2.43   | 37.1           | 28.8          | 19.9          |          |  |  |          |  |  |
|                    |                |                              | 38                                      | 1.58       | 1.58       | 1.74   | 31.3           | 25.8           | 18.3          |                    |            |                              | 50                                      | 2.33       | 2.33       | 2.63   | 38.6           | 30.0          | 20.7          |          |  |  |          |  |  |
|                    |                |                              | 40                                      | 1.76       | 1.76       | 1.93   | 33.0           | 27.2           | 19.3          |                    |            |                              | 52                                      | 2.52       | 2.52       | 2.85   | 40.1           | 31.2          | 21.6          |          |  |  |          |  |  |
|                    |                |                              | 42                                      | 1.93       | 1.93       | 2.15   | 34.6           | 28.6           | 20.2          |                    |            |                              | 54                                      | 2.73       | 2.73       | 3.08   | 41.7           | 32.4          | 22.4          |          |  |  |          |  |  |
|                    |                |                              | 44                                      | 2.12       | 2.12       | 2.33   | 36.3           | 29.9           | 21.2          |                    |            |                              | 56                                      | 2.93       | 2.93       | 3.31   | 43.2           | 33.6          | 23.2          |          |  |  |          |  |  |
| 46                 | 2.32           | 2.32                         | 2.55                                    | 37.9       | 31.3       | 22.2   | 58             | 3.14           | 3.14          | 3.55               | 44.8       | 34.8                         | 24.1                                    |            |            |        |                |               |               |          |  |  |          |  |  |
| 0.66               | IV             | 35                           | 28                                      | 0.829      | 0.824      | 0.916  | 22.7           | 18.5           | 13.0          | 0.58               | III        | 42                           | 60                                      | 3.37       | 3.37       | 3.80   | 46.3           | 36.0          | 24.9          |          |  |  |          |  |  |
|                    |                |                              | 30                                      | 950        | 946        | 1.05   | 24.3           | 19.8           | 13.9          |                    |            |                              | 42                                      | 1.57       | 1.57       | 1.80   | 31.9           | 24.4          | 16.7          |          |  |  |          |  |  |
|                    |                |                              | 32                                      | 1.08       | 1.08       | 1.19   | 26.0           | 21.1           | 14.8          |                    |            |                              | 44                                      | 1.73       | 1.73       | 1.97   | 33.4           | 25.5          | 17.5          |          |  |  |          |  |  |
|                    |                |                              | 34                                      | 1.22       | 1.22       | 1.35   | 27.6           | 22.4           | 15.8          |                    |            |                              | 46                                      | 1.89       | 1.89       | 2.16   | 34.9           | 26.7          | 18.3          |          |  |  |          |  |  |

## Höhe 30 m.

## Höhe 31 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |                |        | Durchmesser in |      |      |
|--------------------|------------|------------------------------|-----------------------------------------|------------|----------------|--------|----------------|------|------|
|                    |            |                              |                                         | Schafte    | Derbholzes     | Baumes | 1/4            | 1/2  | 3/4  |
|                    |            |                              |                                         |            |                |        | der Höhe       |      |      |
|                    |            |                              | cm                                      |            | m <sup>3</sup> |        | cm             |      |      |
| 0.58               | III        | 42                           | 48                                      | 2.06       | 2.06           | 2.35   | 36.4           | 27.8 | 19.1 |
|                    |            |                              | 50                                      | 2.23       | 2.23           | 2.55   | 37.9           | 29.0 | 19.9 |
|                    |            |                              | 52                                      | 2.41       | 2.41           | 2.75   | 39.5           | 30.2 | 20.7 |
|                    |            |                              | 54                                      | 2.60       | 2.60           | 2.97   | 41.0           | 31.3 | 21.5 |
|                    |            |                              | 56                                      | 2.80       | 2.80           | 3.19   | 41.7           | 32.5 | 22.2 |
|                    |            |                              | 58                                      | 3.00       | 3.00           | 3.43   | 44.0           | 33.6 | 23.1 |
|                    |            |                              | 60                                      | 3.22       | 3.22           | 3.68   | 45.5           | 34.8 | 23.9 |
|                    |            |                              | 62                                      | 3.43       | 3.43           | 3.92   | 47.1           | 36.0 | 24.7 |
|                    |            |                              | 64                                      | 3.66       | 3.66           | 4.18   | 48.6           | 37.1 | 25.5 |
| 0.56               | II         | 43                           | 48                                      | 1.96       | 1.96           | 2.26   | 35.8           | 26.9 | 18.3 |
|                    |            |                              | 50                                      | 2.13       | 2.13           | 2.45   | 37.3           | 28.2 | 19.1 |
|                    |            |                              | 52                                      | 2.30       | 2.30           | 2.65   | 38.8           | 29.1 | 19.9 |
|                    |            |                              | 54                                      | 2.49       | 2.49           | 2.86   | 40.3           | 30.2 | 20.6 |
|                    |            |                              | 56                                      | 2.67       | 2.67           | 3.08   | 41.8           | 31.4 | 21.4 |
|                    |            |                              | 58                                      | 2.87       | 2.87           | 3.30   | 43.3           | 32.5 | 22.2 |
|                    |            |                              | 60                                      | 3.07       | 3.07           | 3.54   | 44.8           | 33.6 | 22.9 |
|                    |            |                              | 62                                      | 3.28       | 3.28           | 3.78   | 46.3           | 34.7 | 23.7 |
|                    |            |                              | 64                                      | 3.50       | 3.50           | 4.03   | 47.7           | 35.8 | 24.4 |
|                    |            |                              | 66                                      | 3.71       | 3.71           | 4.27   | 49.2           | 37.0 | 25.3 |
| 0.54               | II         | 46                           | 68                                      | 3.94       | 3.94           | 4.54   | 50.7           | 38.1 | 26.0 |
|                    |            |                              | 70                                      | 4.17       | 4.17           | 4.81   | 52.2           | 39.2 | 26.7 |
|                    |            |                              | 54                                      | 2.37       | 2.37           | 2.76   | 39.6           | 29.2 | 19.7 |
|                    |            |                              | 56                                      | 2.55       | 2.55           | 2.97   | 41.0           | 30.2 | 20.4 |
|                    |            |                              | 58                                      | 2.73       | 2.73           | 3.18   | 42.5           | 31.3 | 21.1 |
|                    |            |                              | 60                                      | 2.93       | 2.93           | 3.41   | 44.0           | 32.4 | 21.8 |
|                    |            |                              | 62                                      | 3.12       | 3.12           | 3.64   | 45.4           | 33.5 | 22.6 |
|                    |            |                              | 64                                      | 3.33       | 3.33           | 3.88   | 46.9           | 34.6 | 23.3 |
|                    |            |                              | 66                                      | 3.53       | 3.53           | 4.12   | 48.4           | 35.6 | 24.0 |
|                    |            |                              | 68                                      | 3.76       | 3.76           | 4.38   | 49.8           | 36.7 | 24.8 |
| 0.52               | II         | 47                           | 70                                      | 3.98       | 3.98           | 4.63   | 51.3           | 37.8 | 25.5 |
|                    |            |                              | 72                                      | 4.21       | 4.21           | 4.90   | 52.8           | 38.9 | 26.2 |
|                    |            |                              | 74                                      | 4.45       | 4.45           | 5.19   | 54.2           | 40.0 | 26.9 |
|                    |            |                              | 76                                      | 4.69       | 4.69           | 5.46   | 55.7           | 41.0 | 27.7 |
|                    |            |                              | 78                                      | 4.95       | 4.95           | 5.76   | 57.2           | 42.1 | 28.4 |
|                    |            |                              | 62                                      | 2.97       | 2.97           | 3.50   | 44.6           | 32.2 | 21.5 |
|                    |            |                              | 64                                      | 3.17       | 3.17           | 3.73   | 46.0           | 33.3 | 22.2 |
|                    |            |                              | 66                                      | 3.35       | 3.35           | 3.95   | 47.5           | 34.3 | 22.9 |
|                    |            |                              | 68                                      | 3.57       | 3.57           | 4.21   | 49.0           | 35.4 | 23.6 |
|                    |            |                              | 70                                      | 3.78       | 3.78           | 4.45   | 50.4           | 36.4 | 24.2 |
| 0.68               | IV         | 33                           | 72                                      | 4.00       | 4.00           | 4.71   | 51.8           | 37.4 | 25.0 |
|                    |            |                              | 74                                      | 4.23       | 4.23           | 4.98   | 53.3           | 38.5 | 25.7 |
|                    |            |                              | 76                                      | 4.46       | 4.46           | 5.25   | 54.7           | 39.5 | 26.4 |
|                    |            |                              | 78                                      | 4.70       | 4.70           | 5.52   | 56.2           | 40.6 | 27.1 |
|                    |            |                              | 80                                      | 4.95       | 4.95           | 5.83   | 57.6           | 41.6 | 27.8 |
|                    |            |                              | 82                                      | 5.18       | 5.18           | 6.10   | 59.0           | 42.6 | 28.4 |
|                    |            |                              | 84                                      | 5.44       | 5.44           | 6.41   | 60.5           | 43.7 | 28.1 |
|                    |            |                              | 86                                      | 5.71       | 5.71           | 6.72   | 61.9           | 44.7 | 29.8 |
| 0.74               | V          | 27                           | 20                                      | 0.504      | 0.497          | 0.542  | 17.3           | 14.8 | 10.6 |
|                    |            |                              | 22                                      | 622        | 618            | 668    | 19.0           | 16.3 | 11.7 |
|                    |            |                              | 24                                      | 725        | 710            | 780    | 20.7           | 17.8 | 12.8 |
|                    |            |                              | 26                                      | 855        | 850            | 919    | 22.5           | 19.2 | 13.8 |
|                    |            |                              | 28                                      | 989        | 984            | 1.06   | 24.2           | 20.7 | 14.9 |
|                    |            |                              | 30                                      | 1.13       | 1.13           | 1.22   | 25.9           | 22.2 | 16.0 |
|                    |            |                              | 32                                      | 1.29       | 1.29           | 1.39   | 27.6           | 23.7 | 17.0 |
|                    |            |                              | 34                                      | 1.45       | 1.45           | 1.56   | 29.4           | 25.2 | 18.1 |
|                    |            |                              | 36                                      | 1.64       | 1.64           | 1.76   | 31.1           | 26.6 | 19.2 |
|                    |            |                              | 38                                      | 1.81       | 1.81           | 1.95   | 32.8           | 28.1 | 20.2 |
| 0.72               | V          | 29                           | 22                                      | 0.600      | 0.594          | 0.648  | 18.7           | 15.8 | 11.4 |
|                    |            |                              | 24                                      | 700        | 694            | 756    | 20.4           | 17.3 | 12.4 |
|                    |            |                              | 26                                      | 820        | 815            | 891    | 22.1           | 18.7 | 13.4 |
|                    |            |                              | 28                                      | 955        | 950            | 1.03   | 23.8           | 20.2 | 14.4 |
|                    |            |                              | 30                                      | 1.09       | 1.09           | 1.62   | 25.5           | 21.6 | 15.5 |
|                    |            |                              | 32                                      | 1.24       | 1.24           | 1.73   | 27.2           | 23.0 | 16.5 |
|                    |            |                              | 34                                      | 1.40       | 1.40           | 1.84   | 28.9           | 24.5 | 17.5 |
|                    |            |                              | 36                                      | 1.58       | 1.58           | 1.71   | 30.6           | 25.9 | 18.6 |
|                    |            |                              | 38                                      | 1.75       | 1.75           | 1.89   | 32.3           | 27.4 | 19.6 |
|                    |            |                              | 40                                      | 1.95       | 1.95           | 2.16   | 34.0           | 28.8 | 20.6 |
| 0.70               | V          | 31                           | 42                                      | 2.14       | 2.14           | 2.32   | 35.7           | 30.2 | 21.7 |
|                    |            |                              | 24                                      | 0.676      | 0.670          | 1.738  | 20.1           | 16.8 | 12.0 |
|                    |            |                              | 26                                      | 797        | 792            | 869    | 21.8           | 18.2 | 13.0 |
|                    |            |                              | 28                                      | 923        | 918            | 1.00   | 23.4           | 19.6 | 14.0 |
|                    |            |                              | 30                                      | 1.06       | 1.06           | 1.15   | 25.1           | 21.0 | 15.0 |
|                    |            |                              | 32                                      | 1.20       | 1.20           | 1.31   | 26.8           | 22.4 | 16.0 |
|                    |            |                              | 34                                      | 1.36       | 1.36           | 1.48   | 28.5           | 23.8 | 17.0 |
|                    |            |                              | 36                                      | 1.53       | 1.53           | 1.66   | 30.1           | 25.2 | 18.0 |
|                    |            |                              | 38                                      | 1.69       | 1.69           | 1.84   | 31.8           | 26.6 | 19.0 |
|                    |            |                              | 40                                      | 1.89       | 1.89           | 2.06   | 33.5           | 28.0 | 20.0 |
| 0.66               | IV         | 35                           | 42                                      | 2.07       | 2.07           | 2.27   | 35.2           | 29.4 | 21.0 |
|                    |            |                              | 44                                      | 2.27       | 2.27           | 2.48   | 36.8           | 30.8 | 22.0 |
|                    |            |                              | 26                                      | 0.767      | 0.762          | 0.840  | 21.4           | 17.7 | 12.6 |
|                    |            |                              | 28                                      | 888        | 883            | 972    | 23.1           | 19.0 | 13.5 |
|                    |            |                              | 30                                      | 1.02       | 1.02           | 1.11   | 24.7           | 20.4 | 14.5 |
|                    |            |                              | 32                                      | 1.16       | 1.16           | 1.63   | 26.4           | 21.8 | 15.5 |
|                    |            |                              | 34                                      | 1.31       | 1.31           | 1.43   | 28.0           | 23.1 | 16.4 |
|                    |            |                              | 36                                      | 1.47       | 1.47           | 1.83   | 29.7           | 24.5 | 17.4 |
|                    |            |                              | 38                                      | 1.63       | 1.63           | 1.78   | 31.3           | 25.8 | 18.4 |
|                    |            |                              | 40                                      | 1.82       | 1.85           | 1.99   | 33.0           | 27.2 | 19.3 |
| 0.68               | IV         | 33                           | 42                                      | 1.99       | 1.99           | 2.18   | 34.6           | 28.6 | 20.3 |
|                    |            |                              | 44                                      | 2.19       | 2.19           | 2.40   | 36.3           | 29.9 | 21.3 |
|                    |            |                              | 46                                      | 2.39       | 2.29           | 2.62   | 37.9           | 31.3 | 22.2 |
|                    |            |                              | 30                                      | 0.981      | 0.977          | 1.08   | 24.3           | 19.8 | 13.9 |
|                    |            |                              | 32                                      | 1.12       | 1.12           | 1.23   | 25.9           | 21.1 | 14.8 |
|                    |            |                              | 34                                      | 1.26       | 1.26           | 1.38   | 27.5           | 22.4 | 15.8 |
|                    |            |                              | 36                                      | 1.42       | 1.42           | 1.56   | 29.2           | 23.8 | 16.7 |

## Höhe 31 m.

## Höhe 31 m.

| Formquotient $q_1$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |      |      | Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1·3 m<br>über dem Boden | Inhalt des     |            |        | Durchmesser in |      |      |  |
|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|------|------|--------------------|------------|------------------------------|-----------------------------------------|----------------|------------|--------|----------------|------|------|--|
|                    |            |                              |                                         | Schafftes      | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |                    |            |                              |                                         | Schafftes      | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |  |
|                    |            |                              |                                         |                |            |        | der Höhe       |      |      |                    |            |                              |                                         |                |            |        | der Höhe       |      |      |  |
| cm                 |            |                              |                                         | m <sup>3</sup> |            |        | cm             |      |      | cm                 |            |                              |                                         | m <sup>3</sup> |            |        | cm             |      |      |  |
| 0·66               | IV         | 35                           | 38                                      | 1·57           | 1·57       | 1·73   | 30·8           | 25·1 | 17·6 | 0·58               | III        | 41                           | 50                                      | 2·50           | 2·30       | 2·61   | 37·9           | 29·0 | 19·9 |  |
|                    |            |                              | 40                                      | 1·75           | 1·75       | 1·93   | 32·4           | 26·4 | 18·6 |                    |            |                              | 52                                      | 2·48           | 2·48       | 2·83   | 39·4           | 30·2 | 20·7 |  |
|                    |            |                              | 42                                      | 1·92           | 1·92       | 2·11   | 34·0           | 27·7 | 19·5 |                    |            |                              | 54                                      | 2·68           | 2·68       | 3·05   | 40·9           | 31·3 | 21·5 |  |
|                    |            |                              | 44                                      | 2·11           | 2·11       | 2·32   | 35·6           | 29·0 | 20·4 |                    |            |                              | 56                                      | 2·88           | 2·88       | 3·28   | 42·4           | 32·5 | 22·3 |  |
|                    |            |                              | 46                                      | 2·31           | 2·31       | 2·54   | 37·3           | 30·4 | 21·3 |                    |            |                              | 58                                      | 3·09           | 3·09       | 3·52   | 44·0           | 33·6 | 23·1 |  |
|                    |            |                              | 48                                      | 2·51           | 2·51       | 2·76   | 38·9           | 31·7 | 22·3 |                    |            |                              | 60                                      | 3·31           | 3·31       | 3·77   | 45·5           | 34·8 | 23·9 |  |
|                    |            |                              | 50                                      | 2·72           | 2·72       | 3·00   | 40·5           | 33·0 | 23·2 |                    |            |                              | 62                                      | 3·54           | 3·54       | 4·02   | 47·0           | 36·0 | 24·7 |  |
|                    |            |                              | 52                                      | 2·94           | 2·94       | 3·24   | 42·1           | 34·3 | 24·1 |                    |            |                              | 64                                      | 3·77           | 3·77       | 4·29   | 48·5           | 37·1 | 25·5 |  |
| 0·64               | IV         | 36                           | 32                                      | 1·07           | 1·07       | 1·19   | 25·5           | 20·5 | 14·4 | 0·56               | II         | 43                           | 50                                      | 2·20           | 2·20       | 2·52   | 37·2           | 28·0 | 19·1 |  |
|                    |            |                              | 34                                      | 1·21           | 1·21       | 1·34   | 27·1           | 21·8 | 15·3 |                    |            |                              | 52                                      | 2·38           | 2·38       | 2·73   | 38·7           | 29·1 | 19·9 |  |
|                    |            |                              | 36                                      | 1·36           | 1·36       | 1·51   | 28·7           | 23·0 | 16·2 |                    |            |                              | 54                                      | 2·57           | 2·57       | 2·95   | 40·2           | 30·2 | 20·7 |  |
|                    |            |                              | 38                                      | 1·52           | 1·52       | 1·68   | 30·3           | 24·3 | 17·1 |                    |            |                              | 56                                      | 2·76           | 2·76       | 3·17   | 41·7           | 31·4 | 21·4 |  |
|                    |            |                              | 40                                      | 1·68           | 1·68       | 1·86   | 31·9           | 25·6 | 18·0 |                    |            |                              | 58                                      | 2·96           | 2·96       | 3·39   | 43·2           | 32·5 | 22·2 |  |
|                    |            |                              | 42                                      | 1·84           | 1·84       | 2·05   | 33·5           | 26·9 | 18·9 |                    |            |                              | 60                                      | 3·17           | 3·17       | 3·64   | 44·7           | 33·6 | 23·0 |  |
|                    |            |                              | 44                                      | 2·02           | 2·02       | 2·25   | 35·1           | 28·2 | 19·8 |                    |            |                              | 62                                      | 3·39           | 3·39       | 3·88   | 46·2           | 34·7 | 23·7 |  |
|                    |            |                              | 46                                      | 2·21           | 2·21       | 2·46   | 36·7           | 29·4 | 20·7 |                    |            |                              | 64                                      | 3·61           | 3·61       | 4·14   | 47·7           | 35·8 | 24·5 |  |
| 0·62               | III        | 38                           | 48                                      | 2·41           | 2·41       | 2·67   | 38·3           | 30·7 | 21·6 | 0·54               | II         | 45                           | 66                                      | 3·84           | 3·84       | 4·40   | 49·2           | 37·0 | 25·3 |  |
|                    |            |                              | 50                                      | 2·61           | 2·61       | 2·90   | 39·8           | 32·0 | 22·4 |                    |            |                              | 68                                      | 4·09           | 4·09       | 4·69   | 50·7           | 38·1 | 26·0 |  |
|                    |            |                              | 52                                      | 2·83           | 2·83       | 3·13   | 41·4           | 33·3 | 23·3 |                    |            |                              | 70                                      | 4·31           | 4·31       | 4·94   | 52·1           | 39·2 | 26·8 |  |
|                    |            |                              | 54                                      | 3·05           | 3·05       | 3·39   | 43·0           | 34·6 | 24·2 |                    |            |                              | 72                                      | 4·56           | 4·56       | 5·23   | 53·6           | 40·3 | 27·6 |  |
|                    |            |                              | 34                                      | 1·16           | 1·16       | 1·29   | 26·7           | 21·0 | 14·7 |                    |            |                              | 56                                      | 2·62           | 2·62       | 3·04   | 40·9           | 30·2 | 20·4 |  |
|                    |            |                              | 36                                      | 1·31           | 1·31       | 1·46   | 28·2           | 22·3 | 15·5 |                    |            |                              | 58                                      | 2·81           | 2·81       | 3·26   | 42·4           | 31·3 | 21·1 |  |
|                    |            |                              | 38                                      | 1·46           | 1·46       | 1·63   | 29·8           | 23·6 | 16·4 |                    |            |                              | 60                                      | 3·02           | 3·02       | 3·50   | 43·9           | 32·4 | 21·8 |  |
|                    |            |                              | 40                                      | 1·62           | 1·62       | 1·80   | 31·4           | 24·8 | 17·3 |                    |            |                              | 62                                      | 3·22           | 3·22       | 3·73   | 45·3           | 33·5 | 22·6 |  |
| 0·60               | III        | 40                           | 42                                      | 1·78           | 1·78       | 1·98   | 32·9           | 26·0 | 18·1 | 0·52               | II         | 47                           | 64                                      | 3·43           | 3·43       | 3·98   | 46·8           | 34·6 | 23·3 |  |
|                    |            |                              | 44                                      | 1·95           | 1·95       | 2·17   | 34·5           | 27·3 | 19·0 |                    |            |                              | 66                                      | 3·65           | 3·65       | 4·23   | 48·2           | 35·6 | 24·0 |  |
|                    |            |                              | 46                                      | 2·13           | 2·13       | 2·37   | 36·1           | 28·5 | 19·9 |                    |            |                              | 68                                      | 3·89           | 3·89       | 4·51   | 49·7           | 36·7 | 24·8 |  |
|                    |            |                              | 48                                      | 2·32           | 2·32       | 2·59   | 37·6           | 29·8 | 20·7 |                    |            |                              | 70                                      | 4·09           | 4·09       | 4·75   | 51·2           | 37·8 | 25·5 |  |
|                    |            |                              | 50                                      | 2·52           | 2·52       | 2·80   | 39·2           | 31·0 | 21·6 |                    |            |                              | 72                                      | 4·33           | 4·33       | 5·03   | 52·6           | 38·9 | 26·2 |  |
|                    |            |                              | 52                                      | 2·72           | 2·72       | 3·03   | 40·8           | 32·2 | 22·5 |                    |            |                              | 74                                      | 4·58           | 4·58       | 5·31   | 54·1           | 40·0 | 26·9 |  |
|                    |            |                              | 54                                      | 2·94           | 2·94       | 3·27   | 42·3           | 33·5 | 23·3 |                    |            |                              | 76                                      | 4·89           | 4·89       | 5·60   | 55·6           | 41·0 | 27·7 |  |
|                    |            |                              | 56                                      | 3·16           | 3·16       | 3·52   | 43·9           | 34·7 | 24·1 |                    |            |                              | 78                                      | 5·09           | 5·09       | 5·91   | 57·0           | 42·1 | 28·4 |  |
| 0·58               | III        | 41                           | 40                                      | 1·55           | 1·55       | 1·74   | 30·9           | 24·0 | 16·6 | 0·52               | II         | 47                           | 80                                      | 5·37           | 5·37       | 6·22   | 58·5           | 43·2 | 29·1 |  |
|                    |            |                              | 42                                      | 1·70           | 1·70       | 1·91   | 32·4           | 25·2 | 17·5 |                    |            |                              | 66                                      | 3·47           | 3·47       | 4·06   | 47·4           | 34·3 | 22·9 |  |
|                    |            |                              | 44                                      | 1·86           | 1·86       | 2·09   | 34·0           | 26·4 | 18·3 |                    |            |                              | 68                                      | 3·70           | 3·70       | 4·33   | 48·8           | 35·4 | 23·6 |  |
|                    |            |                              | 46                                      | 2·04           | 2·04       | 2·29   | 35·5           | 27·6 | 19·1 |                    |            |                              | 70                                      | 3·91           | 3·91       | 4·56   | 50·3           | 36·4 | 24·3 |  |
|                    |            |                              | 48                                      | 2·22           | 2·22       | 2·50   | 37·1           | 28·8 | 20·0 |                    |            |                              | 72                                      | 4·12           | 4·12       | 4·83   | 51·7           | 37·4 | 25·0 |  |
|                    |            |                              | 50                                      | 2·41           | 2·41       | 2·71   | 38·6           | 30·0 | 20·8 |                    |            |                              | 74                                      | 4·35           | 4·35       | 5·09   | 53·1           | 38·5 | 25·7 |  |
|                    |            |                              | 52                                      | 2·60           | 2·60       | 2·92   | 40·1           | 31·2 | 21·6 |                    |            |                              | 76                                      | 4·58           | 4·58       | 5·38   | 54·6           | 39·5 | 26·4 |  |
|                    |            |                              | 54                                      | 2·81           | 2·81       | 3·15   | 41·7           | 32·4 | 22·5 |                    |            |                              | 78                                      | 4·84           | 4·84       | 5·67   | 56·0           | 40·6 | 27·1 |  |
| 0·56               | III        | 43                           | 56                                      | 3·02           | 3·02       | 3·39   | 43·2           | 33·6 | 23·3 | 0·52               | II         | 47                           | 80                                      | 5·10           | 5·10       | 5·97   | 57·4           | 41·6 | 27·8 |  |
|                    |            |                              | 58                                      | 3·24           | 3·24       | 3·64   | 44·8           | 34·8 | 24·1 |                    |            |                              | 82                                      | 5·36           | 5·36       | 6·28   | 58·9           | 42·6 | 28·5 |  |
|                    |            |                              | 60                                      | 3·47           | 3·47       | 3·90   | 46·3           | 36·1 | 25·0 |                    |            |                              | 84                                      | 5·62           | 5·62       | 6·59   | 60·3           | 43·7 | 29·1 |  |
|                    |            |                              | 62                                      | 3·71           | 3·71       | 4·16   | 47·9           | 37·2 | 25·8 |                    |            |                              | 86                                      | 5·88           | 5·88       | 6·89   | 61·7           | 44·7 | 29·8 |  |
|                    |            |                              | 44                                      | 1·78           | 1·78       | 2·03   | 33·4           | 25·5 | 17·6 |                    |            |                              | 88                                      | 6·14           | 6·14       | 7·20   | 63·2           | 45·8 | 30·5 |  |
|                    |            |                              | 46                                      | 1·95           | 1·95       | 2·21   | 34·9           | 26·7 | 18·4 |                    |            |                              | 90                                      | 6·44           | 6·44       | 7·55   | 64·6           | 46·8 | 31·2 |  |
|                    |            |                              | 48                                      | 2·12           | 2·12       | 2·40   | 36·4           | 27·8 | 19·2 |                    |            |                              |                                         |                |            |        |                |      |      |  |

Höhe 32 m.

Höhe 32 m.

75

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |       |       |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|-------|-------|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | 1/4            | 1/2   | 3/4   |
|                    |            |                              |                                         |            |            |        | der Höhe       |       |       |
|                    |            |                              |                                         |            |            |        | cm             |       |       |
| m <sup>3</sup>     |            |                              |                                         | cm         |            |        |                |       |       |
| 0.74               | V          | 27                           | 22                                      | 0.641      | 0.634      | 0.689  | 19.0           | 16.3  | 11.7  |
|                    |            |                              | 24                                      | 750        | 744        | 806    | 20.7           | 17.8  | 12.8  |
|                    |            |                              | 26                                      | 879        | 874        | 945    | 22.4           | 19.2  | 13.9  |
|                    |            |                              | 28                                      | 1.02       | 1.01       | 1.09   | 24.2           | 20.7  | 14.9  |
|                    |            |                              | 30                                      | 1.17       | 1.17       | 1.26   | 25.9           | 22.2  | 15.9  |
|                    |            |                              | 32                                      | 1.33       | 1.33       | 1.43   | 27.6           | 23.7  | 17.0  |
|                    |            |                              | 34                                      | 1.50       | 1.50       | 1.62   | 29.3           | 25.2  | 18.1  |
|                    |            |                              | 36                                      | 1.69       | 1.69       | 1.81   | 31.1           | 26.6  | 19.2  |
|                    |            |                              | 38                                      | 1.87       | 1.87       | 2.01   | 32.8           | 28.1  | 20.3  |
|                    |            |                              | 40                                      | 2.08       | 2.08       | 2.24   | 34.5           | 29.6  | 21.3  |
|                    |            |                              | 42                                      | 2.28       | 2.28       | 2.46   | 36.2           | 31.1  | 22.4  |
|                    |            |                              | 0.72                                    | V          | 29         | 24     | 0.725          | 0.719 | 0.780 |
| 26                 | 850        | 845                          |                                         |            |            | 915    | 22.1           | 18.7  | 13.4  |
| 28                 | 985        | 980                          |                                         |            |            | 1.06   | 23.8           | 20.2  | 14.4  |
| 30                 | 1.13       | 1.13                         |                                         |            |            | 1.22   | 25.5           | 21.6  | 15.5  |
| 32                 | 1.28       | 1.28                         |                                         |            |            | 1.38   | 27.2           | 23.0  | 16.5  |
| 34                 | 1.45       | 1.45                         |                                         |            |            | 1.56   | 28.9           | 24.5  | 17.5  |
| 36                 | 1.63       | 1.63                         |                                         |            |            | 1.75   | 30.6           | 25.9  | 18.6  |
| 38                 | 1.81       | 1.81                         |                                         |            |            | 1.95   | 32.3           | 27.4  | 19.6  |
| 40                 | 2.01       | 2.01                         |                                         |            |            | 2.17   | 34.0           | 28.8  | 20.6  |
| 42                 | 2.21       | 2.21                         |                                         |            |            | 2.38   | 35.7           | 30.2  | 21.7  |
| 44                 | 2.43       | 2.43                         |                                         |            |            | 2.61   | 37.4           | 31.7  | 22.2  |
| 0.70               | V          | 31                           |                                         |            |            | 26     | 0.819          | 0.814 | 0.889 |
|                    |            |                              | 28                                      | 949        | 944        | 1.03   | 23.4           | 19.6  | 14.0  |
|                    |            |                              | 30                                      | 1.09       | 1.09       | 1.18   | 25.0           | 21.0  | 15.0  |
|                    |            |                              | 32                                      | 1.24       | 1.24       | 1.34   | 26.8           | 22.4  | 16.0  |
|                    |            |                              | 34                                      | 1.40       | 1.40       | 1.52   | 28.4           | 23.8  | 17.0  |
|                    |            |                              | 36                                      | 1.57       | 1.57       | 1.70   | 30.1           | 25.2  | 18.0  |
|                    |            |                              | 38                                      | 1.74       | 1.74       | 1.89   | 31.8           | 26.6  | 19.0  |
|                    |            |                              | 40                                      | 1.94       | 1.94       | 2.11   | 33.4           | 28.0  | 20.0  |
|                    |            |                              | 42                                      | 2.13       | 2.13       | 2.31   | 35.1           | 29.4  | 21.0  |
|                    |            |                              | 44                                      | 2.34       | 2.34       | 2.54   | 36.8           | 30.8  | 22.0  |
|                    |            |                              | 46                                      | 2.56       | 2.56       | 2.78   | 38.5           | 32.2  | 23.0  |
|                    |            |                              | 48                                      | 2.79       | 2.79       | 3.03   | 40.1           | 33.6  | 24.0  |
| 0.68               | IV         | 32                           | 28                                      | 0.916      | 0.911      | 1.00   | 23.1           | 19.0  | 13.5  |
|                    |            |                              | 30                                      | 1.05       | 1.05       | 1.15   | 24.7           | 20.4  | 14.5  |
|                    |            |                              | 32                                      | 1.20       | 1.20       | 1.30   | 26.3           | 21.8  | 15.5  |
|                    |            |                              | 34                                      | 1.35       | 1.35       | 1.48   | 28.0           | 23.1  | 16.4  |
|                    |            |                              | 36                                      | 1.52       | 1.52       | 1.66   | 29.6           | 24.5  | 17.4  |
|                    |            |                              | 38                                      | 1.68       | 1.68       | 1.84   | 31.3           | 25.8  | 18.4  |
|                    |            |                              | 40                                      | 1.87       | 1.87       | 2.05   | 32.9           | 27.2  | 19.3  |
|                    |            |                              | 42                                      | 2.06       | 2.06       | 2.24   | 34.6           | 28.6  | 20.3  |
|                    |            |                              | 44                                      | 2.26       | 2.26       | 2.47   | 36.2           | 29.9  | 21.3  |
|                    |            |                              | 46                                      | 2.47       | 2.47       | 2.70   | 37.9           | 31.3  | 22.2  |
|                    |            |                              | 48                                      | 2.69       | 2.69       | 2.94   | 39.5           | 32.6  | 23.2  |
|                    |            |                              | 50                                      | 2.91       | 2.91       | 3.18   | 41.1           | 34.0  | 24.1  |
| 0.66               | IV         | 35                           | 30                                      | 1.01       | 1.00       | 1.11   | 24.3           | 19.8  | 14.0  |
|                    |            |                              | 32                                      | 1.15       | 1.15       | 1.26   | 25.9           | 21.1  | 14.9  |
|                    |            |                              | 34                                      | 1.30       | 1.30       | 1.43   | 27.5           | 22.4  | 15.9  |
|                    |            |                              | 36                                      | 1.46       | 1.46       | 1.60   | 29.2           | 23.8  | 16.7  |
|                    |            |                              |                                         |            |            |        |                |       |       |
| 0.66               | IV         | 35                           | 38                                      | 1.62       | 1.62       | 1.78   | 30.8           | 25.1  | 17.8  |
|                    |            |                              | 40                                      | 1.80       | 1.80       | 1.98   | 32.4           | 26.4  | 18.6  |
|                    |            |                              | 42                                      | 1.98       | 1.98       | 2.17   | 34.0           | 27.7  | 19.5  |
|                    |            |                              | 44                                      | 2.17       | 2.17       | 2.39   | 35.6           | 29.0  | 20.5  |
|                    |            |                              | 46                                      | 2.37       | 2.37       | 2.61   | 37.3           | 30.4  | 21.4  |
|                    |            |                              | 48                                      | 2.59       | 2.59       | 2.84   | 38.0           | 31.7  | 22.3  |
|                    |            |                              | 50                                      | 2.80       | 2.80       | 3.08   | 40.5           | 33.0  | 23.2  |
|                    |            |                              | 52                                      | 3.03       | 3.03       | 3.33   | 42.1           | 34.3  | 24.2  |
|                    |            |                              | 32                                      | 1.10       | 1.10       | 1.22   | 25.5           | 20.5  | 14.4  |
|                    |            |                              | 34                                      | 1.25       | 1.25       | 1.38   | 27.1           | 21.8  | 15.3  |
|                    |            |                              | 36                                      | 1.40       | 1.40       | 1.55   | 28.7           | 23.0  | 16.2  |
|                    |            |                              | 38                                      | 1.56       | 1.56       | 1.72   | 30.2           | 24.3  | 17.1  |
| 40                 | 1.73       | 1.73                         | 1.91                                    | 31.8       | 25.6       | 18.0   |                |       |       |
| 42                 | 1.90       | 1.90                         | 2.10                                    | 33.4       | 26.9       | 18.9   |                |       |       |
| 44                 | 2.09       | 2.09                         | 2.31                                    | 35.0       | 28.2       | 19.8   |                |       |       |
| 46                 | 2.28       | 2.28                         | 2.52                                    | 36.6       | 29.4       | 20.7   |                |       |       |
| 48                 | 2.49       | 2.49                         | 2.75                                    | 38.2       | 30.7       | 21.6   |                |       |       |
| 50                 | 2.70       | 2.70                         | 2.98                                    | 39.8       | 32.0       | 22.4   |                |       |       |
| 52                 | 2.92       | 2.92                         | 3.22                                    | 41.4       | 33.3       | 23.3   |                |       |       |
| 54                 | 3.15       | 3.15                         | 3.48                                    | 43.0       | 34.6       | 24.2   |                |       |       |
| 34                 | 1.20       | 1.20                         | 1.33                                    | 26.6       | 21.0       | 14.7   |                |       |       |
| 36                 | 1.35       | 1.35                         | 1.50                                    | 28.2       | 22.3       | 15.6   |                |       |       |
| 38                 | 1.50       | 1.50                         | 1.66                                    | 29.8       | 23.6       | 16.5   |                |       |       |
| 40                 | 1.66       | 1.66                         | 1.85                                    | 31.3       | 24.8       | 17.3   |                |       |       |
| 42                 | 1.83       | 1.83                         | 2.03                                    | 32.9       | 26.0       | 18.2   |                |       |       |
| 44                 | 2.00       | 2.00                         | 2.23                                    | 34.5       | 27.3       | 19.1   |                |       |       |
| 46                 | 2.19       | 2.19                         | 2.44                                    | 36.0       | 28.5       | 19.9   |                |       |       |
| 48                 | 2.39       | 2.39                         | 2.66                                    | 37.6       | 29.8       | 20.8   |                |       |       |
| 50                 | 2.59       | 2.59                         | 2.88                                    | 39.1       | 31.0       | 21.6   |                |       |       |
| 52                 | 2.80       | 2.80                         | 3.11                                    | 40.7       | 32.2       | 22.5   |                |       |       |
| 54                 | 3.03       | 3.03                         | 3.36                                    | 42.3       | 33.5       | 23.4   |                |       |       |
| 56                 | 3.25       | 3.25                         | 3.61                                    | 43.8       | 34.7       | 24.2   |                |       |       |
| 58                 | 3.49       | 3.49                         | 3.88                                    | 45.4       | 36.0       | 25.1   |                |       |       |
| 38                 | 1.43       | 1.43                         | 1.61                                    | 29.3       | 22.8       | 15.8   |                |       |       |
| 40                 | 1.60       | 1.60                         | 1.79                                    | 30.8       | 24.0       | 16.6   |                |       |       |
| 42                 | 1.75       | 1.75                         | 1.96                                    | 32.3       | 25.2       | 17.5   |                |       |       |
| 44                 | 1.92       | 1.92                         | 2.16                                    | 33.9       | 26.4       | 18.3   |                |       |       |
| 46                 | 2.10       | 2.10                         | 2.36                                    | 35.4       | 27.6       | 19.1   |                |       |       |
| 48                 | 2.29       | 2.29                         | 2.57                                    | 37.0       | 28.8       | 20.0   |                |       |       |
| 50                 | 2.48       | 2.48                         | 2.78                                    | 38.5       | 30.0       | 20.8   |                |       |       |
| 52                 | 2.68       | 2.68                         | 3.01                                    | 40.0       | 31.2       | 21.6   |                |       |       |
| 54                 | 2.90       | 2.90                         | 3.25                                    | 41.6       | 32.4       | 22.5   |                |       |       |
| 56                 | 3.12       | 3.12                         | 3.40                                    | 43.1       | 33.6       | 23.3   |                |       |       |
| 58                 | 3.35       | 3.35                         | 3.75                                    | 44.7       | 34.8       | 24.1   |                |       |       |
| 60                 | 3.58       | 3.58                         | 4.02                                    | 46.2       | 36.0       | 25.0   |                |       |       |
| 62                 | 3.81       | 3.81                         | 4.29                                    | 47.7       | 37.2       | 25.8   |                |       |       |
| 42                 | 1.67       | 1.67                         | 1.89                                    | 31.8       | 24.4       | 16.0   |                |       |       |
| 44                 | 1.83       | 1.83                         | 2.08                                    | 33.3       | 25.5       | 17.6   |                |       |       |
| 46                 | 2.00       | 2.00                         | 2.27                                    | 34.8       | 26.7       | 18.4   |                |       |       |
| 48                 | 2.18       | 2.18                         | 2.48                                    | 36.3       | 27.8       | 19.2   |                |       |       |

## Höhe 32 m.

## Höhe 33 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      |          |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|----------|--|--|
|                    |            |                              |                                         | Schafte    | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |          |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      | der Höhe |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      | cm       |  |  |
| 0.58               | III        | 41                           | 50                                      | 2.36       | 2.36       | 2.68   | 37.9           | 29.0 | 20.0 |          |  |  |
|                    |            |                              | 52                                      | 2.56       | 2.56       | 2.90   | 39.4           | 30.2 | 20.8 |          |  |  |
|                    |            |                              | 54                                      | 2.76       | 2.76       | 3.14   | 40.9           | 31.3 | 21.6 |          |  |  |
|                    |            |                              | 56                                      | 2.97       | 2.97       | 3.37   | 42.4           | 32.5 | 22.4 |          |  |  |
|                    |            |                              | 58                                      | 3.18       | 3.18       | 3.62   | 43.9           | 33.6 | 23.2 |          |  |  |
|                    |            |                              | 60                                      | 3.41       | 3.41       | 3.88   | 45.4           | 34.8 | 24.6 |          |  |  |
|                    |            |                              | 62                                      | 3.64       | 3.64       | 4.13   | 46.9           | 36.0 | 24.8 |          |  |  |
|                    |            |                              | 64                                      | 3.88       | 3.88       | 4.41   | 48.4           | 37.1 | 25.6 |          |  |  |
| 0.56               | II         | 43                           | 50                                      | 2.26       | 2.26       | 2.59   | 37.2           | 28.0 | 19.1 |          |  |  |
|                    |            |                              | 52                                      | 2.45       | 2.45       | 2.80   | 38.7           | 29.1 | 19.9 |          |  |  |
|                    |            |                              | 54                                      | 2.65       | 2.65       | 3.03   | 40.2           | 30.2 | 20.7 |          |  |  |
|                    |            |                              | 56                                      | 2.84       | 2.84       | 3.25   | 41.7           | 31.4 | 21.4 |          |  |  |
|                    |            |                              | 58                                      | 3.05       | 3.05       | 3.49   | 43.2           | 32.5 | 22.2 |          |  |  |
|                    |            |                              | 60                                      | 3.27       | 3.27       | 3.74   | 44.6           | 33.6 | 23.0 |          |  |  |
|                    |            |                              | 62                                      | 3.49       | 3.49       | 3.99   | 46.1           | 34.7 | 23.7 |          |  |  |
|                    |            |                              | 64                                      | 3.71       | 3.71       | 4.25   | 47.6           | 35.8 | 24.5 |          |  |  |
| 0.54               | II         | 45                           | 58                                      | 2.91       | 2.91       | 3.36   | 42.3           | 31.3 | 21.1 |          |  |  |
|                    |            |                              | 60                                      | 3.12       | 3.12       | 3.60   | 43.8           | 32.4 | 21.9 |          |  |  |
|                    |            |                              | 62                                      | 3.32       | 3.32       | 3.84   | 45.3           | 33.5 | 22.6 |          |  |  |
|                    |            |                              | 64                                      | 3.54       | 3.54       | 4.10   | 46.7           | 34.6 | 23.4 |          |  |  |
|                    |            |                              | 66                                      | 3.76       | 3.76       | 4.36   | 48.2           | 35.6 | 24.1 |          |  |  |
|                    |            |                              | 68                                      | 3.99       | 3.99       | 4.62   | 49.6           | 36.7 | 24.8 |          |  |  |
|                    |            |                              | 70                                      | 4.23       | 4.23       | 4.90   | 51.1           | 37.8 | 25.6 |          |  |  |
|                    |            |                              | 72                                      | 4.47       | 4.47       | 5.17   | 52.6           | 38.9 | 26.3 |          |  |  |
| 0.52               | II         | 46                           | 74                                      | 4.75       | 4.75       | 5.49   | 54.0           | 40.0 | 27.0 |          |  |  |
|                    |            |                              | 76                                      | 4.99       | 4.99       | 5.77   | 55.5           | 41.0 | 27.7 |          |  |  |
|                    |            |                              | 78                                      | 5.26       | 5.26       | 6.09   | 56.9           | 42.1 | 28.5 |          |  |  |
|                    |            |                              | 80                                      | 5.54       | 5.54       | 6.41   | 58.4           | 43.2 | 29.2 |          |  |  |
|                    |            |                              | 82                                      | 5.81       | 5.81       | 6.73   | 59.9           | 44.3 | 29.9 |          |  |  |
|                    |            |                              | 84                                      | 6.09       | 6.09       | 7.04   | 61.3           | 45.4 | 30.7 |          |  |  |
|                    |            |                              | 68                                      | 3.78       | 3.78       | 4.44   | 48.8           | 35.4 | 23.7 |          |  |  |
|                    |            |                              | 70                                      | 4.01       | 4.01       | 4.69   | 50.3           | 36.4 | 24.4 |          |  |  |
| 0.50               | II         | 47                           | 72                                      | 4.24       | 4.24       | 4.95   | 51.7           | 37.4 | 25.1 |          |  |  |
|                    |            |                              | 74                                      | 4.50       | 4.50       | 5.26   | 53.1           | 38.5 | 25.8 |          |  |  |
|                    |            |                              | 76                                      | 4.73       | 4.73       | 5.52   | 54.6           | 39.5 | 26.4 |          |  |  |
|                    |            |                              | 78                                      | 4.99       | 4.99       | 5.83   | 56.0           | 40.6 | 27.1 |          |  |  |
|                    |            |                              | 80                                      | 5.25       | 5.25       | 6.13   | 57.4           | 41.6 | 27.8 |          |  |  |
|                    |            |                              | 82                                      | 5.51       | 5.51       | 6.44   | 58.9           | 42.6 | 28.5 |          |  |  |
|                    |            |                              | 84                                      | 5.77       | 5.77       | 6.74   | 60.3           | 43.7 | 29.2 |          |  |  |
|                    |            |                              | 86                                      | 6.06       | 6.06       | 7.09   | 61.7           | 44.7 | 29.9 |          |  |  |
| 0.48               | II         | 48                           | 88                                      | 6.36       | 6.36       | 7.43   | 63.1           | 45.8 | 30.6 |          |  |  |
|                    |            |                              | 90                                      | 6.65       | 6.65       | 7.77   | 64.6           | 46.8 | 31.3 |          |  |  |
|                    |            |                              | 92                                      | 6.94       | 6.94       | 8.12   | 66.1           | 47.8 | 32.0 |          |  |  |
|                    |            |                              | 94                                      | 7.24       | 7.24       | 8.46   | 67.5           | 48.9 | 32.7 |          |  |  |

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1/3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |      |      |          |  |  |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|------|------|----------|--|--|
|                    |            |                              |                                         | Schafte    | Derbholzes | Baumes | 1/4            | 1/2  | 3/4  |          |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      | der Höhe |  |  |
|                    |            |                              |                                         |            |            |        |                |      |      | cm       |  |  |
| 0.74               | V          | 27                           | 24                                      | 0.770      | 0.764      | 0.824  | 20.7           | 17.8 | 12.8 |          |  |  |
|                    |            |                              | 26                                      | 905        | 900        | 968    | 22.4           | 19.2 | 13.9 |          |  |  |
|                    |            |                              | 28                                      | 1.05       | 1.04       | 1.12   | 24.2           | 20.7 | 15.0 |          |  |  |
|                    |            |                              | 30                                      | 1.20       | 1.20       | 1.29   | 25.9           | 22.2 | 16.0 |          |  |  |
|                    |            |                              | 32                                      | 1.37       | 1.37       | 1.46   | 27.6           | 23.7 | 17.1 |          |  |  |
|                    |            |                              | 34                                      | 1.55       | 1.55       | 1.66   | 29.3           | 25.2 | 18.1 |          |  |  |
|                    |            |                              | 36                                      | 1.74       | 1.74       | 1.86   | 31.1           | 26.6 | 19.2 |          |  |  |
|                    |            |                              | 38                                      | 1.92       | 1.92       | 2.06   | 32.8           | 28.1 | 20.2 |          |  |  |
| 0.72               | V          | 29                           | 40                                      | 2.15       | 2.15       | 2.28   | 34.5           | 29.6 | 21.3 |          |  |  |
|                    |            |                              | 42                                      | 2.35       | 2.35       | 2.51   | 36.2           | 31.1 | 22.4 |          |  |  |
|                    |            |                              | 44                                      | 2.59       | 2.59       | 2.77   | 38.0           | 32.6 | 23.5 |          |  |  |
|                    |            |                              | 26                                      | 0.973      | 0.968      | 0.938  | 22.1           | 18.7 | 13.4 |          |  |  |
|                    |            |                              | 28                                      | 1.01       | 1.00       | 1.09   | 23.8           | 20.2 | 14.5 |          |  |  |
|                    |            |                              | 30                                      | 1.16       | 1.16       | 1.25   | 25.5           | 21.6 | 15.5 |          |  |  |
|                    |            |                              | 32                                      | 1.32       | 1.32       | 1.42   | 27.2           | 23.0 | 16.5 |          |  |  |
|                    |            |                              | 34                                      | 1.50       | 1.50       | 1.61   | 28.9           | 24.5 | 17.6 |          |  |  |
| 0.70               | V          | 31                           | 36                                      | 1.68       | 1.68       | 1.81   | 30.6           | 25.9 | 18.6 |          |  |  |
|                    |            |                              | 38                                      | 1.85       | 1.85       | 1.99   | 31.4           | 27.4 | 19.6 |          |  |  |
|                    |            |                              | 40                                      | 2.07       | 2.07       | 2.22   | 33.9           | 28.8 | 20.7 |          |  |  |
|                    |            |                              | 42                                      | 2.26       | 2.26       | 2.43   | 35.7           | 30.2 | 21.7 |          |  |  |
|                    |            |                              | 44                                      | 2.50       | 2.50       | 2.68   | 37.4           | 31.7 | 22.7 |          |  |  |
|                    |            |                              | 46                                      | 2.73       | 2.73       | 2.94   | 39.1           | 33.1 | 23.8 |          |  |  |
|                    |            |                              | 26                                      | 0.843      | 0.838      | 0.911  | 21.7           | 18.2 | 13.0 |          |  |  |
|                    |            |                              | 28                                      | 978        | 973        | 1.06   | 23.4           | 19.6 | 14.0 |          |  |  |
| 0.68               | IV         | 32                           | 30                                      | 1.12       | 1.12       | 1.21   | 25.1           | 21.0 | 15.0 |          |  |  |
|                    |            |                              | 32                                      | 1.28       | 1.28       | 1.38   | 26.8           | 22.4 | 16.0 |          |  |  |
|                    |            |                              | 34                                      | 1.45       | 1.45       | 1.56   | 28.4           | 23.8 | 17.0 |          |  |  |
|                    |            |                              | 36                                      | 1.62       | 1.62       | 1.76   | 30.1           | 25.2 | 18.0 |          |  |  |
|                    |            |                              | 38                                      | 1.79       | 1.79       | 1.93   | 31.8           | 26.6 | 19.0 |          |  |  |
|                    |            |                              | 40                                      | 2.00       | 2.00       | 2.16   | 33.4           | 28.0 | 20.0 |          |  |  |
|                    |            |                              | 42                                      | 2.19       | 2.19       | 2.36   | 35.1           | 29.4 | 21.0 |          |  |  |
|                    |            |                              | 44                                      | 2.41       | 2.41       | 2.61   | 36.8           | 30.8 | 22.0 |          |  |  |
| 0.66               | IV         | 34                           | 46                                      | 2.64       | 2.64       | 2.86   | 38.5           | 32.2 | 23.0 |          |  |  |
|                    |            |                              | 48                                      | 2.88       | 2.88       | 3.11   | 40.1           | 33.6 | 24.0 |          |  |  |
|                    |            |                              | 28                                      | 0.941      | 0.936      | 1.02   | 23.0           | 19.0 | 13.6 |          |  |  |
|                    |            |                              | 30                                      | 1.08       | 1.08       | 1.18   | 24.7           | 20.4 | 14.5 |          |  |  |
|                    |            |                              | 32                                      | 1.23       | 1.23       | 1.34   | 26.3           | 21.8 | 15.5 |          |  |  |
|                    |            |                              | 34                                      | 1.39       | 1.39       | 1.51   | 27.9           | 23.1 | 16.5 |          |  |  |
|                    |            |                              | 36                                      | 1.56       | 1.56       | 1.70   | 29.6           | 24.5 | 17.4 |          |  |  |
|                    |            |                              | 38                                      | 1.72       | 1.72       | 1.88   | 31.2           | 25.8 | 18.4 |          |  |  |
| 0.64               | IV         | 36                           | 40                                      | 1.93       | 1.93       | 2.09   | 32.9           | 27.2 | 19.4 |          |  |  |
|                    |            |                              | 42                                      | 2.11       | 2.11       | 2.29   | 34.5           | 28.6 | 20.3 |          |  |  |
|                    |            |                              | 44                                      | 2.32       | 2.32       | 2.53   | 36.2           | 29.9 | 21.3 |          |  |  |
|                    |            |                              | 46                                      | 2.54       | 2.54       | 2.77   | 37.8           | 31.3 | 22.3 |          |  |  |
|                    |            |                              | 48                                      | 2.77       | 2.77       | 3.01   | 39.5           | 33.6 | 23.2 |          |  |  |
|                    |            |                              | 50                                      | 3.00       | 3.00       | 3.27   | 41.1           | 34.0 | 24.2 |          |  |  |
|                    |            |                              | 32                                      | 1.18       | 1.18       | 1.29   | 25.9           | 21.1 | 14.9 |          |  |  |
|                    |            |                              | 34                                      | 1.34       | 1.34       | 1.47   | 27.5           | 22.4 | 15.8 |          |  |  |
| 0.62               | IV         | 38                           | 36                                      | 1.51       | 1.51       | 1.65   | 29.1           | 23.8 | 16.8 |          |  |  |
|                    |            |                              | 38                                      | 1.66       | 1.66       | 1.81   | 30.7           | 25.1 | 17.7 |          |  |  |

Höhe 33 m.

Höhe 33 m.

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| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |      |          |      |      |      |      |      |      |      |      |      |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|----------------|------|----------|------|------|------|------|------|------|------|------|------|
|                    |            |                              |                                         | Schafftes  | Derbolztes | Baumes | 1/4            | 1/2            | 3/4  |          |      |      |      |      |      |      |      |      |      |
|                    |            |                              |                                         |            |            |        |                |                |      | der Höhe |      |      |      |      |      |      |      |      |      |
|                    |            |                              |                                         |            |            |        | cm             | m <sup>3</sup> | cm   |          |      |      |      |      |      |      |      |      |      |
| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |                |      |          |      |      |      |      |      |      |      |      |      |
|                    |            |                              |                                         | Schafftes  | Derbolztes | Baumes | 1/4            | 1/2            | 3/4  |          |      |      |      |      |      |      |      |      |      |
|                    |            |                              |                                         |            |            |        |                |                |      | der Höhe |      |      |      |      |      |      |      |      |      |
|                    |            |                              |                                         |            |            |        | cm             | m <sup>3</sup> | cm   |          |      |      |      |      |      |      |      |      |      |
| 0.66               | IV         | 34                           | 40                                      | 1.86       | 1.86       | 2.03   | 32.4           | 26.4           | 18.6 | 0.58     | III  | 41   | 54   | 2.88 | 2.88 | 3.22 | 40.8 | 31.3 | 21.6 |
|                    |            |                              | 42                                      | 2.03       | 2.03       | 2.22   | 34.0           | 27.7           | 19.6 |          |      |      | 56   | 3.05 | 3.05 | 3.46 | 42.3 | 32.5 | 22.9 |
|                    |            |                              | 44                                      | 2.24       | 2.24       | 2.45   | 35.6           | 29.0           | 20.5 |          |      |      | 58   | 3.27 | 3.27 | 3.71 | 43.8 | 33.6 | 23.2 |
|                    |            |                              | 46                                      | 2.45       | 2.45       | 2.68   | 37.2           | 30.4           | 21.4 |          |      |      | 60   | 3.51 | 3.51 | 3.98 | 45.4 | 34.8 | 24.0 |
|                    |            |                              | 48                                      | 2.67       | 2.67       | 2.92   | 38.8           | 31.7           | 22.4 |          |      |      | 62   | 3.75 | 3.75 | 4.24 | 46.9 | 36.0 | 24.8 |
|                    |            |                              | 50                                      | 2.89       | 2.89       | 3.16   | 40.4           | 33.0           | 23.3 |          |      |      | 64   | 3.99 | 3.99 | 4.52 | 48.4 | 37.1 | 25.6 |
|                    |            |                              | 52                                      | 3.13       | 3.13       | 3.42   | 42.1           | 34.3           | 24.2 |          |      |      | 66   | 4.25 | 4.25 | 4.81 | 49.9 | 38.3 | 26.4 |
|                    |            |                              | 54                                      | 3.38       | 3.38       | 3.70   | 43.7           | 35.6           | 25.2 |          |      |      | 68   | 4.51 | 4.51 | 5.11 | 51.4 | 39.4 | 27.2 |
| 0.64               | IV         | 36                           | 34                                      | 1.29       | 1.29       | 1.42   | 27.1           | 21.8           | 15.3 | 70       | 4.78 | 4.78 | 5.41 | 52.9 | 40.6 | 28.0 |      |      |      |
|                    |            |                              | 36                                      | 1.44       | 1.44       | 1.59   | 28.7           | 23.0           | 16.2 | 52       | 2.52 | 2.52 | 2.87 | 38.6 | 29.1 | 20.0 |      |      |      |
|                    |            |                              | 38                                      | 1.59       | 1.59       | 1.75   | 30.2           | 24.3           | 17.1 | 54       | 2.72 | 2.72 | 3.10 | 40.1 | 30.2 | 20.7 |      |      |      |
|                    |            |                              | 40                                      | 1.78       | 1.78       | 1.97   | 31.8           | 25.6           | 18.0 | 56       | 2.92 | 2.92 | 3.33 | 41.6 | 31.4 | 21.5 |      |      |      |
|                    |            |                              | 42                                      | 1.95       | 1.95       | 2.15   | 33.4           | 26.9           | 18.9 | 58       | 3.14 | 3.14 | 3.58 | 43.1 | 32.5 | 22.3 |      |      |      |
|                    |            |                              | 44                                      | 2.15       | 2.15       | 2.37   | 35.0           | 28.2           | 19.8 | 60       | 3.36 | 3.36 | 3.83 | 44.6 | 33.6 | 23.0 |      |      |      |
|                    |            |                              | 46                                      | 2.35       | 2.35       | 2.59   | 36.6           | 29.4           | 20.7 | 62       | 3.59 | 3.59 | 4.09 | 46.1 | 34.7 | 23.8 |      |      |      |
|                    |            |                              | 48                                      | 2.56       | 2.56       | 2.82   | 38.2           | 30.7           | 21.6 | 64       | 3.85 | 3.85 | 4.35 | 47.0 | 35.8 | 24.5 |      |      |      |
|                    |            |                              | 50                                      | 2.77       | 2.77       | 3.06   | 39.8           | 32.0           | 22.5 | 66       | 4.07 | 4.07 | 4.63 | 49.0 | 37.0 | 25.3 |      |      |      |
|                    |            |                              | 52                                      | 3.00       | 3.00       | 3.31   | 41.4           | 33.3           | 23.4 | 68       | 4.32 | 4.32 | 4.92 | 50.5 | 38.1 | 26.1 |      |      |      |
|                    |            |                              | 54                                      | 3.24       | 3.24       | 3.57   | 43.0           | 34.6           | 24.3 | 70       | 4.57 | 4.57 | 5.21 | 52.0 | 39.2 | 26.9 |      |      |      |
|                    |            |                              | 56                                      | 3.48       | 3.48       | 3.84   | 44.6           | 35.8           | 25.2 | 72       | 4.82 | 4.82 | 5.49 | 53.5 | 40.3 | 27.6 |      |      |      |
| 0.62               | III        | 38                           | 36                                      | 1.40       | 1.40       | 1.54   | 28.2           | 22.3           | 15.6 | 74       | 5.11 | 5.11 | 5.82 | 55.0 | 41.4 | 28.4 |      |      |      |
|                    |            |                              | 38                                      | 1.53       | 1.53       | 1.69   | 29.7           | 23.6           | 16.5 | 76       | 5.40 | 5.40 | 6.15 | 56.5 | 42.6 | 29.2 |      |      |      |
|                    |            |                              | 40                                      | 1.72       | 1.72       | 1.90   | 31.3           | 24.8           | 17.3 | 58       | 2.99 | 2.99 | 3.44 | 42.3 | 31.3 | 21.2 |      |      |      |
|                    |            |                              | 42                                      | 1.87       | 1.87       | 2.07   | 32.8           | 26.0           | 18.2 | 60       | 3.20 | 3.20 | 3.69 | 43.7 | 32.4 | 22.0 |      |      |      |
|                    |            |                              | 44                                      | 2.07       | 2.07       | 2.29   | 34.4           | 27.3           | 19.1 | 62       | 3.42 | 3.42 | 3.94 | 45.2 | 33.5 | 22.7 |      |      |      |
|                    |            |                              | 46                                      | 2.26       | 2.26       | 2.50   | 36.5           | 28.5           | 19.9 | 64       | 3.64 | 3.64 | 4.19 | 46.7 | 34.6 | 23.4 |      |      |      |
|                    |            |                              | 48                                      | 2.46       | 2.46       | 2.73   | 37.5           | 29.8           | 20.8 | 66       | 3.88 | 3.88 | 4.46 | 48.1 | 35.6 | 24.2 |      |      |      |
|                    |            |                              | 50                                      | 2.67       | 2.67       | 2.96   | 39.1           | 31.5           | 21.6 | 68       | 4.12 | 4.12 | 4.74 | 49.6 | 36.7 | 24.9 |      |      |      |
|                    |            |                              | 52                                      | 2.89       | 2.89       | 3.20   | 40.7           | 32.2           | 22.5 | 70       | 4.36 | 4.36 | 5.02 | 51.0 | 37.8 | 25.6 |      |      |      |
|                    |            |                              | 54                                      | 3.12       | 3.12       | 3.45   | 42.2           | 33.5           | 23.4 | 72       | 4.60 | 4.60 | 5.29 | 52.5 | 38.9 | 26.4 |      |      |      |
|                    |            |                              | 56                                      | 3.35       | 3.35       | 3.71   | 43.8           | 34.7           | 24.2 | 74       | 4.87 | 4.87 | 5.61 | 54.0 | 40.0 | 27.1 |      |      |      |
|                    |            |                              | 58                                      | 3.60       | 3.60       | 3.98   | 45.4           | 36.0           | 25.1 | 76       | 5.14 | 5.14 | 5.92 | 55.4 | 41.0 | 27.8 |      |      |      |
| 0.60               | III        | 39                           | 60                                      | 3.86       | 3.86       | 4.27   | 46.9           | 37.2           | 26.0 | 78       | 5.42 | 5.42 | 6.24 | 56.9 | 42.1 | 28.5 |      |      |      |
|                    |            |                              | 40                                      | 1.65       | 1.65       | 1.83   | 30.8           | 24.0           | 16.7 | 80       | 5.69 | 5.69 | 6.56 | 58.3 | 43.2 | 29.3 |      |      |      |
|                    |            |                              | 42                                      | 1.79       | 1.79       | 2.00   | 32.3           | 25.2           | 17.5 | 82       | 5.97 | 5.97 | 6.87 | 59.8 | 44.3 | 30.0 |      |      |      |
|                    |            |                              | 44                                      | 1.98       | 1.98       | 2.21   | 33.8           | 26.4           | 18.3 | 84       | 6.28 | 6.28 | 7.23 | 61.2 | 45.4 | 30.7 |      |      |      |
|                    |            |                              | 46                                      | 2.16       | 2.16       | 2.42   | 35.4           | 27.9           | 19.2 | 68       | 3.91 | 3.91 | 4.55 | 48.8 | 35.4 | 23.7 |      |      |      |
|                    |            |                              | 48                                      | 2.36       | 2.36       | 2.63   | 36.9           | 28.8           | 20.0 | 70       | 4.14 | 4.14 | 4.81 | 50.2 | 36.4 | 24.4 |      |      |      |
|                    |            |                              | 50                                      | 2.56       | 2.56       | 2.85   | 38.4           | 30.0           | 20.8 | 72       | 4.37 | 4.37 | 5.08 | 51.6 | 37.4 | 25.1 |      |      |      |
|                    |            |                              | 52                                      | 2.76       | 2.76       | 3.09   | 40.0           | 31.2           | 21.7 | 74       | 4.63 | 4.63 | 5.38 | 53.1 | 38.5 | 25.8 |      |      |      |
|                    |            |                              | 54                                      | 2.99       | 2.99       | 3.33   | 41.5           | 32.4           | 22.5 | 76       | 4.89 | 4.89 | 5.68 | 54.5 | 39.5 | 26.5 |      |      |      |
|                    |            |                              | 56                                      | 3.21       | 3.21       | 3.58   | 43.1           | 33.6           | 23.4 | 78       | 5.15 | 5.15 | 5.99 | 55.9 | 40.6 | 27.2 |      |      |      |
|                    |            |                              | 58                                      | 3.44       | 3.44       | 3.84   | 44.6           | 34.8           | 24.2 | 80       | 5.41 | 5.41 | 6.29 | 57.4 | 41.6 | 27.9 |      |      |      |
|                    |            |                              | 60                                      | 3.69       | 3.69       | 4.12   | 46.1           | 36.9           | 25.0 | 82       | 5.67 | 5.67 | 6.59 | 58.8 | 42.6 | 28.6 |      |      |      |
| 0.58               | III        | 41                           | 62                                      | 3.94       | 3.94       | 4.40   | 47.7           | 37.2           | 25.9 | 84       | 5.97 | 5.97 | 6.94 | 60.2 | 43.7 | 29.3 |      |      |      |
|                    |            |                              | 64                                      | 4.19       | 4.19       | 4.68   | 49.2           | 38.4           | 26.7 | 86       | 6.26 | 6.26 | 7.28 | 61.7 | 44.7 | 30.0 |      |      |      |
|                    |            |                              | 46                                      | 2.06       | 2.06       | 2.33   | 34.8           | 26.7           | 18.4 | 89       | 6.55 | 6.55 | 7.62 | 63.1 | 45.8 | 30.7 |      |      |      |
|                    |            |                              | 48                                      | 2.24       | 2.24       | 2.54   | 36.3           | 27.8           | 19.2 | 90       | 6.85 | 6.85 | 7.96 | 64.5 | 46.8 | 31.4 |      |      |      |
|                    |            |                              | 50                                      | 2.43       | 2.43       | 2.76   | 37.8           | 29.0           | 20.0 | 92       | 7.14 | 7.14 | 8.30 | 66.0 | 47.8 | 32.1 |      |      |      |
|                    |            |                              | 52                                      | 2.63       | 2.63       | 2.98   | 39.3           | 30.2           | 20.8 | 94       | 7.47 | 7.47 | 8.68 | 67.4 | 48.9 | 32.8 |      |      |      |

Höhe 34 m.

Höhe 34 m.

| Formquotient $q_1$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|
|                    |            |                              |                                         | Schafte    | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |
|                    |            |                              |                                         |            |            |        |                |               |               |          |
| 0.74               | V          | 27                           | 26                                      | 0.934      | 0.929      | 0.997  | 22.4           | 19.2          | 13.9          |          |
|                    |            |                              | 28                                      | 1.03       | 1.07       | 1.15   | 24.1           | 20.7          | 15.0          |          |
|                    |            |                              | 30                                      | 1.24       | 1.24       | 1.32   | 25.9           | 22.2          | 16.0          |          |
|                    |            |                              | 32                                      | 1.41       | 1.41       | 1.50   | 27.6           | 23.7          | 17.1          |          |
|                    |            |                              | 34                                      | 1.59       | 1.59       | 1.70   | 29.3           | 25.2          | 18.2          |          |
|                    |            |                              | 36                                      | 1.79       | 1.79       | 1.91   | 31.0           | 26.6          | 19.2          |          |
|                    |            |                              | 38                                      | 1.98       | 1.98       | 2.11   | 32.8           | 28.1          | 20.3          |          |
|                    |            |                              | 40                                      | 2.21       | 2.21       | 2.36   | 34.5           | 29.6          | 21.4          |          |
|                    |            |                              | 42                                      | 2.43       | 2.43       | 2.59   | 36.2           | 31.1          | 22.4          |          |
|                    |            |                              | 44                                      | 2.67       | 2.67       | 2.85   | 37.9           | 32.6          | 23.5          |          |
| 46                 | 2.91       | 2.91                         | 3.11                                    | 39.7       | 34.0       | 24.6   |                |               |               |          |
| 0.72               | V          | 29                           | 28                                      | 1.04       | 1.03       | 1.12   | 23.8           | 20.2          | 14.5          |          |
|                    |            |                              | 30                                      | 1.20       | 1.20       | 1.28   | 25.5           | 21.6          | 15.5          |          |
|                    |            |                              | 32                                      | 1.36       | 1.36       | 1.46   | 27.2           | 23.0          | 16.5          |          |
|                    |            |                              | 34                                      | 1.54       | 1.54       | 1.65   | 28.9           | 24.5          | 17.6          |          |
|                    |            |                              | 36                                      | 1.73       | 1.73       | 1.86   | 30.6           | 25.9          | 18.6          |          |
|                    |            |                              | 38                                      | 1.92       | 1.92       | 2.05   | 32.3           | 27.4          | 19.6          |          |
|                    |            |                              | 40                                      | 2.14       | 2.14       | 2.29   | 34.0           | 28.8          | 20.7          |          |
|                    |            |                              | 42                                      | 2.35       | 2.35       | 2.51   | 35.7           | 30.2          | 21.7          |          |
|                    |            |                              | 44                                      | 2.58       | 2.58       | 2.77   | 37.4           | 31.7          | 22.7          |          |
|                    |            |                              | 46                                      | 2.81       | 2.81       | 3.01   | 39.1           | 33.1          | 23.8          |          |
| 48                 | 3.07       | 3.07                         | 3.29                                    | 40.8       | 34.6       | 24.8   |                |               |               |          |
| 0.70               | V          | 31                           | 28                                      | 1.00       | 0.995      | 0.939  | 23.4           | 19.6          | 14.0          |          |
|                    |            |                              | 30                                      | 1.15       | 1.15       | 1.25   | 25.0           | 21.0          | 15.0          |          |
|                    |            |                              | 32                                      | 1.31       | 1.31       | 1.42   | 26.7           | 22.4          | 16.0          |          |
|                    |            |                              | 34                                      | 1.49       | 1.49       | 1.60   | 28.4           | 23.8          | 17.0          |          |
|                    |            |                              | 36                                      | 1.67       | 1.67       | 1.80   | 30.1           | 25.2          | 18.0          |          |
|                    |            |                              | 38                                      | 1.85       | 1.85       | 1.99   | 31.7           | 26.6          | 19.0          |          |
|                    |            |                              | 40                                      | 2.06       | 2.06       | 2.22   | 33.4           | 28.0          | 20.0          |          |
|                    |            |                              | 42                                      | 2.26       | 2.26       | 2.44   | 35.1           | 29.4          | 21.0          |          |
|                    |            |                              | 44                                      | 2.49       | 2.49       | 2.68   | 36.7           | 30.8          | 22.0          |          |
|                    |            |                              | 46                                      | 2.71       | 2.71       | 2.93   | 38.4           | 32.2          | 23.0          |          |
|                    |            |                              | 48                                      | 2.96       | 2.96       | 3.19   | 40.1           | 33.6          | 24.0          |          |
|                    |            |                              | 50                                      | 3.20       | 3.20       | 3.46   | 41.8           | 35.0          | 25.0          |          |
| 0.68               | IV         | 32                           | 30                                      | 1.11       | 1.11       | 1.21   | 24.7           | 20.4          | 14.4          |          |
|                    |            |                              | 32                                      | 1.27       | 1.27       | 1.37   | 26.3           | 21.8          | 15.4          |          |
|                    |            |                              | 34                                      | 1.43       | 1.43       | 1.56   | 27.9           | 23.1          | 16.4          |          |
|                    |            |                              | 36                                      | 1.61       | 1.61       | 1.75   | 29.6           | 24.5          | 17.3          |          |
|                    |            |                              | 38                                      | 1.78       | 1.78       | 1.94   | 31.2           | 25.8          | 18.3          |          |
|                    |            |                              | 40                                      | 1.98       | 1.98       | 2.16   | 32.9           | 27.2          | 19.3          |          |
|                    |            |                              | 42                                      | 2.18       | 2.18       | 2.37   | 34.5           | 28.6          | 20.2          |          |
|                    |            |                              | 44                                      | 2.40       | 2.40       | 2.60   | 36.2           | 29.9          | 21.2          |          |
|                    |            |                              | 46                                      | 2.62       | 2.62       | 2.84   | 37.8           | 31.3          | 22.1          |          |
|                    |            |                              | 48                                      | 2.85       | 2.85       | 3.10   | 39.5           | 32.6          | 23.1          |          |
|                    |            |                              | 50                                      | 3.09       | 3.09       | 3.36   | 41.1           | 34.0          | 24.0          |          |
|                    |            |                              | 52                                      | 3.34       | 3.34       | 3.63   | 42.7           | 35.4          | 25.0          |          |
| 0.66               | IV         | 34                           | 32                                      | 1.22       | 1.22       | 1.33   | 25.9           | 21.1          | 14.9          |          |
|                    |            |                              | 34                                      | 1.38       | 1.38       | 1.50   | 27.5           | 22.4          | 15.8          |          |
|                    |            |                              | 36                                      | 1.55       | 1.55       | 1.69   | 29.1           | 23.9          | 16.8          |          |
|                    |            |                              | 38                                      | 1.71       | 1.71       | 1.87   | 30.7           | 25.1          | 17.7          |          |
|                    |            |                              | 40                                      | 1.88       | 1.88       | 2.05   | 32.3           | 26.6          | 18.6          |          |
| 0.66               | IV         | 34                           | 42                                      | 2.10       | 2.10       | 2.28   | 33.9           | 27.7          | 19.6          |          |
|                    |            |                              | 44                                      | 2.30       | 2.30       | 2.52   | 35.5           | 29.0          | 20.5          |          |
|                    |            |                              | 46                                      | 2.52       | 2.52       | 2.75   | 37.2           | 30.4          | 21.4          |          |
|                    |            |                              | 48                                      | 2.74       | 2.74       | 3.00   | 38.8           | 31.7          | 22.4          |          |
|                    |            |                              | 50                                      | 2.97       | 2.97       | 3.24   | 40.4           | 33.0          | 23.3          |          |
| 0.66               | IV         | 34                           | 52                                      | 3.22       | 3.22       | 3.51   | 42.0           | 34.3          | 24.2          |          |
|                    |            |                              | 54                                      | 3.47       | 3.47       | 3.79   | 43.6           | 35.6          | 25.2          |          |
|                    |            |                              | 36                                      | 1.49       | 1.49       | 1.64   | 28.6           | 23.0          | 16.2          |          |
|                    |            |                              | 38                                      | 1.65       | 1.65       | 1.81   | 30.2           | 24.3          | 17.1          |          |
|                    |            |                              | 40                                      | 1.84       | 1.84       | 2.02   | 31.8           | 25.6          | 18.0          |          |
| 0.64               | IV         | 36                           | 42                                      | 2.02       | 2.02       | 2.22   | 33.4           | 26.9          | 18.9          |          |
|                    |            |                              | 44                                      | 2.22       | 2.22       | 2.44   | 35.0           | 28.2          | 19.8          |          |
|                    |            |                              | 46                                      | 2.42       | 2.42       | 2.66   | 36.6           | 29.4          | 20.8          |          |
|                    |            |                              | 48                                      | 2.64       | 2.64       | 2.90   | 38.2           | 30.7          | 21.6          |          |
|                    |            |                              | 50                                      | 2.86       | 2.86       | 3.14   | 39.8           | 32.0          | 22.5          |          |
| 0.62               | III        | 38                           | 52                                      | 3.09       | 3.09       | 3.40   | 41.3           | 33.3          | 23.5          |          |
|                    |            |                              | 54                                      | 3.34       | 3.34       | 3.68   | 42.9           | 34.6          | 24.4          |          |
|                    |            |                              | 56                                      | 3.59       | 3.59       | 3.95   | 44.5           | 35.8          | 25.3          |          |
|                    |            |                              | 58                                      | 3.85       | 3.85       | 4.25   | 46.1           | 37.1          | 26.2          |          |
|                    |            |                              | 38                                      | 1.58       | 1.58       | 1.75   | 29.7           | 23.6          | 16.5          |          |
| 0.60               | III        | 39                           | 40                                      | 1.76       | 1.76       | 1.95   | 31.3           | 24.8          | 17.4          |          |
|                    |            |                              | 42                                      | 1.94       | 1.94       | 2.14   | 32.8           | 26.0          | 18.2          |          |
|                    |            |                              | 44                                      | 2.13       | 2.13       | 2.35   | 34.4           | 27.3          | 19.1          |          |
|                    |            |                              | 46                                      | 2.32       | 2.32       | 2.57   | 36.0           | 28.5          | 20.0          |          |
|                    |            |                              | 48                                      | 2.53       | 2.53       | 2.80   | 37.5           | 29.8          | 20.8          |          |
| 0.58               | III        | 41                           | 50                                      | 2.74       | 2.74       | 3.03   | 39.1           | 31.0          | 21.7          |          |
|                    |            |                              | 52                                      | 2.97       | 2.97       | 3.28   | 40.7           | 32.2          | 22.2          |          |
|                    |            |                              | 54                                      | 3.21       | 3.21       | 3.54   | 42.2           | 33.5          | 23.4          |          |
|                    |            |                              | 56                                      | 3.44       | 3.44       | 3.80   | 43.8           | 34.7          | 24.3          |          |
|                    |            |                              | 58                                      | 3.70       | 3.70       | 4.08   | 45.4           | 36.0          | 25.2          |          |
| 0.58               | III        | 41                           | 60                                      | 3.96       | 3.96       | 4.39   | 46.9           | 37.2          | 26.0          |          |
|                    |            |                              | 62                                      | 4.24       | 4.24       | 4.69   | 48.5           | 38.4          | 26.9          |          |
|                    |            |                              | 42                                      | 1.85       | 1.85       | 2.07   | 32.3           | 25.2          | 17.5          |          |
|                    |            |                              | 44                                      | 2.04       | 2.04       | 2.27   | 33.8           | 26.4          | 18.3          |          |
|                    |            |                              | 46                                      | 2.23       | 2.23       | 2.48   | 35.4           | 27.6          | 19.2          |          |
| 0.58               | III        | 41                           | 48                                      | 2.43       | 2.43       | 2.71   | 36.9           | 28.8          | 20.0          |          |
|                    |            |                              | 50                                      | 2.63       | 2.63       | 2.93   | 38.4           | 30.0          | 20.8          |          |
|                    |            |                              | 52                                      | 2.85       | 2.85       | 3.17   | 40.0           | 31.2          | 21.7          |          |
|                    |            |                              | 54                                      | 3.08       | 3.08       | 3.43   | 41.5           | 32.4          | 22.5          |          |
|                    |            |                              | 56                                      | 3.30       | 3.30       | 3.68   | 43.1           | 33.6          | 23.4          |          |
| 0.58               | III        | 41                           | 58                                      | 3.55       | 3.55       | 3.95   | 44.6           | 34.8          | 24.2          |          |
|                    |            |                              | 60                                      | 3.80       | 3.80       | 4.23   | 46.1           | 36.0          | 25.0          |          |
|                    |            |                              | 62                                      | 4.07       | 4.07       | 4.53   | 47.7           | 37.2          | 25.8          |          |
|                    |            |                              | 64                                      | 4.31       | 4.31       | 4.80   | 49.2           | 38.4          | 26.7          |          |
|                    |            |                              | 66                                      | 4.53       | 4.53       | 5.10   | 50.8           | 39.6          | 27.5          |          |
| 0.58               | III        | 41                           | 46                                      | 2.12       | 2.12       | 2.41   | 34.7           | 26.7          | 18.4          |          |
|                    |            |                              | 48                                      | 2.31       | 2.31       | 2.63   | 36.2           | 27.8          | 19.2          |          |
|                    |            |                              | 50                                      | 2.50       | 2.50       | 2.85   | 37.8           | 29.0          | 20.0          |          |
|                    |            |                              | 52                                      | 2.71       | 2.71       | 3.09   | 39.3           | 30.2          | 20.9          |          |
|                    |            |                              | 54                                      | 2.92       | 2.92       | 3.32   | 40.8           | 31.4          | 21.7          |          |

## Höhe 34 m.

## Höhe 35 m.

| Formquotient $q_2$ | Formklasse | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |          |    |                |    |       |       |      |      |      |      |
|--------------------|------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|----------|----|----------------|----|-------|-------|------|------|------|------|
|                    |            |                              |                                         | Schaftes   | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |          |    |                |    |       |       |      |      |      |      |
|                    |            |                              |                                         |            |            |        |                |               |               | der Höhe |    |                |    |       |       |      |      |      |      |
|                    |            |                              |                                         |            |            |        |                |               |               |          | cm | m <sup>3</sup> | cm |       |       |      |      |      |      |
| 0-58               | III        | 41                           | 54                                      | 2-93       | 2-93       | 3-33   | 40-8           | 31-3          | 21-7          | 0-74     | V  | 27             | 26 | 0-960 | 0-955 | 1-02 | 22-4 | 19-2 | 13-8 |
|                    |            |                              | 56                                      | 3-14       | 3-14       | 3-53   | 42-3           | 32-5          | 22-4          |          |    |                | 28 | 1-11  | 1-10  | 1-19 | 24-1 | 20-7 | 14-8 |
|                    |            |                              | 58                                      | 3-38       | 3-38       | 3-84   | 43-8           | 33-6          | 23-3          |          |    |                | 30 | 1-27  | 1-27  | 1-36 | 25-9 | 22-2 | 15-9 |
|                    |            |                              | 60                                      | 3-62       | 3-62       | 4-12   | 45-3           | 34-8          | 24-1          |          |    |                | 32 | 1-45  | 1-45  | 1-55 | 27-6 | 23-7 | 16-9 |
|                    |            |                              | 62                                      | 3-87       | 3-87       | 4-41   | 46-8           | 36-9          | 24-9          |          |    |                | 34 | 1-64  | 1-64  | 1-75 | 29-3 | 25-2 | 18-0 |
|                    |            |                              | 64                                      | 4-10       | 4-10       | 4-68   | 48-3           | 37-1          | 25-7          |          |    |                | 36 | 1-84  | 1-84  | 1-96 | 31-0 | 26-6 | 19-0 |
|                    |            |                              | 66                                      | 4-36       | 4-36       | 4-96   | 49-8           | 38-3          | 26-5          |          |    |                | 38 | 2-04  | 2-04  | 2-18 | 32-8 | 28-1 | 20-1 |
|                    |            |                              | 68                                      | 4-62       | 4-62       | 5-26   | 51-3           | 39-4          | 27-3          |          |    |                | 40 | 2-27  | 2-27  | 2-42 | 34-4 | 29-6 | 21-1 |
|                    |            |                              | 70                                      | 4-93       | 4-93       | 5-61   | 52-8           | 40-6          | 28-1          |          |    |                | 42 | 2-50  | 2-50  | 2-66 | 36-2 | 31-1 | 22-2 |
| 0-56               | II         | 42                           | 54                                      | 2-80       | 2-80       | 3-16   | 40-1           | 30-2          | 20-8          | 0-72     | V  | 29             | 44 | 2-74  | 2-74  | 2-92 | 37-9 | 32-6 | 23-3 |
|                    |            |                              | 56                                      | 3-01       | 3-01       | 3-42   | 41-6           | 31-4          | 21-6          |          |    |                | 46 | 3-00  | 3-00  | 3-19 | 39-7 | 34-0 | 24-3 |
|                    |            |                              | 58                                      | 3-23       | 3-23       | 3-67   | 43-0           | 32-5          | 22-3          |          |    |                | 28 | 1-07  | 1-06  | 1-15 | 23-7 | 20-2 | 14-5 |
|                    |            |                              | 60                                      | 3-46       | 3-46       | 3-93   | 44-5           | 33-6          | 23-1          |          |    |                | 30 | 1-24  | 1-24  | 1-32 | 24-4 | 21-6 | 15-5 |
|                    |            |                              | 62                                      | 3-71       | 3-71       | 4-21   | 46-0           | 34-7          | 23-9          |          |    |                | 32 | 1-40  | 1-40  | 1-50 | 27-1 | 23-0 | 16-6 |
|                    |            |                              | 64                                      | 3-92       | 3-92       | 4-46   | 47-5           | 35-8          | 24-6          |          |    |                | 34 | 1-58  | 1-58  | 1-69 | 28-8 | 24-5 | 17-6 |
|                    |            |                              | 66                                      | 4-18       | 4-18       | 4-74   | 49-0           | 37-0          | 25-4          |          |    |                | 36 | 1-78  | 1-78  | 1-90 | 30-5 | 25-9 | 18-6 |
|                    |            |                              | 68                                      | 4-43       | 4-43       | 5-03   | 50-5           | 38-1          | 26-2          |          |    |                | 38 | 1-97  | 1-97  | 2-11 | 32-2 | 27-4 | 19-7 |
|                    |            |                              | 70                                      | 4-72       | 4-72       | 5-36   | 51-9           | 39-2          | 27-0          |          |    |                | 40 | 2-20  | 2-20  | 2-35 | 33-9 | 28-8 | 20-7 |
| 0-54               | II         | 45                           | 72                                      | 4-97       | 4-97       | 5-64   | 53-4           | 40-3          | 27-7          | 0-70     | V  | 31             | 42 | 2-41  | 2-41  | 2-58 | 35-6 | 30-2 | 21-8 |
|                    |            |                              | 74                                      | 5-22       | 5-22       | 5-93   | 54-9           | 41-4          | 28-5          |          |    |                | 44 | 2-65  | 2-65  | 2-83 | 37-3 | 31-7 | 22-8 |
|                    |            |                              | 76                                      | 5-54       | 5-54       | 6-30   | 56-4           | 42-6          | 29-3          |          |    |                | 46 | 2-89  | 2-89  | 3-10 | 39-0 | 33-1 | 23-8 |
|                    |            |                              | 78                                      | 5-83       | 5-83       | 6-63   | 57-9           | 43-7          | 30-0          |          |    |                | 48 | 3-15  | 3-15  | 3-37 | 40-7 | 34-6 | 24-9 |
|                    |            |                              | 60                                      | 3-30       | 3-30       | 3-79   | 43-7           | 32-4          | 22-0          |          |    |                | 28 | 1-04  | 1-03  | 1-12 | 23-4 | 19-6 | 14-0 |
|                    |            |                              | 62                                      | 3-53       | 3-53       | 4-02   | 45-1           | 33-5          | 22-7          |          |    |                | 30 | 1-19  | 1-19  | 1-28 | 25-0 | 21-0 | 15-0 |
|                    |            |                              | 64                                      | 3-74       | 3-74       | 4-29   | 46-6           | 34-6          | 23-4          |          |    |                | 32 | 1-35  | 1-35  | 1-45 | 26-7 | 22-4 | 16-0 |
|                    |            |                              | 66                                      | 3-98       | 3-98       | 4-57   | 48-0           | 35-6          | 24-2          |          |    |                | 34 | 1-53  | 1-53  | 1-65 | 28-4 | 23-8 | 17-0 |
|                    |            |                              | 68                                      | 4-22       | 4-22       | 4-85   | 49-5           | 36-7          | 24-9          |          |    |                | 36 | 1-72  | 1-72  | 1-85 | 30-0 | 25-2 | 18-0 |
| 0-52               | II         | 46                           | 70                                      | 4-49       | 4-49       | 5-16   | 51-0           | 37-8          | 25-6          | 0-68     | IV | 32             | 38 | 1-90  | 1-90  | 2-05 | 31-7 | 26-6 | 19-0 |
|                    |            |                              | 72                                      | 4-73       | 4-73       | 5-44   | 52-4           | 38-9          | 26-4          |          |    |                | 40 | 2-12  | 2-12  | 2-28 | 33-4 | 28-0 | 20-0 |
|                    |            |                              | 74                                      | 5-08       | 5-08       | 5-71   | 53-9           | 40-0          | 27-1          |          |    |                | 42 | 2-33  | 2-33  | 2-51 | 35-1 | 29-4 | 21-0 |
|                    |            |                              | 76                                      | 5-28       | 5-28       | 6-07   | 55-3           | 41-0          | 27-8          |          |    |                | 44 | 2-56  | 2-56  | 2-76 | 36-7 | 30-8 | 22-0 |
|                    |            |                              | 78                                      | 5-56       | 5-56       | 6-38   | 56-8           | 42-1          | 28-5          |          |    |                | 46 | 2-79  | 2-79  | 3-01 | 38-4 | 32-2 | 23-0 |
|                    |            |                              | 80                                      | 5-87       | 5-87       | 6-74   | 58-2           | 43-2          | 29-3          |          |    |                | 48 | 3-04  | 3-04  | 3-23 | 40-1 | 33-6 | 24-0 |
|                    |            |                              | 82                                      | 6-17       | 6-17       | 7-09   | 59-7           | 44-3          | 30-0          |          |    |                | 50 | 3-30  | 3-30  | 3-55 | 41-7 | 35-0 | 25-1 |
|                    |            |                              | 84                                      | 6-48       | 6-48       | 7-45   | 61-2           | 45-4          | 30-7          |          |    |                | 30 | 1-14  | 1-14  | 1-24 | 24-6 | 20-4 | 14-6 |
|                    |            |                              | 86                                      | 6-79       | 6-79       | 7-80   | 62-6           | 46-4          | 31-5          |          |    |                | 32 | 1-30  | 1-30  | 1-41 | 26-3 | 21-8 | 15-5 |
| 0-66               | IV         | 34                           | 70                                      | 4-26       | 4-26       | 4-94   | 50-1           | 36-4          | 24-5          | 0-66     | IV | 34             | 34 | 1-47  | 1-47  | 1-60 | 27-9 | 23-1 | 16-5 |
|                    |            |                              | 72                                      | 4-48       | 4-48       | 5-20   | 51-6           | 37-4          | 25-2          |          |    |                | 36 | 1-65  | 1-65  | 1-79 | 29-6 | 24-5 | 17-4 |
|                    |            |                              | 74                                      | 4-81       | 4-81       | 5-47   | 53-0           | 38-5          | 25-9          |          |    |                | 38 | 1-83  | 1-83  | 1-99 | 31-2 | 25-8 | 18-4 |
|                    |            |                              | 76                                      | 5-00       | 5-00       | 5-81   | 54-4           | 39-5          | 26-6          |          |    |                | 40 | 2-04  | 2-04  | 2-21 | 32-8 | 27-2 | 19-4 |
|                    |            |                              | 78                                      | 5-26       | 5-26       | 6-11   | 55-8           | 40-6          | 27-3          |          |    |                | 42 | 2-24  | 2-24  | 2-43 | 34-5 | 28-6 | 20-4 |
|                    |            |                              | 80                                      | 5-56       | 5-56       | 6-45   | 57-3           | 41-6          | 28-0          |          |    |                | 44 | 2-46  | 2-46  | 2-67 | 36-1 | 29-9 | 21-3 |
|                    |            |                              | 82                                      | 5-85       | 5-85       | 6-79   | 58-7           | 42-6          | 28-7          |          |    |                | 46 | 2-69  | 2-69  | 2-92 | 37-8 | 31-8 | 22-3 |
|                    |            |                              | 84                                      | 6-14       | 6-14       | 7-12   | 60-1           | 43-7          | 29-4          |          |    |                | 48 | 2-93  | 2-93  | 3-18 | 39-4 | 32-6 | 23-3 |
|                    |            |                              | 86                                      | 6-44       | 6-44       | 7-46   | 61-6           | 44-7          | 30-1          |          |    |                | 50 | 3-18  | 3-18  | 3-44 | 41-0 | 34-0 | 24-2 |
| 0-68               | IV         | 32                           | 88                                      | 6-73       | 6-73       | 7-80   | 63-0           | 45-8          | 30-8          | 0-66     | IV | 34             | 52 | 3-43  | 3-43  | 3-72 | 42-7 | 35-4 | 25-2 |
|                    |            |                              | 90                                      | 7-02       | 7-02       | 8-14   | 64-4           | 46-8          | 31-5          |          |    |                | 32 | 1-25  | 1-25  | 1-36 | 25-9 | 21-1 | 14-9 |
|                    |            |                              | 92                                      | 7-34       | 7-34       | 8-52   | 65-9           | 47-8          | 32-2          |          |    |                | 34 | 1-42  | 1-42  | 1-54 | 27-5 | 22-4 | 15-9 |
|                    |            |                              | 94                                      | 7-67       | 7-67       | 8-90   | 67-3           | 48-9          | 32-9          |          |    |                | 36 | 1-59  | 1-59  | 1-73 | 29-1 | 23-8 | 16-8 |
| 0-52               | II         | 46                           | 96                                      | 7-99       | 7-99       | 9-27   | 68-7           | 49-9          | 33-6          | 0-66     | IV | 34             | 38 | 1-77  | 1-77  | 1-92 | 30-7 | 25-1 | 17-7 |

## Höhe 35 m.

## Höhe 35 m.

| Formquotient $q_2$ | Formklasse     | Kronenlänge in %<br>der Höhe | Durchmesser bei 1,3 m<br>über dem Boden | Inhalt des |            |        | Durchmesser in |               |               |      |     |    |     |      |      |      |      |      |      |
|--------------------|----------------|------------------------------|-----------------------------------------|------------|------------|--------|----------------|---------------|---------------|------|-----|----|-----|------|------|------|------|------|------|
|                    |                |                              |                                         | Schafftes  | Derbholzes | Baumes | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{3}{4}$ |      |     |    |     |      |      |      |      |      |      |
|                    |                |                              |                                         |            |            |        | der Höhe       |               |               |      |     |    |     |      |      |      |      |      |      |
|                    |                |                              |                                         |            |            |        |                |               |               |      |     |    |     |      |      |      |      |      |      |
| cm                 | m <sup>3</sup> |                              |                                         | cm         |            |        |                |               |               |      |     |    |     |      |      |      |      |      |      |
| 0-66               | IV             | 34                           | 40                                      | 1-97       | 1-97       | 2-14   | 32-3           | 26-4          | 18-7          | 0-58 | III | 40 | 58  | 3-47 | 3-47 | 3-91 | 43-8 | 33-6 | 23-3 |
|                    |                |                              | 42                                      | 2-16       | 2-16       | 2-35   | 33-9           | 27-7          | 19-6          |      |     |    | 60  | 3-72 | 3-72 | 4-19 | 45-3 | 34-8 | 24-0 |
|                    |                |                              | 44                                      | 2-37       | 2-37       | 2-58   | 35-6           | 29-0          | 20-5          |      |     |    | 62  | 3-99 | 3-99 | 4-48 | 46-8 | 36-0 | 24-9 |
|                    |                |                              | 46                                      | 2-59       | 2-59       | 2-82   | 37-2           | 30-4          | 21-5          |      |     |    | 64  | 4-25 | 4-25 | 4-78 | 48-3 | 37-1 | 25-7 |
|                    |                |                              | 48                                      | 2-82       | 2-82       | 3-08   | 38-8           | 31-7          | 22-4          |      |     |    | 66  | 4-51 | 4-51 | 5-08 | 49-8 | 38-3 | 26-5 |
|                    |                |                              | 50                                      | 3-06       | 3-06       | 3-33   | 40-4           | 33-0          | 23-3          |      |     |    | 68  | 4-78 | 4-78 | 5-37 | 51-3 | 39-4 | 27-3 |
|                    |                |                              | 52                                      | 3-31       | 3-31       | 3-61   | 42-0           | 34-3          | 24-3          |      |     |    | 70  | 5-07 | 5-07 | 5-71 | 52-9 | 40-6 | 28-1 |
|                    |                |                              | 54                                      | 3-57       | 3-59       | 3-89   | 43-6           | 35-6          | 25-2          |      |     |    | 72  | 5-34 | 5-34 | 6-00 | 54-4 | 41-8 | 28-9 |
| 0-64               | IV             | 35                           | 36                                      | 1-53       | 1-53       | 1-68   | 28-6           | 23-0          | 16-2          | 0-56 | II  | 42 | 74  | 5-64 | 5-64 | 6-34 | 55-9 | 42-9 | 29-7 |
|                    |                |                              | 38                                      | 1-69       | 1-69       | 1-86   | 30-2           | 24-3          | 17-1          |      |     |    | 56  | 3-09 | 3-09 | 3-50 | 41-6 | 31-4 | 21-6 |
|                    |                |                              | 40                                      | 1-89       | 1-89       | 2-07   | 31-8           | 25-6          | 18-0          |      |     |    | 58  | 3-32 | 3-32 | 3-75 | 43-0 | 32-5 | 22-3 |
|                    |                |                              | 42                                      | 2-07       | 2-07       | 2-27   | 33-3           | 26-9          | 18-9          |      |     |    | 60  | 3-55 | 3-55 | 4-06 | 44-5 | 33-6 | 23-1 |
|                    |                |                              | 44                                      | 2-28       | 2-28       | 2-50   | 34-9           | 28-2          | 19-8          |      |     |    | 62  | 3-81 | 3-81 | 4-31 | 46-0 | 34-7 | 23-9 |
|                    |                |                              | 46                                      | 2-49       | 2-49       | 2-73   | 36-3           | 29-4          | 20-6          |      |     |    | 64  | 4-06 | 4-06 | 4-60 | 47-5 | 35-8 | 24-6 |
|                    |                |                              | 48                                      | 2-71       | 2-71       | 2-98   | 38-1           | 30-7          | 21-7          |      |     |    | 66  | 4-31 | 4-31 | 4-88 | 49-0 | 37-0 | 25-4 |
|                    |                |                              | 50                                      | 2-94       | 2-94       | 3-22   | 39-7           | 32-0          | 22-6          |      |     |    | 68  | 4-56 | 4-56 | 5-17 | 50-5 | 38-1 | 26-2 |
|                    |                |                              | 52                                      | 3-17       | 3-17       | 3-49   | 41-3           | 33-3          | 23-5          |      |     |    | 70  | 4-85 | 4-85 | 5-49 | 51-9 | 39-2 | 27-0 |
|                    |                |                              | 54                                      | 3-43       | 3-43       | 3-76   | 42-9           | 34-6          | 24-4          |      |     |    | 72  | 5-10 | 5-10 | 5-78 | 53-4 | 40-3 | 27-7 |
| 0-62               | III            | 37                           | 56                                      | 3-68       | 3-68       | 4-04   | 44-5           | 35-8          | 25-3          | 0-54 | II  | 44 | 74  | 5-39 | 5-39 | 6-10 | 54-9 | 41-4 | 28-5 |
|                    |                |                              | 58                                      | 3-95       | 3-95       | 4-34   | 46-1           | 37-1          | 26-2          |      |     |    | 76  | 5-71 | 5-71 | 6-47 | 56-4 | 42-6 | 29-3 |
|                    |                |                              | 38                                      | 1-63       | 1-63       | 1-80   | 29-7           | 23-6          | 16-5          |      |     |    | 78  | 5-99 | 5-99 | 6-80 | 57-9 | 43-7 | 30-0 |
|                    |                |                              | 40                                      | 1-82       | 1-82       | 2-00   | 31-2           | 24-8          | 17-4          |      |     |    | 80  | 6-32 | 6-32 | 7-16 | 59-4 | 44-8 | 30-8 |
|                    |                |                              | 42                                      | 1-99       | 1-99       | 2-20   | 32-8           | 26-0          | 18-2          |      |     |    | 64  | 3-86 | 3-86 | 4-43 | 46-6 | 34-6 | 23-5 |
|                    |                |                              | 44                                      | 2-19       | 2-19       | 2-41   | 34-4           | 27-3          | 19-1          |      |     |    | 66  | 4-10 | 4-10 | 4-70 | 48-0 | 35-6 | 24-2 |
|                    |                |                              | 46                                      | 2-39       | 2-39       | 2-64   | 35-9           | 28-5          | 20-0          |      |     |    | 68  | 4-34 | 4-34 | 4-98 | 49-5 | 36-7 | 25-0 |
|                    |                |                              | 48                                      | 2-61       | 2-61       | 2-89   | 37-5           | 29-8          | 20-8          |      |     |    | 70  | 4-62 | 4-62 | 5-29 | 51-0 | 37-8 | 25-7 |
|                    |                |                              | 50                                      | 2-83       | 2-83       | 3-13   | 39-0           | 31-0          | 21-9          |      |     |    | 72  | 4-86 | 4-86 | 5-57 | 52-4 | 38-9 | 26-4 |
|                    |                |                              | 52                                      | 3-06       | 3-06       | 3-38   | 40-6           | 32-2          | 22-6          |      |     |    | 74  | 5-13 | 5-13 | 5-83 | 53-9 | 40-0 | 27-2 |
| 0-60               | III            | 39                           | 54                                      | 3-30       | 3-30       | 3-65   | 42-2           | 33-5          | 23-4          | 0-52 | II  | 46 | 76  | 5-44 | 5-44 | 6-23 | 55-3 | 41-0 | 27-9 |
|                    |                |                              | 56                                      | 3-55       | 3-55       | 3-93   | 43-7           | 34-7          | 24-3          |      |     |    | 78  | 5-71 | 5-71 | 6-55 | 56-8 | 42-1 | 28-6 |
|                    |                |                              | 58                                      | 3-81       | 3-81       | 4-21   | 45-3           | 36-0          | 25-2          |      |     |    | 80  | 6-02 | 6-02 | 6-90 | 58-2 | 43-2 | 29-4 |
|                    |                |                              | 60                                      | 4-08       | 4-08       | 4-51   | 46-9           | 37-2          | 26-0          |      |     |    | 82  | 6-33 | 6-33 | 7-25 | 59-7 | 44-3 | 30-1 |
|                    |                |                              | 62                                      | 4-37       | 4-37       | 4-83   | 48-4           | 38-4          | 26-9          |      |     |    | 84  | 6-63 | 6-63 | 7-60 | 61-2 | 45-4 | 30-8 |
|                    |                |                              | 42                                      | 1-91       | 1-91       | 2-12   | 32-3           | 25-2          | 17-6          |      |     |    | 86  | 6-94 | 6-94 | 7-96 | 62-6 | 46-4 | 31-6 |
|                    |                |                              | 44                                      | 2-10       | 2-10       | 2-33   | 33-8           | 26-4          | 18-4          |      |     |    | 88  | 7-28 | 7-28 | 8-35 | 64-1 | 47-5 | 32-3 |
|                    |                |                              | 46                                      | 2-29       | 2-29       | 2-54   | 35-3           | 27-5          | 19-2          |      |     |    | 90  | 7-63 | 7-63 | 8-74 | 65-5 | 48-6 | 33-0 |
|                    |                |                              | 48                                      | 2-49       | 2-49       | 2-77   | 36-0           | 28-8          | 20-1          |      |     |    | 74  | 4-87 | 4-87 | 5-64 | 52-9 | 38-5 | 25-9 |
|                    |                |                              | 50                                      | 2-70       | 2-70       | 3-00   | 38-4           | 30-0          | 20-9          |      |     |    | 76  | 5-17 | 5-17 | 5-98 | 54-3 | 39-5 | 26-6 |
| 0-58               | III            | 40                           | 52                                      | 2-92       | 2-92       | 3-25   | 39-9           | 31-2          | 21-7          | 0-52 | II  | 46 | 78  | 5-43 | 5-43 | 6-23 | 55-8 | 40-6 | 27-3 |
|                    |                |                              | 54                                      | 3-16       | 3-16       | 3-51   | 41-5           | 32-4          | 22-6          |      |     |    | 80  | 5-72 | 5-72 | 6-62 | 57-2 | 41-6 | 28-0 |
|                    |                |                              | 56                                      | 3-39       | 3-39       | 3-77   | 43-0           | 33-6          | 23-4          |      |     |    | 82  | 6-01 | 6-01 | 6-96 | 58-6 | 42-6 | 28-7 |
|                    |                |                              | 58                                      | 3-64       | 3-64       | 4-05   | 44-5           | 34-8          | 24-2          |      |     |    | 84  | 6-31 | 6-31 | 7-29 | 60-0 | 43-7 | 29-4 |
|                    |                |                              | 60                                      | 3-90       | 3-90       | 4-34   | 46-0           | 36-0          | 25-1          |      |     |    | 86  | 6-60 | 6-60 | 7-63 | 61-5 | 44-7 | 30-1 |
|                    |                |                              | 62                                      | 4-17       | 4-17       | 4-64   | 47-6           | 37-2          | 25-9          |      |     |    | 88  | 6-92 | 6-92 | 8-00 | 62-9 | 45-8 | 30-8 |
|                    |                |                              | 64                                      | 4-45       | 4-45       | 4-95   | 49-2           | 38-4          | 26-8          |      |     |    | 90  | 7-25 | 7-25 | 8-38 | 64-3 | 46-8 | 31-5 |
|                    |                |                              | 66                                      | 4-73       | 4-73       | 5-26   | 50-7           | 39-6          | 27-6          |      |     |    | 92  | 7-57 | 7-57 | 8-76 | 65-8 | 47-8 | 32-2 |
| 0-58               | III            | 40                           | 50                                      | 2-58       | 2-58       | 2-90   | 37-8           | 29-0          | 20-0          | 0-52 | II  | 46 | 94  | 7-90 | 7-90 | 9-14 | 67-2 | 48-9 | 32-9 |
|                    |                |                              | 52                                      | 2-79       | 2-79       | 3-14   | 39-3           | 30-2          | 20-9          |      |     |    | 96  | 8-22 | 8-22 | 9-51 | 68-6 | 49-9 | 33-6 |
|                    |                |                              | 54                                      | 3-01       | 3-01       | 3-39   | 40-8           | 31-3          | 21-7          |      |     |    | 98  | 8-58 | 8-58 | 9-93 | 70-0 | 51-0 | 34-3 |
|                    |                |                              | 56                                      | 3-24       | 3-24       | 3-64   | 42-3           | 32-5          | 22-5          |      |     |    | 100 | 8-94 | 8-94 | 10-4 | 71-5 | 52-0 | 35-0 |

### III.

## Massen- und Derbholzsortierungstafel.

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Zu gebrauchen

mit dem Eingange: Höhe und Brusthöhendurchmesser.

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| Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t    |                |                | Derbholzlänge | Derbholzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t    |                |                | Derbholzlänge | Derbholzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |
|------|--------------------------------------------|----------------|----------------|----------------|---------------|--------------------------------|-------------------------------------------------|------|--------------------------------------------|----------------|----------------|----------------|---------------|--------------------------------|-------------------------------------------------|
|      |                                            | Schaftholz     | Derbholz       | Baumholz       |               |                                |                                                 |      |                                            | Schaftholz     | Derbholz       | Baumholz       |               |                                |                                                 |
|      |                                            | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> |               |                                |                                                 |      |                                            | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> |               |                                |                                                 |
| m    | cm                                         |                |                |                | m             | cm                             |                                                 | m    | cm                                         |                |                |                | m             | cm                             |                                                 |
| 6    | 4                                          | 0·004          | —              | 0·006          | —             | —                              | 55                                              | 9    | 14                                         | 0·067          | 0·063          | 0·089          | 5·5           | 11·2                           | 52                                              |
|      | 5                                          | 006            | —              | 009            | —             | —                              | 56                                              |      | 15                                         | 076            | 072            | 101            | 5·9           | 11·7                           | 53                                              |
|      | 6                                          | 009            | 0·001          | 013            | 0·2           | 7·0                            | 57                                              |      | 16                                         | 085            | 081            | 114            | 6·1           | 12·2                           | 53                                              |
|      | 7                                          | 012            | 006            | 018            | 1·2           | 7·7                            | 58                                              |      | 17                                         | 094            | 091            | 128            | 6·3           | 12·6                           | 54                                              |
|      | 8                                          | 016            | 009            | 023            | 1·6           | 8·5                            | 59                                              | 10   | 7                                          | 0·020          | 0·007          | 0·026          | 1·3           | 7·5                            | 42                                              |
|      | 9                                          | 020            | 014            | 029            | 2·0           | 9·4                            | 60                                              |      | 8                                          | 026            | 016            | 034            | 2·4           | 8·0                            | 43                                              |
|      | 10                                         | 024            | 019            | 036            | 2·3           | 10·3                           | 61                                              |      | 9                                          | 033            | 025            | 042            | 3·6           | 8·5                            | 44                                              |
|      | 11                                         | 029            | 024            | 043            | 2·5           | 11·1                           | 62                                              |      | 10                                         | 040            | 034            | 052            | 4·6           | 9·8                            | 45                                              |
|      | 12                                         | 034            | 029            | 050            | 2·6           | 12·0                           | 63                                              |      | 11                                         | 048            | 042            | 063            | 5·4           | 9·5                            | 46                                              |
|      | 13                                         | 039            | 035            | 059            | 2·7           | 12·8                           | 64                                              |      | 12                                         | 056            | 051            | 074            | 5·8           | 9·6                            | 47                                              |
|      | 14                                         | 044            | 040            | 068            | 2·8           | 13·5                           | 64                                              |      | 13                                         | 065            | 060            | 086            | 6·2           | 10·2                           | 48                                              |
|      | 15                                         | 051            | 047            | 077            | 2·9           | 14·2                           | 65                                              |      | 14                                         | 075            | 071            | 100            | 6·5           | 10·8                           | 49                                              |
| 7    | 4                                          | 0·005          | —              | 0·007          | —             | —                              | 51                                              | 11   | 15                                         | 084            | 080            | 112            | 6·7           | 11·3                           | 50                                              |
|      | 5                                          | 007            | —              | 010            | —             | —                              | 52                                              |      | 16                                         | 094            | 090            | 126            | 6·9           | 11·8                           | 51                                              |
|      | 6                                          | 011            | 0·001          | 015            | 0·2           | 2·0                            | 53                                              |      | 17                                         | 105            | 102            | 141            | 7·2           | 12·3                           | 51                                              |
|      | 7                                          | 014            | 005            | 020            | 1·2           | 7·6                            | 54                                              |      | 18                                         | 116            | 113            | 160            | 7·3           | 12·8                           | 52                                              |
|      | 8                                          | 018            | 012            | 026            | 2·0           | 8·3                            | 55                                              | 11   | 8                                          | 0·029          | 0·018          | 0·037          | 3·4           | 7·4                            | 40                                              |
|      | 9                                          | 023            | 017            | 032            | 2·6           | 9·0                            | 56                                              |      | 9                                          | 036            | 028            | 046            | 4·6           | 8·0                            | 41                                              |
|      | 10                                         | 028            | 023            | 040            | 3·2           | 9·8                            | 57                                              |      | 10                                         | 044            | 037            | 057            | 5·4           | 8·5                            | 42                                              |
|      | 11                                         | 033            | 028            | 048            | 3·6           | 10·5                           | 58                                              |      | 11                                         | 053            | 047            | 068            | 6·2           | 9·1                            | 43                                              |
|      | 12                                         | 039            | 035            | 056            | 3·8           | 11·2                           | 58                                              |      | 12                                         | 062            | 057            | 080            | 6·6           | 9·7                            | 44                                              |
|      | 13                                         | 045            | 041            | 065            | 4·0           | 11·9                           | 59                                              |      | 13                                         | 072            | 067            | 093            | 6·9           | 10·3                           | 45                                              |
|      | 14                                         | 052            | 049            | 075            | 4·2           | 12·6                           | 59                                              |      | 14                                         | 082            | 078            | 107            | 7·2           | 10·8                           | 46                                              |
|      | 15                                         | 058            | 053            | 086            | 4·3           | 13·2                           | 60                                              |      | 15                                         | 093            | 089            | 123            | 7·4           | 11·3                           | 47                                              |
| 8    | 5                                          | 0·009          | —              | 0·011          | —             | —                              | 48                                              | 12   | 16                                         | 104            | 100            | 138            | 7·6           | 11·8                           | 48                                              |
|      | 6                                          | 012            | 0·001          | 016            | 0·2           | 7·0                            | 49                                              |      | 17                                         | 116            | 112            | 154            | 7·8           | 12·2                           | 48                                              |
|      | 7                                          | 016            | 006            | 022            | 1·2           | 7·6                            | 50                                              |      | 18                                         | 129            | 125            | 171            | 8·0           | 12·8                           | 49                                              |
|      | 8                                          | 021            | 014            | 028            | 2·2           | 8·2                            | 51                                              |      | 19                                         | 143            | 140            | 191            | 8·1           | 13·4                           | 49                                              |
|      | 9                                          | 026            | 019            | 036            | 2·8           | 8·8                            | 52                                              |      | 20                                         | 157            | 154            | 210            | 8·2           | 14·1                           | 50                                              |
|      | 10                                         | 032            | 026            | 043            | 3·4           | 9·4                            | 53                                              | 12   | 8                                          | 0·032          | 0·021          | 0·039          | 4·2           | 7·5                            | 38                                              |
|      | 11                                         | 038            | 033            | 052            | 3·9           | 10·0                           | 54                                              |      | 9                                          | 040            | 032            | 049            | 5·7           | 8·0                            | 39                                              |
|      | 12                                         | 044            | 040            | 061            | 4·3           | 10·6                           | 54                                              |      | 10                                         | 049            | 042            | 060            | 6·2           | 8·5                            | 40                                              |
|      | 13                                         | 051            | 047            | 071            | 4·6           | 11·2                           | 55                                              |      | 11                                         | 058            | 052            | 072            | 6·7           | 9·0                            | 41                                              |
|      | 14                                         | 059            | 055            | 082            | 4·9           | 11·8                           | 55                                              |      | 12                                         | 068            | 062            | 085            | 7·0           | 9·6                            | 42                                              |
|      | 15                                         | 067            | 063            | 093            | 5·2           | 12·4                           | 56                                              |      | 13                                         | 078            | 073            | 099            | 7·4           | 10·2                           | 43                                              |
|      | 16                                         | 075            | 072            | 105            | 5·4           | 13·0                           | 56                                              |      | 14                                         | 090            | 085            | 113            | 7·7           | 10·7                           | 44                                              |
| 9    | 6                                          | 0·014          | 0·001          | 0·018          | 0·2           | 7·0                            | 45                                              |      | 15                                         | 101            | 097            | 131            | 8·0           | 11·3                           | 45                                              |
|      | 7                                          | 018            | 006            | 024            | 1·2           | 7·6                            | 46                                              |      | 16                                         | 114            | 110            | 146            | 8·3           | 11·8                           | 45                                              |
|      | 8                                          | 024            | 015            | 031            | 2·5           | 8·0                            | 47                                              |      | 17                                         | 127            | 123            | 190            | 8·5           | 12·3                           | 46                                              |
|      | 9                                          | 030            | 023            | 038            | 3·2           | 8·6                            | 48                                              |      | 18                                         | 141            | 137            | 182            | 8·6           | 12·8                           | 46                                              |
|      | 10                                         | 036            | 030            | 047            | 3·8           | 9·1                            | 49                                              |      | 19                                         | 156            | 152            | 202            | 8·8           | 13·4                           | 47                                              |
|      | 11                                         | 043            | 038            | 057            | 4·4           | 9·7                            | 50                                              |      | 20                                         | 171            | 168            | 222            | 9·0           | 14·2                           | 47                                              |
|      | 12                                         | 051            | 046            | 067            | 4·9           | 10·2                           | 51                                              |      | 21                                         | 187            | 184            | 243            | 9·1           | 14·9                           | 48                                              |
|      | 13                                         | 059            | 055            | 078            | 5·2           | 10·7                           | 51                                              |      | 22                                         | 203            | 200            | 265            | 9·1           | 15·3                           | 48                                              |

| Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t    |         |          | Derbolzlänge | Derbolzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t    |         |          | Derbolzlänge | Derbolzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |
|------|--------------------------------------------|----------------|---------|----------|--------------|--------------------------|-------------------------------------------------|------|--------------------------------------------|----------------|---------|----------|--------------|--------------------------|-------------------------------------------------|
|      |                                            | Schaftholz     | Derholz | Baumholz |              |                          |                                                 |      |                                            | Schaftholz     | Derholz | Baumholz |              |                          |                                                 |
| m    | cm                                         | m <sup>3</sup> |         |          | m            | cm                       |                                                 | m    | cm                                         | m <sup>3</sup> |         |          | m            | cm                       |                                                 |
| 13   | 8                                          | 0·035          | 0·023   | 0·042    | 5·5          | 7·2                      | 36                                              | 15   | 24                                         | 0·300          | 0·296   | 0·369    | 12·2         | 16·0                     | 42                                              |
|      | 9                                          | 043            | 034     | 052      | 6·3          | 7·7                      | 37                                              |      | 25                                         | 322            | 319     | 397      | 12·2         | 17·5                     | 43                                              |
|      | 10                                         | 053            | 045     | 064      | 7·0          | 8·3                      | 38                                              |      | 26                                         | 345            | 342     | 427      | 12·2         | 18·1                     | 43                                              |
|      | 11                                         | 063            | 056     | 076      | 7·6          | 9·1                      | 39                                              |      | 27                                         | 369            | 366     | 458      | 12·3         | 18·6                     | 43                                              |
|      | 12                                         | 074            | 068     | 090      | 8·1          | 9·7                      | 40                                              |      | 28                                         | 394            | 391     | 489      | 12·3         | 19·1                     | 43                                              |
|      | 13                                         | 086            | 080     | 105      | 8·5          | 10·2                     | 41                                              |      | 29                                         | 419            | 416     | 521      | 12·3         | 19·6                     | 43                                              |
|      | 14                                         | 098            | 093     | 120      | 8·8          | 10·7                     | 41                                              |      | 30                                         | 446            | 443     | 557      | 12·3         | 20·1                     | 43                                              |
|      | 15                                         | 111            | 106     | 137      | 9·0          | 11·3                     | 42                                              | 16   | 11                                         | 0·078          | 0·070   | 0·091    | 11·0         | 8·9                      | 34                                              |
|      | 16                                         | 125            | 121     | 154      | 9·2          | 11·8                     | 42                                              |      | 12                                         | 092            | 085     | 108      | 11·6         | 9·4                      | 35                                              |
|      | 17                                         | 139            | 135     | 173      | 9·4          | 12·3                     | 43                                              |      | 13                                         | 107            | 100     | 125      | 12·1         | 10·0                     | 36                                              |
|      | 18                                         | 154            | 150     | 191      | 9·6          | 13·0                     | 43                                              |      | 14                                         | 122            | 116     | 144      | 12·4         | 10·7                     | 37                                              |
|      | 19                                         | 170            | 166     | 213      | 9·8          | 13·7                     | 44                                              |      | 15                                         | 139            | 133     | 164      | 12·6         | 11·3                     | 38                                              |
|      | 20                                         | 186            | 182     | 234      | 9·9          | 14·2                     | 44                                              |      | 16                                         | 156            | 151     | 184      | 12·8         | 11·9                     | 39                                              |
| 21   | 203                                        | 199            | 255     | 10·0     | 14·8         | 45                       | 17                                              |      | 174                                        | 169            | 206     | 12·9     | 12·5         | 39                       |                                                 |
| 22   | 221                                        | 217            | 284     | 10·0     | 15·4         | 45                       | 18                                              |      | 193                                        | 188            | 229     | 13·0     | 13·0         | 40                       |                                                 |
| 23   | 238                                        | 234            | 304     | 10·1     | 16·0         | 46                       | 19                                              |      | 213                                        | 209            | 254     | 13·0     | 13·6         | 40                       |                                                 |
| 24   | 257                                        | 254            | 327     | 10·1     | 16·7         | 46                       | 20                                              |      | 233                                        | 229            | 284     | 13·1     | 14·3         | 40                       |                                                 |
| 14   | 9                                          | 0·047          | 0·037   | 0·057    | 6·4          | 7·7                      | 35                                              |      | 21                                         | 255            | 251     | 311      | 13·1         | 15·0                     | 40                                              |
|      | 10                                         | 057            | 049     | 068      | 7·5          | 8·4                      | 36                                              |      | 22                                         | 282            | 278     | 340      | 13·1         | 15·7                     | 41                                              |
|      | 11                                         | 068            | 061     | 082      | 8·3          | 9·0                      | 37                                              |      | 23                                         | 296            | 292     | 364      | 13·2         | 16·3                     | 41                                              |
|      | 12                                         | 080            | 073     | 096      | 8·9          | 9·5                      | 38                                              | 24   | 323                                        | 319            | 390     | 13·2     | 16·9         | 41                       |                                                 |
|      | 13                                         | 093            | 087     | 112      | 9·3          | 10·5                     | 39                                              | 25   | 347                                        | 344            | 420     | 13·2     | 17·5         | 41                       |                                                 |
|      | 14                                         | 106            | 101     | 128      | 9·8          | 10·7                     | 40                                              | 26   | 371                                        | 368            | 449     | 13·2     | 18·1         | 42                       |                                                 |
|      | 15                                         | 120            | 115     | 146      | 10·3         | 11·3                     | 40                                              | 27   | 396                                        | 393            | 482     | 13·2     | 18·6         | 42                       |                                                 |
|      | 16                                         | 135            | 130     | 167      | 10·6         | 11·8                     | 41                                              | 28   | 423                                        | 420            | 515     | 13·3     | 19·1         | 42                       |                                                 |
|      | 17                                         | 150            | 145     | 184      | 10·8         | 12·4                     | 41                                              | 29   | 451                                        | 447            | 550     | 13·3     | 19·6         | 42                       |                                                 |
|      | 18                                         | 165            | 160     | 206      | 10·9         | 12·9                     | 42                                              | 30   | 477                                        | 474            | 585     | 13·3     | 20·1         | 42                       |                                                 |
|      | 19                                         | 184            | 179     | 226      | 11·0         | 13·6                     | 42                                              | 31   | 508                                        | 505            | 623     | 13·3     | 20·6         | 42                       |                                                 |
|      | 20                                         | 201            | 196     | 247      | 11·0         | 14·2                     | 43                                              | 17   | 12                                         | 0·098          | 0·090   | 0·114    | 13·0         | 9·3                      | 34                                              |
|      | 21                                         | 220            | 215     | 271      | 11·1         | 14·9                     | 43                                              |      | 13                                         | 114            | 107     | 132      | 13·4         | 9·9                      | 35                                              |
| 22   | 243                                        | 238            | 300     | 11·1     | 15·6         | 44                       | 14                                              |      | 131                                        | 125            | 152     | 13·7     | 10·6         | 36                       |                                                 |
| 23   | 258                                        | 254            | 321     | 11·1     | 16·2         | 44                       | 15                                              |      | 148                                        | 142            | 173     | 13·9     | 11·2         | 37                       |                                                 |
| 24   | 279                                        | 276            | 347     | 11·2     | 16·7         | 45                       | 16                                              |      | 167                                        | 162            | 195     | 14·0     | 11·9         | 38                       |                                                 |
| 25   | 300                                        | 297            | 374     | 11·2     | 17·3         | 45                       | 17                                              |      | 186                                        | 181            | 217     | 14·1     | 12·5         | 39                       |                                                 |
| 26   | 321                                        | 318            | 402     | 11·2     | 17·9         | 45                       | 18                                              |      | 206                                        | 201            | 241     | 14·1     | 13·1         | 39                       |                                                 |
| 15   | 10                                         | 0·061          | 0·052   | 0·073    | 8·2          | 8·3                      | 35                                              |      | 19                                         | 228            | 224     | 267      | 14·1         | 13·8                     | 40                                              |
|      | 11                                         | 073            | 065     | 086      | 9·2          | 8·9                      | 36                                              |      | 20                                         | 249            | 245     | 293      | 14·2         | 14·4                     | 40                                              |
|      | 12                                         | 086            | 079     | 102      | 10·0         | 9·5                      | 37                                              |      | 21                                         | 273            | 269     | 322      | 14·2         | 15·1                     | 40                                              |
|      | 13                                         | 100            | 094     | 119      | 10·4         | 10·1                     | 38                                              |      | 22                                         | 301            | 297     | 356      | 14·2         | 15·8                     | 41                                              |
|      | 14                                         | 114            | 108     | 137      | 11·0         | 10·7                     | 39                                              |      | 23                                         | 321            | 317     | 379      | 14·2         | 16·4                     | 41                                              |
|      | 15                                         | 130            | 125     | 158      | 11·5         | 11·3                     | 40                                              |      | 24                                         | 345            | 341     | 410      | 14·2         | 17·0                     | 41                                              |
|      | 16                                         | 145            | 140     | 175      | 11·7         | 11·9                     | 40                                              | 25   | 371                                        | 367            | 442     | 14·2     | 17·5         | 41                       |                                                 |
|      | 17                                         | 162            | 157     | 196      | 11·9         | 12·4                     | 40                                              | 26   | 397                                        | 394            | 473     | 14·3     | 18·1         | 42                       |                                                 |
|      | 18                                         | 179            | 175     | 217      | 12·0         | 12·9                     | 41                                              | 27   | 424                                        | 421            | 506     | 14·3     | 18·6         | 42                       |                                                 |
|      | 19                                         | 198            | 194     | 240      | 12·0         | 13·6                     | 41                                              | 28   | 453                                        | 450            | 542     | 14·3     | 19·2         | 42                       |                                                 |
|      | 20                                         | 217            | 213     | 260      | 12·1         | 14·4                     | 41                                              | 29   | 480                                        | 477            | 575     | 14·3     | 19·7         | 42                       |                                                 |
|      | 21                                         | 237            | 233     | 289      | 12·1         | 15·0                     | 42                                              | 30   | 504                                        | 501            | 613     | 14·3     | 20·2         | 42                       |                                                 |
|      | 22                                         | 262            | 258     | 320      | 12·1         | 15·7                     | 42                                              | 31   | 541                                        | 538            | 650     | 14·3     | 20·7         | 42                       |                                                 |
| 23   | 278                                        | 274            | 342     | 12·2     | 16·3         | 42                       | 32                                              | 575  | 572                                        | 692            | 14·3    | 21·3     | 42           |                          |                                                 |

| Höhe | Durchmesser bei<br>1-3 m über dem<br>Boden | I n h a l t    |          |          | Derbholzlänge | Derbholzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1-3 m über dem<br>Boden | I n h a l t    |          |          | Derbholzlänge | Derbholzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |
|------|--------------------------------------------|----------------|----------|----------|---------------|---------------------------|-------------------------------------------------|------|--------------------------------------------|----------------|----------|----------|---------------|---------------------------|-------------------------------------------------|
|      |                                            | Schaftholz     | Derbholz | Baumholz |               |                           |                                                 |      |                                            | Schaftholz     | Derbholz | Baumholz |               |                           |                                                 |
|      |                                            | m <sup>3</sup> |          |          |               |                           |                                                 |      |                                            |                |          |          |               |                           |                                                 |
| m    | cm                                         | m <sup>3</sup> |          |          | m             | cm                        |                                                 | m    | cm                                         | m <sup>3</sup> |          |          | m             | cm                        |                                                 |
| 18   | 13                                         | 0-121          | 0-114    | 0-141    | 14-6          | 9-9                       | 34                                              | 20   | 15                                         | 0-179          | 0-172    | 0-202    | 16-8          | 11-2                      | 34                                              |
|      | 14                                         | 139            | 132      | 161      | 14-8          | 10-6                      | 35                                              |      | 16                                         | 200            | 194      | 228      | 16-9          | 11-9                      | 34                                              |
|      | 15                                         | 159            | 153      | 184      | 14-9          | 11-2                      | 36                                              |      | 17                                         | 224            | 218      | 255      | 17-0          | 12-6                      | 35                                              |
|      | 16                                         | 178            | 172      | 207      | 15-0          | 11-9                      | 36                                              |      | 18                                         | 248            | 243      | 283      | 17-0          | 13-2                      | 35                                              |
|      | 17                                         | 199            | 194      | 232      | 15-1          | 12-5                      | 37                                              |      | 19                                         | 275            | 270      | 315      | 17-1          | 13-9                      | 36                                              |
|      | 18                                         | 220            | 215      | 257      | 15-1          | 13-0                      | 37                                              |      | 20                                         | 301            | 296      | 345      | 17-1          | 14-5                      | 36                                              |
|      | 19                                         | 244            | 239      | 285      | 15-2          | 13-7                      | 38                                              |      | 21                                         | 329            | 324      | 378      | 17-2          | 15-2                      | 37                                              |
|      | 20                                         | 267            | 262      | 312      | 15-2          | 14-3                      | 38                                              |      | 22                                         | 363            | 359      | 418      | 17-2          | 15-8                      | 37                                              |
|      | 21                                         | 291            | 287      | 342      | 15-3          | 15-1                      | 39                                              |      | 23                                         | 387            | 383      | 447      | 17-3          | 16-4                      | 38                                              |
|      | 22                                         | 322            | 318      | 379      | 15-3          | 15-8                      | 39                                              |      | 24                                         | 418            | 414      | 483      | 17-3          | 17-1                      | 38                                              |
|      | 23                                         | 343            | 339      | 405      | 15-3          | 16-4                      | 40                                              |      | 25                                         | 455            | 440      | 521      | 17-4          | 17-7                      | 38                                              |
|      | 24                                         | 369            | 365      | 437      | 15-4          | 17-0                      | 40                                              |      | 26                                         | 480            | 476      | 557      | 17-4          | 18-3                      | 39                                              |
|      | 25                                         | 398            | 394      | 472      | 15-4          | 17-5                      | 41                                              |      | 27                                         | 516            | 512      | 601      | 17-5          | 18-9                      | 39                                              |
|      | 26                                         | 425            | 421      | 506      | 15-4          | 18-1                      | 41                                              |      | 28                                         | 547            | 543      | 638      | 17-5          | 19-4                      | 39                                              |
|      | 27                                         | 453            | 450      | 540      | 15-4          | 18-7                      | 42                                              |      | 29                                         | 582            | 578      | 681      | 17-6          | 19-9                      | 40                                              |
|      | 28                                         | 484            | 481      | 580      | 15-5          | 19-3                      | 42                                              |      | 30                                         | 618            | 615      | 724      | 17-6          | 20-4                      | 40                                              |
|      | 29                                         | 514            | 511      | 615      | 15-5          | 19-8                      | 43                                              |      | 31                                         | 654            | 651      | 769      | 17-6          | 20-9                      | 40                                              |
|      | 30                                         | 545            | 542      | 653      | 15-5          | 20-3                      | 43                                              |      | 32                                         | 691            | 688      | 813      | 17-7          | 21-5                      | 41                                              |
|      | 31                                         | 579            | 576      | 695      | 15-5          | 20-8                      | 44                                              |      | 33                                         | 727            | 724      | 857      | 17-7          | 22-1                      | 41                                              |
|      | 32                                         | 612            | 609      | 736      | 15-5          | 21-4                      | 44                                              |      | 34                                         | 764            | 761      | 903      | 17-7          | 22-7                      | 41                                              |
|      | 33                                         | 645            | 642      | 778      | 15-6          | 22-0                      | 44                                              |      | 35                                         | 800            | 797      | 948      | 17-8          | 23-2                      | 42                                              |
|      | 34                                         | 676            | 673      | 818      | 15-6          | 22-5                      | 45                                              |      | 36                                         | 843            | 840      | 1-00     | 17-8          | 23-7                      | 42                                              |
|      | 35                                         | 709            | 706      | 859      | 15-6          | 23-0                      | 45                                              |      | 37                                         | 877            | 874      | 1-04     | 17-8          | 24-3                      | 42                                              |
|      | 36                                         | 745            | 742      | 905      | 15-6          | 23-5                      | 45                                              |      | 38                                         | 922            | 919      | 1-10     | 17-8          | 24-9                      | 43                                              |
| 19   | 14                                         | 0-148          | 0-141    | 0-169    | 15-8          | 10-6                      | 34                                              | 21   | 16                                         | 0-211          | 0-205    | 0-238    | 17-8          | 11-9                      | 33                                              |
|      | 15                                         | 168            | 161      | 192      | 16-0          | 11-2                      | 35                                              |      | 17                                         | 236            | 230      | 267      | 17-9          | 12-6                      | 33                                              |
|      | 16                                         | 190            | 184      | 217      | 16-1          | 11-9                      | 36                                              |      | 18                                         | 261            | 255      | 296      | 18-0          | 13-3                      | 34                                              |
|      | 17                                         | 211            | 205      | 243      | 16-2          | 12-5                      | 36                                              |      | 19                                         | 290            | 284      | 329      | 18-0          | 13-9                      | 34                                              |
|      | 18                                         | 234            | 229      | 270      | 16-3          | 13-1                      | 37                                              |      | 20                                         | 317            | 312      | 361      | 18-1          | 14-6                      | 35                                              |
|      | 19                                         | 259            | 254      | 299      | 16-3          | 13-8                      | 37                                              |      | 21                                         | 347            | 342      | 395      | 18-1          | 15-2                      | 35                                              |
|      | 20                                         | 284            | 279      | 328      | 16-3          | 14-4                      | 38                                              |      | 22                                         | 384            | 379      | 439      | 18-2          | 15-8                      | 36                                              |
|      | 21                                         | 312            | 307      | 358      | 16-4          | 15-1                      | 38                                              |      | 23                                         | 409            | 405      | 468      | 18-2          | 16-4                      | 36                                              |
|      | 22                                         | 341            | 337      | 397      | 16-4          | 15-8                      | 39                                              |      | 24                                         | 441            | 437      | 507      | 18-3          | 17-1                      | 37                                              |
|      | 23                                         | 364            | 360      | 424      | 16-4          | 16-4                      | 39                                              |      | 25                                         | 475            | 471      | 546      | 18-3          | 17-7                      | 37                                              |
|      | 24                                         | 393            | 389      | 460      | 16-4          | 17-0                      | 40                                              |      | 26                                         | 509            | 505      | 586      | 18-4          | 18-3                      | 38                                              |
|      | 25                                         | 423            | 419      | 494      | 16-5          | 17-6                      | 40                                              |      | 27                                         | 544            | 540      | 628      | 18-4          | 18-8                      | 38                                              |
|      | 26                                         | 449            | 445      | 527      | 16-5          | 18-1                      | 41                                              |      | 28                                         | 579            | 575      | 669      | 18-5          | 19-3                      | 38                                              |
|      | 27                                         | 485            | 481      | 570      | 16-5          | 18-7                      | 41                                              |      | 29                                         | 616            | 613      | 714      | 18-5          | 19-8                      | 39                                              |
|      | 28                                         | 518            | 514      | 610      | 16-5          | 19-2                      | 42                                              |      | 30                                         | 653            | 650      | 758      | 18-6          | 20-4                      | 39                                              |
|      | 29                                         | 551            | 548      | 650      | 16-5          | 19-7                      | 42                                              |      | 31                                         | 693            | 690      | 805      | 18-6          | 21-0                      | 39                                              |
|      | 30                                         | 583            | 579      | 690      | 16-6          | 20-3                      | 43                                              |      | 32                                         | 732            | 729      | 852      | 18-6          | 21-6                      | 40                                              |
|      | 31                                         | 619            | 616      | 734      | 16-6          | 20-8                      | 43                                              |      | 33                                         | 770            | 767      | 900      | 18-7          | 22-1                      | 40                                              |
|      | 32                                         | 653            | 650      | 777      | 16-6          | 21-4                      | 44                                              |      | 34                                         | 814            | 811      | 951      | 18-7          | 22-6                      | 40                                              |
|      | 33                                         | 688            | 685      | 819      | 16-6          | 22-0                      | 44                                              |      | 35                                         | 854            | 851      | 1-00     | 18-7          | 23-2                      | 41                                              |
|      | 34                                         | 723            | 720      | 864      | 16-7          | 22-5                      | 44                                              |      | 36                                         | 898            | 895      | 1-05     | 18-8          | 23-8                      | 41                                              |
|      | 35                                         | 759            | 756      | 910      | 16-7          | 23-0                      | 44                                              |      | 37                                         | 938            | 935      | 1-10     | 18-8          | 24-3                      | 41                                              |
|      | 36                                         | 795            | 792      | 956      | 16-7          | 23-6                      | 44                                              |      | 38                                         | 981            | 978      | 1-15     | 18-8          | 24-9                      | 42                                              |
|      | 37                                         | 824            | 821      | 993      | 16-7          | 24-1                      | 44                                              |      | 39                                         | 1-03           | 1-03     | 1-21     | 18-8          | 25-5                      | 42                                              |
| 38   | 864                                        | 861            | 1-05     | 16-7     | 24-6          | 44                        | 40                                              | 1-08 | 1-08                                       | 1-27           | 18-8     | 26-0     | 42            |                           |                                                 |

| Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t    |                |                | Derbholzlänge | Derbholzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t    |                |                | Derbholzlänge | Derbholzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |
|------|--------------------------------------------|----------------|----------------|----------------|---------------|---------------------------|-------------------------------------------------|------|--------------------------------------------|----------------|----------------|----------------|---------------|---------------------------|-------------------------------------------------|
|      |                                            | Schaftholz     | Derbholz       | Baumholz       |               |                           |                                                 |      |                                            | Schaftholz     | Derbholz       | Baumholz       |               |                           |                                                 |
|      |                                            | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> |               |                           |                                                 |      |                                            | m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup> |               |                           |                                                 |
| 21   | 41                                         | 1·12           | 1·12           | 1·32           | 18·9          | 26·7                      | 43                                              |      | 31                                         | 0·774          | 771            | 0·884          | 20·5          | 21·1                      | 38                                              |
|      | 42                                         | 1·17           | 1·17           | 1·38           | 18·9          | 27·3                      | 43                                              |      | 32                                         | 818            | 815            | 934            | 20·5          | 21·8                      | 38                                              |
|      | 43                                         | 1·21           | 1·21           | 1·43           | 18·9          | 28·0                      | 43                                              |      | 33                                         | 860            | 857            | 984            | 20·5          | 22·4                      | 38                                              |
|      | 44                                         | 1·26           | 1·26           | 1·49           | 18·9          | 28·5                      | 43                                              |      | 34                                         | 905            | 902            | 1·04           | 20·6          | 22·9                      | 39                                              |
| 22   | 16                                         | 0·223          | 0·216          | 0·250          | 18·8          | 12·0                      | 32                                              | 23   | 35                                         | 950            | 947            | 1·09           | 20·6          | 23·5                      | 39                                              |
|      | 17                                         | 249            | 242            | 280            | 18·9          | 12·6                      | 32                                              |      | 36                                         | 1·00           | 997            | 1·15           | 20·6          | 24·0                      | 39                                              |
|      | 18                                         | 277            | 271            | 311            | 19·0          | 13·2                      | 33                                              |      | 37                                         | 1·04           | 1·04           | 1·20           | 20·7          | 24·6                      | 40                                              |
|      | 19                                         | 306            | 300            | 345            | 19·0          | 13·9                      | 33                                              |      | 38                                         | 1·09           | 1·09           | 1·26           | 20·7          | 25·2                      | 40                                              |
|      | 20                                         | 336            | 331            | 379            | 19·0          | 14·6                      | 34                                              |      | 39                                         | 1·14           | 1·14           | 1·33           | 20·7          | 25·7                      | 40                                              |
|      | 21                                         | 367            | 362            | 415            | 19·1          | 15·2                      | 34                                              |      | 40                                         | 1·19           | 1·19           | 1·39           | 20·8          | 26·3                      | 41                                              |
|      | 22                                         | 406            | 401            | 459            | 19·1          | 15·9                      | 35                                              |      | 41                                         | 1·24           | 1·24           | 1·45           | 20·8          | 27·0                      | 41                                              |
|      | 23                                         | 433            | 428            | 491            | 19·2          | 16·6                      | 35                                              |      | 42                                         | 1·29           | 1·29           | 1·51           | 20·8          | 27·6                      | 41                                              |
|      | 24                                         | 465            | 461            | 529            | 19·2          | 17·2                      | 36                                              |      | 43                                         | 1·34           | 1·34           | 1·57           | 20·9          | 28·2                      | 42                                              |
|      | 25                                         | 501            | 497            | 571            | 19·2          | 17·8                      | 36                                              |      | 44                                         | 1·39           | 1·39           | 1·63           | 20·9          | 28·8                      | 42                                              |
|      | 26                                         | 539            | 535            | 615            | 19·3          | 18·4                      | 36                                              |      | 45                                         | 1·44           | 1·44           | 1·70           | 20·9          | 29·3                      | 42                                              |
|      | 27                                         | 576            | 572            | 659            | 19·3          | 19·0                      | 37                                              |      | 46                                         | 1·49           | 1·49           | 1·77           | 21·0          | 29·9                      | 42                                              |
|      | 28                                         | 611            | 607            | 700            | 19·4          | 19·5                      | 37                                              |      | 47                                         | 1·55           | 1·55           | 1·84           | 21·0          | 30·4                      | 42                                              |
|      | 29                                         | 651            | 647            | 748            | 19·4          | 20·1                      | 37                                              | 24   | 18                                         | 0·308          | 0·301          | 0·336          | 20·9          | 13·3                      | 31                                              |
|      | 30                                         | 693            | 690            | 797            | 19·5          | 20·7                      | 38                                              |      | 19                                         | 339            | 336            | 377            | 20·9          | 14·0                      | 31                                              |
|      | 31                                         | 733            | 730            | 847            | 19·5          | 21·2                      | 38                                              |      | 20                                         | 372            | 367            | 414            | 21·0          | 14·7                      | 32                                              |
|      | 32                                         | 775            | 772            | 896            | 19·6          | 21·7                      | 39                                              |      | 21                                         | 406            | 401            | 453            | 21·0          | 15·4                      | 32                                              |
|      | 33                                         | 816            | 813            | 946            | 19·6          | 22·3                      | 39                                              |      | 22                                         | 449            | 444            | 500            | 21·0          | 16·0                      | 33                                              |
|      | 34                                         | 860            | 857            | 998            | 19·6          | 22·8                      | 39                                              |      | 23                                         | 479            | 474            | 532            | 21·1          | 16·7                      | 33                                              |
|      | 35                                         | 926            | 923            | 1·05           | 19·7          | 23·4                      | 40                                              |      | 24                                         | 518            | 513            | 578            | 21·1          | 17·3                      | 34                                              |
|      | 36                                         | 974            | 971            | 1·11           | 19·7          | 24·0                      | 40                                              |      | 25                                         | 552            | 547            | 621            | 21·1          | 17·9                      | 34                                              |
|      | 37                                         | 1·01           | 998            | 1·16           | 19·7          | 24·5                      | 41                                              |      | 26                                         | 594            | 590            | 669            | 21·2          | 18·6                      | 35                                              |
|      | 38                                         | 1·06           | 1·06           | 1·21           | 19·8          | 25·0                      | 41                                              |      | 27                                         | 636            | 632            | 719            | 21·2          | 19·1                      | 35                                              |
|      | 39                                         | 1·11           | 1·11           | 1·27           | 19·8          | 25·6                      | 41                                              |      | 28                                         | 681            | 677            | 769            | 21·2          | 19·7                      | 36                                              |
|      | 40                                         | 1·16           | 1·16           | 1·33           | 19·8          | 26·2                      | 42                                              |      | 29                                         | 725            | 721            | 822            | 21·3          | 20·3                      | 36                                              |
|      | 41                                         | 1·20           | 1·20           | 1·39           | 19·9          | 26·8                      | 42                                              |      | 30                                         | 768            | 764            | 872            | 21·3          | 20·8                      | 36                                              |
|      | 42                                         | 1·25           | 1·25           | 1·44           | 19·9          | 27·4                      | 42                                              |      | 31                                         | 811            | 807            | 923            | 21·3          | 21·4                      | 37                                              |
|      | 43                                         | 1·30           | 1·30           | 1·50           | 19·9          | 28·0                      | 43                                              |      | 32                                         | 857            | 853            | 977            | 21·4          | 22·0                      | 37                                              |
|      | 44                                         | 1·35           | 1·35           | 1·57           | 19·9          | 28·6                      | 43                                              |      | 33                                         | 902            | 899            | 1·03           | 21·4          | 22·5                      | 37                                              |
|      | 45                                         | 1·40           | 1·40           | 1·63           | 20·0          | 29·2                      | 43                                              |      | 34                                         | 953            | 950            | 1·09           | 21·4          | 23·0                      | 38                                              |
|      | 46                                         | 1·45           | 1·45           | 1·69           | 20·0          | 29·7                      | 43                                              |      | 35                                         | 1·00           | 997            | 1·15           | 21·5          | 23·6                      | 38                                              |
| 23   | 17                                         | 0·263          | 0·257          | 0·293          | 19·8          | 12·7                      | 32                                              |      | 36                                         | 1·05           | 1·05           | 1·21           | 21·5          | 24·2                      | 38                                              |
|      | 18                                         | 292            | 286            | 325            | 19·9          | 13·3                      | 32                                              |      | 37                                         | 1·10           | 1·10           | 1·26           | 21·5          | 24·7                      | 39                                              |
|      | 19                                         | 323            | 317            | 361            | 19·9          | 14·0                      | 33                                              |      | 38                                         | 1·15           | 1·15           | 1·32           | 21·6          | 25·2                      | 39                                              |
|      | 20                                         | 354            | 349            | 396            | 20·0          | 14·7                      | 33                                              |      | 39                                         | 1·20           | 1·20           | 1·39           | 21·6          | 25·8                      | 39                                              |
|      | 21                                         | 387            | 382            | 433            | 20·0          | 15·3                      | 34                                              |      | 40                                         | 1·26           | 1·26           | 1·46           | 21·6          | 26·4                      | 40                                              |
|      | 22                                         | 428            | 423            | 480            | 20·1          | 15·9                      | 34                                              |      | 41                                         | 1·31           | 1·31           | 1·52           | 21·7          | 27·0                      | 40                                              |
|      | 23                                         | 456            | 451            | 512            | 20·1          | 16·6                      | 35                                              |      | 42                                         | 1·36           | 1·36           | 1·58           | 21·7          | 27·6                      | 40                                              |
|      | 24                                         | 493            | 489            | 555            | 20·2          | 17·3                      | 35                                              |      | 43                                         | 1·41           | 1·41           | 1·65           | 21·7          | 28·4                      | 41                                              |
|      | 25                                         | 530            | 526            | 598            | 20·2          | 17·9                      | 36                                              |      | 44                                         | 1·47           | 1·47           | 1·72           | 21·8          | 28·9                      | 41                                              |
|      | 26                                         | 566            | 562            | 640            | 20·3          | 18·5                      | 36                                              |      | 45                                         | 1·52           | 1·52           | 1·78           | 21·8          | 29·5                      | 41                                              |
|      | 27                                         | 607            | 603            | 688            | 20·3          | 19·1                      | 36                                              |      | 46                                         | 1·57           | 1·57           | 1·84           | 21·8          | 30·0                      | 41                                              |
|      | 28                                         | 648            | 644            | 734            | 20·4          | 19·6                      | 37                                              |      | 47                                         | 1·64           | 1·64           | 1·91           | 21·9          | 30·5                      | 42                                              |
|      | 29                                         | 687            | 683            | 781            | 20·4          | 20·1                      | 37                                              |      | 48                                         | 1·69           | 1·69           | 1·99           | 21·9          | 30·9                      | 42                                              |
|      | 30                                         | 729            | 726            | 830            | 20·4          | 20·6                      | 37                                              |      | 49                                         | 1·75           | 1·75           | 2·06           | 21·9          | 31·4                      | 42                                              |

| Höhe | Durchmesser bei<br>1,3 m über dem<br>Boden | I n h a l t |          |          | Derbholzlänge | Derbholzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1,3 m über dem<br>Boden | I n h a l t |          |          | Derbholzlänge | Derbholzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |
|------|--------------------------------------------|-------------|----------|----------|---------------|--------------------------------|-------------------------------------------------|------|--------------------------------------------|-------------|----------|----------|---------------|--------------------------------|-------------------------------------------------|
|      |                                            | Schaftholz  | Derbholz | Baumholz |               |                                |                                                 |      |                                            | Schaftholz  | Derbholz | Baumholz |               |                                |                                                 |
|      |                                            |             |          |          |               |                                |                                                 |      |                                            |             |          |          |               |                                |                                                 |
| 25   | 18                                         | 0.322       | 0.315    | 0.355    | 21.9          | 13.2                           | 31                                              | 27   | 32                                         | 0.996       | 0.992    | 1.11     | 24.2          | 22.2                           | 33                                              |
|      | 20                                         | 389         | 382      | 430      | 22.0          | 14.8                           | 31                                              |      | 34                                         | 1.11        | 1.11     | 1.24     | 24.3          | 23.3                           | 34                                              |
|      | 22                                         | 469         | 463      | 521      | 22.1          | 16.0                           | 32                                              |      | 36                                         | 1.22        | 1.22     | 1.37     | 24.3          | 24.5                           | 34                                              |
|      | 24                                         | 540         | 534      | 601      | 22.2          | 17.3                           | 32                                              |      | 38                                         | 1.33        | 1.33     | 1.50     | 24.4          | 25.7                           | 35                                              |
|      | 26                                         | 625         | 621      | 698      | 22.2          | 18.5                           | 33                                              |      | 40                                         | 1.46        | 1.46     | 1.65     | 24.4          | 26.8                           | 36                                              |
|      | 28                                         | 711         | 767      | 798      | 22.3          | 19.7                           | 33                                              |      | 42                                         | 1.58        | 1.58     | 1.79     | 24.5          | 28.0                           | 36                                              |
|      | 30                                         | 804         | 800      | 903      | 22.3          | 20.8                           | 34                                              |      | 44                                         | 1.71        | 1.71     | 1.94     | 24.6          | 29.2                           | 37                                              |
|      | 32                                         | 896         | 892      | 1.01     | 22.4          | 21.9                           | 35                                              |      | 46                                         | 1.83        | 1.83     | 2.09     | 24.6          | 30.4                           | 37                                              |
|      | 34                                         | 989         | 986      | 1.12     | 22.5          | 23.0                           | 35                                              |      | 48                                         | 1.97        | 1.97     | 2.26     | 24.7          | 31.5                           | 38                                              |
|      | 36                                         | 1.09        | 1.09     | 1.24     | 22.5          | 24.2                           | 36                                              |      | 50                                         | 2.09        | 2.09     | 2.40     | 24.8          | 32.6                           | 38                                              |
|      | 38                                         | 1.18        | 1.18     | 1.35     | 22.6          | 25.3                           | 37                                              |      | 52                                         | 2.23        | 2.23     | 2.57     | 24.8          | 33.6                           | 39                                              |
|      | 40                                         | 1.30        | 1.30     | 1.49     | 22.7          | 26.5                           | 37                                              |      | 54                                         | 2.38        | 2.38     | 2.74     | 24.9          | 34.6                           | 39                                              |
|      | 42                                         | 1.40        | 1.40     | 1.61     | 22.7          | 27.7                           | 38                                              |      | 56                                         | 2.52        | 2.52     | 2.92     | 24.9          | 35.7                           | 40                                              |
|      | 44                                         | 1.52        | 1.52     | 1.75     | 22.8          | 28.9                           | 38                                              |      | 58                                         | 2.67        | 2.67     | 3.10     | 25.0          | 36.7                           | 40                                              |
|      | 46                                         | 1.64        | 1.74     | 1.89     | 22.8          | 30.0                           | 39                                              |      | 60                                         | 2.83        | 2.83     | 3.29     | 25.0          | 37.8                           | 41                                              |
| 26   | 48                                         | 1.76        | 1.76     | 2.04     | 22.9          | 31.0                           | 40                                              | 62   | 2.97                                       | 2.97        | 3.47     | 25.1     | 38.8          | 41                             |                                                 |
|      | 50                                         | 1.89        | 1.89     | 2.20     | 22.9          | 32.0                           | 40                                              | 28   | 20                                         | 0.448       | 0.442    | 0.489    | 24.9          | 15.0                           | 29                                              |
|      | 52                                         | 2.01        | 2.01     | 2.35     | 23.0          | 33.2                           | 41                                              |      | 22                                         | 541         | 535      | 592      | 25.0          | 16.3                           | 29                                              |
|      | 54                                         | 2.14        | 2.14     | 2.51     | 23.0          | 34.3                           | 41                                              |      | 24                                         | 626         | 621      | 687      | 25.1          | 17.5                           | 30                                              |
|      | 56                                         | 2.28        | 2.28     | 2.67     | 23.0          | 35.3                           | 42                                              |      | 26                                         | 722         | 717      | 796      | 25.2          | 18.7                           | 30                                              |
|      | 18                                         | 0.337       | 0.330    | 0.370    | 22.8          | 13.3                           | 30                                              |      | 28                                         | 820         | 816      | 905      | 25.3          | 19.9                           | 31                                              |
|      | 20                                         | 409         | 403      | 450      | 22.9          | 14.8                           | 30                                              |      | 30                                         | 931         | 927      | 1.03     | 25.4          | 21.0                           | 32                                              |
|      | 22                                         | 492         | 486      | 544      | 23.0          | 16.1                           | 31                                              |      | 32                                         | 1.04        | 1.04     | 1.16     | 25.5          | 22.2                           | 32                                              |
|      | 24                                         | 571         | 565      | 632      | 23.0          | 17.4                           | 31                                              |      | 34                                         | 1.16        | 1.16     | 1.29     | 25.6          | 23.4                           | 33                                              |
|      | 26                                         | 658         | 583      | 731      | 23.1          | 18.6                           | 32                                              |      | 36                                         | 1.28        | 1.28     | 1.43     | 25.7          | 24.5                           | 33                                              |
|      | 28                                         | 752         | 748      | 845      | 23.1          | 19.7                           | 33                                              |      | 38                                         | 1.40        | 1.40     | 1.56     | 25.7          | 25.7                           | 34                                              |
|      | 30                                         | 850         | 846      | 949      | 23.2          | 20.8                           | 33                                              |      | 40                                         | 1.53        | 1.53     | 1.71     | 25.8          | 26.9                           | 35                                              |
|      | 32                                         | 949         | 945      | 1.06     | 23.2          | 22.0                           | 34                                              |      | 42                                         | 1.66        | 1.66     | 1.87     | 25.8          | 28.1                           | 35                                              |
|      | 34                                         | 1.05        | 1.05     | 1.19     | 23.3          | 23.2                           | 35                                              |      | 44                                         | 1.79        | 1.79     | 2.03     | 25.9          | 29.3                           | 36                                              |
|      | 36                                         | 1.17        | 1.17     | 1.31     | 23.3          | 24.4                           | 35                                              |      | 46                                         | 1.92        | 1.92     | 2.18     | 25.9          | 30.4                           | 37                                              |
| 27   | 38                                         | 1.27        | 1.27     | 1.44     | 23.4          | 25.6                           | 36                                              |      | 48                                         | 2.06        | 2.06     | 2.35     | 26.0          | 31.4                           | 37                                              |
|      | 40                                         | 1.39        | 1.39     | 1.58     | 23.4          | 26.7                           | 37                                              | 50   | 2.20                                       | 2.20        | 2.51     | 26.0     | 32.5          | 38                             |                                                 |
|      | 42                                         | 1.51        | 1.51     | 1.72     | 23.5          | 27.8                           | 37                                              | 52   | 2.34                                       | 2.34        | 2.68     | 26.0     | 33.6          | 38                             |                                                 |
|      | 44                                         | 1.63        | 1.63     | 1.87     | 23.5          | 30.0                           | 38                                              | 54   | 2.49                                       | 2.49        | 2.85     | 26.0     | 34.7          | 39                             |                                                 |
|      | 46                                         | 1.76        | 1.76     | 2.02     | 23.6          | 30.2                           | 38                                              | 56   | 2.64                                       | 2.64        | 3.04     | 26.0     | 35.8          | 39                             |                                                 |
|      | 48                                         | 1.89        | 1.89     | 2.18     | 23.6          | 31.2                           | 39                                              | 58   | 2.79                                       | 2.79        | 3.22     | 26.0     | 36.9          | 40                             |                                                 |
|      | 50                                         | 2.02        | 2.02     | 2.33     | 23.7          | 32.3                           | 40                                              | 60   | 2.96                                       | 2.97        | 3.43     | 26.0     | 37.9          | 40                             |                                                 |
|      | 52                                         | 2.15        | 2.15     | 2.48     | 23.7          | 33.4                           | 40                                              | 62   | 3.13                                       | 3.13        | 3.63     | 26.0     | 39.0          | 40                             |                                                 |
|      | 54                                         | 2.28        | 2.28     | 2.65     | 23.8          | 34.5                           | 41                                              | 64   | 3.29                                       | 3.29        | 3.83     | 26.0     | 40.1          | 41                             |                                                 |
|      | 56                                         | 2.42        | 2.42     | 2.82     | 23.8          | 35.4                           | 41                                              | 66   | 3.44                                       | 3.44        | 4.02     | 26.0     | 41.0          | 41                             |                                                 |
|      | 58                                         | 2.55        | 2.55     | 2.98     | 23.9          | 36.5                           | 42                                              | 29   | 20                                         | 0.467       | 0.460    | 0.507    | 26.0          | 15.0                           | 28                                              |
|      | 60                                         | 2.70        | 2.70     | 3.16     | 23.9          | 37.5                           | 42                                              |      | 22                                         | 566         | 560      | 617      | 26.1          | 16.3                           | 28                                              |
|      | 18                                         | 0.353       | 0.346    | 0.386    | 23.8          | 13.3                           | 30                                              |      | 24                                         | 650         | 645      | 710      | 26.2          | 17.6                           | 29                                              |
|      | 20                                         | 428         | 426      | 470      | 23.9          | 14.7                           | 30                                              | 26   | 751                                        | 746         | 824      | 26.3     | 18.8          | 29                             |                                                 |
|      | 22                                         | 516         | 510      | 568      | 24.0          | 16.1                           | 31                                              | 28   | 863                                        | 859         | 947      | 26.4     | 19.9          | 30                             |                                                 |
| 24   | 595                                        | 590         | 656      | 24.0     | 17.4          | 31                             | 30                                              | 972  | 968                                        | 1.07        | 26.5     | 21.1     | 30            |                                |                                                 |
| 26   | 686                                        | 681         | 759      | 24.1     | 18.6          | 32                             | 32                                              | 1.09 | 1.09                                       | 1.20        | 26.5     | 22.3     | 31            |                                |                                                 |
| 28   | 772                                        | 768         | 872      | 24.1     | 19.8          | 32                             | 34                                              | 1.21 | 1.21                                       | 1.34        | 26.6     | 23.5     | 32            |                                |                                                 |
| 30   | 890                                        | 886         | 989      | 24.2     | 21.0          | 33                             | 36                                              | 1.35 | 1.35                                       | 1.49        | 26.6     | 24.7     | 32            |                                |                                                 |

| Höhe | Durchmesser bei<br>1,3 m über dem<br>Boden | I n h a l t |          |          | Derbolzlänge | Derbolzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1,3 m über dem<br>Boden | I n h a l t |          |          | Derbolzlänge | Derbolzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |
|------|--------------------------------------------|-------------|----------|----------|--------------|-------------------------------|-------------------------------------------------|------|--------------------------------------------|-------------|----------|----------|--------------|-------------------------------|-------------------------------------------------|
|      |                                            | Schattholz  | Derbholz | Baumholz |              |                               |                                                 |      |                                            | Schattholz  | Derbholz | Baumholz |              |                               |                                                 |
| m    | cm                                         | m³          |          |          | m            | cm                            |                                                 | m    | cm                                         | m³          |          |          | m            | cm                            |                                                 |
| 29   | 38                                         | 1.46        | 1.46     | 1.63     | 26.7         | 25.9                          | 33                                              | 31   | 36                                         | 1.46        | 1.46     | 1.61     | 28.3         | 25.0                          | 31                                              |
|      | 40                                         | 1.61        | 1.61     | 1.79     | 26.8         | 27.0                          | 34                                              |      | 38                                         | 1.60        | 1.60     | 1.76     | 28.4         | 26.2                          | 31                                              |
|      | 42                                         | 1.74        | 1.74     | 1.94     | 26.8         | 28.2                          | 34                                              |      | 40                                         | 1.76        | 1.76     | 1.94     | 28.4         | 27.3                          | 32                                              |
|      | 44                                         | 1.88        | 1.88     | 2.11     | 26.9         | 29.4                          | 35                                              |      | 42                                         | 1.90        | 1.90     | 2.11     | 28.5         | 28.5                          | 33                                              |
|      | 46                                         | 2.02        | 2.02     | 2.27     | 26.9         | 30.5                          | 36                                              |      | 44                                         | 2.06        | 2.06     | 2.28     | 28.6         | 29.8                          | 33                                              |
|      | 48                                         | 2.16        | 2.16     | 2.44     | 27.0         | 31.6                          | 36                                              |      | 46                                         | 2.21        | 2.31     | 2.47     | 28.6         | 30.9                          | 34                                              |
|      | 50                                         | 2.30        | 2.30     | 2.61     | 27.0         | 32.7                          | 37                                              |      | 48                                         | 2.37        | 2.37     | 2.65     | 28.7         | 32.0                          | 35                                              |
|      | 52                                         | 2.45        | 2.45     | 2.79     | 27.0         | 33.8                          | 37                                              |      | 50                                         | 2.54        | 2.54     | 2.84     | 28.7         | 33.1                          | 35                                              |
|      | 54                                         | 2.60        | 2.60     | 2.97     | 27.0         | 34.9                          | 38                                              |      | 52                                         | 2.69        | 2.69     | 3.03     | 28.8         | 34.2                          | 36                                              |
|      | 56                                         | 2.75        | 2.75     | 3.15     | 27.0         | 36.0                          | 38                                              |      | 54                                         | 2.86        | 2.86     | 3.23     | 28.9         | 35.4                          | 37                                              |
|      | 58                                         | 2.93        | 2.93     | 3.35     | 27.1         | 37.1                          | 39                                              |      | 56                                         | 3.02        | 3.02     | 3.42     | 28.9         | 36.5                          | 37                                              |
|      | 60                                         | 3.09        | 3.09     | 3.56     | 27.1         | 38.2                          | 39                                              |      | 58                                         | 3.19        | 3.19     | 3.62     | 29.0         | 37.7                          | 38                                              |
|      | 62                                         | 3.26        | 3.26     | 3.76     | 27.1         | 39.3                          | 40                                              |      | 60                                         | 3.38        | 3.38     | 3.83     | 29.0         | 38.8                          | 38                                              |
| 30   | 64                                         | 3.43        | 3.43     | 3.97     | 27.1         | 40.4                          | 40                                              | 62   | 3.56                                       | 3.56        | 4.06     | 29.0     | 40.0         | 39                            |                                                 |
|      | 66                                         | 3.59        | 3.59     | 4.17     | 27.1         | 41.4                          | 41                                              | 64   | 3.74                                       | 3.74        | 4.28     | 29.1     | 41.0         | 39                            |                                                 |
|      | 68                                         | 3.76        | 3.76     | 4.38     | 27.1         | 42.3                          | 41                                              | 66   | 3.92                                       | 3.92        | 4.50     | 29.1     | 42.0         | 40                            |                                                 |
|      | 20                                         | 0.488       | 0.481    | 0.527    | 27.1         | 15.0                          | 28                                              | 68   | 4.12                                       | 4.12        | 4.75     | 29.1     | 42.9         | 40                            |                                                 |
|      | 22                                         | 592         | 586      | 641      | 27.2         | 16.4                          | 28                                              | 70   | 4.28                                       | 4.28        | 4.95     | 29.2     | 43.9         | 41                            |                                                 |
|      | 24                                         | 682         | 676      | 743      | 27.3         | 17.6                          | 29                                              | 72   | 4.47                                       | 4.47        | 5.18     | 29.2     | 44.8         | 41                            |                                                 |
|      | 26                                         | 784         | 779      | 855      | 27.3         | 18.8                          | 30                                              | 74   | 4.67                                       | 4.67        | 5.43     | 29.2     | 45.7         | 41                            |                                                 |
|      | 28                                         | 899         | 894      | 984      | 27.4         | 20.0                          | 30                                              | 32   | 22                                         | 0.644       | 0.637    | 0.691    | 29.2         | 16.6                          | 27                                              |
|      | 30                                         | 1.02        | 1.02     | 1.11     | 27.4         | 21.3                          | 31                                              |      | 24                                         | 740         | 736      | 798      | 29.3         | 17.8                          | 27                                              |
|      | 32                                         | 1.14        | 1.14     | 1.25     | 27.5         | 22.4                          | 31                                              |      | 26                                         | 855         | 850      | 923      | 29.3         | 19.0                          | 28                                              |
|      | 34                                         | 1.27        | 1.27     | 1.40     | 27.5         | 23.6                          | 32                                              |      | 28                                         | 975         | 970      | 1.06     | 29.4         | 20.2                          | 29                                              |
|      | 36                                         | 1.40        | 1.40     | 1.55     | 27.6         | 24.7                          | 33                                              |      | 30                                         | 1.10        | 1.10     | 1.20     | 29.4         | 21.4                          | 29                                              |
|      | 38                                         | 1.53        | 1.53     | 1.70     | 27.7         | 26.0                          | 33                                              |      | 32                                         | 1.24        | 1.24     | 1.34     | 29.5         | 22.6                          | 30                                              |
| 40   | 1.68                                       | 1.68        | 1.87     | 27.7     | 27.7         | 34                            | 34                                              |      | 1.38                                       | 1.38        | 1.50     | 29.5     | 23.8         | 31                            |                                                 |
| 42   | 1.82                                       | 1.82        | 2.03     | 27.8     | 28.4         | 35                            | 36                                              |      | 1.52                                       | 1.52        | 1.66     | 29.6     | 25.0         | 31                            |                                                 |
| 44   | 1.97                                       | 1.97        | 2.20     | 27.8     | 29.8         | 35                            | 38                                              |      | 1.67                                       | 1.67        | 1.83     | 29.7     | 26.2         | 32                            |                                                 |
| 46   | 2.12                                       | 2.12        | 2.38     | 27.9     | 30.8         | 36                            | 40                                              |      | 1.83                                       | 1.83        | 2.01     | 29.7     | 27.4         | 33                            |                                                 |
| 48   | 2.27                                       | 2.27        | 2.56     | 27.9     | 31.9         | 36                            | 42                                              |      | 1.98                                       | 1.98        | 2.18     | 29.8     | 28.7         | 33                            |                                                 |
| 50   | 2.42                                       | 2.42        | 2.73     | 28.0     | 33.0         | 37                            | 44                                              |      | 2.15                                       | 2.15        | 2.37     | 29.8     | 29.9         | 34                            |                                                 |
| 52   | 2.57                                       | 2.57        | 2.91     | 28.0     | 34.0         | 37                            | 46                                              |      | 2.31                                       | 2.31        | 2.55     | 29.9     | 31.0         | 34                            |                                                 |
| 31   | 54                                         | 2.73        | 2.73     | 3.10     | 28.0         | 35.1                          | 38                                              | 48   | 2.47                                       | 2.47        | 2.74     | 30.0     | 32.1         | 35                            |                                                 |
|      | 56                                         | 2.89        | 2.89     | 3.29     | 28.0         | 36.3                          | 38                                              | 50   | 2.63                                       | 2.63        | 2.93     | 30.0     | 33.3         | 36                            |                                                 |
|      | 58                                         | 3.06        | 3.06     | 3.49     | 28.1         | 37.4                          | 39                                              | 52   | 2.80                                       | 2.80        | 3.13     | 30.0     | 34.4         | 36                            |                                                 |
|      | 60                                         | 3.23        | 3.23     | 3.71     | 28.1         | 38.5                          | 39                                              | 54   | 2.98                                       | 2.98        | 3.33     | 30.1     | 35.6         | 37                            |                                                 |
|      | 62                                         | 3.41        | 3.41     | 3.92     | 28.1         | 39.6                          | 40                                              | 56   | 3.14                                       | 3.14        | 3.52     | 30.1     | 36.8         | 37                            |                                                 |
|      | 64                                         | 3.59        | 3.59     | 4.12     | 28.1         | 40.7                          | 40                                              | 58   | 3.32                                       | 3.32        | 3.73     | 30.1     | 37.9         | 38                            |                                                 |
|      | 66                                         | 3.79        | 3.79     | 4.30     | 28.1         | 41.7                          | 41                                              | 60   | 3.51                                       | 3.51        | 3.96     | 30.1     | 39.0         | 38                            |                                                 |
|      | 68                                         | 3.96        | 3.96     | 4.48     | 28.2         | 42.7                          | 41                                              | 62   | 3.69                                       | 3.69        | 4.17     | 30.2     | 40.0         | 39                            |                                                 |
|      | 70                                         | 4.13        | 4.13     | 4.69     | 28.2         | 43.6                          | 41                                              | 64   | 3.89                                       | 3.89        | 4.42     | 30.2     | 41.0         | 39                            |                                                 |
|      | 22                                         | 0.618       | 0.612    | 0.666    | 28.0         | 16.5                          | 27                                              | 66   | 4.08                                       | 4.08        | 4.63     | 30.2     | 42.0         | 40                            |                                                 |
|      | 24                                         | 708         | 702      | 766      | 28.0         | 17.8                          | 27                                              | 68   | 4.29                                       | 4.29        | 4.90     | 30.2     | 43.0         | 40                            |                                                 |
|      | 26                                         | 822         | 817      | 891      | 28.1         | 19.0                          | 28                                              | 70   | 4.49                                       | 4.49        | 5.13     | 30.2     | 43.9         | 40                            |                                                 |
|      | 28                                         | 938         | 933      | 1.02     | 28.1         | 20.2                          | 28                                              | 72   | 4.69                                       | 4.69        | 5.38     | 30.3     | 44.8         | 41                            |                                                 |
| 30   | 1.06                                       | 1.06        | 1.16     | 28.2     | 21.4         | 29                            | 74                                              | 4.89 | 4.89                                       | 5.51        | 30.3     | 45.8     | 41           |                               |                                                 |
| 32   | 1.19                                       | 1.19        | 1.30     | 28.2     | 22.6         | 29                            | 76                                              | 5.09 | 5.09                                       | 5.88        | 30.3     | 46.7     | 41           |                               |                                                 |
| 34   | 1.32                                       | 1.32        | 1.45     | 28.3     | 23.8         | 30                            | 78                                              | 5.29 | 5.29                                       | 6.15        | 30.3     | 47.6     | 41           |                               |                                                 |

| Höhe | Durchmesser bei<br>1,3 m über dem<br>Boden | I n h a l t    |          |          | Derbholzlänge | Derbholzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1,3 m über dem<br>Boden | I n h a l t    |          |          | Derbholzlänge | Derbholzmitten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |                |
|------|--------------------------------------------|----------------|----------|----------|---------------|---------------------------|-------------------------------------------------|------|--------------------------------------------|----------------|----------|----------|---------------|---------------------------|-------------------------------------------------|----------------|
|      |                                            | Schaftholz     | Derbholz | Baumholz |               |                           |                                                 |      |                                            | Schaftholz     | Derbholz | Baumholz |               |                           |                                                 |                |
|      |                                            |                |          |          |               |                           |                                                 |      |                                            |                |          |          |               |                           |                                                 | m <sup>3</sup> |
| m    | cm                                         | m <sup>3</sup> |          |          | m             | cm                        |                                                 | m    | cm                                         | m <sup>3</sup> |          |          | m             | cm                        |                                                 |                |
| 33   | 22                                         | 0.664          | 0.658    | 0.710    | 30.1          | 16.6                      | 27                                              | 34   | 62                                         | 4.04           | 4.04     | 4.49     | 32.6          | 40.7                      | 36                                              |                |
|      | 24                                         | 767            | 761      | 821      | 30.2          | 17.8                      | 27                                              |      | 64                                         | 4.21           | 4.21     | 4.70     | 32.6          | 41.8                      | 37                                              |                |
|      | 26                                         | 889            | 884      | 901      | 30.3          | 19.0                      | 28                                              |      | 66                                         | 4.42           | 4.42     | 4.94     | 32.7          | 42.8                      | 37                                              |                |
|      | 28                                         | 1.01           | 1.00     | 1.09     | 30.4          | 20.2                      | 28                                              |      | 68                                         | 4.64           | 4.64     | 5.20     | 32.7          | 43.8                      | 38                                              |                |
|      | 30                                         | 1.15           | 1.14     | 1.24     | 30.5          | 21.5                      | 29                                              |      | 70                                         | 4.89           | 4.89     | 5.49     | 32.7          | 44.7                      | 38                                              |                |
|      | 32                                         | 1.29           | 1.29     | 1.39     | 30.6          | 22.7                      | 29                                              |      | 72                                         | 5.09           | 5.09     | 5.74     | 32.7          | 45.6                      | 39                                              |                |
|      | 34                                         | 1.44           | 1.44     | 1.56     | 30.7          | 23.9                      | 30                                              |      | 74                                         | 5.31           | 5.31     | 6.00     | 32.8          | 46.5                      | 39                                              |                |
|      | 36                                         | 1.60           | 1.60     | 1.75     | 30.8          | 25.2                      | 30                                              |      | 76                                         | 5.54           | 5.54     | 6.28     | 32.8          | 47.5                      | 39                                              |                |
|      | 38                                         | 1.75           | 1.75     | 1.89     | 30.9          | 26.4                      | 31                                              |      | 78                                         | 5.80           | 5.80     | 6.59     | 32.8          | 48.4                      | 40                                              |                |
|      | 40                                         | 1.91           | 1.91     | 2.08     | 31.0          | 27.7                      | 31                                              |      | 80                                         | 5.98           | 5.98     | 6.83     | 32.8          | 49.3                      | 40                                              |                |
|      | 42                                         | 2.07           | 2.07     | 2.26     | 31.1          | 28.9                      | 32                                              |      | 82                                         | 6.21           | 6.21     | 7.09     | 32.8          | 50.2                      | 40                                              |                |
|      | 44                                         | 2.24           | 2.24     | 2.45     | 31.2          | 30.1                      | 32                                              |      | 84                                         | 6.47           | 6.47     | 7.41     | 32.8          | 51.1                      | 40                                              |                |
|      | 46                                         | 2.41           | 2.41     | 2.64     | 31.3          | 31.2                      | 33                                              |      | 35                                         | 24             | 0.834    | 0.828    | 0.888         | 32.8                      | 18.0                                            | 26             |
|      | 48                                         | 2.67           | 2.67     | 2.92     | 31.4          | 32.3                      | 33                                              |      |                                            | 26             | 965      | 960      | 1.03          | 32.9                      | 19.2                                            | 26             |
|      | 50                                         | 2.81           | 2.81     | 3.09     | 31.4          | 33.5                      | 34                                              |      |                                            | 28             | 1.10     | 1.09     | 1.18          | 32.9                      | 20.5                                            | 27             |
|      | 52                                         | 2.93           | 2.93     | 3.30     | 31.5          | 34.6                      | 34                                              |      |                                            | 30             | 1.24     | 1.24     | 1.33          | 33.0                      | 21.8                                            | 27             |
|      | 54                                         | 3.11           | 3.11     | 3.52     | 31.5          | 35.8                      | 35                                              |      |                                            | 32             | 1.40     | 1.40     | 1.49          | 33.0                      | 23.0                                            | 28             |
|      | 56                                         | 3.29           | 3.29     | 3.73     | 31.6          | 37.0                      | 35                                              |      |                                            | 34             | 1.55     | 1.55     | 1.67          | 33.1                      | 24.2                                            | 28             |
|      | 58                                         | 3.47           | 3.47     | 3.95     | 31.6          | 38.1                      | 36                                              |      |                                            | 36             | 1.73     | 1.73     | 1.85          | 33.1                      | 25.5                                            | 28             |
|      | 60                                         | 3.67           | 3.67     | 4.18     | 31.6          | 39.2                      | 36                                              |      |                                            | 38             | 1.88     | 1.88     | 2.03          | 33.2                      | 26.7                                            | 29             |
| 62   | 3.86                                       | 3.86           | 4.42     | 31.7     | 40.4          | 37                        | 40                                              | 2.03 |                                            | 2.03           | 2.23     | 33.2     | 28.0          | 29                        |                                                 |                |
| 64   | 4.09                                       | 4.09           | 4.69     | 31.7     | 41.5          | 37                        | 42                                              | 2.19 |                                            | 2.19           | 2.42     | 33.3     | 29.2          | 30                        |                                                 |                |
| 66   | 4.27                                       | 4.27           | 4.92     | 31.7     | 42.5          | 38                        | 44                                              | 2.37 | 2.37                                       | 2.63           | 33.3     | 30.4     | 30            |                           |                                                 |                |
| 68   | 4.49                                       | 4.49           | 5.17     | 31.7     | 43.5          | 38                        | 46                                              | 2.55 | 2.55                                       | 2.84           | 33.4     | 31.5     | 31            |                           |                                                 |                |
| 70   | 4.69                                       | 4.69           | 5.42     | 31.7     | 44.4          | 39                        | 48                                              | 2.76 | 2.76                                       | 3.06           | 33.4     | 32.7     | 31            |                           |                                                 |                |
| 72   | 4.88                                       | 4.88           | 5.65     | 31.8     | 45.3          | 39                        | 50                                              | 2.98 | 2.98                                       | 3.28           | 33.5     | 33.9     | 32            |                           |                                                 |                |
| 74   | 5.11                                       | 5.11           | 5.90     | 31.8     | 46.3          | 39                        | 52                                              | 3.19 | 3.19                                       | 3.50           | 33.5     | 35.1     | 32            |                           |                                                 |                |
| 76   | 5.38                                       | 5.38           | 6.27     | 31.8     | 47.2          | 40                        | 54                                              | 3.39 | 3.39                                       | 3.72           | 33.5     | 36.3     | 33            |                           |                                                 |                |
| 78   | 5.56                                       | 5.56           | 6.47     | 31.8     | 48.1          | 40                        | 56                                              | 3.57 | 3.57                                       | 3.93           | 33.6     | 37.5     | 33            |                           |                                                 |                |
| 80   | 5.78                                       | 5.78           | 6.71     | 31.8     | 49.0          | 40                        | 58                                              | 3.77 | 3.77                                       | 4.16           | 33.6     | 38.7     | 34            |                           |                                                 |                |
| 34   | 24                                         | 0.801          | 0.795    | 0.855    | 31.5          | 18.0                      | 27                                              | 36   | 60                                         | 3.98           | 3.98     | 4.41     | 33.6          | 39.9                      | 34                                              |                |
|      | 26                                         | 920            | 914      | 992      | 31.6          | 19.2                      | 27                                              |      | 62                                         | 4.20           | 4.20     | 4.65     | 33.7          | 41.0                      | 35                                              |                |
|      | 28                                         | 1.06           | 1.05     | 1.13     | 31.7          | 20.4                      | 28                                              |      | 64                                         | 4.41           | 4.41     | 4.90     | 33.7          | 42.1                      | 35                                              |                |
|      | 30                                         | 1.20           | 1.20     | 1.28     | 31.8          | 21.7                      | 28                                              |      | 66                                         | 4.62           | 4.62     | 5.15     | 33.7          | 43.1                      | 35                                              |                |
|      | 32                                         | 1.34           | 1.34     | 1.44     | 31.9          | 22.9                      | 29                                              |      | 68                                         | 4.83           | 4.83     | 5.40     | 33.7          | 44.1                      | 36                                              |                |
|      | 34                                         | 1.49           | 1.49     | 1.61     | 32.0          | 24.1                      | 29                                              |      | 70                                         | 5.06           | 5.06     | 5.67     | 33.8          | 45.0                      | 36                                              |                |
|      | 36                                         | 1.65           | 1.65     | 1.79     | 32.0          | 25.3                      | 30                                              |      | 72                                         | 5.25           | 5.25     | 5.94     | 33.8          | 45.9                      | 37                                              |                |
|      | 38                                         | 1.80           | 1.80     | 1.96     | 32.1          | 26.6                      | 30                                              |      | 74                                         | 5.49           | 5.49     | 6.33     | 33.8          | 46.9                      | 37                                              |                |
|      | 40                                         | 1.99           | 1.99     | 2.15     | 32.1          | 27.9                      | 31                                              |      | 76                                         | 5.76           | 5.76     | 6.66     | 33.8          | 47.8                      | 38                                              |                |
|      | 42                                         | 2.28           | 2.28     | 2.34     | 32.2          | 29.1                      | 31                                              |      | 78                                         | 5.98           | 5.98     | 6.93     | 33.8          | 49.7                      | 38                                              |                |
|      | 44                                         | 2.34           | 2.34     | 2.54     | 32.2          | 30.2                      | 32                                              |      | 80                                         | 6.23           | 6.23     | 7.25     | 33.8          | 50.6                      | 38                                              |                |
|      | 46                                         | 2.52           | 2.52     | 2.74     | 32.3          | 31.3                      | 32                                              |      | 82                                         | 6.49           | 6.49     | 7.57     | 33.8          | 51.5                      | 39                                              |                |
|      | 48                                         | 2.70           | 2.70     | 2.95     | 32.3          | 32.4                      | 33                                              |      | 84                                         | 6.75           | 6.75     | 7.89     | 33.8          | 53.3                      | 39                                              |                |
|      | 50                                         | 2.88           | 2.88     | 3.15     | 32.4          | 33.6                      | 33                                              |      | 86                                         | 7.00           | 7.00     | 8.20     | 33.8          | 51.1                      | 39                                              |                |
|      | 52                                         | 3.06           | 3.06     | 3.36     | 32.4          | 34.7                      | 34                                              |      | 36                                         | 26             | 0.999    | 0.993    | 1.06          | 34.0                      | 19.3                                            | 26             |
|      | 54                                         | 3.25           | 3.25     | 3.57     | 32.5          | 36.0                      | 34                                              |      |                                            | 28             | 1.14     | 1.13     | 1.21          | 34.0                      | 20.6                                            | 26             |
|      | 56                                         | 3.43           | 3.43     | 3.79     | 32.5          | 37.2                      | 35                                              |      |                                            | 30             | 1.29     | 1.29     | 1.38          | 34.1                      | 21.9                                            | 26             |
|      | 58                                         | 3.63           | 3.63     | 4.01     | 32.5          | 38.4                      | 35                                              |      |                                            | 32             | 1.44     | 1.44     | 1.64          | 34.1                      | 23.1                                            | 27             |
|      | 60                                         | 3.83           | 3.83     | 4.25     | 32.6          | 39.5                      | 36                                              |      |                                            | 34             | 1.61     | 1.61     | 1.72          | 34.1                      | 24.3                                            | 27             |
|      |                                            |                |          |          |               |                           |                                                 |      |                                            |                |          |          |               |                           |                                                 |                |

| Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t |          |          | Derbholzlänge | Derbholzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe | Höhe | Durchmesser bei<br>1·3 m über dem<br>Boden | I n h a l t |          |          | Derbholzlänge | Derbholzmit-<br>ten-<br>stärke | Kronenlänge in Pro-<br>zenten der Baum-<br>höhe |    |
|------|--------------------------------------------|-------------|----------|----------|---------------|--------------------------------|-------------------------------------------------|------|--------------------------------------------|-------------|----------|----------|---------------|--------------------------------|-------------------------------------------------|----|
|      |                                            | Schafholz   | Derbholz | Baumholz |               |                                |                                                 |      |                                            | Schafholz   | Derbholz | Baumholz |               |                                |                                                 |    |
|      |                                            |             |          |          |               |                                |                                                 |      |                                            |             |          |          |               |                                |                                                 |    |
| m    | cm                                         | m³          |          |          | m             | cm                             |                                                 | m    | cm                                         | m³          |          |          | m             | cm                             |                                                 |    |
| 36   | 36                                         | 1·78        | 1·78     | 1·91     | 34·2          | 25·7                           | 27                                              | 37   | 68                                         | 5·21        | 5·21     | 5·80     | 36·7          | 44·7                           | 34                                              |    |
|      | 38                                         | 1·95        | 1·95     | 2·10     | 34·2          | 26·9                           | 28                                              |      | 70                                         | 5·44        | 5·44     | 6·06     | 36·7          | 45·7                           | 35                                              |    |
|      | 40                                         | 2·15        | 2·15     | 2·31     | 34·2          | 28·1                           | 28                                              |      | 72                                         | 5·71        | 5·71     | 6·39     | 36·7          | 46·6                           | 35                                              |    |
|      | 42                                         | 2·33        | 2·33     | 2·51     | 34·3          | 29·3                           | 29                                              |      | 74                                         | 5·93        | 5·93     | 6·65     | 36·7          | 47·5                           | 36                                              |    |
|      | 44                                         | 2·53        | 2·53     | 2·72     | 34·3          | 30·5                           | 29                                              |      | 76                                         | 6·20        | 6·20     | 6·98     | 36·8          | 48·4                           | 36                                              |    |
|      | 46                                         | 2·72        | 2·72     | 2·94     | 34·3          | 31·7                           | 30                                              |      | 78                                         | 6·46        | 6·46     | 7·27     | 36·8          | 49·4                           | 36                                              |    |
|      | 48                                         | 2·92        | 2·92     | 3·16     | 34·4          | 32·9                           | 30                                              |      | 80                                         | 6·71        | 6·71     | 7·59     | 36·8          | 50·3                           | 37                                              |    |
|      | 50                                         | 3·12        | 3·12     | 3·39     | 34·4          | 34·1                           | 31                                              |      | 82                                         | 6·98        | 6·98     | 7·90     | 36·8          | 51·2                           | 37                                              |    |
|      | 52                                         | 3·32        | 3·32     | 3·61     | 34·4          | 35·3                           | 31                                              |      | 84                                         | 7·28        | 7·28     | 8·24     | 36·8          | 52·1                           | 38                                              |    |
|      | 54                                         | 3·52        | 3·52     | 3·84     | 34·5          | 36·6                           | 32                                              |      | 86                                         | 7·52        | 7·52     | 8·53     | 36·8          | 53·0                           | 38                                              |    |
|      | 56                                         | 3·72        | 3·72     | 4·07     | 34·5          | 37·8                           | 32                                              |      | 88                                         | 7·81        | 7·81     | 8·93     | 36·8          | 53·9                           | 38                                              |    |
|      | 58                                         | 3·92        | 3·92     | 4·30     | 34·5          | 39·0                           | 33                                              |      | 90                                         | 8·08        | 8·08     | 9·24     | 36·8          | 54·8                           | 39                                              |    |
|      | 60                                         | 4·15        | 4·15     | 4·56     | 34·6          | 40·2                           | 33                                              |      | 92                                         | 8·39        | 8·39     | 9·60     | 36·8          | 55·7                           | 39                                              |    |
|      | 62                                         | 4·37        | 4·37     | 4·82     | 34·6          | 41·4                           | 34                                              |      | 38                                         | 28          | 1·23     | 1·22     | 1·31          | 36·2                           | 20·9                                            | 25 |
|      | 64                                         | 4·58        | 4·58     | 5·06     | 34·6          | 42·5                           | 34                                              |      |                                            | 30          | 1·39     | 1·39     | 1·43          | 36·2                           | 22·2                                            | 25 |
|      | 66                                         | 4·80        | 4·80     | 5·31     | 34·7          | 43·5                           | 35                                              |      |                                            | 32          | 1·56     | 1·56     | 1·66          | 36·2                           | 23·4                                            | 26 |
|      | 68                                         | 4·99        | 4·99     | 5·61     | 34·7          | 44·4                           | 35                                              |      |                                            | 34          | 1·74     | 1·74     | 1·85          | 36·3                           | 24·7                                            | 26 |
|      | 70                                         | 5·28        | 5·28     | 5·88     | 34·7          | 45·3                           | 35                                              |      |                                            | 36          | 1·93     | 1·93     | 2·06          | 36·3                           | 26·0                                            | 27 |
|      | 72                                         | 5·51        | 5·51     | 6·14     | 34·7          | 46·2                           | 36                                              |      |                                            | 38          | 2·10     | 2·10     | 2·25          | 36·3                           | 27·2                                            | 27 |
|      | 74                                         | 5·73        | 5·73     | 6·42     | 34·8          | 47·2                           | 36                                              |      |                                            | 40          | 2·31     | 2·31     | 2·46          | 36·4                           | 28·4                                            | 28 |
| 76   | 5·97                                       | 5·97        | 6·68     | 34·8     | 48·1          | 37                             | 42                                              | 2·45 |                                            | 2·45        | 2·64     | 36·4     | 29·6          | 28                             |                                                 |    |
| 78   | 6·23                                       | 6·23        | 7·00     | 34·8     | 49·0          | 37                             | 44                                              | 2·66 |                                            | 2·66        | 2·87     | 36·4     | 30·8          | 29                             |                                                 |    |
| 80   | 6·48                                       | 6·48        | 7·29     | 34·8     | 50·0          | 37                             | 46                                              | 2·86 |                                            | 2·86        | 3·10     | 36·5     | 32·0          | 29                             |                                                 |    |
| 82   | 6·73                                       | 6·73        | 7·60     | 34·8     | 50·9          | 38                             | 48                                              | 3·01 | 3·01                                       | 3·34        | 36·5     | 33·3     | 30            |                                |                                                 |    |
| 84   | 6·98                                       | 6·98        | 7·90     | 34·8     | 51·7          | 38                             | 50                                              | 3·22 | 3·22                                       | 3·58        | 36·5     | 34·6     | 30            |                                |                                                 |    |
| 86   | 7·27                                       | 7·27        | 8·25     | 34·8     | 52·6          | 38                             | 52                                              | 3·43 | 3·43                                       | 3·83        | 36·6     | 35·8     | 31            |                                |                                                 |    |
| 88   | 7·56                                       | 7·56        | 8·58     | 34·8     | 53·5          | 39                             | 54                                              | 3·65 | 3·65                                       | 4·08        | 36·6     | 37·0     | 31            |                                |                                                 |    |
| 90   | 7·83                                       | 7·83        | 8·93     | 34·8     | 54·4          | 39                             | 56                                              | 4·05 | 4·05                                       | 4·33        | 36·6     | 38·3     | 32            |                                |                                                 |    |
| 37   | 26                                         | 1·04        | 1·03     | 1·10     | 35·0          | 19·4                           | 25                                              | 58   | 4·26                                       | 4·26        | 4·57     | 36·7     | 39·6          | 32                             |                                                 |    |
|      | 28                                         | 1·19        | 1·18     | 1·26     | 35·1          | 20·7                           | 25                                              | 60   | 4·50                                       | 4·50        | 4·83     | 36·7     | 40·0          | 33                             |                                                 |    |
|      | 30                                         | 1·34        | 1·34     | 1·44     | 35·1          | 22·1                           | 26                                              | 62   | 4·73                                       | 4·73        | 5·09     | 36·7     | 41·9          | 33                             |                                                 |    |
|      | 32                                         | 1·50        | 1·50     | 1·60     | 36·1          | 23·3                           | 26                                              | 64   | 4·92                                       | 4·92        | 5·33     | 36·7     | 43·0          | 34                             |                                                 |    |
|      | 34                                         | 1·67        | 1·67     | 1·79     | 36·1          | 24·5                           | 27                                              | 66   | 5·17                                       | 5·17        | 5·59     | 36·8     | 44·0          | 34                             |                                                 |    |
|      | 36                                         | 1·85        | 1·85     | 1·99     | 36·2          | 25·8                           | 27                                              | 68   | 5·41                                       | 5·41        | 5·86     | 36·8     | 45·0          | 34                             |                                                 |    |
|      | 38                                         | 2·03        | 2·03     | 2·18     | 36·2          | 27·0                           | 28                                              | 70   | 5·65                                       | 5·65        | 6·13     | 36·8     | 45·9          | 35                             |                                                 |    |
|      | 40                                         | 2·24        | 2·24     | 2·40     | 36·2          | 28·3                           | 28                                              | 72   | 5·94                                       | 5·94        | 6·45     | 36·8     | 46·9          | 35                             |                                                 |    |
|      | 42                                         | 2·42        | 2·42     | 2·61     | 36·3          | 29·5                           | 28                                              | 74   | 6·08                                       | 6·08        | 6·72     | 36·8     | 47·8          | 35                             |                                                 |    |
|      | 44                                         | 2·62        | 2·62     | 2·83     | 36·3          | 30·7                           | 29                                              | 76   | 6·42                                       | 6·42        | 7·00     | 36·8     | 48·8          | 36                             |                                                 |    |
|      | 46                                         | 2·82        | 2·82     | 3·06     | 36·3          | 31·9                           | 29                                              | 78   | 6·72                                       | 6·72        | 7·32     | 36·8     | 49·8          | 36                             |                                                 |    |
|      | 48                                         | 3·04        | 3·04     | 3·29     | 36·4          | 33·1                           | 29                                              | 80   | 6·97                                       | 6·97        | 7·62     | 36·8     | 50·7          | 37                             |                                                 |    |
|      | 50                                         | 3·24        | 3·24     | 3·52     | 36·4          | 34·3                           | 30                                              | 82   | 7·26                                       | 7·26        | 7·96     | 36·8     | 51·7          | 37                             |                                                 |    |
|      | 52                                         | 3·45        | 3·45     | 3·76     | 36·4          | 35·5                           | 30                                              | 84   | 7·55                                       | 7·55        | 8·29     | 36·8     | 52·6          | 37                             |                                                 |    |
|      | 54                                         | 3·67        | 3·67     | 4·04     | 36·5          | 36·8                           | 31                                              | 86   | 7·82                                       | 7·82        | 8·62     | 36·8     | 53·5          | 38                             |                                                 |    |
|      | 56                                         | 3·88        | 3·88     | 4·25     | 36·5          | 38·0                           | 31                                              | 88   | 8·11                                       | 8·11        | 8·94     | 36·8     | 54·4          | 38                             |                                                 |    |
| 58   | 4·08                                       | 4·08        | 4·48     | 36·5     | 39·2          | 32                             | 90                                              | 8·42 | 8·42                                       | 9·29        | 36·9     | 55·3     | 38            |                                |                                                 |    |
| 60   | 4·32                                       | 4·32        | 4·76     | 36·6     | 40·4          | 32                             | 92                                              | 8·73 | 8·73                                       | 9·66        | 36·9     | 56·3     | 38            |                                |                                                 |    |
| 62   | 4·54                                       | 4·54        | 5·01     | 36·6     | 41·6          | 33                             | 94                                              | 9·03 | 9·03                                       | 10·00       | 36·9     | 57·2     | 39            |                                |                                                 |    |
| 64   | 4·76                                       | 4·76        | 5·27     | 36·6     | 42·7          | 33                             | 96                                              | 9·32 | 9·32                                       | 10·33       | 36·9     | 58·0     | 39            |                                |                                                 |    |
| 66   | 5·00                                       | 5·00        | 5·55     | 36·6     | 43·8          | 34                             | 98                                              | 9·62 | 9·62                                       | 10·77       | 36·9     | 58·7     | 39            |                                |                                                 |    |

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