

Forestry Commission Booklet No. 31

Metric
Top Diameter
SAWLOG TABLES



LONDON: HER MAJESTY'S STATIONERY OFFICE

Price 2s 6d [12½p] net

Forestry Commission
ARCHIVE

Metric
Top Diameter
SAWLOG TABLES

(1) These tables are designed to give volumes of softwood sawlogs for given LENGTHS and TOP DIAMETERS in metric units.

(2) The use of top diameter as opposed to the more traditional mid diameter (or mid quarter-girth) is frequently more convenient and provides a more useful basis for size classification.

(3) In constructing the tables a standard taper of 1:120 has been used, i.e. 1 cm diameter in 1.2 metres (1 in. in 10 ft.) (See Note (a)).

(4) Lengths will normally be rounded down to the nearest 0.1 m. It is expected that most sawlogs will be cross-cut to conform to the international sawn softwood standard length specifications which range from 1.8 m to 6.3 m in steps of 0.3 m. For this reason the 0.1 m length intervals in the tables have been grouped in threes so that the standard 0.3 m multiples appear as the first entry in each group. (See Note (b)).

(5) Top diameters will normally be measured underbark with a rule graduated in centimetres (See Note (c)) and will be measured across the smallest diameter.

The top diameter entries in the tables are tabulated in 2 cm intervals from 10 cm to 80 cm. The diameter values at the head of each column refer to the lower limit of each diameter class, e.g. the 14-16 cm class is headed 14.

(6) Volumes are quoted in true cubic metres to two decimal places and will normally be underbark (See Note (d)).

The volumes are based on the mean diameter rather than the minimum diameter of each class. For example the 14-16 cm class is headed 14, but volumes are calculated using 15 cm top diameter. This is based on the assumption that the top diameters of individual logs will be distributed evenly over the range of each 2 cm class (See Note (e)).

Notes

- (a) The taper referred to here is that between the top and the mid-point of a log. The rate of taper of 1:120 is considered to be a reasonable average for softwood sawlogs in Britain. The taper of individual logs may be expected to deviate from the standard rate, and for this reason the tables will tend to be less reliable for small numbers of logs, or when top or butt logs predominate.
- (b) A small extra allowance, normally of 0.05 m, will be made on sawlog length to permit subsequent cross-cutting and should be agreed with the buyer beforehand.
- (c) Plastic rules incorporating an abbreviated version of the tables will be available in due course. These will be graduated in terms of the 2 cm classes and the volumes printed between the class markings and against a range of lengths in 0.3 m intervals.

- (d) It is intended that the tables be used with underbark top diameter to give underbark volumes. Estimates of overbark volume can be obtained from the tables by using overbark rather than underbark top diameter. An alternative method of obtaining overbark equivalents is to use the table of bark percentages for different species on page 22
- (e) If logs are cut to specified top diameters the volumes in the tables will be more appropriate if the specified top diameters accord with the *mean* top diameter of the 2 cm classes and less appropriate if all the specified diameters fall towards either the upper or the lower ends of the 2 cm top diameter classes.
- (f) Volume estimates based on these tables can be expected to be approximately the same as those derived from mid-diameter tables (F.C. Booklet 26, *Metric Volume Ready Reckoner for Round Timber*) provided that the underbark taper is 1:120, that top diameters are randomly distributed and that the added bark percentage is appropriate.

MENSURATION SECTION
MANAGEMENT SERVICES DIVISION
FORESTRY COMMISSION
April, 1970.

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London W1X 2AY

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
10	12		14	16
0.02	0.03	1.8	0.04	0.04
0.02	0.03	1.9	0.04	0.05
0.02	0.03	2.0	0.04	0.05
0.02	0.03	2.1	0.04	0.05
0.02	0.03	2.2	0.04	0.06
0.03	0.04	2.3	0.05	0.06
0.03	0.04	2.4	0.05	0.06
0.03	0.04	2.5	0.05	0.06
0.03	0.04	2.6	0.05	0.07
0.03	0.04	2.7	0.06	0.07
0.03	0.04	2.8	0.06	0.07
0.03	0.05	2.9	0.06	0.08
0.04	0.05	3.0	0.06	0.08
0.04	0.05	3.1	0.06	0.08
0.04	0.05	3.2	0.07	0.08
0.04	0.05	3.3	0.07	0.09
0.04	0.06	3.4	0.07	0.09
0.04	0.06	3.5	0.07	0.09
0.04	0.06	3.6	0.08	0.10
0.05	0.06	3.7	0.08	0.10
0.05	0.06	3.8	0.08	0.10
0.05	0.07	3.9	0.08	0.11
0.05	0.07	4.0	0.09	0.11
0.05	0.07	4.1	0.09	0.11
0.05	0.07	4.2	0.09	0.12
0.06	0.07	4.3	0.10	0.12
0.06	0.08	4.4	0.10	0.12
0.06	0.08	4.5	0.10	0.13
0.06	0.08	4.6	0.10	0.13
0.06	0.08	4.7	0.11	0.13
0.06	0.08	4.8	0.11	0.14
0.07	0.09	4.9	0.11	0.14
0.07	0.09	5.0	0.11	0.14

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
10	12		14	16
0.07	0.09	5.1	0.12	0.15
0.07	0.09	5.2	0.12	0.15
0.07	0.10	5.3	0.12	0.15
0.07	0.10	5.4	0.13	0.16
0.08	0.10	5.5	0.13	0.16
0.08	0.10	5.6	0.13	0.16
0.08	0.11	5.7	0.14	0.17
0.08	0.11	5.8	0.14	0.17
0.08	0.11	5.9	0.14	0.18
0.09	0.11	6.0	0.14	0.18
0.09	0.12	6.1	0.15	0.18
0.09	0.12	6.2	0.15	0.19
0.09	0.12	6.3	0.15	0.19
0.09	0.12	6.4	0.16	0.19
0.10	0.13	6.5	0.16	0.20
0.10	0.13	6.6	0.16	0.20
0.10	0.13	6.7	0.17	0.21
0.10	0.13	6.8	0.17	0.21
0.10	0.14	6.9	0.17	0.21
0.11	0.14	7.0	0.18	0.22
0.11	0.14	7.1	0.18	0.22
0.11	0.14	7.2	0.18	0.23
0.11	0.15	7.3	0.19	0.23
0.12	0.15	7.4	0.19	0.23
0.12	0.15	7.5	0.19	0.24
0.12	0.16	7.6	0.20	0.24
0.12	0.16	7.7	0.20	0.25
0.12	0.16	7.8	0.20	0.25
0.13	0.16	7.9	0.21	0.26
0.13	0.17	8.0	0.21	0.26
0.13	0.17	8.1	0.21	0.26
0.13	0.17	8.2	0.22	0.27
0.14	0.18	8.3	0.22	0.27

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
18	20		22	24
0.06	0.07	1.8	0.08	0.09
0.06	0.07	1.9	0.08	0.10
0.06	0.07	2.0	0.09	0.10
0.07	0.08	2.1	0.09	0.11
0.07	0.08	2.2	0.10	0.12
0.07	0.09	2.3	0.10	0.12
0.08	0.09	2.4	0.11	0.13
0.08	0.10	2.5	0.11	0.13
0.08	0.10	2.6	0.12	0.14
0.09	0.10	2.7	0.12	0.14
0.09	0.11	2.8	0.13	0.15
0.09	0.11	2.9	0.13	0.16
0.10	0.12	3.0	0.14	0.16
0.10	0.12	3.1	0.14	0.17
0.10	0.13	3.2	0.15	0.17
0.11	0.13	3.3	0.15	0.18
0.11	0.13	3.4	0.16	0.19
0.12	0.14	3.5	0.16	0.19
0.12	0.14	3.6	0.17	0.20
0.12	0.15	3.7	0.18	0.20
0.13	0.15	3.8	0.18	0.21
0.13	0.16	3.9	0.19	0.22
0.13	0.16	4.0	0.19	0.22
0.14	0.17	4.1	0.20	0.23
0.14	0.17	4.2	0.20	0.24
0.15	0.18	4.3	0.21	0.24
0.15	0.18	4.4	0.21	0.25
0.15	0.18	4.5	0.22	0.26
0.16	0.19	4.6	0.22	0.26
0.16	0.19	4.7	0.23	0.27
0.17	0.20	4.8	0.24	0.27
0.17	0.20	4.9	0.24	0.28
0.17	0.21	5.0	0.25	0.29

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
18	20		22	24
0.18	0.21	5.1	0.25	0.29
0.18	0.22	5.2	0.26	0.30
0.19	0.22	5.3	0.26	0.31
0.19	0.23	5.4	0.27	0.31
0.20	0.23	5.5	0.28	0.32
0.20	0.24	5.6	0.28	0.33
0.20	0.24	5.7	0.29	0.34
0.21	0.25	5.8	0.29	0.34
0.21	0.25	5.9	0.30	0.35
0.22	0.26	6.0	0.31	0.36
0.22	0.27	6.1	0.31	0.36
0.23	0.27	6.2	0.32	0.37
0.23	0.28	6.3	0.32	0.38
0.24	0.28	6.4	0.33	0.38
0.24	0.29	6.5	0.34	0.39
0.25	0.29	6.6	0.34	0.40
0.25	0.30	6.7	0.35	0.41
0.25	0.30	6.8	0.36	0.41
0.26	0.31	6.9	0.36	0.42
0.26	0.31	7.0	0.37	0.43
0.27	0.32	7.1	0.38	0.44
0.27	0.33	7.2	0.38	0.44
0.28	0.33	7.3	0.39	0.45
0.28	0.34	7.4	0.40	0.46
0.29	0.34	7.5	0.40	0.47
0.29	0.35	7.6	0.41	0.47
0.30	0.35	7.7	0.42	0.48
0.30	0.36	7.8	0.42	0.49
0.31	0.37	7.9	0.43	0.50
0.31	0.37	8.0	0.44	0.50
0.32	0.38	8.1	0.44	0.51
0.32	0.38	8.2	0.45	0.52
0.33	0.39	8.3	0.46	0.53

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
26	28		30	32
0.11	0.13	1.8	0.14	0.16
0.12	0.13	1.9	0.15	0.17
0.12	0.14	2.0	0.16	0.18
0.13	0.15	2.1	0.17	0.19
0.13	0.15	2.2	0.18	0.20
0.14	0.16	2.3	0.18	0.21
0.15	0.17	2.4	0.19	0.22
0.15	0.18	2.5	0.20	0.23
0.16	0.18	2.6	0.21	0.24
0.17	0.19	2.7	0.22	0.25
0.17	0.20	2.8	0.23	0.26
0.18	0.21	2.9	0.24	0.27
0.19	0.22	3.0	0.25	0.28
0.19	0.22	3.1	0.25	0.29
0.20	0.23	3.2	0.26	0.30
0.21	0.24	3.3	0.27	0.31
0.22	0.25	3.4	0.28	0.32
0.22	0.26	3.5	0.29	0.33
0.23	0.26	3.6	0.30	0.34
0.24	0.27	3.7	0.31	0.35
0.24	0.28	3.8	0.32	0.36
0.25	0.29	3.9	0.33	0.37
0.26	0.30	4.0	0.34	0.38
0.27	0.30	4.1	0.34	0.39
0.27	0.31	4.2	0.35	0.40
0.28	0.32	4.3	0.36	0.41
0.29	0.33	4.4	0.37	0.42
0.29	0.34	4.5	0.38	0.43
0.30	0.35	4.6	0.39	0.44
0.31	0.35	4.7	0.40	0.45
0.32	0.36	4.8	0.41	0.46
0.32	0.37	4.9	0.42	0.47
0.33	0.38	5.0	0.43	0.48

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
26	28		30	32
0.34	0.39	5.1	0.44	0.49
0.35	0.40	5.2	0.45	0.51
0.36	0.41	5.3	0.46	0.52
0.36	0.41	5.4	0.47	0.53
0.37	0.42	5.5	0.48	0.54
0.38	0.43	5.6	0.49	0.55
0.39	0.44	5.7	0.50	0.56
0.39	0.45	5.8	0.51	0.57
0.40	0.46	5.9	0.52	0.58
0.41	0.47	6.0	0.53	0.59
0.42	0.48	6.1	0.54	0.61
0.43	0.49	6.2	0.55	0.62
0.43	0.49	6.3	0.56	0.63
0.44	0.50	6.4	0.57	0.64
0.45	0.51	6.5	0.58	0.65
0.46	0.52	6.6	0.59	0.66
0.47	0.53	6.7	0.60	0.67
0.48	0.54	6.8	0.61	0.69
0.48	0.55	6.9	0.62	0.70
0.49	0.56	7.0	0.63	0.71
0.50	0.57	7.1	0.64	0.72
0.51	0.58	7.2	0.65	0.73
0.52	0.59	7.3	0.66	0.74
0.53	0.60	7.4	0.68	0.76
0.53	0.61	7.5	0.69	0.77
0.54	0.62	7.6	0.70	0.78
0.55	0.63	7.7	0.71	0.79
0.56	0.64	7.8	0.72	0.81
0.57	0.65	7.9	0.73	0.82
0.58	0.66	8.0	0.74	0.83
0.59	0.67	8.1	0.75	0.84
0.60	0.68	8.2	0.76	0.85
0.60	0.69	8.3	0.77	0.87

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
34	36		38	40
0.18	0.20	1.8	0.22	0.25
0.19	0.21	1.9	0.24	0.26
0.20	0.22	2.0	0.25	0.27
0.21	0.24	2.1	0.26	0.29
0.22	0.25	2.2	0.28	0.30
0.23	0.26	2.3	0.29	0.32
0.24	0.27	2.4	0.30	0.33
0.26	0.28	2.5	0.31	0.35
0.27	0.30	2.6	0.33	0.36
0.28	0.31	2.7	0.34	0.38
0.29	0.32	2.8	0.35	0.39
0.30	0.33	2.9	0.37	0.41
0.31	0.34	3.0	0.38	0.42
0.32	0.36	3.1	0.40	0.44
0.33	0.37	3.2	0.41	0.45
0.34	0.38	3.3	0.42	0.47
0.35	0.39	3.4	0.44	0.48
0.37	0.41	3.5	0.45	0.50
0.38	0.42	3.6	0.46	0.51
0.39	0.43	3.7	0.48	0.53
0.40	0.44	3.8	0.49	0.54
0.41	0.46	3.9	0.51	0.56
0.42	0.47	4.0	0.52	0.57
0.43	0.48	4.1	0.53	0.59
0.45	0.50	4.2	0.55	0.60
0.46	0.51	4.3	0.56	0.62
0.47	0.52	4.4	0.58	0.63
0.48	0.53	4.5	0.59	0.65
0.49	0.55	4.6	0.60	0.67
0.50	0.56	4.7	0.62	0.68
0.52	0.57	4.8	0.63	0.70
0.53	0.59	4.9	0.65	0.71
0.54	0.60	5.0	0.66	0.73

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
34	36		38	40
0.55	0.61	5.1	0.68	0.74
0.56	0.63	5.2	0.69	0.76
0.58	0.64	5.3	0.71	0.78
0.59	0.65	5.4	0.72	0.79
0.60	0.67	5.5	0.74	0.81
0.61	0.68	5.6	0.75	0.83
0.63	0.69	5.7	0.77	0.84
0.64	0.71	5.8	0.78	0.86
0.65	0.72	5.9	0.80	0.88
0.66	0.74	6.0	0.81	0.89
0.68	0.75	6.1	0.83	0.91
0.69	0.76	6.2	0.84	0.92
0.70	0.78	6.3	0.86	0.94
0.71	0.79	6.4	0.87	0.96
0.73	0.80	6.5	0.89	0.98
0.74	0.82	6.6	0.90	0.99
0.75	0.83	6.7	0.92	1.01
0.76	0.85	6.8	0.93	1.03
0.78	0.86	6.9	0.95	1.04
0.79	0.88	7.0	0.97	1.06
0.80	0.89	7.1	0.98	1.08
0.82	0.90	7.2	1.00	1.09
0.83	0.92	7.3	1.01	1.11
0.84	0.93	7.4	1.03	1.13
0.86	0.95	7.5	1.05	1.15
0.87	0.96	7.6	1.06	1.16
0.88	0.98	7.7	1.08	1.18
0.90	0.99	7.8	1.09	1.20
0.91	1.01	7.9	1.11	1.22
0.92	1.02	8.0	1.13	1.23
0.94	1.04	8.1	1.14	1.25
0.95	1.05	8.2	1.16	1.27
0.96	1.07	8.3	1.18	1.29

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
42	44		46	48
0.27	0.30	1.8	0.32	0.35
0.29	0.31	1.9	0.34	0.37
0.30	0.33	2.0	0.36	0.39
0.32	0.35	2.1	0.38	0.41
0.33	0.36	2.2	0.40	0.43
0.35	0.38	2.3	0.42	0.45
0.36	0.40	2.4	0.43	0.47
0.38	0.42	2.5	0.45	0.49
0.40	0.43	2.6	0.47	0.51
0.41	0.45	2.7	0.49	0.53
0.43	0.47	2.8	0.51	0.55
0.45	0.49	2.9	0.53	0.57
0.46	0.50	3.0	0.55	0.59
0.48	0.52	3.1	0.57	0.62
0.49	0.54	3.2	0.59	0.64
0.51	0.56	3.3	0.61	0.66
0.53	0.58	3.4	0.63	0.68
0.54	0.59	3.5	0.65	0.70
0.56	0.61	3.6	0.67	0.72
0.58	0.63	3.7	0.68	0.74
0.59	0.65	3.8	0.70	0.76
0.61	0.67	3.9	0.72	0.79
0.63	0.68	4.0	0.74	0.81
0.64	0.70	4.1	0.76	0.83
0.66	0.72	4.2	0.78	0.85
0.68	0.74	4.3	0.80	0.87
0.69	0.76	4.4	0.82	0.89
0.71	0.78	4.5	0.84	0.91
0.73	0.80	4.6	0.86	0.94
0.75	0.81	4.7	0.88	0.96
0.76	0.83	4.8	0.91	0.98
0.78	0.85	4.9	0.93	1.00
0.80	0.87	5.0	0.95	1.02

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
42	44		46	48
0.82	0.89	5.1	0.97	1.05
0.83	0.91	5.2	0.99	1.07
0.85	0.93	5.3	1.01	1.09
0.87	0.95	5.4	1.03	1.11
0.89	0.97	5.5	1.05	1.14
0.90	0.99	5.6	1.07	1.16
0.92	1.00	5.7	1.09	1.18
0.94	1.02	5.8	1.11	1.20
0.96	1.04	5.9	1.13	1.23
0.98	1.06	6.0	1.15	1.25
0.99	1.08	6.1	1.18	1.27
1.01	1.10	6.2	1.20	1.30
1.03	1.12	6.3	1.22	1.32
1.05	1.14	6.4	1.24	1.34
1.07	1.16	6.5	1.26	1.36
1.08	1.18	6.6	1.28	1.39
1.10	1.20	6.7	1.30	1.41
1.12	1.22	6.8	1.33	1.43
1.14	1.24	6.9	1.35	1.46
1.16	1.26	7.0	1.37	1.48
1.18	1.28	7.1	1.39	1.51
1.20	1.30	7.2	1.41	1.53
1.22	1.32	7.3	1.44	1.55
1.23	1.34	7.4	1.46	1.58
1.25	1.36	7.5	1.48	1.60
1.27	1.38	7.6	1.50	1.62
1.29	1.41	7.7	1.52	1.65
1.31	1.43	7.8	1.55	1.67
1.33	1.45	7.9	1.57	1.70
1.35	1.47	8.0	1.59	1.72
1.37	1.49	8.1	1.61	1.75
1.39	1.51	8.2	1.64	1.77
1.41	1.53	8.3	1.66	1.79

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
50	52		54	56
0.38	0.41	1.8	0.44	0.47
0.40	0.43	1.9	0.46	0.50
0.42	0.46	2.0	0.49	0.53
0.44	0.48	2.1	0.51	0.55
0.47	0.50	2.2	0.54	0.58
0.49	0.53	2.3	0.57	0.61
0.51	0.55	2.4	0.59	0.63
0.53	0.57	2.5	0.62	0.66
0.55	0.60	2.6	0.64	0.69
0.58	0.62	2.7	0.67	0.72
0.60	0.65	2.8	0.69	0.74
0.62	0.67	2.9	0.72	0.77
0.64	0.69	3.0	0.75	0.80
0.67	0.72	3.1	0.77	0.83
0.69	0.74	3.2	0.80	0.86
0.71	0.77	3.3	0.82	0.88
0.73	0.79	3.4	0.85	0.91
0.76	0.82	3.5	0.88	0.94
0.78	0.84	3.6	0.90	0.97
0.80	0.86	3.7	0.93	1.00
0.83	0.89	3.8	0.96	1.02
0.85	0.91	3.9	0.98	1.05
0.87	0.94	4.0	1.01	1.08
0.89	0.96	4.1	1.04	1.11
0.92	0.99	4.2	1.06	1.14
0.94	1.01	4.3	1.09	1.17
0.96	1.04	4.4	1.12	1.20
0.99	1.06	4.5	1.14	1.23
1.01	1.09	4.6	1.17	1.25
1.04	1.11	4.7	1.20	1.28
1.06	1.14	4.8	1.22	1.31
1.08	1.17	4.9	1.25	1.34
1.11	1.19	5.0	1.28	1.37

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
50	52		54	56
1.13	1.22	5.1	1.31	1.40
1.15	1.24	5.2	1.33	1.43
1.18	1.27	5.3	1.36	1.46
1.20	1.29	5.4	1.39	1.49
1.23	1.32	5.5	1.42	1.52
1.25	1.35	5.6	1.45	1.55
1.28	1.37	5.7	1.47	1.58
1.30	1.40	5.8	1.50	1.61
1.32	1.43	5.9	1.53	1.64
1.35	1.45	6.0	1.56	1.67
1.37	1.48	6.1	1.59	1.70
1.40	1.50	6.2	1.61	1.73
1.42	1.53	6.3	1.64	1.76
1.45	1.56	6.4	1.67	1.79
1.47	1.58	6.5	1.70	1.82
1.50	1.61	6.6	1.73	1.85
1.52	1.64	6.7	1.76	1.88
1.55	1.66	6.8	1.79	1.91
1.57	1.69	6.9	1.82	1.94
1.60	1.72	7.0	1.84	1.97
1.62	1.75	7.1	1.87	2.00
1.65	1.77	7.2	1.90	2.04
1.67	1.80	7.3	1.93	2.07
1.70	1.83	7.4	1.96	2.10
1.73	1.86	7.5	1.99	2.13
1.75	1.88	7.6	2.02	2.16
1.78	1.91	7.7	2.05	2.19
1.80	1.94	7.8	2.08	2.22
1.83	1.97	7.9	2.11	2.26
1.85	1.99	8.0	2.14	2.29
1.88	2.02	8.1	2.17	2.32
1.91	2.05	8.2	2.20	2.35
1.93	2.08	8.3	2.23	2.38

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
58	60		62	64
0.50	0.54	1.8	0.57	0.61
0.53	0.57	1.9	0.61	0.65
0.56	0.60	2.0	0.64	0.68
0.59	0.63	2.1	0.67	0.72
0.62	0.66	2.2	0.71	0.75
0.65	0.69	2.3	0.74	0.79
0.68	0.72	2.4	0.77	0.82
0.71	0.76	2.5	0.81	0.86
0.74	0.79	2.6	0.84	0.89
0.77	0.82	2.7	0.87	0.93
0.80	0.85	2.8	0.91	0.96
0.83	0.88	2.9	0.94	1.00
0.86	0.91	3.0	0.97	1.03
0.89	0.94	3.1	1.01	1.07
0.91	0.98	3.2	1.04	1.11
0.94	1.01	3.3	1.07	1.14
0.97	1.04	3.4	1.11	1.18
1.00	1.07	3.5	1.14	1.21
1.03	1.10	3.6	1.18	1.25
1.07	1.14	3.7	1.21	1.29
1.10	1.17	3.8	1.24	1.32
1.13	1.20	3.9	1.28	1.36
1.16	1.23	4.0	1.31	1.40
1.19	1.27	4.1	1.35	1.43
1.22	1.30	4.2	1.38	1.47
1.25	1.33	4.3	1.42	1.51
1.28	1.36	4.4	1.45	1.54
1.31	1.40	4.5	1.49	1.58
1.34	1.43	4.6	1.52	1.62
1.37	1.46	4.7	1.56	1.65
1.40	1.50	4.8	1.59	1.69
1.43	1.53	4.9	1.63	1.73
1.47	1.56	5.0	1.66	1.77

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
58	60		62	64
1.50	1.60	5.1	1.70	1.80
1.53	1.63	5.2	1.73	1.84
1.56	1.66	5.3	1.77	1.88
1.59	1.70	5.4	1.81	1.92
1.62	1.73	5.5	1.84	1.96
1.65	1.76	5.6	1.88	1.99
1.69	1.80	5.7	1.91	2.03
1.72	1.83	5.8	1.95	2.07
1.75	1.87	5.9	1.99	2.11
1.78	1.90	6.0	2.02	2.15
1.81	1.93	6.1	2.06	2.19
1.85	1.97	6.2	2.09	2.22
1.88	2.00	6.3	2.13	2.26
1.91	2.04	6.4	2.17	2.30
1.94	2.07	6.5	2.20	2.34
1.98	2.11	6.6	2.24	2.38
2.01	2.14	6.7	2.28	2.42
2.04	2.18	6.8	2.31	2.46
2.07	2.21	6.9	2.35	2.50
2.11	2.25	7.0	2.39	2.54
2.14	2.28	7.1	2.43	2.58
2.17	2.32	7.2	2.46	2.61
2.21	2.35	7.3	2.50	2.65
2.24	2.39	7.4	2.54	2.69
2.27	2.42	7.5	2.58	2.73
2.31	2.46	7.6	2.61	2.77
2.34	2.49	7.7	2.65	2.81
2.37	2.53	7.8	2.69	2.85
2.41	2.56	7.9	2.73	2.89
2.44	2.60	8.0	2.76	2.93
2.48	2.64	8.1	2.80	2.97
2.51	2.67	8.2	2.84	3.01
2.54	2.71	8.3	2.88	3.06

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
66	68		70	72
0.65	0.69	1.8	0.73	0.77
0.69	0.73	1.9	0.77	0.81
0.72	0.77	2.0	0.81	0.86
0.76	0.81	2.1	0.85	0.90
0.80	0.84	2.2	0.89	0.94
0.83	0.88	2.3	0.94	0.99
0.87	0.92	2.4	0.98	1.03
0.91	0.96	2.5	1.02	1.08
0.95	1.00	2.6	1.06	1.12
0.98	1.04	2.7	1.10	1.17
1.02	1.08	2.8	1.15	1.21
1.06	1.12	2.9	1.19	1.25
1.10	1.16	3.0	1.23	1.30
1.14	1.20	3.1	1.27	1.34
1.17	1.24	3.2	1.31	1.39
1.21	1.28	3.3	1.36	1.43
1.25	1.32	3.4	1.40	1.48
1.29	1.36	3.5	1.44	1.52
1.33	1.41	3.6	1.49	1.57
1.37	1.45	3.7	1.53	1.61
1.40	1.49	3.8	1.57	1.66
1.44	1.53	3.9	1.62	1.71
1.48	1.57	4.0	1.66	1.75
1.52	1.61	4.1	1.70	1.80
1.56	1.65	4.2	1.75	1.84
1.60	1.69	4.3	1.79	1.89
1.64	1.73	4.4	1.83	1.94
1.68	1.78	4.5	1.88	1.98
1.72	1.82	4.6	1.92	2.03
1.76	1.86	4.7	1.96	2.07
1.79	1.90	4.8	2.01	2.12
1.83	1.94	4.9	2.05	2.17
1.87	1.98	5.0	2.10	2.21

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
66	68		70	72
1.91	2.03	5.1	2.14	2.26
1.95	2.07	5.2	2.19	2.31
1.99	2.11	5.3	2.23	2.35
2.03	2.15	5.4	2.28	2.40
2.07	2.20	5.5	2.32	2.45
2.11	2.24	5.6	2.37	2.50
2.15	2.28	5.7	2.41	2.54
2.20	2.32	5.8	2.46	2.59
2.24	2.37	5.9	2.50	2.64
2.28	2.41	6.0	2.55	2.69
2.32	2.45	6.1	2.59	2.73
2.36	2.50	6.2	2.64	2.78
2.40	2.54	6.3	2.68	2.83
2.44	2.58	6.4	2.73	2.88
2.48	2.63	6.5	2.77	2.93
2.52	2.67	6.6	2.82	2.97
2.56	2.71	6.7	2.87	3.02
2.60	2.76	6.8	2.91	3.07
2.65	2.80	6.9	2.96	3.12
2.69	2.84	7.0	3.00	3.17
2.73	2.89	7.1	3.05	3.22
2.77	2.93	7.2	3.10	3.27
2.81	2.98	7.3	3.14	3.32
2.85	3.02	7.4	3.19	3.36
2.90	3.06	7.5	3.24	3.41
2.94	3.11	7.6	3.28	3.46
2.98	3.15	7.7	3.33	3.51
3.02	3.20	7.8	3.38	3.56
3.07	3.24	7.9	3.42	3.61
3.11	3.29	8.0	3.47	3.66
3.15	3.33	8.1	3.52	3.71
3.19	3.38	8.2	3.57	3.76
3.24	3.42	8.3	3.61	3.81

Top-diam.

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
74	76		78	80
0.81	0.85	1.8	0.90	0.94
0.86	0.90	1.9	0.95	1.00
0.90	0.95	2.0	1.00	1.05
0.95	1.00	2.1	1.05	1.11
1.00	1.05	2.2	1.10	1.16
1.04	1.10	2.3	1.15	1.21
1.09	1.15	2.4	1.21	1.27
1.14	1.20	2.5	1.26	1.32
1.18	1.25	2.6	1.31	1.38
1.23	1.29	2.7	1.36	1.43
1.28	1.34	2.8	1.41	1.48
1.32	1.39	2.9	1.47	1.54
1.37	1.44	3.0	1.52	1.59
1.42	1.49	3.1	1.57	1.65
1.46	1.54	3.2	1.62	1.70
1.51	1.59	3.3	1.67	1.76
1.56	1.64	3.4	1.73	1.81
1.61	1.69	3.5	1.78	1.87
1.65	1.74	3.6	1.83	1.92
1.70	1.79	3.7	1.89	1.98
1.75	1.84	3.8	1.94	2.04
1.80	1.89	3.9	1.99	2.09
1.85	1.94	4.0	2.04	2.15
1.89	1.99	4.1	2.10	2.20
1.94	2.05	4.2	2.15	2.26
1.99	2.10	4.3	2.20	2.31
2.04	2.15	4.4	2.26	2.37
2.09	2.20	4.5	2.31	2.43
2.14	2.25	4.6	2.37	2.48
2.19	2.30	4.7	2.42	2.54
2.24	2.35	4.8	2.47	2.60
2.28	2.40	4.9	2.53	2.65
2.33	2.46	5.0	2.58	2.71

Volume in Cubic Metres

Top-diameter in Centimetres		Length in Metres	Top-diameter in Centimetres	
74	76		78	80
2.38	2.51	5.1	2.64	2.77
2.43	2.56	5.2	2.69	2.82
2.48	2.61	5.3	2.75	2.88
2.53	2.66	5.4	2.80	2.94
2.58	2.72	5.5	2.85	3.00
2.63	2.77	5.6	2.91	3.05
2.68	2.82	5.7	2.96	3.11
2.73	2.87	5.8	3.02	3.17
2.78	2.93	5.9	3.07	3.23
2.83	2.98	6.0	3.13	3.29
2.88	3.03	6.1	3.19	3.34
2.93	3.08	6.2	3.24	3.40
2.98	3.14	6.3	3.30	3.46
3.03	3.19	6.4	3.35	3.52
3.08	3.24	6.5	3.41	3.58
3.13	3.30	6.6	3.46	3.64
3.18	3.35	6.7	3.52	3.69
3.24	3.40	6.8	3.58	3.75
3.29	3.46	6.9	3.63	3.81
3.34	3.51	7.0	3.69	3.87
3.39	3.57	7.1	3.75	3.93
3.44	3.62	7.2	3.80	3.99
3.49	3.67	7.3	3.86	4.05
3.54	3.73	7.4	3.92	4.11
3.60	3.78	7.5	3.97	4.17
3.65	3.84	7.6	4.03	4.23
3.70	3.89	7.7	4.09	4.29
3.75	3.95	7.8	4.14	4.35
3.80	4.00	7.9	4.20	4.41
3.86	4.05	8.0	4.26	4.47
3.91	4.11	8.1	4.32	4.53
3.96	4.16	8.2	4.37	4.59
4.01	4.22	8.3	4.43	4.65

BARK

Under Bark top diameter cm	Bark as percentage of underbark volume						
	Scots pine	Corsican pine	Sitka spruce	Norway spruce	European larch	Japanese larch	Douglas fir
10	16½	25½	13½	10	25	20½	16½
15	14	20½	11	10	22	18½	14
20	14	18½	10	9½	20½	16½	13
25	15½	18½	9	9	20	16½	13
30	17½	19½	8½	8½	20½	16½	13½
35	19½	21	8	8	21	16½	13½
40	21½	22	7½	7½	21½	16½	14
50	23½	24	7	6½	22½	17½	14½
60	25	25½	7	6	23½	18½	15
70	26	26½	6½	6	24½	19½	15
80	27	27½	6½	6	25	19½	15½

Notes

- (i) It is important to note that the above values are percentages of *underbark* volume. To convert underbark volumes to overbark volumes, merely add the appropriate percentage (p) of the underbark volume.
 i.e. o.b. vol. = u.b. vol. x $\frac{(100 + p)}{100}$
- (ii) The table is applicable only to the range of log lengths covered by the sawlog tables.
- (iii) *Other species*
 For Lodgepole pine use Scots pine bark percentages.
 For other pines use Corsican pine bark percentages.
 For Western hemlock }
 For Red cedar } use Sitka spruce bark percentages
 For Grand fir }
 For Noble fir }
 For Omorika spruce }

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