Ecologically Based Individual Tree Volume Estimation for Major Alberta Tree Species

Report # 4

Ecologically Based Individual Tree Volume Tables for

Balsam Fir (*Abies balsamea* (L.) Mill.)

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3). Tamarack (*Larix laricina* (Du Roi) K. Koch)
4). Engelmann spruce (*Picea engelmannii* Parry ex Engelm.)
5). Jack pine (*Pinus banksiana* Lamb.)

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1.0 INTRODUCTION

This report presents provincial and natural region based tables for predicting:

1). individual tree gross total volume (m^3),

2). gross merchantable volume (m^3) at designated utilization standards,

3). merchantable length (m) at designated utilization standards, and

4). number of trees per cubic metre of merchantable volume (trees/m^3)

for balsam fir (*Abies balsamea* (L.) Mill.) in Alberta. Natural regions of Alberta are listed in Appendix 1 and their locations are shown in Figure 1. A brief description of how to use these tables is illustrated here. Detailed explanations of the procedures for fitting of the equations and constructions of the tables are described in Report #1 of this series: Individual Tree Volume Estimation Procedures for Alberta: Methods of Formulation and Statistical Foundations. All equations and coefficients used to generate the tables are presented in Report #3 of this series: Summary of Equations and Estimated Coefficients for Ecologically Based Individual Tree Volume Estimation in Alberta.

Compared to the previously used volume estimation methods adopted by Alberta Land and Forest Services, ecologically based individual tree volume estimation has several distinct features including the following:

1. A taper equation is used to predict individual tree gross total volume, gross merchantable volume, merchantable length, and number of trees per cubic metre of merchantable volume (trees/m^3). Taper equations have been shown to provide more accurate volume predictions for major Alberta tree species. More recently, the use of taper equations for individual tree volume estimation has become an increasingly popular trend.

2. The relationships between tree height and tree diameter, diameter outside bark and inside bark,

stump diameter and breast height diameter are used in an integrated manner. This approach greatly facilitates volume estimation.

3. Natural regions are used instead of the Volume Sampling Regions (VSRs). Predictive relationships and volume tables were built on recently classified natural regions to reflect a refinement over previously defined VSR boundaries, and to emphasize the ever-increasing importance of ecology-based forest management in Alberta.

4. A new layout form of the volume tables was developed to facilitate practical use.

All tables presented here were created using values corresponding to the midpoints of 2.0 cm diameter classes and 2.0 m height classes. Tables or matrices of user-defined ranges can be created using the actual functions. Assistance with re-creating similar tables is available upon request.

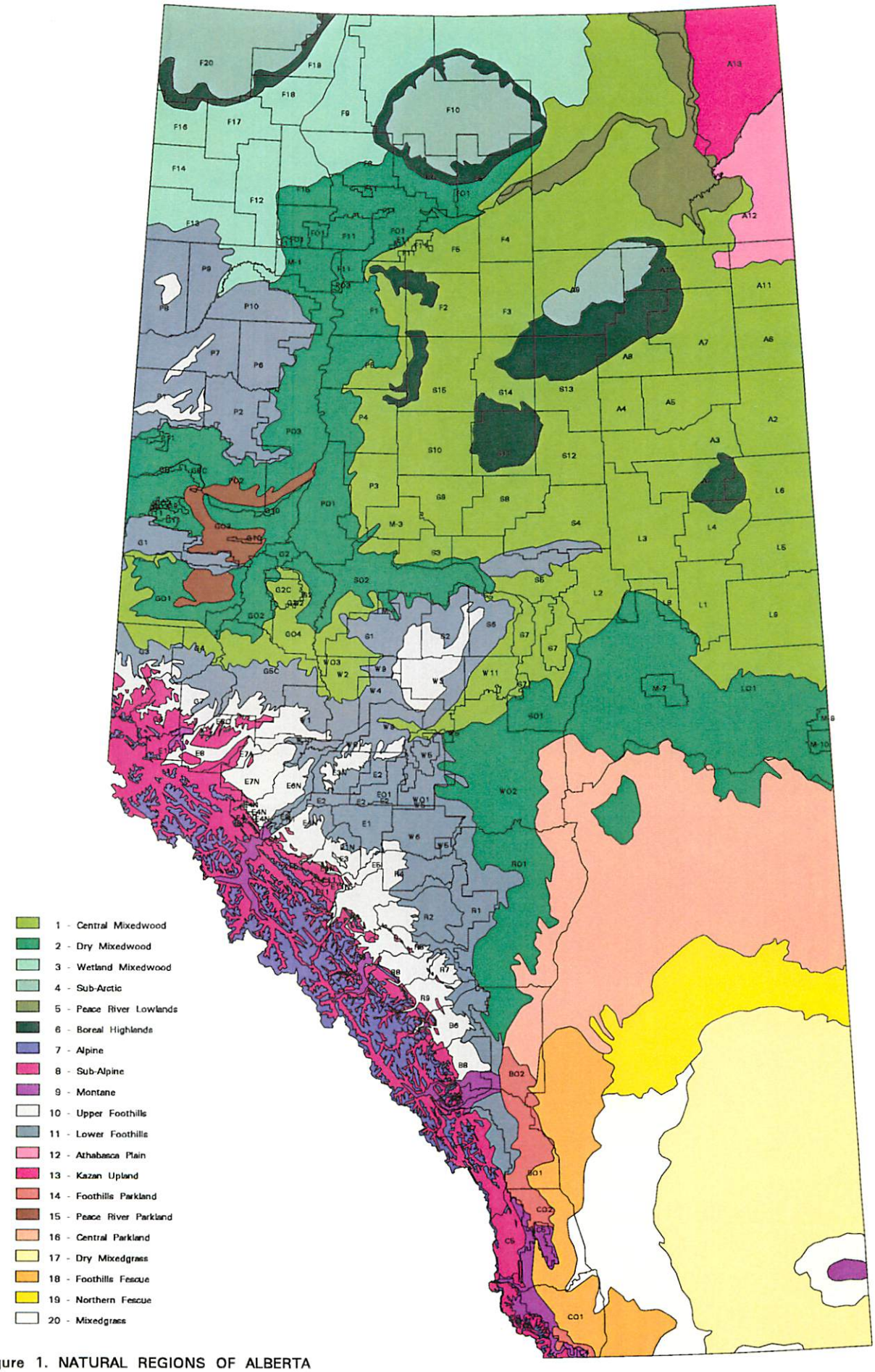

Figure 1. NATURAL REGIONS OF ALBERTA

Produced by Forest Resource Information Branch, Edmonton

Scale 1:5 000 000

2.0 USE OF THE TABLES

The format of each table represents an integrated use of the taper equation and the relationships between tree height and tree diameter, diameter outside bark and inside bark, stump diameter and breast height diameter. For example, in addition to its use as a standard volume table, the gross total volume table (Table 1) can also be used as a local volume table, a height-diameter prediction table, and a stump diameter and breast height diameter prediction table. Here are some of the most common uses of such a table (see Table 1):

1. Prediction of total tree height. From field measurement of tree diameter at breast height outside bark (DBHOB), total tree height (HT) can be predicted from the far right hand side column of the table. For example, if a tree has a DBHOB of 29.4 cm, predicted HT of the tree from Table 1 is 20.7 m.

2. Prediction of stump diameter outside bark (STUMP DOB). From field measurement of DBHOB, STUMP DOB can be predicted. For example, if a tree has a DBHOB of 29.4 cm, then the predicted STUMP DOB of the tree from Table 1 falls between 32.0 cm and 34.2 cm.

3. Prediction of tree diameter at breast height outside bark (DBHOB). From field measurement of STUMP DOB, DBHOB can be predicted. For example, if a tree has a STUMP DOB of 44.5 cm, predicted DBHOB of the tree from Table 1 falls between 39.1 cm and 41.0 cm.

4. Prediction of gross total volume from observed DBHOB and HT. Gross total volume (m^3) to 0.0 cm top diameter inside bark (*d*) and 0.00 m stump height can be read directly from Table 1, based on the field measurements of total tree height and diameter at breast height outside bark. For example, if a 29.4 cm (DBHOB) tree has a HT of 21.8 m, the gross total volume of the tree from

Table 1 is 0.6412 m^3.

5. Prediction of gross total volume from observed DBHOB and predicted HT. If the field measurement of tree height is not available, the far right-hand column of the table can be used to predict HT from field measurement of DBHOB. Based on the DBHOB and the predicted HT, gross total volume can be read from the table. For example, if a tree has a DBHOB of 29.4 cm, then the predicted HT of the tree will be 20.7 m. The gross total cubic metre volume of the tree from Table 1 is 0.5800 m^3, which is underlined for easy reading. In the absence of field measurement for tree heights, only the underlined values in the middle portion of the table, which represent the result of the average height-diameter relationship, are needed for estimating the gross total volumes (m^3) of the tree.

6. Prediction of gross total volume from observed stump diameter and HT. The second column from the left, in the standard table for gross total volume, represents stump diameter outside bark. If the field measurements of stump diameter and total tree height are available, gross total volume can be read from Table 1. For example, if a tree has a STUMP DOB of 23.2 cm and a HT of 15.8 m, the gross total volume of the tree from Table 1 is 0.2585 m^3.

7. Prediction of gross total volume from observed stump diameter and predicted HT. If the field measurement of stump diameter is all that is available, the far right-hand column of the table can be used to predict HT from STUMP DOB. Based on the STUMP DOB and the predicted HT, gross total volume (m^3) can be read from the table. For example, if a tree has a STUMP DOB of 23.2 cm, predicted HT of the tree from the far right-hand column of Table 1 is 17.4 m, and the gross total volume of the tree from Table 1 is 0.2926 m^3. Once again, in the absence of field measurements for tree height, only the underlined values in the middle portion of the table, which

represent the average height-diameter relationship, are needed for estimating the gross total volume.

Values in two corners of the tables indicate unlikely tree sizes. Tables for predicting merchantable volume, merchantable length, and trees/m^3 merchantable volume can be used in a similar manner.

8. Prediction of log volume. Tables for predicting merchantable volume and merchantable length can be used jointly to determine log volume. This can be achieved in two steps:

1). Decide the utilization standard. For example, a 15/11 utilization standard (minimum stump diameter outside bark = 15 cm, minimum top diameter inside bark = 11 cm) is used.

2). From stump diameter (or breast height diameter) and log length (in this case, log length is the merchantable length), use merchantable length tables to predict tree height. Having stump diameter and tree height, merchantable volume is predicted from the merchantable volume table at that utilization standard. Predicted merchantable volume is the log volume.

For example, if a log has a stump diameter of 35.0 cm and a length of 15.0 m, from the merchantable length table for 11.0 cm top dib (Table 25), a 35.0 stump diameter tree has a merchantable length of 14.97 m at height between 19.1 and 21.0. Hence, predicted total tree height from Table 25 is approximately between 19.1 and 21.0 m. From the stump diameter and predicted tree height, a merchantable volume of 0.6107 m^3 is read from the corresponding merchantable volume table (Table 7). Therefore this log has 0.6107 m^3 of volume at 15/11.

A separate manual on how to estimate log volume from taper equation is being prepared at this time. Interested readers may contact the Forest Resource Information Branch of Alberta Land and Forest Services for more details (Phone: 403 - 427 - 8401, Fax: 427 - 0084).

3.0 GROSS TOTAL VOLUME TABLES

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 1. Gross total volume (m^3) from 0.00 m stump height to 0.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
1.1- 3.0	2.3- 4.2	0.0007	0.0011	0.0014	0.0018	0.0022	0.0025	0.0029	0.0033	0.0036	0.0040	0.0044	0.0047	0.0051	0.0055	0.0058	0.0062	0.0066	0.0069	2.2
3.1- 5.0	4.3- 6.1	0.0028	0.0043	0.0057	0.0072	0.0087	0.0102	0.0117	0.0131	0.0146	0.0161	0.0176	0.0191	0.0206	0.0221	0.0236	0.0251	0.0265	0.0280	3.7
5.1- 7.0	6.2- 8.1	0.0058	0.0088	0.0119	0.0151	0.0182	0.0213	0.0244	0.0275	0.0306	0.0338	0.0369	0.0400	0.0432	0.0463	0.0494	0.0526	0.0557	0.0589	5.5
7.1- 9.0	8.2- 10.1	0.0096	0.0148	0.0200	0.0253	0.0305	0.0358	0.0411	0.0464	0.0516	0.0569	0.0622	0.0675	0.0728	0.0781	0.0835	0.0888	0.0941	0.0994	7.3
9.1-11.0	10.2- 12.2	0.0142	0.0220	0.0299	0.0378	0.0457	0.0536	0.0615	0.0695	0.0774	0.0854	0.0934	0.1013	0.1093	0.1173	0.1253	0.1333	0.1413	0.1493	9.1
11.1-13.0	12.3- 14.2	0.0196	0.0305	0.0414	0.0524	0.0635	0.0745	0.0856	0.0967	0.1079	0.1190	0.1301	0.1413	0.1524	0.1636	0.1748	0.1860	0.1972	0.2083	10.8
13.1-15.0	14.3- 16.3	0.0258	0.0402	0.0546	0.0692	0.0839	0.0986	0.1133	0.1280	0.1428	0.1576	0.1724	0.1872	0.2020	0.2169	0.2317	0.2466	0.2615	0.2763	12.4
15.1-17.0	16.4- 18.5	0.0327	0.0510	0.0695	0.0881	0.1068	0.1256	0.1445	0.1633	0.1822	0.2011	0.2201	0.2391	0.2580	0.2770	0.2960	0.3151	0.3341	0.3531	13.8
17.1-19.0	18.6- 20.6	0.0404	0.0630	0.0859	0.1090	0.1323	0.1556	0.1791	0.2025	0.2260	0.2496	0.2731	0.2967	0.3204	0.3440	0.3676	0.3913	0.4150	0.4387	15.1
19.1-21.0	20.7- 22.8	0.0488	0.0762	0.1039	0.1320	0.1603	0.1886	0.2171	0.2456	0.2742	0.3028	0.3315	0.3602	0.3890	0.4177	0.4465	0.4753	0.5041	0.5330	16.3
21.1-23.0	22.9- 25.0	0.0581	0.0905	0.1236	0.1570	0.1907	0.2245	0.2585	0.2926	0.3267	0.3609	0.3952	0.4295	0.4638	0.4982	0.5326	0.5670	0.6015	0.6359	17.4
23.1-25.0	25.1- 27.3	0.0681	0.1061	0.1448	0.1840	0.2236	0.2633	0.3033	0.3434	0.3835	0.4238	0.4641	0.5045	0.5449	0.5854	0.6259	0.6664	0.7070	0.7476	18.4
25.1-27.0	27.4- 29.5	0.0790	0.1228	0.1676	0.2130	0.2589	0.3051	0.3515	0.3980	0.4447	0.4915	0.5383	0.5852	0.6322	0.6793	0.7264	0.7735	0.8207	0.8679	19.2
27.1-29.0	29.7- 31.8	0.0907	0.1407	0.1920	0.2441	0.2967	0.3498	0.4031	0.4565	0.5102	0.5639	0.6178	0.6718	0.7258	0.7799	0.8341	0.8883	0.9425	0.9969	20.0
29.1-31.0	32.0- 34.2	0.1034	0.1600	0.2181	0.2772	0.3371	0.3974	0.4580	0.5189	0.5800	0.6412	0.7026	0.7641	0.8257	0.8873	0.9490	1.0108	1.0727	1.1346	20.7
31.1-33.0	34.3- 36.5	0.1169	0.1804	0.2458	0.3124	0.3799	0.4479	0.5164	0.5852	0.6542	0.7234	0.7927	0.8622	0.9318	1.0015	1.0713	1.1411	1.2110	1.2810	21.3
33.1-35.0	36.6- 38.9	0.1315	0.2023	0.2752	0.3497	0.4252	0.5015	0.5782	0.6553	0.7327	0.8103	0.8881	0.9661	1.0442	1.1225	1.2008	1.2792	1.3577	1.4363	21.8
35.1-37.0	39.0- 41.3	0.1471	0.2254	0.3064	0.3891	0.4731	0.5580	0.6435	0.7294	0.8156	0.9022	0.9890	1.0759	1.1630	1.2503	1.3377	1.4252	1.5128	1.6005	22.3
37.1-39.0	41.4- 43.8	0.1638	0.2500	0.3393	0.4307	0.5236	0.6176	0.7122	0.8074	0.9030	0.9990	1.0952	1.1916	1.2883	1.3851	1.4820	1.5791	1.6762	1.7735	22.7
39.1-41.0	43.9- 46.2	0.1816	0.2760	0.3740	0.4745	0.5767	0.6802	0.7845	0.8894	0.9949	1.1007	1.2069	1.3133	1.4199	1.5268	1.6338	1.7409	1.8482	1.9556	23.0
41.1-43.0	46.4- 48.7	0.2006	0.3035	0.4105	0.5205	0.6325	0.7459	0.8603	0.9755	1.0912	1.2074	1.3240	1.4409	1.5581	1.6755	1.7930	1.9108	2.0287	2.1467	23.4
43.1-45.0	48.9- 51.3	0.2208	0.3326	0.4490	0.5688	0.6910	0.8148	0.9398	1.0656	1.1922	1.3192	1.4467	1.5746	1.7028	1.8312	1.9599	2.0887	2.2178	2.3470	23.6
45.1-47.0	51.4- 53.8	0.2424	0.3633	0.4894	0.6194	0.7522	0.8868	1.0228	1.1599	1.2977	1.4361	1.5751	1.7144	1.8541	1.9941	2.1344	2.2749	2.4156	2.5565	23.9
47.1-49.0	53.9- 56.4	0.2653	0.3957	0.5318	0.6724	0.8162	0.9621	1.1096	1.2583	1.4079	1.5582	1.7090	1.8604	2.0121	2.1642	2.3166	2.4693	2.6222	2.7753	24.1
49.1-51.0	56.5- 59.0	0.2897	0.4297	0.5762	0.7278	0.8830	1.0407	1.2001	1.3609	1.5228	1.6854	1.8487	2.0126	2.1769	2.3416	2.5067	2.6720	2.8377	3.0035	24.3
51.1-53.0	59.1- 61.6	0.3157	0.4656	0.6228	0.7857	0.9528	1.1226	1.2944	1.4678	1.6424	1.8179	1.9942	2.1711	2.3485	2.5264	2.7046	2.8832	3.0621	3.2412	24.5
53.1-55.0	61.8- 64.3	0.3433	0.5034	0.6715	0.8462	1.0254	1.2079	1.3926	1.5791	1.7669	1.9558	2.1455	2.3360	2.5270	2.7186	2.9105	3.1029	3.2956	3.4886	24.6
55.1-57.0	64.4- 67.0	0.3725	0.5431	0.7225	0.9093	1.1011	1.2966	1.4947	1.6948	1.8963	2.0991	2.3028	2.5073	2.7125	2.9183	3.1245	3.3312	3.5382	3.7456	24.7
57.1-59.0	67.1- 69.7	0.4036	0.5849	0.7758	0.9750	1.1799	1.3889	1.6008	1.8149	2.0307	2.2478	2.4660	2.6852	2.9051	3.1256	3.3466	3.5682	3.7902	4.0125	24.9
59.1-61.0	69.9- 72.5	0.4366	0.6287	0.8315	1.0435	1.2618	1.4847	1.7109	1.9395	2.1701	2.4021	2.6354	2.8696	3.1048	3.3406	3.5770	3.8140	4.0515	4.2893	24.9
61.1-63.0	72.6- 75.3	0.4716	0.6748	0.8897	1.1148	1.3470	1.5842	1.8251	2.0688	2.3146	2.5620	2.8109	3.0608	3.3117	3.5634	3.8158	4.0687	4.3222	4.5762	25.0
63.1-65.0	75.4- 78.1	0.5086	0.7231	0.9504	1.1890	1.4354	1.6874	1.9435	2.2027	2.4642	2.7276	2.9926	3.2588	3.5260	3.7941	4.0630	4.3325	4.6026	4.8732	25.1
65.1-67.0	78.2- 80.9	0.5479	0.7738	1.0138	1.2661	1.5272	1.7944	2.0662	2.3414	2.6192	2.8991	3.1806	3.4636	3.7477	4.0328	4.3187	4.6054	4.8927	5.1806	25.2
67.1-69.0	81.0- 83.8	0.5895	0.8270	1.0798	1.3463	1.6224	1.9053	2.1932	2.4849	2.7795	3.0764	3.3751	3.6754	3.9769	4.2796	4.5832	4.8875	5.1926	5.4984	25.2
69.1-71.0	83.9- 86.7	0.6336	0.8828	1.1487	1.4296	1.7211	2.0202	2.3247	2.6333	2.9452	3.2596	3.5761	3.8942	4.2138	4.5346	4.8564	5.1791	5.5025	5.8267	25.3
71.1-73.0	86.8- 89.6	0.6802	0.9413	1.2205	1.5162	1.8235	2.1390	2.4606	2.7868	3.1165	3.4489	3.7837	4.1203	4.4584	4.7979	5.1385	5.4801	5.8225	6.1657	25.3
73.1-75.0	89.7- 92.5	0.7295	1.0026	1.2953	1.6061	1.9295	2.2620	2.6012	2.9453	3.2933	3.6444	3.9979	4.3535	4.7109	5.0696	5.4296	5.7907	6.1527	6.5156	25.4
75.1-77.0	92.7- 95.5	0.7818	1.0668	1.3732	1.6993	2.0393	2.3893	2.7464	3.1090	3.4759	3.8461	4.2190	4.5942	4.9713	5.3499	5.7299	6.1111	6.4933	6.8764	25.4
77.1-79.0	95.6- 98.5	0.8370	1.1341	1.4543	1.7961	2.1530	2.5208	2.8964	3.2780	3.6642	4.0542	4.4470	4.8424	5.2398	5.6389	6.0395	6.4414	6.8444	7.2484	25.4
79.1-81.0	98.7-101.5	0.8954	1.2045	1.5388	1.8965	2.2707	2.6567	3.0513	3.4524	3.8585	4.2687	4.6821	5.0981	5.5164	5.9366	6.3585	6.7817	7.2061	7.6316	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

Table 2. Gross total volume (m^3) from 0.00 m stump height to 0.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
1.1- 3.0	1.8- 3.7	0.0005	0.0007	0.0009	0.0011	0.0013	0.0016	0.0018	0.0020	0.0023	0.0025	0.0027	0.0029	0.0032	0.0034	0.0036	0.0038	0.0041	0.0043	2.3
3.1- 5.0	3.9- 5.8	0.0023	0.0036	0.0048	0.0060	0.0073	0.0085	0.0098	0.0110	0.0123	0.0135	0.0148	0.0161	0.0173	0.0186	0.0198	0.0211	0.0224	0.0236	3.9
5.1- 7.0	5.9- 7.9	0.0050	0.0078	0.0106	0.0133	0.0161	0.0189	0.0217	0.0245	0.0273	0.0301	0.0329	0.0358	0.0386	0.0414	0.0442	0.0470	0.0498	0.0527	5.6
7.1- 9.0	8.0- 10.1	0.0087	0.0135	0.0183	0.0232	0.0280	0.0329	0.0378	0.0427	0.0477	0.0526	0.0575	0.0624	0.0674	0.0723	0.0773	0.0822	0.0872	0.0921	7.4
9.1-11.0	10.2- 12.2	0.0132	0.0205	0.0279	0.0353	0.0428	0.0504	0.0579	0.0654	0.0730	0.0806	0.0882	0.0958	0.1034	0.1110	0.1186	0.1263	0.1339	0.1415	9.1
11.1-13.0	12.3- 14.4	0.0185	0.0287	0.0392	0.0497	0.0604	0.0710	0.0817	0.0924	0.1032	0.1139	0.1247	0.1355	0.1463	0.1571	0.1679	0.1787	0.1896	0.2004	10.8
13.1-15.0	14.5- 16.6	0.0245	0.0382	0.0522	0.0663	0.0805	0.0947	0.1091	0.1234	0.1378	0.1523	0.1667	0.1812	0.1957	0.2102	0.2247	0.2392	0.2538	0.2684	12.4
15.1-17.0	16.7- 18.8	0.0314	0.0489	0.0667	0.0848	0.1030	0.1214	0.1398	0.1583	0.1768	0.1954	0.2140	0.2326	0.2513	0.2700	0.2887	0.3074	0.3261	0.3449	13.9
17.1-19.0	18.9- 21.0	0.0391	0.0607	0.0828	0.1052	0.1279	0.1507	0.1737	0.1967	0.2198	0.2430	0.2662	0.2895	0.3128	0.3361	0.3595	0.3829	0.4063	0.4297	15.3
19.1-21.0	21.1- 23.3	0.0476	0.0736	0.1003	0.1275	0.1550	0.1827	0.2107	0.2387	0.2668	0.2950	0.3232	0.3516	0.3799	0.4083	0.4368	0.4653	0.4938	0.5223	16.6
21.1-23.0	23.4- 25.6	0.0569	0.0876	0.1192	0.1515	0.1842	0.2173	0.2505	0.2839	0.3174	0.3511	0.3848	0.4186	0.4524	0.4863	0.5203	0.5543	0.5884	0.6225	17.8
23.1-25.0	25.7- 27.9	0.0670	0.1027	0.1395	0.1772	0.2155	0.2542	0.2931	0.3323	0.3716	0.4110	0.4506	0.4903	0.5300	0.5699	0.6097	0.6497	0.6897	0.7297	18.9
25.1-27.0	28.0- 30.2	0.0780	0.1189	0.1612	0.2046	0.2487	0.2934	0.3384	0.3836	0.4291	0.4748	0.5206	0.5665	0.6125	0.6586	0.7048	0.7510	0.7974	0.8437	19.9
27.1-29.0	30.3- 32.6	0.0899	0.1361	0.1842	0.2336	0.2838	0.3347	0.3861	0.4378	0.4898	0.5420	0.5944	0.6469	0.6996	0.7523	0.8052	0.8581	0.9112	0.9643	20.9
29.1-31.0	32.7- 34.9	0.1028	0.1546	0.2085	0.2641	0.3208	0.3782	0.4363	0.4948	0.5536	0.6126	0.6719	0.7314	0.7910	0.8508	0.9107	0.9707	1.0308	1.0909	21.7
31.1-33.0	35.0- 37.3	0.1166	0.1741	0.2341	0.2961	0.3595	0.4238	0.4888	0.5543	0.6202	0.6865	0.7530	0.8198	0.8867	0.9538	1.0210	1.0884	1.1559	1.2235	22.5
33.1-35.0	37.4- 39.7	0.1315	0.1948	0.2610	0.3296	0.3999	0.4713	0.5435	0.6163	0.6897	0.7634	0.8375	0.9118	0.9864	1.0611	1.1360	1.2111	1.2863	1.3616	23.2
35.1-37.0	39.8- 42.2	0.1474	0.2166	0.2892	0.3646	0.4419	0.5206	0.6003	0.6808	0.7618	0.8433	0.9252	1.0073	1.0898	1.1725	1.2554	1.3384	1.4217	1.5050	23.8
37.1-39.0	42.3- 44.6	0.1645	0.2397	0.3187	0.4010	0.4856	0.5719	0.6592	0.7475	0.8364	0.9259	1.0159	1.1062	1.1968	1.2878	1.3789	1.4702	1.5618	1.6535	24.4
39.1-41.0	44.7- 47.1	0.1828	0.2639	0.3495	0.4389	0.5309	0.6248	0.7201	0.8164	0.9135	1.0113	1.1095	1.2083	1.3073	1.4067	1.5064	1.6063	1.7064	1.8067	25.0
41.1-43.0	47.2- 49.6	0.2023	0.2895	0.3816	0.4782	0.5778	0.6795	0.7829	0.8874	0.9929	1.0991	1.2060	1.3133	1.4211	1.5292	1.6377	1.7464	1.8553	1.9645	25.4
43.1-45.0	49.7- 52.1	0.2232	0.3163	0.4151	0.5189	0.6261	0.7359	0.8475	0.9605	1.0745	1.1895	1.3051	1.4213	1.5379	1.6550	1.7725	1.8903	2.0083	2.1266	25.9
45.1-47.0	52.3- 54.7	0.2454	0.3445	0.4499	0.5610	0.6760	0.7939	0.9139	1.0355	1.1583	1.2821	1.4067	1.5319	1.6577	1.7840	1.9107	2.0378	2.1652	2.2928	26.3
47.1-49.0	54.8- 57.2	0.2691	0.3740	0.4860	0.6044	0.7274	0.8535	0.9821	1.1124	1.2441	1.3769	1.5107	1.6452	1.7803	1.9160	2.0522	2.1887	2.3256	2.4629	26.6
49.1-51.0	57.4- 59.8	0.2944	0.4050	0.5235	0.6493	0.7802	0.9147	1.0519	1.1911	1.3319	1.4739	1.6170	1.7609	1.9056	2.0509	2.1967	2.3429	2.4896	2.6366	26.9
51.1-53.0	60.0- 62.4	0.3212	0.4374	0.5625	0.6956	0.8344	0.9774	1.1233	1.2715	1.4215	1.5730	1.7255	1.8791	2.0334	2.1884	2.3440	2.5002	2.6567	2.8137	27.2
53.1-55.0	62.6- 65.1	0.3498	0.4714	0.6028	0.7433	0.8901	1.0416	1.1963	1.3537	1.5130	1.6739	1.8361	1.9994	2.1636	2.3285	2.4941	2.6603	2.8270	2.9942	27.5
55.1-57.0	65.2- 67.7	0.3802	0.5069	0.6446	0.7923	0.9472	1.1072	1.2709	1.4375	1.6062	1.7767	1.9487	2.1219	2.2960	2.4711	2.6468	2.8232	3.0002	3.1777	27.7
57.1-59.0	67.9- 70.4	0.4124	0.5441	0.6878	0.8428	1.0057	1.1743	1.3470	1.5228	1.7011	1.8814	2.0632	2.2464	2.4307	2.6159	2.8020	2.9887	3.1761	3.3641	28.0
59.1-61.0	70.5- 73.1	0.4467	0.5830	0.7326	0.8948	1.0657	1.2428	1.4245	1.6097	1.7976	1.9877	2.1795	2.3728	2.5673	2.7629	2.9594	3.1567	3.3546	3.5532	28.1
61.1-63.0	73.3- 75.8	0.4830	0.6235	0.7789	0.9481	1.1270	1.3127	1.5035	1.6981	1.8956	2.0956	2.2975	2.5011	2.7059	2.9120	3.1190	3.3269	3.5355	3.7448	28.3
63.1-65.0	76.0- 78.6	0.5215	0.6659	0.8268	1.0029	1.1897	1.3840	1.5838	1.7879	1.9952	2.2051	2.4172	2.6310	2.8464	3.0630	3.2806	3.4993	3.7187	3.9389	28.5
65.1-67.0	78.7- 81.3	0.5623	0.7102	0.8763	1.0592	1.2538	1.4567	1.6656	1.8791	2.0962	2.3161	2.5384	2.7627	2.9885	3.2158	3.4442	3.6737	3.9040	4.1352	28.6
67.1-69.0	81.5- 84.1	0.6056	0.7564	0.9274	1.1170	1.3193	1.5307	1.7487	1.9717	2.1986	2.4286	2.6612	2.8959	3.1323	3.3703	3.6096	3.8500	4.0914	4.3336	28.8
69.1-71.0	84.3- 86.9	0.6514	0.8046	0.9802	1.1762	1.3862	1.6060	1.8331	2.0656	2.3023	2.5424	2.7854	3.0306	3.2777	3.5265	3.7766	4.0281	4.2805	4.5340	28.9
71.1-73.0	87.1- 89.8	0.6999	0.8549	1.0348	1.2370	1.4545	1.6827	1.9188	2.1607	2.4073	2.6576	2.9109	3.1667	3.4245	3.6841	3.9453	4.2078	4.4715	4.7361	29.0
73.1-75.0	89.9- 92.6	0.7512	0.9074	1.0911	1.2993	1.5242	1.7607	2.0058	2.2572	2.5136	2.7740	3.0377	3.3041	3.5727	3.8432	4.1154	4.3891	4.6640	4.9400	29.1
75.1-77.0	92.8- 95.5	0.8055	0.9621	1.1492	1.3632	1.5953	1.8401	2.0940	2.3549	2.6211	2.8917	3.1658	3.4428	3.7222	4.0037	4.2870	4.5718	4.8580	5.1454	29.2
77.1-79.0	95.7- 98.4	0.8629	1.0191	1.2091	1.4286	1.6678	1.9207	2.1835	2.4537	2.7298	3.0105	3.2950	3.5826	3.8729	4.1654	4.4598	4.7559	5.0534	5.3522	29.2
79.1-81.0	98.6-101.3	0.9236	1.0785	1.2710	1.4957	1.7418	2.0027	2.2742	2.5538	2.8396	3.1305	3.4254	3.7237	4.0247	4.3282	4.6338	4.9411	5.2501	5.5604	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 3. Gross total volume (m^3) from 0.00 m stump height to 0.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
1.1- 3.0	2.1- 4.0	0.0006	0.0008	0.0011	0.0014	0.0016	0.0019	0.0022	0.0025	0.0027	0.0030	0.0033	0.0036	0.0038	0.0041	0.0044	0.0047	0.0049	0.0052	2.2
3.1- 5.0	4.1- 6.0	0.0025	0.0038	0.0052	0.0065	0.0078	0.0092	0.0105	0.0118	0.0132	0.0145	0.0158	0.0172	0.0185	0.0199	0.0212	0.0225	0.0239	0.0252	3.8
5.1- 7.0	6.1- 8.0	0.0054	0.0083	0.0111	0.0140	0.0169	0.0198	0.0227	0.0256	0.0285	0.0314	0.0343	0.0372	0.0401	0.0430	0.0459	0.0488	0.0517	0.0547	5.6
7.1- 9.0	8.1- 10.1	0.0092	0.0141	0.0190	0.0240	0.0290	0.0340	0.0390	0.0439	0.0490	0.0540	0.0590	0.0640	0.0690	0.0740	0.0790	0.0841	0.0891	0.0941	7.4
9.1-11.0	10.2- 12.2	0.0138	0.0213	0.0288	0.0364	0.0440	0.0516	0.0592	0.0668	0.0744	0.0820	0.0897	0.0973	0.1050	0.1126	0.1203	0.1280	0.1356	0.1433	9.2
11.1-13.0	12.3- 14.3	0.0192	0.0298	0.0404	0.0510	0.0617	0.0724	0.0832	0.0939	0.1047	0.1154	0.1262	0.1370	0.1478	0.1586	0.1694	0.1802	0.1910	0.2019	10.9
13.1-15.0	14.4- 16.4	0.0255	0.0395	0.0537	0.0679	0.0822	0.0965	0.1108	0.1252	0.1396	0.1540	0.1684	0.1828	0.1972	0.2117	0.2262	0.2406	0.2551	0.2696	12.5
15.1-17.0	16.5- 18.6	0.0325	0.0505	0.0686	0.0869	0.1052	0.1236	0.1420	0.1605	0.1790	0.1975	0.2161	0.2346	0.2532	0.2718	0.2904	0.3090	0.3276	0.3463	14.0
17.1-19.0	18.7- 20.8	0.0402	0.0626	0.0852	0.1080	0.1308	0.1538	0.1768	0.1998	0.2229	0.2460	0.2691	0.2923	0.3155	0.3387	0.3619	0.3852	0.4084	0.4317	15.3
19.1-21.0	20.9- 23.0	0.0488	0.0759	0.1034	0.1311	0.1589	0.1869	0.2149	0.2430	0.2711	0.2993	0.3275	0.3557	0.3840	0.4123	0.4407	0.4690	0.4974	0.5258	16.5
21.1-23.0	23.1- 25.2	0.0581	0.0903	0.1231	0.1562	0.1894	0.2228	0.2563	0.2899	0.3236	0.3573	0.3910	0.4248	0.4587	0.4925	0.5264	0.5603	0.5943	0.6283	17.6
23.1-25.0	25.3- 27.4	0.0681	0.1059	0.1444	0.1832	0.2223	0.2616	0.3010	0.3406	0.3802	0.4199	0.4596	0.4994	0.5393	0.5792	0.6191	0.6590	0.6990	0.7391	18.6
25.1-27.0	27.6- 29.7	0.0789	0.1227	0.1672	0.2122	0.2576	0.3032	0.3490	0.3949	0.4409	0.4871	0.5332	0.5795	0.6258	0.6722	0.7186	0.7650	0.8115	0.8581	19.5
27.1-29.0	29.8- 32.0	0.0905	0.1405	0.1915	0.2431	0.2951	0.3475	0.4001	0.4528	0.5057	0.5587	0.6118	0.6649	0.7182	0.7715	0.8248	0.8782	0.9316	0.9851	20.2
29.1-31.0	32.1- 34.4	0.1029	0.1595	0.2172	0.2758	0.3350	0.3945	0.4543	0.5143	0.5745	0.6347	0.6952	0.7557	0.8162	0.8769	0.9376	0.9984	1.0593	1.1201	20.9
31.1-33.0	34.5- 36.7	0.1161	0.1796	0.2445	0.3105	0.3771	0.4442	0.5116	0.5793	0.6471	0.7152	0.7833	0.8516	0.9200	0.9884	1.0570	1.1256	1.1943	1.2630	21.5
33.1-35.0	36.8- 39.1	0.1302	0.2009	0.2733	0.3469	0.4214	0.4965	0.5719	0.6477	0.7237	0.7999	0.8762	0.9527	1.0293	1.1060	1.1828	1.2597	1.3367	1.4137	22.1
35.1-37.0	39.2- 41.5	0.1451	0.2233	0.3035	0.3853	0.4680	0.5514	0.6352	0.7195	0.8040	0.8888	0.9738	1.0589	1.1441	1.2295	1.3150	1.4006	1.4863	1.5720	22.6
37.1-39.0	41.6- 43.9	0.1609	0.2469	0.3353	0.4254	0.5167	0.6089	0.7016	0.7947	0.8882	0.9819	1.0759	1.1701	1.2644	1.3589	1.4535	1.5482	1.6431	1.7380	23.0
39.1-41.0	44.0- 46.4	0.1776	0.2716	0.3685	0.4674	0.5677	0.6689	0.7708	0.8732	0.9761	1.0792	1.1826	1.2863	1.3901	1.4941	1.5982	1.7025	1.8069	1.9114	23.4
41.1-43.0	46.5- 48.8	0.1952	0.2976	0.4032	0.5112	0.6208	0.7315	0.8430	0.9551	1.0677	1.1806	1.2939	1.4074	1.5211	1.6351	1.7492	1.8634	1.9778	2.0923	23.7
43.1-45.0	49.0- 51.3	0.2139	0.3248	0.4394	0.5568	0.6761	0.7966	0.9181	1.0402	1.1629	1.2861	1.4096	1.5334	1.6574	1.7817	1.9062	2.0308	2.1556	2.2805	24.0
45.1-47.0	51.5- 53.9	0.2335	0.3533	0.4772	0.6043	0.7335	0.8642	0.9960	1.1286	1.2619	1.3956	1.5297	1.6642	1.7990	1.9340	2.0692	2.2047	2.3403	2.4761	24.2
47.1-49.0	54.0- 56.4	0.2541	0.3830	0.5165	0.6535	0.7931	0.9343	1.0768	1.2202	1.3644	1.5091	1.6543	1.7998	1.9457	2.0919	2.2383	2.3850	2.5318	2.6788	24.4
49.1-51.0	56.6- 59.0	0.2759	0.4140	0.5573	0.7047	0.8548	1.0070	1.1605	1.3151	1.4705	1.6266	1.7831	1.9402	2.0976	2.2553	2.4133	2.5716	2.7301	2.8888	24.6
51.1-53.0	59.1- 61.6	0.2987	0.4463	0.5997	0.7576	0.9187	1.0821	1.2470	1.4131	1.5802	1.7480	1.9164	2.0853	2.2546	2.4242	2.5942	2.7645	2.9350	3.1058	24.8
53.1-55.0	61.7- 64.2	0.3228	0.4800	0.6436	0.8124	0.9848	1.1597	1.3363	1.5143	1.6934	1.8733	2.0539	2.2350	2.4166	2.5986	2.7810	2.9637	3.1467	3.3299	25.0
55.1-57.0	64.4- 66.9	0.3480	0.5151	0.6892	0.8691	1.0530	1.2397	1.4285	1.6187	1.8101	2.0025	2.1956	2.3894	2.5837	2.7784	2.9736	3.1691	3.3649	3.5609	25.1
57.1-59.0	67.0- 69.5	0.3745	0.5516	0.7364	0.9277	1.1234	1.3223	1.5234	1.7262	1.9304	2.1356	2.3416	2.5484	2.7557	2.9636	3.1719	3.3806	3.5896	3.7990	25.2
59.1-61.0	69.7- 72.2	0.4023	0.5896	0.7853	0.9882	1.1960	1.4073	1.6211	1.8369	2.0541	2.2725	2.4918	2.7120	2.9327	3.1541	3.3759	3.5982	3.8209	4.0439	25.3
61.1-63.0	72.4- 75.0	0.4314	0.6290	0.8358	1.0505	1.2707	1.4948	1.7217	1.9507	2.1813	2.4132	2.6462	2.8801	3.1147	3.3499	3.5857	3.8219	4.0586	4.2956	25.4
63.1-65.0	75.1- 77.7	0.4619	0.6700	0.8881	1.1148	1.3477	1.5848	1.8250	2.0676	2.3120	2.5578	2.8048	3.0528	3.3015	3.5510	3.8010	4.0516	4.3027	4.5541	25.5
65.1-67.0	77.9- 80.5	0.4939	0.7125	0.9420	1.1811	1.4268	1.6773	1.9311	2.1876	2.4461	2.7061	2.9675	3.2299	3.4932	3.7573	4.0220	4.2873	4.5531	4.8194	25.6
67.1-69.0	80.6- 83.3	0.5274	0.7567	0.9978	1.2493	1.5082	1.7722	2.0401	2.3108	2.5836	2.8583	3.1343	3.4116	3.6898	3.9688	4.2486	4.5290	4.8099	5.0914	25.6
69.1-71.0	83.4- 86.1	0.5625	0.8025	1.0553	1.3195	1.5918	1.8697	2.1518	2.4370	2.7246	3.0142	3.3053	3.5977	3.8911	4.1855	4.4807	4.7766	5.0730	5.3700	25.7
71.1-73.0	86.2- 88.9	0.5992	0.8500	1.1147	1.3917	1.6776	1.9697	2.2663	2.5663	2.8690	3.1738	3.4803	3.7882	4.0973	4.4074	4.7183	5.0300	5.3424	5.6553	25.7
73.1-75.0	89.1- 91.8	0.6376	0.8993	1.1759	1.4660	1.7657	2.0722	2.3836	2.6988	3.0168	3.3372	3.6594	3.9832	4.3082	4.6343	4.9614	5.2893	5.6179	5.9472	25.8
75.1-77.0	92.0- 94.7	0.6778	0.9504	1.2390	1.5423	1.8561	2.1772	2.5037	2.8343	3.1681	3.5043	3.8426	4.1825	4.5239	4.8664	5.2100	5.5544	5.8997	6.2456	25.8
77.1-79.0	94.9- 97.6	0.7198	1.0033	1.3041	1.6208	1.9488	2.2848	2.6267	2.9730	3.3227	3.6751	4.0298	4.3863	4.7443	5.1036	5.4640	5.8253	6.1876	6.5505	25.8
79.1-81.0	97.8-100.6	0.7637	1.0582	1.3711	1.7013	2.0438	2.3949	2.7524	3.1147	3.4807	3.8497	4.2211	4.5944	4.9694	5.3458	5.7234	6.1020	6.4816	6.8620	25.9

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

4.0 MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 7, 8, 10

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 4. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	6.2- 8.1	0.0029	0.0049	0.0069	0.0090	0.0110	0.0130	0.0151	0.0172	0.0192	0.0213	0.0233	0.0254	0.0275	0.0295	0.0316	0.0337	0.0358	0.0378	5.5
7.1- 9.0	8.2- 10.1	0.0067	0.0112	0.0158	0.0204	0.0250	0.0296	0.0342	0.0388	0.0434	0.0480	0.0527	0.0573	0.0619	0.0665	0.0712	0.0758	0.0805	0.0851	7.3
9.1-11.0	10.2- 12.2	0.0108	0.0181	0.0254	0.0328	0.0402	0.0476	0.0551	0.0625	0.0699	0.0774	0.0848	0.0923	0.0998	0.1072	0.1147	0.1222	0.1297	0.1372	9.1
11.1-13.0	12.3- 14.2	0.0153	0.0258	0.0363	0.0469	0.0575	0.0682	0.0788	0.0895	0.1002	0.1109	0.1216	0.1323	0.1431	0.1538	0.1646	0.1753	0.1861	0.1968	10.8
13.1-15.0	14.3- 16.3	0.0203	0.0344	0.0485	0.0628	0.0771	0.0914	0.1058	0.1201	0.1345	0.1489	0.1633	0.1778	0.1922	0.2067	0.2212	0.2357	0.2501	0.2646	12.4
15.1-17.0	16.4- 18.5	0.0258	0.0439	0.0621	0.0805	0.0989	0.1173	0.1358	0.1544	0.1729	0.1915	0.2101	0.2287	0.2473	0.2660	0.2847	0.3033	0.3220	0.3407	13.8
17.1-19.0	18.6- 20.6	0.0318	0.0543	0.0770	0.0999	0.1229	0.1459	0.1691	0.1922	0.2154	0.2386	0.2618	0.2851	0.3084	0.3317	0.3551	0.3784	0.4018	0.4252	15.1
19.1-21.0	20.7- 22.8	0.0383	0.0656	0.0933	0.1212	0.1492	0.1773	0.2054	0.2337	0.2620	0.2903	0.3186	0.3470	0.3755	0.4039	0.4324	0.4609	0.4894	0.5179	16.3
21.1-23.0	22.9- 25.0	0.0453	0.0779	0.1109	0.1442	0.1777	0.2113	0.2450	0.2788	0.3126	0.3465	0.3804	0.4144	0.4485	0.4825	0.5166	0.5508	0.5849	0.6191	17.4
23.1-25.0	25.1- 27.3	0.0528	0.0910	0.1298	0.1690	0.2084	0.2479	0.2876	0.3274	0.3673	0.4073	0.4473	0.4873	0.5275	0.5676	0.6078	0.6480	0.6883	0.7286	18.4
25.1-27.0	27.4- 29.5	0.0608	0.1051	0.1501	0.1955	0.2413	0.2873	0.3334	0.3797	0.4261	0.4726	0.5191	0.5658	0.6124	0.6592	0.7059	0.7528	0.7996	0.8465	19.2
27.1-29.0	29.7- 31.8	0.0693	0.1200	0.1717	0.2239	0.2765	0.3293	0.3824	0.4356	0.4890	0.5425	0.5960	0.6497	0.7034	0.7572	0.8110	0.8649	0.9189	0.9729	20.0
29.1-31.0	32.0- 34.2	0.0783	0.1359	0.1946	0.2540	0.3138	0.3740	0.4345	0.4951	0.5559	0.6169	0.6780	0.7391	0.8004	0.8617	0.9231	0.9846	1.0461	1.1077	20.7
31.1-33.0	34.3- 36.5	0.0879	0.1528	0.2189	0.2859	0.3534	0.4214	0.4897	0.5583	0.6270	0.6959	0.7650	0.8341	0.9034	0.9728	1.0422	1.1117	1.1813	1.2510	21.3
33.1-35.0	36.6- 38.9	0.0980	0.1706	0.2446	0.3196	0.3953	0.4715	0.5481	0.6250	0.7022	0.7795	0.8571	0.9347	1.0125	1.0904	1.1684	1.2464	1.3246	1.4028	21.8
35.1-37.0	39.0- 41.3	0.1087	0.1894	0.2716	0.3551	0.4394	0.5243	0.6097	0.6955	0.7815	0.8678	0.9543	1.0409	1.1277	1.2146	1.3016	1.3888	1.4760	1.5633	22.3
37.1-39.0	41.4- 43.8	0.1200	0.2091	0.3001	0.3925	0.4858	0.5799	0.6745	0.7696	0.8650	0.9607	1.0566	1.1527	1.2490	1.3454	1.4420	1.5387	1.6355	1.7324	22.7
39.1-41.0	43.9- 46.2	0.1320	0.2299	0.3300	0.4317	0.5345	0.6382	0.7426	0.8474	0.9527	1.0583	1.1641	1.2702	1.3765	1.4830	1.5896	1.6964	1.8033	1.9103	23.0
41.1-43.0	46.4- 48.7	0.1445	0.2518	0.3614	0.4728	0.5856	0.6994	0.8139	0.9290	1.0446	1.1606	1.2769	1.3935	1.5103	1.6273	1.7445	1.8618	1.9793	2.0969	23.4
43.1-45.0	48.9- 51.3	0.1577	0.2747	0.3942	0.5158	0.6390	0.7633	0.8885	1.0144	1.1408	1.2677	1.3949	1.5225	1.6503	1.7783	1.9066	2.0351	2.1637	2.2925	23.6
45.1-47.0	51.4- 53.8	0.1717	0.2988	0.4286	0.5608	0.6948	0.8301	0.9664	1.1035	1.2413	1.3795	1.5182	1.6573	1.7966	1.9363	2.0761	2.2162	2.3565	2.4969	23.9
47.1-49.0	53.9- 56.4	0.1863	0.3239	0.4645	0.6077	0.7530	0.8998	1.0477	1.1966	1.3461	1.4963	1.6469	1.7980	1.9494	2.1011	2.2531	2.4054	2.5578	2.7105	24.1
49.1-51.0	56.5- 59.0	0.2017	0.3503	0.5020	0.6567	0.8137	0.9724	1.1324	1.2935	1.4554	1.6179	1.7810	1.9446	2.1086	2.2730	2.4376	2.6025	2.7677	2.9331	24.3
51.1-53.0	59.1- 61.6	0.2178	0.3778	0.5411	0.7077	0.8768	1.0480	1.2206	1.3943	1.5690	1.7445	1.9206	2.0972	2.2743	2.4518	2.6297	2.8078	2.9863	3.1649	24.5
53.1-55.0	61.8- 64.3	0.2348	0.4066	0.5819	0.7608	0.9426	1.1265	1.3122	1.4992	1.6872	1.8761	2.0657	2.2559	2.4467	2.6379	2.8294	3.0214	3.2136	3.4061	24.6
55.1-57.0	64.4- 67.0	0.2526	0.4367	0.6244	0.8160	1.0109	1.2082	1.4074	1.6080	1.8099	2.0128	2.2164	2.4207	2.6257	2.8311	3.0369	3.2432	3.4498	3.6567	24.7
57.1-59.0	67.1- 69.7	0.2713	0.4682	0.6686	0.8735	1.0818	1.2929	1.5061	1.7210	1.9372	2.1546	2.3728	2.5918	2.8114	3.0316	3.2523	3.4734	3.6949	3.9167	24.9
59.1-61.0	69.9- 72.5	0.2910	0.5010	0.7147	0.9331	1.1554	1.3808	1.6085	1.8381	2.0692	2.3015	2.5349	2.7690	3.0039	3.2394	3.4755	3.7121	3.9490	4.1864	24.9
61.1-63.0	72.6- 75.3	0.3116	0.5352	0.7626	0.9950	1.2318	1.4719	1.7147	1.9595	2.2060	2.4538	2.7027	2.9526	3.2034	3.4548	3.7068	3.9593	4.2124	4.4658	25.0
63.1-65.0	75.4- 78.1	0.3331	0.5709	0.8123	1.0593	1.3109	1.5663	1.8245	2.0851	2.3475	2.6114	2.8765	3.1427	3.4098	3.6776	3.9462	4.2153	4.4850	4.7551	25.1
65.1-67.0	78.2- 80.9	0.3558	0.6081	0.8640	1.1259	1.3929	1.6640	1.9382	2.2150	2.4938	2.7743	3.0562	3.3392	3.6233	3.9081	4.1938	4.4800	4.7669	5.0543	25.2
67.1-69.0	81.0- 83.8	0.3795	0.6469	0.9178	1.1950	1.4778	1.7650	2.0558	2.3493	2.6451	2.9428	3.2419	3.5424	3.8439	4.1464	4.4497	4.7537	5.0584	5.3636	25.2
69.1-71.0	83.9- 86.7	0.4044	0.6873	0.9736	1.2666	1.5656	1.8695	2.1773	2.4881	2.8014	3.1168	3.4337	3.7522	4.0718	4.3924	4.7140	5.0363	5.3594	5.6831	25.3
71.1-73.0	86.8- 89.6	0.4305	0.7295	1.0315	1.3407	1.6565	1.9776	2.3028	2.6315	2.9628	3.2964	3.6318	3.9687	4.3070	4.6464	4.9868	5.3281	5.6702	6.0129	25.3
73.1-75.0	89.7- 92.5	0.4578	0.7733	1.0915	1.4174	1.7504	2.0891	2.4325	2.7794	3.1293	3.4817	3.8361	4.1921	4.5497	4.9084	5.2683	5.6291	5.9908	6.3532	25.4
75.1-77.0	92.7- 95.5	0.4864	0.8190	1.1539	1.4969	1.8475	2.2044	2.5662	2.9321	3.3011	3.6728	4.0467	4.4225	4.7999	5.1786	5.5585	5.9395	6.3213	6.7040	25.4
77.1-79.0	95.6- 98.5	0.5163	0.8666	1.2185	1.5791	1.9478	2.3233	2.7042	3.0894	3.4782	3.8698	4.2639	4.6599	5.0577	5.4570	5.8576	6.2593	6.6620	7.0656	25.4
79.1-81.0	98.7-101.5	0.5477	0.9161	1.2855	1.6641	2.0514	2.4461	2.8465	3.2517	3.6607	4.0728	4.4876	4.9045	5.3233	5.7438	6.1656	6.5887	7.0129	7.4381	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

Table 5. Merchantable volume (m^3) from 0.30 m stump height to 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.2- 10.1	0.0036	0.0062	0.0089	0.0116	0.0143	0.0170	0.0197	0.0224	0.0251	0.0278	0.0306	0.0333	0.0360	0.0388	0.0415	0.0442	0.0470	0.0497	7.3
9.1-11.0	10.2- 12.2	0.0087	0.0149	0.0211	0.0274	0.0336	0.0399	0.0462	0.0526	0.0589	0.0652	0.0715	0.0779	0.0842	0.0906	0.0969	0.1033	0.1097	0.1160	9.1
11.1-13.0	12.3- 14.2	0.0137	0.0233	0.0330	0.0427	0.0525	0.0623	0.0722	0.0820	0.0919	0.1017	0.1116	0.1215	0.1314	0.1413	0.1512	0.1611	0.1710	0.1809	10.8
13.1-15.0	14.3- 16.3	0.0189	0.0323	0.0458	0.0593	0.0730	0.0866	0.1003	0.1140	0.1277	0.1414	0.1552	0.1690	0.1827	0.1965	0.2103	0.2241	0.2379	0.2517	12.4
15.1-17.0	16.4- 18.5	0.0246	0.0421	0.0597	0.0775	0.0953	0.1132	0.1312	0.1491	0.1671	0.1851	0.2032	0.2212	0.2393	0.2574	0.2755	0.2936	0.3117	0.3298	13.8
17.1-19.0	18.6- 20.6	0.0307	0.0527	0.0749	0.0973	0.1198	0.1424	0.1650	0.1876	0.2103	0.2331	0.2558	0.2786	0.3014	0.3242	0.3471	0.3699	0.3928	0.4157	15.1
19.1-21.0	20.7- 22.8	0.0373	0.0642	0.0914	0.1188	0.1464	0.1740	0.2018	0.2296	0.2574	0.2853	0.3133	0.3412	0.3692	0.3972	0.4253	0.4534	0.4814	0.5095	16.3
21.1-23.0	22.9- 25.0	0.0444	0.0765	0.1091	0.1420	0.1751	0.2083	0.2417	0.2751	0.3085	0.3420	0.3756	0.4092	0.4429	0.4765	0.5103	0.5440	0.5778	0.6115	17.4
23.1-25.0	25.1- 27.3	0.0519	0.0897	0.1282	0.1670	0.2060	0.2453	0.2846	0.3241	0.3636	0.4032	0.4429	0.4826	0.5224	0.5622	0.6020	0.6419	0.6818	0.7218	18.4
25.1-27.0	27.4- 29.5	0.0600	0.1039	0.1485	0.1937	0.2391	0.2848	0.3306	0.3766	0.4227	0.4688	0.5151	0.5614	0.6077	0.6542	0.7006	0.7471	0.7937	0.8402	19.2
27.1-29.0	29.7- 31.8	0.0685	0.1189	0.1702	0.2221	0.2744	0.3270	0.3798	0.4327	0.4858	0.5390	0.5923	0.6456	0.6991	0.7526	0.8061	0.8597	0.9134	0.9671	20.0
29.1-31.0	32.0- 34.2	0.0776	0.1349	0.1932	0.2523	0.3119	0.3718	0.4320	0.4924	0.5530	0.6136	0.6744	0.7353	0.7963	0.8574	0.9185	0.9797	1.0410	1.1023	20.7
31.1-33.0	34.3- 36.5	0.0872	0.1517	0.2176	0.2843	0.3516	0.4193	0.4874	0.5557	0.6242	0.6928	0.7616	0.8306	0.8996	0.9687	1.0379	1.1072	1.1765	1.2459	21.3
33.1-35.0	36.6- 38.9	0.0973	0.1696	0.2433	0.3181	0.3935	0.4695	0.5459	0.6226	0.6995	0.7766	0.8539	0.9313	1.0089	1.0865	1.1643	1.2421	1.3201	1.3981	21.8
35.1-37.0	39.0- 41.3	0.1081	0.1884	0.2704	0.3536	0.4377	0.5224	0.6076	0.6931	0.7790	0.8650	0.9513	1.0377	1.1243	1.2110	1.2978	1.3847	1.4717	1.5588	22.3
37.1-39.0	41.4- 43.8	0.1194	0.2082	0.2989	0.3911	0.4842	0.5781	0.6725	0.7674	0.8626	0.9580	1.0537	1.1497	1.2457	1.3420	1.4383	1.5348	1.6314	1.7281	22.7
39.1-41.0	43.9- 46.2	0.1313	0.2290	0.3289	0.4303	0.5330	0.6365	0.7406	0.8453	0.9503	1.0557	1.1614	1.2673	1.3734	1.4797	1.5861	1.6927	1.7994	1.9062	23.0
41.1-43.0	46.4- 48.7	0.1439	0.2509	0.3602	0.4715	0.5840	0.6976	0.8120	0.9269	1.0423	1.1581	1.2742	1.3906	1.5072	1.6241	1.7411	1.8582	1.9755	2.0930	23.4
43.1-45.0	48.9- 51.3	0.1571	0.2738	0.3931	0.5145	0.6375	0.7616	0.8866	1.0123	1.1386	1.2653	1.3923	1.5197	1.6474	1.7753	1.9033	2.0316	2.1601	2.2887	23.6
45.1-47.0	51.4- 53.8	0.1711	0.2979	0.4275	0.5595	0.6933	0.8285	0.9646	1.1016	1.2391	1.3772	1.5157	1.6546	1.7938	1.9333	2.0730	2.2129	2.3530	2.4933	23.9
47.1-49.0	53.9- 56.4	0.1857	0.3231	0.4634	0.6065	0.7516	0.8982	1.0459	1.1946	1.3440	1.4940	1.6445	1.7954	1.9467	2.0982	2.2500	2.4021	2.5544	2.7069	24.1
49.1-51.0	56.5- 59.0	0.2011	0.3494	0.5010	0.6555	0.8123	0.9708	1.1307	1.2916	1.4533	1.6157	1.7787	1.9421	2.1059	2.2701	2.4346	2.5994	2.7644	2.9296	24.3
51.1-53.0	59.1- 61.6	0.2173	0.3770	0.5401	0.7065	0.8755	1.0464	1.2188	1.3925	1.5670	1.7423	1.9183	2.0948	2.2717	2.4491	2.6268	2.8047	2.9830	3.1615	24.5
53.1-55.0	61.8- 64.3	0.2343	0.4058	0.5809	0.7596	0.9412	1.1250	1.3105	1.4973	1.6852	1.8740	2.0634	2.2535	2.4441	2.6351	2.8266	3.0183	3.2104	3.4028	24.6
55.1-57.0	64.4- 67.0	0.2521	0.4359	0.6234	0.8149	1.0095	1.2067	1.4057	1.6062	1.8080	2.0107	2.2142	2.4184	2.6231	2.8284	3.0341	3.2402	3.4466	3.6534	24.7
57.1-59.0	67.1- 69.7	0.2708	0.4674	0.6676	0.8723	1.0805	1.2914	1.5045	1.7192	1.9353	2.1525	2.3706	2.5894	2.8089	3.0289	3.2495	3.4704	3.6918	3.9135	24.9
59.1-61.0	69.9- 72.5	0.2904	0.5002	0.7137	0.9319	1.1541	1.3793	1.6069	1.8364	2.0673	2.2995	2.5327	2.7667	3.0015	3.2368	3.4728	3.7092	3.9460	4.1832	24.9
61.1-63.0	72.6- 75.3	0.3110	0.5344	0.7616	0.9939	1.2305	1.4705	1.7131	1.9577	2.2041	2.4518	2.7006	2.9503	3.2009	3.4522	3.7041	3.9565	4.2094	4.4627	25.0
63.1-65.0	75.4- 78.1	0.3326	0.5701	0.8114	1.0581	1.3096	1.5648	1.8229	2.0833	2.3456	2.6093	2.8743	3.1404	3.4074	3.6751	3.9435	4.2125	4.4820	4.7520	25.1
65.1-67.0	78.2- 80.9	0.3553	0.6073	0.8631	1.1248	1.3916	1.6625	1.9366	2.2133	2.4920	2.7723	3.0541	3.3370	3.6209	3.9056	4.1911	4.4772	4.7640	5.0512	25.2
67.1-69.0	81.0- 83.8	0.3790	0.6461	0.9168	1.1939	1.4765	1.7636	2.0542	2.3476	2.6433	2.9408	3.2398	3.5401	3.8415	4.1438	4.4470	4.7509	5.0554	5.3605	25.2
69.1-71.0	83.9- 86.7	0.4039	0.6866	0.9726	1.2654	1.5643	1.8681	2.1757	2.4864	2.7996	3.1148	3.4316	3.7499	4.0694	4.3899	4.7113	5.0336	5.3565	5.6800	25.3
71.1-73.0	86.8- 89.6	0.4300	0.7287	1.0305	1.3396	1.6552	1.9761	2.3013	2.6298	2.9610	3.2944	3.6297	3.9665	4.3046	4.6439	4.9842	5.3253	5.6672	6.0099	25.3
73.1-75.0	89.7- 92.5	0.4573	0.7726	1.0906	1.4163	1.7491	2.0877	2.4309	2.7777	3.1275	3.4797	3.8340	4.1899	4.5473	4.9059	5.2657	5.6263	5.9879	6.3501	25.4
75.1-77.0	92.7- 95.5	0.4859	0.8183	1.1529	1.4958	1.8462	2.2029	2.5646	2.9303	3.2993	3.6708	4.0446	4.4203	4.7975	5.1761	5.5559	5.9367	6.3184	6.7010	25.4
77.1-79.0	95.6- 98.5	0.5158	0.8658	1.2176	1.5779	1.9465	2.3219	2.7026	3.0877	3.4763	3.8678	4.2617	4.6577	5.0553	5.4545	5.8549	6.2565	6.6591	7.0626	25.4
79.1-81.0	98.7-101.5	0.5472	0.9153	1.2846	1.6630	2.0501	2.4446	2.8449	3.2500	3.6588	4.0708	4.4854	4.9022	5.3209	5.7413	6.1630	6.5859	7.0100	7.4350	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 6. Merchantable volume (m^3) from 0.30 m stump height to 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.2	0.0078	0.0137	0.0197	0.0257	0.0317	0.0378	0.0438	0.0499	0.0560	0.0621	0.0682	0.0743	0.0805	0.0866	0.0927	0.0989	0.1050	0.1112	10.8
13.1-15.0	14.3- 16.3	0.0144	0.0252	0.0360	0.0470	0.0580	0.0691	0.0801	0.0913	0.1024	0.1135	0.1247	0.1359	0.1471	0.1582	0.1694	0.1807	0.1919	0.2031	12.4
15.1-17.0	16.4- 18.5	0.0209	0.0362	0.0518	0.0675	0.0833	0.0991	0.1150	0.1309	0.1468	0.1628	0.1788	0.1948	0.2108	0.2269	0.2429	0.2590	0.2750	0.2911	13.8
17.1-19.0	18.6- 20.6	0.0275	0.0476	0.0681	0.0888	0.1095	0.1304	0.1513	0.1722	0.1932	0.2142	0.2353	0.2563	0.2774	0.2985	0.3196	0.3408	0.3619	0.3831	15.1
19.1-21.0	20.7- 22.8	0.0344	0.0597	0.0854	0.1113	0.1374	0.1635	0.1898	0.2161	0.2425	0.2689	0.2954	0.3218	0.3484	0.3749	0.4015	0.4280	0.4546	0.4812	16.3
21.1-23.0	22.9- 25.0	0.0417	0.0724	0.1037	0.1353	0.1670	0.1989	0.2309	0.2630	0.2952	0.3274	0.3597	0.3920	0.4243	0.4567	0.4891	0.5215	0.5540	0.5864	17.4
23.1-25.0	25.1- 27.3	0.0495	0.0860	0.1232	0.1608	0.1987	0.2367	0.2749	0.3132	0.3515	0.3900	0.4285	0.4670	0.5056	0.5443	0.5829	0.6216	0.6604	0.6992	18.4
25.1-27.0	27.4- 29.5	0.0577	0.1004	0.1439	0.1880	0.2323	0.2769	0.3217	0.3666	0.4116	0.4567	0.5019	0.5472	0.5925	0.6378	0.6832	0.7287	0.7741	0.8197	19.2
27.1-29.0	29.7- 31.8	0.0663	0.1156	0.1659	0.2168	0.2681	0.3197	0.3715	0.4235	0.4756	0.5278	0.5801	0.6325	0.6850	0.7375	0.7901	0.8427	0.8954	0.9481	20.0
29.1-31.0	32.0- 34.2	0.0755	0.1318	0.1892	0.2473	0.3060	0.3650	0.4243	0.4838	0.5434	0.6032	0.6632	0.7232	0.7833	0.8434	0.9037	0.9640	1.0243	1.0848	20.7
31.1-33.0	34.3- 36.5	0.0852	0.1488	0.2137	0.2796	0.3460	0.4129	0.4801	0.5476	0.6153	0.6831	0.7511	0.8192	0.8874	0.9557	1.0241	1.0925	1.1610	1.2296	21.3
33.1-35.0	36.6- 38.9	0.0955	0.1668	0.2396	0.3136	0.3882	0.4634	0.5390	0.6150	0.6911	0.7675	0.8440	0.9206	0.9974	1.0743	1.1513	1.2284	1.3055	1.3828	21.8
35.1-37.0	39.0- 41.3	0.1063	0.1857	0.2669	0.3493	0.4327	0.5166	0.6011	0.6859	0.7710	0.8563	0.9419	1.0276	1.1134	1.1994	1.2855	1.3717	1.4580	1.5444	22.3
37.1-39.0	41.4- 43.8	0.1176	0.2056	0.2955	0.3869	0.4793	0.5725	0.6663	0.7604	0.8550	0.9498	1.0448	1.1401	1.2355	1.3310	1.4267	1.5225	1.6185	1.7145	22.7
39.1-41.0	43.9- 46.2	0.1296	0.2265	0.3256	0.4263	0.5283	0.6311	0.7346	0.8387	0.9431	1.0478	1.1529	1.2581	1.3636	1.4692	1.5750	1.6810	1.7870	1.8932	23.0
41.1-43.0	46.4- 48.7	0.1423	0.2485	0.3571	0.4676	0.5795	0.6925	0.8062	0.9206	1.0354	1.1506	1.2661	1.3819	1.4979	1.6141	1.7305	1.8471	1.9638	2.0806	23.4
43.1-45.0	48.9- 51.3	0.1556	0.2715	0.3900	0.5108	0.6331	0.7567	0.8811	1.0062	1.1319	1.2580	1.3845	1.5113	1.6384	1.7657	1.8932	2.0209	2.1488	2.2768	23.6
45.1-47.0	51.4- 53.8	0.1695	0.2956	0.4245	0.5559	0.6891	0.8237	0.9593	1.0956	1.2327	1.3702	1.5082	1.6465	1.7852	1.9241	2.0633	2.2026	2.3422	2.4819	23.9
47.1-49.0	53.9- 56.4	0.1842	0.3208	0.4605	0.6030	0.7475	0.8935	1.0407	1.1889	1.3378	1.4872	1.6372	1.7876	1.9383	2.0894	2.2407	2.3922	2.5440	2.6959	24.1
49.1-51.0	56.5- 59.0	0.1996	0.3472	0.4981	0.6520	0.8083	0.9663	1.1256	1.2860	1.4472	1.6091	1.7716	1.9345	2.0979	2.2616	2.4255	2.5898	2.7543	2.9190	24.3
51.1-53.0	59.1- 61.6	0.2158	0.3749	0.5373	0.7031	0.8716	1.0420	1.2139	1.3870	1.5611	1.7359	1.9114	2.0874	2.2639	2.4408	2.6180	2.7955	2.9733	3.1513	24.5
53.1-55.0	61.8- 64.3	0.2329	0.4037	0.5782	0.7563	0.9374	1.1207	1.3057	1.4920	1.6795	1.8677	2.0568	2.2464	2.4365	2.6271	2.8180	3.0093	3.2010	3.3928	24.6
55.1-57.0	64.4- 67.0	0.2507	0.4339	0.6207	0.8116	1.0058	1.2024	1.4010	1.6011	1.8023	2.0046	2.2077	2.4114	2.6157	2.8205	3.0258	3.2314	3.4374	3.6437	24.7
57.1-59.0	67.1- 69.7	0.2694	0.4653	0.6650	0.8691	1.0768	1.2873	1.4999	1.7142	1.9298	2.1465	2.3642	2.5826	2.8016	3.0213	3.2414	3.4619	3.6828	3.9041	24.9
59.1-61.0	69.9- 72.5	0.2891	0.4982	0.7111	0.9288	1.1505	1.3753	1.6024	1.8314	2.0619	2.2937	2.5264	2.7600	2.9944	3.2293	3.4649	3.7008	3.9373	4.1741	24.9
61.1-63.0	72.6- 75.3	0.3097	0.5324	0.7590	0.9908	1.2269	1.4664	1.7086	1.9528	2.1988	2.4460	2.6944	2.9438	3.1940	3.4448	3.6963	3.9483	4.2008	4.4537	25.0
63.1-65.0	75.4- 78.1	0.3313	0.5682	0.8088	1.0551	1.3061	1.5609	1.8185	2.0785	2.3404	2.6037	2.8683	3.1340	3.4005	3.6679	3.9359	4.2045	4.4736	4.7432	25.1
65.1-67.0	78.2- 80.9	0.3540	0.6054	0.8606	1.1218	1.3881	1.6586	1.9323	2.2085	2.4868	2.7668	3.0481	3.3306	3.6141	3.8985	4.1836	4.4694	4.7557	5.0426	25.2
67.1-69.0	81.0- 83.8	0.3778	0.6442	0.9143	1.1909	1.4731	1.7597	2.0499	2.3429	2.6382	2.9353	3.2339	3.5339	3.8349	4.1369	4.4397	4.7432	5.0473	5.3520	25.2
69.1-71.0	83.9- 86.7	0.4027	0.6847	0.9702	1.2625	1.5609	1.8643	2.1715	2.4818	2.7946	3.1094	3.4259	3.7438	4.0629	4.3830	4.7041	5.0259	5.3485	5.6717	25.3
71.1-73.0	86.8- 89.6	0.4288	0.7269	1.0281	1.3366	1.6518	1.9723	2.2971	2.6252	2.9560	3.2890	3.6239	3.9604	4.2982	4.6371	4.9770	5.3178	5.6594	6.0016	25.3
73.1-75.0	89.7- 92.5	0.4561	0.7707	1.0882	1.4134	1.7458	2.0839	2.4267	2.7732	3.1226	3.4744	3.8283	4.1839	4.5409	4.8992	5.2586	5.6189	5.9801	6.3420	25.4
75.1-77.0	92.7- 95.5	0.4847	0.8165	1.1505	1.4929	1.8429	2.1992	2.5605	2.9258	3.2944	3.6656	4.0390	4.4143	4.7912	5.1694	5.5489	5.9293	6.3107	6.6929	25.4
77.1-79.0	95.6- 98.5	0.5147	0.8640	1.2152	1.5751	1.9432	2.3182	2.6985	3.0832	3.4715	3.8626	4.2562	4.6518	5.0491	5.4479	5.8480	6.2492	6.6515	7.0546	25.4
79.1-81.0	98.7-101.5	0.5461	0.9136	1.2823	1.6601	2.0469	2.4409	2.8408	3.2455	3.6540	4.0656	4.4799	4.8964	5.3147	5.7347	6.1561	6.5787	7.0024	7.4271	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

Table 7. Merchantable volume (m^3) from 0.30 m stump height to 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.2	0.0043	0.0072	0.0099	0.0123	0.0147	0.0170	0.0193	0.0215	0.0236	0.0258	0.0279	0.0300	0.0322	0.0343	0.0363	0.0384	0.0405	0.0426	10.8
13.1-15.0	14.3- 16.3	0.0119	0.0209	0.0301	0.0393	0.0486	0.0579	0.0672	0.0766	0.0860	0.0954	0.1048	0.1142	0.1237	0.1331	0.1426	0.1521	0.1615	0.1710	12.4
15.1-17.0	16.4- 18.5	0.0189	0.0330	0.0473	0.0617	0.0763	0.0909	0.1056	0.1202	0.1350	0.1497	0.1644	0.1792	0.1940	0.2088	0.2236	0.2385	0.2533	0.2681	13.8
17.1-19.0	18.6- 20.6	0.0258	0.0449	0.0644	0.0841	0.1038	0.1237	0.1436	0.1636	0.1836	0.2036	0.2237	0.2438	0.2639	0.2840	0.3042	0.3243	0.3445	0.3647	15.1
19.1-21.0	20.7- 22.8	0.0329	0.0573	0.0822	0.1073	0.1325	0.1578	0.1833	0.2088	0.2343	0.2599	0.2855	0.3112	0.3369	0.3626	0.3883	0.4141	0.4399	0.4656	16.3
21.1-23.0	22.9- 25.0	0.0404	0.0704	0.1009	0.1317	0.1627	0.1939	0.2252	0.2566	0.2880	0.3195	0.3511	0.3827	0.4143	0.4460	0.4776	0.5093	0.5411	0.5728	17.4
23.1-25.0	25.1- 27.3	0.0482	0.0841	0.1206	0.1576	0.1948	0.2322	0.2698	0.3074	0.3451	0.3829	0.4208	0.4587	0.4967	0.5347	0.5727	0.6108	0.6489	0.6870	18.4
25.1-27.0	27.4- 29.5	0.0565	0.0986	0.1416	0.1850	0.2288	0.2728	0.3170	0.3614	0.4058	0.4504	0.4950	0.5396	0.5844	0.6292	0.6740	0.7189	0.7638	0.8087	19.2
27.1-29.0	29.7- 31.8	0.0653	0.1140	0.1637	0.2141	0.2648	0.3159	0.3672	0.4187	0.4702	0.5219	0.5737	0.6256	0.6776	0.7296	0.7816	0.8338	0.8859	0.9381	20.0
29.1-31.0	32.0- 34.2	0.0745	0.1302	0.1871	0.2448	0.3029	0.3615	0.4203	0.4793	0.5385	0.5978	0.6573	0.7168	0.7764	0.8361	0.8959	0.9557	1.0156	1.0755	20.7
31.1-33.0	34.3- 36.5	0.0843	0.1474	0.2118	0.2772	0.3432	0.4096	0.4764	0.5434	0.6107	0.6781	0.7456	0.8133	0.8810	0.9489	1.0168	1.0848	1.1529	1.2210	21.3
33.1-35.0	36.6- 38.9	0.0946	0.1654	0.2378	0.3113	0.3856	0.4603	0.5355	0.6110	0.6868	0.7627	0.8388	0.9151	0.9915	1.0679	1.1445	1.2212	1.2979	1.3747	21.8
35.1-37.0	39.0- 41.3	0.1054	0.1844	0.2652	0.3472	0.4301	0.5137	0.5978	0.6822	0.7669	0.8519	0.9370	1.0223	1.1078	1.1934	1.2791	1.3649	1.4508	1.5368	22.3
37.1-39.0	41.4- 43.8	0.1168	0.2043	0.2939	0.3849	0.4769	0.5697	0.6631	0.7569	0.8511	0.9455	1.0402	1.1351	1.2302	1.3254	1.4207	1.5162	1.6117	1.7074	22.7
39.1-41.0	43.9- 46.2	0.1289	0.2253	0.3240	0.4244	0.5260	0.6285	0.7316	0.8353	0.9394	1.0438	1.1485	1.2534	1.3586	1.4639	1.5693	1.6749	1.7806	1.8865	23.0
41.1-43.0	46.4- 48.7	0.1415	0.2473	0.3555	0.4657	0.5773	0.6899	0.8033	0.9174	1.0318	1.1467	1.2619	1.3774	1.4931	1.6090	1.7251	1.8413	1.9577	2.0742	23.4
43.1-45.0	48.9- 51.3	0.1548	0.2703	0.3886	0.5090	0.6310	0.7542	0.8783	1.0031	1.1285	1.2543	1.3805	1.5070	1.6338	1.7608	1.8880	2.0154	2.1430	2.2707	23.6
45.1-47.0	51.4- 53.8	0.1688	0.2945	0.4231	0.5541	0.6870	0.8213	0.9566	1.0927	1.2294	1.3667	1.5044	1.6424	1.7808	1.9194	2.0583	2.1973	2.3366	2.4761	23.9
47.1-49.0	53.9- 56.4	0.1835	0.3198	0.4591	0.6012	0.7454	0.8912	1.0381	1.1860	1.3346	1.4838	1.6335	1.7836	1.9341	2.0848	2.2359	2.3872	2.5386	2.6903	24.1
49.1-51.0	56.5- 59.0	0.1990	0.3462	0.4967	0.6503	0.8063	0.9640	1.1231	1.2832	1.4442	1.6058	1.7680	1.9307	2.0938	2.2572	2.4209	2.5849	2.7492	2.9136	24.3
51.1-53.0	59.1- 61.6	0.2152	0.3738	0.5360	0.7015	0.8697	1.0398	1.2115	1.3843	1.5582	1.7327	1.9080	2.0837	2.2599	2.4366	2.6135	2.7908	2.9683	3.1461	24.5
53.1-55.0	61.8- 64.3	0.2322	0.4027	0.5769	0.7547	0.9355	1.1186	1.3033	1.4894	1.6766	1.8646	2.0534	2.2428	2.4327	2.6230	2.8137	3.0048	3.1962	3.3878	24.6
55.1-57.0	64.4- 67.0	0.2501	0.4329	0.6194	0.8101	1.0040	1.2004	1.3987	1.5985	1.7995	2.0016	2.2044	2.4079	2.6120	2.8166	3.0216	3.2270	3.4328	3.6389	24.7
57.1-59.0	67.1- 69.7	0.2688	0.4644	0.6638	0.8676	1.0750	1.2852	1.4976	1.7117	1.9271	2.1436	2.3610	2.5792	2.7980	3.0174	3.2373	3.4576	3.6783	3.8994	24.9
59.1-61.0	69.9- 72.5	0.2885	0.4972	0.7099	0.9273	1.1488	1.3733	1.6002	1.8290	2.0593	2.2908	2.5233	2.7567	2.9908	3.2256	3.4609	3.6967	3.9329	4.1695	24.9
61.1-63.0	72.6- 75.3	0.3091	0.5315	0.7578	0.9893	1.2252	1.4645	1.7064	1.9505	2.1962	2.4432	2.6914	2.9406	3.1905	3.4412	3.6925	3.9443	4.1965	4.4492	25.0
63.1-65.0	75.4- 78.1	0.3308	0.5673	0.8076	1.0537	1.3044	1.5590	1.8164	2.0762	2.3378	2.6010	2.8654	3.1308	3.3972	3.6643	3.9321	4.2005	4.4694	4.7388	25.1
65.1-67.0	78.2- 80.9	0.3534	0.6045	0.8594	1.1204	1.3865	1.6567	1.9302	2.2062	2.4843	2.7641	3.0452	3.3275	3.6108	3.8950	4.1799	4.4655	4.7516	5.0383	25.2
67.1-69.0	81.0- 83.8	0.3772	0.6434	0.9132	1.1895	1.4714	1.7579	2.0479	2.3407	2.6357	2.9326	3.2311	3.5308	3.8317	4.1334	4.4360	4.7394	5.0433	5.3478	25.2
69.1-71.0	83.9- 86.7	0.4021	0.6839	0.9690	1.2611	1.5593	1.8625	2.1695	2.4796	2.7921	3.1067	3.4230	3.7408	4.0597	4.3797	4.7005	5.0222	5.3446	5.6676	25.3
71.1-73.0	86.8- 89.6	0.4282	0.7260	1.0270	1.3353	1.6502	1.9705	2.2951	2.6230	2.9536	3.2865	3.6212	3.9575	4.2951	4.6338	4.9735	5.3141	5.6555	5.9976	25.3
73.1-75.0	89.7- 92.5	0.4556	0.7699	1.0871	1.4121	1.7442	2.0822	2.4247	2.7710	3.1202	3.4719	3.8256	4.1810	4.5378	4.8959	5.2551	5.6153	5.9763	6.3380	25.4
75.1-77.0	92.7- 95.5	0.4842	0.8156	1.1495	1.4916	1.8414	2.1974	2.5586	2.9237	3.2920	3.6631	4.0363	4.4114	4.7881	5.1662	5.5455	5.9258	6.3070	6.6890	25.4
77.1-79.0	95.6- 98.5	0.5142	0.8632	1.2141	1.5738	1.9417	2.3164	2.6966	3.0811	3.4692	3.8601	4.2535	4.6489	5.0461	5.4447	5.8446	6.2457	6.6478	7.0507	25.4
79.1-81.0	98.7-101.5	0.5456	0.9128	1.2812	1.6588	2.0453	2.4392	2.8389	3.2434	3.6517	4.0632	4.4773	4.8936	5.3118	5.7316	6.1528	6.5752	6.9988	7.4233	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 8. Merchantable volume (m^3) from 0.30 m stump height to 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.3- 16.3	0.0047	0.0074	0.0096	0.0113	0.0129	0.0144	0.0158	0.0172	0.0186	0.0200	0.0215	0.0229	0.0243	0.0257	0.0272	0.0286	0.0301	0.0315	12.4
15.1-17.0	16.4- 18.5	0.0133	0.0234	0.0335	0.0438	0.0541	0.0645	0.0749	0.0854	0.0958	0.1063	0.1169	0.1274	0.1379	0.1485	0.1591	0.1697	0.1802	0.1908	13.8
17.1-19.0	18.6- 20.6	0.0213	0.0373	0.0538	0.0704	0.0871	0.1039	0.1208	0.1378	0.1548	0.1718	0.1888	0.2059	0.2230	0.2401	0.2572	0.2744	0.2915	0.3087	15.1
19.1-21.0	20.7- 22.8	0.0290	0.0509	0.0733	0.0959	0.1187	0.1416	0.1646	0.1877	0.2109	0.2340	0.2572	0.2805	0.3037	0.3270	0.3503	0.3737	0.3970	0.4204	16.3
21.1-23.0	22.9- 25.0	0.0369	0.0648	0.0932	0.1219	0.1509	0.1800	0.2092	0.2386	0.2680	0.2974	0.3269	0.3564	0.3860	0.4156	0.4453	0.4749	0.5046	0.5343	17.4
23.1-25.0	25.1- 27.3	0.0451	0.0791	0.1138	0.1489	0.1843	0.2199	0.2556	0.2915	0.3274	0.3635	0.3995	0.4357	0.4718	0.5081	0.5443	0.5806	0.6169	0.6532	18.4
25.1-27.0	27.4- 29.5	0.0537	0.0941	0.1353	0.1771	0.2193	0.2617	0.3043	0.3471	0.3899	0.4329	0.4759	0.5190	0.5621	0.6053	0.6485	0.6918	0.7351	0.7785	19.2
27.1-29.0	29.7- 31.8	0.0626	0.1098	0.1580	0.2068	0.2561	0.3057	0.3556	0.4056	0.4558	0.5060	0.5564	0.6068	0.6573	0.7079	0.7585	0.8092	0.8599	0.9107	20.0
29.1-31.0	32.0- 34.2	0.0721	0.1263	0.1818	0.2381	0.2949	0.3521	0.4096	0.4673	0.5252	0.5832	0.6413	0.6995	0.7578	0.8162	0.8747	0.9332	0.9917	1.0504	20.7
31.1-33.0	34.3- 36.5	0.0819	0.1437	0.2068	0.2709	0.3356	0.4009	0.4664	0.5322	0.5983	0.6644	0.7308	0.7972	0.8638	0.9304	0.9972	1.0640	1.1308	1.1977	21.3
33.1-35.0	36.6- 38.9	0.0924	0.1619	0.2331	0.3054	0.3785	0.4521	0.5262	0.6005	0.6752	0.7500	0.8250	0.9001	0.9754	1.0507	1.1262	1.2018	1.2774	1.3531	21.8
35.1-37.0	39.0- 41.3	0.1033	0.1811	0.2607	0.3416	0.4234	0.5059	0.5889	0.6723	0.7560	0.8399	0.9240	1.0083	1.0927	1.1773	1.2620	1.3467	1.4316	1.5165	22.3
37.1-39.0	41.4- 43.8	0.1148	0.2012	0.2896	0.3795	0.4706	0.5624	0.6547	0.7476	0.8408	0.9342	1.0279	1.1218	1.2159	1.3102	1.4045	1.4990	1.5936	1.6883	22.7
39.1-41.0	43.9- 46.2	0.1269	0.2222	0.3199	0.4193	0.5199	0.6214	0.7237	0.8264	0.9296	1.0331	1.1368	1.2409	1.3451	1.4495	1.5540	1.6587	1.7635	1.8684	23.0
41.1-43.0	46.4- 48.7	0.1396	0.2444	0.3516	0.4608	0.5715	0.6832	0.7957	0.9089	1.0225	1.1365	1.2508	1.3654	1.4803	1.5953	1.7105	1.8259	1.9414	2.0571	23.4
43.1-45.0	48.9- 51.3	0.1530	0.2675	0.3848	0.5043	0.6254	0.7478	0.8710	0.9950	1.1195	1.2445	1.3699	1.4956	1.6216	1.7478	1.8742	2.0008	2.1275	2.2544	23.6
45.1-47.0	51.4- 53.8	0.1671	0.2917	0.4194	0.5496	0.6816	0.8151	0.9496	1.0849	1.2208	1.3573	1.4942	1.6315	1.7691	1.9069	2.0450	2.1833	2.3218	2.4605	23.9
47.1-49.0	53.9- 56.4	0.1818	0.3171	0.4556	0.5968	0.7402	0.8852	1.0314	1.1785	1.3263	1.4748	1.6237	1.7731	1.9228	2.0729	2.2232	2.3737	2.5245	2.6754	24.1
49.1-51.0	56.5- 59.0	0.1973	0.3436	0.4933	0.6461	0.8013	0.9582	1.1166	1.2760	1.4362	1.5971	1.7586	1.9206	2.0830	2.2457	2.4087	2.5720	2.7356	2.8993	24.3
51.1-53.0	59.1- 61.6	0.2136	0.3713	0.5326	0.6973	0.8648	1.0342	1.2051	1.3773	1.5504	1.7243	1.8989	2.0740	2.2495	2.4254	2.6017	2.7783	2.9552	3.1323	24.5
53.1-55.0	61.8- 64.3	0.2307	0.4003	0.5736	0.7507	0.9308	1.1131	1.2972	1.4826	1.6691	1.8565	2.0446	2.2333	2.4226	2.6123	2.8023	2.9928	3.1835	3.3745	24.6
55.1-57.0	64.4- 67.0	0.2486	0.4305	0.6162	0.8061	0.9993	1.1950	1.3927	1.5919	1.7923	1.9937	2.1959	2.3987	2.6022	2.8062	3.0106	3.2154	3.4205	3.6260	24.7
57.1-59.0	67.1- 69.7	0.2674	0.4620	0.6606	0.8637	1.0705	1.2801	1.4918	1.7052	1.9200	2.1359	2.3527	2.5703	2.7885	3.0073	3.2266	3.4463	3.6665	3.8869	24.9
59.1-61.0	69.9- 72.5	0.2871	0.4949	0.7068	0.9236	1.1443	1.3682	1.5945	1.8227	2.0524	2.2833	2.5153	2.7481	2.9816	3.2158	3.4505	3.6857	3.9213	4.1574	24.9
61.1-63.0	72.6- 75.3	0.3077	0.5293	0.7548	0.9856	1.2209	1.4595	1.7009	1.9443	2.1894	2.4359	2.6835	2.9321	3.1815	3.4316	3.6824	3.9336	4.1853	4.4375	25.0
63.1-65.0	75.4- 78.1	0.3294	0.5651	0.8047	1.0500	1.3002	1.5541	1.8110	2.0702	2.3312	2.5938	2.8577	3.1226	3.3884	3.6550	3.9222	4.1901	4.4585	4.7273	25.1
65.1-67.0	78.2- 80.9	0.3521	0.6024	0.8565	1.1168	1.3823	1.6520	1.9249	2.2003	2.4779	2.7571	3.0377	3.3195	3.6023	3.8859	4.1703	4.4554	4.7410	5.0271	25.2
67.1-69.0	81.0- 83.8	0.3759	0.6413	0.9104	1.1860	1.4673	1.7532	2.0426	2.3349	2.6294	2.9258	3.2237	3.5229	3.8233	4.1245	4.4266	4.7294	5.0329	5.3369	25.2
69.1-71.0	83.9- 86.7	0.4008	0.6818	0.9662	1.2577	1.5553	1.8578	2.1643	2.4739	2.7859	3.1000	3.4158	3.7330	4.0515	4.3709	4.6913	5.0125	5.3344	5.6569	25.3
71.1-73.0	86.8- 89.6	0.4269	0.7240	1.0242	1.3319	1.6463	1.9660	2.2900	2.6174	2.9475	3.2799	3.6141	3.9499	4.2870	4.6252	4.9645	5.3046	5.6455	5.9871	25.3
73.1-75.0	89.7- 92.5	0.4543	0.7679	1.0844	1.4087	1.7403	2.0777	2.4197	2.7655	3.1142	3.4654	3.8186	4.1735	4.5299	4.8875	5.2463	5.6060	5.9665	6.3277	25.4
75.1-77.0	92.7- 95.5	0.4829	0.8136	1.1468	1.4883	1.8375	2.1930	2.5536	2.9182	3.2861	3.6567	4.0295	4.4041	4.7803	5.1580	5.5368	5.9166	6.2974	6.6789	25.4
77.1-79.0	95.6- 98.5	0.5130	0.8613	1.2115	1.5705	1.9379	2.3121	2.6917	3.0758	3.4633	3.8538	4.2468	4.6417	5.0384	5.4366	5.8361	6.2367	6.6383	7.0408	25.4
79.1-81.0	98.7-101.5	0.5444	0.9108	1.2786	1.6556	2.0416	2.4349	2.8341	3.2381	3.6459	4.0569	4.4706	4.8864	5.3042	5.7236	6.1443	6.5663	6.9895	7.4135	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

Table 9. Merchantable volume (m^3) from 0.30 m stump height to 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.4- 18.5	0.0052	0.0078	0.0094	0.0106	0.0117	0.0128	0.0138	0.0149	0.0161	0.0173	0.0185	0.0198	0.0211	0.0223	0.0237	0.0250	0.0263	0.0277	13.8
17.1-19.0	18.6- 20.6	0.0147	0.0256	0.0364	0.0473	0.0582	0.0692	0.0802	0.0912	0.1023	0.1134	0.1245	0.1356	0.1467	0.1578	0.1690	0.1802	0.1913	0.2025	15.1
19.1-21.0	20.7- 22.8	0.0236	0.0415	0.0597	0.0783	0.0970	0.1158	0.1347	0.1537	0.1727	0.1918	0.2109	0.2301	0.2493	0.2685	0.2877	0.3070	0.3262	0.3455	16.3
21.1-23.0	22.9- 25.0	0.0322	0.0567	0.0818	0.1073	0.1330	0.1588	0.1848	0.2109	0.2371	0.2633	0.2895	0.3158	0.3422	0.3686	0.3949	0.4214	0.4478	0.4743	17.4
23.1-25.0	25.1- 27.3	0.0409	0.0720	0.1039	0.1362	0.1689	0.2017	0.2347	0.2679	0.3011	0.3344	0.3677	0.4011	0.4346	0.4681	0.5016	0.5351	0.5687	0.6023	18.4
25.1-27.0	27.4- 29.5	0.0499	0.0877	0.1265	0.1659	0.2057	0.2457	0.2859	0.3262	0.3667	0.4073	0.4479	0.4886	0.5294	0.5702	0.6111	0.6520	0.6929	0.7339	19.2
27.1-29.0	29.7- 31.8	0.0591	0.1040	0.1500	0.1967	0.2438	0.2913	0.3390	0.3869	0.4349	0.4831	0.5313	0.5796	0.6280	0.6765	0.7250	0.7736	0.8222	0.8708	20.0
29.1-31.0	32.0- 34.2	0.0688	0.1210	0.1744	0.2287	0.2836	0.3389	0.3944	0.4502	0.5061	0.5622	0.6185	0.6748	0.7312	0.7877	0.8442	0.9008	0.9575	1.0142	20.7
31.1-33.0	34.3- 36.5	0.0789	0.1387	0.2000	0.2622	0.3252	0.3886	0.4524	0.5165	0.5807	0.6452	0.7098	0.7745	0.8393	0.9042	0.9692	1.0342	1.0993	1.1645	21.3
33.1-35.0	36.6- 38.9	0.0895	0.1572	0.2267	0.2973	0.3687	0.4407	0.5131	0.5859	0.6589	0.7321	0.8055	0.8790	0.9527	1.0264	1.1003	1.1742	1.2482	1.3223	21.8
35.1-37.0	39.0- 41.3	0.1006	0.1766	0.2546	0.3340	0.4142	0.4952	0.5767	0.6586	0.7407	0.8232	0.9058	0.9886	1.0715	1.1546	1.2378	1.3210	1.4044	1.4879	22.3
37.1-39.0	41.4- 43.8	0.1122	0.1970	0.2838	0.3723	0.4619	0.5522	0.6432	0.7346	0.8264	0.9185	1.0108	1.1033	1.1960	1.2888	1.3818	1.4749	1.5681	1.6614	22.7
39.1-41.0	43.9- 46.2	0.1244	0.2182	0.3144	0.4124	0.5116	0.6118	0.7127	0.8141	0.9160	1.0182	1.1206	1.2233	1.3263	1.4293	1.5326	1.6360	1.7395	1.8431	23.0
41.1-43.0	46.4- 48.7	0.1373	0.2405	0.3464	0.4542	0.5636	0.6741	0.7853	0.8972	1.0096	1.1223	1.2354	1.3488	1.4624	1.5762	1.6902	1.8044	1.9187	2.0331	23.4
43.1-45.0	48.9- 51.3	0.1507	0.2638	0.3797	0.4979	0.6178	0.7390	0.8611	0.9839	1.1072	1.2311	1.3553	1.4798	1.6046	1.7296	1.8549	1.9803	2.1059	2.2316	23.6
45.1-47.0	51.4- 53.8	0.1649	0.2882	0.4145	0.5435	0.6744	0.8067	0.9400	1.0742	1.2090	1.3444	1.4802	1.6164	1.7529	1.8896	2.0266	2.1638	2.3012	2.4388	23.9
47.1-49.0	53.9- 56.4	0.1797	0.3137	0.4509	0.5910	0.7332	0.8771	1.0222	1.1682	1.3150	1.4624	1.6103	1.7586	1.9073	2.0563	2.2056	2.3551	2.5048	2.6547	24.1
49.1-51.0	56.5- 59.0	0.1953	0.3403	0.4888	0.6404	0.7945	0.9504	1.1077	1.2661	1.4253	1.5852	1.7457	1.9067	2.0681	2.2298	2.3918	2.5541	2.7167	2.8794	24.3
51.1-53.0	59.1- 61.6	0.2116	0.3681	0.5282	0.6919	0.8582	1.0266	1.1966	1.3678	1.5399	1.7129	1.8864	2.0606	2.2352	2.4102	2.5855	2.7611	2.9371	3.1132	24.5
53.1-55.0	61.8- 64.3	0.2287	0.3971	0.5693	0.7454	0.9244	1.1058	1.2889	1.4734	1.6589	1.8454	2.0326	2.2204	2.4087	2.5975	2.7867	2.9762	3.1660	3.3561	24.6
55.1-57.0	64.4- 67.0	0.2467	0.4274	0.6121	0.8009	0.9932	1.1879	1.3847	1.5829	1.7824	1.9829	2.1842	2.3862	2.5888	2.7919	2.9955	3.1994	3.4037	3.6083	24.7
57.1-59.0	67.1- 69.7	0.2655	0.4590	0.6566	0.8587	1.0645	1.2731	1.4840	1.6965	1.9104	2.1255	2.3415	2.5582	2.7756	2.9935	3.2120	3.4309	3.6502	3.8698	24.9
59.1-61.0	69.9- 72.5	0.2853	0.4920	0.7028	0.9186	1.1385	1.3615	1.5869	1.8142	2.0431	2.2732	2.5043	2.7363	2.9690	3.2024	3.4363	3.6707	3.9055	4.1408	24.9
61.1-63.0	72.6- 75.3	0.3060	0.5264	0.7509	0.9808	1.2151	1.4529	1.6934	1.9360	2.1804	2.4261	2.6729	2.9207	3.1693	3.4186	3.6686	3.9190	4.1700	4.4214	25.0
63.1-65.0	75.4- 78.1	0.3277	0.5623	0.8009	1.0453	1.2946	1.5477	1.8037	2.0621	2.3224	2.5842	2.8473	3.1114	3.3765	3.6423	3.9088	4.1760	4.4436	4.7117	25.1
65.1-67.0	78.2- 80.9	0.3504	0.5996	0.8528	1.1122	1.3768	1.6457	1.9178	2.1925	2.4692	2.7477	3.0276	3.3086	3.5907	3.8736	4.1573	4.4416	4.7265	5.0119	25.2
67.1-69.0	81.0- 83.8	0.3742	0.6386	0.9067	1.1815	1.4620	1.7470	2.0357	2.3272	2.6210	2.9166	3.2138	3.5123	3.8119	4.1125	4.4139	4.7160	5.0188	5.3221	25.2
69.1-71.0	83.9- 86.7	0.3992	0.6791	0.9626	1.2532	1.5500	1.8518	2.1575	2.4663	2.7777	3.0910	3.4061	3.7227	4.0404	4.3592	4.6789	4.9994	5.3206	5.6424	25.3
71.1-73.0	86.8- 89.6	0.4253	0.7214	1.0207	1.3275	1.6411	1.9600	2.2833	2.6100	2.9394	3.2711	3.6046	3.9397	4.2762	4.6137	4.9523	5.2918	5.6320	5.9730	25.3
73.1-75.0	89.7- 92.5	0.4527	0.7653	1.0809	1.4044	1.7352	2.0718	2.4132	2.7582	3.1062	3.4567	3.8093	4.1636	4.5193	4.8763	5.2344	5.5934	5.9533	6.3139	25.4
75.1-77.0	92.7- 95.5	0.4814	0.8111	1.1434	1.4840	1.8325	2.1873	2.5472	2.9111	3.2783	3.6482	4.0203	4.3943	4.7699	5.1469	5.5251	5.9043	6.2844	6.6654	25.4
77.1-79.0	95.6- 98.5	0.5115	0.8588	1.2081	1.5663	1.9329	2.3064	2.6854	3.0687	3.4556	3.8455	4.2378	4.6321	5.0282	5.4257	5.8246	6.2246	6.6256	7.0275	25.4
79.1-81.0	98.7-101.5	0.5429	0.9084	1.2753	1.6515	2.0367	2.4293	2.8278	3.2312	3.6384	4.0487	4.4617	4.8770	5.2941	5.7129	6.1331	6.5545	6.9770	7.4005	25.5

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

5.0 MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 1 TO 6, 9, 11 TO 16

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 10. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	5.9- 7.9	0.0021	0.0036	0.0052	0.0068	0.0083	0.0099	0.0115	0.0131	0.0147	0.0162	0.0178	0.0194	0.0210	0.0226	0.0242	0.0258	0.0274	0.0290	5.6
7.1- 9.0	8.0- 10.1	0.0057	0.0098	0.0139	0.0180	0.0221	0.0263	0.0304	0.0346	0.0388	0.0429	0.0471	0.0513	0.0555	0.0597	0.0638	0.0680	0.0722	0.0764	7.4
9.1-11.0	10.2- 12.2	0.0096	0.0164	0.0232	0.0301	0.0371	0.0440	0.0510	0.0580	0.0650	0.0720	0.0790	0.0860	0.0930	0.1001	0.1071	0.1142	0.1212	0.1283	9.1
11.1-13.0	12.3- 14.4	0.0139	0.0238	0.0338	0.0439	0.0541	0.0643	0.0745	0.0847	0.0950	0.1053	0.1156	0.1259	0.1362	0.1465	0.1569	0.1672	0.1776	0.1879	10.8
13.1-15.0	14.5- 16.6	0.0186	0.0321	0.0457	0.0594	0.0732	0.0871	0.1010	0.1150	0.1290	0.1430	0.1570	0.1711	0.1851	0.1992	0.2133	0.2275	0.2416	0.2557	12.4
15.1-17.0	16.7- 18.8	0.0238	0.0412	0.0588	0.0766	0.0945	0.1125	0.1306	0.1487	0.1668	0.1850	0.2033	0.2215	0.2398	0.2581	0.2765	0.2948	0.3132	0.3316	13.9
17.1-19.0	18.9- 21.0	0.0295	0.0511	0.0731	0.0954	0.1178	0.1403	0.1630	0.1857	0.2085	0.2313	0.2541	0.2770	0.3000	0.3230	0.3460	0.3690	0.3920	0.4151	15.3
19.1-21.0	21.1- 23.3	0.0356	0.0619	0.0886	0.1157	0.1430	0.1705	0.1981	0.2259	0.2536	0.2815	0.3094	0.3374	0.3654	0.3935	0.4216	0.4498	0.4779	0.5061	16.6
21.1-23.0	23.4- 25.6	0.0422	0.0734	0.1053	0.1375	0.1701	0.2029	0.2359	0.2690	0.3023	0.3356	0.3690	0.4024	0.4360	0.4695	0.5032	0.5368	0.5705	0.6043	17.8
23.1-25.0	25.7- 27.9	0.0492	0.0857	0.1230	0.1608	0.1990	0.2375	0.2762	0.3151	0.3541	0.3933	0.4325	0.4719	0.5113	0.5508	0.5903	0.6299	0.6696	0.7093	18.9
25.1-27.0	28.0- 30.2	0.0567	0.0987	0.1417	0.1854	0.2295	0.2741	0.3189	0.3639	0.4091	0.4545	0.4999	0.5455	0.5912	0.6370	0.6828	0.7287	0.7747	0.8208	19.9
27.1-29.0	30.3- 32.6	0.0646	0.1125	0.1615	0.2113	0.2617	0.3126	0.3638	0.4153	0.4670	0.5189	0.5710	0.6232	0.6755	0.7279	0.7805	0.8330	0.8857	0.9385	20.9
29.1-31.0	32.7- 34.9	0.0730	0.1270	0.1822	0.2384	0.2954	0.3529	0.4109	0.4692	0.5277	0.5865	0.6455	0.7047	0.7640	0.8234	0.8829	0.9426	1.0023	1.0621	21.7
31.1-33.0	35.0- 37.3	0.0818	0.1422	0.2039	0.2668	0.3306	0.3950	0.4600	0.5254	0.5911	0.6571	0.7234	0.7898	0.8564	0.9232	0.9900	1.0570	1.1241	1.1914	22.5
33.1-35.0	37.4- 39.7	0.0911	0.1581	0.2266	0.2963	0.3672	0.4388	0.5111	0.5839	0.6571	0.7306	0.8044	0.8784	0.9526	1.0270	1.1015	1.1762	1.2510	1.3260	23.2
35.1-37.0	39.8- 42.2	0.1009	0.1748	0.2501	0.3270	0.4052	0.4843	0.5641	0.6445	0.7254	0.8067	0.8883	0.9702	1.0523	1.1347	1.2172	1.2999	1.3827	1.4657	23.8
37.1-39.0	42.3- 44.6	0.1113	0.1922	0.2746	0.3589	0.4445	0.5313	0.6189	0.7072	0.7961	0.8854	0.9751	1.0652	1.1555	1.2460	1.3368	1.4278	1.5189	1.6102	24.4
39.1-41.0	44.7- 47.1	0.1221	0.2103	0.3000	0.3918	0.4851	0.5798	0.6754	0.7719	0.8690	0.9666	1.0647	1.1631	1.2619	1.3609	1.4602	1.5597	1.6594	1.7593	25.0
41.1-43.0	47.2- 49.6	0.1335	0.2291	0.3263	0.4257	0.5270	0.6297	0.7336	0.8384	0.9439	1.0501	1.1567	1.2638	1.3713	1.4791	1.5871	1.6955	1.8040	1.9128	25.4
43.1-45.0	49.7- 52.1	0.1454	0.2487	0.3535	0.4608	0.5701	0.6811	0.7933	0.9067	1.0209	1.1357	1.2512	1.3672	1.4836	1.6004	1.7175	1.8348	1.9525	2.0704	25.9
45.1-47.0	52.3- 54.7	0.1580	0.2691	0.3816	0.4968	0.6143	0.7337	0.8546	0.9767	1.0997	1.2235	1.3480	1.4731	1.5986	1.7246	1.8510	1.9776	2.1046	2.2318	26.3
47.1-49.0	54.8- 57.2	0.1711	0.2902	0.4106	0.5339	0.6597	0.7877	0.9173	1.0483	1.1804	1.3133	1.4470	1.5814	1.7163	1.8517	1.9875	2.1237	2.2602	2.3970	26.6
49.1-51.0	57.4- 59.8	0.1849	0.3122	0.4405	0.5720	0.7063	0.8429	0.9815	1.1215	1.2627	1.4050	1.5481	1.6919	1.8364	1.9814	2.1269	2.2727	2.4190	2.5656	26.9
51.1-53.0	60.0- 62.4	0.1993	0.3349	0.4713	0.6111	0.7539	0.8994	1.0469	1.1962	1.3468	1.4985	1.6512	1.8047	1.9588	2.1136	2.2689	2.4247	2.5809	2.7374	27.2
53.1-55.0	62.6- 65.1	0.2143	0.3585	0.5030	0.6511	0.8027	0.9570	1.1137	1.2723	1.4323	1.5937	1.7561	1.9194	2.0835	2.2482	2.4135	2.5794	2.7457	2.9124	27.5
55.1-57.0	65.2- 67.7	0.2301	0.3829	0.5357	0.6922	0.8524	1.0158	1.1818	1.3498	1.5194	1.6905	1.8628	2.0361	2.2102	2.3850	2.5605	2.7366	2.9132	3.0903	27.7
57.1-59.0	67.9- 70.4	0.2466	0.4082	0.5692	0.7342	0.9033	1.0757	1.2510	1.4286	1.6080	1.7889	1.9712	2.1545	2.3388	2.5239	2.7098	2.8963	3.0833	3.2708	28.0
59.1-61.0	70.5- 73.1	0.2639	0.4344	0.6037	0.7772	0.9551	1.1368	1.3215	1.5086	1.6979	1.8888	2.0812	2.2747	2.4693	2.6648	2.8612	3.0582	3.2558	3.4540	28.1
61.1-63.0	73.3- 75.8	0.2820	0.4614	0.6391	0.8212	1.0080	1.1989	1.3930	1.5899	1.7891	1.9901	2.1926	2.3965	2.6016	2.8076	3.0145	3.2222	3.4305	3.6395	28.3
63.1-65.0	76.0- 78.6	0.3009	0.4895	0.6755	0.8662	1.0619	1.2620	1.4657	1.6724	1.8815	2.0927	2.3056	2.5199	2.7355	2.9521	3.1697	3.3882	3.6074	3.8272	28.5
65.1-67.0	78.7- 81.3	0.3206	0.5184	0.7129	0.9121	1.1168	1.3262	1.5395	1.7560	1.9752	2.1966	2.4198	2.6447	2.8709	3.0983	3.3267	3.5560	3.7861	4.0170	28.6
67.1-69.0	81.5- 84.1	0.3412	0.5484	0.7512	0.9590	1.1727	1.3913	1.6143	1.8407	2.0700	2.3017	2.5354	2.7708	3.0077	3.2459	3.4853	3.7256	3.9668	4.2088	28.8
69.1-71.0	84.3- 86.9	0.3628	0.5794	0.7906	1.0070	1.2295	1.4575	1.6901	1.9264	2.1659	2.4079	2.6521	2.8982	3.1459	3.3950	3.6454	3.8967	4.1491	4.4023	28.9
71.1-73.0	87.1- 89.8	0.3853	0.6114	0.8309	1.0559	1.2873	1.5247	1.7669	2.0132	2.2628	2.5152	2.7700	3.0269	3.2854	3.5455	3.8069	4.0694	4.3330	4.5975	29.0
73.1-75.0	89.9- 92.6	0.4088	0.6445	0.8723	1.1057	1.3461	1.5928	1.8447	2.1009	2.3607	2.6236	2.8890	3.1566	3.4261	3.6972	3.9697	4.2434	4.5183	4.7942	29.1
75.1-77.0	92.8- 95.5	0.4334	0.6787	0.9148	1.1566	1.4059	1.6618	1.9234	2.1896	2.4597	2.7330	3.0090	3.2874	3.5679	3.8500	4.1337	4.4187	4.7050	4.9923	29.2
77.1-79.0	95.7- 98.4	0.4590	0.7140	0.9583	1.2085	1.4666	1.7318	2.0030	2.2792	2.5595	2.8433	3.1300	3.4193	3.7107	4.0039	4.2988	4.5952	4.8929	5.1917	29.2
79.1-81.0	98.6-101.3	0.4858	0.7505	1.0029	1.2615	1.5283	1.8027	2.0835	2.3697	2.6602	2.9545	3.2519	3.5520	3.8544	4.1588	4.4650	4.7728	5.0819	5.3922	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 11. Merchantable volume (m^3) from 0.30 m stump height to 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.0- 10.1	0.0028	0.0048	0.0069	0.0089	0.0110	0.0130	0.0151	0.0171	0.0192	0.0213	0.0233	0.0254	0.0275	0.0296	0.0316	0.0337	0.0358	0.0379	7.4
9.1-11.0	10.2- 12.2	0.0076	0.0131	0.0188	0.0245	0.0302	0.0360	0.0417	0.0475	0.0533	0.0591	0.0649	0.0708	0.0766	0.0824	0.0882	0.0941	0.0999	0.1058	9.1
11.1-13.0	12.3- 14.4	0.0123	0.0212	0.0304	0.0395	0.0488	0.0581	0.0674	0.0767	0.0861	0.0954	0.1048	0.1142	0.1236	0.1330	0.1425	0.1519	0.1613	0.1708	10.8
13.1-15.0	14.5- 16.6	0.0173	0.0299	0.0428	0.0558	0.0688	0.0820	0.0951	0.1084	0.1216	0.1349	0.1482	0.1615	0.1748	0.1881	0.2015	0.2149	0.2282	0.2416	12.4
15.1-17.0	16.7- 18.8	0.0226	0.0393	0.0563	0.0734	0.0907	0.1081	0.1255	0.1430	0.1605	0.1781	0.1957	0.2133	0.2310	0.2486	0.2663	0.2840	0.3018	0.3195	13.9
17.1-19.0	18.9- 21.0	0.0284	0.0494	0.0709	0.0926	0.1144	0.1364	0.1585	0.1807	0.2029	0.2252	0.2475	0.2698	0.2922	0.3146	0.3371	0.3596	0.3821	0.4046	15.3
19.1-21.0	21.1- 23.3	0.0346	0.0603	0.0866	0.1132	0.1400	0.1670	0.1941	0.2213	0.2486	0.2760	0.3035	0.3310	0.3585	0.3861	0.4137	0.4414	0.4691	0.4968	16.6
21.1-23.0	23.4- 25.6	0.0413	0.0720	0.1033	0.1352	0.1673	0.1997	0.2322	0.2649	0.2977	0.3306	0.3636	0.3966	0.4297	0.4628	0.4960	0.5293	0.5625	0.5959	17.8
23.1-25.0	25.7- 27.9	0.0483	0.0844	0.1212	0.1586	0.1964	0.2345	0.2728	0.3113	0.3499	0.3887	0.4276	0.4665	0.5055	0.5446	0.5838	0.6230	0.6623	0.7016	18.9
25.1-27.0	28.0- 30.2	0.0558	0.0975	0.1400	0.1833	0.2271	0.2712	0.3157	0.3603	0.4052	0.4502	0.4953	0.5406	0.5859	0.6313	0.6768	0.7224	0.7680	0.8137	19.9
27.1-29.0	30.3- 32.6	0.0638	0.1113	0.1598	0.2093	0.2593	0.3099	0.3608	0.4119	0.4633	0.5149	0.5667	0.6186	0.6706	0.7227	0.7748	0.8271	0.8795	0.9319	20.9
29.1-31.0	32.7- 34.9	0.0722	0.1258	0.1807	0.2365	0.2932	0.3504	0.4080	0.4660	0.5243	0.5828	0.6415	0.7003	0.7593	0.8184	0.8777	0.9370	0.9964	1.0559	21.7
31.1-33.0	35.0- 37.3	0.0811	0.1411	0.2024	0.2650	0.3284	0.3926	0.4573	0.5224	0.5878	0.6536	0.7195	0.7857	0.8520	0.9184	0.9851	1.0518	1.1186	1.1855	22.5
33.1-35.0	37.4- 39.7	0.0904	0.1570	0.2251	0.2946	0.3651	0.4365	0.5085	0.5810	0.6539	0.7271	0.8007	0.8744	0.9484	1.0225	1.0968	1.1712	1.2458	1.3204	23.2
35.1-37.0	39.8- 42.2	0.1002	0.1737	0.2487	0.3253	0.4032	0.4820	0.5616	0.6417	0.7224	0.8034	0.8848	0.9664	1.0483	1.1304	1.2126	1.2951	1.3777	1.4604	23.8
37.1-39.0	42.3- 44.6	0.1106	0.1911	0.2733	0.3572	0.4426	0.5291	0.6164	0.7045	0.7931	0.8822	0.9717	1.0615	1.1516	1.2419	1.3324	1.4232	1.5141	1.6051	24.4
39.1-41.0	44.7- 47.1	0.1214	0.2093	0.2987	0.3901	0.4832	0.5776	0.6730	0.7692	0.8661	0.9635	1.0613	1.1595	1.2581	1.3569	1.4560	1.5553	1.6548	1.7544	25.0
41.1-43.0	47.2- 49.6	0.1329	0.2281	0.3250	0.4241	0.5251	0.6276	0.7312	0.8358	0.9411	1.0470	1.1535	1.2603	1.3676	1.4752	1.5830	1.6911	1.7995	1.9080	25.4
43.1-45.0	49.7- 52.1	0.1448	0.2478	0.3523	0.4592	0.5682	0.6790	0.7910	0.9041	1.0181	1.1328	1.2480	1.3638	1.4800	1.5965	1.7134	1.8306	1.9481	2.0657	25.9
45.1-47.0	52.3- 54.7	0.1574	0.2681	0.3804	0.4953	0.6125	0.7317	0.8523	0.9742	1.0970	1.2206	1.3449	1.4698	1.5951	1.7209	1.8470	1.9735	2.1003	2.2273	26.3
47.1-49.0	54.8- 57.2	0.1705	0.2893	0.4094	0.5324	0.6580	0.7857	0.9151	1.0458	1.1777	1.3104	1.4440	1.5781	1.7128	1.8480	1.9836	2.1196	2.2559	2.3925	26.6
49.1-51.0	57.4- 59.8	0.1843	0.3112	0.4393	0.5705	0.7045	0.8409	0.9792	1.1190	1.2601	1.4022	1.5451	1.6887	1.8330	1.9778	2.1230	2.2687	2.4148	2.5612	26.9
51.1-53.0	60.0- 62.4	0.1987	0.3340	0.4701	0.6096	0.7522	0.8974	1.0447	1.1937	1.3441	1.4957	1.6482	1.8015	1.9554	2.1100	2.2652	2.4207	2.5768	2.7331	27.2
53.1-55.0	62.6- 65.1	0.2138	0.3576	0.5018	0.6496	0.8009	0.9551	1.1115	1.2699	1.4297	1.5909	1.7531	1.9162	2.0801	2.2447	2.4098	2.5755	2.7416	2.9081	27.5
55.1-57.0	65.2- 67.7	0.2296	0.3820	0.5345	0.6907	0.8507	1.0139	1.1796	1.3474	1.5169	1.6877	1.8598	2.0329	2.2068	2.3815	2.5568	2.7327	2.9091	3.0860	27.7
57.1-59.0	67.9- 70.4	0.2461	0.4073	0.5680	0.7328	0.9016	1.0738	1.2488	1.4262	1.6054	1.7861	1.9682	2.1514	2.3355	2.5204	2.7061	2.8924	3.0792	3.2666	28.0
59.1-61.0	70.5- 73.1	0.2634	0.4335	0.6025	0.7758	0.9534	1.1348	1.3193	1.5063	1.6953	1.8860	2.0782	2.2716	2.4660	2.6613	2.8575	3.0543	3.2517	3.4498	28.1
61.1-63.0	73.3- 75.8	0.2815	0.4606	0.6380	0.8198	1.0063	1.1969	1.3909	1.5875	1.7865	1.9873	2.1897	2.3934	2.5982	2.8041	3.0108	3.2183	3.4265	3.6353	28.3
63.1-65.0	76.0- 78.6	0.3003	0.4886	0.6744	0.8647	1.0602	1.2600	1.4635	1.6700	1.8789	2.0899	2.3026	2.5167	2.7321	2.9486	3.1660	3.3843	3.6033	3.8230	28.5
65.1-67.0	78.7- 81.3	0.3201	0.5176	0.7117	0.9107	1.1151	1.3242	1.5373	1.7536	1.9726	2.1938	2.4168	2.6415	2.8675	3.0947	3.3230	3.5521	3.7821	4.0128	28.6
67.1-69.0	81.5- 84.1	0.3407	0.5476	0.7501	0.9576	1.1709	1.3894	1.6121	1.8383	2.0674	2.2989	2.5324	2.7676	3.0044	3.2424	3.4816	3.7217	3.9627	4.2045	28.8
69.1-71.0	84.3- 86.9	0.3623	0.5785	0.7894	1.0055	1.2278	1.4556	1.6879	1.9240	2.1632	2.4051	2.6491	2.8950	3.1426	3.3915	3.6416	3.8928	4.1450	4.3980	28.9
71.1-73.0	87.1- 89.8	0.3848	0.6106	0.8298	1.0544	1.2856	1.5227	1.7647	2.0107	2.2602	2.5124	2.7670	3.0236	3.2820	3.5419	3.8031	4.0655	4.3289	4.5932	29.0
73.1-75.0	89.9- 92.6	0.4083	0.6437	0.8712	1.1043	1.3444	1.5908	1.8424	2.0985	2.3581	2.6208	2.8860	3.1534	3.4227	3.6936	3.9659	4.2395	4.5142	4.7899	29.1
75.1-77.0	92.8- 95.5	0.4329	0.6779	0.9136	1.1552	1.4042	1.6598	1.9211	2.1871	2.4570	2.7301	3.0060	3.2842	3.5644	3.8464	4.1299	4.4148	4.7008	4.9879	29.2
77.1-79.0	95.7- 98.4	0.4585	0.7132	0.9572	1.2071	1.4649	1.7298	2.0007	2.2767	2.5568	2.8404	3.1269	3.4159	3.7072	4.0003	4.2950	4.5912	4.8887	5.1873	29.2
79.1-81.0	98.6-101.3	0.4853	0.7497	1.0018	1.2600	1.5266	1.8007	2.0813	2.3671	2.6575	2.9515	3.2487	3.5487	3.8509	4.1551	4.4611	4.7687	5.0776	5.3878	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

Table 12. Merchantable volume (m^3) from 0.30 m stump height to 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.4	0.0072	0.0125	0.0178	0.0232	0.0287	0.0341	0.0396	0.0451	0.0506	0.0561	0.0616	0.0671	0.0727	0.0782	0.0838	0.0893	0.0949	0.1005	10.8
13.1-15.0	14.5- 16.6	0.0132	0.0232	0.0333	0.0436	0.0540	0.0644	0.0749	0.0854	0.0960	0.1065	0.1171	0.1277	0.1384	0.1490	0.1597	0.1703	0.1810	0.1917	12.4
15.1-17.0	16.7- 18.8	0.0192	0.0336	0.0484	0.0634	0.0785	0.0937	0.1089	0.1242	0.1396	0.1550	0.1704	0.1859	0.2013	0.2168	0.2323	0.2479	0.2634	0.2790	13.9
17.1-19.0	18.9- 21.0	0.0254	0.0445	0.0640	0.0838	0.1038	0.1240	0.1442	0.1645	0.1849	0.2053	0.2258	0.2463	0.2668	0.2874	0.3080	0.3286	0.3493	0.3699	15.3
19.1-21.0	21.1- 23.3	0.0319	0.0559	0.0804	0.1054	0.1306	0.1559	0.1814	0.2070	0.2327	0.2585	0.2843	0.3102	0.3361	0.3621	0.3881	0.4141	0.4402	0.4662	16.6
21.1-23.0	23.4- 25.6	0.0387	0.0679	0.0978	0.1281	0.1588	0.1897	0.2208	0.2520	0.2834	0.3148	0.3463	0.3779	0.4096	0.4413	0.4730	0.5048	0.5366	0.5685	17.8
23.1-25.0	25.7- 27.9	0.0460	0.0806	0.1160	0.1520	0.1885	0.2253	0.2623	0.2995	0.3368	0.3743	0.4118	0.4495	0.4872	0.5250	0.5628	0.6007	0.6387	0.6767	18.9
25.1-27.0	28.0- 30.2	0.0536	0.0939	0.1352	0.1772	0.2197	0.2627	0.3059	0.3494	0.3931	0.4369	0.4808	0.5249	0.5690	0.6132	0.6575	0.7019	0.7463	0.7908	19.9
27.1-29.0	30.3- 32.6	0.0617	0.1079	0.1553	0.2036	0.2525	0.3019	0.3517	0.4017	0.4520	0.5025	0.5532	0.6039	0.6548	0.7058	0.7569	0.8081	0.8594	0.9107	20.9
29.1-31.0	32.7- 34.9	0.0702	0.1227	0.1763	0.2311	0.2867	0.3428	0.3994	0.4564	0.5136	0.5711	0.6288	0.6866	0.7446	0.8027	0.8609	0.9192	0.9776	1.0361	21.7
31.1-33.0	35.0- 37.3	0.0792	0.1380	0.1983	0.2598	0.3222	0.3854	0.4491	0.5133	0.5777	0.6425	0.7075	0.7727	0.8381	0.9036	0.9693	1.0351	1.1010	1.1669	22.5
33.1-35.0	37.4- 39.7	0.0886	0.1541	0.2212	0.2896	0.3592	0.4296	0.5007	0.5723	0.6443	0.7167	0.7893	0.8621	0.9352	1.0085	1.0819	1.1554	1.2291	1.3029	23.2
35.1-37.0	39.8- 42.2	0.0985	0.1709	0.2449	0.3206	0.3975	0.4754	0.5541	0.6334	0.7132	0.7934	0.8739	0.9547	1.0357	1.1170	1.1984	1.2801	1.3618	1.4437	23.8
37.1-39.0	42.3- 44.6	0.1089	0.1884	0.2696	0.3526	0.4371	0.5227	0.6093	0.6965	0.7843	0.8726	0.9613	1.0503	1.1396	1.2291	1.3189	1.4088	1.4989	1.5892	24.4
39.1-41.0	44.7- 47.1	0.1198	0.2066	0.2951	0.3857	0.4779	0.5715	0.6661	0.7615	0.8576	0.9542	1.0513	1.1487	1.2465	1.3446	1.4429	1.5415	1.6402	1.7392	25.0
41.1-43.0	47.2- 49.6	0.1313	0.2256	0.3216	0.4198	0.5200	0.6216	0.7245	0.8283	0.9329	1.0380	1.1438	1.2499	1.3564	1.4633	1.5705	1.6779	1.7855	1.8933	25.4
43.1-45.0	49.7- 52.1	0.1433	0.2453	0.3489	0.4550	0.5632	0.6732	0.7845	0.8968	1.0101	1.1241	1.2386	1.3537	1.4692	1.5851	1.7013	1.8178	1.9345	2.0515	25.9
45.1-47.0	52.3- 54.7	0.1559	0.2657	0.3771	0.4911	0.6076	0.7260	0.8459	0.9671	1.0892	1.2121	1.3357	1.4599	1.5846	1.7097	1.8352	1.9610	2.0872	2.2135	26.3
47.1-49.0	54.8- 57.2	0.1691	0.2869	0.4062	0.5283	0.6532	0.7801	0.9088	1.0389	1.1701	1.3021	1.4350	1.5685	1.7026	1.8371	1.9721	2.1075	2.2432	2.3791	26.6
49.1-51.0	57.4- 59.8	0.1829	0.3089	0.4361	0.5665	0.6998	0.8355	0.9731	1.1122	1.2526	1.3940	1.5363	1.6793	1.8230	1.9672	2.1118	2.2569	2.4024	2.5482	26.9
51.1-53.0	60.0- 62.4	0.1973	0.3317	0.4670	0.6057	0.7475	0.8921	1.0387	1.1870	1.3368	1.4877	1.6396	1.7923	1.9457	2.0997	2.2542	2.4092	2.5646	2.7204	27.2
53.1-55.0	62.6- 65.1	0.2124	0.3554	0.4988	0.6458	0.7963	0.9498	1.1056	1.2633	1.4225	1.5831	1.7447	1.9072	2.0705	2.2345	2.3990	2.5641	2.7297	2.8957	27.5
55.1-57.0	65.2- 67.7	0.2283	0.3798	0.5315	0.6869	0.8462	1.0087	1.1737	1.3409	1.5097	1.6800	1.8515	2.0240	2.1974	2.3715	2.5462	2.7216	2.8974	3.0738	27.7
57.1-59.0	67.9- 70.4	0.2448	0.4052	0.5651	0.7290	0.8971	1.0687	1.2431	1.4198	1.5984	1.7785	1.9600	2.1426	2.3262	2.5106	2.6957	2.8814	3.0677	3.2546	28.0
59.1-61.0	70.5- 73.1	0.2621	0.4314	0.5996	0.7721	0.9490	1.1297	1.3136	1.4999	1.6883	1.8785	2.0701	2.2629	2.4568	2.6516	2.8472	3.0435	3.2404	3.4379	28.1
61.1-63.0	73.3- 75.8	0.2802	0.4585	0.6351	0.8161	1.0020	1.1919	1.3852	1.5813	1.7796	1.9798	2.1817	2.3848	2.5891	2.7945	3.0007	3.2076	3.4153	3.6235	28.3
63.1-65.0	76.0- 78.6	0.2991	0.4866	0.6715	0.8611	1.0559	1.2551	1.4579	1.6638	1.8721	2.0825	2.2946	2.5082	2.7231	2.9391	3.1560	3.3737	3.5922	3.8114	28.5
65.1-67.0	78.7- 81.3	0.3189	0.5156	0.7089	0.9071	1.1108	1.3193	1.5317	1.7474	1.9658	2.1864	2.4090	2.6331	2.8586	3.0853	3.3130	3.5416	3.7711	4.0013	28.6
67.1-69.0	81.5- 84.1	0.3396	0.5456	0.7473	0.9541	1.1667	1.3845	1.6065	1.8321	2.0606	2.2916	2.5245	2.7593	2.9955	3.2330	3.4716	3.7113	3.9518	4.1931	28.8
69.1-71.0	84.3- 86.9	0.3611	0.5766	0.7867	1.0020	1.2236	1.4507	1.6824	1.9179	2.1565	2.3978	2.6413	2.8867	3.1337	3.3821	3.6318	3.8825	4.1342	4.3867	28.9
71.1-73.0	87.1- 89.8	0.3837	0.6086	0.8270	1.0509	1.2814	1.5178	1.7592	2.0046	2.2535	2.5052	2.7592	3.0153	3.2732	3.5326	3.7933	4.0552	4.3181	4.5819	29.0
73.1-75.0	89.9- 92.6	0.4072	0.6417	0.8685	1.1008	1.3402	1.5859	1.8370	2.0924	2.3514	2.6135	2.8782	3.1451	3.4139	3.6843	3.9561	4.2292	4.5034	4.7786	29.1
75.1-77.0	92.8- 95.5	0.4318	0.6759	0.9109	1.1517	1.4000	1.6550	1.9157	2.1810	2.4503	2.7229	2.9982	3.2759	3.5556	3.8371	4.1201	4.4045	4.6901	4.9767	29.2
77.1-79.0	95.7- 98.4	0.4574	0.7113	0.9545	1.2037	1.4607	1.7250	1.9953	2.2706	2.5501	2.8332	3.1192	3.4077	3.6984	3.9910	4.2852	4.5809	4.8779	5.1761	29.2
79.1-81.0	98.6-101.3	0.4842	0.7478	0.9991	1.2566	1.5224	1.7959	2.0758	2.3611	2.6508	2.9443	3.2410	3.5404	3.8421	4.1458	4.4514	4.7584	5.0669	5.3766	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 13. Merchantable volume (m^3) from 0.30 m stump height to 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.4	0.0044	0.0071	0.0095	0.0115	0.0134	0.0152	0.0168	0.0184	0.0199	0.0213	0.0228	0.0242	0.0256	0.0270	0.0283	0.0297	0.0311	0.0325	10.8
13.1-15.0	14.5- 16.6	0.0111	0.0195	0.0279	0.0365	0.0452	0.0539	0.0626	0.0714	0.0802	0.0891	0.0979	0.1068	0.1157	0.1246	0.1335	0.1424	0.1513	0.1603	12.4
15.1-17.0	16.7- 18.8	0.0175	0.0307	0.0442	0.0579	0.0718	0.0857	0.0997	0.1138	0.1279	0.1420	0.1562	0.1704	0.1846	0.1988	0.2131	0.2273	0.2416	0.2559	13.9
17.1-19.0	18.9- 21.0	0.0239	0.0420	0.0605	0.0793	0.0983	0.1174	0.1366	0.1559	0.1752	0.1946	0.2141	0.2335	0.2531	0.2726	0.2922	0.3118	0.3314	0.3510	15.3
19.1-21.0	21.1- 23.3	0.0306	0.0537	0.0774	0.1014	0.1257	0.1502	0.1748	0.1995	0.2244	0.2492	0.2742	0.2992	0.3242	0.3493	0.3744	0.3996	0.4247	0.4499	16.6
21.1-23.0	23.4- 25.6	0.0376	0.0659	0.0950	0.1245	0.1544	0.1845	0.2149	0.2453	0.2759	0.3066	0.3373	0.3681	0.3990	0.4299	0.4609	0.4919	0.5229	0.5540	17.8
23.1-25.0	25.7- 27.9	0.0449	0.0788	0.1135	0.1488	0.1845	0.2206	0.2569	0.2934	0.3300	0.3668	0.4037	0.4406	0.4776	0.5147	0.5519	0.5891	0.6263	0.6636	18.9
25.1-27.0	28.0- 30.2	0.0526	0.0922	0.1328	0.1742	0.2161	0.2584	0.3010	0.3438	0.3868	0.4300	0.4733	0.5167	0.5602	0.6038	0.6475	0.6912	0.7350	0.7789	19.9
27.1-29.0	30.3- 32.6	0.0608	0.1064	0.1531	0.2007	0.2491	0.2979	0.3471	0.3965	0.4462	0.4961	0.5462	0.5964	0.6467	0.6972	0.7477	0.7983	0.8489	0.8997	20.9
29.1-31.0	32.7- 34.9	0.0693	0.1212	0.1743	0.2284	0.2834	0.3390	0.3951	0.4515	0.5082	0.5651	0.6223	0.6796	0.7370	0.7946	0.8523	0.9100	0.9679	1.0259	21.7
31.1-33.0	35.0- 37.3	0.0783	0.1366	0.1963	0.2573	0.3192	0.3818	0.4450	0.5087	0.5727	0.6369	0.7014	0.7661	0.8310	0.8960	0.9612	1.0264	1.0918	1.1573	22.5
33.1-35.0	37.4- 39.7	0.0878	0.1528	0.2193	0.2872	0.3563	0.4262	0.4968	0.5680	0.6395	0.7113	0.7835	0.8559	0.9285	1.0013	1.0742	1.1473	1.2205	1.2938	23.2
35.1-37.0	39.8- 42.2	0.0977	0.1696	0.2431	0.3183	0.3947	0.4722	0.5504	0.6293	0.7086	0.7883	0.8684	0.9488	1.0294	1.1102	1.1912	1.2723	1.3536	1.4351	23.8
37.1-39.0	42.3- 44.6	0.1082	0.1872	0.2678	0.3504	0.4344	0.5196	0.6057	0.6925	0.7799	0.8678	0.9560	1.0446	1.1335	1.2226	1.3119	1.4014	1.4911	1.5810	24.4
39.1-41.0	44.7- 47.1	0.1191	0.2054	0.2934	0.3835	0.4753	0.5685	0.6627	0.7577	0.8533	0.9495	1.0462	1.1433	1.2407	1.3383	1.4363	1.5344	1.6328	1.7313	25.0
41.1-43.0	47.2- 49.6	0.1306	0.2244	0.3199	0.4177	0.5175	0.6187	0.7212	0.8246	0.9288	1.0336	1.1389	1.2447	1.3508	1.4573	1.5641	1.6711	1.7783	1.8858	25.4
43.1-45.0	49.7- 52.1	0.1426	0.2441	0.3473	0.4530	0.5608	0.6703	0.7813	0.8933	1.0061	1.1197	1.2339	1.3486	1.4638	1.5793	1.6951	1.8113	1.9277	2.0443	25.9
45.1-47.0	52.3- 54.7	0.1552	0.2646	0.3755	0.4892	0.6053	0.7233	0.8428	0.9636	1.0853	1.2079	1.3312	1.4550	1.5794	1.7041	1.8293	1.9547	2.0805	2.2065	26.3
47.1-49.0	54.8- 57.2	0.1684	0.2859	0.4047	0.5264	0.6509	0.7775	0.9058	1.0355	1.1663	1.2981	1.4306	1.5638	1.6975	1.8317	1.9663	2.1014	2.2367	2.3724	26.6
49.1-51.0	57.4- 59.8	0.1822	0.3079	0.4347	0.5646	0.6976	0.8329	0.9701	1.1089	1.2490	1.3901	1.5320	1.6747	1.8180	1.9619	2.1062	2.2510	2.3961	2.5416	26.9
51.1-53.0	60.0- 62.4	0.1967	0.3307	0.4656	0.6038	0.7453	0.8895	1.0358	1.1838	1.3332	1.4838	1.6354	1.7877	1.9408	2.0945	2.2487	2.4034	2.5585	2.7140	27.2
53.1-55.0	62.6- 65.1	0.2119	0.3544	0.4974	0.6440	0.7942	0.9473	1.1027	1.2601	1.4190	1.5793	1.7405	1.9028	2.0657	2.2294	2.3937	2.5585	2.7237	2.8894	27.5
55.1-57.0	65.2- 67.7	0.2277	0.3788	0.5301	0.6852	0.8441	1.0062	1.1709	1.3378	1.5063	1.6763	1.8475	2.0197	2.1927	2.3665	2.5410	2.7161	2.8916	3.0677	27.7
57.1-59.0	67.9- 70.4	0.2443	0.4042	0.5637	0.7273	0.8950	1.0663	1.2403	1.4167	1.5950	1.7749	1.9560	2.1383	2.3216	2.5057	2.6905	2.8760	3.0620	3.2486	28.0
59.1-61.0	70.5- 73.1	0.2616	0.4304	0.5983	0.7704	0.9470	1.1274	1.3109	1.4969	1.6850	1.8749	2.0662	2.2587	2.4523	2.6468	2.8421	3.0382	3.2348	3.4320	28.1
61.1-63.0	73.3- 75.8	0.2797	0.4576	0.6338	0.8145	0.9999	1.1895	1.3825	1.5783	1.7763	1.9763	2.1778	2.3807	2.5847	2.7898	2.9957	3.2024	3.4098	3.6178	28.3
63.1-65.0	76.0- 78.6	0.2986	0.4856	0.6702	0.8595	1.0539	1.2528	1.4553	1.6609	1.8689	2.0790	2.2908	2.5042	2.7187	2.9344	3.1511	3.3686	3.5868	3.8057	28.5
65.1-67.0	78.7- 81.3	0.3184	0.5147	0.7076	0.9055	1.1088	1.3170	1.5291	1.7445	1.9626	2.1830	2.4052	2.6290	2.8543	3.0807	3.3082	3.5366	3.7658	3.9957	28.6
67.1-69.0	81.5- 84.1	0.3390	0.5447	0.7460	0.9525	1.1648	1.3822	1.6040	1.8293	2.0575	2.2881	2.5208	2.7553	2.9912	3.2285	3.4669	3.7062	3.9465	4.1876	28.8
69.1-71.0	84.3- 86.9	0.3606	0.5757	0.7854	1.0004	1.2217	1.4484	1.6798	1.9150	2.1534	2.3944	2.6376	2.8828	3.1295	3.3777	3.6270	3.8775	4.1289	4.3812	28.9
71.1-73.0	87.1- 89.8	0.3832	0.6078	0.8258	1.0493	1.2795	1.5156	1.7567	2.0018	2.2504	2.5018	2.7556	3.0114	3.2690	3.5281	3.7886	4.0502	4.3129	4.5765	29.0
73.1-75.0	89.9- 92.6	0.4067	0.6409	0.8673	1.0993	1.3383	1.5837	1.8345	2.0896	2.3484	2.6102	2.8746	3.1412	3.4097	3.6799	3.9515	4.2243	4.4983	4.7732	29.1
75.1-77.0	92.8- 95.5	0.4313	0.6751	0.9097	1.1502	1.3981	1.6528	1.9132	2.1783	2.4473	2.7196	2.9946	3.2720	3.5515	3.8327	4.1155	4.3996	4.6850	4.9714	29.2
77.1-79.0	95.7- 98.4	0.4570	0.7105	0.9533	1.2021	1.4589	1.7228	1.9928	2.2679	2.5471	2.8299	3.1156	3.4038	3.6943	3.9866	4.2806	4.5761	4.8729	5.1708	29.2
79.1-81.0	98.6-101.3	0.4838	0.7470	0.9979	1.2551	1.5206	1.7937	2.0734	2.3583	2.6478	2.9410	3.2374	3.5366	3.8380	4.1415	4.4468	4.7536	5.0618	5.3713	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 14. Merchantable volume (m^3) from 0.30 m stump height to 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.5- 16.6	0.0055	0.0085	0.0108	0.0126	0.0141	0.0154	0.0165	0.0176	0.0187	0.0198	0.0209	0.0220	0.0231	0.0243	0.0254	0.0266	0.0278	0.0290	12.4
15.1-17.0	16.7- 18.8	0.0130	0.0225	0.0321	0.0418	0.0516	0.0614	0.0713	0.0812	0.0911	0.1011	0.1111	0.1211	0.1312	0.1412	0.1513	0.1614	0.1715	0.1816	13.9
17.1-19.0	18.9- 21.0	0.0201	0.0353	0.0508	0.0665	0.0825	0.0986	0.1147	0.1310	0.1473	0.1636	0.1800	0.1965	0.2129	0.2294	0.2459	0.2625	0.2790	0.2956	15.3
19.1-21.0	21.1- 23.3	0.0272	0.0479	0.0691	0.0906	0.1124	0.1344	0.1565	0.1787	0.2010	0.2234	0.2459	0.2684	0.2909	0.3135	0.3361	0.3587	0.3814	0.4041	16.6
21.1-23.0	23.4- 25.6	0.0346	0.0608	0.0876	0.1150	0.1427	0.1707	0.1989	0.2272	0.2556	0.2841	0.3127	0.3413	0.3700	0.3988	0.4276	0.4564	0.4853	0.5142	17.8
23.1-25.0	25.7- 27.9	0.0422	0.0741	0.1068	0.1402	0.1740	0.2082	0.2425	0.2771	0.3118	0.3467	0.3816	0.4167	0.4518	0.4869	0.5222	0.5575	0.5928	0.6282	18.9
25.1-27.0	28.0- 30.2	0.0501	0.0879	0.1267	0.1663	0.2065	0.2470	0.2879	0.3290	0.3703	0.4117	0.4533	0.4950	0.5367	0.5786	0.6205	0.6625	0.7046	0.7467	19.9
27.1-29.0	30.3- 32.6	0.0584	0.1023	0.1474	0.1934	0.2401	0.2873	0.3349	0.3828	0.4309	0.4793	0.5277	0.5764	0.6251	0.6739	0.7228	0.7718	0.8209	0.8701	20.9
29.1-31.0	32.7- 34.9	0.0671	0.1174	0.1689	0.2216	0.2751	0.3292	0.3838	0.4387	0.4940	0.5494	0.6051	0.6609	0.7169	0.7730	0.8292	0.8855	0.9419	0.9984	21.7
31.1-33.0	35.0- 37.3	0.0762	0.1331	0.1913	0.2508	0.3113	0.3726	0.4344	0.4967	0.5593	0.6222	0.6853	0.7486	0.8121	0.8758	0.9396	1.0035	1.0675	1.1316	22.5
33.1-35.0	37.4- 39.7	0.0858	0.1494	0.2145	0.2811	0.3489	0.4175	0.4868	0.5566	0.6268	0.6974	0.7683	0.8394	0.9107	0.9822	1.0539	1.1256	1.1976	1.2696	23.2
35.1-37.0	39.8- 42.2	0.0958	0.1664	0.2386	0.3124	0.3876	0.4638	0.5408	0.6184	0.6966	0.7751	0.8540	0.9331	1.0125	1.0921	1.1719	1.2519	1.3320	1.4122	23.8
37.1-39.0	42.3- 44.6	0.1063	0.1841	0.2635	0.3448	0.4276	0.5116	0.5965	0.6822	0.7684	0.8551	0.9422	1.0297	1.1174	1.2054	1.2936	1.3820	1.4705	1.5593	24.4
39.1-41.0	44.7- 47.1	0.1174	0.2024	0.2892	0.3781	0.4688	0.5608	0.6538	0.7477	0.8423	0.9374	1.0330	1.1290	1.2253	1.3219	1.4188	1.5158	1.6131	1.7106	25.0
41.1-43.0	47.2- 49.6	0.1289	0.2215	0.3159	0.4125	0.5112	0.6113	0.7127	0.8151	0.9182	1.0219	1.1262	1.2309	1.3361	1.4415	1.5473	1.6533	1.7595	1.8659	25.4
43.1-45.0	49.7- 52.1	0.1410	0.2413	0.3434	0.4479	0.5547	0.6632	0.7731	0.8840	0.9959	1.1085	1.2217	1.3354	1.4496	1.5641	1.6789	1.7941	1.9095	2.0252	25.9
45.1-47.0	52.3- 54.7	0.1536	0.2619	0.3717	0.4843	0.5993	0.7163	0.8349	0.9546	1.0754	1.1971	1.3194	1.4422	1.5656	1.6895	1.8137	1.9382	2.0630	2.1881	26.3
47.1-49.0	54.8- 57.2	0.1669	0.2832	0.4009	0.5217	0.6451	0.7707	0.8981	1.0268	1.1567	1.2875	1.4191	1.5514	1.6842	1.8175	1.9512	2.0854	2.2198	2.3546	26.6
49.1-51.0	57.4- 59.8	0.1808	0.3053	0.4311	0.5600	0.6919	0.8263	0.9626	1.1005	1.2396	1.3798	1.5209	1.6627	1.8051	1.9481	2.0916	2.2355	2.3797	2.5243	26.9
51.1-53.0	60.0- 62.4	0.1953	0.3282	0.4620	0.5993	0.7399	0.8831	1.0285	1.1756	1.3241	1.4738	1.6245	1.7760	1.9282	2.0811	2.2345	2.3883	2.5426	2.6972	27.2
53.1-55.0	62.6- 65.1	0.2105	0.3519	0.4939	0.6396	0.7888	0.9410	1.0956	1.2521	1.4101	1.5695	1.7299	1.8913	2.0535	2.2163	2.3798	2.5438	2.7082	2.8731	27.5
55.1-57.0	65.2- 67.7	0.2263	0.3765	0.5267	0.6808	0.8388	1.0001	1.1639	1.3299	1.4976	1.6667	1.8371	2.0085	2.1807	2.3538	2.5274	2.7017	2.8765	3.0517	27.7
57.1-59.0	67.9- 70.4	0.2429	0.4019	0.5604	0.7231	0.8899	1.0602	1.2334	1.4090	1.5864	1.7655	1.9459	2.1274	2.3099	2.4932	2.6773	2.8620	3.0472	3.2330	28.0
59.1-61.0	70.5- 73.1	0.2603	0.4282	0.5950	0.7662	0.9419	1.1214	1.3041	1.4893	1.6766	1.8657	2.0562	2.2480	2.4408	2.6346	2.8291	3.0244	3.2203	3.4168	28.1
61.1-63.0	73.3- 75.8	0.2784	0.4553	0.6306	0.8103	0.9949	1.1837	1.3759	1.5708	1.7681	1.9672	2.1680	2.3701	2.5734	2.7777	2.9829	3.1889	3.3955	3.6028	28.3
63.1-65.0	76.0- 78.6	0.2974	0.4834	0.6671	0.8554	1.0490	1.2470	1.4487	1.6535	1.8607	2.0701	2.2812	2.4938	2.7076	2.9226	3.1385	3.3553	3.5728	3.7910	28.5
65.1-67.0	78.7- 81.3	0.3172	0.5125	0.7045	0.9015	1.1040	1.3113	1.5226	1.7373	1.9546	2.1742	2.3957	2.6188	2.8433	3.0690	3.2958	3.5235	3.7520	3.9812	28.6
67.1-69.0	81.5- 84.1	0.3379	0.5426	0.7430	0.9485	1.1600	1.3766	1.5976	1.8221	2.0495	2.2795	2.5114	2.7452	2.9804	3.2170	3.4547	3.6934	3.9330	4.1733	28.8
69.1-71.0	84.3- 86.9	0.3595	0.5736	0.7824	0.9965	1.2169	1.4429	1.6735	1.9080	2.1456	2.3859	2.6284	2.8728	3.1188	3.3663	3.6150	3.8648	4.1155	4.3672	28.9
71.1-73.0	87.1- 89.8	0.3820	0.6057	0.8229	1.0455	1.2749	1.5101	1.7504	1.9948	2.2426	2.4933	2.7464	3.0016	3.2585	3.5169	3.7767	4.0377	4.2997	4.5626	29.0
73.1-75.0	89.9- 92.6	0.4056	0.6389	0.8643	1.0955	1.3337	1.5783	1.8283	2.0826	2.3407	2.6018	2.8655	3.1314	3.3993	3.6688	3.9397	4.2119	4.4852	4.7595	29.1
75.1-77.0	92.8- 95.5	0.4302	0.6731	0.9069	1.1465	1.3936	1.6475	1.9071	2.1714	2.4397	2.7112	2.9856	3.2624	3.5411	3.8217	4.1038	4.3873	4.6720	4.9578	29.2
77.1-79.0	95.7- 98.4	0.4559	0.7085	0.9505	1.1984	1.4544	1.7175	1.9867	2.2610	2.5396	2.8216	3.1066	3.3942	3.6840	3.9757	4.2691	4.5639	4.8600	5.1573	29.2
79.1-81.0	98.6-101.3	0.4827	0.7450	0.9951	1.2514	1.5161	1.7885	2.0673	2.3516	2.6403	2.9328	3.2286	3.5270	3.8278	4.1307	4.4353	4.7415	5.0491	5.3580	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 15. Merchantable volume (m^3) from 0.30 m stump height to 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.7- 18.8	0.0068	0.0102	0.0125	0.0141	0.0152	0.0161	0.0169	0.0178	0.0187	0.0197	0.0207	0.0218	0.0229	0.0240	0.0252	0.0264	0.0277	0.0289	13.9
17.1-19.0	18.9- 21.0	0.0149	0.0256	0.0361	0.0466	0.0571	0.0677	0.0783	0.0889	0.0995	0.1102	0.1209	0.1316	0.1423	0.1531	0.1638	0.1746	0.1854	0.1962	15.3
19.1-21.0	21.1- 23.3	0.0228	0.0398	0.0571	0.0747	0.0925	0.1105	0.1286	0.1467	0.1650	0.1834	0.2017	0.2202	0.2387	0.2572	0.2757	0.2943	0.3129	0.3315	16.6
21.1-23.0	23.4- 25.6	0.0306	0.0537	0.0774	0.1015	0.1259	0.1506	0.1754	0.2005	0.2256	0.2508	0.2761	0.3014	0.3268	0.3523	0.3778	0.4033	0.4289	0.4545	17.8
23.1-25.0	25.7- 27.9	0.0386	0.0678	0.0977	0.1283	0.1592	0.1905	0.2221	0.2538	0.2857	0.3177	0.3498	0.3820	0.4143	0.4466	0.4790	0.5114	0.5439	0.5764	18.9
25.1-27.0	28.0- 30.2	0.0468	0.0822	0.1185	0.1555	0.1931	0.2312	0.2695	0.3081	0.3468	0.3857	0.4248	0.4640	0.5032	0.5426	0.5820	0.6214	0.6610	0.7005	19.9
27.1-29.0	30.3- 32.6	0.0554	0.0971	0.1398	0.1835	0.2279	0.2728	0.3181	0.3637	0.4096	0.4556	0.5018	0.5481	0.5946	0.6411	0.6878	0.7345	0.7813	0.8282	20.9
29.1-31.0	32.7- 34.9	0.0643	0.1125	0.1619	0.2124	0.2638	0.3158	0.3682	0.4211	0.4742	0.5276	0.5812	0.6349	0.6888	0.7428	0.7969	0.8511	0.9054	0.9598	21.7
31.1-33.0	35.0- 37.3	0.0736	0.1284	0.1847	0.2422	0.3007	0.3600	0.4199	0.4802	0.5408	0.6018	0.6630	0.7244	0.7860	0.8477	0.9095	0.9715	1.0336	1.0958	22.5
33.1-35.0	37.4- 39.7	0.0833	0.1450	0.2082	0.2730	0.3389	0.4056	0.4731	0.5411	0.6095	0.6783	0.7473	0.8166	0.8861	0.9558	1.0257	1.0957	1.1658	1.2360	23.2
35.1-37.0	39.8- 42.2	0.0934	0.1622	0.2326	0.3047	0.3781	0.4526	0.5279	0.6038	0.6802	0.7570	0.8342	0.9116	0.9893	1.0672	1.1453	1.2236	1.3020	1.3805	23.8
37.1-39.0	42.3- 44.6	0.1041	0.1801	0.2578	0.3374	0.4186	0.5009	0.5842	0.6682	0.7528	0.8379	0.9234	1.0093	1.0954	1.1818	1.2684	1.3552	1.4421	1.5292	24.4
39.1-41.0	44.7- 47.1	0.1152	0.1986	0.2838	0.3711	0.4601	0.5505	0.6420	0.7344	0.8274	0.9210	1.0151	1.1095	1.2043	1.2994	1.3947	1.4903	1.5860	1.6820	25.0
41.1-43.0	47.2- 49.6	0.1268	0.2179	0.3106	0.4057	0.5028	0.6015	0.7014	0.8022	0.9039	1.0062	1.1090	1.2123	1.3160	1.4200	1.5243	1.6288	1.7336	1.8386	25.4
43.1-45.0	49.7- 52.1	0.1390	0.2378	0.3383	0.4414	0.5466	0.6537	0.7621	0.8717	0.9822	1.0933	1.2052	1.3175	1.4302	1.5434	1.6569	1.7707	1.8847	1.9990	25.9
45.1-47.0	52.3- 54.7	0.1517	0.2585	0.3668	0.4779	0.5916	0.7071	0.8243	0.9427	1.0622	1.1824	1.3034	1.4250	1.5470	1.6695	1.7924	1.9156	2.0391	2.1629	26.3
47.1-49.0	54.8- 57.2	0.1650	0.2799	0.3962	0.5155	0.6376	0.7618	0.8878	1.0153	1.1438	1.2734	1.4037	1.5347	1.6662	1.7982	1.9307	2.0636	2.1968	2.3302	26.6
49.1-51.0	57.4- 59.8	0.1789	0.3021	0.4264	0.5540	0.6846	0.8177	0.9527	1.0893	1.2271	1.3661	1.5059	1.6465	1.7877	1.9294	2.0717	2.2144	2.3574	2.5008	26.9
51.1-53.0	60.0- 62.4	0.1935	0.3251	0.4575	0.5935	0.7327	0.8747	1.0188	1.1647	1.3120	1.4605	1.6100	1.7603	1.9113	2.0630	2.2152	2.3678	2.5209	2.6744	27.2
53.1-55.0	62.6- 65.1	0.2087	0.3489	0.4895	0.6339	0.7819	0.9328	1.0861	1.2414	1.3983	1.5565	1.7158	1.8760	2.0370	2.1987	2.3610	2.5239	2.6872	2.8509	27.5
55.1-57.0	65.2- 67.7	0.2247	0.3735	0.5224	0.6753	0.8320	0.9920	1.1547	1.3195	1.4860	1.6540	1.8233	1.9935	2.1647	2.3366	2.5092	2.6823	2.8560	3.0302	27.7
57.1-59.0	67.9- 70.4	0.2413	0.3990	0.5562	0.7176	0.8832	1.0524	1.2244	1.3988	1.5751	1.7531	1.9324	2.1128	2.2942	2.4764	2.6594	2.8430	3.0272	3.2120	28.0
59.1-61.0	70.5- 73.1	0.2587	0.4253	0.5909	0.7609	0.9354	1.1137	1.2952	1.4793	1.6656	1.8535	2.0430	2.2337	2.4255	2.6182	2.8117	3.0059	3.2008	3.3962	28.1
61.1-63.0	73.3- 75.8	0.2769	0.4526	0.6266	0.8051	0.9885	1.1761	1.3672	1.5610	1.7572	1.9553	2.1550	2.3561	2.5584	2.7616	2.9658	3.1708	3.3764	3.5827	28.3
63.1-65.0	76.0- 78.6	0.2958	0.4807	0.6631	0.8503	1.0427	1.2396	1.4402	1.6439	1.8501	2.0584	2.2684	2.4800	2.6929	2.9068	3.1217	3.3375	3.5541	3.7713	28.5
65.1-67.0	78.7- 81.3	0.3157	0.5099	0.7007	0.8965	1.0978	1.3040	1.5143	1.7278	1.9441	2.1627	2.3832	2.6053	2.8288	3.0535	3.2793	3.5060	3.7336	3.9619	28.6
67.1-69.0	81.5- 84.1	0.3364	0.5400	0.7392	0.9436	1.1539	1.3694	1.5893	1.8128	2.0392	2.2681	2.4991	2.7319	2.9661	3.2017	3.4385	3.6762	3.9149	4.1543	28.8
69.1-71.0	84.3- 86.9	0.3580	0.5711	0.7787	0.9917	1.2109	1.4358	1.6654	1.8988	2.1354	2.3747	2.6162	2.8597	3.1048	3.3513	3.5990	3.8479	4.0977	4.3485	28.9
71.1-73.0	87.1- 89.8	0.3806	0.6032	0.8192	1.0407	1.2689	1.5032	1.7424	1.9858	2.2326	2.4823	2.7344	2.9886	3.2446	3.5021	3.7610	4.0210	4.2821	4.5442	29.0
73.1-75.0	89.9- 92.6	0.4042	0.6364	0.8607	1.0908	1.3279	1.5714	1.8203	2.0737	2.3308	2.5909	2.8537	3.1187	3.3856	3.6541	3.9242	4.1955	4.4679	4.7413	29.1
75.1-77.0	92.8- 95.5	0.4289	0.6707	0.9033	1.1418	1.3878	1.6406	1.8992	2.1626	2.4299	2.7005	2.9739	3.2497	3.5276	3.8073	4.0885	4.3711	4.6549	4.9398	29.2
77.1-79.0	95.7- 98.4	0.4546	0.7061	0.9469	1.1938	1.4487	1.7108	1.9790	2.2523	2.5298	2.8110	3.0951	3.3817	3.6706	3.9614	4.2539	4.5479	4.8431	5.1396	29.2
79.1-81.0	98.6-101.3	0.4814	0.7427	0.9917	1.2468	1.5105	1.7818	2.0596	2.3429	2.6307	2.9223	3.2171	3.5147	3.8146	4.1165	4.4203	4.7257	5.0324	5.3404	29.3

UNDERLINED VALUES IN THE MIDDLE PORTION OF THE TABLE REPRESENT VOLUMES FOR AVERAGE HEIGHT-DIAMETER TREES.

6.0 PROVINCIAL MERCHANTABLE VOLUME TABLES

Table 16. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	6.1- 8.0	0.0024	0.0041	0.0059	0.0076	0.0094	0.0111	0.0129	0.0146	0.0164	0.0181	0.0199	0.0216	0.0234	0.0252	0.0269	0.0287	0.0305	0.0322	5.6
7.1- 9.0	8.1- 10.1	0.0063	0.0105	0.0147	0.0190	0.0233	0.0275	0.0318	0.0361	0.0404	0.0447	0.0490	0.0533	0.0576	0.0619	0.0662	0.0705	0.0748	0.0791	7.4
9.1-11.0	10.2- 12.2	0.0104	0.0173	0.0243	0.0313	0.0384	0.0454	0.0525	0.0595	0.0666	0.0737	0.0808	0.0879	0.0950	0.1021	0.1092	0.1163	0.1234	0.1306	9.2
11.1-13.0	12.3- 14.3	0.0149	0.0251	0.0352	0.0454	0.0557	0.0659	0.0762	0.0865	0.0968	0.1071	0.1174	0.1277	0.1380	0.1484	0.1587	0.1691	0.1795	0.1898	10.9
13.1-15.0	14.4- 16.4	0.0200	0.0337	0.0475	0.0614	0.0752	0.0892	0.1031	0.1170	0.1310	0.1450	0.1590	0.1730	0.1871	0.2011	0.2152	0.2292	0.2433	0.2574	12.5
15.1-17.0	16.5- 18.6	0.0257	0.0434	0.0612	0.0791	0.0971	0.1152	0.1332	0.1513	0.1694	0.1876	0.2057	0.2239	0.2421	0.2603	0.2786	0.2968	0.3151	0.3333	14.0
17.1-19.0	18.7- 20.8	0.0318	0.0539	0.0763	0.0987	0.1213	0.1439	0.1665	0.1892	0.2120	0.2347	0.2575	0.2803	0.3031	0.3260	0.3489	0.3718	0.3947	0.4176	15.3
19.1-21.0	20.9- 23.0	0.0384	0.0654	0.0927	0.1201	0.1477	0.1753	0.2030	0.2307	0.2585	0.2864	0.3142	0.3421	0.3701	0.3980	0.4260	0.4540	0.4820	0.5101	16.5
21.1-23.0	23.1- 25.2	0.0455	0.0778	0.1104	0.1433	0.1762	0.2093	0.2425	0.2758	0.3091	0.3425	0.3759	0.4093	0.4428	0.4763	0.5099	0.5434	0.5770	0.6107	17.6
23.1-25.0	25.3- 27.4	0.0531	0.0910	0.1294	0.1681	0.2070	0.2460	0.2851	0.3243	0.3636	0.4029	0.4423	0.4818	0.5213	0.5608	0.6004	0.6400	0.6796	0.7193	18.6
25.1-27.0	27.6- 29.7	0.0612	0.1051	0.1497	0.1946	0.2398	0.2852	0.3306	0.3762	0.4219	0.4677	0.5135	0.5594	0.6054	0.6514	0.6975	0.7436	0.7897	0.8359	19.5
27.1-29.0	29.8- 32.0	0.0697	0.1201	0.1713	0.2228	0.2747	0.3268	0.3791	0.4315	0.4841	0.5367	0.5894	0.6422	0.6951	0.7480	0.8010	0.8540	0.9071	0.9602	20.2
29.1-31.0	32.1- 34.4	0.0787	0.1359	0.1940	0.2527	0.3117	0.3710	0.4305	0.4902	0.5500	0.6099	0.6700	0.7301	0.7903	0.8506	0.9109	0.9713	1.0318	1.0923	20.9
31.1-33.0	34.5- 36.7	0.0882	0.1526	0.2180	0.2841	0.3506	0.4175	0.4847	0.5520	0.6196	0.6872	0.7550	0.8229	0.8909	0.9590	1.0271	1.0954	1.1637	1.2320	21.5
33.1-35.0	36.8- 39.1	0.0981	0.1701	0.2432	0.3171	0.3916	0.4665	0.5417	0.6171	0.6928	0.7686	0.8446	0.9207	0.9969	1.0732	1.1496	1.2261	1.3026	1.3792	22.1
35.1-37.0	39.2- 41.5	0.1086	0.1884	0.2696	0.3517	0.4345	0.5178	0.6015	0.6854	0.7696	0.8540	0.9386	1.0233	1.1081	1.1931	1.2782	1.3633	1.4486	1.5339	22.6
37.1-39.0	41.6- 43.9	0.1195	0.2076	0.2972	0.3879	0.4794	0.5714	0.6640	0.7568	0.8500	0.9434	1.0369	1.1307	1.2246	1.3187	1.4128	1.5071	1.6015	1.6959	23.0
39.1-41.0	44.0- 46.4	0.1309	0.2275	0.3259	0.4256	0.5261	0.6274	0.7292	0.8314	0.9339	1.0366	1.1397	1.2429	1.3463	1.4498	1.5535	1.6573	1.7612	1.8652	23.4
41.1-43.0	46.5- 48.8	0.1428	0.2484	0.3558	0.4648	0.5748	0.6856	0.7970	0.9089	1.0212	1.1338	1.2466	1.3597	1.4730	1.5865	1.7001	1.8138	1.9277	2.0418	23.7
43.1-45.0	49.0- 51.3	0.1553	0.2700	0.3870	0.5056	0.6254	0.7461	0.8676	0.9896	1.1120	1.2348	1.3579	1.4812	1.6048	1.7286	1.8526	1.9767	2.1010	2.2254	24.0
45.1-47.0	51.5- 53.9	0.1682	0.2926	0.4193	0.5478	0.6778	0.8089	0.9407	1.0732	1.2061	1.3395	1.4733	1.6073	1.7416	1.8761	2.0109	2.1458	2.2809	2.4161	24.2
47.1-49.0	54.0- 56.4	0.1817	0.3160	0.4527	0.5916	0.7321	0.8738	1.0165	1.1598	1.3037	1.4481	1.5928	1.7379	1.8834	2.0290	2.1749	2.3210	2.4674	2.6138	24.4
49.1-51.0	56.6- 59.0	0.1957	0.3402	0.4874	0.6370	0.7883	0.9410	1.0948	1.2493	1.4046	1.5603	1.7165	1.8731	2.0300	2.1872	2.3447	2.5024	2.6604	2.8185	24.6
51.1-53.0	59.1- 61.6	0.2103	0.3653	0.5232	0.6838	0.8463	1.0104	1.1757	1.3418	1.5087	1.6762	1.8443	2.0127	2.1815	2.3507	2.5202	2.6899	2.8598	3.0300	24.8
53.1-55.0	61.7- 64.2	0.2255	0.3914	0.5603	0.7321	0.9062	1.0820	1.2591	1.4372	1.6162	1.7958	1.9761	2.1568	2.3379	2.5194	2.7012	2.8833	3.0657	3.2483	25.0
55.1-57.0	64.4- 66.9	0.2412	0.4183	0.5985	0.7820	0.9679	1.1557	1.3451	1.5355	1.7269	1.9191	2.1119	2.3052	2.4990	2.6932	2.8878	3.0827	3.2779	3.4734	25.1
57.1-59.0	67.0- 69.5	0.2576	0.4462	0.6380	0.8333	1.0315	1.2317	1.4335	1.6367	1.8409	2.0459	2.2517	2.4580	2.6649	2.8722	3.0800	3.2881	3.4965	3.7052	25.2
59.1-61.0	69.7- 72.2	0.2746	0.4749	0.6787	0.8862	1.0968	1.3098	1.5245	1.7407	1.9580	2.1763	2.3954	2.6152	2.8355	3.0563	3.2776	3.4992	3.7213	3.9436	25.3
61.1-63.0	72.4- 75.0	0.2922	0.5047	0.7206	0.9407	1.1640	1.3900	1.6180	1.8476	2.0784	2.3103	2.5431	2.7766	3.0107	3.2454	3.4806	3.7163	3.9523	4.1886	25.4
63.1-65.0	75.1- 77.7	0.3105	0.5354	0.7638	0.9966	1.2331	1.4724	1.7140	1.9573	2.2020	2.4478	2.6946	2.9423	3.1906	3.4396	3.6891	3.9390	4.1894	4.4402	25.5
65.1-67.0	77.9- 80.5	0.3294	0.5671	0.8082	1.0541	1.3040	1.5570	1.8124	2.0698	2.3287	2.5888	2.8501	3.1122	3.3751	3.6387	3.9029	4.1676	4.4327	4.6983	25.6
67.1-69.0	80.6- 83.3	0.3491	0.5997	0.8539	1.1132	1.3767	1.6437	1.9133	2.1851	2.4585	2.7334	3.0094	3.2864	3.5642	3.8428	4.1220	4.4018	4.6821	4.9629	25.6
69.1-71.0	83.4- 86.1	0.3695	0.6335	0.9009	1.1738	1.4513	1.7326	2.0167	2.3032	2.5915	2.8814	3.1725	3.4647	3.7579	4.0518	4.3464	4.6417	4.9375	5.2338	25.7
71.1-73.0	86.2- 88.9	0.3906	0.6682	0.9492	1.2360	1.5278	1.8236	2.1226	2.4241	2.7277	3.0329	3.3395	3.6472	3.9560	4.2657	4.5761	4.8872	5.1989	5.5112	25.7
73.1-75.0	89.1- 91.8	0.4124	0.7041	0.9988	1.2998	1.6061	1.9168	2.2309	2.5478	2.8669	3.1878	3.5102	3.8339	4.1587	4.4844	4.8110	5.1383	5.4663	5.7949	25.8
75.1-77.0	92.0- 94.7	0.4351	0.7410	1.0498	1.3651	1.6863	2.0122	2.3417	2.6743	3.0092	3.3461	3.6847	4.0247	4.3658	4.7080	5.0511	5.3950	5.7396	6.0848	25.8
77.1-79.0	94.9- 97.6	0.4586	0.7790	1.1022	1.4321	1.7684	2.1097	2.4550	2.8035	3.1547	3.5079	3.8630	4.2196	4.5774	4.9364	5.2964	5.6572	6.0188	6.3811	25.8
79.1-81.0	97.8-100.6	0.4829	0.8182	1.1559	1.5008	1.8523	2.2094	2.5707	2.9355	3.3032	3.6731	4.0450	4.4185	4.7935	5.1696	5.5468	5.9249	6.3039	6.6835	25.9

Table 17. Merchantable volume (m^3) from 0.30 m stump height to 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.1- 10.1	0.0030	0.0053	0.0076	0.0099	0.0122	0.0145	0.0168	0.0191	0.0214	0.0237	0.0260	0.0283	0.0306	0.0330	0.0353	0.0376	0.0399	0.0423	7.4
9.1-11.0	10.2- 12.2	0.0082	0.0140	0.0199	0.0257	0.0316	0.0375	0.0434	0.0493	0.0552	0.0612	0.0671	0.0730	0.0790	0.0849	0.0909	0.0968	0.1028	0.1087	9.2
11.1-13.0	12.3- 14.3	0.0133	0.0225	0.0318	0.0411	0.0505	0.0599	0.0693	0.0787	0.0881	0.0976	0.1070	0.1165	0.1260	0.1354	0.1449	0.1544	0.1639	0.1734	10.9
13.1-15.0	14.4- 16.4	0.0186	0.0316	0.0447	0.0578	0.0710	0.0842	0.0975	0.1107	0.1240	0.1373	0.1506	0.1639	0.1772	0.1905	0.2039	0.2173	0.2306	0.2440	12.5
15.1-17.0	16.5- 18.6	0.0244	0.0415	0.0588	0.0761	0.0935	0.1109	0.1284	0.1459	0.1634	0.1810	0.1986	0.2161	0.2337	0.2514	0.2690	0.2866	0.3043	0.3220	14.0
17.1-19.0	18.7- 20.8	0.0307	0.0523	0.0741	0.0961	0.1181	0.1402	0.1623	0.1845	0.2067	0.2290	0.2512	0.2735	0.2958	0.3182	0.3405	0.3629	0.3853	0.4077	15.3
19.1-21.0	20.9- 23.0	0.0374	0.0639	0.0907	0.1177	0.1448	0.1720	0.1992	0.2265	0.2539	0.2812	0.3087	0.3361	0.3636	0.3911	0.4186	0.4461	0.4737	0.5013	16.5
21.1-23.0	23.1- 25.2	0.0446	0.0764	0.1086	0.1411	0.1736	0.2063	0.2391	0.2720	0.3049	0.3378	0.3708	0.4039	0.4370	0.4701	0.5032	0.5364	0.5696	0.6028	17.6
23.1-25.0	25.3- 27.4	0.0522	0.0898	0.1278	0.1661	0.2046	0.2432	0.2820	0.3208	0.3597	0.3987	0.4377	0.4768	0.5160	0.5551	0.5943	0.6336	0.6728	0.7121	18.6
25.1-27.0	27.6- 29.7	0.0603	0.1039	0.1482	0.1927	0.2376	0.2826	0.3278	0.3730	0.4184	0.4638	0.5093	0.5549	0.6005	0.6462	0.6919	0.7377	0.7835	0.8293	19.5
27.1-29.0	29.8- 32.0	0.0689	0.1190	0.1698	0.2210	0.2726	0.3244	0.3764	0.4285	0.4808	0.5331	0.5855	0.6380	0.6906	0.7432	0.7958	0.8486	0.9013	0.9541	20.2
29.1-31.0	32.1- 34.4	0.0779	0.1348	0.1926	0.2510	0.3097	0.3687	0.4279	0.4873	0.5469	0.6065	0.6663	0.7261	0.7861	0.8461	0.9061	0.9662	1.0264	1.0866	20.9
31.1-33.0	34.5- 36.7	0.0874	0.1515	0.2167	0.2825	0.3488	0.4154	0.4823	0.5494	0.6166	0.6841	0.7516	0.8192	0.8869	0.9547	1.0226	1.0906	1.1586	1.2267	21.5
33.1-35.0	36.8- 39.1	0.0974	0.1691	0.2419	0.3156	0.3898	0.4645	0.5394	0.6146	0.6900	0.7656	0.8413	0.9172	0.9931	1.0692	1.1453	1.2215	1.2978	1.3742	22.1
35.1-37.0	39.2- 41.5	0.1079	0.1874	0.2683	0.3502	0.4328	0.5158	0.5993	0.6830	0.7670	0.8511	0.9355	1.0199	1.1046	1.1893	1.2741	1.3590	1.4440	1.5291	22.6
37.1-39.0	41.6- 43.9	0.1188	0.2066	0.2960	0.3864	0.4777	0.5696	0.6619	0.7545	0.8475	0.9406	1.0340	1.1275	1.2212	1.3150	1.4090	1.5030	1.5971	1.6914	23.0
39.1-41.0	44.0- 46.4	0.1303	0.2266	0.3247	0.4242	0.5245	0.6256	0.7271	0.8291	0.9314	1.0340	1.1368	1.2398	1.3430	1.4463	1.5498	1.6534	1.7571	1.8609	23.4
41.1-43.0	46.5- 48.8	0.1422	0.2475	0.3547	0.4635	0.5733	0.6839	0.7951	0.9068	1.0188	1.1312	1.2439	1.3568	1.4698	1.5831	1.6965	1.8101	1.9238	2.0376	23.7
43.1-45.0	49.0- 51.3	0.1546	0.2692	0.3859	0.5042	0.6239	0.7444	0.8657	0.9875	1.1097	1.2323	1.3552	1.4784	1.6018	1.7253	1.8491	1.9731	2.0971	2.2214	24.0
45.1-47.0	51.5- 53.9	0.1676	0.2917	0.4182	0.5466	0.6764	0.8072	0.9389	1.0711	1.2039	1.3371	1.4707	1.6045	1.7386	1.8730	2.0075	2.1423	2.2772	2.4122	24.2
47.1-49.0	54.0- 56.4	0.1811	0.3151	0.4517	0.5904	0.7307	0.8722	1.0146	1.1578	1.3015	1.4457	1.5903	1.7353	1.8805	2.0260	2.1717	2.3176	2.4637	2.6100	24.4
49.1-51.0	56.6- 59.0	0.1951	0.3394	0.4863	0.6357	0.7869	0.9394	1.0930	1.2474	1.4024	1.5580	1.7141	1.8705	2.0272	2.1843	2.3416	2.4991	2.6568	2.8148	24.6
51.1-53.0	59.1- 61.6	0.2097	0.3645	0.5222	0.6826	0.8449	1.0088	1.1739	1.3399	1.5067	1.6740	1.8419	2.0101	2.1788	2.3478	2.5171	2.6866	2.8564	3.0264	24.8
53.1-55.0	61.7- 64.2	0.2249	0.3906	0.5593	0.7309	0.9048	1.0804	1.2574	1.4354	1.6142	1.7936	1.9737	2.1542	2.3352	2.5165	2.6982	2.8801	3.0623	3.2448	25.0
55.1-57.0	64.4- 66.9	0.2407	0.4175	0.5975	0.7808	0.9665	1.1542	1.3434	1.5337	1.7249	1.9169	2.1096	2.3027	2.4964	2.6904	2.8849	3.0796	3.2746	3.4699	25.1
57.1-59.0	67.0- 69.5	0.2571	0.4454	0.6370	0.8322	1.0301	1.2302	1.4319	1.6349	1.8389	2.0438	2.2494	2.4556	2.6623	2.8695	3.0770	3.2850	3.4932	3.7017	25.2
59.1-61.0	69.7- 72.2	0.2740	0.4741	0.6777	0.8851	1.0955	1.3083	1.5229	1.7389	1.9561	2.1742	2.3931	2.6127	2.8329	3.0536	3.2747	3.4962	3.7181	3.9402	25.3
61.1-63.0	72.4- 75.0	0.2917	0.5039	0.7196	0.9395	1.1627	1.3885	1.6164	1.8458	2.0765	2.3082	2.5408	2.7742	3.0082	3.2427	3.4778	3.7132	3.9491	4.1853	25.4
63.1-65.0	75.1- 77.7	0.3099	0.5346	0.7628	0.9955	1.2318	1.4710	1.7124	1.9555	2.2000	2.4458	2.6924	2.9399	3.1881	3.4369	3.6862	3.9361	4.1863	4.4369	25.5
65.1-67.0	77.9- 80.5	0.3289	0.5663	0.8073	1.0530	1.3027	1.5555	1.8108	2.0680	2.3268	2.5868	2.8479	3.1099	3.3726	3.6361	3.9001	4.1646	4.4296	4.6950	25.6
67.1-69.0	80.6- 83.3	0.3486	0.5990	0.8530	1.1120	1.3755	1.6423	1.9117	2.1833	2.4566	2.7313	3.0072	3.2840	3.5617	3.8402	4.1192	4.3989	4.6790	4.9596	25.6
69.1-71.0	83.4- 86.1	0.3689	0.6327	0.9000	1.1727	1.4501	1.7311	2.0151	2.3015	2.5896	2.8793	3.1703	3.4624	3.7554	4.0492	4.3437	4.6388	4.9344	5.2306	25.7
71.1-73.0	86.2- 88.9	0.3900	0.6675	0.9483	1.2349	1.5265	1.8222	2.1210	2.4224	2.7258	3.0308	3.3373	3.6449	3.9536	4.2631	4.5733	4.8843	5.1959	5.5080	25.7
73.1-75.0	89.1- 91.8	0.4119	0.7033	0.9979	1.2986	1.6048	1.9154	2.2293	2.5461	2.8650	3.1858	3.5080	3.8316	4.1562	4.4818	4.8083	5.1354	5.4632	5.7917	25.8
75.1-77.0	92.0- 94.7	0.4346	0.7402	1.0489	1.3640	1.6850	2.0107	2.3401	2.6725	3.0073	3.3441	3.6825	4.0224	4.3634	4.7054	5.0484	5.3921	5.7365	6.0816	25.8
77.1-79.0	94.9- 97.6	0.4581	0.7783	1.1012	1.4310	1.7671	2.1082	2.4534	2.8018	3.1528	3.5059	3.8608	4.2172	4.5750	4.9338	5.2936	5.6543	6.0157	6.3779	25.8
79.1-81.0	97.8-100.6	0.4824	0.8175	1.1549	1.4996	1.8511	2.2079	2.5691	2.9338	3.3013	3.6711	4.0428	4.4162	4.7910	5.1670	5.5440	5.9220	6.3008	6.6803	25.9

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 18. Merchantable volume (m^3) from 0.30 m stump height to 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.3	0.0074	0.0129	0.0185	0.0240	0.0296	0.0353	0.0409	0.0465	0.0522	0.0579	0.0635	0.0692	0.0749	0.0806	0.0863	0.0920	0.0977	0.1034	10.9
13.1-15.0	14.4- 16.4	0.0141	0.0244	0.0349	0.0454	0.0559	0.0665	0.0771	0.0877	0.0984	0.1091	0.1197	0.1304	0.1411	0.1518	0.1625	0.1733	0.1840	0.1947	12.5
15.1-17.0	16.5- 18.6	0.0206	0.0356	0.0507	0.0660	0.0813	0.0966	0.1120	0.1274	0.1429	0.1583	0.1738	0.1893	0.2048	0.2203	0.2358	0.2514	0.2669	0.2825	14.0
17.1-19.0	18.7- 20.8	0.0274	0.0472	0.0672	0.0874	0.1077	0.1280	0.1484	0.1688	0.1893	0.2097	0.2302	0.2508	0.2713	0.2919	0.3125	0.3331	0.3537	0.3743	15.3
19.1-21.0	20.9- 23.0	0.0344	0.0594	0.0846	0.1101	0.1356	0.1613	0.1870	0.2128	0.2386	0.2644	0.2903	0.3162	0.3422	0.3681	0.3941	0.4201	0.4461	0.4722	16.5
21.1-23.0	23.1- 25.2	0.0419	0.0723	0.1031	0.1342	0.1654	0.1967	0.2282	0.2597	0.2912	0.3228	0.3545	0.3862	0.4179	0.4496	0.4814	0.5132	0.5450	0.5769	17.6
23.1-25.0	25.3- 27.4	0.0497	0.0860	0.1227	0.1598	0.1971	0.2345	0.2720	0.3097	0.3474	0.3851	0.4229	0.4608	0.4987	0.5367	0.5746	0.6126	0.6507	0.6888	18.6
25.1-27.0	27.6- 29.7	0.0580	0.1004	0.1435	0.1869	0.2307	0.2746	0.3186	0.3628	0.4070	0.4514	0.4958	0.5402	0.5847	0.6293	0.6739	0.7185	0.7632	0.8079	19.5
27.1-29.0	29.8- 32.0	0.0667	0.1157	0.1654	0.2156	0.2662	0.3170	0.3679	0.4191	0.4703	0.5216	0.5730	0.6245	0.6760	0.7276	0.7793	0.8310	0.8827	0.9345	20.2
29.1-31.0	32.1- 34.4	0.0759	0.1317	0.1885	0.2459	0.3037	0.3617	0.4200	0.4785	0.5371	0.5958	0.6546	0.7135	0.7725	0.8316	0.8907	0.9499	1.0091	1.0684	20.9
31.1-33.0	34.5- 36.7	0.0855	0.1486	0.2128	0.2777	0.3431	0.4088	0.4748	0.5411	0.6075	0.6740	0.7407	0.8074	0.8743	0.9412	1.0082	1.0753	1.1424	1.2096	21.5
33.1-35.0	36.8- 39.1	0.0955	0.1662	0.2382	0.3110	0.3844	0.4582	0.5324	0.6068	0.6814	0.7561	0.8310	0.9061	0.9812	1.0564	1.1318	1.2072	1.2827	1.3582	22.1
35.1-37.0	39.2- 41.5	0.1061	0.1847	0.2648	0.3459	0.4276	0.5099	0.5926	0.6755	0.7588	0.8422	0.9257	1.0094	1.0933	1.1773	1.2613	1.3455	1.4297	1.5140	22.6
37.1-39.0	41.6- 43.9	0.1171	0.2040	0.2925	0.3822	0.4728	0.5639	0.6555	0.7474	0.8396	0.9321	1.0247	1.1175	1.2105	1.3036	1.3968	1.4901	1.5836	1.6771	23.0
39.1-41.0	44.0- 46.4	0.1286	0.2241	0.3214	0.4201	0.5198	0.6201	0.7210	0.8223	0.9239	1.0258	1.1280	1.2303	1.3328	1.4354	1.5382	1.6411	1.7441	1.8473	23.4
41.1-43.0	46.5- 48.8	0.1405	0.2450	0.3515	0.4595	0.5687	0.6786	0.7892	0.9002	1.0117	1.1234	1.2354	1.3476	1.4601	1.5727	1.6855	1.7984	1.9114	2.0246	23.7
43.1-45.0	49.0- 51.3	0.1530	0.2668	0.3827	0.5005	0.6194	0.7394	0.8600	0.9812	1.1028	1.2248	1.3470	1.4696	1.5924	1.7154	1.8385	1.9618	2.0853	2.2089	24.0
45.1-47.0	51.5- 53.9	0.1660	0.2894	0.4151	0.5429	0.6721	0.8023	0.9334	1.0650	1.1972	1.3299	1.4628	1.5961	1.7296	1.8634	1.9973	2.1315	2.2658	2.4002	24.2
47.1-49.0	54.0- 56.4	0.1796	0.3128	0.4487	0.5868	0.7265	0.8674	1.0093	1.1519	1.2950	1.4387	1.5827	1.7271	1.8718	2.0167	2.1618	2.3072	2.4528	2.5985	24.4
49.1-51.0	56.6- 59.0	0.1937	0.3371	0.4835	0.6322	0.7828	0.9348	1.0878	1.2417	1.3962	1.5512	1.7067	1.8626	2.0188	2.1753	2.3320	2.4890	2.6462	2.8036	24.6
51.1-53.0	59.1- 61.6	0.2083	0.3623	0.5194	0.6791	0.8410	1.0043	1.1689	1.3343	1.5005	1.6674	1.8347	2.0025	2.1706	2.3391	2.5078	2.6768	2.8461	3.0155	24.8
53.1-55.0	61.7- 64.2	0.2235	0.3884	0.5565	0.7276	0.9009	1.0760	1.2524	1.4299	1.6082	1.7872	1.9667	2.1468	2.3272	2.5081	2.6892	2.8706	3.0523	3.2342	25.0
55.1-57.0	64.4- 66.9	0.2393	0.4154	0.5948	0.7775	0.9627	1.1499	1.3385	1.5283	1.7191	1.9106	2.1028	2.2954	2.4886	2.6822	2.8761	3.0703	3.2649	3.4597	25.1
57.1-59.0	67.0- 69.5	0.2557	0.4433	0.6343	0.8289	1.0264	1.2259	1.4271	1.6296	1.8332	2.0376	2.2427	2.4485	2.6547	2.8614	3.0685	3.2759	3.4837	3.6918	25.2
59.1-61.0	69.7- 72.2	0.2727	0.4721	0.6751	0.8819	1.0918	1.3041	1.5182	1.7338	1.9505	2.1682	2.3866	2.6058	2.8255	3.0457	3.2663	3.4874	3.7088	3.9305	25.3
61.1-63.0	72.4- 75.0	0.2903	0.5019	0.7170	0.9364	1.1591	1.3844	1.6118	1.8407	2.0710	2.3023	2.5344	2.7674	3.0009	3.2350	3.4696	3.7046	3.9400	4.1758	25.4
63.1-65.0	75.1- 77.7	0.3086	0.5326	0.7602	0.9924	1.2282	1.4669	1.7078	1.9505	2.1946	2.4399	2.6861	2.9332	3.1809	3.4293	3.6782	3.9276	4.1774	4.4276	25.5
65.1-67.0	77.9- 80.5	0.3276	0.5643	0.8047	1.0499	1.2992	1.5515	1.8064	2.0631	2.3214	2.5810	2.8417	3.1033	3.3656	3.6286	3.8922	4.1563	4.4209	4.6858	25.6
67.1-69.0	80.6- 83.3	0.3473	0.5971	0.8505	1.1090	1.3719	1.6383	1.9073	2.1785	2.4514	2.7257	3.0011	3.2775	3.5548	3.8328	4.1114	4.3907	4.6704	4.9506	25.6
69.1-71.0	83.4- 86.1	0.3677	0.6308	0.8975	1.1697	1.4466	1.7272	2.0108	2.2967	2.5844	2.8737	3.1643	3.4560	3.7485	4.0419	4.3360	4.6307	4.9259	5.2217	25.7
71.1-73.0	86.2- 88.9	0.3888	0.6656	0.9458	1.2319	1.5231	1.8183	2.1167	2.4176	2.7206	3.0253	3.3313	3.6386	3.9468	4.2559	4.5658	4.8763	5.1875	5.4992	25.7
73.1-75.0	89.1- 91.8	0.4107	0.7014	0.9955	1.2957	1.6014	1.9115	2.2251	2.5414	2.8599	3.1803	3.5021	3.8253	4.1495	4.4747	4.8008	5.1275	5.4549	5.7830	25.8
75.1-77.0	92.0- 94.7	0.4334	0.7384	1.0465	1.3611	1.6816	2.0069	2.3359	2.6679	3.0023	3.3387	3.6767	4.0161	4.3567	4.6984	5.0409	5.3843	5.7283	6.0730	25.8
77.1-79.0	94.9- 97.6	0.4569	0.7764	1.0988	1.4281	1.7637	2.1044	2.4492	2.7972	3.1478	3.5005	3.8550	4.2111	4.5684	4.9268	5.2863	5.6466	6.0076	6.3693	25.8
79.1-81.0	97.8-100.6	0.4812	0.8156	1.1525	1.4968	1.8477	2.2041	2.5649	2.9292	3.2963	3.6657	4.0371	4.4101	4.7845	5.1601	5.5367	5.9143	6.2927	6.6719	25.9

Table 19. Merchantable volume (m^3) from 0.30 m stump height to 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.3	0.0038	0.0064	0.0088	0.0111	0.0132	0.0153	0.0174	0.0195	0.0215	0.0235	0.0255	0.0275	0.0295	0.0315	0.0335	0.0355	0.0375	0.0395	10.9
13.1-15.0	14.4- 16.4	0.0116	0.0202	0.0289	0.0377	0.0466	0.0554	0.0643	0.0732	0.0822	0.0911	0.1001	0.1090	0.1180	0.1270	0.1360	0.1450	0.1540	0.1630	12.5
15.1-17.0	16.5- 18.6	0.0186	0.0324	0.0462	0.0602	0.0743	0.0884	0.1026	0.1168	0.1310	0.1452	0.1594	0.1737	0.1880	0.2022	0.2165	0.2308	0.2452	0.2595	14.0
17.1-19.0	18.7- 20.8	0.0257	0.0445	0.0635	0.0827	0.1020	0.1213	0.1407	0.1601	0.1796	0.1991	0.2186	0.2381	0.2577	0.2773	0.2968	0.3164	0.3361	0.3557	15.3
19.1-21.0	20.9- 23.0	0.0330	0.0570	0.0814	0.1060	0.1307	0.1555	0.1804	0.2053	0.2303	0.2553	0.2804	0.3054	0.3305	0.3557	0.3808	0.4060	0.4311	0.4563	16.5
21.1-23.0	23.1- 25.2	0.0405	0.0702	0.1003	0.1306	0.1611	0.1917	0.2224	0.2531	0.2840	0.3148	0.3457	0.3767	0.4077	0.4387	0.4697	0.5008	0.5319	0.5630	17.6
23.1-25.0	25.3- 27.4	0.0485	0.0840	0.1201	0.1565	0.1932	0.2299	0.2668	0.3038	0.3408	0.3779	0.4151	0.4523	0.4896	0.5269	0.5642	0.6015	0.6389	0.6763	18.6
25.1-27.0	27.6- 29.7	0.0569	0.0987	0.1411	0.1840	0.2271	0.2704	0.3139	0.3574	0.4011	0.4448	0.4886	0.5325	0.5764	0.6204	0.6644	0.7085	0.7525	0.7967	19.5
27.1-29.0	29.8- 32.0	0.0657	0.1140	0.1632	0.2129	0.2629	0.3131	0.3636	0.4141	0.4648	0.5156	0.5665	0.6174	0.6684	0.7194	0.7705	0.8217	0.8729	0.9241	20.2
29.1-31.0	32.1- 34.4	0.0749	0.1302	0.1864	0.2433	0.3006	0.3582	0.4159	0.4739	0.5320	0.5902	0.6486	0.7070	0.7655	0.8240	0.8826	0.9413	1.0000	1.0588	20.9
31.1-33.0	34.5- 36.7	0.0845	0.1471	0.2108	0.2752	0.3402	0.4055	0.4710	0.5368	0.6027	0.6688	0.7350	0.8013	0.8677	0.9342	1.0007	1.0673	1.1340	1.2007	21.5
33.1-35.0	36.8- 39.1	0.0946	0.1648	0.2363	0.3087	0.3817	0.4550	0.5288	0.6027	0.6769	0.7512	0.8257	0.9003	0.9750	1.0498	1.1247	1.1997	1.2747	1.3499	22.1
35.1-37.0	39.2- 41.5	0.1052	0.1834	0.2630	0.3437	0.4250	0.5069	0.5892	0.6717	0.7545	0.8375	0.9207	1.0040	1.0875	1.1710	1.2547	1.3384	1.4223	1.5062	22.6
37.1-39.0	41.6- 43.9	0.1162	0.2027	0.2908	0.3801	0.4703	0.5610	0.6522	0.7438	0.8356	0.9277	1.0199	1.1124	1.2050	1.2977	1.3905	1.4835	1.5765	1.6696	23.0
39.1-41.0	44.0- 46.4	0.1278	0.2228	0.3198	0.4181	0.5174	0.6174	0.7179	0.8188	0.9201	1.0216	1.1234	1.2254	1.3275	1.4298	1.5322	1.6348	1.7375	1.8402	23.4
41.1-43.0	46.5- 48.8	0.1398	0.2438	0.3499	0.4576	0.5664	0.6760	0.7862	0.8969	1.0080	1.1194	1.2311	1.3430	1.4551	1.5673	1.6798	1.7923	1.9050	2.0178	23.7
43.1-45.0	49.0- 51.3	0.1523	0.2656	0.3812	0.4986	0.6172	0.7368	0.8571	0.9780	1.0993	1.2209	1.3429	1.4651	1.5876	1.7102	1.8331	1.9561	2.0792	2.2025	24.0
45.1-47.0	51.5- 53.9	0.1653	0.2883	0.4137	0.5411	0.6699	0.7999	0.9306	1.0620	1.1939	1.3262	1.4588	1.5918	1.7250	1.8585	1.9921	2.1259	2.2599	2.3941	24.2
47.1-49.0	54.0- 56.4	0.1789	0.3117	0.4473	0.5850	0.7245	0.8651	1.0066	1.1489	1.2918	1.4351	1.5789	1.7229	1.8673	2.0120	2.1568	2.3019	2.4471	2.5926	24.4
49.1-51.0	56.6- 59.0	0.1930	0.3361	0.4821	0.6305	0.7808	0.9325	1.0852	1.2388	1.3930	1.5478	1.7030	1.8586	2.0145	2.1707	2.3272	2.4839	2.6408	2.7979	24.6
51.1-53.0	59.1- 61.6	0.2076	0.3613	0.5180	0.6775	0.8390	1.0021	1.1663	1.3315	1.4975	1.6640	1.8311	1.9986	2.1665	2.3347	2.5031	2.6719	2.8408	3.0100	24.8
53.1-55.0	61.7- 64.2	0.2228	0.3874	0.5552	0.7259	0.8990	1.0738	1.2500	1.4272	1.6052	1.7839	1.9632	2.1430	2.3232	2.5038	2.6847	2.8658	3.0473	3.2289	25.0
55.1-57.0	64.4- 66.9	0.2386	0.4144	0.5935	0.7759	0.9609	1.1478	1.3361	1.5257	1.7162	1.9074	2.0993	2.2918	2.4847	2.6780	2.8717	3.0657	3.2600	3.4545	25.1
57.1-59.0	67.0- 69.5	0.2550	0.4423	0.6331	0.8274	1.0245	1.2238	1.4248	1.6270	1.8304	2.0345	2.2394	2.4449	2.6509	2.8573	3.0642	3.2714	3.4789	3.6867	25.2
59.1-61.0	69.7- 72.2	0.2721	0.4712	0.6738	0.8804	1.0900	1.3021	1.5159	1.7312	1.9477	2.1652	2.3834	2.6023	2.8218	3.0417	3.2621	3.4830	3.7041	3.9256	25.3
61.1-63.0	72.4- 75.0	0.2897	0.5009	0.7158	0.9349	1.1573	1.3824	1.6095	1.8383	2.0683	2.2993	2.5313	2.7640	2.9973	3.2311	3.4655	3.7003	3.9355	4.1710	25.4
63.1-65.0	75.1- 77.7	0.3080	0.5317	0.7590	0.9909	1.2265	1.4649	1.7056	1.9481	2.1920	2.4370	2.6830	2.9299	3.1774	3.4255	3.6742	3.9234	4.1729	4.4229	25.5
65.1-67.0	77.9- 80.5	0.3270	0.5634	0.8035	1.0485	1.2975	1.5496	1.8042	2.0607	2.3188	2.5782	2.8386	3.1000	3.3621	3.6249	3.8883	4.1521	4.4165	4.6813	25.6
67.1-69.0	80.6- 83.3	0.3467	0.5962	0.8493	1.1076	1.3703	1.6364	1.9052	2.1762	2.4488	2.7229	2.9981	3.2743	3.5514	3.8292	4.1076	4.3866	4.6661	4.9461	25.6
69.1-71.0	83.4- 86.1	0.3671	0.6299	0.8963	1.1683	1.4449	1.7253	2.0087	2.2944	2.5819	2.8710	3.1614	3.4528	3.7452	4.0383	4.3322	4.6267	4.9217	5.2173	25.7
71.1-73.0	86.2- 88.9	0.3883	0.6647	0.9447	1.2305	1.5214	1.8164	2.1146	2.4154	2.7181	3.0226	3.3284	3.6354	3.9435	4.2524	4.5621	4.8724	5.1834	5.4948	25.7
73.1-75.0	89.1- 91.8	0.4101	0.7006	0.9943	1.2943	1.5998	1.9097	2.2230	2.5391	2.8574	3.1776	3.4993	3.8222	4.1463	4.4713	4.7971	5.1237	5.4509	5.7787	25.8
75.1-77.0	92.0- 94.7	0.4328	0.7375	1.0453	1.3597	1.6800	2.0051	2.3339	2.6657	2.9999	3.3360	3.6739	4.0131	4.3535	4.6950	5.0373	5.3805	5.7243	6.0688	25.8
77.1-79.0	94.9- 97.6	0.4563	0.7756	1.0977	1.4268	1.7622	2.1026	2.4472	2.7950	3.1454	3.4979	3.8522	4.2081	4.5652	4.9235	5.2827	5.6428	6.0037	6.3652	25.8
79.1-81.0	97.8-100.6	0.4806	0.8148	1.1515	1.4954	1.8462	2.2024	2.5629	2.9270	3.2939	3.6632	4.0343	4.4071	4.7813	5.1567	5.5332	5.9106	6.2888	6.6678	25.9

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Table 20. Merchantable volume (m^3) from 0.30 m stump height to 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.4- 16.4	0.0042	0.0068	0.0089	0.0108	0.0125	0.0141	0.0158	0.0174	0.0190	0.0206	0.0222	0.0238	0.0254	0.0271	0.0287	0.0304	0.0320	0.0337	12.5
15.1-17.0	16.5- 18.6	0.0130	0.0228	0.0326	0.0425	0.0525	0.0625	0.0725	0.0826	0.0926	0.1027	0.1128	0.1230	0.1331	0.1432	0.1534	0.1635	0.1737	0.1839	14.0
17.1-19.0	18.7- 20.8	0.0211	0.0369	0.0529	0.0691	0.0853	0.1017	0.1181	0.1345	0.1510	0.1675	0.1840	0.2005	0.2171	0.2336	0.2502	0.2668	0.2834	0.3001	15.3
19.1-21.0	20.9- 23.0	0.0290	0.0506	0.0725	0.0947	0.1170	0.1393	0.1618	0.1843	0.2068	0.2294	0.2520	0.2746	0.2973	0.3200	0.3427	0.3654	0.3882	0.4109	16.5
21.1-23.0	23.1- 25.2	0.0370	0.0646	0.0925	0.1207	0.1491	0.1777	0.2063	0.2350	0.2637	0.2925	0.3214	0.3502	0.3792	0.4081	0.4370	0.4660	0.4950	0.5241	17.6
23.1-25.0	25.3- 27.4	0.0453	0.0790	0.1132	0.1478	0.1826	0.2175	0.2526	0.2877	0.3229	0.3582	0.3936	0.4289	0.4644	0.4998	0.5353	0.5709	0.6064	0.6420	18.6
25.1-27.0	27.6- 29.7	0.0540	0.0940	0.1348	0.1760	0.2175	0.2592	0.3010	0.3429	0.3850	0.4271	0.4692	0.5115	0.5538	0.5961	0.6385	0.6809	0.7233	0.7658	19.5
27.1-29.0	29.8- 32.0	0.0630	0.1098	0.1574	0.2056	0.2541	0.3028	0.3518	0.4009	0.4501	0.4994	0.5487	0.5982	0.6477	0.6973	0.7469	0.7966	0.8463	0.8960	20.2
29.1-31.0	32.1- 34.4	0.0723	0.1262	0.1810	0.2365	0.2924	0.3486	0.4050	0.4616	0.5184	0.5753	0.6322	0.6893	0.7464	0.8036	0.8609	0.9182	0.9755	1.0329	20.9
31.1-33.0	34.5- 36.7	0.0821	0.1434	0.2057	0.2689	0.3325	0.3965	0.4608	0.5253	0.5900	0.6549	0.7198	0.7848	0.8500	0.9152	0.9805	1.0458	1.1113	1.1767	21.5
33.1-35.0	36.8- 39.1	0.0924	0.1613	0.2315	0.3027	0.3745	0.4467	0.5192	0.5920	0.6650	0.7382	0.8115	0.8849	0.9585	1.0321	1.1058	1.1796	1.2535	1.3274	22.1
35.1-37.0	39.2- 41.5	0.1030	0.1800	0.2585	0.3380	0.4182	0.4990	0.5801	0.6616	0.7433	0.8252	0.9073	0.9895	1.0719	1.1543	1.2369	1.3196	1.4023	1.4851	22.6
37.1-39.0	41.6- 43.9	0.1142	0.1995	0.2865	0.3747	0.4638	0.5535	0.6437	0.7342	0.8250	0.9160	1.0073	1.0987	1.1902	1.2819	1.3737	1.4657	1.5577	1.6498	23.0
39.1-41.0	44.0- 46.4	0.1258	0.2197	0.3156	0.4129	0.5112	0.6102	0.7098	0.8097	0.9100	1.0106	1.1114	1.2124	1.3135	1.4149	1.5163	1.6179	1.7196	1.8214	23.4
41.1-43.0	46.5- 48.8	0.1379	0.2408	0.3459	0.4526	0.5605	0.6691	0.7784	0.8882	0.9984	1.1088	1.2196	1.3306	1.4418	1.5531	1.6646	1.7763	1.8880	1.9999	23.7
43.1-45.0	49.0- 51.3	0.1504	0.2627	0.3774	0.4938	0.6115	0.7302	0.8496	0.9696	1.0900	1.2108	1.3319	1.4533	1.5748	1.6966	1.8186	1.9407	2.0630	2.1854	24.0
45.1-47.0	51.5- 53.9	0.1635	0.2855	0.4099	0.5364	0.6644	0.7935	0.9234	1.0539	1.1850	1.3165	1.4483	1.5804	1.7128	1.8454	1.9782	2.1112	2.2444	2.3777	24.2
47.1-49.0	54.0- 56.4	0.1771	0.3090	0.4437	0.5806	0.7191	0.8589	0.9997	1.1412	1.2832	1.4258	1.5687	1.7120	1.8556	1.9994	2.1435	2.2878	2.4322	2.5769	24.4
49.1-51.0	56.6- 59.0	0.1913	0.3334	0.4785	0.6262	0.7756	0.9265	1.0785	1.2313	1.3847	1.5387	1.6932	1.8480	2.0032	2.1586	2.3144	2.4703	2.6264	2.7828	24.6
51.1-53.0	59.1- 61.6	0.2060	0.3587	0.5146	0.6732	0.8340	0.9963	1.1598	1.3243	1.4895	1.6553	1.8216	1.9884	2.1555	2.3230	2.4908	2.6588	2.8270	2.9955	24.8
53.1-55.0	61.7- 64.2	0.2212	0.3849	0.5518	0.7218	0.8941	1.0682	1.2436	1.4201	1.5974	1.7755	1.9541	2.1331	2.3126	2.4925	2.6727	2.8531	3.0339	3.2148	25.0
55.1-57.0	64.4- 66.9	0.2371	0.4120	0.5902	0.7719	0.9561	1.1423	1.3300	1.5188	1.7086	1.8992	2.0904	2.2822	2.4744	2.6671	2.8601	3.0534	3.2470	3.4409	25.1
57.1-59.0	67.0- 69.5	0.2535	0.4399	0.6299	0.8234	1.0199	1.2185	1.4188	1.6203	1.8230	2.0265	2.2307	2.4356	2.6409	2.8467	3.0529	3.2595	3.4663	3.6735	25.2
59.1-61.0	69.7- 72.2	0.2706	0.4688	0.6707	0.8765	1.0855	1.2968	1.5100	1.7247	1.9405	2.1573	2.3749	2.5932	2.8120	3.0314	3.2512	3.4713	3.6919	3.9127	25.3
61.1-63.0	72.4- 75.0	0.2883	0.4986	0.7127	0.9311	1.1529	1.3773	1.6038	1.8319	2.0613	2.2917	2.5230	2.7551	2.9878	3.2211	3.4548	3.6890	3.9235	4.1585	25.4
63.1-65.0	75.1- 77.7	0.3066	0.5294	0.7560	0.9872	1.2221	1.4599	1.7000	1.9418	2.1851	2.4296	2.6750	2.9212	3.1681	3.4157	3.6638	3.9123	4.1613	4.4107	25.5
65.1-67.0	77.9- 80.5	0.3256	0.5612	0.8006	1.0448	1.2932	1.5447	1.7986	2.0546	2.3121	2.5709	2.8308	3.0915	3.3531	3.6153	3.8781	4.1414	4.4051	4.6693	25.6
67.1-69.0	80.6- 83.3	0.3453	0.5940	0.8464	1.1040	1.3660	1.6316	1.8998	2.1701	2.4422	2.7157	2.9904	3.2660	3.5425	3.8197	4.0976	4.3761	4.6550	4.9344	25.6
69.1-71.0	83.4- 86.1	0.3657	0.6278	0.8935	1.1647	1.4408	1.7206	2.0033	2.2884	2.5754	2.8640	3.1538	3.4447	3.7365	4.0291	4.3224	4.6164	4.9109	5.2059	25.7
71.1-73.0	86.2- 88.9	0.3869	0.6626	0.9418	1.2270	1.5173	1.8117	2.1094	2.4095	2.7117	3.0157	3.3210	3.6274	3.9349	4.2433	4.5525	4.8623	5.1727	5.4836	25.7
73.1-75.0	89.1- 91.8	0.4088	0.6985	0.9915	1.2909	1.5958	1.9051	2.2178	2.5334	2.8512	3.1708	3.4919	3.8143	4.1379	4.4624	4.7877	5.1137	5.4404	5.7677	25.8
75.1-77.0	92.0- 94.7	0.4315	0.7355	1.0426	1.3563	1.6760	2.0005	2.3288	2.6600	2.9937	3.3293	3.6666	4.0054	4.3453	4.6862	5.0281	5.3707	5.7140	6.0580	25.8
77.1-79.0	94.9- 97.6	0.4550	0.7736	1.0950	1.4234	1.7582	2.0981	2.4421	2.7894	3.1392	3.4913	3.8451	4.2004	4.5571	4.9148	5.2736	5.6332	5.9935	6.3546	25.8
79.1-81.0	97.8-100.6	0.4794	0.8128	1.1488	1.4921	1.8423	2.1979	2.5579	2.9215	3.2879	3.6566	4.0273	4.3996	4.7733	5.1482	5.5242	5.9011	6.2789	6.6573	25.9

Table 21. Merchantable volume (m^3) from 0.30 m stump height to 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.5- 18.6	0.0048	0.0073	0.0091	0.0106	0.0120	0.0134	0.0148	0.0163	0.0177	0.0192	0.0207	0.0222	0.0238	0.0253	0.0269	0.0285	0.0300	0.0316	14.0
17.1-19.0	18.7- 20.8	0.0144	0.0251	0.0358	0.0465	0.0572	0.0679	0.0787	0.0895	0.1003	0.1111	0.1220	0.1328	0.1437	0.1546	0.1654	0.1763	0.1872	0.1981	15.3
19.1-21.0	20.9- 23.0	0.0235	0.0411	0.0591	0.0772	0.0955	0.1139	0.1323	0.1508	0.1693	0.1879	0.2065	0.2251	0.2438	0.2624	0.2811	0.2998	0.3186	0.3373	16.5
21.1-23.0	23.1- 25.2	0.0322	0.0565	0.0812	0.1062	0.1314	0.1567	0.1821	0.2075	0.2330	0.2586	0.2842	0.3099	0.3356	0.3613	0.3870	0.4128	0.4385	0.4643	17.6
23.1-25.0	25.3- 27.4	0.0411	0.0719	0.1033	0.1351	0.1672	0.1993	0.2317	0.2641	0.2965	0.3291	0.3617	0.3943	0.4270	0.4597	0.4925	0.5253	0.5581	0.5909	18.6
25.1-27.0	27.6- 29.7	0.0501	0.0877	0.1260	0.1647	0.2038	0.2430	0.2824	0.3220	0.3616	0.4013	0.4411	0.4809	0.5208	0.5607	0.6007	0.6407	0.6807	0.7208	19.5
27.1-29.0	29.8- 32.0	0.0594	0.1039	0.1493	0.1953	0.2416	0.2882	0.3350	0.3819	0.4290	0.4761	0.5234	0.5707	0.6180	0.6654	0.7129	0.7604	0.8079	0.8555	20.2
29.1-31.0	32.1- 34.4	0.0690	0.1208	0.1736	0.2271	0.2810	0.3352	0.3897	0.4443	0.4991	0.5540	0.6090	0.6641	0.7193	0.7745	0.8298	0.8852	0.9406	0.9960	20.9
31.1-33.0	34.5- 36.7	0.0790	0.1383	0.1988	0.2601	0.3219	0.3841	0.4466	0.5093	0.5722	0.6352	0.6984	0.7616	0.8250	0.8884	0.9519	1.0154	1.0790	1.1427	21.5
33.1-35.0	36.8- 39.1	0.0894	0.1565	0.2250	0.2945	0.3645	0.4351	0.5059	0.5770	0.6484	0.7199	0.7915	0.8633	0.9352	1.0071	1.0792	1.1513	1.2235	1.2958	22.1
35.1-37.0	39.2- 41.5	0.1002	0.1755	0.2523	0.3302	0.4089	0.4881	0.5677	0.6476	0.7277	0.8081	0.8886	0.9693	1.0501	1.1310	1.2120	1.2931	1.3743	1.4555	22.6
37.1-39.0	41.6- 43.9	0.1115	0.1952	0.2806	0.3674	0.4550	0.5432	0.6319	0.7209	0.8103	0.8999	0.9896	1.0796	1.1697	1.2599	1.3503	1.4407	1.5313	1.6219	23.0
39.1-41.0	44.0- 46.4	0.1232	0.2157	0.3101	0.4059	0.5028	0.6004	0.6985	0.7971	0.8960	0.9952	1.0947	1.1943	1.2941	1.3941	1.4941	1.5943	1.6947	1.7951	23.4
41.1-43.0	46.5- 48.8	0.1354	0.2369	0.3406	0.4459	0.5524	0.6597	0.7677	0.8762	0.9851	1.0942	1.2037	1.3134	1.4233	1.5333	1.6436	1.7539	1.8644	1.9750	23.7
43.1-45.0	49.0- 51.3	0.1481	0.2590	0.3722	0.4873	0.6038	0.7212	0.8394	0.9581	1.0773	1.1969	1.3167	1.4369	1.5572	1.6778	1.7985	1.9194	2.0405	2.1616	24.0
45.1-47.0	51.5- 53.9	0.1612	0.2818	0.4050	0.5302	0.6570	0.7849	0.9136	1.0429	1.1728	1.3031	1.4338	1.5647	1.6959	1.8274	1.9590	2.0909	2.2229	2.3550	24.2
47.1-49.0	54.0- 56.4	0.1749	0.3055	0.4389	0.5746	0.7120	0.8506	0.9902	1.1306	1.2715	1.4129	1.5548	1.6969	1.8394	1.9821	2.1251	2.2683	2.4116	2.5551	24.4
49.1-51.0	56.6- 59.0	0.1891	0.3300	0.4739	0.6204	0.7687	0.9185	1.0694	1.2211	1.3734	1.5264	1.6797	1.8335	1.9876	2.1420	2.2967	2.4515	2.6066	2.7619	24.6
51.1-53.0	59.1- 61.6	0.2039	0.3554	0.5101	0.6676	0.8273	0.9885	1.1510	1.3144	1.4786	1.6434	1.8087	1.9744	2.1405	2.3070	2.4737	2.6407	2.8079	2.9753	24.8
53.1-55.0	61.7- 64.2	0.2192	0.3817	0.5474	0.7163	0.8876	1.0607	1.2351	1.4106	1.5869	1.7639	1.9415	2.1196	2.2981	2.4770	2.6562	2.8357	3.0155	3.1954	25.0
55.1-57.0	64.4- 66.9	0.2351	0.4088	0.5860	0.7665	0.9497	1.1349	1.3216	1.5095	1.6984	1.8880	2.0783	2.2691	2.4604	2.6521	2.8442	3.0365	3.2292	3.4221	25.1
57.1-59.0	67.0- 69.5	0.2516	0.4368	0.6257	0.8182	1.0137	1.2113	1.4107	1.6113	1.8130	2.0156	2.2189	2.4229	2.6273	2.8322	3.0375	3.2431	3.4491	3.6553	25.2
59.1-61.0	69.7- 72.2	0.2687	0.4658	0.6666	0.8714	1.0794	1.2898	1.5021	1.7159	1.9308	2.1468	2.3635	2.5808	2.7988	3.0173	3.2362	3.4555	3.6751	3.8951	25.3
61.1-63.0	72.4- 75.0	0.2864	0.4957	0.7088	0.9261	1.1470	1.3705	1.5961	1.8233	2.0518	2.2814	2.5118	2.7431	2.9749	3.2073	3.4402	3.6736	3.9073	4.1413	25.4
63.1-65.0	75.1- 77.7	0.3048	0.5265	0.7521	0.9823	1.2163	1.4532	1.6924	1.9334	2.1759	2.4195	2.6641	2.9095	3.1556	3.4023	3.6496	3.8973	4.1455	4.3940	25.5
65.1-67.0	77.9- 80.5	0.3239	0.5584	0.7967	1.0401	1.2875	1.5381	1.7913	2.0464	2.3031	2.5610	2.8201	3.0801	3.3408	3.6022	3.8642	4.1267	4.3897	4.6531	25.6
67.1-69.0	80.6- 83.3	0.3436	0.5912	0.8426	1.0993	1.3605	1.6251	1.8925	2.1621	2.4334	2.7061	2.9799	3.2548	3.5305	3.8070	4.0841	4.3618	4.6399	4.9186	25.6
69.1-71.0	83.4- 86.1	0.3641	0.6250	0.8898	1.1601	1.4353	1.7143	1.9962	2.2806	2.5668	2.8545	3.1436	3.4337	3.7248	4.0166	4.3092	4.6024	4.8961	5.1904	25.7
71.1-73.0	86.2- 88.9	0.3852	0.6599	0.9382	1.2225	1.5120	1.8056	2.1024	2.4018	2.7032	3.0064	3.3109	3.6167	3.9235	4.2311	4.5395	4.8486	5.1582	5.4685	25.7
73.1-75.0	89.1- 91.8	0.4072	0.6958	0.9880	1.2864	1.5905	1.8990	2.2110	2.5258	2.8428	3.1617	3.4821	3.8038	4.1266	4.4504	4.7750	5.1003	5.4263	5.7528	25.8
75.1-77.0	92.0- 94.7	0.4299	0.7329	1.0391	1.3520	1.6708	1.9945	2.3220	2.6525	2.9854	3.3204	3.6570	3.9950	4.3342	4.6744	5.0156	5.3575	5.7002	6.0435	25.8
77.1-79.0	94.9- 97.6	0.4535	0.7710	1.0915	1.4191	1.7531	2.0922	2.4355	2.7820	3.1311	3.4825	3.8356	4.1902	4.5462	4.9033	5.2613	5.6202	5.9799	6.3403	25.8
79.1-81.0	97.8-100.6	0.4778	0.8103	1.1453	1.4878	1.8372	2.1921	2.5514	2.9142	3.2799	3.6479	4.0179	4.3896	4.7626	5.1368	5.5121	5.8884	6.2655	6.6433	25.9

7.0 MERCHANTABLE LENGTH TABLES FOR NATURAL REGIONS 7, 8, 10

Table 22. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	6.2- 8.1	1.16	1.97	2.78	3.60	4.42	5.24	6.06	6.89	7.71	8.53	9.35	10.18	11.00	11.82	12.64	13.47	14.29	15.11	5.5
7.1- 9.0	8.2- 10.1	1.87	3.11	4.35	5.59	6.84	8.08	9.33	10.58	11.83	13.08	14.33	15.58	16.82	18.07	19.32	20.57	21.82	23.07	7.3
9.1-11.0	10.2- 12.2	2.20	3.64	5.08	6.52	7.97	9.42	10.87	12.32	13.77	15.22	16.67	18.12	19.57	21.02	22.47	23.92	25.38	26.83	9.1
11.1-13.0	12.3- 14.2	2.39	3.95	5.51	7.08	8.65	10.22	11.79	13.36	14.94	16.51	18.08	19.66	21.23	22.81	24.38	25.95	27.53	29.10	10.8
13.1-15.0	14.3- 16.3	2.51	4.15	5.79	7.44	9.10	10.75	12.41	14.06	15.72	17.38	19.03	20.69	22.35	24.00	25.66	27.32	28.98	30.63	12.4
15.1-17.0	16.4- 18.5	2.59	4.29	5.99	7.70	9.42	11.13	12.84	14.56	16.28	17.99	19.71	21.43	23.14	24.86	26.58	28.29	30.01	31.73	13.8
17.1-19.0	18.6- 20.6	2.65	4.38	6.13	7.89	9.65	11.41	13.17	14.93	16.69	18.45	20.21	21.97	23.74	25.50	27.26	29.02	30.78	32.54	15.1
19.1-21.0	20.7- 22.8	2.68	4.46	6.24	8.03	9.83	11.62	13.42	15.21	17.01	18.80	20.60	22.40	24.19	25.99	27.78	29.58	31.38	33.17	16.3
21.1-23.0	22.9- 25.0	2.71	4.51	6.32	8.14	9.96	11.79	13.61	15.43	17.26	19.08	20.90	22.73	24.55	26.38	28.20	30.02	31.85	33.67	17.4
23.1-25.0	25.1- 27.3	2.73	4.55	6.39	8.23	10.07	11.92	13.77	15.61	17.46	19.30	21.15	23.00	24.84	26.69	28.53	30.38	32.23	34.07	18.4
25.1-27.0	27.4- 29.5	2.74	4.58	6.44	8.30	10.16	12.03	13.89	15.76	17.62	19.48	21.35	23.21	25.08	26.94	28.81	30.67	32.54	34.40	19.2
27.1-29.0	29.7- 31.8	2.74	4.60	6.47	8.35	10.23	12.11	13.99	15.87	17.75	19.63	21.52	23.39	25.27	27.15	29.03	30.91	32.79	34.67	20.0
29.1-31.0	32.0- 34.2	2.75	4.62	6.50	8.40	10.29	12.18	14.08	15.97	17.87	19.76	21.65	23.55	25.44	27.33	29.22	31.12	33.01	34.90	20.7
31.1-33.0	34.3- 36.5	2.75	4.63	6.53	8.43	10.34	12.24	14.15	16.06	17.96	19.87	21.77	23.68	25.58	27.48	29.39	31.29	33.19	35.10	21.3
33.1-35.0	36.6- 38.9	2.74	4.63	6.54	8.46	10.38	12.29	14.21	16.13	18.04	19.96	21.87	23.79	25.70	27.61	29.53	31.44	33.35	35.26	21.8
35.1-37.0	39.0- 41.3	2.74	4.64	6.56	8.48	10.41	12.34	14.26	16.19	18.11	20.03	21.96	23.88	25.80	27.72	29.64	31.57	33.49	35.41	22.3
37.1-39.0	41.4- 43.8	2.73	4.64	6.57	8.50	10.44	12.37	14.31	16.24	18.17	20.10	22.03	23.96	25.89	27.82	29.75	31.68	33.61	35.53	22.7
39.1-41.0	43.9- 46.2	2.73	4.64	6.58	8.52	10.46	12.40	14.34	16.28	18.22	20.16	22.10	24.03	25.97	27.91	29.84	31.78	33.71	35.64	23.0
41.1-43.0	46.4- 48.7	2.72	4.64	6.58	8.53	10.48	12.43	14.37	16.32	18.27	20.21	22.15	24.10	26.04	27.98	29.92	31.86	33.80	35.74	23.4
43.1-45.0	48.9- 51.3	2.71	4.63	6.58	8.54	10.49	12.45	14.40	16.35	18.30	20.25	22.20	24.15	26.10	28.05	29.99	31.94	33.88	35.83	23.6
45.1-47.0	51.4- 53.8	2.70	4.63	6.58	8.54	10.51	12.47	14.43	16.38	18.34	20.29	22.25	24.20	26.15	28.10	30.05	32.00	33.95	35.90	23.9
47.1-49.0	53.9- 56.4	2.69	4.62	6.58	8.55	10.52	12.48	14.45	16.41	18.37	20.33	22.29	24.24	26.20	28.16	30.11	32.07	34.02	35.97	24.1
49.1-51.0	56.5- 59.0	2.68	4.61	6.58	8.55	10.52	12.49	14.46	16.43	18.39	20.36	22.32	24.28	26.24	28.20	30.16	32.12	34.08	36.03	24.3
51.1-53.0	59.1- 61.6	2.67	4.60	6.57	8.55	10.53	12.50	14.48	16.45	18.42	20.38	22.35	24.32	26.28	28.24	30.21	32.17	34.13	36.09	24.5
53.1-55.0	61.8- 64.3	2.66	4.60	6.57	8.55	10.53	12.51	14.49	16.46	18.44	20.41	22.38	24.35	26.31	28.28	30.25	32.21	34.18	36.14	24.6
55.1-57.0	64.4- 67.0	2.65	4.59	6.56	8.55	10.53	12.52	14.50	16.48	18.45	20.43	22.40	24.37	26.35	28.31	30.28	32.25	34.22	36.19	24.7
57.1-59.0	67.1- 69.7	2.64	4.58	6.56	8.55	10.53	12.52	14.51	16.49	18.47	20.45	22.42	24.40	26.37	28.35	30.32	32.29	34.26	36.23	24.9
59.1-61.0	69.9- 72.5	2.62	4.57	6.55	8.54	10.53	12.53	14.51	16.50	18.48	20.46	22.44	24.42	26.40	28.37	30.35	32.32	34.29	36.27	24.9
61.1-63.0	72.6- 75.3	2.61	4.55	6.54	8.54	10.53	12.53	14.52	16.51	18.49	20.48	22.46	24.44	26.42	28.40	30.37	32.35	34.33	36.30	25.0
63.1-65.0	75.4- 78.1	2.60	4.54	6.53	8.53	10.53	12.53	14.52	16.51	18.50	20.49	22.48	24.46	26.44	28.42	30.40	32.38	34.35	36.33	25.1
65.1-67.0	78.2- 80.9	2.59	4.53	6.52	8.52	10.53	12.53	14.53	16.52	18.51	20.50	22.49	24.47	26.46	28.44	30.42	32.40	34.38	36.36	25.2
67.1-69.0	81.0- 83.8	2.58	4.52	6.51	8.52	10.52	12.53	14.53	16.53	18.52	20.51	22.50	24.49	26.47	28.46	30.44	32.42	34.41	36.39	25.2
69.1-71.0	83.9- 86.7	2.56	4.51	6.50	8.51	10.52	12.53	14.53	16.53	18.53	20.52	22.51	24.50	26.49	28.48	30.46	32.45	34.43	36.41	25.3
71.1-73.0	86.8- 89.6	2.55	4.50	6.49	8.50	10.51	12.52	14.53	16.53	18.53	20.53	22.52	24.51	26.50	28.49	30.48	32.46	34.45	36.43	25.3
73.1-75.0	89.7- 92.5	2.54	4.48	6.48	8.49	10.51	12.52	14.53	16.53	18.53	20.53	22.53	24.52	26.51	28.50	30.49	32.48	34.47	36.45	25.4
75.1-77.0	92.7- 95.5	2.53	4.47	6.47	8.48	10.50	12.52	14.53	16.53	18.54	20.54	22.54	24.53	26.53	28.52	30.51	32.50	34.49	36.47	25.4
77.1-79.0	95.6- 98.5	2.52	4.46	6.46	8.48	10.49	12.51	14.52	16.53	18.54	20.54	22.54	24.54	26.53	28.53	30.52	32.51	34.50	36.49	25.4
79.1-81.0	98.7-101.5	2.50	4.45	6.45	8.47	10.49	12.51	14.52	16.53	18.54	20.55	22.55	24.55	26.54	28.54	30.53	32.52	34.52	36.51	25.5

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 23. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.2- 10.1	0.80	1.39	1.99	2.60	3.21	3.82	4.43	5.04	5.65	6.26	6.87	7.48	8.09	8.70	9.32	9.93	10.54	11.15	7.3
9.1-11.0	10.2- 12.2	1.48	2.52	3.57	4.63	5.70	6.76	7.83	8.90	9.96	11.03	12.10	13.17	14.24	15.31	16.38	17.44	18.51	19.58	9.1
11.1-13.0	12.3- 14.2	1.82	3.08	4.35	5.63	6.91	8.19	9.48	10.77	12.05	13.34	14.63	15.92	17.20	18.49	19.78	21.07	22.36	23.65	10.8
13.1-15.0	14.3- 16.3	2.03	3.42	4.83	6.25	7.67	9.09	10.51	11.94	13.36	14.79	16.22	17.64	19.07	20.50	21.93	23.35	24.78	26.21	12.4
15.1-17.0	16.4- 18.5	2.17	3.65	5.16	6.67	8.19	9.71	11.23	12.75	14.28	15.80	17.32	18.85	20.37	21.90	23.42	24.95	26.47	28.00	13.8
17.1-19.0	18.6- 20.6	2.26	3.82	5.40	6.98	8.57	10.16	11.76	13.35	14.95	16.54	18.14	19.74	21.33	22.93	24.53	26.13	27.73	29.32	15.1
19.1-21.0	20.7- 22.8	2.33	3.94	5.57	7.21	8.86	10.51	12.16	13.81	15.46	17.11	18.76	20.42	22.07	23.73	25.38	27.03	28.69	30.34	16.3
21.1-23.0	22.9- 25.0	2.38	4.03	5.71	7.39	9.08	10.78	12.47	14.17	15.86	17.56	19.26	20.96	22.65	24.35	26.05	27.75	29.45	31.15	17.4
23.1-25.0	25.1- 27.3	2.42	4.11	5.82	7.54	9.26	10.99	12.72	14.45	16.19	17.92	19.65	21.39	23.12	24.86	26.59	28.33	30.06	31.80	18.4
25.1-27.0	27.4- 29.5	2.45	4.16	5.90	7.65	9.41	11.17	12.93	14.69	16.45	18.22	19.98	21.74	23.51	25.27	27.04	28.80	30.57	32.33	19.2
27.1-29.0	29.7- 31.8	2.47	4.20	5.97	7.74	9.53	11.31	13.10	14.88	16.67	18.46	20.25	22.04	23.83	25.62	27.41	29.20	30.99	32.78	20.0
29.1-31.0	32.0- 34.2	2.48	4.24	6.02	7.82	9.62	11.43	13.24	15.05	16.86	18.67	20.48	22.29	24.10	25.91	27.72	29.53	31.34	33.15	20.7
31.1-33.0	34.3- 36.5	2.49	4.26	6.07	7.88	9.71	11.53	13.36	15.19	17.01	18.84	20.67	22.50	24.33	26.16	27.99	29.81	31.64	33.47	21.3
33.1-35.0	36.6- 38.9	2.50	4.28	6.10	7.94	9.77	11.62	13.46	15.30	17.15	18.99	20.84	22.68	24.53	26.37	28.21	30.06	31.90	33.75	21.8
35.1-37.0	39.0- 41.3	2.50	4.30	6.13	7.98	9.83	11.69	13.55	15.40	17.26	19.12	20.98	22.84	24.70	26.55	28.41	30.27	32.13	33.99	22.3
37.1-39.0	41.4- 43.8	2.50	4.31	6.16	8.02	9.88	11.75	13.62	15.49	17.36	19.23	21.10	22.97	24.85	26.72	28.59	30.46	32.33	34.20	22.7
39.1-41.0	43.9- 46.2	2.50	4.32	6.18	8.05	9.92	11.80	13.69	15.57	17.45	19.33	21.21	23.09	24.98	26.86	28.74	30.62	32.50	34.38	23.0
41.1-43.0	46.4- 48.7	2.50	4.32	6.19	8.07	9.96	11.85	13.74	15.63	17.53	19.42	21.31	23.20	25.09	26.98	28.87	30.76	32.65	34.55	23.4
43.1-45.0	48.9- 51.3	2.49	4.33	6.20	8.09	9.99	11.89	13.79	15.69	17.59	19.49	21.39	23.29	25.19	27.09	28.99	30.89	32.79	34.69	23.6
45.1-47.0	51.4- 53.8	2.49	4.33	6.21	8.11	10.02	11.92	13.83	15.74	17.65	19.56	21.47	23.38	25.28	27.19	29.10	31.01	32.91	34.82	23.9
47.1-49.0	53.9- 56.4	2.48	4.33	6.22	8.12	10.04	11.95	13.87	15.79	17.70	19.62	21.54	23.45	25.37	27.28	29.19	31.11	33.02	34.94	24.1
49.1-51.0	56.5- 59.0	2.48	4.32	6.22	8.14	10.06	11.98	13.90	15.83	17.75	19.67	21.60	23.52	25.44	27.36	29.28	31.20	33.12	35.04	24.3
51.1-53.0	59.1- 61.6	2.47	4.32	6.22	8.14	10.07	12.00	13.93	15.86	17.79	19.72	21.65	23.58	25.50	27.43	29.36	31.28	33.21	35.14	24.5
53.1-55.0	61.8- 64.3	2.46	4.32	6.22	8.15	10.08	12.02	13.96	15.89	17.83	19.76	21.70	23.63	25.56	27.50	29.43	31.36	33.29	35.22	24.6
55.1-57.0	64.4- 67.0	2.45	4.31	6.22	8.16	10.09	12.04	13.98	15.92	17.86	19.80	21.74	23.68	25.62	27.55	29.49	31.43	33.36	35.30	24.7
57.1-59.0	67.1- 69.7	2.44	4.30	6.22	8.16	10.10	12.05	14.00	15.94	17.89	19.83	21.78	23.72	25.67	27.61	29.55	31.49	33.43	35.37	24.9
59.1-61.0	69.9- 72.5	2.44	4.30	6.22	8.16	10.11	12.06	14.01	15.96	17.92	19.87	21.81	23.76	25.71	27.66	29.60	31.55	33.49	35.44	24.9
61.1-63.0	72.6- 75.3	2.43	4.29	6.21	8.16	10.11	12.07	14.03	15.98	17.94	19.89	21.85	23.80	25.75	27.70	29.65	31.60	33.55	35.49	25.0
63.1-65.0	75.4- 78.1	2.42	4.28	6.21	8.16	10.12	12.08	14.04	16.00	17.96	19.92	21.87	23.83	25.79	27.74	29.69	31.65	33.60	35.55	25.1
65.1-67.0	78.2- 80.9	2.41	4.27	6.20	8.16	10.12	12.08	14.05	16.01	17.98	19.94	21.90	23.86	25.82	27.78	29.73	31.69	33.64	35.60	25.2
67.1-69.0	81.0- 83.8	2.40	4.26	6.20	8.15	10.12	12.09	14.06	16.03	17.99	19.96	21.92	23.89	25.85	27.81	29.77	31.73	33.69	35.65	25.2
69.1-71.0	83.9- 86.7	2.39	4.25	6.19	8.15	10.12	12.09	14.07	16.04	18.01	19.98	21.95	23.91	25.88	27.84	29.80	31.77	33.73	35.69	25.3
71.1-73.0	86.8- 89.6	2.38	4.24	6.18	8.15	10.12	12.10	14.07	16.05	18.02	19.99	21.96	23.93	25.90	27.87	29.84	31.80	33.76	35.73	25.3
73.1-75.0	89.7- 92.5	2.37	4.23	6.17	8.14	10.12	12.10	14.08	16.06	18.03	20.01	21.98	23.95	25.93	27.89	29.86	31.83	33.80	35.76	25.4
75.1-77.0	92.7- 95.5	2.36	4.22	6.17	8.13	10.11	12.10	14.08	16.06	18.04	20.02	22.00	23.97	25.95	27.92	29.89	31.86	33.83	35.80	25.4
77.1-79.0	95.6- 98.5	2.35	4.21	6.16	8.13	10.11	12.10	14.08	16.07	18.05	20.03	22.01	23.99	25.97	27.94	29.91	31.89	33.86	35.83	25.4
79.1-81.0	98.7-101.5	2.34	4.20	6.15	8.12	10.11	12.10	14.08	16.07	18.06	20.04	22.02	24.00	25.98	27.96	29.94	31.91	33.89	35.86	25.5

Table 24. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.2	0.82	1.45	2.09	2.73	3.39	4.04	4.69	5.35	6.01	6.67	7.33	7.99	8.65	9.31	9.97	10.63	11.29	11.95	10.8
13.1-15.0	14.3- 16.3	1.25	2.19	3.15	4.12	5.10	6.08	7.06	8.05	9.04	10.02	11.01	12.00	12.99	13.98	14.97	15.96	16.95	17.94	12.4
15.1-17.0	16.4- 18.5	1.52	2.64	3.78	4.94	6.11	7.28	8.45	9.62	10.79	11.97	13.15	14.32	15.50	16.68	17.86	19.03	20.21	21.39	13.8
17.1-19.0	18.6- 20.6	1.70	2.94	4.21	5.50	6.79	8.09	9.39	10.69	12.00	13.30	14.61	15.92	17.22	18.53	19.84	21.14	22.45	23.76	15.1
19.1-21.0	20.7- 22.8	1.82	3.16	4.53	5.91	7.30	8.69	10.09	11.49	12.89	14.29	15.69	17.09	18.50	19.90	21.30	22.71	24.11	25.52	16.3
21.1-23.0	22.9- 25.0	1.92	3.32	4.76	6.22	7.68	9.15	10.62	12.10	13.57	15.05	16.52	18.00	19.48	20.96	22.44	23.92	25.40	26.88	17.4
23.1-25.0	25.1- 27.3	1.99	3.45	4.95	6.46	7.99	9.51	11.05	12.58	14.11	15.65	17.19	18.73	20.27	21.80	23.34	24.88	26.42	27.96	18.4
25.1-27.0	27.4- 29.5	2.05	3.55	5.10	6.66	8.23	9.81	11.39	12.97	14.56	16.14	17.73	19.32	20.91	22.50	24.09	25.67	27.26	28.85	19.2
27.1-29.0	29.7- 31.8	2.09	3.63	5.22	6.82	8.43	10.05	11.67	13.30	14.92	16.55	18.18	19.81	21.44	23.07	24.70	26.33	27.96	29.59	20.0
29.1-31.0	32.0- 34.2	2.12	3.70	5.31	6.95	8.60	10.25	11.91	13.57	15.23	16.89	18.56	20.22	21.89	23.55	25.22	26.89	28.55	30.22	20.7
31.1-33.0	34.3- 36.5	2.15	3.75	5.40	7.06	8.74	10.42	12.11	13.80	15.49	17.19	18.88	20.58	22.27	23.97	25.66	27.36	29.06	30.75	21.3
33.1-35.0	36.6- 38.9	2.17	3.79	5.46	7.16	8.86	10.57	12.28	14.00	15.72	17.44	19.16	20.88	22.60	24.32	26.04	27.77	29.49	31.21	21.8
35.1-37.0	39.0- 41.3	2.18	3.83	5.52	7.23	8.96	10.69	12.43	14.17	15.91	17.65	19.40	21.14	22.89	24.63	26.38	28.12	29.87	31.61	22.3
37.1-39.0	41.4- 43.8	2.20	3.86	5.57	7.30	9.05	10.80	12.56	14.32	16.08	17.84	19.61	21.37	23.14	24.90	26.67	28.43	30.20	31.96	22.7
39.1-41.0	43.9- 46.2	2.21	3.88	5.61	7.36	9.12	10.89	12.67	14.45	16.23	18.01	19.79	21.57	23.35	25.14	26.92	28.71	30.49	32.27	23.0
41.1-43.0	46.4- 48.7	2.21	3.90	5.64	7.41	9.19	10.97	12.77	14.56	16.36	18.15	19.95	21.75	23.55	25.35	27.15	28.95	30.75	32.55	23.4
43.1-45.0	48.9- 51.3	2.22	3.91	5.67	7.45	9.24	11.05	12.85	14.66	16.47	18.28	20.10	21.91	23.72	25.54	27.35	29.16	30.98	32.79	23.6
45.1-47.0	51.4- 53.8	2.22	3.92	5.69	7.49	9.29	11.11	12.93	14.75	16.57	18.40	20.22	22.05	23.88	25.70	27.53	29.36	31.18	33.01	23.9
47.1-49.0	53.9- 56.4	2.22	3.93	5.71	7.52	9.34	11.16	13.00	14.83	16.66	18.50	20.34	22.18	24.02	25.85	27.69	29.53	31.37	33.21	24.1
49.1-51.0	56.5- 59.0	2.22	3.94	5.73	7.54	9.37	11.21	13.05	14.90	16.75	18.59	20.44	22.29	24.14	25.99	27.84	29.69	31.54	33.39	24.3
51.1-53.0	59.1- 61.6	2.22	3.94	5.74	7.57	9.41	11.26	13.11	14.96	16.82	18.68	20.54	22.39	24.25	26.11	27.97	29.83	31.69	33.55	24.5
53.1-55.0	61.8- 64.3	2.21	3.95	5.75	7.59	9.44	11.29	13.15	15.02	16.89	18.75	20.62	22.49	24.36	26.22	28.09	29.96	31.83	33.70	24.6
55.1-57.0	64.4- 67.0	2.21	3.95	5.76	7.60	9.46	11.33	13.20	15.07	16.94	18.82	20.70	22.57	24.45	26.32	28.20	30.08	31.95	33.83	24.7
57.1-59.0	67.1- 69.7	2.21	3.95	5.77	7.62	9.48	11.36	13.23	15.12	17.00	18.88	20.76	22.65	24.53	26.42	28.30	30.19	32.07	33.95	24.9
59.1-61.0	69.9- 72.5	2.20	3.95	5.77	7.63	9.50	11.38	13.27	15.16	17.05	18.94	20.83	22.72	24.61	26.50	28.39	30.28	32.17	34.07	24.9
61.1-63.0	72.6- 75.3	2.20	3.95	5.78	7.64	9.52	11.41	13.30	15.19	17.09	18.99	20.89	22.78	24.68	26.58	28.48	30.37	32.27	34.17	25.0
63.1-65.0	75.4- 78.1	2.19	3.94	5.78	7.65	9.53	11.43	13.33	15.23	17.13	19.03	20.94	22.84	24.75	26.65	28.55	30.46	32.36	34.26	25.1
65.1-67.0	78.2- 80.9	2.19	3.94	5.78	7.65	9.54	11.44	13.35	15.26	17.17	19.08	20.99	22.90	24.81	26.72	28.62	30.53	32.44	34.35	25.2
67.1-69.0	81.0- 83.8	2.18	3.94	5.78	7.66	9.55	11.46	13.37	15.28	17.20	19.11	21.03	22.94	24.86	26.78	28.69	30.60	32.52	34.43	25.2
69.1-71.0	83.9- 86.7	2.17	3.93	5.78	7.66	9.56	11.47	13.39	15.31	17.23	19.15	21.07	22.99	24.91	26.83	28.75	30.67	32.59	34.51	25.3
71.1-73.0	86.8- 89.6	2.17	3.93	5.77	7.66	9.57	11.48	13.41	15.33	17.26	19.18	21.11	23.03	24.96	26.88	28.81	30.73	32.65	34.58	25.3
73.1-75.0	89.7- 92.5	2.16	3.92	5.77	7.66	9.57	11.49	13.42	15.35	17.28	19.21	21.14	23.07	25.00	26.93	28.86	30.79	32.72	34.64	25.4
75.1-77.0	92.7- 95.5	2.15	3.91	5.77	7.66	9.58	11.50	13.43	15.37	17.30	19.24	21.17	23.11	25.04	26.97	28.91	30.84	32.77	34.70	25.4
77.1-79.0	95.6- 98.5	2.15	3.91	5.76	7.66	9.58	11.51	13.45	15.38	17.32	19.26	21.20	23.14	25.08	27.01	28.95	30.89	32.82	34.76	25.4
79.1-81.0	98.7-101.5	2.14	3.90	5.76	7.66	9.58	11.52	13.46	15.40	17.34	19.28	21.23	23.17	25.11	27.05	28.99	30.93	32.87	34.81	25.5

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 25. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.2	0.41	0.70	0.96	1.20	1.44	1.66	1.88	2.10	2.31	2.51	2.72	2.92	3.13	3.33	3.53	3.72	3.92	4.12	10.8
13.1-15.0	14.3- 16.3	0.96	1.70	2.47	3.24	4.01	4.80	5.58	6.36	7.15	7.94	8.73	9.52	10.31	11.10	11.89	12.68	13.47	14.26	12.4
15.1-17.0	16.4- 18.5	1.29	2.26	3.27	4.28	5.30	6.33	7.36	8.39	9.43	10.46	11.50	12.53	13.57	14.61	15.64	16.68	17.72	18.76	13.8
17.1-19.0	18.6- 20.6	1.50	2.63	3.79	4.96	6.14	7.32	8.51	9.70	10.89	12.09	13.28	14.48	15.67	16.87	18.06	19.26	20.45	21.65	15.1
19.1-21.0	20.7- 22.8	1.65	2.89	4.16	5.44	6.74	8.04	9.34	10.64	11.95	13.25	14.56	15.87	17.18	18.49	19.80	21.11	22.42	23.73	16.3
21.1-23.0	22.9- 25.0	1.77	3.08	4.44	5.81	7.19	8.57	9.96	11.36	12.75	14.14	15.54	16.94	18.33	19.73	21.13	22.53	23.92	25.32	17.4
23.1-25.0	25.1- 27.3	1.85	3.23	4.65	6.09	7.54	9.00	10.46	11.92	13.38	14.84	16.31	17.78	19.24	20.71	22.18	23.65	25.12	26.58	18.4
25.1-27.0	27.4- 29.5	1.92	3.35	4.83	6.32	7.83	9.34	10.85	12.37	13.89	15.41	16.94	18.46	19.98	21.51	23.03	24.56	26.08	27.61	19.2
27.1-29.0	29.7- 31.8	1.97	3.44	4.97	6.51	8.06	9.62	11.18	12.75	14.31	15.88	17.45	19.02	20.60	22.17	23.74	25.31	26.89	28.46	20.0
29.1-31.0	32.0- 34.2	2.01	3.52	5.08	6.66	8.25	9.85	11.45	13.06	14.67	16.28	17.89	19.50	21.11	22.72	24.34	25.95	27.56	29.18	20.7
31.1-33.0	34.3- 36.5	2.04	3.58	5.17	6.79	8.41	10.05	11.68	13.32	14.97	16.61	18.26	19.90	21.55	23.20	24.84	26.49	28.14	29.79	21.3
33.1-35.0	36.6- 38.9	2.07	3.63	5.25	6.90	8.55	10.21	11.88	13.55	15.22	16.90	18.57	20.25	21.92	23.60	25.28	26.96	28.64	30.31	21.8
35.1-37.0	39.0- 41.3	2.09	3.68	5.32	6.99	8.67	10.36	12.05	13.75	15.44	17.15	18.85	20.55	22.25	23.96	25.66	27.36	29.07	30.77	22.3
37.1-39.0	41.4- 43.8	2.10	3.71	5.38	7.07	8.77	10.48	12.20	13.92	15.64	17.36	19.09	20.81	22.54	24.26	25.99	27.72	29.45	31.17	22.7
39.1-41.0	43.9- 46.2	2.12	3.74	5.42	7.13	8.86	10.59	12.33	14.07	15.81	17.55	19.30	21.04	22.79	24.54	26.28	28.03	29.78	31.53	23.0
41.1-43.0	46.4- 48.7	2.12	3.76	5.46	7.19	8.93	10.68	12.44	14.20	15.96	17.72	19.48	21.25	23.01	24.78	26.54	28.31	30.08	31.84	23.4
43.1-45.0	48.9- 51.3	2.13	3.78	5.50	7.24	9.00	10.77	12.54	14.31	16.09	17.87	19.65	21.43	23.21	24.99	26.77	28.56	30.34	32.12	23.6
45.1-47.0	51.4- 53.8	2.14	3.80	5.53	7.28	9.06	10.84	12.62	14.41	16.21	18.00	19.80	21.59	23.39	25.18	26.98	28.78	30.58	32.37	23.9
47.1-49.0	53.9- 56.4	2.14	3.81	5.55	7.32	9.11	10.90	12.70	14.51	16.31	18.12	19.93	21.74	23.55	25.36	27.17	28.98	30.79	32.60	24.1
49.1-51.0	56.5- 59.0	2.14	3.82	5.57	7.35	9.15	10.96	12.77	14.59	16.41	18.23	20.05	21.87	23.69	25.51	27.34	29.16	30.98	32.81	24.3
51.1-53.0	59.1- 61.6	2.14	3.83	5.59	7.38	9.19	11.01	12.83	14.66	16.49	18.32	20.15	21.99	23.82	25.65	27.49	29.32	31.16	32.99	24.5
53.1-55.0	61.8- 64.3	2.14	3.83	5.60	7.41	9.23	11.05	12.89	14.73	16.57	18.41	20.25	22.09	23.94	25.78	27.63	29.47	31.32	33.16	24.6
55.1-57.0	64.4- 67.0	2.14	3.84	5.62	7.43	9.26	11.09	12.94	14.79	16.64	18.49	20.34	22.19	24.05	25.90	27.75	29.61	31.46	33.31	24.7
57.1-59.0	67.1- 69.7	2.14	3.84	5.62	7.44	9.28	11.13	12.98	14.84	16.70	18.56	20.42	22.28	24.14	26.01	27.87	29.73	31.59	33.46	24.9
59.1-61.0	69.9- 72.5	2.13	3.84	5.63	7.46	9.31	11.16	13.02	14.89	16.75	18.62	20.49	22.36	24.23	26.10	27.97	29.84	31.71	33.58	24.9
61.1-63.0	72.6- 75.3	2.13	3.84	5.64	7.47	9.33	11.19	13.06	14.93	16.81	18.68	20.56	22.44	24.31	26.19	28.07	29.95	31.83	33.70	25.0
63.1-65.0	75.4- 78.1	2.13	3.84	5.64	7.48	9.34	11.21	13.09	14.97	16.85	18.74	20.62	22.50	24.39	26.27	28.16	30.04	31.93	33.81	25.1
65.1-67.0	78.2- 80.9	2.12	3.84	5.65	7.49	9.36	11.24	13.12	15.01	16.89	18.78	20.68	22.57	24.46	26.35	28.24	30.13	32.02	33.91	25.2
67.1-69.0	81.0- 83.8	2.12	3.84	5.65	7.50	9.37	11.26	13.14	15.04	16.93	18.83	20.73	22.62	24.52	26.42	28.32	30.21	32.11	34.01	25.2
69.1-71.0	83.9- 86.7	2.11	3.83	5.65	7.50	9.38	11.27	13.17	15.07	16.97	18.87	20.77	22.68	24.58	26.48	28.39	30.29	32.19	34.10	25.3
71.1-73.0	86.8- 89.6	2.11	3.83	5.65	7.51	9.39	11.29	13.19	15.09	17.00	18.91	20.82	22.73	24.63	26.54	28.45	30.36	32.27	34.18	25.3
73.1-75.0	89.7- 92.5	2.10	3.82	5.65	7.51	9.40	11.30	13.21	15.12	17.03	18.94	20.86	22.77	24.68	26.60	28.51	30.43	32.34	34.25	25.4
75.1-77.0	92.7- 95.5	2.09	3.82	5.64	7.51	9.41	11.31	13.22	15.14	17.06	18.97	20.89	22.81	24.73	26.65	28.57	30.49	32.40	34.32	25.4
77.1-79.0	95.6- 98.5	2.09	3.81	5.64	7.51	9.41	11.32	13.24	15.16	17.08	19.00	20.93	22.85	24.77	26.70	28.62	30.54	32.47	34.39	25.4
79.1-81.0	98.7-101.5	2.08	3.81	5.64	7.51	9.42	11.33	13.25	15.18	17.10	19.03	20.96	22.89	24.81	26.74	28.67	30.60	32.52	34.45	25.5

Table 26. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.3- 16.3	0.33	0.52	0.67	0.80	0.91	1.02	1.12	1.21	1.31	1.40	1.50	1.59	1.69	1.78	1.88	1.97	2.07	2.17	12.4
15.1-17.0	16.4- 18.5	0.80	1.42	2.06	2.71	3.36	4.02	4.68	5.35	6.01	6.68	7.35	8.02	8.68	9.35	10.02	10.69	11.36	12.03	13.8
17.1-19.0	18.6- 20.6	1.10	1.96	2.85	3.76	4.67	5.59	6.52	7.44	8.37	9.30	10.23	11.16	12.10	13.03	13.96	14.90	15.83	16.76	15.1
19.1-21.0	20.7- 22.8	1.31	2.33	3.38	4.45	5.53	6.61	7.70	8.79	9.89	10.99	12.08	13.18	14.28	15.38	16.48	17.58	18.68	19.78	16.3
21.1-23.0	22.9- 25.0	1.46	2.59	3.76	4.95	6.14	7.35	8.56	9.77	10.99	12.20	13.42	14.64	15.86	17.08	18.30	19.52	20.74	21.96	17.4
23.1-25.0	25.1- 27.3	1.58	2.79	4.05	5.33	6.62	7.91	9.22	10.52	11.83	13.14	14.45	15.76	17.07	18.38	19.70	21.01	22.33	23.64	18.4
25.1-27.0	27.4- 29.5	1.67	2.95	4.28	5.63	6.99	8.36	9.74	11.12	12.50	13.88	15.27	16.65	18.04	19.43	20.81	22.20	23.59	24.98	19.2
27.1-29.0	29.7- 31.8	1.73	3.07	4.46	5.87	7.29	8.72	10.16	11.60	13.04	14.49	15.94	17.38	18.83	20.28	21.73	23.18	24.63	26.08	20.0
29.1-31.0	32.0- 34.2	1.79	3.17	4.61	6.07	7.54	9.03	10.51	12.00	13.50	14.99	16.49	17.99	19.49	20.99	22.49	23.99	25.50	27.00	20.7
31.1-33.0	34.3- 36.5	1.83	3.26	4.73	6.24	7.75	9.28	10.81	12.34	13.88	15.42	16.96	18.51	20.05	21.59	23.14	24.69	26.23	27.78	21.3
33.1-35.0	36.6- 38.9	1.87	3.32	4.84	6.38	7.93	9.49	11.06	12.63	14.21	15.79	17.37	18.95	20.53	22.11	23.70	25.28	26.86	28.45	21.8
35.1-37.0	39.0- 41.3	1.90	3.38	4.92	6.49	8.08	9.68	11.28	12.88	14.49	16.10	17.72	19.33	20.95	22.56	24.18	25.79	27.41	29.03	22.3
37.1-39.0	41.4- 43.8	1.92	3.43	5.00	6.60	8.21	9.84	11.47	13.10	14.74	16.38	18.02	19.66	21.31	22.95	24.60	26.24	27.89	29.54	22.7
39.1-41.0	43.9- 46.2	1.94	3.47	5.06	6.68	8.32	9.97	11.63	13.29	14.96	16.62	18.29	19.96	21.63	23.30	24.97	26.64	28.31	29.99	23.0
41.1-43.0	46.4- 48.7	1.96	3.50	5.12	6.76	8.42	10.10	11.78	13.46	15.15	16.83	18.53	20.22	21.91	23.60	25.30	26.99	28.69	30.38	23.4
43.1-45.0	48.9- 51.3	1.97	3.53	5.16	6.83	8.51	10.20	11.90	13.61	15.31	17.02	18.74	20.45	22.16	23.88	25.59	27.31	29.02	30.74	23.6
45.1-47.0	51.4- 53.8	1.98	3.56	5.20	6.89	8.59	10.30	12.02	13.74	15.46	17.19	18.92	20.65	22.39	24.12	25.85	27.59	29.32	31.06	23.9
47.1-49.0	53.9- 56.4	1.99	3.58	5.24	6.94	8.65	10.38	12.12	13.86	15.60	17.34	19.09	20.84	22.59	24.34	26.09	27.84	29.59	31.35	24.1
49.1-51.0	56.5- 59.0	2.00	3.59	5.27	6.98	8.71	10.45	12.21	13.96	15.72	17.48	19.24	21.01	22.77	24.54	26.30	28.07	29.84	31.61	24.3
51.1-53.0	59.1- 61.6	2.00	3.61	5.29	7.02	8.76	10.52	12.29	14.06	15.83	17.60	19.38	21.16	22.94	24.72	26.50	28.28	30.06	31.84	24.5
53.1-55.0	61.8- 64.3	2.00	3.62	5.32	7.05	8.81	10.58	12.36	14.14	15.93	17.71	19.50	21.30	23.09	24.88	26.67	28.47	30.26	32.06	24.6
55.1-57.0	64.4- 67.0	2.01	3.63	5.33	7.08	8.85	10.63	12.42	14.22	16.02	17.82	19.62	21.42	23.22	25.03	26.83	28.64	30.45	32.25	24.7
57.1-59.0	67.1- 69.7	2.01	3.64	5.35	7.11	8.89	10.68	12.48	14.29	16.10	17.91	19.72	21.53	23.35	25.16	26.98	28.80	30.61	32.43	24.9
59.1-61.0	69.9- 72.5	2.01	3.64	5.36	7.13	8.92	10.72	12.53	14.35	16.17	17.99	19.81	21.64	23.46	25.29	27.12	28.94	30.77	32.60	24.9
61.1-63.0	72.6- 75.3	2.01	3.64	5.38	7.15	8.95	10.76	12.58	14.41	16.24	18.07	19.90	21.73	23.57	25.40	27.24	29.08	30.91	32.75	25.0
63.1-65.0	75.4- 78.1	2.00	3.65	5.39	7.17	8.98	10.80	12.63	14.46	16.30	18.14	19.98	21.82	23.67	25.51	27.35	29.20	31.04	32.89	25.1
65.1-67.0	78.2- 80.9	2.00	3.65	5.39	7.18	9.00	10.83	12.66	14.51	16.35	18.20	20.05	21.90	23.75	25.61	27.46	29.31	31.17	33.02	25.2
67.1-69.0	81.0- 83.8	2.00	3.65	5.40	7.20	9.02	10.85	12.70	14.55	16.40	18.26	20.12	21.98	23.84	25.70	27.56	29.42	31.28	33.14	25.2
69.1-71.0	83.9- 86.7	2.00	3.65	5.40	7.21	9.04	10.88	12.73	14.59	16.45	18.31	20.18	22.05	23.91	25.78	27.65	29.51	31.38	33.25	25.3
71.1-73.0	86.8- 89.6	1.99	3.65	5.41	7.22	9.05	10.90	12.76	14.63	16.49	18.36	20.24	22.11	23.98	25.86	27.73	29.61	31.48	33.35	25.3
73.1-75.0	89.7- 92.5	1.99	3.65	5.41	7.22	9.07	10.92	12.79	14.66	16.53	18.41	20.29	22.17	24.05	25.93	27.81	29.69	31.57	33.45	25.4
75.1-77.0	92.7- 95.5	1.99	3.64	5.41	7.23	9.08	10.94	12.81	14.69	16.57	18.45	20.34	22.22	24.11	25.99	27.88	29.77	31.66	33.54	25.4
77.1-79.0	95.6- 98.5	1.98	3.64	5.41	7.24	9.09	10.96	12.83	14.72	16.60	18.49	20.38	22.27	24.16	26.06	27.95	29.84	31.73	33.63	25.4
79.1-81.0	98.7-101.5	1.98	3.64	5.41	7.24	9.10	10.97	12.85	14.74	16.63	18.53	20.42	22.32	24.22	26.11	28.01	29.91	31.81	33.71	25.5

Table 27. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.4- 18.5	0.27	0.41	0.50	0.57	0.63	0.68	0.73	0.79	0.85	0.91	0.97	1.03	1.10	1.16	1.23	1.29	1.36	1.42	13.8
17.1-19.0	18.6- 20.6	0.68	1.20	1.73	2.27	2.81	3.36	3.90	4.45	5.00	5.55	6.10	6.65	7.20	7.76	8.31	8.86	9.41	9.97	15.1
19.1-21.0	20.7- 22.8	0.96	1.71	2.50	3.31	4.12	4.94	5.77	6.60	7.43	8.27	9.10	9.94	10.77	11.61	12.45	13.29	14.13	14.97	16.3
21.1-23.0	22.9- 25.0	1.16	2.07	3.03	4.00	4.99	5.98	6.98	7.99	8.99	10.00	11.01	12.02	13.03	14.05	15.06	16.07	17.09	18.10	17.4
23.1-25.0	25.1- 27.3	1.30	2.33	3.41	4.51	5.62	6.74	7.87	9.00	10.13	11.26	12.40	13.53	14.67	15.81	16.95	18.09	19.23	20.37	18.4
25.1-27.0	27.4- 29.5	1.42	2.54	3.71	4.90	6.11	7.32	8.55	9.77	11.00	12.23	13.46	14.70	15.93	17.17	18.40	19.64	20.88	22.12	19.2
27.1-29.0	29.7- 31.8	1.51	2.70	3.94	5.21	6.50	7.79	9.09	10.39	11.70	13.01	14.32	15.63	16.94	18.26	19.57	20.89	22.20	23.52	20.0
29.1-31.0	32.0- 34.2	1.58	2.83	4.13	5.46	6.81	8.17	9.53	10.90	12.27	13.65	15.02	16.40	17.78	19.16	20.54	21.92	23.30	24.68	20.7
31.1-33.0	34.3- 36.5	1.64	2.93	4.29	5.67	7.08	8.49	9.91	11.33	12.75	14.18	15.61	17.04	18.48	19.91	21.35	22.78	24.22	25.65	21.3
33.1-35.0	36.6- 38.9	1.68	3.02	4.42	5.85	7.30	8.76	10.22	11.69	13.16	14.64	16.11	17.59	19.07	20.55	22.04	23.52	25.00	26.48	21.8
35.1-37.0	39.0- 41.3	1.72	3.10	4.53	6.00	7.49	8.98	10.49	12.00	13.51	15.03	16.55	18.07	19.59	21.11	22.63	24.15	25.68	27.20	22.3
37.1-39.0	41.4- 43.8	1.76	3.16	4.63	6.13	7.65	9.18	10.72	12.27	13.82	15.37	16.92	18.48	20.03	21.59	23.15	24.71	26.27	27.83	22.7
39.1-41.0	43.9- 46.2	1.78	3.21	4.71	6.24	7.79	9.36	10.93	12.50	14.08	15.67	17.25	18.84	20.43	22.02	23.61	25.20	26.79	28.38	23.0
41.1-43.0	46.4- 48.7	1.80	3.25	4.78	6.34	7.91	9.51	11.10	12.71	14.32	15.93	17.54	19.16	20.77	22.39	24.01	25.63	27.25	28.87	23.4
43.1-45.0	48.9- 51.3	1.82	3.29	4.84	6.42	8.02	9.64	11.26	12.89	14.53	16.16	17.80	19.44	21.08	22.73	24.37	26.01	27.66	29.30	23.6
45.1-47.0	51.4- 53.8	1.84	3.33	4.89	6.49	8.12	9.76	11.40	13.05	14.71	16.37	18.03	19.69	21.36	23.02	24.69	26.36	28.03	29.69	23.9
47.1-49.0	53.9- 56.4	1.85	3.35	4.94	6.56	8.20	9.86	11.53	13.20	14.88	16.56	18.24	19.92	21.61	23.29	24.98	26.67	28.36	30.05	24.1
49.1-51.0	56.5- 59.0	1.86	3.38	4.97	6.61	8.28	9.95	11.64	13.33	15.03	16.72	18.42	20.13	21.83	23.54	25.24	26.95	28.66	30.36	24.3
51.1-53.0	59.1- 61.6	1.87	3.40	5.01	6.66	8.34	10.04	11.74	13.45	15.16	16.88	18.59	20.31	22.03	23.76	25.48	27.20	28.93	30.65	24.5
53.1-55.0	61.8- 64.3	1.88	3.41	5.04	6.71	8.40	10.11	11.83	13.55	15.28	17.01	18.75	20.48	22.22	23.96	25.69	27.43	29.17	30.92	24.6
55.1-57.0	64.4- 67.0	1.88	3.43	5.07	6.75	8.46	10.18	11.91	13.65	15.39	17.14	18.89	20.63	22.39	24.14	25.89	27.65	29.40	31.16	24.7
57.1-59.0	67.1- 69.7	1.89	3.44	5.09	6.78	8.50	10.24	11.98	13.74	15.49	17.25	19.01	20.78	22.54	24.31	26.07	27.84	29.61	31.38	24.9
59.1-61.0	69.9- 72.5	1.89	3.45	5.11	6.81	8.55	10.29	12.05	13.81	15.58	17.35	19.13	20.90	22.68	24.46	26.24	28.02	29.80	31.58	24.9
61.1-63.0	72.6- 75.3	1.89	3.46	5.13	6.84	8.58	10.34	12.11	13.89	15.67	17.45	19.23	21.02	22.81	24.60	26.39	28.18	29.97	31.77	25.0
63.1-65.0	75.4- 78.1	1.89	3.47	5.14	6.87	8.62	10.39	12.17	13.95	15.74	17.54	19.33	21.13	22.93	24.73	26.53	28.33	30.14	31.94	25.1
65.1-67.0	78.2- 80.9	1.89	3.47	5.15	6.89	8.65	10.43	12.22	14.01	15.81	17.62	19.42	21.23	23.04	24.85	26.66	28.47	30.28	32.10	25.2
67.1-69.0	81.0- 83.8	1.89	3.48	5.16	6.91	8.68	10.46	12.26	14.07	15.88	17.69	19.51	21.32	23.14	24.96	26.78	28.60	30.42	32.25	25.2
69.1-71.0	83.9- 86.7	1.89	3.48	5.17	6.92	8.70	10.50	12.30	14.12	15.94	17.76	19.58	21.41	23.24	25.06	26.89	28.72	30.55	32.38	25.3
71.1-73.0	86.8- 89.6	1.89	3.48	5.18	6.94	8.72	10.53	12.34	14.16	15.99	17.82	19.65	21.49	23.32	25.16	27.00	28.83	30.67	32.51	25.3
73.1-75.0	89.7- 92.5	1.89	3.48	5.19	6.95	8.74	10.55	12.38	14.21	16.04	17.88	19.72	21.56	23.40	25.25	27.09	28.94	30.78	32.63	25.4
75.1-77.0	92.7- 95.5	1.89	3.48	5.19	6.96	8.76	10.58	12.41	14.24	16.09	17.93	19.78	21.63	23.48	25.33	27.18	29.04	30.89	32.74	25.4
77.1-79.0	95.6- 98.5	1.88	3.48	5.20	6.97	8.78	10.60	12.44	14.28	16.13	17.98	19.84	21.69	23.55	25.41	27.27	29.13	30.99	32.85	25.4
79.1-81.0	98.7-101.5	1.88	3.48	5.20	6.98	8.79	10.62	12.46	14.31	16.17	18.03	19.89	21.75	23.62	25.48	27.35	29.21	31.08	32.95	25.5

8.0 MERCHANTABLE LENGTH TABLES FOR NATURAL REGIONS

1 TO 6, 9, 11 TO 16

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 28. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	5.9- 7.9	0.88	1.54	2.20	2.87	3.54	4.21	4.88	5.56	6.23	6.91	7.58	8.25	8.93	9.60	10.28	10.95	11.63	12.30	5.6
7.1- 9.0	8.0- 10.1	1.65	2.80	3.96	5.14	6.32	7.50	8.68	9.86	11.04	12.23	13.41	14.59	15.78	16.96	18.15	19.33	20.52	21.70	7.4
9.1-11.0	10.2- 12.2	1.99	3.36	4.76	6.16	7.57	8.99	10.40	11.82	13.23	14.65	16.07	17.49	18.91	20.33	21.75	23.17	24.59	26.01	9.1
11.1-13.0	12.3- 14.4	2.18	3.69	5.22	6.77	8.32	9.87	11.43	12.98	14.54	16.10	17.66	19.22	20.78	22.35	23.91	25.47	27.03	28.59	10.8
13.1-15.0	14.5- 16.6	2.29	3.89	5.52	7.15	8.80	10.45	12.10	13.75	15.41	17.06	18.72	20.37	22.03	23.68	25.34	27.00	28.66	30.31	12.4
15.1-17.0	16.7- 18.8	2.37	4.02	5.72	7.42	9.13	10.85	12.57	14.29	16.01	17.73	19.45	21.18	22.90	24.62	26.35	28.07	29.80	31.52	13.9
17.1-19.0	18.9- 21.0	2.41	4.12	5.85	7.61	9.37	11.14	12.90	14.67	16.45	18.22	19.99	21.76	23.54	25.31	27.08	28.86	30.63	32.41	15.3
19.1-21.0	21.1- 23.3	2.44	4.18	5.95	7.74	9.54	11.35	13.16	14.96	16.77	18.58	20.39	22.20	24.01	25.83	27.64	29.45	31.26	33.07	16.6
21.1-23.0	23.4- 25.6	2.45	4.22	6.02	7.85	9.68	11.51	13.35	15.18	17.02	18.86	20.70	22.54	24.38	26.22	28.06	29.90	31.74	33.58	17.8
23.1-25.0	25.7- 27.9	2.46	4.25	6.07	7.92	9.77	11.63	13.49	15.35	17.22	19.08	20.94	22.81	24.67	26.53	28.40	30.26	32.13	33.99	18.9
25.1-27.0	28.0- 30.2	2.46	4.26	6.11	7.97	9.85	11.73	13.61	15.49	17.37	19.25	21.14	23.02	24.90	26.78	28.67	30.55	32.43	34.31	19.9
27.1-29.0	30.3- 32.6	2.46	4.27	6.13	8.02	9.91	11.80	13.70	15.60	17.49	19.39	21.29	23.19	25.09	26.98	28.88	30.78	32.68	34.57	20.9
29.1-31.0	32.7- 34.9	2.45	4.27	6.15	8.04	9.95	11.86	13.77	15.68	17.59	19.50	21.42	23.33	25.24	27.15	29.06	30.97	32.88	34.79	21.7
31.1-33.0	35.0- 37.3	2.44	4.27	6.16	8.06	9.98	11.90	13.82	15.75	17.67	19.60	21.52	23.44	25.36	27.28	29.21	31.13	33.05	34.97	22.5
33.1-35.0	37.4- 39.7	2.43	4.27	6.16	8.08	10.00	11.94	13.87	15.80	17.74	19.67	21.60	23.53	25.47	27.40	29.33	31.26	33.19	35.12	23.2
35.1-37.0	39.8- 42.2	2.42	4.26	6.16	8.08	10.02	11.96	13.90	15.85	17.79	19.73	21.67	23.61	25.55	27.49	29.43	31.37	33.31	35.24	23.8
37.1-39.0	42.3- 44.6	2.40	4.24	6.15	8.09	10.03	11.98	13.93	15.88	17.83	19.78	21.73	23.68	25.62	27.57	29.52	31.46	33.41	35.35	24.4
39.1-41.0	44.7- 47.1	2.39	4.23	6.14	8.08	10.03	11.99	13.95	15.91	17.86	19.82	21.78	23.73	25.68	27.64	29.59	31.54	33.49	35.44	25.0
41.1-43.0	47.2- 49.6	2.37	4.22	6.13	8.08	10.04	12.00	13.96	15.93	17.89	19.85	21.81	23.78	25.73	27.69	29.65	31.61	33.56	35.52	25.4
43.1-45.0	49.7- 52.1	2.35	4.20	6.12	8.07	10.03	12.00	13.97	15.94	17.91	19.88	21.85	23.81	25.78	27.74	29.70	31.66	33.63	35.59	25.9
45.1-47.0	52.3- 54.7	2.34	4.18	6.10	8.06	10.03	12.00	13.98	15.95	17.93	19.90	21.87	23.84	25.81	27.78	29.75	31.71	33.68	35.64	26.3
47.1-49.0	54.8- 57.2	2.32	4.16	6.09	8.04	10.02	12.00	13.98	15.96	17.94	19.92	21.89	23.87	25.84	27.81	29.78	31.75	33.72	35.69	26.6
49.1-51.0	57.4- 59.8	2.30	4.14	6.07	8.03	10.01	11.99	13.98	15.96	17.94	19.93	21.91	23.89	25.86	27.84	29.82	31.79	33.76	35.74	26.9
51.1-53.0	60.0- 62.4	2.29	4.12	6.05	8.01	9.99	11.98	13.97	15.96	17.95	19.93	21.92	23.90	25.88	27.86	29.84	31.82	33.80	35.77	27.2
53.1-55.0	62.6- 65.1	2.27	4.10	6.03	8.00	9.98	11.97	13.96	15.96	17.95	19.94	21.93	23.91	25.90	27.88	29.86	31.85	33.82	35.80	27.5
55.1-57.0	65.2- 67.7	2.25	4.08	6.01	7.98	9.96	11.96	13.95	15.95	17.95	19.94	21.93	23.92	25.91	27.90	29.88	31.87	33.85	35.83	27.7
57.1-59.0	67.9- 70.4	2.23	4.06	5.99	7.96	9.95	11.94	13.94	15.94	17.94	19.94	21.93	23.93	25.92	27.91	29.90	31.88	33.87	35.85	28.0
59.1-61.0	70.5- 73.1	2.22	4.04	5.96	7.94	9.93	11.93	13.93	15.93	17.94	19.94	21.93	23.93	25.93	27.92	29.91	31.90	33.88	35.87	28.1
61.1-63.0	73.3- 75.8	2.20	4.02	5.94	7.91	9.91	11.91	13.92	15.92	17.93	19.93	21.93	23.93	25.93	27.92	29.92	31.91	33.90	35.89	28.3
63.1-65.0	76.0- 78.6	2.18	4.00	5.92	7.89	9.89	11.89	13.90	15.91	17.92	19.92	21.93	23.93	25.93	27.93	29.92	31.92	33.91	35.90	28.5
65.1-67.0	78.7- 81.3	2.17	3.97	5.90	7.87	9.87	11.87	13.88	15.90	17.91	19.92	21.92	23.93	25.93	27.93	29.93	31.92	33.92	35.91	28.6
67.1-69.0	81.5- 84.1	2.15	3.95	5.87	7.84	9.84	11.85	13.87	15.88	17.89	19.91	21.91	23.92	25.93	27.93	29.93	31.93	33.92	35.92	28.8
69.1-71.0	84.3- 86.9	2.13	3.93	5.85	7.82	9.82	11.83	13.85	15.86	17.88	19.89	21.90	23.91	25.92	27.92	29.93	31.93	33.93	35.92	28.9
71.1-73.0	87.1- 89.8	2.12	3.91	5.82	7.80	9.80	11.81	13.83	15.85	17.86	19.88	21.89	23.91	25.91	27.92	29.92	31.93	33.93	35.93	29.0
73.1-75.0	89.9- 92.6	2.10	3.89	5.80	7.77	9.77	11.79	13.81	15.83	17.85	19.87	21.88	23.90	25.91	27.91	29.92	31.93	33.93	35.93	29.1
75.1-77.0	92.8- 95.5	2.09	3.87	5.77	7.75	9.75	11.76	13.78	15.81	17.83	19.85	21.87	23.88	25.90	27.91	29.92	31.92	33.93	35.93	29.2
77.1-79.0	95.7- 98.4	2.07	3.84	5.75	7.72	9.72	11.74	13.76	15.79	17.81	19.83	21.85	23.87	25.89	27.90	29.91	31.92	33.92	35.93	29.2
79.1-81.0	98.6-101.3	2.06	3.82	5.73	7.69	9.70	11.71	13.74	15.77	17.79	19.82	21.84	23.86	25.88	27.89	29.90	31.91	33.92	35.92	29.3

Table 29. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.0- 10.1	0.63	1.10	1.58	2.05	2.53	3.01	3.49	3.97	4.45	4.92	5.40	5.88	6.36	6.84	7.32	7.80	8.28	8.76	7.4
9.1-11.0	10.2- 12.2	1.29	2.24	3.22	4.21	5.21	6.21	7.21	8.21	9.22	10.22	11.23	12.23	13.24	14.25	15.26	16.27	17.27	18.28	9.1
11.1-13.0	12.3- 14.4	1.62	2.80	4.02	5.24	6.48	7.72	8.96	10.21	11.45	12.70	13.95	15.20	16.45	17.70	18.95	20.20	21.45	22.70	10.8
13.1-15.0	14.5- 16.6	1.81	3.14	4.50	5.88	7.27	8.66	10.06	11.45	12.85	14.26	15.66	17.06	18.47	19.87	21.27	22.68	24.08	25.49	12.4
15.1-17.0	16.7- 18.8	1.94	3.36	4.83	6.31	7.80	9.30	10.81	12.31	13.82	15.33	16.84	18.35	19.87	21.38	22.89	24.40	25.92	27.43	13.9
17.1-19.0	18.9- 21.0	2.02	3.52	5.06	6.62	8.19	9.77	11.35	12.94	14.53	16.12	17.71	19.30	20.89	22.48	24.08	25.67	27.27	28.86	15.3
19.1-21.0	21.1- 23.3	2.08	3.63	5.23	6.85	8.48	10.12	11.76	13.41	15.06	16.71	18.36	20.01	21.67	23.32	24.98	26.63	28.29	29.95	16.6
21.1-23.0	23.4- 25.6	2.12	3.71	5.35	7.02	8.70	10.38	12.07	13.77	15.47	17.17	18.87	20.57	22.27	23.98	25.68	27.38	29.09	30.79	17.8
23.1-25.0	25.7- 27.9	2.15	3.77	5.44	7.15	8.86	10.59	12.32	14.05	15.79	17.53	19.27	21.01	22.75	24.49	26.24	27.98	29.72	31.47	18.9
25.1-27.0	28.0- 30.2	2.16	3.81	5.52	7.25	9.00	10.75	12.52	14.28	16.05	17.82	19.59	21.37	23.14	24.91	26.69	28.46	30.24	32.01	19.9
27.1-29.0	30.3- 32.6	2.17	3.84	5.57	7.33	9.10	10.88	12.67	14.46	16.26	18.06	19.86	21.65	23.45	25.26	27.06	28.86	30.66	32.46	20.9
29.1-31.0	32.7- 34.9	2.18	3.86	5.61	7.39	9.18	10.99	12.80	14.61	16.43	18.25	20.07	21.89	23.72	25.54	27.36	29.18	31.01	32.83	21.7
31.1-33.0	35.0- 37.3	2.18	3.87	5.64	7.43	9.25	11.07	12.90	14.74	16.57	18.41	20.25	22.09	23.93	25.77	27.62	29.46	31.30	33.14	22.5
33.1-35.0	37.4- 39.7	2.18	3.88	5.66	7.47	9.30	11.14	12.99	14.84	16.69	18.54	20.40	22.26	24.11	25.97	27.83	29.69	31.55	33.41	23.2
35.1-37.0	39.8- 42.2	2.17	3.88	5.67	7.49	9.34	11.19	13.05	14.92	16.79	18.66	20.53	22.40	24.27	26.14	28.01	29.88	31.76	33.63	23.8
37.1-39.0	42.3- 44.6	2.16	3.88	5.68	7.51	9.37	11.24	13.11	14.99	16.87	18.75	20.63	22.52	24.40	26.28	28.17	30.05	31.94	33.82	24.4
39.1-41.0	44.7- 47.1	2.16	3.88	5.68	7.53	9.39	11.27	13.15	15.04	16.93	18.83	20.72	22.62	24.51	26.41	28.30	30.19	32.09	33.98	25.0
41.1-43.0	47.2- 49.6	2.15	3.87	5.68	7.53	9.41	11.30	13.19	15.09	16.99	18.89	20.80	22.70	24.61	26.51	28.41	30.32	32.22	34.13	25.4
43.1-45.0	49.7- 52.1	2.13	3.86	5.68	7.54	9.42	11.32	13.22	15.13	17.04	18.95	20.86	22.77	24.69	26.60	28.51	30.42	32.34	34.25	25.9
45.1-47.0	52.3- 54.7	2.12	3.85	5.67	7.54	9.43	11.33	13.24	15.16	17.08	18.99	20.91	22.84	24.76	26.68	28.60	30.52	32.44	34.36	26.3
47.1-49.0	54.8- 57.2	2.11	3.84	5.66	7.53	9.43	11.34	13.26	15.18	17.11	19.03	20.96	22.89	24.82	26.74	28.67	30.60	32.52	34.45	26.6
49.1-51.0	57.4- 59.8	2.10	3.82	5.65	7.52	9.43	11.34	13.27	15.20	17.13	19.06	21.00	22.93	24.87	26.80	28.73	30.67	32.60	34.53	26.9
51.1-53.0	60.0- 62.4	2.08	3.81	5.64	7.52	9.42	11.35	13.28	15.21	17.15	19.09	21.03	22.97	24.91	26.85	28.79	30.73	32.67	34.60	27.2
53.1-55.0	62.6- 65.1	2.07	3.79	5.62	7.50	9.42	11.34	13.28	15.22	17.16	19.11	21.06	23.00	24.95	26.89	28.84	30.78	32.72	34.67	27.5
55.1-57.0	65.2- 67.7	2.06	3.77	5.61	7.49	9.41	11.34	13.28	15.23	17.18	19.13	21.08	23.03	24.98	26.93	28.88	30.83	32.77	34.72	27.7
57.1-59.0	67.9- 70.4	2.04	3.76	5.59	7.48	9.40	11.33	13.28	15.23	17.18	19.14	21.09	23.05	25.00	26.96	28.91	30.86	32.82	34.77	28.0
59.1-61.0	70.5- 73.1	2.03	3.74	5.57	7.46	9.38	11.32	13.27	15.23	17.19	19.15	21.10	23.06	25.02	26.98	28.94	30.90	32.85	34.81	28.1
61.1-63.0	73.3- 75.8	2.02	3.72	5.55	7.44	9.37	11.31	13.27	15.22	17.19	19.15	21.11	23.08	25.04	27.00	28.97	30.93	32.89	34.85	28.3
63.1-65.0	76.0- 78.6	2.00	3.71	5.53	7.43	9.35	11.30	13.26	15.22	17.18	19.15	21.12	23.09	25.05	27.02	28.99	30.95	32.91	34.88	28.5
65.1-67.0	78.7- 81.3	1.99	3.69	5.51	7.41	9.34	11.29	13.25	15.21	17.18	19.15	21.12	23.09	25.06	27.03	29.00	30.97	32.94	34.91	28.6
67.1-69.0	81.5- 84.1	1.98	3.67	5.49	7.39	9.32	11.27	13.23	15.20	17.17	19.15	21.12	23.10	25.07	27.04	29.02	30.99	32.96	34.93	28.8
69.1-71.0	84.3- 86.9	1.96	3.65	5.47	7.37	9.30	11.25	13.22	15.19	17.17	19.14	21.12	23.10	25.07	27.05	29.03	31.00	32.97	34.95	28.9
71.1-73.0	87.1- 89.8	1.95	3.63	5.45	7.35	9.28	11.23	13.20	15.18	17.15	19.14	21.12	23.10	25.08	27.06	29.03	31.01	32.99	34.96	29.0
73.1-75.0	89.9- 92.6	1.93	3.61	5.43	7.32	9.26	11.21	13.18	15.16	17.14	19.13	21.11	23.09	25.08	27.06	29.04	31.02	33.00	34.98	29.1
75.1-77.0	92.8- 95.5	1.92	3.59	5.41	7.30	9.24	11.19	13.17	15.15	17.13	19.12	21.10	23.09	25.07	27.06	29.04	31.02	33.01	34.99	29.2
77.1-79.0	95.7- 98.4	1.91	3.58	5.39	7.28	9.21	11.17	13.15	15.13	17.11	19.10	21.09	23.08	25.07	27.06	29.04	31.03	33.01	34.99	29.2
79.1-81.0	98.6-101.3	1.90	3.56	5.37	7.26	9.19	11.15	13.13	15.11	17.10	19.09	21.08	23.07	25.06	27.05	29.04	31.03	33.01	35.00	29.3

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 30. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.4	0.73	1.30	1.88	2.46	3.05	3.65	4.24	4.84	5.44	6.04	6.64	7.25	7.85	8.45	9.06	9.66	10.26	10.87	10.8
13.1-15.0	14.5- 16.6	1.11	1.97	2.87	3.78	4.71	5.64	6.58	7.51	8.45	9.40	10.34	11.29	12.23	13.18	14.12	15.07	16.02	16.97	12.4
15.1-17.0	16.7- 18.8	1.34	2.38	3.46	4.57	5.69	6.81	7.94	9.08	10.22	11.35	12.49	13.64	14.78	15.92	17.06	18.21	19.35	20.50	13.9
17.1-19.0	18.9- 21.0	1.49	2.66	3.87	5.11	6.36	7.62	8.88	10.15	11.42	12.70	13.98	15.25	16.53	17.81	19.09	20.37	21.66	22.94	15.3
19.1-21.0	21.1- 23.3	1.60	2.85	4.16	5.49	6.84	8.20	9.57	10.94	12.31	13.69	15.07	16.45	17.83	19.21	20.60	21.98	23.36	24.75	16.6
21.1-23.0	23.4- 25.6	1.68	3.00	4.38	5.79	7.21	8.65	10.09	11.54	13.00	14.45	15.91	17.37	18.83	20.29	21.76	23.22	24.69	26.15	17.8
23.1-25.0	25.7- 27.9	1.74	3.11	4.54	6.01	7.50	9.00	10.51	12.02	13.54	15.06	16.58	18.10	19.63	21.15	22.68	24.21	25.74	27.27	18.9
25.1-27.0	28.0- 30.2	1.78	3.19	4.67	6.19	7.73	9.28	10.84	12.40	13.97	15.54	17.12	18.69	20.27	21.85	23.43	25.01	26.59	28.17	19.9
27.1-29.0	30.3- 32.6	1.81	3.26	4.77	6.33	7.91	9.50	11.10	12.71	14.32	15.94	17.56	19.18	20.80	22.42	24.04	25.67	27.30	28.92	20.9
29.1-31.0	32.7- 34.9	1.83	3.30	4.85	6.44	8.06	9.68	11.32	12.97	14.61	16.27	17.92	19.58	21.24	22.90	24.56	26.22	27.88	29.55	21.7
31.1-33.0	35.0- 37.3	1.85	3.34	4.92	6.53	8.18	9.84	11.50	13.18	14.86	16.54	18.23	19.92	21.61	23.30	24.99	26.69	28.38	30.08	22.5
33.1-35.0	37.4- 39.7	1.86	3.37	4.97	6.61	8.28	9.96	11.65	13.36	15.06	16.77	18.49	20.20	21.92	23.64	25.36	27.08	28.80	30.53	23.2
35.1-37.0	39.8- 42.2	1.87	3.39	5.01	6.67	8.36	10.06	11.78	13.50	15.24	16.97	18.71	20.45	22.19	23.93	25.67	27.42	29.17	30.91	23.8
37.1-39.0	42.3- 44.6	1.87	3.41	5.04	6.72	8.42	10.15	11.89	13.63	15.38	17.14	18.89	20.66	22.42	24.18	25.95	27.71	29.48	31.25	24.4
39.1-41.0	44.7- 47.1	1.87	3.42	5.06	6.75	8.48	10.22	11.98	13.74	15.51	17.28	19.06	20.83	22.62	24.40	26.18	27.96	29.75	31.54	25.0
41.1-43.0	47.2- 49.6	1.87	3.42	5.08	6.78	8.52	10.28	12.05	13.83	15.61	17.40	19.20	20.99	22.79	24.59	26.38	28.19	29.99	31.79	25.4
43.1-45.0	49.7- 52.1	1.87	3.42	5.09	6.81	8.56	10.33	12.11	13.91	15.71	17.51	19.32	21.13	22.94	24.75	26.56	28.38	30.19	32.01	25.9
45.1-47.0	52.3- 54.7	1.86	3.42	5.09	6.82	8.59	10.37	12.17	13.97	15.78	17.60	19.42	21.24	23.07	24.89	26.72	28.55	30.38	32.21	26.3
47.1-49.0	54.8- 57.2	1.86	3.42	5.10	6.84	8.61	10.40	12.21	14.03	15.85	17.68	19.51	21.34	23.18	25.02	26.86	28.70	30.54	32.38	26.6
49.1-51.0	57.4- 59.8	1.85	3.42	5.10	6.84	8.62	10.43	12.25	14.07	15.91	17.75	19.59	21.43	23.28	25.13	26.98	28.83	30.68	32.53	26.9
51.1-53.0	60.0- 62.4	1.84	3.41	5.10	6.85	8.64	10.45	12.27	14.11	15.95	17.80	19.66	21.51	23.37	25.22	27.08	28.94	30.80	32.66	27.2
53.1-55.0	62.6- 65.1	1.84	3.40	5.09	6.85	8.64	10.46	12.30	14.14	16.00	17.85	19.71	21.58	23.44	25.31	27.18	29.05	30.91	32.78	27.5
55.1-57.0	65.2- 67.7	1.83	3.39	5.09	6.85	8.65	10.47	12.32	14.17	16.03	17.89	19.76	21.63	23.51	25.38	27.26	29.14	31.01	32.89	27.7
57.1-59.0	67.9- 70.4	1.82	3.38	5.08	6.84	8.65	10.48	12.33	14.19	16.06	17.93	19.81	21.69	23.57	25.45	27.33	29.22	31.10	32.99	28.0
59.1-61.0	70.5- 73.1	1.81	3.37	5.07	6.84	8.65	10.49	12.34	14.21	16.08	17.96	19.84	21.73	23.62	25.51	27.40	29.29	31.18	33.07	28.1
61.1-63.0	73.3- 75.8	1.80	3.36	5.06	6.83	8.64	10.49	12.35	14.22	16.10	17.98	19.87	21.77	23.66	25.56	27.45	29.35	31.25	33.15	28.3
63.1-65.0	76.0- 78.6	1.79	3.35	5.05	6.82	8.64	10.49	12.35	14.23	16.11	18.00	19.90	21.80	23.70	25.60	27.50	29.40	31.31	33.21	28.5
65.1-67.0	78.7- 81.3	1.78	3.34	5.03	6.81	8.63	10.48	12.35	14.23	16.12	18.02	19.92	21.82	23.73	25.64	27.54	29.45	31.36	33.27	28.6
67.1-69.0	81.5- 84.1	1.77	3.32	5.02	6.80	8.62	10.47	12.35	14.24	16.13	18.03	19.94	21.85	23.76	25.67	27.58	29.50	31.41	33.32	28.8
69.1-71.0	84.3- 86.9	1.76	3.31	5.00	6.78	8.61	10.47	12.34	14.23	16.13	18.04	19.95	21.86	23.78	25.70	27.61	29.53	31.45	33.37	28.9
71.1-73.0	87.1- 89.8	1.75	3.30	4.99	6.77	8.60	10.46	12.34	14.23	16.14	18.05	19.96	21.88	23.80	25.72	27.64	29.56	31.49	33.41	29.0
73.1-75.0	89.9- 92.6	1.74	3.28	4.97	6.75	8.58	10.44	12.33	14.23	16.13	18.05	19.97	21.89	23.81	25.74	27.66	29.59	31.52	33.45	29.1
75.1-77.0	92.8- 95.5	1.73	3.27	4.96	6.74	8.57	10.43	12.32	14.22	16.13	18.05	19.97	21.90	23.82	25.75	27.68	29.62	31.55	33.48	29.2
77.1-79.0	95.7- 98.4	1.72	3.25	4.94	6.72	8.55	10.42	12.31	14.21	16.12	18.05	19.97	21.90	23.83	25.77	27.70	29.64	31.57	33.51	29.2
79.1-81.0	98.6-101.3	1.71	3.24	4.92	6.70	8.53	10.40	12.29	14.20	16.12	18.04	19.97	21.90	23.84	25.78	27.71	29.65	31.59	33.53	29.3

Table 31. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.4	0.41	0.68	0.91	1.12	1.30	1.47	1.63	1.78	1.93	2.07	2.20	2.34	2.47	2.59	2.72	2.85	2.98	3.10	10.8
13.1-15.0	14.5- 16.6	0.86	1.54	2.25	2.97	3.69	4.43	5.16	5.90	6.64	7.39	8.13	8.88	9.62	10.37	11.12	11.87	12.61	13.36	12.4
15.1-17.0	16.7- 18.8	1.14	2.04	2.98	3.94	4.92	5.90	6.88	7.87	8.87	9.86	10.86	11.86	12.85	13.85	14.85	15.85	16.86	17.86	13.9
17.1-19.0	18.9- 21.0	1.32	2.37	3.46	4.58	5.71	6.86	8.00	9.16	10.31	11.47	12.63	13.79	14.95	16.12	17.28	18.44	19.61	20.77	15.3
19.1-21.0	21.1- 23.3	1.45	2.60	3.80	5.04	6.28	7.54	8.81	10.08	11.35	12.63	13.91	15.19	16.47	17.75	19.03	20.32	21.60	22.89	16.6
21.1-23.0	23.4- 25.6	1.54	2.77	4.06	5.38	6.71	8.06	9.42	10.78	12.14	13.51	14.88	16.25	17.63	19.00	20.38	21.75	23.13	24.51	17.8
23.1-25.0	25.7- 27.9	1.61	2.90	4.25	5.64	7.04	8.46	9.89	11.32	12.76	14.20	15.65	17.09	18.54	19.99	21.43	22.88	24.34	25.79	18.9
25.1-27.0	28.0- 30.2	1.66	3.00	4.40	5.84	7.31	8.78	10.27	11.76	13.26	14.76	16.26	17.77	19.27	20.78	22.29	23.80	25.31	26.82	19.9
27.1-29.0	30.3- 32.6	1.70	3.07	4.52	6.01	7.52	9.04	10.58	12.12	13.66	15.21	16.77	18.32	19.88	21.44	23.00	24.56	26.12	27.68	20.9
29.1-31.0	32.7- 34.9	1.73	3.13	4.61	6.14	7.69	9.25	10.83	12.41	14.00	15.59	17.18	18.78	20.38	21.98	23.58	25.19	26.79	28.40	21.7
31.1-33.0	35.0- 37.3	1.75	3.18	4.69	6.25	7.83	9.43	11.04	12.65	14.28	15.91	17.54	19.17	20.80	22.44	24.08	25.72	27.36	29.00	22.5
33.1-35.0	37.4- 39.7	1.77	3.21	4.75	6.33	7.94	9.57	11.21	12.86	14.51	16.17	17.83	19.50	21.16	22.83	24.50	26.17	27.84	29.52	23.2
35.1-37.0	39.8- 42.2	1.78	3.24	4.80	6.40	8.04	9.69	11.36	13.03	14.71	16.40	18.09	19.78	21.47	23.17	24.86	26.56	28.26	29.96	23.8
37.1-39.0	42.3- 44.6	1.78	3.26	4.84	6.46	8.12	9.79	11.48	13.18	14.88	16.59	18.30	20.02	21.74	23.45	25.18	26.90	28.62	30.34	24.4
39.1-41.0	44.7- 47.1	1.79	3.28	4.87	6.51	8.18	9.88	11.59	13.30	15.03	16.76	18.49	20.23	21.96	23.70	25.45	27.19	28.93	30.68	25.0
41.1-43.0	47.2- 49.6	1.79	3.29	4.89	6.55	8.24	9.95	11.68	13.41	15.15	16.90	18.65	20.41	22.16	23.92	25.68	27.44	29.21	30.97	25.4
43.1-45.0	49.7- 52.1	1.79	3.29	4.91	6.58	8.28	10.01	11.75	13.50	15.26	17.03	18.79	20.56	22.34	24.11	25.89	27.67	29.45	31.22	25.9
45.1-47.0	52.3- 54.7	1.79	3.30	4.92	6.60	8.32	10.06	11.81	13.58	15.35	17.13	18.92	20.70	22.49	24.28	26.07	27.86	29.66	31.45	26.3
47.1-49.0	54.8- 57.2	1.78	3.30	4.93	6.62	8.35	10.10	11.87	13.65	15.43	17.23	19.02	20.82	22.62	24.43	26.23	28.04	29.84	31.65	26.6
49.1-51.0	57.4- 59.8	1.78	3.30	4.93	6.63	8.37	10.13	11.91	13.70	15.50	17.31	19.11	20.92	22.74	24.55	26.37	28.19	30.01	31.83	26.9
51.1-53.0	60.0- 62.4	1.77	3.29	4.93	6.64	8.39	10.16	11.95	13.75	15.56	17.38	19.19	21.02	22.84	24.67	26.50	28.33	30.16	31.99	27.2
53.1-55.0	62.6- 65.1	1.77	3.29	4.93	6.65	8.40	10.18	11.98	13.79	15.61	17.44	19.26	21.10	22.93	24.77	26.61	28.45	30.29	32.13	27.5
55.1-57.0	65.2- 67.7	1.76	3.28	4.93	6.65	8.41	10.20	12.01	13.83	15.65	17.49	19.33	21.17	23.01	24.86	26.70	28.55	30.40	32.25	27.7
57.1-59.0	67.9- 70.4	1.75	3.27	4.92	6.65	8.42	10.21	12.03	13.85	15.69	17.53	19.38	21.23	23.08	24.93	26.79	28.65	30.51	32.37	28.0
59.1-61.0	70.5- 73.1	1.75	3.27	4.92	6.65	8.42	10.22	12.04	13.88	15.72	17.57	19.42	21.28	23.14	25.00	26.87	28.73	30.60	32.47	28.1
61.1-63.0	73.3- 75.8	1.74	3.26	4.91	6.64	8.42	10.23	12.05	13.89	15.74	17.60	19.46	21.33	23.19	25.06	26.94	28.81	30.68	32.55	28.3
63.1-65.0	76.0- 78.6	1.73	3.25	4.90	6.63	8.42	10.23	12.06	13.91	15.76	17.63	19.50	21.37	23.24	25.12	27.00	28.87	30.75	32.63	28.5
65.1-67.0	78.7- 81.3	1.72	3.23	4.89	6.63	8.41	10.23	12.07	13.92	15.78	17.65	19.52	21.40	23.28	25.16	27.05	28.93	30.82	32.71	28.6
67.1-69.0	81.5- 84.1	1.71	3.22	4.88	6.62	8.40	10.23	12.07	13.93	15.79	17.67	19.55	21.43	23.32	25.20	27.09	28.99	30.88	32.77	28.8
69.1-71.0	84.3- 86.9	1.70	3.21	4.87	6.60	8.40	10.22	12.07	13.93	15.80	17.68	19.57	21.45	23.35	25.24	27.14	29.03	30.93	32.83	28.9
71.1-73.0	87.1- 89.8	1.69	3.20	4.85	6.59	8.39	10.21	12.06	13.93	15.81	17.69	19.58	21.47	23.37	25.27	27.17	29.07	30.97	32.88	29.0
73.1-75.0	89.9- 92.6	1.69	3.19	4.84	6.58	8.37	10.21	12.06	13.93	15.81	17.70	19.59	21.49	23.39	25.30	27.20	29.11	31.01	32.92	29.1
75.1-77.0	92.8- 95.5	1.68	3.17	4.82	6.56	8.36	10.19	12.05	13.93	15.81	17.70	19.60	21.50	23.41	25.32	27.23	29.14	31.05	32.96	29.2
77.1-79.0	95.7- 98.4	1.67	3.16	4.81	6.55	8.35	10.18	12.04	13.92	15.81	17.70	19.61	21.51	23.42	25.34	27.25	29.16	31.08	33.00	29.2
79.1-81.0	98.6-101.3	1.66	3.15	4.79	6.53	8.33	10.17	12.03	13.91	15.80	17.70	19.61	21.52	23.43	25.35	27.27	29.19	31.11	33.03	29.3

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 32. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.5- 16.6	0.37	0.58	0.75	0.88	0.99	1.07	1.15	1.23	1.30	1.37	1.44	1.51	1.59	1.66	1.73	1.81	1.89	1.97	12.4
15.1-17.0	16.7- 18.8	0.74	1.32	1.92	2.53	3.14	3.77	4.39	5.02	5.65	6.29	6.92	7.56	8.19	8.83	9.47	10.11	10.75	11.39	13.9
17.1-19.0	18.9- 21.0	0.98	1.78	2.61	3.46	4.33	5.20	6.09	6.97	7.86	8.75	9.65	10.54	11.44	12.34	13.24	14.14	15.04	15.94	15.3
19.1-21.0	21.1- 23.3	1.15	2.09	3.07	4.08	5.11	6.15	7.20	8.25	9.31	10.36	11.43	12.49	13.55	14.62	15.68	16.75	17.82	18.89	16.6
21.1-23.0	23.4- 25.6	1.28	2.31	3.41	4.54	5.68	6.84	8.01	9.18	10.36	11.54	12.72	13.91	15.09	16.28	17.47	18.66	19.85	21.04	17.8
23.1-25.0	25.7- 27.9	1.37	2.48	3.67	4.88	6.12	7.37	8.63	9.89	11.17	12.44	13.72	15.00	16.28	17.56	18.84	20.13	21.41	22.70	18.9
25.1-27.0	28.0- 30.2	1.44	2.62	3.86	5.15	6.46	7.78	9.12	10.46	11.81	13.16	14.51	15.86	17.22	18.58	19.94	21.30	22.67	24.03	19.9
27.1-29.0	30.3- 32.6	1.49	2.72	4.02	5.36	6.73	8.12	9.51	10.92	12.32	13.74	15.15	16.57	17.99	19.42	20.84	22.26	23.69	25.12	20.9
29.1-31.0	32.7- 34.9	1.53	2.80	4.15	5.54	6.95	8.39	9.84	11.29	12.75	14.22	15.69	17.16	18.63	20.11	21.58	23.06	24.54	26.02	21.7
31.1-33.0	35.0- 37.3	1.56	2.86	4.25	5.68	7.14	8.62	10.11	11.60	13.11	14.62	16.13	17.65	19.17	20.69	22.21	23.74	25.26	26.79	22.5
33.1-35.0	37.4- 39.7	1.59	2.91	4.33	5.79	7.29	8.80	10.33	11.87	13.41	14.96	16.51	18.07	19.63	21.19	22.75	24.31	25.88	27.44	23.2
35.1-37.0	39.8- 42.2	1.61	2.95	4.40	5.89	7.42	8.96	10.52	12.09	13.67	15.25	16.83	18.42	20.02	21.61	23.21	24.80	26.40	28.00	23.8
37.1-39.0	42.3- 44.6	1.62	2.99	4.45	5.97	7.52	9.09	10.68	12.28	13.89	15.50	17.11	18.73	20.35	21.98	23.60	25.23	26.86	28.49	24.4
39.1-41.0	44.7- 47.1	1.63	3.01	4.50	6.04	7.61	9.21	10.82	12.44	14.07	15.71	17.35	19.00	20.65	22.30	23.95	25.60	27.26	28.92	25.0
41.1-43.0	47.2- 49.6	1.64	3.03	4.53	6.09	7.68	9.30	10.94	12.58	14.24	15.90	17.56	19.23	20.90	22.58	24.25	25.93	27.61	29.29	25.4
43.1-45.0	49.7- 52.1	1.64	3.05	4.56	6.14	7.75	9.38	11.04	12.70	14.38	16.06	17.74	19.43	21.13	22.82	24.52	26.22	27.92	29.62	25.9
45.1-47.0	52.3- 54.7	1.65	3.06	4.58	6.17	7.80	9.45	11.13	12.81	14.50	16.20	17.90	19.61	21.32	23.04	24.75	26.47	28.19	29.91	26.3
47.1-49.0	54.8- 57.2	1.65	3.07	4.60	6.20	7.84	9.51	11.20	12.90	14.61	16.32	18.04	19.77	21.50	23.23	24.96	26.69	28.43	30.17	26.6
49.1-51.0	57.4- 59.8	1.65	3.07	4.61	6.23	7.88	9.56	11.26	12.98	14.70	16.43	18.17	19.91	21.65	23.39	25.14	26.89	28.64	30.40	26.9
51.1-53.0	60.0- 62.4	1.65	3.07	4.62	6.25	7.91	9.60	11.32	13.04	14.78	16.52	18.27	20.03	21.78	23.54	25.31	27.07	28.84	30.60	27.2
53.1-55.0	62.6- 65.1	1.64	3.07	4.63	6.26	7.94	9.64	11.36	13.10	14.85	16.61	18.37	20.13	21.90	23.68	25.45	27.23	29.01	30.79	27.5
55.1-57.0	65.2- 67.7	1.64	3.07	4.63	6.27	7.95	9.67	11.40	13.15	14.91	16.68	18.45	20.23	22.01	23.79	25.58	27.37	29.16	30.95	27.7
57.1-59.0	67.9- 70.4	1.64	3.07	4.63	6.28	7.97	9.69	11.44	13.19	14.96	16.74	18.52	20.31	22.11	23.90	25.70	27.50	29.30	31.10	28.0
59.1-61.0	70.5- 73.1	1.63	3.06	4.63	6.28	7.98	9.71	11.46	13.23	15.01	16.80	18.59	20.39	22.19	23.99	25.80	27.61	29.42	31.23	28.1
61.1-63.0	73.3- 75.8	1.63	3.06	4.63	6.28	7.99	9.73	11.49	13.26	15.05	16.84	18.65	20.45	22.26	24.08	25.89	27.71	29.53	31.35	28.3
63.1-65.0	76.0- 78.6	1.62	3.05	4.63	6.28	7.99	9.74	11.50	13.29	15.08	16.88	18.69	20.51	22.33	24.15	25.98	27.80	29.63	31.46	28.5
65.1-67.0	78.7- 81.3	1.61	3.05	4.62	6.28	8.00	9.74	11.52	13.31	15.11	16.92	18.74	20.56	22.39	24.22	26.05	27.88	29.72	31.56	28.6
67.1-69.0	81.5- 84.1	1.61	3.04	4.61	6.28	7.99	9.75	11.53	13.32	15.13	16.95	18.77	20.60	22.44	24.28	26.11	27.96	29.80	31.64	28.8
69.1-71.0	84.3- 86.9	1.60	3.03	4.60	6.27	7.99	9.75	11.53	13.34	15.15	16.97	18.81	20.64	22.48	24.33	26.17	28.02	29.87	31.72	28.9
71.1-73.0	87.1- 89.8	1.59	3.02	4.60	6.26	7.99	9.75	11.54	13.35	15.17	17.00	18.83	20.68	22.52	24.37	26.22	28.08	29.94	31.79	29.0
73.1-75.0	89.9- 92.6	1.59	3.01	4.59	6.25	7.98	9.75	11.54	13.35	15.18	17.01	18.85	20.70	22.56	24.41	26.27	28.13	29.99	31.86	29.1
75.1-77.0	92.8- 95.5	1.58	3.00	4.57	6.24	7.97	9.74	11.54	13.36	15.19	17.03	18.87	20.73	22.59	24.45	26.31	28.18	30.05	31.91	29.2
77.1-79.0	95.7- 98.4	1.57	2.99	4.56	6.23	7.96	9.74	11.54	13.36	15.19	17.04	18.89	20.75	22.61	24.48	26.35	28.22	30.09	31.97	29.2
79.1-81.0	98.6-101.3	1.56	2.98	4.55	6.22	7.95	9.73	11.53	13.36	15.19	17.04	18.90	20.76	22.63	24.50	26.38	28.25	30.13	32.01	29.3

Table 33. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.7- 18.8	0.34	0.53	0.65	0.74	0.80	0.84	0.89	0.93	0.97	1.02	1.07	1.12	1.18	1.23	1.29	1.35	1.41	1.46	13.9
17.1-19.0	18.9- 21.0	0.65	1.15	1.66	2.17	2.69	3.21	3.74	4.26	4.79	5.32	5.85	6.38	6.91	7.44	7.97	8.50	9.04	9.57	15.3
19.1-21.0	21.1- 23.3	0.87	1.57	2.30	3.06	3.83	4.61	5.39	6.19	6.98	7.78	8.58	9.38	10.19	10.99	11.80	12.61	13.41	14.22	16.6
21.1-23.0	23.4- 25.6	1.02	1.86	2.75	3.66	4.60	5.54	6.50	7.46	8.42	9.39	10.36	11.33	12.31	13.28	14.26	15.24	16.22	17.20	17.8
23.1-25.0	25.7- 27.9	1.14	2.08	3.08	4.11	5.16	6.23	7.30	8.39	9.48	10.57	11.66	12.76	13.86	14.96	16.06	17.17	18.27	19.38	18.9
25.1-27.0	28.0- 30.2	1.23	2.24	3.33	4.45	5.60	6.76	7.93	9.11	10.29	11.48	12.67	13.87	15.07	16.26	17.46	18.67	19.87	21.07	19.9
27.1-29.0	30.3- 32.6	1.30	2.37	3.53	4.72	5.94	7.18	8.43	9.68	10.95	12.21	13.48	14.76	16.03	17.31	18.59	19.87	21.15	22.43	20.9
29.1-31.0	32.7- 34.9	1.35	2.48	3.69	4.94	6.22	7.52	8.83	10.15	11.48	12.81	14.15	15.49	16.83	18.17	19.52	20.86	22.21	23.56	21.7
31.1-33.0	35.0- 37.3	1.39	2.56	3.82	5.12	6.45	7.80	9.17	10.54	11.92	13.31	14.70	16.10	17.49	18.89	20.29	21.69	23.10	24.50	22.5
33.1-35.0	37.4- 39.7	1.43	2.63	3.92	5.27	6.64	8.04	9.45	10.87	12.30	13.73	15.17	16.61	18.05	19.50	20.95	22.40	23.85	25.30	23.2
35.1-37.0	39.8- 42.2	1.45	2.68	4.01	5.39	6.80	8.24	9.69	11.15	12.61	14.09	15.57	17.05	18.54	20.02	21.51	23.01	24.50	25.99	23.8
37.1-39.0	42.3- 44.6	1.47	2.73	4.08	5.49	6.94	8.40	9.89	11.38	12.89	14.40	15.91	17.43	18.95	20.48	22.00	23.53	25.06	26.59	24.4
39.1-41.0	44.7- 47.1	1.49	2.76	4.14	5.58	7.05	8.55	10.06	11.59	13.12	14.66	16.21	17.76	19.31	20.87	22.43	23.99	25.55	27.11	25.0
41.1-43.0	47.2- 49.6	1.50	2.79	4.19	5.65	7.15	8.67	10.21	11.76	13.32	14.89	16.47	18.04	19.63	21.21	22.80	24.39	25.98	27.57	25.4
43.1-45.0	49.7- 52.1	1.51	2.82	4.23	5.71	7.23	8.77	10.34	11.91	13.50	15.09	16.69	18.30	19.90	21.51	23.13	24.74	26.36	27.97	25.9
45.1-47.0	52.3- 54.7	1.52	2.84	4.27	5.76	7.30	8.86	10.45	12.05	13.65	15.27	16.89	18.52	20.15	21.78	23.41	25.05	26.69	28.33	26.3
47.1-49.0	54.8- 57.2	1.53	2.85	4.29	5.80	7.36	8.94	10.54	12.16	13.79	15.42	17.07	18.71	20.36	22.02	23.67	25.33	26.99	28.65	26.6
49.1-51.0	57.4- 59.8	1.53	2.86	4.32	5.84	7.41	9.01	10.63	12.26	13.91	15.56	17.22	18.88	20.55	22.23	23.90	25.58	27.26	28.94	26.9
51.1-53.0	60.0- 62.4	1.53	2.87	4.33	5.87	7.45	9.07	10.70	12.35	14.01	15.68	17.36	19.04	20.72	22.41	24.10	25.80	27.49	29.19	27.2
53.1-55.0	62.6- 65.1	1.53	2.88	4.35	5.89	7.49	9.11	10.76	12.43	14.10	15.79	17.48	19.17	20.87	22.58	24.29	26.00	27.71	29.42	27.5
55.1-57.0	65.2- 67.7	1.53	2.88	4.36	5.91	7.52	9.16	10.82	12.49	14.18	15.88	17.58	19.29	21.01	22.73	24.45	26.17	27.90	29.63	27.7
57.1-59.0	67.9- 70.4	1.53	2.88	4.36	5.93	7.54	9.19	10.86	12.55	14.25	15.96	17.68	19.40	21.13	22.86	24.60	26.33	28.07	29.81	28.0
59.1-61.0	70.5- 73.1	1.53	2.88	4.37	5.94	7.56	9.22	10.90	12.60	14.31	16.03	17.76	19.50	21.24	22.98	24.73	26.48	28.23	29.98	28.1
61.1-63.0	73.3- 75.8	1.53	2.88	4.37	5.95	7.58	9.25	10.94	12.65	14.37	16.10	17.84	19.58	21.33	23.09	24.85	26.61	28.37	30.13	28.3
63.1-65.0	76.0- 78.6	1.52	2.88	4.37	5.96	7.59	9.27	10.96	12.68	14.41	16.15	17.90	19.66	21.42	23.18	24.95	26.72	28.49	30.27	28.5
65.1-67.0	78.7- 81.3	1.52	2.87	4.37	5.96	7.60	9.28	10.99	12.71	14.45	16.20	17.96	19.73	21.50	23.27	25.05	26.83	28.61	30.39	28.6
67.1-69.0	81.5- 84.1	1.51	2.87	4.37	5.96	7.61	9.29	11.01	12.74	14.49	16.25	18.01	19.79	21.57	23.35	25.13	26.92	28.71	30.51	28.8
69.1-71.0	84.3- 86.9	1.51	2.86	4.36	5.96	7.61	9.30	11.02	12.76	14.52	16.28	18.06	19.84	21.63	23.42	25.21	27.01	28.81	30.61	28.9
71.1-73.0	87.1- 89.8	1.50	2.86	4.36	5.96	7.61	9.31	11.04	12.78	14.54	16.32	18.10	19.89	21.68	23.48	25.28	27.08	28.89	30.70	29.0
73.1-75.0	89.9- 92.6	1.50	2.85	4.35	5.95	7.61	9.31	11.04	12.80	14.56	16.34	18.13	19.93	21.73	23.53	25.34	27.15	28.97	30.78	29.1
75.1-77.0	92.8- 95.5	1.49	2.84	4.35	5.95	7.61	9.32	11.05	12.81	14.58	16.37	18.16	19.96	21.77	23.58	25.40	27.22	29.04	30.86	29.2
77.1-79.0	95.7- 98.4	1.49	2.83	4.34	5.94	7.61	9.31	11.05	12.82	14.60	16.39	18.19	19.99	21.81	23.62	25.45	27.27	29.10	30.93	29.2
79.1-81.0	98.6-101.3	1.48	2.83	4.33	5.93	7.60	9.31	11.06	12.82	14.61	16.40	18.21	20.02	21.84	23.66	25.49	27.32	29.15	30.99	29.3

9.0 PROVINCIAL MERCHANTABLE LENGTH TABLES

Table 34. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	6.1- 8.0	1.01	1.72	2.44	3.16	3.88	4.60	5.32	6.04	6.76	7.48	8.20	8.92	9.64	10.36	11.08	11.80	12.52	13.25	5.6
7.1- 9.0	8.1- 10.1	1.80	2.98	4.16	5.35	6.53	7.72	8.91	10.10	11.28	12.47	13.66	14.85	16.04	17.23	18.42	19.61	20.79	21.98	7.4
9.1-11.0	10.2- 12.2	2.17	3.56	4.96	6.36	7.76	9.17	10.58	11.98	13.39	14.79	16.20	17.61	19.02	20.42	21.83	23.24	24.64	26.05	9.2
11.1-13.0	12.3- 14.3	2.38	3.90	5.43	6.96	8.50	10.04	11.58	13.12	14.65	16.19	17.73	19.27	20.81	22.35	23.89	25.43	26.97	28.51	10.9
13.1-15.0	14.4- 16.4	2.51	4.12	5.74	7.36	8.99	10.62	12.25	13.87	15.50	17.13	18.76	20.39	22.02	23.65	25.28	26.91	28.54	30.17	12.5
15.1-17.0	16.5- 18.6	2.60	4.27	5.96	7.65	9.34	11.03	12.72	14.41	16.11	17.80	19.49	21.19	22.88	24.57	26.27	27.96	29.66	31.35	14.0
17.1-19.0	18.7- 20.8	2.66	4.38	6.12	7.85	9.59	11.33	13.07	14.81	16.55	18.30	20.04	21.78	23.52	25.26	27.00	28.75	30.49	32.23	15.3
19.1-21.0	20.9- 23.0	2.71	4.47	6.24	8.01	9.79	11.56	13.34	15.12	16.90	18.68	20.46	22.23	24.01	25.79	27.57	29.35	31.13	32.91	16.5
21.1-23.0	23.1- 25.2	2.74	4.53	6.33	8.13	9.94	11.74	13.55	15.36	17.17	18.98	20.78	22.59	24.40	26.21	28.02	29.83	31.63	33.44	17.6
23.1-25.0	25.3- 27.4	2.76	4.57	6.40	8.23	10.06	11.89	13.72	15.55	17.38	19.22	21.05	22.88	24.71	26.54	28.38	30.21	32.04	33.87	18.6
25.1-27.0	27.6- 29.7	2.78	4.61	6.45	8.30	10.15	12.00	13.86	15.71	17.56	19.41	21.26	23.11	24.97	26.82	28.67	30.52	32.37	34.22	19.5
27.1-29.0	29.8- 32.0	2.79	4.64	6.50	8.36	10.23	12.10	13.97	15.84	17.70	19.57	21.44	23.31	25.18	27.04	28.91	30.78	32.65	34.51	20.2
29.1-31.0	32.1- 34.4	2.79	4.66	6.53	8.41	10.30	12.18	14.06	15.94	17.83	19.71	21.59	23.47	25.35	27.23	29.12	31.00	32.88	34.76	20.9
31.1-33.0	34.5- 36.7	2.80	4.67	6.56	8.45	10.35	12.24	14.14	16.03	17.93	19.82	21.72	23.61	25.50	27.40	29.29	31.18	33.07	34.97	21.5
33.1-35.0	36.8- 39.1	2.80	4.68	6.58	8.49	10.39	12.30	14.20	16.11	18.01	19.92	21.82	23.73	25.63	27.53	29.44	31.34	33.24	35.14	22.1
35.1-37.0	39.2- 41.5	2.79	4.69	6.60	8.51	10.43	12.34	14.26	16.17	18.09	20.00	21.91	23.83	25.74	27.65	29.56	31.47	33.39	35.30	22.6
37.1-39.0	41.6- 43.9	2.79	4.69	6.61	8.54	10.46	12.38	14.31	16.23	18.15	20.07	21.99	23.91	25.83	27.75	29.67	31.59	33.51	35.43	23.0
39.1-41.0	44.0- 46.4	2.78	4.69	6.62	8.55	10.49	12.42	14.35	16.28	18.21	20.14	22.06	23.99	25.92	27.84	29.77	31.70	33.62	35.55	23.4
41.1-43.0	46.5- 48.8	2.78	4.69	6.63	8.57	10.51	12.45	14.38	16.32	18.25	20.19	22.12	24.06	25.99	27.92	29.85	31.79	33.72	35.65	23.7
43.1-45.0	49.0- 51.3	2.77	4.69	6.63	8.58	10.52	12.47	14.41	16.36	18.30	20.24	22.18	24.12	26.05	27.99	29.93	31.87	33.80	35.74	24.0
45.1-47.0	51.5- 53.9	2.76	4.69	6.63	8.59	10.54	12.49	14.44	16.39	18.33	20.28	22.22	24.17	26.11	28.05	30.00	31.94	33.88	35.82	24.2
47.1-49.0	54.0- 56.4	2.75	4.68	6.64	8.59	10.55	12.51	14.46	16.41	18.36	20.31	22.26	24.21	26.16	28.11	30.06	32.00	33.95	35.89	24.4
49.1-51.0	56.6- 59.0	2.74	4.68	6.63	8.60	10.56	12.52	14.48	16.44	18.39	20.35	22.30	24.25	26.21	28.16	30.11	32.06	34.01	35.96	24.6
51.1-53.0	59.1- 61.6	2.73	4.67	6.63	8.60	10.57	12.53	14.50	16.46	18.42	20.38	22.33	24.29	26.25	28.20	30.16	32.11	34.06	36.02	24.8
53.1-55.0	61.7- 64.2	2.72	4.66	6.63	8.60	10.57	12.54	14.51	16.47	18.44	20.40	22.36	24.32	26.28	28.24	30.20	32.16	34.11	36.07	25.0
55.1-57.0	64.4- 66.9	2.71	4.65	6.62	8.60	10.58	12.55	14.52	16.49	18.46	20.42	22.39	24.35	26.31	28.28	30.24	32.20	34.16	36.12	25.1
57.1-59.0	67.0- 69.5	2.70	4.65	6.62	8.60	10.58	12.56	14.53	16.50	18.47	20.44	22.41	24.38	26.34	28.31	30.27	32.23	34.20	36.16	25.2
59.1-61.0	69.7- 72.2	2.69	4.64	6.61	8.60	10.58	12.56	14.54	16.51	18.49	20.46	22.43	24.40	26.37	28.34	30.30	32.27	34.23	36.20	25.3
61.1-63.0	72.4- 75.0	2.68	4.63	6.61	8.59	10.58	12.56	14.54	16.52	18.50	20.48	22.45	24.42	26.39	28.36	30.33	32.30	34.27	36.23	25.4
63.1-65.0	75.1- 77.7	2.67	4.62	6.60	8.59	10.58	12.56	14.55	16.53	18.51	20.49	22.46	24.44	26.41	28.38	30.36	32.33	34.30	36.27	25.5
65.1-67.0	77.9- 80.5	2.66	4.61	6.59	8.58	10.58	12.57	14.55	16.54	18.52	20.50	22.48	24.46	26.43	28.41	30.38	32.35	34.32	36.30	25.6
67.1-69.0	80.6- 83.3	2.65	4.59	6.58	8.58	10.57	12.57	14.56	16.54	18.53	20.51	22.49	24.47	26.45	28.43	30.40	32.38	34.35	36.32	25.6
69.1-71.0	83.4- 86.1	2.63	4.58	6.57	8.57	10.57	12.56	14.56	16.55	18.53	20.52	22.50	24.48	26.46	28.44	30.42	32.40	34.37	36.35	25.7
71.1-73.0	86.2- 88.9	2.62	4.57	6.56	8.56	10.56	12.56	14.56	16.55	18.54	20.53	22.51	24.50	26.48	28.46	30.44	32.42	34.39	36.37	25.7
73.1-75.0	89.1- 91.8	2.61	4.56	6.55	8.56	10.56	12.56	14.56	16.55	18.54	20.53	22.52	24.51	26.49	28.47	30.45	32.43	34.41	36.39	25.8
75.1-77.0	92.0- 94.7	2.60	4.55	6.54	8.55	10.55	12.56	14.56	16.55	18.55	20.54	22.53	24.52	26.50	28.48	30.47	32.45	34.43	36.41	25.8
77.1-79.0	94.9- 97.6	2.59	4.54	6.53	8.54	10.55	12.55	14.56	16.55	18.55	20.54	22.53	24.52	26.51	28.50	30.48	32.46	34.45	36.43	25.8
79.1-81.0	97.8-100.6	2.58	4.52	6.52	8.53	10.54	12.55	14.55	16.55	18.55	20.55	22.54	24.53	26.52	28.51	30.49	32.48	34.46	36.44	25.9

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 35. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

		TOTAL TREE HEIGHT (m)																		
DBHOB (cm)	STUMP DOB (cm)	3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.1- 10.1	0.69	1.21	1.73	2.25	2.77	3.29	3.82	4.34	4.86	5.39	5.91	6.43	6.96	7.48	8.01	8.53	9.05	9.58	7.4
9.1-11.0	10.2- 12.2	1.43	2.42	3.42	4.42	5.43	6.44	7.44	8.45	9.46	10.47	11.49	12.50	13.51	14.52	15.53	16.54	17.55	18.56	9.2
11.1-13.0	12.3- 14.3	1.79	3.01	4.24	5.48	6.71	7.95	9.19	10.43	11.68	12.92	14.16	15.40	16.65	17.89	19.13	20.38	21.62	22.86	10.9
13.1-15.0	14.4- 16.4	2.02	3.38	4.75	6.14	7.52	8.91	10.29	11.68	13.07	14.46	15.85	17.24	18.62	20.01	21.40	22.79	24.18	25.57	12.5
15.1-17.0	16.5- 18.6	2.17	3.63	5.11	6.59	8.08	9.56	11.05	12.55	14.04	15.53	17.02	18.51	20.01	21.50	22.99	24.48	25.98	27.47	14.0
17.1-19.0	18.7- 20.8	2.28	3.81	5.36	6.92	8.48	10.05	11.61	13.18	14.75	16.32	17.89	19.46	21.03	22.59	24.16	25.73	27.30	28.87	15.3
19.1-21.0	20.9- 23.0	2.35	3.94	5.55	7.17	8.79	10.42	12.04	13.67	15.30	16.92	18.55	20.18	21.81	23.44	25.07	26.69	28.32	29.95	16.5
21.1-23.0	23.1- 25.2	2.41	4.05	5.70	7.37	9.03	10.71	12.38	14.05	15.73	17.40	19.08	20.75	22.43	24.10	25.78	27.45	29.13	30.81	17.6
23.1-25.0	25.3- 27.4	2.45	4.12	5.82	7.52	9.23	10.94	12.65	14.36	16.07	17.78	19.50	21.21	22.92	24.64	26.35	28.07	29.78	31.49	18.6
25.1-27.0	27.6- 29.7	2.48	4.19	5.91	7.64	9.38	11.12	12.87	14.61	16.35	18.10	19.84	21.59	23.33	25.08	26.82	28.57	30.31	32.06	19.5
27.1-29.0	29.8- 32.0	2.51	4.23	5.99	7.75	9.51	11.28	13.05	14.82	16.59	18.36	20.13	21.90	23.67	25.44	27.22	28.99	30.76	32.53	20.2
29.1-31.0	32.1- 34.4	2.53	4.27	6.05	7.83	9.62	11.41	13.20	14.99	16.78	18.58	20.37	22.16	23.96	25.75	27.55	29.34	31.13	32.93	20.9
31.1-33.0	34.5- 36.7	2.54	4.30	6.10	7.90	9.70	11.51	13.33	15.14	16.95	18.76	20.57	22.39	24.20	26.01	27.83	29.64	31.45	33.27	21.5
33.1-35.0	36.8- 39.1	2.55	4.33	6.14	7.96	9.78	11.61	13.43	15.26	17.09	18.92	20.75	22.58	24.41	26.24	28.07	29.90	31.73	33.56	22.1
35.1-37.0	39.2- 41.5	2.55	4.35	6.17	8.00	9.84	11.68	13.53	15.37	17.21	19.06	20.90	22.75	24.59	26.43	28.28	30.12	31.97	33.81	22.6
37.1-39.0	41.6- 43.9	2.56	4.36	6.20	8.04	9.90	11.75	13.61	15.46	17.32	19.18	21.03	22.89	24.75	26.60	28.46	30.32	32.17	34.03	23.0
39.1-41.0	44.0- 46.4	2.56	4.37	6.22	8.08	9.94	11.81	13.68	15.54	17.41	19.28	21.15	23.02	24.88	26.75	28.62	30.49	32.36	34.22	23.4
41.1-43.0	46.5- 48.8	2.56	4.38	6.24	8.11	9.98	11.86	13.74	15.61	17.49	19.37	21.25	23.13	25.01	26.88	28.76	30.64	32.52	34.39	23.7
43.1-45.0	49.0- 51.3	2.55	4.38	6.25	8.13	10.01	11.90	13.79	15.68	17.56	19.45	21.34	23.23	25.11	27.00	28.89	30.77	32.66	34.55	24.0
45.1-47.0	51.5- 53.9	2.55	4.39	6.26	8.15	10.04	11.94	13.83	15.73	17.63	19.52	21.42	23.31	25.21	27.10	29.00	30.89	32.79	34.68	24.2
47.1-49.0	54.0- 56.4	2.54	4.39	6.27	8.17	10.07	11.97	13.87	15.78	17.68	19.58	21.49	23.39	25.29	27.20	29.10	31.00	32.90	34.80	24.4
49.1-51.0	56.6- 59.0	2.54	4.39	6.28	8.18	10.09	12.00	13.91	15.82	17.73	19.64	21.55	23.46	25.37	27.28	29.19	31.10	33.00	34.91	24.6
51.1-53.0	59.1- 61.6	2.53	4.39	6.28	8.19	10.10	12.02	13.94	15.86	17.77	19.69	21.61	23.52	25.44	27.35	29.27	31.18	33.10	35.01	24.8
53.1-55.0	61.7- 64.2	2.53	4.38	6.28	8.20	10.12	12.04	13.97	15.89	17.81	19.74	21.66	23.58	25.50	27.42	29.34	31.26	33.18	35.10	25.0
55.1-57.0	64.4- 66.9	2.52	4.38	6.28	8.20	10.13	12.06	13.99	15.92	17.85	19.77	21.70	23.63	25.56	27.48	29.41	31.33	33.26	35.18	25.1
57.1-59.0	67.0- 69.5	2.51	4.37	6.28	8.21	10.14	12.08	14.01	15.94	17.88	19.81	21.74	23.67	25.61	27.54	29.47	31.40	33.32	35.25	25.2
59.1-61.0	69.7- 72.2	2.50	4.37	6.28	8.21	10.15	12.09	14.03	15.97	17.91	19.84	21.78	23.72	25.65	27.59	29.52	31.45	33.39	35.32	25.3
61.1-63.0	72.4- 75.0	2.49	4.36	6.28	8.21	10.16	12.10	14.04	15.99	17.93	19.87	21.81	23.75	25.69	27.63	29.57	31.51	33.44	35.38	25.4
63.1-65.0	75.1- 77.7	2.48	4.35	6.27	8.21	10.16	12.11	14.06	16.00	17.95	19.90	21.84	23.79	25.73	27.67	29.61	31.56	33.50	35.44	25.5
65.1-67.0	77.9- 80.5	2.47	4.34	6.27	8.21	10.16	12.12	14.07	16.02	17.97	19.92	21.87	23.82	25.76	27.71	29.66	31.60	33.55	35.49	25.6
67.1-69.0	80.6- 83.3	2.46	4.34	6.26	8.21	10.16	12.12	14.08	16.03	17.99	19.94	21.89	23.84	25.79	27.74	29.69	31.64	33.59	35.54	25.6
69.1-71.0	83.4- 86.1	2.46	4.33	6.26	8.21	10.17	12.13	14.09	16.04	18.00	19.96	21.91	23.87	25.82	27.78	29.73	31.68	33.63	35.58	25.7
71.1-73.0	86.2- 88.9	2.45	4.32	6.25	8.20	10.16	12.13	14.09	16.05	18.02	19.98	21.93	23.89	25.85	27.80	29.76	31.71	33.67	35.62	25.7
73.1-75.0	89.1- 91.8	2.44	4.31	6.24	8.20	10.16	12.13	14.10	16.06	18.03	19.99	21.95	23.91	25.87	27.83	29.79	31.75	33.70	35.66	25.8
75.1-77.0	92.0- 94.7	2.43	4.30	6.23	8.19	10.16	12.13	14.10	16.07	18.04	20.00	21.97	23.93	25.89	27.85	29.82	31.77	33.73	35.69	25.8
77.1-79.0	94.9- 97.6	2.42	4.29	6.23	8.19	10.16	12.13	14.10	16.08	18.05	20.01	21.98	23.95	25.91	27.88	29.84	31.80	33.76	35.72	25.8
79.1-81.0	97.8-100.6	2.41	4.28	6.22	8.18	10.15	12.13	14.11	16.08	18.05	20.02	21.99	23.96	25.93	27.90	29.86	31.83	33.79	35.75	25.9

Table 36. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.3	0.78	1.37	1.97	2.57	3.17	3.78	4.39	5.00	5.60	6.21	6.82	7.43	8.04	8.65	9.26	9.87	10.48	11.09	10.9
13.1-15.0	14.4- 16.4	1.23	2.14	3.06	3.99	4.93	5.87	6.81	7.75	8.69	9.63	10.57	11.52	12.46	13.40	14.35	15.29	16.24	17.18	12.5
15.1-17.0	16.5- 18.6	1.51	2.60	3.72	4.84	5.97	7.10	8.23	9.36	10.50	11.63	12.77	13.90	15.04	16.18	17.32	18.45	19.59	20.73	14.0
17.1-19.0	18.7- 20.8	1.70	2.92	4.17	5.42	6.68	7.94	9.21	10.47	11.74	13.01	14.28	15.55	16.82	18.09	19.36	20.63	21.90	23.17	15.3
19.1-21.0	20.9- 23.0	1.84	3.15	4.49	5.85	7.20	8.57	9.93	11.30	12.66	14.03	15.40	16.77	18.14	19.51	20.88	22.25	23.62	24.99	16.5
21.1-23.0	23.1- 25.2	1.94	3.33	4.74	6.17	7.61	9.05	10.49	11.93	13.38	14.82	16.27	17.71	19.16	20.61	22.06	23.51	24.95	26.40	17.6
23.1-25.0	25.3- 27.4	2.02	3.46	4.94	6.43	7.93	9.43	10.93	12.44	13.94	15.45	16.96	18.47	19.98	21.49	23.00	24.51	26.02	27.53	18.6
25.1-27.0	27.6- 29.7	2.08	3.57	5.10	6.64	8.18	9.74	11.29	12.85	14.41	15.97	17.53	19.09	20.65	22.21	23.77	25.33	26.90	28.46	19.5
27.1-29.0	29.8- 32.0	2.13	3.66	5.22	6.81	8.40	9.99	11.59	13.19	14.79	16.39	17.99	19.60	21.20	22.81	24.41	26.02	27.62	29.23	20.2
29.1-31.0	32.1- 34.4	2.16	3.73	5.33	6.95	8.57	10.20	11.84	13.47	15.11	16.75	18.39	20.03	21.67	23.31	24.95	26.60	28.24	29.88	20.9
31.1-33.0	34.5- 36.7	2.19	3.78	5.41	7.06	8.72	10.38	12.05	13.71	15.38	17.05	18.73	20.40	22.07	23.74	25.41	27.09	28.76	30.43	21.5
33.1-35.0	36.8- 39.1	2.21	3.83	5.49	7.16	8.85	10.53	12.23	13.92	15.62	17.32	19.01	20.71	22.41	24.11	25.81	27.51	29.21	30.91	22.1
35.1-37.0	39.2- 41.5	2.23	3.87	5.55	7.25	8.95	10.67	12.38	14.10	15.82	17.54	19.26	20.99	22.71	24.43	26.16	27.88	29.61	31.33	22.6
37.1-39.0	41.6- 43.9	2.25	3.90	5.60	7.32	9.05	10.78	12.52	14.26	16.00	17.74	19.48	21.23	22.97	24.71	26.46	28.20	29.95	31.69	23.0
39.1-41.0	44.0- 46.4	2.26	3.93	5.64	7.38	9.12	10.88	12.63	14.39	16.15	17.91	19.67	21.44	23.20	24.96	26.72	28.49	30.25	32.02	23.4
41.1-43.0	46.5- 48.8	2.26	3.95	5.68	7.43	9.19	10.96	12.74	14.51	16.29	18.06	19.84	21.62	23.40	25.18	26.96	28.74	30.52	32.30	23.7
43.1-45.0	49.0- 51.3	2.27	3.96	5.71	7.48	9.25	11.04	12.83	14.62	16.41	18.20	19.99	21.79	23.58	25.37	27.17	28.96	30.76	32.55	24.0
45.1-47.0	51.5- 53.9	2.27	3.98	5.74	7.52	9.31	11.10	12.91	14.71	16.51	18.32	20.13	21.93	23.74	25.55	27.36	29.16	30.97	32.78	24.2
47.1-49.0	54.0- 56.4	2.28	3.99	5.76	7.55	9.35	11.16	12.98	14.79	16.61	18.43	20.25	22.06	23.88	25.70	27.52	29.34	31.16	32.99	24.4
49.1-51.0	56.6- 59.0	2.28	4.00	5.78	7.58	9.39	11.21	13.04	14.86	16.69	18.52	20.35	22.18	24.01	25.84	27.68	29.51	31.34	33.17	24.6
51.1-53.0	59.1- 61.6	2.27	4.00	5.79	7.60	9.43	11.26	13.09	14.93	16.77	18.61	20.45	22.29	24.13	25.97	27.81	29.65	31.49	33.34	24.8
53.1-55.0	61.7- 64.2	2.27	4.01	5.80	7.62	9.46	11.30	13.14	14.99	16.84	18.69	20.54	22.39	24.24	26.09	27.94	29.79	31.64	33.49	25.0
55.1-57.0	64.4- 66.9	2.27	4.01	5.81	7.64	9.48	11.33	13.19	15.04	16.90	18.76	20.61	22.47	24.33	26.19	28.05	29.91	31.77	33.63	25.1
57.1-59.0	67.0- 69.5	2.27	4.01	5.82	7.66	9.51	11.37	13.23	15.09	16.95	18.82	20.69	22.55	24.42	26.29	28.15	30.02	31.88	33.75	25.2
59.1-61.0	69.7- 72.2	2.26	4.01	5.83	7.67	9.53	11.39	13.26	15.13	17.00	18.88	20.75	22.62	24.50	26.37	28.25	30.12	31.99	33.87	25.3
61.1-63.0	72.4- 75.0	2.26	4.01	5.83	7.68	9.55	11.42	13.29	15.17	17.05	18.93	20.81	22.69	24.57	26.45	28.33	30.21	32.09	33.97	25.4
63.1-65.0	75.1- 77.7	2.25	4.01	5.83	7.69	9.56	11.44	13.32	15.20	17.09	18.98	20.86	22.75	24.64	26.52	28.41	30.30	32.18	34.07	25.5
65.1-67.0	77.9- 80.5	2.25	4.01	5.84	7.70	9.57	11.46	13.35	15.24	17.13	19.02	20.91	22.80	24.70	26.59	28.48	30.38	32.27	34.16	25.6
67.1-69.0	80.6- 83.3	2.24	4.00	5.84	7.70	9.58	11.47	13.37	15.26	17.16	19.06	20.96	22.86	24.75	26.65	28.55	30.45	32.34	34.24	25.6
69.1-71.0	83.4- 86.1	2.23	4.00	5.83	7.71	9.59	11.49	13.39	15.29	17.19	19.09	21.00	22.90	24.80	26.71	28.61	30.51	32.42	34.32	25.7
71.1-73.0	86.2- 88.9	2.23	3.99	5.83	7.71	9.60	11.50	13.40	15.31	17.22	19.13	21.04	22.94	24.85	26.76	28.67	30.58	32.48	34.39	25.7
73.1-75.0	89.1- 91.8	2.22	3.99	5.83	7.71	9.61	11.51	13.42	15.33	17.24	19.16	21.07	22.98	24.90	26.81	28.72	30.63	32.54	34.46	25.8
75.1-77.0	92.0- 94.7	2.21	3.98	5.83	7.71	9.61	11.52	13.43	15.35	17.27	19.18	21.10	23.02	24.93	26.85	28.77	30.68	32.60	34.52	25.8
77.1-79.0	94.9- 97.6	2.21	3.97	5.82	7.71	9.61	11.53	13.44	15.36	17.29	19.21	21.13	23.05	24.97	26.89	28.81	30.73	32.65	34.57	25.8
79.1-81.0	97.8-100.6	2.20	3.96	5.82	7.71	9.62	11.53	13.45	15.38	17.30	19.23	21.16	23.08	25.01	26.93	28.85	30.78	32.70	34.63	25.9

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 37. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.3	0.37	0.63	0.86	1.08	1.29	1.49	1.69	1.89	2.09	2.28	2.47	2.66	2.85	3.04	3.23	3.41	3.60	3.79	10.9
13.1-15.0	14.4- 16.4	0.94	1.65	2.38	3.11	3.85	4.59	5.33	6.08	6.82	7.57	8.31	9.06	9.80	10.55	11.30	12.04	12.79	13.54	12.5
15.1-17.0	16.5- 18.6	1.28	2.23	3.20	4.18	5.16	6.15	7.14	8.14	9.13	10.12	11.12	12.11	13.11	14.10	15.10	16.10	17.09	18.09	14.0
17.1-19.0	18.7- 20.8	1.51	2.61	3.74	4.88	6.02	7.17	8.32	9.48	10.63	11.79	12.94	14.10	15.25	16.41	17.57	18.73	19.88	21.04	15.3
19.1-21.0	20.9- 23.0	1.67	2.88	4.12	5.38	6.64	7.90	9.17	10.44	11.71	12.99	14.26	15.53	16.81	18.08	19.36	20.63	21.90	23.18	16.5
21.1-23.0	23.1- 25.2	1.79	3.09	4.41	5.76	7.11	8.46	9.82	11.18	12.54	13.90	15.27	16.63	17.99	19.36	20.72	22.09	23.45	24.82	17.6
23.1-25.0	25.3- 27.4	1.88	3.24	4.64	6.06	7.48	8.90	10.33	11.76	13.20	14.63	16.06	17.50	18.94	20.37	21.81	23.24	24.68	26.12	18.6
25.1-27.0	27.6- 29.7	1.95	3.37	4.82	6.29	7.77	9.26	10.74	12.23	13.73	15.22	16.71	18.21	19.70	21.20	22.69	24.19	25.68	27.18	19.5
27.1-29.0	29.8- 32.0	2.00	3.47	4.97	6.49	8.02	9.55	11.08	12.62	14.16	15.71	17.25	18.79	20.34	21.88	23.42	24.97	26.51	28.06	20.2
29.1-31.0	32.1- 34.4	2.05	3.55	5.09	6.65	8.22	9.79	11.37	12.95	14.53	16.11	17.70	19.28	20.87	22.45	24.04	25.63	27.21	28.80	20.9
31.1-33.0	34.5- 36.7	2.08	3.62	5.19	6.78	8.39	10.00	11.61	13.23	14.84	16.46	18.08	19.70	21.32	22.95	24.57	26.19	27.81	29.43	21.5
33.1-35.0	36.8- 39.1	2.11	3.67	5.27	6.90	8.53	10.17	11.82	13.46	15.11	16.76	18.41	20.06	21.71	23.37	25.02	26.67	28.33	29.98	22.1
35.1-37.0	39.2- 41.5	2.13	3.72	5.35	6.99	8.65	10.32	11.99	13.67	15.34	17.02	18.70	20.37	22.05	23.73	25.41	27.09	28.77	30.46	22.6
37.1-39.0	41.6- 43.9	2.15	3.75	5.41	7.08	8.76	10.45	12.15	13.84	15.54	17.24	18.94	20.65	22.35	24.05	25.76	27.46	29.17	30.87	23.0
39.1-41.0	44.0- 46.4	2.16	3.79	5.46	7.15	8.85	10.56	12.28	14.00	15.72	17.44	19.16	20.89	22.61	24.34	26.06	27.79	29.51	31.24	23.4
41.1-43.0	46.5- 48.8	2.18	3.81	5.50	7.21	8.93	10.66	12.40	14.14	15.87	17.61	19.36	21.10	22.84	24.59	26.33	28.07	29.82	31.56	23.7
43.1-45.0	49.0- 51.3	2.18	3.83	5.54	7.26	9.00	10.75	12.50	14.26	16.01	17.77	19.53	21.29	23.05	24.81	26.57	28.33	30.09	31.85	24.0
45.1-47.0	51.5- 53.9	2.19	3.85	5.57	7.31	9.06	10.83	12.59	14.36	16.13	17.91	19.68	21.46	23.23	25.01	26.78	28.56	30.33	32.11	24.2
47.1-49.0	54.0- 56.4	2.19	3.87	5.59	7.35	9.12	10.89	12.67	14.46	16.24	18.03	19.82	21.61	23.40	25.18	26.97	28.76	30.55	32.34	24.4
49.1-51.0	56.6- 59.0	2.20	3.88	5.62	7.38	9.16	10.95	12.75	14.54	16.34	18.14	19.94	21.74	23.54	25.35	27.15	28.95	30.75	32.56	24.6
51.1-53.0	59.1- 61.6	2.20	3.89	5.64	7.41	9.21	11.01	12.81	14.62	16.43	18.24	20.05	21.86	23.68	25.49	27.30	29.12	30.93	32.75	24.8
53.1-55.0	61.7- 64.2	2.20	3.89	5.65	7.44	9.24	11.05	12.87	14.69	16.51	18.33	20.15	21.97	23.80	25.62	27.45	29.27	31.10	32.92	25.0
55.1-57.0	64.4- 66.9	2.20	3.90	5.67	7.46	9.27	11.09	12.92	14.75	16.58	18.41	20.24	22.08	23.91	25.74	27.58	29.41	31.24	33.08	25.1
57.1-59.0	67.0- 69.5	2.19	3.90	5.68	7.48	9.30	11.13	12.97	14.80	16.64	18.48	20.32	22.17	24.01	25.85	27.69	29.54	31.38	33.22	25.2
59.1-61.0	69.7- 72.2	2.19	3.90	5.68	7.50	9.33	11.16	13.01	14.85	16.70	18.55	20.40	22.25	24.10	25.95	27.80	29.65	31.50	33.36	25.3
61.1-63.0	72.4- 75.0	2.19	3.90	5.69	7.51	9.35	11.19	13.04	14.90	16.75	18.61	20.47	22.33	24.18	26.04	27.90	29.76	31.62	33.48	25.4
63.1-65.0	75.1- 77.7	2.18	3.90	5.70	7.52	9.37	11.22	13.08	14.94	16.80	18.67	20.53	22.40	24.26	26.13	27.99	29.86	31.72	33.59	25.5
65.1-67.0	77.9- 80.5	2.18	3.90	5.70	7.53	9.38	11.24	13.11	14.98	16.84	18.72	20.59	22.46	24.33	26.20	28.08	29.95	31.82	33.69	25.6
67.1-69.0	80.6- 83.3	2.17	3.90	5.70	7.54	9.40	11.26	13.13	15.01	16.88	18.76	20.64	22.52	24.40	26.27	28.15	30.03	31.91	33.79	25.6
69.1-71.0	83.4- 86.1	2.17	3.90	5.70	7.55	9.41	11.28	13.16	15.04	16.92	18.80	20.69	22.57	24.46	26.34	28.22	30.11	31.99	33.88	25.7
71.1-73.0	86.2- 88.9	2.16	3.89	5.70	7.55	9.42	11.30	13.18	15.06	16.95	18.84	20.73	22.62	24.51	26.40	28.29	30.18	32.07	33.96	25.7
73.1-75.0	89.1- 91.8	2.16	3.89	5.70	7.56	9.43	11.31	13.20	15.09	16.98	18.88	20.77	22.67	24.56	26.46	28.35	30.25	32.14	34.04	25.8
75.1-77.0	92.0- 94.7	2.15	3.88	5.70	7.56	9.43	11.32	13.21	15.11	17.01	18.91	20.81	22.71	24.61	26.51	28.41	30.31	32.21	34.11	25.8
77.1-79.0	94.9- 97.6	2.15	3.88	5.70	7.56	9.44	11.33	13.23	15.13	17.03	18.94	20.84	22.75	24.65	26.56	28.46	30.36	32.27	34.17	25.8
79.1-81.0	97.8-100.6	2.14	3.87	5.69	7.56	9.44	11.34	13.24	15.15	17.06	18.96	20.87	22.78	24.69	26.60	28.51	30.42	32.32	34.23	25.9

Table 38. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.4- 16.4	0.30	0.48	0.63	0.76	0.88	0.99	1.10	1.21	1.32	1.43	1.54	1.65	1.76	1.86	1.97	2.08	2.19	2.30	12.5
15.1-17.0	16.5- 18.6	0.79	1.39	2.01	2.63	3.26	3.89	4.52	5.15	5.78	6.42	7.05	7.69	8.32	8.96	9.60	10.23	10.87	11.51	14.0
17.1-19.0	18.7- 20.8	1.10	1.94	2.81	3.68	4.56	5.45	6.34	7.23	8.12	9.02	9.91	10.81	11.70	12.60	13.49	14.39	15.29	16.18	15.3
19.1-21.0	20.9- 23.0	1.32	2.32	3.34	4.38	5.43	6.48	7.54	8.59	9.65	10.71	11.77	12.84	13.90	14.96	16.02	17.09	18.15	19.21	16.5
21.1-23.0	23.1- 25.2	1.48	2.59	3.73	4.89	6.06	7.23	8.41	9.59	10.77	11.95	13.13	14.31	15.50	16.68	17.87	19.05	20.24	21.42	17.6
23.1-25.0	25.3- 27.4	1.60	2.80	4.03	5.28	6.54	7.81	9.08	10.35	11.63	12.90	14.18	15.45	16.73	18.01	19.29	20.57	21.85	23.13	18.6
25.1-27.0	27.6- 29.7	1.69	2.96	4.27	5.59	6.93	8.27	9.61	10.96	12.31	13.66	15.01	16.37	17.72	19.08	20.43	21.79	23.14	24.50	19.5
27.1-29.0	29.8- 32.0	1.77	3.09	4.46	5.84	7.24	8.64	10.05	11.46	12.87	14.29	15.70	17.12	18.53	19.95	21.37	22.78	24.20	25.62	20.2
29.1-31.0	32.1- 34.4	1.82	3.20	4.61	6.05	7.50	8.95	10.41	11.88	13.34	14.81	16.27	17.74	19.21	20.68	22.15	23.62	25.09	26.56	20.9
31.1-33.0	34.5- 36.7	1.87	3.28	4.74	6.22	7.72	9.21	10.72	12.23	13.73	15.25	16.76	18.27	19.78	21.30	22.81	24.33	25.85	27.36	21.5
33.1-35.0	36.8- 39.1	1.91	3.36	4.85	6.37	7.90	9.44	10.98	12.52	14.07	15.62	17.17	18.73	20.28	21.83	23.39	24.94	26.49	28.05	22.1
35.1-37.0	39.2- 41.5	1.94	3.42	4.94	6.49	8.06	9.63	11.20	12.78	14.36	15.95	17.53	19.12	20.71	22.29	23.88	25.47	27.06	28.65	22.6
37.1-39.0	41.6- 43.9	1.97	3.47	5.02	6.60	8.19	9.79	11.40	13.01	14.62	16.23	17.85	19.46	21.08	22.70	24.31	25.93	27.55	29.17	23.0
39.1-41.0	44.0- 46.4	1.99	3.51	5.09	6.69	8.31	9.94	11.57	13.20	14.84	16.48	18.12	19.76	21.41	23.05	24.70	26.34	27.99	29.63	23.4
41.1-43.0	46.5- 48.8	2.01	3.55	5.15	6.77	8.41	10.06	11.72	13.38	15.04	16.70	18.37	20.03	21.70	23.37	25.03	26.70	28.37	30.04	23.7
43.1-45.0	49.0- 51.3	2.02	3.58	5.20	6.84	8.50	10.17	11.85	13.53	15.21	16.90	18.58	20.27	21.96	23.65	25.33	27.02	28.71	30.41	24.0
45.1-47.0	51.5- 53.9	2.03	3.60	5.24	6.90	8.58	10.27	11.97	13.66	15.37	17.07	18.78	20.48	22.19	23.90	25.60	27.31	29.02	30.73	24.2
47.1-49.0	54.0- 56.4	2.04	3.63	5.28	6.96	8.65	10.36	12.07	13.79	15.50	17.23	18.95	20.67	22.40	24.12	25.85	27.57	29.30	31.03	24.4
49.1-51.0	56.6- 59.0	2.05	3.64	5.31	7.00	8.71	10.43	12.16	13.89	15.63	17.37	19.10	20.84	22.58	24.32	26.07	27.81	29.55	31.29	24.6
51.1-53.0	59.1- 61.6	2.05	3.66	5.33	7.04	8.77	10.50	12.25	13.99	15.74	17.49	19.24	21.00	22.75	24.51	26.26	28.02	29.78	31.53	24.8
53.1-55.0	61.7- 64.2	2.06	3.67	5.36	7.08	8.82	10.57	12.32	14.08	15.84	17.61	19.37	21.14	22.91	24.68	26.44	28.21	29.98	31.75	25.0
55.1-57.0	64.4- 66.9	2.06	3.68	5.38	7.11	8.86	10.62	12.39	14.16	15.93	17.71	19.49	21.27	23.05	24.83	26.61	28.39	30.17	31.95	25.1
57.1-59.0	67.0- 69.5	2.06	3.69	5.40	7.14	8.90	10.67	12.45	14.23	16.02	17.80	19.59	21.38	23.17	24.97	26.76	28.55	30.34	32.14	25.2
59.1-61.0	69.7- 72.2	2.06	3.70	5.41	7.16	8.93	10.71	12.50	14.29	16.09	17.89	19.69	21.49	23.29	25.09	26.90	28.70	30.50	32.31	25.3
61.1-63.0	72.4- 75.0	2.06	3.70	5.42	7.18	8.96	10.75	12.55	14.35	16.16	17.97	19.78	21.59	23.40	25.21	27.02	28.84	30.65	32.46	25.4
63.1-65.0	75.1- 77.7	2.06	3.70	5.43	7.20	8.99	10.79	12.60	14.41	16.22	18.04	19.86	21.68	23.50	25.32	27.14	28.96	30.78	32.60	25.5
65.1-67.0	77.9- 80.5	2.06	3.71	5.44	7.22	9.01	10.82	12.64	14.46	16.28	18.10	19.93	21.76	23.59	25.42	27.25	29.08	30.91	32.74	25.6
67.1-69.0	80.6- 83.3	2.05	3.71	5.45	7.23	9.03	10.85	12.67	14.50	16.33	18.16	20.00	21.83	23.67	25.51	27.34	29.18	31.02	32.86	25.6
69.1-71.0	83.4- 86.1	2.05	3.71	5.45	7.24	9.05	10.87	12.70	14.54	16.38	18.22	20.06	21.90	23.75	25.59	27.44	29.28	31.13	32.97	25.7
71.1-73.0	86.2- 88.9	2.05	3.71	5.46	7.25	9.07	10.90	12.73	14.58	16.42	18.27	20.12	21.97	23.82	25.67	27.52	29.37	31.22	33.08	25.7
73.1-75.0	89.1- 91.8	2.04	3.70	5.46	7.26	9.08	10.92	12.76	14.61	16.46	18.31	20.17	22.03	23.88	25.74	27.60	29.46	31.32	33.17	25.8
75.1-77.0	92.0- 94.7	2.04	3.70	5.46	7.26	9.09	10.93	12.78	14.64	16.50	18.36	20.22	22.08	23.94	25.81	27.67	29.54	31.40	33.27	25.8
77.1-79.0	94.9- 97.6	2.03	3.70	5.46	7.27	9.10	10.95	12.81	14.67	16.53	18.40	20.26	22.13	24.00	25.87	27.74	29.61	31.48	33.35	25.8
79.1-81.0	97.8-100.6	2.03	3.69	5.46	7.27	9.11	10.96	12.82	14.69	16.56	18.43	20.30	22.18	24.05	25.93	27.80	29.68	31.55	33.43	25.9

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 39. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.5- 18.6	0.25	0.39	0.49	0.57	0.64	0.71	0.78	0.86	0.93	1.00	1.08	1.15	1.23	1.31	1.38	1.46	1.54	1.62	14.0
17.1-19.0	18.7- 20.8	0.67	1.18	1.70	2.23	2.75	3.28	3.81	4.34	4.87	5.40	5.93	6.46	6.99	7.52	8.06	8.59	9.12	9.65	15.3
19.1-21.0	20.9- 23.0	0.96	1.71	2.47	3.26	4.04	4.84	5.64	6.44	7.24	8.04	8.84	9.65	10.45	11.26	12.06	12.87	13.67	14.48	16.5
21.1-23.0	23.1- 25.2	1.17	2.07	3.00	3.95	4.91	5.87	6.84	7.81	8.79	9.76	10.74	11.71	12.69	13.67	14.64	15.62	16.60	17.58	17.6
23.1-25.0	25.3- 27.4	1.32	2.34	3.39	4.47	5.55	6.64	7.73	8.83	9.92	11.02	12.12	13.22	14.33	15.43	16.53	17.64	18.74	19.84	18.6
25.1-27.0	27.6- 29.7	1.44	2.55	3.70	4.86	6.04	7.23	8.42	9.61	10.80	12.00	13.20	14.40	15.60	16.80	18.00	19.20	20.40	21.60	19.5
27.1-29.0	29.8- 32.0	1.53	2.71	3.94	5.18	6.44	7.70	8.97	10.24	11.51	12.79	14.07	15.34	16.62	17.90	19.18	20.46	21.74	23.02	20.2
29.1-31.0	32.1- 34.4	1.61	2.85	4.13	5.44	6.76	8.09	9.42	10.76	12.10	13.44	14.78	16.12	17.47	18.81	20.16	21.50	22.85	24.20	20.9
31.1-33.0	34.5- 36.7	1.67	2.96	4.29	5.66	7.03	8.41	9.80	11.19	12.59	13.98	15.38	16.78	18.18	19.58	20.98	22.38	23.78	25.19	21.5
33.1-35.0	36.8- 39.1	1.72	3.05	4.43	5.84	7.26	8.69	10.12	11.56	13.00	14.45	15.89	17.34	18.79	20.23	21.68	23.13	24.58	26.03	22.1
35.1-37.0	39.2- 41.5	1.76	3.13	4.55	5.99	7.45	8.92	10.40	11.88	13.36	14.85	16.33	17.82	19.31	20.80	22.29	23.78	25.27	26.76	22.6
37.1-39.0	41.6- 43.9	1.80	3.19	4.64	6.12	7.62	9.13	10.64	12.15	13.67	15.19	16.72	18.24	19.77	21.29	22.82	24.35	25.88	27.40	23.0
39.1-41.0	44.0- 46.4	1.82	3.25	4.73	6.24	7.77	9.30	10.85	12.39	13.95	15.50	17.05	18.61	20.17	21.73	23.29	24.85	26.41	27.97	23.4
41.1-43.0	46.5- 48.8	1.85	3.29	4.80	6.34	7.89	9.46	11.03	12.61	14.19	15.77	17.35	18.94	20.52	22.11	23.70	25.29	26.87	28.46	23.7
43.1-45.0	49.0- 51.3	1.87	3.33	4.86	6.43	8.01	9.60	11.19	12.79	14.40	16.01	17.62	19.23	20.84	22.45	24.06	25.68	27.29	28.91	24.0
45.1-47.0	51.5- 53.9	1.88	3.37	4.92	6.50	8.10	9.72	11.34	12.96	14.59	16.22	17.85	19.49	21.12	22.76	24.39	26.03	27.67	29.31	24.2
47.1-49.0	54.0- 56.4	1.90	3.40	4.97	6.57	8.19	9.82	11.46	13.11	14.76	16.41	18.06	19.72	21.37	23.03	24.69	26.35	28.01	29.67	24.4
49.1-51.0	56.6- 59.0	1.91	3.42	5.01	6.63	8.27	9.92	11.58	13.24	14.91	16.58	18.25	19.93	21.60	23.28	24.96	26.63	28.31	29.99	24.6
51.1-53.0	59.1- 61.6	1.92	3.44	5.04	6.68	8.34	10.00	11.68	13.36	15.05	16.74	18.42	20.12	21.81	23.50	25.20	26.89	28.59	30.28	24.8
53.1-55.0	61.7- 64.2	1.92	3.46	5.08	6.73	8.40	10.08	11.77	13.47	15.17	16.88	18.58	20.29	22.00	23.71	25.42	27.13	28.84	30.55	25.0
55.1-57.0	64.4- 66.9	1.93	3.48	5.10	6.77	8.45	10.15	11.86	13.57	15.28	17.00	18.72	20.44	22.17	23.89	25.62	27.34	29.07	30.80	25.1
57.1-59.0	67.0- 69.5	1.93	3.49	5.13	6.80	8.50	10.21	11.93	13.66	15.39	17.12	18.85	20.59	22.32	24.06	25.80	27.54	29.28	31.02	25.2
59.1-61.0	69.7- 72.2	1.94	3.50	5.15	6.83	8.54	10.27	12.00	13.74	15.48	17.22	18.97	20.72	22.47	24.22	25.97	27.72	29.47	31.23	25.3
61.1-63.0	72.4- 75.0	1.94	3.51	5.17	6.86	8.58	10.32	12.06	13.81	15.56	17.32	19.08	20.84	22.60	24.36	26.12	27.89	29.65	31.42	25.4
63.1-65.0	75.1- 77.7	1.94	3.52	5.18	6.89	8.62	10.36	12.12	13.88	15.64	17.41	19.18	20.95	22.72	24.49	26.27	28.04	29.82	31.59	25.5
65.1-67.0	77.9- 80.5	1.94	3.52	5.19	6.91	8.65	10.40	12.17	13.94	15.71	17.49	19.27	21.05	22.83	24.61	26.40	28.18	29.97	31.75	25.6
67.1-69.0	80.6- 83.3	1.94	3.53	5.21	6.93	8.68	10.44	12.21	13.99	15.78	17.56	19.35	21.14	22.93	24.73	26.52	28.31	30.11	31.90	25.6
69.1-71.0	83.4- 86.1	1.94	3.53	5.21	6.95	8.70	10.48	12.26	14.04	15.84	17.63	19.43	21.23	23.03	24.83	26.63	28.44	30.24	32.04	25.7
71.1-73.0	86.2- 88.9	1.94	3.53	5.22	6.96	8.73	10.51	12.29	14.09	15.89	17.70	19.50	21.31	23.12	24.93	26.74	28.55	30.36	32.17	25.7
73.1-75.0	89.1- 91.8	1.94	3.53	5.23	6.97	8.74	10.53	12.33	14.13	15.94	17.75	19.57	21.38	23.20	25.02	26.83	28.65	30.47	32.29	25.8
75.1-77.0	92.0- 94.7	1.93	3.53	5.23	6.98	8.76	10.56	12.36	14.17	15.99	17.81	19.63	21.45	23.27	25.10	26.92	28.75	30.58	32.40	25.8
77.1-79.0	94.9- 97.6	1.93	3.53	5.24	6.99	8.78	10.58	12.39	14.21	16.03	17.86	19.68	21.51	23.34	25.18	27.01	28.84	30.67	32.51	25.8
79.1-81.0	97.8-100.6	1.93	3.53	5.24	7.00	8.79	10.60	12.42	14.24	16.07	17.90	19.74	21.57	23.41	25.25	27.09	28.93	30.77	32.61	25.9

10.0 NUMBER OF TREES PER CUBIC METRE OF MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 7, 8, 10

Table 40. Trees/m³ of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	6.2- 8.1	349.646	204.950	144.681	111.703	90.921	76.634	66.212	58.275	52.031	46.990	42.837	39.355	36.395	33.847	31.631	29.687	27.967	26.434	5.5
7.1- 9.0	8.2- 10.1	149.080	88.913	63.244	49.040	40.029	33.806	29.252	25.775	23.035	20.819	18.991	17.457	16.151	15.026	14.048	13.188	12.427	11.749	7.3
9.1-11.0	10.2- 12.2	92.753	55.286	39.307	30.470	24.865	20.996	18.165	16.004	14.301	12.924	11.789	10.836	10.024	9.326	8.718	8.184	7.712	7.291	9.1
11.1-13.0	12.3- 14.2	65.333	38.794	27.530	21.315	17.380	14.667	12.684	11.171	9.979	9.016	8.222	7.556	6.989	6.501	6.077	5.704	5.374	5.080	10.8
13.1-15.0	14.3- 16.3	49.216	29.093	20.599	15.926	12.974	10.941	9.456	8.325	7.434	6.715	6.122	5.625	5.202	4.838	4.521	4.244	3.998	3.779	12.4
15.1-17.0	16.4- 18.5	38.723	22.788	16.098	12.429	10.115	8.523	7.363	6.479	5.783	5.222	4.760	4.372	4.043	3.759	3.513	3.297	3.105	2.935	13.8
17.1-19.0	18.6- 20.6	31.424	18.414	12.980	10.008	8.137	6.852	5.915	5.203	4.643	4.191	3.819	3.507	3.242	3.015	2.816	2.643	2.489	2.352	15.1
19.1-21.0	20.7- 22.8	26.100	15.236	10.718	8.253	6.704	5.641	4.868	4.280	3.817	3.445	3.138	2.882	2.663	2.476	2.313	2.170	2.043	1.931	16.3
21.1-23.0	22.9- 25.0	22.075	12.842	9.018	6.935	5.629	4.733	4.082	3.587	3.199	2.886	2.628	2.413	2.230	2.072	1.936	1.816	1.710	1.615	17.4
23.1-25.0	25.1- 27.3	18.945	10.987	7.703	5.918	4.799	4.033	3.477	3.054	2.722	2.455	2.236	2.052	1.896	1.762	1.645	1.543	1.453	1.373	18.4
25.1-27.0	27.4- 29.5	16.454	9.518	6.663	5.114	4.144	3.481	2.999	2.633	2.347	2.116	1.926	1.768	1.633	1.517	1.417	1.328	1.251	1.181	19.2
27.1-29.0	29.7- 31.8	14.434	8.331	5.825	4.467	3.617	3.037	2.615	2.296	2.045	1.843	1.678	1.539	1.422	1.321	1.233	1.156	1.088	1.028	20.0
29.1-31.0	32.0- 34.2	12.768	7.356	5.138	3.937	3.186	2.674	2.302	2.020	1.799	1.621	1.475	1.353	1.249	1.160	1.083	1.016	0.956	0.903	20.7
31.1-33.0	34.3- 36.5	11.377	6.545	4.568	3.498	2.829	2.373	2.042	1.791	1.595	1.437	1.307	1.199	1.107	1.028	0.959	0.899	0.847	0.799	21.3
33.1-35.0	36.6- 38.9	10.201	5.862	4.089	3.129	2.530	2.121	1.824	1.600	1.424	1.283	1.167	1.070	0.988	0.917	0.856	0.802	0.755	0.713	21.8
35.1-37.0	39.0- 41.3	9.196	5.281	3.681	2.816	2.276	1.907	1.640	1.438	1.280	1.152	1.048	0.961	0.887	0.823	0.768	0.720	0.678	0.640	22.3
37.1-39.0	41.4- 43.8	8.330	4.781	3.332	2.548	2.058	1.724	1.482	1.299	1.156	1.041	0.946	0.868	0.801	0.743	0.693	0.650	0.611	0.577	22.7
39.1-41.0	43.9- 46.2	7.578	4.349	3.030	2.316	1.871	1.567	1.347	1.180	1.050	0.945	0.859	0.787	0.726	0.674	0.629	0.589	0.555	0.523	23.0
41.1-43.0	46.4- 48.7	6.919	3.971	2.767	2.115	1.708	1.430	1.229	1.076	0.957	0.862	0.783	0.718	0.662	0.615	0.573	0.537	0.505	0.477	23.4
43.1-45.0	48.9- 51.3	6.339	3.640	2.537	1.939	1.565	1.310	1.126	0.986	0.877	0.789	0.717	0.657	0.606	0.562	0.524	0.491	0.462	0.436	23.6
45.1-47.0	51.4- 53.8	5.825	3.347	2.333	1.783	1.439	1.205	1.035	0.906	0.806	0.725	0.659	0.603	0.557	0.516	0.482	0.451	0.424	0.400	23.9
47.1-49.0	53.9- 56.4	5.368	3.087	2.153	1.645	1.328	1.111	0.954	0.836	0.743	0.668	0.607	0.556	0.513	0.476	0.444	0.416	0.391	0.369	24.1
49.1-51.0	56.5- 59.0	4.958	2.855	1.992	1.523	1.229	1.028	0.883	0.773	0.687	0.618	0.561	0.514	0.474	0.440	0.410	0.384	0.361	0.341	24.3
51.1-53.0	59.1- 61.6	4.590	2.647	1.848	1.413	1.140	0.954	0.819	0.717	0.637	0.573	0.521	0.477	0.440	0.408	0.380	0.356	0.335	0.316	24.5
53.1-55.0	61.8- 64.3	4.259	2.459	1.718	1.314	1.061	0.888	0.762	0.667	0.593	0.533	0.484	0.443	0.409	0.379	0.353	0.331	0.311	0.294	24.6
55.1-57.0	64.4- 67.0	3.958	2.290	1.602	1.225	0.989	0.828	0.711	0.622	0.553	0.497	0.451	0.413	0.381	0.353	0.329	0.308	0.290	0.273	24.7
57.1-59.0	67.1- 69.7	3.685	2.136	1.496	1.145	0.924	0.773	0.664	0.581	0.516	0.464	0.421	0.386	0.356	0.330	0.307	0.288	0.271	0.255	24.9
59.1-61.0	69.9- 72.5	3.437	1.996	1.399	1.072	0.865	0.724	0.622	0.544	0.483	0.434	0.394	0.361	0.333	0.309	0.288	0.269	0.253	0.239	24.9
61.1-63.0	72.6- 75.3	3.210	1.869	1.311	1.005	0.812	0.679	0.583	0.510	0.453	0.408	0.370	0.339	0.312	0.289	0.270	0.253	0.237	0.224	25.0
63.1-65.0	75.4- 78.1	3.002	1.752	1.231	0.944	0.763	0.638	0.548	0.480	0.426	0.383	0.348	0.318	0.293	0.272	0.253	0.237	0.223	0.210	25.1
65.1-67.0	78.2- 80.9	2.811	1.644	1.157	0.888	0.718	0.601	0.516	0.451	0.401	0.360	0.327	0.299	0.276	0.256	0.238	0.223	0.210	0.198	25.2
67.1-69.0	81.0- 83.8	2.635	1.546	1.090	0.837	0.677	0.567	0.486	0.426	0.378	0.340	0.308	0.282	0.260	0.241	0.225	0.210	0.198	0.186	25.2
69.1-71.0	83.9- 86.7	2.473	1.455	1.027	0.790	0.639	0.535	0.459	0.402	0.357	0.321	0.291	0.267	0.246	0.228	0.212	0.199	0.187	0.176	25.3
71.1-73.0	86.8- 89.6	2.323	1.371	0.970	0.746	0.604	0.506	0.434	0.380	0.338	0.303	0.275	0.252	0.232	0.215	0.201	0.188	0.176	0.166	25.3
73.1-75.0	89.7- 92.5	2.185	1.293	0.916	0.705	0.571	0.479	0.411	0.360	0.320	0.287	0.261	0.239	0.220	0.204	0.190	0.178	0.167	0.157	25.4
75.1-77.0	92.7- 95.5	2.056	1.221	0.867	0.668	0.541	0.454	0.390	0.341	0.303	0.272	0.247	0.226	0.208	0.193	0.180	0.168	0.158	0.149	25.4
77.1-79.0	95.6- 98.5	1.937	1.154	0.821	0.633	0.513	0.430	0.370	0.324	0.288	0.258	0.235	0.215	0.198	0.183	0.171	0.160	0.150	0.142	25.4
79.1-81.0	98.7-101.5	1.826	1.092	0.778	0.601	0.487	0.409	0.351	0.308	0.273	0.246	0.223	0.204	0.188	0.174	0.162	0.152	0.143	0.134	25.5

Table 41. Trees/m^3 of merchantable volume at 0.30 m stump height and 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.2- 10.1	280.386	160.796	112.471	86.379	70.064	58.906	50.798	44.642	39.809	35.917	32.714	30.033	27.756	25.799	24.098	22.607	21.289	20.115	7.3
9.1-11.0	10.2- 12.2	115.014	67.269	47.407	36.559	29.732	25.045	21.628	19.029	16.985	15.336	13.977	12.839	11.872	11.039	10.315	9.680	9.118	8.618	9.1
11.1-13.0	12.3- 14.2	73.163	42.950	30.315	23.397	19.038	16.042	13.857	12.194	10.886	9.830	8.960	8.231	7.611	7.078	6.614	6.207	5.847	5.526	10.8
13.1-15.0	14.3- 16.3	52.802	30.967	21.842	16.850	13.706	11.546	9.971	8.773	7.830	7.070	6.444	5.919	5.473	5.089	4.755	4.462	4.203	3.972	12.4
15.1-17.0	16.4- 18.5	40.627	23.767	16.741	12.903	10.489	8.831	7.624	6.706	5.984	5.402	4.922	4.521	4.179	3.886	3.630	3.406	3.208	3.032	13.8
17.1-19.0	18.6- 20.6	32.538	18.978	13.347	10.277	8.348	7.025	6.062	5.330	4.754	4.291	3.909	3.589	3.318	3.084	2.881	2.703	2.546	2.406	15.1
19.1-21.0	20.7- 22.8	26.799	15.585	10.943	8.417	6.832	5.746	4.956	4.355	3.884	3.505	3.192	2.930	2.708	2.517	2.351	2.206	2.077	1.963	16.3
21.1-23.0	22.9- 25.0	22.537	13.069	9.163	7.041	5.710	4.800	4.138	3.636	3.241	2.924	2.662	2.444	2.258	2.098	1.960	1.838	1.731	1.635	17.4
23.1-25.0	25.1- 27.3	19.263	11.143	7.801	5.989	4.854	4.077	3.514	3.086	2.750	2.480	2.258	2.072	1.914	1.779	1.661	1.558	1.467	1.386	18.4
25.1-27.0	27.4- 29.5	16.680	9.627	6.732	5.163	4.182	3.511	3.024	2.655	2.366	2.133	1.941	1.781	1.645	1.529	1.427	1.338	1.260	1.190	19.2
27.1-29.0	29.7- 31.8	14.599	8.410	5.875	4.502	3.644	3.058	2.633	2.311	2.058	1.855	1.688	1.549	1.431	1.329	1.241	1.163	1.095	1.034	20.0
29.1-31.0	32.0- 34.2	12.893	7.415	5.175	3.963	3.206	2.689	2.315	2.031	1.808	1.630	1.483	1.360	1.256	1.166	1.089	1.021	0.961	0.907	20.7
31.1-33.0	34.3- 36.5	11.472	6.590	4.596	3.517	2.844	2.385	2.052	1.800	1.602	1.443	1.313	1.204	1.112	1.032	0.963	0.903	0.850	0.803	21.3
33.1-35.0	36.6- 38.9	10.275	5.897	4.110	3.144	2.541	2.130	1.832	1.606	1.430	1.288	1.171	1.074	0.991	0.920	0.859	0.805	0.758	0.715	21.8
35.1-37.0	39.0- 41.3	9.254	5.308	3.698	2.828	2.285	1.914	1.646	1.443	1.284	1.156	1.051	0.964	0.889	0.826	0.771	0.722	0.679	0.642	22.3
37.1-39.0	41.4- 43.8	8.376	4.803	3.345	2.557	2.065	1.730	1.487	1.303	1.159	1.044	0.949	0.870	0.803	0.745	0.695	0.652	0.613	0.579	22.7
39.1-41.0	43.9- 46.2	7.615	4.366	3.041	2.324	1.876	1.571	1.350	1.183	1.052	0.947	0.861	0.789	0.728	0.676	0.630	0.591	0.556	0.525	23.0
41.1-43.0	46.4- 48.7	6.949	3.986	2.776	2.121	1.712	1.433	1.232	1.079	0.959	0.863	0.785	0.719	0.663	0.616	0.574	0.538	0.506	0.478	23.4
43.1-45.0	48.9- 51.3	6.364	3.652	2.544	1.944	1.569	1.313	1.128	0.988	0.878	0.790	0.718	0.658	0.607	0.563	0.525	0.492	0.463	0.437	23.6
45.1-47.0	51.4- 53.8	5.846	3.357	2.339	1.787	1.442	1.207	1.037	0.908	0.807	0.726	0.660	0.604	0.557	0.517	0.482	0.452	0.425	0.401	23.9
47.1-49.0	53.9- 56.4	5.385	3.095	2.158	1.649	1.331	1.113	0.956	0.837	0.744	0.669	0.608	0.557	0.514	0.477	0.444	0.416	0.391	0.369	24.1
49.1-51.0	56.5- 59.0	4.973	2.862	1.996	1.526	1.231	1.030	0.884	0.774	0.688	0.619	0.562	0.515	0.475	0.441	0.411	0.385	0.362	0.341	24.3
51.1-53.0	59.1- 61.6	4.603	2.652	1.852	1.415	1.142	0.956	0.820	0.718	0.638	0.574	0.521	0.477	0.440	0.408	0.381	0.357	0.335	0.316	24.5
53.1-55.0	61.8- 64.3	4.269	2.464	1.721	1.316	1.062	0.889	0.763	0.668	0.593	0.534	0.485	0.444	0.409	0.379	0.354	0.331	0.311	0.294	24.6
55.1-57.0	64.4- 67.0	3.967	2.294	1.604	1.227	0.991	0.829	0.711	0.623	0.553	0.497	0.452	0.414	0.381	0.354	0.330	0.309	0.290	0.274	24.7
57.1-59.0	67.1- 69.7	3.693	2.140	1.498	1.146	0.926	0.774	0.665	0.582	0.517	0.465	0.422	0.386	0.356	0.330	0.308	0.288	0.271	0.256	24.9
59.1-61.0	69.9- 72.5	3.443	1.999	1.401	1.073	0.866	0.725	0.622	0.545	0.484	0.435	0.395	0.361	0.333	0.309	0.288	0.270	0.253	0.239	24.9
61.1-63.0	72.6- 75.3	3.215	1.871	1.313	1.006	0.813	0.680	0.584	0.511	0.454	0.408	0.370	0.339	0.312	0.290	0.270	0.253	0.238	0.224	25.0
63.1-65.0	75.4- 78.1	3.006	1.754	1.233	0.945	0.764	0.639	0.549	0.480	0.426	0.383	0.348	0.318	0.293	0.272	0.254	0.237	0.223	0.210	25.1
65.1-67.0	78.2- 80.9	2.815	1.647	1.159	0.889	0.719	0.601	0.516	0.452	0.401	0.361	0.327	0.300	0.276	0.256	0.239	0.223	0.210	0.198	25.2
67.1-69.0	81.0- 83.8	2.638	1.548	1.091	0.838	0.677	0.567	0.487	0.426	0.378	0.340	0.309	0.282	0.260	0.241	0.225	0.210	0.198	0.187	25.2
69.1-71.0	83.9- 86.7	2.476	1.456	1.028	0.790	0.639	0.535	0.460	0.402	0.357	0.321	0.291	0.267	0.246	0.228	0.212	0.199	0.187	0.176	25.3
71.1-73.0	86.8- 89.6	2.326	1.372	0.970	0.747	0.604	0.506	0.435	0.380	0.338	0.304	0.276	0.252	0.232	0.215	0.201	0.188	0.176	0.166	25.3
73.1-75.0	89.7- 92.5	2.187	1.294	0.917	0.706	0.572	0.479	0.411	0.360	0.320	0.287	0.261	0.239	0.220	0.204	0.190	0.178	0.167	0.157	25.4
75.1-77.0	92.7- 95.5	2.058	1.222	0.867	0.669	0.542	0.454	0.390	0.341	0.303	0.272	0.247	0.226	0.208	0.193	0.180	0.168	0.158	0.149	25.4
77.1-79.0	95.6- 98.5	1.939	1.155	0.821	0.634	0.514	0.431	0.370	0.324	0.288	0.259	0.235	0.215	0.198	0.183	0.171	0.160	0.150	0.142	25.4
79.1-81.0	98.7-101.5	1.827	1.092	0.778	0.601	0.488	0.409	0.352	0.308	0.273	0.246	0.223	0.204	0.188	0.174	0.162	0.152	0.143	0.134	25.5

Table 42. Trees/m^3 of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.2	127.511	72.839	50.815	38.950	31.544	26.488	22.820	20.038	17.857	16.101	14.658	13.451	12.427	11.547	10.782	10.112	9.520	8.994	10.8
13.1-15.0	14.3- 16.3	69.223	39.761	27.765	21.288	17.243	14.482	12.478	10.958	9.767	8.808	8.020	7.360	6.800	6.319	5.902	5.535	5.212	4.924	12.4
15.1-17.0	16.4- 18.5	47.923	27.621	19.314	14.820	12.011	10.091	8.697	7.639	6.810	6.142	5.593	5.133	4.743	4.408	4.117	3.862	3.636	3.435	13.8
17.1-19.0	18.6- 20.6	36.402	20.996	14.684	11.268	9.131	7.671	6.611	5.807	5.176	4.668	4.251	3.901	3.605	3.350	3.129	2.934	2.763	2.610	15.1
19.1-21.0	20.7- 22.8	29.073	16.759	11.716	8.987	7.281	6.115	5.269	4.627	4.124	3.719	3.386	3.107	2.871	2.667	2.491	2.336	2.200	2.078	16.3
21.1-23.0	22.9- 25.0	23.975	13.805	9.644	7.393	5.987	5.027	4.330	3.802	3.387	3.054	2.780	2.551	2.357	2.190	2.045	1.917	1.805	1.705	17.4
23.1-25.0	25.1- 27.3	20.221	11.628	8.117	6.219	5.034	4.225	3.638	3.193	2.845	2.564	2.334	2.141	1.978	1.837	1.715	1.609	1.514	1.430	18.4
25.1-27.0	27.4- 29.5	17.345	9.962	6.948	5.320	4.304	3.611	3.108	2.728	2.429	2.189	1.992	1.828	1.688	1.568	1.464	1.372	1.292	1.220	19.2
27.1-29.0	29.7- 31.8	15.075	8.648	6.028	4.613	3.730	3.128	2.692	2.361	2.103	1.895	1.724	1.581	1.460	1.356	1.266	1.187	1.117	1.055	20.0
29.1-31.0	32.0- 34.2	13.243	7.590	5.286	4.043	3.268	2.740	2.357	2.067	1.840	1.658	1.508	1.383	1.277	1.186	1.107	1.037	0.976	0.922	20.7
31.1-33.0	34.3- 36.5	11.735	6.720	4.679	3.577	2.890	2.422	2.083	1.826	1.625	1.464	1.331	1.221	1.127	1.046	0.977	0.915	0.861	0.813	21.3
33.1-35.0	36.6- 38.9	10.476	5.996	4.173	3.189	2.576	2.158	1.855	1.626	1.447	1.303	1.185	1.086	1.003	0.931	0.869	0.814	0.766	0.723	21.8
35.1-37.0	39.0- 41.3	9.411	5.385	3.747	2.863	2.311	1.936	1.664	1.458	1.297	1.168	1.062	0.973	0.898	0.834	0.778	0.729	0.686	0.648	22.3
37.1-39.0	41.4- 43.8	8.500	4.864	3.384	2.585	2.086	1.747	1.501	1.315	1.170	1.053	0.957	0.877	0.809	0.751	0.701	0.657	0.618	0.583	22.7
39.1-41.0	43.9- 46.2	7.714	4.415	3.071	2.346	1.893	1.584	1.361	1.192	1.060	0.954	0.867	0.795	0.733	0.681	0.635	0.595	0.560	0.528	23.0
41.1-43.0	46.4- 48.7	7.029	4.025	2.801	2.139	1.725	1.444	1.240	1.086	0.966	0.869	0.790	0.724	0.668	0.620	0.578	0.541	0.509	0.481	23.4
43.1-45.0	48.9- 51.3	6.429	3.684	2.564	1.958	1.579	1.322	1.135	0.994	0.883	0.795	0.722	0.662	0.610	0.566	0.528	0.495	0.465	0.439	23.6
45.1-47.0	51.4- 53.8	5.899	3.383	2.356	1.799	1.451	1.214	1.042	0.913	0.811	0.730	0.663	0.607	0.560	0.520	0.485	0.454	0.427	0.403	23.9
47.1-49.0	53.9- 56.4	5.429	3.117	2.171	1.659	1.338	1.119	0.961	0.841	0.748	0.672	0.611	0.559	0.516	0.479	0.446	0.418	0.393	0.371	24.1
49.1-51.0	56.5- 59.0	5.009	2.880	2.008	1.534	1.237	1.035	0.888	0.778	0.691	0.621	0.564	0.517	0.477	0.442	0.412	0.386	0.363	0.343	24.3
51.1-53.0	59.1- 61.6	4.633	2.668	1.861	1.422	1.147	0.960	0.824	0.721	0.641	0.576	0.523	0.479	0.442	0.410	0.382	0.358	0.336	0.317	24.5
53.1-55.0	61.8- 64.3	4.295	2.477	1.730	1.322	1.067	0.892	0.766	0.670	0.595	0.535	0.486	0.445	0.410	0.381	0.355	0.332	0.312	0.295	24.6
55.1-57.0	64.4- 67.0	3.989	2.305	1.611	1.232	0.994	0.832	0.714	0.625	0.555	0.499	0.453	0.415	0.382	0.355	0.330	0.309	0.291	0.274	24.7
57.1-59.0	67.1- 69.7	3.711	2.149	1.504	1.151	0.929	0.777	0.667	0.583	0.518	0.466	0.423	0.387	0.357	0.331	0.309	0.289	0.272	0.256	24.9
59.1-61.0	69.9- 72.5	3.459	2.007	1.406	1.077	0.869	0.727	0.624	0.546	0.485	0.436	0.396	0.362	0.334	0.310	0.289	0.270	0.254	0.240	24.9
61.1-63.0	72.6- 75.3	3.229	1.878	1.317	1.009	0.815	0.682	0.585	0.512	0.455	0.409	0.371	0.340	0.313	0.290	0.271	0.253	0.238	0.225	25.0
63.1-65.0	75.4- 78.1	3.018	1.760	1.236	0.948	0.766	0.641	0.550	0.481	0.427	0.384	0.349	0.319	0.294	0.273	0.254	0.238	0.224	0.211	25.1
65.1-67.0	78.2- 80.9	2.825	1.652	1.162	0.891	0.720	0.603	0.518	0.453	0.402	0.361	0.328	0.300	0.277	0.257	0.239	0.224	0.210	0.198	25.2
67.1-69.0	81.0- 83.8	2.647	1.552	1.094	0.840	0.679	0.568	0.488	0.427	0.379	0.341	0.309	0.283	0.261	0.242	0.225	0.211	0.198	0.187	25.2
69.1-71.0	83.9- 86.7	2.483	1.460	1.031	0.792	0.641	0.536	0.461	0.403	0.358	0.322	0.292	0.267	0.246	0.228	0.213	0.199	0.187	0.176	25.3
71.1-73.0	86.8- 89.6	2.332	1.376	0.973	0.748	0.605	0.507	0.435	0.381	0.338	0.304	0.276	0.252	0.233	0.216	0.201	0.188	0.177	0.167	25.3
73.1-75.0	89.7- 92.5	2.193	1.297	0.919	0.708	0.573	0.480	0.412	0.361	0.320	0.288	0.261	0.239	0.220	0.204	0.190	0.178	0.167	0.158	25.4
75.1-77.0	92.7- 95.5	2.063	1.225	0.869	0.670	0.543	0.455	0.391	0.342	0.304	0.273	0.248	0.227	0.209	0.193	0.180	0.169	0.158	0.149	25.4
77.1-79.0	95.6- 98.5	1.943	1.157	0.823	0.635	0.515	0.431	0.371	0.324	0.288	0.259	0.235	0.215	0.198	0.184	0.171	0.160	0.150	0.142	25.4
79.1-81.0	98.7-101.5	1.831	1.095	0.780	0.602	0.489	0.410	0.352	0.308	0.274	0.246	0.223	0.204	0.188	0.174	0.162	0.152	0.143	0.135	25.5

Table 43. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.2	231.720	138.503	101.418	81.043	67.975	58.792	51.939	46.602	42.313	38.781	35.816	33.287	31.102	29.194	27.511	26.016	24.677	23.471	10.8
13.1-15.0	14.3- 16.3	83.718	47.769	33.264	25.459	20.595	17.280	14.877	13.056	11.630	10.483	9.541	8.753	8.085	7.511	7.013	6.576	6.190	5.847	12.4
15.1-17.0	16.4- 18.5	52.962	30.337	21.149	16.196	13.108	11.001	9.474	8.317	7.410	6.680	6.081	5.580	5.154	4.789	4.472	4.194	3.948	3.729	13.8
17.1-19.0	18.6- 20.6	38.769	22.255	15.527	11.896	9.631	8.084	6.963	6.113	5.447	4.911	4.470	4.102	3.790	3.521	3.288	3.083	2.903	2.742	15.1
19.1-21.0	20.7- 22.8	30.370	17.443	12.170	9.324	7.548	6.335	5.456	4.790	4.267	3.847	3.502	3.213	2.968	2.758	2.575	2.415	2.273	2.148	16.3
21.1-23.0	22.9- 25.0	24.758	14.214	9.914	7.593	6.145	5.157	4.440	3.897	3.472	3.129	2.848	2.613	2.414	2.242	2.094	1.963	1.848	1.746	17.4
23.1-25.0	25.1- 27.3	20.726	11.890	8.289	6.346	5.133	4.306	3.707	3.253	2.897	2.611	2.376	2.180	2.013	1.870	1.746	1.637	1.541	1.456	18.4
25.1-27.0	27.4- 29.5	17.687	10.138	7.063	5.405	4.370	3.665	3.154	2.767	2.464	2.220	2.020	1.853	1.711	1.589	1.484	1.391	1.309	1.237	19.2
27.1-29.0	29.7- 31.8	15.316	8.771	6.108	4.671	3.776	3.165	2.723	2.389	2.127	1.916	1.743	1.598	1.476	1.371	1.279	1.199	1.129	1.066	20.0
29.1-31.0	32.0- 34.2	13.417	7.678	5.344	4.085	3.301	2.766	2.379	2.086	1.857	1.673	1.521	1.395	1.288	1.196	1.116	1.046	0.985	0.930	20.7
31.1-33.0	34.3- 36.5	11.864	6.786	4.721	3.608	2.914	2.441	2.099	1.840	1.638	1.475	1.341	1.230	1.135	1.054	0.983	0.922	0.867	0.819	21.3
33.1-35.0	36.6- 38.9	10.574	6.046	4.205	3.212	2.594	2.172	1.867	1.637	1.456	1.311	1.192	1.093	1.009	0.936	0.874	0.819	0.770	0.727	21.8
35.1-37.0	39.0- 41.3	9.486	5.423	3.771	2.880	2.325	1.947	1.673	1.466	1.304	1.174	1.067	0.978	0.903	0.838	0.782	0.733	0.689	0.651	22.3
37.1-39.0	41.4- 43.8	8.559	4.894	3.403	2.598	2.097	1.755	1.508	1.321	1.175	1.058	0.961	0.881	0.813	0.755	0.704	0.660	0.620	0.586	22.7
39.1-41.0	43.9- 46.2	7.760	4.438	3.087	2.356	1.901	1.591	1.367	1.197	1.065	0.958	0.871	0.798	0.736	0.683	0.637	0.597	0.562	0.530	23.0
41.1-43.0	46.4- 48.7	7.066	4.044	2.813	2.147	1.732	1.449	1.245	1.090	0.969	0.872	0.792	0.726	0.670	0.622	0.580	0.543	0.511	0.482	23.4
43.1-45.0	48.9- 51.3	6.459	3.699	2.574	1.965	1.585	1.326	1.139	0.997	0.886	0.797	0.724	0.664	0.612	0.568	0.530	0.496	0.467	0.440	23.6
45.1-47.0	51.4- 53.8	5.924	3.396	2.364	1.805	1.456	1.218	1.045	0.915	0.813	0.732	0.665	0.609	0.562	0.521	0.486	0.455	0.428	0.404	23.9
47.1-49.0	53.9- 56.4	5.449	3.127	2.178	1.663	1.341	1.122	0.963	0.843	0.749	0.674	0.612	0.561	0.517	0.480	0.447	0.419	0.394	0.372	24.1
49.1-51.0	56.5- 59.0	5.026	2.888	2.013	1.538	1.240	1.037	0.890	0.779	0.692	0.623	0.566	0.518	0.478	0.443	0.413	0.387	0.364	0.343	24.3
51.1-53.0	59.1- 61.6	4.647	2.675	1.866	1.426	1.150	0.962	0.825	0.722	0.642	0.577	0.524	0.480	0.442	0.410	0.383	0.358	0.337	0.318	24.5
53.1-55.0	61.8- 64.3	4.306	2.483	1.734	1.325	1.069	0.894	0.767	0.671	0.596	0.536	0.487	0.446	0.411	0.381	0.355	0.333	0.313	0.295	24.6
55.1-57.0	64.4- 67.0	3.999	2.310	1.614	1.234	0.996	0.833	0.715	0.626	0.556	0.500	0.454	0.415	0.383	0.355	0.331	0.310	0.291	0.275	24.7
57.1-59.0	67.1- 69.7	3.720	2.153	1.507	1.153	0.930	0.778	0.668	0.584	0.519	0.467	0.424	0.388	0.357	0.331	0.309	0.289	0.272	0.256	24.9
59.1-61.0	69.9- 72.5	3.466	2.011	1.409	1.078	0.871	0.728	0.625	0.547	0.486	0.437	0.396	0.363	0.334	0.310	0.289	0.271	0.254	0.240	24.9
61.1-63.0	72.6- 75.3	3.235	1.881	1.320	1.011	0.816	0.683	0.586	0.513	0.455	0.409	0.372	0.340	0.313	0.291	0.271	0.254	0.238	0.225	25.0
63.1-65.0	75.4- 78.1	3.023	1.763	1.238	0.949	0.767	0.641	0.551	0.482	0.428	0.384	0.349	0.319	0.294	0.273	0.254	0.238	0.224	0.211	25.1
65.1-67.0	78.2- 80.9	2.829	1.654	1.164	0.893	0.721	0.604	0.518	0.453	0.403	0.362	0.328	0.301	0.277	0.257	0.239	0.224	0.210	0.198	25.2
67.1-69.0	81.0- 83.8	2.651	1.554	1.095	0.841	0.680	0.569	0.488	0.427	0.379	0.341	0.309	0.283	0.261	0.242	0.225	0.211	0.198	0.187	25.2
69.1-71.0	83.9- 86.7	2.487	1.462	1.032	0.793	0.641	0.537	0.461	0.403	0.358	0.322	0.292	0.267	0.246	0.228	0.213	0.199	0.187	0.176	25.3
71.1-73.0	86.8- 89.6	2.335	1.377	0.974	0.749	0.606	0.507	0.436	0.381	0.339	0.304	0.276	0.253	0.233	0.216	0.201	0.188	0.177	0.167	25.3
73.1-75.0	89.7- 92.5	2.195	1.299	0.920	0.708	0.573	0.480	0.412	0.361	0.320	0.288	0.261	0.239	0.220	0.204	0.190	0.178	0.167	0.158	25.4
75.1-77.0	92.7- 95.5	2.065	1.226	0.870	0.670	0.543	0.455	0.391	0.342	0.304	0.273	0.248	0.227	0.209	0.194	0.180	0.169	0.159	0.149	25.4
77.1-79.0	95.6- 98.5	1.945	1.158	0.824	0.635	0.515	0.432	0.371	0.325	0.288	0.259	0.235	0.215	0.198	0.184	0.171	0.160	0.150	0.142	25.4
79.1-81.0	98.7-101.5	1.833	1.096	0.781	0.603	0.489	0.410	0.352	0.308	0.274	0.246	0.223	0.204	0.188	0.174	0.163	0.152	0.143	0.135	25.5

Table 44. Trees/m^3 of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.3- 16.3	213.349	134.852	104.686	88.171	77.330	69.380	63.125	57.982	53.632	49.884	46.610	43.724	41.159	38.865	36.801	34.936	33.244	31.700	12.4
15.1-17.0	16.4- 18.5	75.000	42.788	29.825	22.840	18.481	15.507	13.350	11.715	10.434	9.404	8.557	7.850	7.249	6.734	6.286	5.894	5.548	5.240	13.8
17.1-19.0	18.6- 20.6	47.055	26.778	18.602	14.211	11.480	9.621	8.276	7.258	6.461	5.821	5.295	4.856	4.484	4.165	3.887	3.645	3.430	3.239	15.1
19.1-21.0	20.7- 22.8	34.450	19.635	13.645	10.426	8.423	7.060	6.074	5.327	4.743	4.273	3.888	3.565	3.292	3.058	2.854	2.676	2.519	2.379	16.3
21.1-23.0	22.9- 25.0	27.070	15.443	10.735	8.204	6.628	5.556	4.779	4.192	3.732	3.362	3.059	2.805	2.591	2.406	2.246	2.106	1.982	1.872	17.4
23.1-25.0	25.1- 27.3	22.157	12.645	8.790	6.717	5.426	4.548	3.912	3.431	3.054	2.751	2.503	2.295	2.119	1.968	1.837	1.722	1.621	1.531	18.4
25.1-27.0	27.4- 29.5	18.629	10.631	7.389	5.645	4.560	3.821	3.286	2.881	2.565	2.310	2.101	1.927	1.779	1.652	1.542	1.445	1.360	1.285	19.2
27.1-29.0	29.7- 31.8	15.964	9.109	6.330	4.835	3.904	3.271	2.812	2.465	2.194	1.976	1.797	1.648	1.521	1.413	1.318	1.236	1.163	1.098	20.0
29.1-31.0	32.0- 34.2	13.879	7.918	5.501	4.201	3.391	2.840	2.442	2.140	1.904	1.715	1.559	1.430	1.320	1.225	1.143	1.072	1.008	0.952	20.7
31.1-33.0	34.3- 36.5	12.203	6.961	4.836	3.691	2.979	2.495	2.144	1.879	1.672	1.505	1.368	1.254	1.158	1.075	1.003	0.940	0.884	0.835	21.3
33.1-35.0	36.6- 38.9	10.828	6.177	4.290	3.275	2.642	2.212	1.901	1.665	1.481	1.333	1.212	1.111	1.025	0.952	0.888	0.832	0.783	0.739	21.8
35.1-37.0	39.0- 41.3	9.680	5.523	3.836	2.927	2.362	1.977	1.698	1.487	1.323	1.191	1.082	0.992	0.915	0.849	0.792	0.743	0.699	0.659	22.3
37.1-39.0	41.4- 43.8	8.710	4.971	3.453	2.635	2.125	1.778	1.527	1.338	1.189	1.070	0.973	0.891	0.822	0.763	0.712	0.667	0.628	0.592	22.7
39.1-41.0	43.9- 46.2	7.879	4.499	3.126	2.385	1.923	1.609	1.382	1.210	1.076	0.968	0.880	0.806	0.743	0.690	0.643	0.603	0.567	0.535	23.0
41.1-43.0	46.4- 48.7	7.161	4.092	2.844	2.170	1.750	1.464	1.257	1.100	0.978	0.880	0.799	0.732	0.676	0.627	0.585	0.548	0.515	0.486	23.4
43.1-45.0	48.9- 51.3	6.535	3.738	2.599	1.983	1.599	1.337	1.148	1.005	0.893	0.804	0.730	0.669	0.617	0.572	0.534	0.500	0.470	0.444	23.6
45.1-47.0	51.4- 53.8	5.985	3.428	2.384	1.820	1.467	1.227	1.053	0.922	0.819	0.737	0.669	0.613	0.565	0.524	0.489	0.458	0.431	0.406	23.9
47.1-49.0	53.9- 56.4	5.500	3.154	2.195	1.676	1.351	1.130	0.970	0.849	0.754	0.678	0.616	0.564	0.520	0.482	0.450	0.421	0.396	0.374	24.1
49.1-51.0	56.5- 59.0	5.068	2.910	2.027	1.548	1.248	1.044	0.896	0.784	0.696	0.626	0.569	0.521	0.480	0.445	0.415	0.389	0.366	0.345	24.3
51.1-53.0	59.1- 61.6	4.682	2.693	1.878	1.434	1.156	0.967	0.830	0.726	0.645	0.580	0.527	0.482	0.445	0.412	0.384	0.360	0.338	0.319	24.5
53.1-55.0	61.8- 64.3	4.335	2.498	1.743	1.332	1.074	0.898	0.771	0.674	0.599	0.539	0.489	0.448	0.413	0.383	0.357	0.334	0.314	0.296	24.6
55.1-57.0	64.4- 67.0	4.023	2.323	1.623	1.240	1.001	0.837	0.718	0.628	0.558	0.502	0.455	0.417	0.384	0.356	0.332	0.311	0.292	0.276	24.7
57.1-59.0	67.1- 69.7	3.740	2.164	1.514	1.158	0.934	0.781	0.670	0.586	0.521	0.468	0.425	0.389	0.359	0.333	0.310	0.290	0.273	0.257	24.9
59.1-61.0	69.9- 72.5	3.484	2.020	1.415	1.083	0.874	0.731	0.627	0.549	0.487	0.438	0.398	0.364	0.335	0.311	0.290	0.271	0.255	0.241	24.9
61.1-63.0	72.6- 75.3	3.250	1.889	1.325	1.015	0.819	0.685	0.588	0.514	0.457	0.411	0.373	0.341	0.314	0.291	0.272	0.254	0.239	0.225	25.0
63.1-65.0	75.4- 78.1	3.036	1.770	1.243	0.952	0.769	0.643	0.552	0.483	0.429	0.386	0.350	0.320	0.295	0.274	0.255	0.239	0.224	0.212	25.1
65.1-67.0	78.2- 80.9	2.840	1.660	1.167	0.895	0.723	0.605	0.520	0.454	0.404	0.363	0.329	0.301	0.278	0.257	0.240	0.224	0.211	0.199	25.2
67.1-69.0	81.0- 83.8	2.660	1.559	1.098	0.843	0.682	0.570	0.490	0.428	0.380	0.342	0.310	0.284	0.262	0.242	0.226	0.211	0.199	0.187	25.2
69.1-71.0	83.9- 86.7	2.495	1.467	1.035	0.795	0.643	0.538	0.462	0.404	0.359	0.323	0.293	0.268	0.247	0.229	0.213	0.200	0.187	0.177	25.3
71.1-73.0	86.8- 89.6	2.342	1.381	0.976	0.751	0.607	0.509	0.437	0.382	0.339	0.305	0.277	0.253	0.233	0.216	0.201	0.189	0.177	0.167	25.3
73.1-75.0	89.7- 92.5	2.201	1.302	0.922	0.710	0.575	0.481	0.413	0.362	0.321	0.289	0.262	0.240	0.221	0.205	0.191	0.178	0.168	0.158	25.4
75.1-77.0	92.7- 95.5	2.071	1.229	0.872	0.672	0.544	0.456	0.392	0.343	0.304	0.273	0.248	0.227	0.209	0.194	0.181	0.169	0.159	0.150	25.4
77.1-79.0	95.6- 98.5	1.949	1.161	0.825	0.637	0.516	0.433	0.372	0.325	0.289	0.259	0.235	0.215	0.198	0.184	0.171	0.160	0.151	0.142	25.4
79.1-81.0	98.7-101.5	1.837	1.098	0.782	0.604	0.490	0.411	0.353	0.309	0.274	0.246	0.224	0.205	0.189	0.175	0.163	0.152	0.143	0.135	25.5

Table 45. Trees/m^3 of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 7, 8, 10

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.4- 18.5	191.803	128.569	106.043	93.898	85.362	78.382	72.305	66.911	62.103	57.814	53.987	50.566	47.502	44.750	42.270	40.028	37.995	36.145	13.8
17.1-19.0	18.6- 20.6	67.981	39.118	27.470	21.149	17.179	14.455	12.472	10.963	9.778	8.822	8.035	7.376	6.816	6.335	5.917	5.550	5.226	4.938	15.1
19.1-21.0	20.7- 22.8	42.444	24.114	16.738	12.776	10.312	8.636	7.423	6.506	5.789	5.213	4.741	4.346	4.012	3.725	3.476	3.258	3.065	2.894	16.3
21.1-23.0	22.9- 25.0	31.056	17.629	12.222	9.321	7.520	6.295	5.410	4.741	4.218	3.798	3.454	3.166	2.922	2.713	2.532	2.373	2.233	2.108	17.4
23.1-25.0	25.1- 27.3	24.443	13.882	9.624	7.340	5.922	4.957	4.260	3.733	3.321	2.991	2.720	2.493	2.301	2.136	1.994	1.869	1.758	1.660	18.4
25.1-27.0	27.4- 29.5	20.058	11.398	7.903	6.028	4.863	4.070	3.498	3.065	2.727	2.455	2.233	2.047	1.889	1.754	1.636	1.534	1.443	1.363	19.2
27.1-29.0	29.7- 31.8	16.913	9.615	6.668	5.085	4.102	3.433	2.950	2.585	2.299	2.070	1.882	1.725	1.592	1.478	1.379	1.293	1.216	1.148	20.0
29.1-31.0	32.0- 34.2	14.537	8.267	5.733	4.372	3.526	2.951	2.535	2.221	1.976	1.779	1.617	1.482	1.368	1.270	1.185	1.110	1.044	0.986	20.7
31.1-33.0	34.3- 36.5	12.676	7.211	5.001	3.813	3.075	2.573	2.210	1.936	1.722	1.550	1.409	1.291	1.191	1.106	1.032	0.967	0.910	0.859	21.3
33.1-35.0	36.6- 38.9	11.176	6.361	4.412	3.364	2.712	2.269	1.949	1.707	1.518	1.366	1.241	1.138	1.050	0.974	0.909	0.852	0.801	0.756	21.8
35.1-37.0	39.0- 41.3	9.943	5.662	3.928	2.994	2.414	2.019	1.734	1.518	1.350	1.215	1.104	1.012	0.933	0.866	0.808	0.757	0.712	0.672	22.3
37.1-39.0	41.4- 43.8	8.911	5.077	3.523	2.686	2.165	1.811	1.555	1.361	1.210	1.089	0.989	0.906	0.836	0.776	0.724	0.678	0.638	0.602	22.7
39.1-41.0	43.9- 46.2	8.036	4.582	3.181	2.425	1.954	1.634	1.403	1.228	1.092	0.982	0.892	0.817	0.754	0.700	0.652	0.611	0.575	0.543	23.0
41.1-43.0	46.4- 48.7	7.285	4.158	2.887	2.201	1.774	1.484	1.273	1.115	0.991	0.891	0.809	0.741	0.684	0.634	0.592	0.554	0.521	0.492	23.4
43.1-45.0	48.9- 51.3	6.634	3.791	2.634	2.008	1.619	1.353	1.161	1.016	0.903	0.812	0.738	0.676	0.623	0.578	0.539	0.505	0.475	0.448	23.6
45.1-47.0	51.4- 53.8	6.066	3.470	2.412	1.840	1.483	1.240	1.064	0.931	0.827	0.744	0.676	0.619	0.570	0.529	0.493	0.462	0.435	0.410	23.9
47.1-49.0	53.9- 56.4	5.565	3.188	2.218	1.692	1.364	1.140	0.978	0.856	0.760	0.684	0.621	0.569	0.524	0.486	0.453	0.425	0.399	0.377	24.1
49.1-51.0	56.5- 59.0	5.122	2.939	2.046	1.561	1.259	1.052	0.903	0.790	0.702	0.631	0.573	0.524	0.484	0.448	0.418	0.392	0.368	0.347	24.3
51.1-53.0	59.1- 61.6	4.726	2.717	1.893	1.445	1.165	0.974	0.836	0.731	0.649	0.584	0.530	0.485	0.447	0.415	0.387	0.362	0.340	0.321	24.5
53.1-55.0	61.8- 64.3	4.372	2.518	1.757	1.342	1.082	0.904	0.776	0.679	0.603	0.542	0.492	0.450	0.415	0.385	0.359	0.336	0.316	0.298	24.6
55.1-57.0	64.4- 67.0	4.054	2.340	1.634	1.249	1.007	0.842	0.722	0.632	0.561	0.504	0.458	0.419	0.386	0.358	0.334	0.313	0.294	0.277	24.7
57.1-59.0	67.1- 69.7	3.766	2.178	1.523	1.165	0.939	0.785	0.674	0.589	0.523	0.470	0.427	0.391	0.360	0.334	0.311	0.291	0.274	0.258	24.9
59.1-61.0	69.9- 72.5	3.506	2.032	1.423	1.089	0.878	0.735	0.630	0.551	0.489	0.440	0.399	0.365	0.337	0.312	0.291	0.272	0.256	0.242	24.9
61.1-63.0	72.6- 75.3	3.268	1.900	1.332	1.020	0.823	0.688	0.591	0.517	0.459	0.412	0.374	0.342	0.316	0.293	0.273	0.255	0.240	0.226	25.0
63.1-65.0	75.4- 78.1	3.052	1.779	1.249	0.957	0.772	0.646	0.554	0.485	0.431	0.387	0.351	0.321	0.296	0.275	0.256	0.239	0.225	0.212	25.1
65.1-67.0	78.2- 80.9	2.854	1.668	1.173	0.899	0.726	0.608	0.521	0.456	0.405	0.364	0.330	0.302	0.278	0.258	0.241	0.225	0.212	0.200	25.2
67.1-69.0	81.0- 83.8	2.672	1.566	1.103	0.846	0.684	0.572	0.491	0.430	0.382	0.343	0.311	0.285	0.262	0.243	0.227	0.212	0.199	0.188	25.2
69.1-71.0	83.9- 86.7	2.505	1.473	1.039	0.798	0.645	0.540	0.464	0.405	0.360	0.324	0.294	0.269	0.248	0.229	0.214	0.200	0.188	0.177	25.3
71.1-73.0	86.8- 89.6	2.351	1.386	0.980	0.753	0.609	0.510	0.438	0.383	0.340	0.306	0.277	0.254	0.234	0.217	0.202	0.189	0.178	0.167	25.3
73.1-75.0	89.7- 92.5	2.209	1.307	0.925	0.712	0.576	0.483	0.414	0.363	0.322	0.289	0.263	0.240	0.221	0.205	0.191	0.179	0.168	0.158	25.4
75.1-77.0	92.7- 95.5	2.077	1.233	0.875	0.674	0.546	0.457	0.393	0.344	0.305	0.274	0.249	0.228	0.210	0.194	0.181	0.169	0.159	0.150	25.4
77.1-79.0	95.6- 98.5	1.955	1.164	0.828	0.638	0.517	0.434	0.372	0.326	0.289	0.260	0.236	0.216	0.199	0.184	0.172	0.161	0.151	0.142	25.4
79.1-81.0	98.7-101.5	1.842	1.101	0.784	0.606	0.491	0.412	0.354	0.309	0.275	0.247	0.224	0.205	0.189	0.175	0.163	0.153	0.143	0.135	25.5

11.0 NUMBER OF TREES PER CUBIC METRE OF MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 1 TO 6, 9, 11 TO 16

Table 46. Trees/m³ of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	5.9- 7.9	477.698	274.986	192.592	148.001	120.085	100.978	87.087	76.537	68.253	61.578	56.086	51.488	47.583	44.226	41.308	38.750	36.489	34.475	5.6
7.1- 9.0	8.0- 10.1	174.299	102.133	72.025	55.556	45.185	38.061	32.867	28.914	25.806	23.298	21.232	19.501	18.029	16.763	15.663	14.697	13.842	13.082	7.4
9.1-11.0	10.2- 12.2	104.315	61.092	43.055	33.193	26.986	22.723	19.617	17.253	15.395	13.897	12.662	11.628	10.749	9.993	9.336	8.760	8.250	7.796	9.1
11.1-13.0	12.3- 14.4	72.077	42.057	29.580	22.774	18.496	15.563	13.427	11.804	10.528	9.500	8.654	7.945	7.343	6.825	6.375	5.980	5.632	5.321	10.8
13.1-15.0	14.5- 16.6	53.684	31.198	21.894	16.831	13.655	11.480	9.898	8.697	7.754	6.994	6.369	5.845	5.401	5.019	4.687	4.396	4.139	3.910	12.4
15.1-17.0	16.7- 18.8	41.938	24.282	17.007	13.056	10.581	8.889	7.659	6.726	5.994	5.404	4.920	4.514	4.170	3.874	3.617	3.392	3.193	3.016	13.9
17.1-19.0	18.9- 21.0	33.878	19.555	13.672	10.483	8.489	7.125	6.136	5.385	4.797	4.324	3.935	3.609	3.333	3.096	2.891	2.710	2.551	2.409	15.3
19.1-21.0	21.1- 23.3	28.058	16.157	11.281	8.641	6.991	5.864	5.047	4.428	3.942	3.552	3.232	2.964	2.736	2.541	2.372	2.223	2.092	1.976	16.6
21.1-23.0	23.4- 25.6	23.692	13.619	9.500	7.270	5.878	4.928	4.239	3.717	3.308	2.980	2.710	2.485	2.294	2.130	1.987	1.863	1.753	1.655	17.8
23.1-25.0	25.7- 27.9	20.317	11.667	8.132	6.220	5.026	4.211	3.621	3.174	2.824	2.543	2.312	2.119	1.956	1.816	1.694	1.588	1.494	1.410	18.9
25.1-27.0	28.0- 30.2	17.643	10.127	7.057	5.395	4.357	3.649	3.136	2.748	2.444	2.200	2.000	1.833	1.691	1.570	1.464	1.372	1.291	1.218	19.9
27.1-29.0	30.3- 32.6	15.482	8.888	6.193	4.733	3.821	3.199	2.749	2.408	2.141	1.927	1.751	1.605	1.480	1.374	1.281	1.200	1.129	1.066	20.9
29.1-31.0	32.7- 34.9	13.705	7.874	5.488	4.194	3.385	2.834	2.434	2.131	1.895	1.705	1.549	1.419	1.309	1.214	1.133	1.061	0.998	0.942	21.7
31.1-33.0	35.0- 37.3	12.224	7.032	4.904	3.748	3.025	2.531	2.174	1.903	1.692	1.522	1.382	1.266	1.168	1.083	1.010	0.946	0.890	0.839	22.5
33.1-35.0	37.4- 39.7	10.974	6.324	4.414	3.374	2.723	2.279	1.956	1.713	1.522	1.369	1.243	1.138	1.050	0.974	0.908	0.850	0.799	0.754	23.2
35.1-37.0	39.8- 42.2	9.907	5.721	3.998	3.058	2.468	2.065	1.773	1.551	1.378	1.240	1.126	1.031	0.950	0.881	0.822	0.769	0.723	0.682	23.8
37.1-39.0	42.3- 44.6	8.988	5.204	3.641	2.787	2.250	1.882	1.616	1.414	1.256	1.129	1.025	0.939	0.865	0.803	0.748	0.700	0.658	0.621	24.4
39.1-41.0	44.7- 47.1	8.190	4.756	3.333	2.553	2.061	1.725	1.481	1.296	1.151	1.035	0.939	0.860	0.792	0.735	0.685	0.641	0.603	0.568	25.0
41.1-43.0	47.2- 49.6	7.491	4.364	3.064	2.349	1.898	1.588	1.363	1.193	1.059	0.952	0.865	0.791	0.729	0.676	0.630	0.590	0.554	0.523	25.4
43.1-45.0	49.7- 52.1	6.876	4.020	2.829	2.170	1.754	1.468	1.260	1.103	0.980	0.880	0.799	0.731	0.674	0.625	0.582	0.545	0.512	0.483	25.9
45.1-47.0	52.3- 54.7	6.330	3.716	2.620	2.013	1.628	1.363	1.170	1.024	0.909	0.817	0.742	0.679	0.626	0.580	0.540	0.506	0.475	0.448	26.3
47.1-49.0	54.8- 57.2	5.845	3.445	2.435	1.873	1.516	1.270	1.090	0.954	0.847	0.761	0.691	0.632	0.583	0.540	0.503	0.471	0.442	0.417	26.6
49.1-51.0	57.4- 59.8	5.410	3.203	2.270	1.748	1.416	1.186	1.019	0.892	0.792	0.712	0.646	0.591	0.545	0.505	0.470	0.440	0.413	0.390	26.9
51.1-53.0	60.0- 62.4	5.018	2.986	2.122	1.636	1.326	1.112	0.955	0.836	0.743	0.667	0.606	0.554	0.511	0.473	0.441	0.412	0.387	0.365	27.2
53.1-55.0	62.6- 65.1	4.665	2.789	1.988	1.536	1.246	1.045	0.898	0.786	0.698	0.627	0.569	0.521	0.480	0.445	0.414	0.388	0.364	0.343	27.5
55.1-57.0	65.2- 67.7	4.345	2.612	1.867	1.445	1.173	0.984	0.846	0.741	0.658	0.592	0.537	0.491	0.452	0.419	0.391	0.365	0.343	0.324	27.7
57.1-59.0	67.9- 70.4	4.054	2.450	1.757	1.362	1.107	0.930	0.799	0.700	0.622	0.559	0.507	0.464	0.428	0.396	0.369	0.345	0.324	0.306	28.0
59.1-61.0	70.5- 73.1	3.789	2.302	1.656	1.287	1.047	0.880	0.757	0.663	0.589	0.529	0.481	0.440	0.405	0.375	0.350	0.327	0.307	0.290	28.1
61.1-63.0	73.3- 75.8	3.546	2.167	1.565	1.218	0.992	0.834	0.718	0.629	0.559	0.502	0.456	0.417	0.384	0.356	0.332	0.310	0.292	0.275	28.3
63.1-65.0	76.0- 78.6	3.324	2.043	1.480	1.154	0.942	0.792	0.682	0.598	0.531	0.478	0.434	0.397	0.366	0.339	0.315	0.295	0.277	0.261	28.5
65.1-67.0	78.7- 81.3	3.119	1.929	1.403	1.096	0.895	0.754	0.650	0.569	0.506	0.455	0.413	0.378	0.348	0.323	0.301	0.281	0.264	0.249	28.6
67.1-69.0	81.5- 84.1	2.931	1.823	1.331	1.043	0.853	0.719	0.619	0.543	0.483	0.434	0.394	0.361	0.332	0.308	0.287	0.268	0.252	0.238	28.8
69.1-71.0	84.3- 86.9	2.756	1.726	1.265	0.993	0.813	0.686	0.592	0.519	0.462	0.415	0.377	0.345	0.318	0.295	0.274	0.257	0.241	0.227	28.9
71.1-73.0	87.1- 89.8	2.595	1.636	1.203	0.947	0.777	0.656	0.566	0.497	0.442	0.398	0.361	0.330	0.304	0.282	0.263	0.246	0.231	0.218	29.0
73.1-75.0	89.9- 92.6	2.446	1.552	1.146	0.904	0.743	0.628	0.542	0.476	0.424	0.381	0.346	0.317	0.292	0.270	0.252	0.236	0.221	0.209	29.1
75.1-77.0	92.8- 95.5	2.308	1.473	1.093	0.865	0.711	0.602	0.520	0.457	0.407	0.366	0.332	0.304	0.280	0.260	0.242	0.226	0.213	0.200	29.2
77.1-79.0	95.7- 98.4	2.179	1.401	1.044	0.827	0.682	0.577	0.499	0.439	0.391	0.352	0.319	0.292	0.269	0.250	0.233	0.218	0.204	0.193	29.2
79.1-81.0	98.6-101.3	2.059	1.332	0.997	0.793	0.654	0.555	0.480	0.422	0.376	0.338	0.308	0.282	0.259	0.240	0.224	0.210	0.197	0.185	29.3

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 47. Trees/m^3 of merchantable volume at 0.30 m stump height and 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.0- 10.1	359.454	206.692	145.273	111.992	91.092	76.744	66.284	58.321	52.057	47.002	42.836	39.345	36.377	33.823	31.603	29.654	27.930	26.395	7.4
9.1-11.0	10.2- 12.2	132.069	76.074	53.200	40.823	33.085	27.795	23.954	21.040	18.754	16.913	15.400	14.133	13.058	12.134	11.332	10.628	10.006	9.453	9.1
11.1-13.0	12.3- 14.4	81.525	47.081	32.948	25.290	20.498	17.221	14.842	13.036	11.619	10.479	9.541	8.756	8.089	7.517	7.020	6.584	6.198	5.855	10.8
13.1-15.0	14.5- 16.6	57.945	33.433	23.379	17.934	14.528	12.200	10.510	9.229	8.224	7.414	6.749	6.193	5.721	5.315	4.963	4.654	4.381	4.138	12.4
15.1-17.0	16.7- 18.8	44.182	25.445	17.773	13.621	11.026	9.254	7.969	6.994	6.230	5.615	5.110	4.688	4.330	4.022	3.755	3.521	3.314	3.130	13.9
17.1-19.0	18.9- 21.0	35.185	20.225	14.111	10.804	8.740	7.331	6.309	5.535	4.929	4.441	4.041	3.706	3.422	3.178	2.966	2.781	2.617	2.472	15.3
19.1-21.0	21.1- 23.3	28.877	16.573	11.551	8.838	7.144	5.989	5.152	4.518	4.022	3.623	3.295	3.021	2.789	2.590	2.417	2.266	2.132	2.013	16.6
21.1-23.0	23.4- 25.6	24.233	13.893	9.676	7.398	5.977	5.008	4.306	3.775	3.359	3.025	2.751	2.521	2.327	2.161	2.016	1.889	1.778	1.678	17.8
23.1-25.0	25.7- 27.9	20.689	11.855	8.253	6.307	5.093	4.265	3.666	3.212	2.858	2.573	2.339	2.144	1.978	1.836	1.713	1.605	1.510	1.425	18.9
25.1-27.0	28.0- 30.2	17.908	10.261	7.142	5.456	4.404	3.687	3.168	2.775	2.468	2.221	2.019	1.850	1.707	1.584	1.478	1.384	1.302	1.229	19.9
27.1-29.0	30.3- 32.6	15.676	8.986	6.256	4.778	3.856	3.227	2.772	2.428	2.158	1.942	1.765	1.617	1.491	1.384	1.291	1.209	1.137	1.073	20.9
29.1-31.0	32.7- 34.9	13.851	7.948	5.535	4.228	3.411	2.854	2.451	2.146	1.907	1.716	1.559	1.428	1.317	1.222	1.139	1.067	1.004	0.947	21.7
31.1-33.0	35.0- 37.3	12.336	7.089	4.940	3.774	3.045	2.547	2.187	1.914	1.701	1.530	1.390	1.273	1.174	1.089	1.015	0.951	0.894	0.843	22.5
33.1-35.0	37.4- 39.7	11.061	6.368	4.442	3.395	2.739	2.291	1.967	1.721	1.529	1.375	1.249	1.144	1.054	0.978	0.912	0.854	0.803	0.757	23.2
35.1-37.0	39.8- 42.2	9.976	5.756	4.020	3.074	2.480	2.075	1.781	1.558	1.384	1.245	1.130	1.035	0.954	0.885	0.825	0.772	0.726	0.685	23.8
37.1-39.0	42.3- 44.6	9.043	5.232	3.659	2.800	2.260	1.890	1.622	1.419	1.261	1.133	1.029	0.942	0.868	0.805	0.751	0.703	0.660	0.623	24.4
39.1-41.0	44.7- 47.1	8.234	4.779	3.348	2.563	2.069	1.731	1.486	1.300	1.155	1.038	0.942	0.862	0.795	0.737	0.687	0.643	0.604	0.570	25.0
41.1-43.0	47.2- 49.6	7.527	4.383	3.077	2.358	1.904	1.593	1.368	1.196	1.063	0.955	0.867	0.793	0.731	0.678	0.632	0.591	0.556	0.524	25.4
43.1-45.0	49.7- 52.1	6.905	4.036	2.839	2.178	1.760	1.473	1.264	1.106	0.982	0.883	0.801	0.733	0.676	0.626	0.584	0.546	0.513	0.484	25.9
45.1-47.0	52.3- 54.7	6.355	3.729	2.629	2.019	1.633	1.367	1.173	1.027	0.912	0.819	0.744	0.680	0.627	0.581	0.541	0.507	0.476	0.449	26.3
47.1-49.0	54.8- 57.2	5.865	3.457	2.443	1.878	1.520	1.273	1.093	0.956	0.849	0.763	0.693	0.634	0.584	0.541	0.504	0.472	0.443	0.418	26.6
49.1-51.0	57.4- 59.8	5.427	3.213	2.276	1.753	1.419	1.189	1.021	0.894	0.794	0.713	0.647	0.592	0.546	0.506	0.471	0.441	0.414	0.390	26.9
51.1-53.0	60.0- 62.4	5.033	2.994	2.127	1.641	1.329	1.114	0.957	0.838	0.744	0.669	0.607	0.555	0.511	0.474	0.441	0.413	0.388	0.366	27.2
53.1-55.0	62.6- 65.1	4.678	2.797	1.993	1.539	1.249	1.047	0.900	0.787	0.699	0.629	0.570	0.522	0.481	0.446	0.415	0.388	0.365	0.344	27.5
55.1-57.0	65.2- 67.7	4.356	2.618	1.871	1.448	1.175	0.986	0.848	0.742	0.659	0.593	0.538	0.492	0.453	0.420	0.391	0.366	0.344	0.324	27.7
57.1-59.0	67.9- 70.4	4.063	2.455	1.760	1.365	1.109	0.931	0.801	0.701	0.623	0.560	0.508	0.465	0.428	0.397	0.370	0.346	0.325	0.306	28.0
59.1-61.0	70.5- 73.1	3.797	2.307	1.660	1.289	1.049	0.881	0.758	0.664	0.590	0.530	0.481	0.440	0.406	0.376	0.350	0.327	0.308	0.290	28.1
61.1-63.0	73.3- 75.8	3.553	2.171	1.567	1.220	0.994	0.835	0.719	0.630	0.560	0.503	0.457	0.418	0.385	0.357	0.332	0.311	0.292	0.275	28.3
63.1-65.0	76.0- 78.6	3.330	2.047	1.483	1.156	0.943	0.794	0.683	0.599	0.532	0.478	0.434	0.397	0.366	0.339	0.316	0.295	0.278	0.262	28.5
65.1-67.0	78.7- 81.3	3.124	1.932	1.405	1.098	0.897	0.755	0.650	0.570	0.507	0.456	0.414	0.379	0.349	0.323	0.301	0.282	0.264	0.249	28.6
67.1-69.0	81.5- 84.1	2.935	1.826	1.333	1.044	0.854	0.720	0.620	0.544	0.484	0.435	0.395	0.361	0.333	0.308	0.287	0.269	0.252	0.238	28.8
69.1-71.0	84.3- 86.9	2.760	1.728	1.267	0.995	0.814	0.687	0.592	0.520	0.462	0.416	0.377	0.345	0.318	0.295	0.275	0.257	0.241	0.227	28.9
71.1-73.0	87.1- 89.8	2.599	1.638	1.205	0.948	0.778	0.657	0.567	0.497	0.442	0.398	0.361	0.331	0.305	0.282	0.263	0.246	0.231	0.218	29.0
73.1-75.0	89.9- 92.6	2.449	1.554	1.148	0.906	0.744	0.629	0.543	0.477	0.424	0.382	0.347	0.317	0.292	0.271	0.252	0.236	0.222	0.209	29.1
75.1-77.0	92.8- 95.5	2.310	1.475	1.095	0.866	0.712	0.602	0.521	0.457	0.407	0.366	0.333	0.304	0.281	0.260	0.242	0.227	0.213	0.200	29.2
77.1-79.0	95.7- 98.4	2.181	1.402	1.045	0.828	0.683	0.578	0.500	0.439	0.391	0.352	0.320	0.293	0.270	0.250	0.233	0.218	0.205	0.193	29.2
79.1-81.0	98.6-101.3	2.061	1.334	0.998	0.794	0.655	0.555	0.480	0.422	0.376	0.339	0.308	0.282	0.260	0.241	0.224	0.210	0.197	0.186	29.3

Table 48. Trees/m³ of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.4	139.521	80.030	56.024	43.031	34.892	29.319	25.268	22.193	19.779	17.834	16.235	14.897	13.762	12.786	11.938	11.195	10.538	9.954	10.8
13.1-15.0	14.5- 16.6	75.755	43.167	30.007	22.929	18.523	15.522	13.350	11.706	10.420	9.386	8.537	7.828	7.227	6.711	6.263	5.871	5.525	5.217	12.4
15.1-17.0	16.7- 18.8	52.123	29.723	20.657	15.780	12.744	10.677	9.181	8.050	7.164	6.452	5.868	5.381	4.967	4.612	4.304	4.035	3.796	3.585	13.9
17.1-19.0	18.9- 21.0	39.400	22.476	15.618	11.927	9.630	8.066	6.934	6.078	5.408	4.870	4.429	4.060	3.748	3.479	3.247	3.043	2.863	2.703	15.3
19.1-21.0	21.1- 23.3	31.362	17.892	12.430	9.490	7.659	6.413	5.512	4.830	4.297	3.868	3.517	3.224	2.975	2.762	2.577	2.415	2.272	2.145	16.6
21.1-23.0	23.4- 25.6	25.808	14.725	10.229	7.807	6.298	5.272	4.529	3.968	3.529	3.177	2.887	2.646	2.442	2.266	2.114	1.981	1.864	1.759	17.8
23.1-25.0	25.7- 27.9	21.742	12.409	8.620	6.577	5.305	4.439	3.813	3.339	2.969	2.672	2.428	2.225	2.053	1.905	1.777	1.665	1.566	1.478	18.9
25.1-27.0	28.0- 30.2	18.641	10.647	7.397	5.643	4.551	3.807	3.269	2.862	2.544	2.289	2.080	1.905	1.757	1.631	1.521	1.425	1.340	1.265	19.9
27.1-29.0	30.3- 32.6	16.202	9.264	6.439	4.913	3.961	3.313	2.844	2.489	2.212	1.990	1.808	1.656	1.527	1.417	1.321	1.237	1.164	1.098	20.9
29.1-31.0	32.7- 34.9	14.240	8.153	5.671	4.327	3.489	2.917	2.504	2.191	1.947	1.751	1.590	1.456	1.343	1.246	1.162	1.088	1.023	0.965	21.7
31.1-33.0	35.0- 37.3	12.629	7.244	5.043	3.849	3.103	2.595	2.227	1.948	1.731	1.556	1.413	1.294	1.193	1.107	1.032	0.966	0.908	0.857	22.5
33.1-35.0	37.4- 39.7	11.286	6.488	4.522	3.453	2.784	2.328	1.997	1.747	1.552	1.395	1.267	1.160	1.069	0.992	0.924	0.865	0.814	0.768	23.2
35.1-37.0	39.8- 42.2	10.151	5.851	4.083	3.120	2.516	2.103	1.805	1.579	1.402	1.260	1.144	1.047	0.965	0.895	0.834	0.781	0.734	0.693	23.8
37.1-39.0	42.3- 44.6	9.181	5.307	3.709	2.836	2.288	1.913	1.641	1.436	1.275	1.146	1.040	0.952	0.878	0.814	0.758	0.710	0.667	0.629	24.4
39.1-41.0	44.7- 47.1	8.345	4.839	3.388	2.593	2.092	1.750	1.501	1.313	1.166	1.048	0.951	0.871	0.802	0.744	0.693	0.649	0.610	0.575	25.0
41.1-43.0	47.2- 49.6	7.617	4.433	3.110	2.382	1.923	1.609	1.380	1.207	1.072	0.963	0.874	0.800	0.737	0.683	0.637	0.596	0.560	0.528	25.4
43.1-45.0	49.7- 52.1	6.979	4.077	2.866	2.198	1.776	1.486	1.275	1.115	0.990	0.890	0.807	0.739	0.681	0.631	0.588	0.550	0.517	0.487	25.9
45.1-47.0	52.3- 54.7	6.415	3.763	2.652	2.036	1.646	1.377	1.182	1.034	0.918	0.825	0.749	0.685	0.631	0.585	0.545	0.510	0.479	0.452	26.3
47.1-49.0	54.8- 57.2	5.915	3.485	2.462	1.893	1.531	1.282	1.100	0.963	0.855	0.768	0.697	0.638	0.587	0.544	0.507	0.475	0.446	0.420	26.6
49.1-51.0	57.4- 59.8	5.468	3.237	2.293	1.765	1.429	1.197	1.028	0.899	0.798	0.717	0.651	0.595	0.549	0.508	0.474	0.443	0.416	0.392	26.9
51.1-53.0	60.0- 62.4	5.068	3.014	2.141	1.651	1.338	1.121	0.963	0.842	0.748	0.672	0.610	0.558	0.514	0.476	0.444	0.415	0.390	0.368	27.2
53.1-55.0	62.6- 65.1	4.707	2.814	2.005	1.548	1.256	1.053	0.904	0.792	0.703	0.632	0.573	0.524	0.483	0.448	0.417	0.390	0.366	0.345	27.5
55.1-57.0	65.2- 67.7	4.381	2.633	1.882	1.456	1.182	0.991	0.852	0.746	0.662	0.595	0.540	0.494	0.455	0.422	0.393	0.367	0.345	0.325	27.7
57.1-59.0	67.9- 70.4	4.085	2.468	1.770	1.372	1.115	0.936	0.804	0.704	0.626	0.562	0.510	0.467	0.430	0.398	0.371	0.347	0.326	0.307	28.0
59.1-61.0	70.5- 73.1	3.815	2.318	1.668	1.295	1.054	0.885	0.761	0.667	0.592	0.532	0.483	0.442	0.407	0.377	0.351	0.329	0.309	0.291	28.1
61.1-63.0	73.3- 75.8	3.569	2.181	1.575	1.225	0.998	0.839	0.722	0.632	0.562	0.505	0.458	0.419	0.386	0.358	0.333	0.312	0.293	0.276	28.3
63.1-65.0	76.0- 78.6	3.343	2.055	1.489	1.161	0.947	0.797	0.686	0.601	0.534	0.480	0.436	0.399	0.367	0.340	0.317	0.296	0.278	0.262	28.5
65.1-67.0	78.7- 81.3	3.136	1.940	1.411	1.102	0.900	0.758	0.653	0.572	0.509	0.457	0.415	0.380	0.350	0.324	0.302	0.282	0.265	0.250	28.6
67.1-69.0	81.5- 84.1	2.945	1.833	1.338	1.048	0.857	0.722	0.622	0.546	0.485	0.436	0.396	0.362	0.334	0.309	0.288	0.269	0.253	0.238	28.8
69.1-71.0	84.3- 86.9	2.769	1.734	1.271	0.998	0.817	0.689	0.594	0.521	0.464	0.417	0.379	0.346	0.319	0.296	0.275	0.258	0.242	0.228	28.9
71.1-73.0	87.1- 89.8	2.606	1.643	1.209	0.952	0.780	0.659	0.568	0.499	0.444	0.399	0.362	0.332	0.306	0.283	0.264	0.247	0.232	0.218	29.0
73.1-75.0	89.9- 92.6	2.456	1.558	1.151	0.908	0.746	0.631	0.544	0.478	0.425	0.383	0.347	0.318	0.293	0.271	0.253	0.236	0.222	0.209	29.1
75.1-77.0	92.8- 95.5	2.316	1.479	1.098	0.868	0.714	0.604	0.522	0.458	0.408	0.367	0.334	0.305	0.281	0.261	0.243	0.227	0.213	0.201	29.2
77.1-79.0	95.7- 98.4	2.186	1.406	1.048	0.831	0.685	0.580	0.501	0.440	0.392	0.353	0.321	0.293	0.270	0.251	0.233	0.218	0.205	0.193	29.2
79.1-81.0	98.6-101.3	2.065	1.337	1.001	0.796	0.657	0.557	0.482	0.424	0.377	0.340	0.309	0.282	0.260	0.241	0.225	0.210	0.197	0.186	29.3

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 49. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

	STUMP	TOTAL TREE HEIGHT (m)																		
DBHOB (cm)	DOB (cm)	3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.4	228.367	140.537	105.773	86.741	74.551	65.969	59.527	54.460	50.333	46.880	43.929	41.363	39.104	37.093	35.286	33.652	32.165	30.804	10.8
13.1-15.0	14.5- 16.6	90.028	51.380	35.790	27.383	22.138	18.560	15.966	14.002	12.464	11.228	10.213	9.364	8.645	8.028	7.492	7.023	6.608	6.240	12.4
15.1-17.0	16.7- 18.8	57.242	32.574	22.617	17.265	13.935	11.669	10.030	8.791	7.821	7.043	6.404	5.870	5.418	5.030	4.694	4.399	4.139	3.908	13.9
17.1-19.0	18.9- 21.0	41.838	23.815	16.530	12.613	10.177	8.520	7.322	6.416	5.707	5.138	4.671	4.282	3.952	3.668	3.423	3.208	3.018	2.849	15.3
19.1-21.0	21.1- 23.3	32.711	18.627	12.928	9.862	7.956	6.659	5.721	5.011	4.457	4.012	3.647	3.342	3.084	2.863	2.671	2.503	2.354	2.222	16.6
21.1-23.0	23.4- 25.6	26.627	15.170	10.529	8.030	6.476	5.419	4.654	4.076	3.624	3.262	2.965	2.716	2.506	2.326	2.170	2.033	1.912	1.805	17.8
23.1-25.0	25.7- 27.9	22.273	12.697	8.814	6.721	5.419	4.533	3.892	3.408	3.030	2.726	2.477	2.270	2.094	1.943	1.812	1.698	1.597	1.507	18.9
25.1-27.0	28.0- 30.2	19.002	10.842	7.529	5.741	4.628	3.870	3.323	2.909	2.585	2.326	2.113	1.935	1.785	1.656	1.544	1.447	1.361	1.284	19.9
27.1-29.0	30.3- 32.6	16.458	9.402	6.532	4.982	4.015	3.357	2.881	2.522	2.241	2.016	1.831	1.677	1.546	1.434	1.337	1.253	1.178	1.112	20.9
29.1-31.0	32.7- 34.9	14.425	8.254	5.739	4.377	3.528	2.950	2.531	2.215	1.968	1.769	1.607	1.471	1.357	1.259	1.173	1.099	1.033	0.975	21.7
31.1-33.0	35.0- 37.3	12.767	7.320	5.094	3.887	3.133	2.619	2.247	1.966	1.746	1.570	1.426	1.305	1.203	1.116	1.040	0.974	0.916	0.864	22.5
33.1-35.0	37.4- 39.7	11.391	6.546	4.560	3.482	2.807	2.346	2.013	1.761	1.564	1.406	1.276	1.168	1.077	0.999	0.931	0.872	0.819	0.773	23.2
35.1-37.0	39.8- 42.2	10.232	5.896	4.113	3.142	2.533	2.118	1.817	1.589	1.411	1.269	1.152	1.054	0.971	0.901	0.840	0.786	0.739	0.697	23.8
37.1-39.0	42.3- 44.6	9.245	5.343	3.734	2.854	2.302	1.925	1.651	1.444	1.282	1.152	1.046	0.957	0.882	0.818	0.762	0.714	0.671	0.633	24.4
39.1-41.0	44.7- 47.1	8.396	4.868	3.408	2.607	2.104	1.759	1.509	1.320	1.172	1.053	0.956	0.875	0.806	0.747	0.696	0.652	0.612	0.578	25.0
41.1-43.0	47.2- 49.6	7.658	4.456	3.126	2.394	1.932	1.616	1.387	1.213	1.077	0.968	0.878	0.803	0.740	0.686	0.639	0.598	0.562	0.530	25.4
43.1-45.0	49.7- 52.1	7.012	4.096	2.879	2.208	1.783	1.492	1.280	1.119	0.994	0.893	0.810	0.741	0.683	0.633	0.590	0.552	0.519	0.489	25.9
45.1-47.0	52.3- 54.7	6.442	3.779	2.663	2.044	1.652	1.383	1.187	1.038	0.921	0.828	0.751	0.687	0.633	0.587	0.547	0.512	0.481	0.453	26.3
47.1-49.0	54.8- 57.2	5.937	3.498	2.471	1.900	1.536	1.286	1.104	0.966	0.857	0.770	0.699	0.639	0.589	0.546	0.509	0.476	0.447	0.422	26.6
49.1-51.0	57.4- 59.8	5.487	3.248	2.301	1.771	1.434	1.201	1.031	0.902	0.801	0.719	0.653	0.597	0.550	0.510	0.475	0.444	0.417	0.393	26.9
51.1-53.0	60.0- 62.4	5.083	3.024	2.148	1.656	1.342	1.124	0.965	0.845	0.750	0.674	0.611	0.559	0.515	0.477	0.445	0.416	0.391	0.368	27.2
53.1-55.0	62.6- 65.1	4.720	2.822	2.011	1.553	1.259	1.056	0.907	0.794	0.705	0.633	0.575	0.526	0.484	0.449	0.418	0.391	0.367	0.346	27.5
55.1-57.0	65.2- 67.7	4.392	2.640	1.886	1.459	1.185	0.994	0.854	0.748	0.664	0.597	0.541	0.495	0.456	0.423	0.394	0.368	0.346	0.326	27.7
57.1-59.0	67.9- 70.4	4.094	2.474	1.774	1.375	1.117	0.938	0.806	0.706	0.627	0.563	0.511	0.468	0.431	0.399	0.372	0.348	0.327	0.308	28.0
59.1-61.0	70.5- 73.1	3.823	2.323	1.671	1.298	1.056	0.887	0.763	0.668	0.593	0.533	0.484	0.443	0.408	0.378	0.352	0.329	0.309	0.291	28.1
61.1-63.0	73.3- 75.8	3.575	2.185	1.578	1.228	1.000	0.841	0.723	0.634	0.563	0.506	0.459	0.420	0.387	0.358	0.334	0.312	0.293	0.276	28.3
63.1-65.0	76.0- 78.6	3.349	2.059	1.492	1.163	0.949	0.798	0.687	0.602	0.535	0.481	0.437	0.399	0.368	0.341	0.317	0.297	0.279	0.263	28.5
65.1-67.0	78.7- 81.3	3.141	1.943	1.413	1.104	0.902	0.759	0.654	0.573	0.510	0.458	0.416	0.380	0.350	0.325	0.302	0.283	0.266	0.250	28.6
67.1-69.0	81.5- 84.1	2.949	1.836	1.340	1.050	0.859	0.723	0.623	0.547	0.486	0.437	0.397	0.363	0.334	0.310	0.288	0.270	0.253	0.239	28.8
69.1-71.0	84.3- 86.9	2.773	1.737	1.273	1.000	0.819	0.690	0.595	0.522	0.464	0.418	0.379	0.347	0.320	0.296	0.276	0.258	0.242	0.228	28.9
71.1-73.0	87.1- 89.8	2.610	1.645	1.211	0.953	0.782	0.660	0.569	0.500	0.444	0.400	0.363	0.332	0.306	0.283	0.264	0.247	0.232	0.219	29.0
73.1-75.0	89.9- 92.6	2.459	1.560	1.153	0.910	0.747	0.631	0.545	0.479	0.426	0.383	0.348	0.318	0.293	0.272	0.253	0.237	0.222	0.210	29.1
75.1-77.0	92.8- 95.5	2.319	1.481	1.099	0.869	0.715	0.605	0.523	0.459	0.409	0.368	0.334	0.306	0.282	0.261	0.243	0.227	0.213	0.201	29.2
77.1-79.0	95.7- 98.4	2.188	1.408	1.049	0.832	0.685	0.580	0.502	0.441	0.393	0.353	0.321	0.294	0.271	0.251	0.234	0.219	0.205	0.193	29.2
79.1-81.0	98.6-101.3	2.067	1.339	1.002	0.797	0.658	0.557	0.482	0.424	0.378	0.340	0.309	0.283	0.261	0.241	0.225	0.210	0.198	0.186	29.3

Table 50. Trees/m^3 of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.5- 16.6	183.123	117.313	92.286	79.083	70.833	65.020	60.517	56.773	53.512	50.593	47.941	45.513	43.280	41.223	39.324	37.569	35.944	34.438	12.4
15.1-17.0	16.7- 18.8	77.204	44.422	31.139	23.924	19.395	16.291	14.034	12.320	10.974	9.891	9.001	8.256	7.624	7.081	6.609	6.196	5.832	5.507	13.9
17.1-19.0	18.9- 21.0	49.785	28.346	19.689	15.027	12.123	10.147	8.716	7.635	6.790	6.111	5.554	5.090	4.696	4.359	4.066	3.810	3.584	3.383	15.3
19.1-21.0	21.1- 23.3	36.727	20.880	14.480	11.038	8.898	7.442	6.390	5.595	4.974	4.476	4.067	3.726	3.437	3.190	2.975	2.788	2.622	2.475	16.6
21.1-23.0	23.4- 25.6	28.940	16.457	11.410	8.695	7.006	5.858	5.029	4.402	3.913	3.520	3.198	2.930	2.702	2.508	2.339	2.191	2.061	1.945	17.8
23.1-25.0	25.7- 27.9	23.720	13.499	9.361	7.133	5.747	4.804	4.123	3.609	3.207	2.884	2.620	2.400	2.213	2.054	1.915	1.794	1.687	1.592	18.9
25.1-27.0	28.0- 30.2	19.962	11.374	7.891	6.013	4.844	4.048	3.474	3.040	2.701	2.429	2.206	2.020	1.863	1.728	1.612	1.509	1.419	1.339	19.9
27.1-29.0	30.3- 32.6	17.123	9.771	6.783	5.169	4.164	3.480	2.986	2.612	2.320	2.087	1.895	1.735	1.600	1.484	1.383	1.296	1.218	1.149	20.9
29.1-31.0	32.7- 34.9	14.903	8.519	5.919	4.512	3.635	3.038	2.606	2.279	2.024	1.820	1.653	1.513	1.395	1.294	1.206	1.129	1.062	1.002	21.7
31.1-33.0	35.0- 37.3	13.119	7.516	5.227	3.987	3.212	2.684	2.302	2.013	1.788	1.607	1.459	1.336	1.231	1.142	1.064	0.997	0.937	0.884	22.5
33.1-35.0	37.4- 39.7	11.656	6.694	4.662	3.557	2.867	2.395	2.054	1.797	1.595	1.434	1.302	1.191	1.098	1.018	0.949	0.888	0.835	0.788	23.2
35.1-37.0	39.8- 42.2	10.436	6.010	4.192	3.201	2.580	2.156	1.849	1.617	1.436	1.290	1.171	1.072	0.988	0.916	0.853	0.799	0.751	0.708	23.8
37.1-39.0	42.3- 44.6	9.404	5.433	3.796	2.900	2.339	1.955	1.676	1.466	1.301	1.169	1.061	0.971	0.895	0.830	0.773	0.724	0.680	0.641	24.4
39.1-41.0	44.7- 47.1	8.521	4.940	3.457	2.644	2.133	1.783	1.529	1.337	1.187	1.067	0.968	0.886	0.816	0.756	0.705	0.660	0.620	0.585	25.0
41.1-43.0	47.2- 49.6	7.758	4.514	3.166	2.424	1.956	1.636	1.403	1.227	1.089	0.979	0.888	0.812	0.748	0.694	0.646	0.605	0.568	0.536	25.4
43.1-45.0	49.7- 52.1	7.093	4.143	2.912	2.233	1.803	1.508	1.294	1.131	1.004	0.902	0.819	0.749	0.690	0.639	0.596	0.557	0.524	0.494	25.9
45.1-47.0	52.3- 54.7	6.508	3.818	2.690	2.065	1.669	1.396	1.198	1.048	0.930	0.835	0.758	0.693	0.639	0.592	0.551	0.516	0.485	0.457	26.3
47.1-49.0	54.8- 57.2	5.992	3.531	2.494	1.917	1.550	1.298	1.114	0.974	0.865	0.777	0.705	0.645	0.594	0.550	0.512	0.480	0.450	0.425	26.6
49.1-51.0	57.4- 59.8	5.532	3.275	2.320	1.786	1.445	1.210	1.039	0.909	0.807	0.725	0.658	0.601	0.554	0.513	0.478	0.447	0.420	0.396	26.9
51.1-53.0	60.0- 62.4	5.121	3.047	2.164	1.669	1.352	1.132	0.972	0.851	0.755	0.679	0.616	0.563	0.519	0.481	0.448	0.419	0.393	0.371	27.2
53.1-55.0	62.6- 65.1	4.752	2.842	2.025	1.563	1.268	1.063	0.913	0.799	0.709	0.637	0.578	0.529	0.487	0.451	0.420	0.393	0.369	0.348	27.5
55.1-57.0	65.2- 67.7	4.418	2.656	1.899	1.469	1.192	1.000	0.859	0.752	0.668	0.600	0.544	0.498	0.459	0.425	0.396	0.370	0.348	0.328	27.7
57.1-59.0	67.9- 70.4	4.117	2.488	1.784	1.383	1.124	0.943	0.811	0.710	0.630	0.566	0.514	0.470	0.433	0.401	0.374	0.349	0.328	0.309	28.0
59.1-61.0	70.5- 73.1	3.842	2.336	1.681	1.305	1.062	0.892	0.767	0.671	0.596	0.536	0.486	0.445	0.410	0.380	0.353	0.331	0.311	0.293	28.1
61.1-63.0	73.3- 75.8	3.592	2.196	1.586	1.234	1.005	0.845	0.727	0.637	0.566	0.508	0.461	0.422	0.389	0.360	0.335	0.314	0.295	0.278	28.3
63.1-65.0	76.0- 78.6	3.363	2.068	1.499	1.169	0.953	0.802	0.690	0.605	0.537	0.483	0.438	0.401	0.369	0.342	0.319	0.298	0.280	0.264	28.5
65.1-67.0	78.7- 81.3	3.153	1.951	1.419	1.109	0.906	0.763	0.657	0.576	0.512	0.460	0.417	0.382	0.352	0.326	0.303	0.284	0.267	0.251	28.6
67.1-69.0	81.5- 84.1	2.960	1.843	1.346	1.054	0.862	0.726	0.626	0.549	0.488	0.439	0.398	0.364	0.336	0.311	0.289	0.271	0.254	0.240	28.8
69.1-71.0	84.3- 86.9	2.782	1.743	1.278	1.003	0.822	0.693	0.598	0.524	0.466	0.419	0.380	0.348	0.321	0.297	0.277	0.259	0.243	0.229	28.9
71.1-73.0	87.1- 89.8	2.618	1.651	1.215	0.956	0.784	0.662	0.571	0.501	0.446	0.401	0.364	0.333	0.307	0.284	0.265	0.248	0.233	0.219	29.0
73.1-75.0	89.9- 92.6	2.466	1.565	1.157	0.913	0.750	0.634	0.547	0.480	0.427	0.384	0.349	0.319	0.294	0.273	0.254	0.237	0.223	0.210	29.1
75.1-77.0	92.8- 95.5	2.325	1.486	1.103	0.872	0.718	0.607	0.524	0.461	0.410	0.369	0.335	0.307	0.282	0.262	0.244	0.228	0.214	0.202	29.2
77.1-79.0	95.7- 98.4	2.194	1.411	1.052	0.834	0.688	0.582	0.503	0.442	0.394	0.354	0.322	0.295	0.271	0.252	0.234	0.219	0.206	0.194	29.2
79.1-81.0	98.6-101.3	2.072	1.342	1.005	0.799	0.660	0.559	0.484	0.425	0.379	0.341	0.310	0.284	0.261	0.242	0.225	0.211	0.198	0.187	29.3

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 51. Trees/m³ of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: 1 TO 6, 9, 11 TO 16

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.7- 18.8	147.182	97.577	79.810	71.119	65.977	62.294	59.181	56.291	53.521	50.860	48.325	45.929	43.681	41.583	39.630	37.817	36.135	34.573	13.9
17.1-19.0	18.9- 21.0	66.890	39.040	27.686	21.455	17.505	14.776	12.777	11.251	10.048	9.075	8.272	7.599	7.026	6.533	6.104	5.727	5.394	5.097	15.3
19.1-21.0	21.1- 23.3	43.857	25.108	17.504	13.386	10.811	9.053	7.779	6.815	6.060	5.454	4.957	4.542	4.190	3.888	3.627	3.398	3.196	3.016	16.6
21.1-23.0	23.4- 25.6	32.646	18.607	12.921	9.854	7.942	6.641	5.700	4.989	4.433	3.988	3.622	3.318	3.060	2.839	2.647	2.479	2.331	2.200	17.8
23.1-25.0	25.7- 27.9	25.898	14.750	10.233	7.797	6.280	5.249	4.503	3.940	3.500	3.148	2.859	2.618	2.414	2.239	2.088	1.955	1.839	1.735	18.9
25.1-27.0	28.0- 30.2	21.348	12.166	8.440	6.430	5.178	4.326	3.711	3.246	2.883	2.592	2.354	2.155	1.987	1.843	1.718	1.609	1.513	1.427	19.9
27.1-29.0	30.3- 32.6	18.055	10.303	7.151	5.449	4.387	3.665	3.143	2.749	2.442	2.195	1.993	1.824	1.682	1.560	1.454	1.361	1.280	1.207	20.9
29.1-31.0	32.7- 34.9	15.556	8.893	6.178	4.708	3.791	3.167	2.716	2.375	2.109	1.895	1.721	1.575	1.452	1.346	1.255	1.175	1.104	1.042	21.7
31.1-33.0	35.0- 37.3	13.592	7.787	5.415	4.129	3.325	2.778	2.382	2.083	1.849	1.662	1.508	1.380	1.272	1.180	1.099	1.029	0.968	0.913	22.5
33.1-35.0	37.4- 39.7	12.007	6.897	4.802	3.664	2.951	2.465	2.114	1.848	1.641	1.474	1.338	1.225	1.128	1.046	0.975	0.913	0.858	0.809	23.2
35.1-37.0	39.8- 42.2	10.703	6.165	4.299	3.282	2.645	2.209	1.894	1.656	1.470	1.321	1.199	1.097	1.011	0.937	0.873	0.817	0.768	0.724	23.8
37.1-39.0	42.3- 44.6	9.610	5.553	3.879	2.964	2.389	1.996	1.712	1.496	1.328	1.193	1.083	0.991	0.913	0.846	0.788	0.738	0.693	0.654	24.4
39.1-41.0	44.7- 47.1	8.683	5.035	3.524	2.695	2.173	1.816	1.558	1.362	1.209	1.086	0.985	0.901	0.830	0.770	0.717	0.671	0.631	0.595	25.0
41.1-43.0	47.2- 49.6	7.886	4.590	3.219	2.465	1.989	1.663	1.426	1.247	1.106	0.994	0.902	0.825	0.760	0.704	0.656	0.614	0.577	0.544	25.4
43.1-45.0	49.7- 52.1	7.196	4.205	2.956	2.266	1.829	1.530	1.312	1.147	1.018	0.915	0.830	0.759	0.699	0.648	0.604	0.565	0.531	0.500	25.9
45.1-47.0	52.3- 54.7	6.592	3.869	2.726	2.092	1.690	1.414	1.213	1.061	0.941	0.846	0.767	0.702	0.646	0.599	0.558	0.522	0.490	0.462	26.3
47.1-49.0	54.8- 57.2	6.060	3.573	2.524	1.940	1.569	1.313	1.126	0.985	0.874	0.785	0.712	0.652	0.600	0.556	0.518	0.485	0.455	0.429	26.6
49.1-51.0	57.4- 59.8	5.588	3.310	2.345	1.805	1.461	1.223	1.050	0.918	0.815	0.732	0.664	0.607	0.559	0.518	0.483	0.452	0.424	0.400	26.9
51.1-53.0	60.0- 62.4	5.168	3.076	2.186	1.685	1.365	1.143	0.982	0.859	0.762	0.685	0.621	0.568	0.523	0.485	0.451	0.422	0.397	0.374	27.2
53.1-55.0	62.6- 65.1	4.791	2.866	2.043	1.577	1.279	1.072	0.921	0.806	0.715	0.642	0.583	0.533	0.491	0.455	0.424	0.396	0.372	0.351	27.5
55.1-57.0	65.2- 67.7	4.451	2.677	1.914	1.481	1.202	1.008	0.866	0.758	0.673	0.605	0.548	0.502	0.462	0.428	0.399	0.373	0.350	0.330	27.7
57.1-59.0	67.9- 70.4	4.144	2.506	1.798	1.394	1.132	0.950	0.817	0.715	0.635	0.570	0.518	0.473	0.436	0.404	0.376	0.352	0.330	0.311	28.0
59.1-61.0	70.5- 73.1	3.866	2.351	1.692	1.314	1.069	0.898	0.772	0.676	0.600	0.540	0.489	0.448	0.412	0.382	0.356	0.333	0.312	0.294	28.1
61.1-63.0	73.3- 75.8	3.612	2.210	1.596	1.242	1.012	0.850	0.731	0.641	0.569	0.511	0.464	0.424	0.391	0.362	0.337	0.315	0.296	0.279	28.3
63.1-65.0	76.0- 78.6	3.380	2.080	1.508	1.176	0.959	0.807	0.694	0.608	0.541	0.486	0.441	0.403	0.371	0.344	0.320	0.300	0.281	0.265	28.5
65.1-67.0	78.7- 81.3	3.168	1.961	1.427	1.115	0.911	0.767	0.660	0.579	0.514	0.462	0.420	0.384	0.354	0.327	0.305	0.285	0.268	0.252	28.6
67.1-69.0	81.5- 84.1	2.973	1.852	1.353	1.060	0.867	0.730	0.629	0.552	0.490	0.441	0.400	0.366	0.337	0.312	0.291	0.272	0.255	0.241	28.8
69.1-71.0	84.3- 86.9	2.793	1.751	1.284	1.008	0.826	0.696	0.600	0.527	0.468	0.421	0.382	0.350	0.322	0.298	0.278	0.260	0.244	0.230	28.9
71.1-73.0	87.1- 89.8	2.627	1.658	1.221	0.961	0.788	0.665	0.574	0.504	0.448	0.403	0.366	0.335	0.308	0.286	0.266	0.249	0.234	0.220	29.0
73.1-75.0	89.9- 92.6	2.474	1.571	1.162	0.917	0.753	0.636	0.549	0.482	0.429	0.386	0.350	0.321	0.295	0.274	0.255	0.238	0.224	0.211	29.1
75.1-77.0	92.8- 95.5	2.332	1.491	1.107	0.876	0.721	0.610	0.527	0.462	0.412	0.370	0.336	0.308	0.283	0.263	0.245	0.229	0.215	0.202	29.2
77.1-79.0	95.7- 98.4	2.200	1.416	1.056	0.838	0.690	0.585	0.505	0.444	0.395	0.356	0.323	0.296	0.272	0.252	0.235	0.220	0.206	0.195	29.2
79.1-81.0	98.6-101.3	2.077	1.346	1.008	0.802	0.662	0.561	0.486	0.427	0.380	0.342	0.311	0.285	0.262	0.243	0.226	0.212	0.199	0.187	29.3

12.0 PROVINCIAL NUMBER OF TREES PER CUBIC METRE OF MERCHANTABLE VOLUME TABLES

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 52. Trees/m^3 of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
5.1- 7.0	6.1- 8.0	413.265	241.415	170.215	131.333	106.855	90.036	77.772	68.435	61.092	55.165	50.282	46.190	42.711	39.717	37.114	34.829	32.808	31.008	5.6
7.1- 9.0	8.1- 10.1	159.298	95.270	67.858	52.660	43.006	36.334	31.447	27.715	24.772	22.391	20.427	18.778	17.374	16.165	15.113	14.188	13.370	12.641	7.4
9.1-11.0	10.2- 12.2	96.430	57.711	41.114	31.909	26.060	22.017	19.056	16.795	15.011	13.569	12.378	11.379	10.528	9.795	9.157	8.597	8.101	7.659	9.2
11.1-13.0	12.3- 14.3	66.892	39.910	28.390	22.013	17.967	15.172	13.127	11.566	10.335	9.340	8.520	7.831	7.244	6.739	6.300	5.914	5.572	5.268	10.9
13.1-15.0	14.4- 16.4	49.881	29.641	21.043	16.297	13.290	11.217	9.700	8.544	7.633	6.896	6.289	5.779	5.346	4.972	4.648	4.362	4.110	3.885	12.5
15.1-17.0	16.5- 18.6	38.967	23.059	16.336	12.636	10.296	8.684	7.506	6.609	5.902	5.331	4.861	4.466	4.130	3.841	3.590	3.369	3.174	3.000	14.0
17.1-19.0	18.7- 20.8	31.462	18.542	13.110	10.128	8.245	6.950	6.005	5.285	4.718	4.261	3.884	3.568	3.299	3.068	2.866	2.690	2.534	2.395	15.3
19.1-21.0	20.9- 23.0	26.040	15.288	10.789	8.325	6.772	5.705	4.926	4.334	3.868	3.492	3.182	2.923	2.702	2.512	2.347	2.203	2.075	1.961	16.5
21.1-23.0	23.1- 25.2	21.974	12.857	9.057	6.981	5.674	4.777	4.123	3.626	3.235	2.920	2.661	2.443	2.258	2.099	1.961	1.840	1.733	1.638	17.6
23.1-25.0	25.3- 27.4	18.834	10.985	7.726	5.949	4.832	4.065	3.508	3.084	2.750	2.482	2.261	2.076	1.918	1.783	1.666	1.563	1.471	1.390	18.6
25.1-27.0	27.6- 29.7	16.352	9.510	6.679	5.138	4.170	3.507	3.024	2.658	2.370	2.138	1.947	1.787	1.652	1.535	1.434	1.345	1.266	1.196	19.5
27.1-29.0	29.8- 32.0	14.349	8.325	5.839	4.488	3.640	3.060	2.638	2.317	2.066	1.863	1.697	1.557	1.439	1.337	1.248	1.171	1.102	1.041	20.2
29.1-31.0	32.1- 34.4	12.707	7.357	5.154	3.958	3.208	2.696	2.323	2.040	1.818	1.640	1.493	1.370	1.265	1.176	1.098	1.030	0.969	0.915	20.9
31.1-33.0	34.5- 36.7	11.341	6.554	4.587	3.520	2.852	2.395	2.063	1.811	1.614	1.455	1.324	1.215	1.122	1.043	0.974	0.913	0.859	0.812	21.5
33.1-35.0	36.8- 39.1	10.190	5.880	4.112	3.153	2.554	2.144	1.846	1.620	1.443	1.301	1.184	1.086	1.003	0.932	0.870	0.816	0.768	0.725	22.1
35.1-37.0	39.2- 41.5	9.211	5.308	3.709	2.843	2.301	1.931	1.663	1.459	1.299	1.171	1.065	0.977	0.902	0.838	0.782	0.734	0.690	0.652	22.6
37.1-39.0	41.6- 43.9	8.369	4.818	3.365	2.578	2.086	1.750	1.506	1.321	1.176	1.060	0.964	0.884	0.817	0.758	0.708	0.664	0.624	0.590	23.0
39.1-41.0	44.0- 46.4	7.639	4.395	3.068	2.350	1.901	1.594	1.371	1.203	1.071	0.965	0.877	0.805	0.743	0.690	0.644	0.603	0.568	0.536	23.4
41.1-43.0	46.5- 48.8	7.001	4.026	2.810	2.151	1.740	1.459	1.255	1.100	0.979	0.882	0.802	0.735	0.679	0.630	0.588	0.551	0.519	0.490	23.7
43.1-45.0	49.0- 51.3	6.441	3.703	2.584	1.978	1.599	1.340	1.153	1.011	0.899	0.810	0.736	0.675	0.623	0.579	0.540	0.506	0.476	0.449	24.0
45.1-47.0	51.5- 53.9	5.945	3.418	2.385	1.825	1.475	1.236	1.063	0.932	0.829	0.747	0.679	0.622	0.574	0.533	0.497	0.466	0.438	0.414	24.2
47.1-49.0	54.0- 56.4	5.504	3.165	2.209	1.690	1.366	1.144	0.984	0.862	0.767	0.691	0.628	0.575	0.531	0.493	0.460	0.431	0.405	0.383	24.4
49.1-51.0	56.6- 59.0	5.109	2.939	2.052	1.570	1.269	1.063	0.913	0.800	0.712	0.641	0.583	0.534	0.493	0.457	0.426	0.400	0.376	0.355	24.6
51.1-53.0	59.1- 61.6	4.755	2.737	1.911	1.462	1.182	0.990	0.851	0.745	0.663	0.597	0.542	0.497	0.458	0.425	0.397	0.372	0.350	0.330	24.8
53.1-55.0	61.7- 64.2	4.435	2.555	1.785	1.366	1.104	0.924	0.794	0.696	0.619	0.557	0.506	0.464	0.428	0.397	0.370	0.347	0.326	0.308	25.0
55.1-57.0	64.4- 66.9	4.145	2.391	1.671	1.279	1.033	0.865	0.743	0.651	0.579	0.521	0.474	0.434	0.400	0.371	0.346	0.324	0.305	0.288	25.1
57.1-59.0	67.0- 69.5	3.882	2.241	1.567	1.200	0.970	0.812	0.698	0.611	0.543	0.489	0.444	0.407	0.375	0.348	0.325	0.304	0.286	0.270	25.2
59.1-61.0	69.7- 72.2	3.642	2.106	1.473	1.128	0.912	0.763	0.656	0.574	0.511	0.459	0.417	0.382	0.353	0.327	0.305	0.286	0.269	0.254	25.3
61.1-63.0	72.4- 75.0	3.422	1.982	1.388	1.063	0.859	0.719	0.618	0.541	0.481	0.433	0.393	0.360	0.332	0.308	0.287	0.269	0.253	0.239	25.4
63.1-65.0	75.1- 77.7	3.221	1.868	1.309	1.003	0.811	0.679	0.583	0.511	0.454	0.409	0.371	0.340	0.313	0.291	0.271	0.254	0.239	0.225	25.5
65.1-67.0	77.9- 80.5	3.036	1.763	1.237	0.949	0.767	0.642	0.552	0.483	0.429	0.386	0.351	0.321	0.296	0.275	0.256	0.240	0.226	0.213	25.6
67.1-69.0	80.6- 83.3	2.865	1.667	1.171	0.898	0.726	0.608	0.523	0.458	0.407	0.366	0.332	0.304	0.281	0.260	0.243	0.227	0.214	0.201	25.6
69.1-71.0	83.4- 86.1	2.707	1.579	1.110	0.852	0.689	0.577	0.496	0.434	0.386	0.347	0.315	0.289	0.266	0.247	0.230	0.215	0.203	0.191	25.7
71.1-73.0	86.2- 88.9	2.560	1.496	1.053	0.809	0.655	0.548	0.471	0.413	0.367	0.330	0.299	0.274	0.253	0.234	0.219	0.205	0.192	0.181	25.7
73.1-75.0	89.1- 91.8	2.425	1.420	1.001	0.769	0.623	0.522	0.448	0.392	0.349	0.314	0.285	0.261	0.240	0.223	0.208	0.195	0.183	0.173	25.8
75.1-77.0	92.0- 94.7	2.298	1.350	0.953	0.733	0.593	0.497	0.427	0.374	0.332	0.299	0.271	0.248	0.229	0.212	0.198	0.185	0.174	0.164	25.8
77.1-79.0	94.9- 97.6	2.181	1.284	0.907	0.698	0.565	0.474	0.407	0.357	0.317	0.285	0.259	0.237	0.218	0.203	0.189	0.177	0.166	0.157	25.8
79.1-81.0	97.8-100.6	2.071	1.222	0.865	0.666	0.540	0.453	0.389	0.341	0.303	0.272	0.247	0.226	0.209	0.193	0.180	0.169	0.159	0.150	25.9

Table 53. Trees/m^3 of merchantable volume at 0.30 m stump height and 7.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
7.1- 9.0	8.1- 10.1	328.986	188.337	131.811	101.308	82.226	69.167	59.671	52.456	46.790	42.223	38.464	35.317	32.643	30.344	28.346	26.594	25.044	23.665	7.4
9.1-11.0	10.2- 12.2	121.361	71.261	50.327	38.862	31.634	26.663	23.037	20.276	18.103	16.349	14.904	13.692	12.662	11.775	11.004	10.328	9.729	9.196	9.2
11.1-13.0	12.3- 14.3	75.294	44.425	31.439	24.303	19.797	16.695	14.430	12.704	11.345	10.247	9.343	8.584	7.939	7.384	6.901	6.477	6.102	5.768	10.9
13.1-15.0	14.4- 16.4	53.633	31.629	22.375	17.292	14.082	11.874	10.261	9.033	8.066	7.285	6.641	6.102	5.643	5.248	4.904	4.603	4.336	4.099	12.5
15.1-17.0	16.5- 18.6	40.925	24.080	17.015	13.139	10.695	9.014	7.787	6.853	6.118	5.525	5.036	4.627	4.278	3.978	3.718	3.489	3.286	3.106	14.0
17.1-19.0	18.7- 20.8	32.593	19.124	13.493	10.410	8.468	7.133	6.161	5.420	4.838	4.368	3.980	3.656	3.380	3.143	2.937	2.756	2.596	2.453	15.3
19.1-21.0	20.9- 23.0	26.743	15.645	11.022	8.495	6.906	5.814	5.019	4.414	3.939	3.556	3.240	2.975	2.750	2.557	2.389	2.241	2.111	1.995	16.5
21.1-23.0	23.1- 25.2	22.436	13.088	9.206	7.089	5.759	4.846	4.182	3.677	3.280	2.960	2.697	2.476	2.289	2.127	1.987	1.864	1.756	1.659	17.6
23.1-25.0	25.3- 27.4	19.151	11.142	7.827	6.021	4.888	4.111	3.546	3.117	2.780	2.508	2.284	2.097	1.938	1.801	1.683	1.578	1.486	1.404	18.6
25.1-27.0	27.6- 29.7	16.577	9.621	6.750	5.188	4.209	3.539	3.051	2.681	2.390	2.156	1.963	1.802	1.665	1.548	1.445	1.356	1.276	1.206	19.5
27.1-29.0	29.8- 32.0	14.514	8.405	5.890	4.524	3.668	3.082	2.657	2.333	2.080	1.876	1.708	1.567	1.448	1.346	1.257	1.178	1.109	1.048	20.2
29.1-31.0	32.1- 34.4	12.831	7.416	5.192	3.985	3.229	2.712	2.337	2.052	1.829	1.649	1.501	1.377	1.272	1.182	1.104	1.035	0.974	0.920	20.9
31.1-33.0	34.5- 36.7	11.435	6.599	4.615	3.540	2.867	2.407	2.073	1.820	1.622	1.462	1.331	1.221	1.127	1.047	0.978	0.917	0.863	0.815	21.5
33.1-35.0	36.8- 39.1	10.264	5.915	4.134	3.169	2.565	2.153	1.854	1.627	1.449	1.306	1.189	1.090	1.007	0.935	0.873	0.819	0.771	0.728	22.1
35.1-37.0	39.2- 41.5	9.269	5.336	3.727	2.855	2.311	1.939	1.669	1.464	1.304	1.175	1.069	0.980	0.905	0.841	0.785	0.736	0.693	0.654	22.6
37.1-39.0	41.6- 43.9	8.415	4.840	3.379	2.588	2.093	1.756	1.511	1.325	1.180	1.063	0.967	0.887	0.819	0.760	0.710	0.665	0.626	0.591	23.0
39.1-41.0	44.0- 46.4	7.677	4.413	3.079	2.358	1.906	1.599	1.375	1.206	1.074	0.967	0.880	0.807	0.745	0.691	0.645	0.605	0.569	0.537	23.4
41.1-43.0	46.5- 48.8	7.032	4.041	2.819	2.158	1.744	1.462	1.258	1.103	0.982	0.884	0.804	0.737	0.680	0.632	0.589	0.552	0.520	0.491	23.7
43.1-45.0	49.0- 51.3	6.467	3.715	2.592	1.983	1.603	1.343	1.155	1.013	0.901	0.811	0.738	0.676	0.624	0.580	0.541	0.507	0.477	0.450	24.0
45.1-47.0	51.5- 53.9	5.966	3.428	2.391	1.830	1.479	1.239	1.065	0.934	0.831	0.748	0.680	0.623	0.575	0.534	0.498	0.467	0.439	0.415	24.2
47.1-49.0	54.0- 56.4	5.522	3.173	2.214	1.694	1.369	1.147	0.986	0.864	0.768	0.692	0.629	0.576	0.532	0.494	0.460	0.431	0.406	0.383	24.4
49.1-51.0	56.6- 59.0	5.124	2.947	2.056	1.573	1.271	1.064	0.915	0.802	0.713	0.642	0.583	0.535	0.493	0.458	0.427	0.400	0.376	0.355	24.6
51.1-53.0	59.1- 61.6	4.768	2.743	1.915	1.465	1.184	0.991	0.852	0.746	0.664	0.597	0.543	0.497	0.459	0.426	0.397	0.372	0.350	0.330	24.8
53.1-55.0	61.7- 64.2	4.446	2.560	1.788	1.368	1.105	0.926	0.795	0.697	0.620	0.558	0.507	0.464	0.428	0.397	0.371	0.347	0.327	0.308	25.0
55.1-57.0	64.4- 66.9	4.155	2.395	1.674	1.281	1.035	0.866	0.744	0.652	0.580	0.522	0.474	0.434	0.401	0.372	0.347	0.325	0.305	0.288	25.1
57.1-59.0	67.0- 69.5	3.890	2.245	1.570	1.202	0.971	0.813	0.698	0.612	0.544	0.489	0.445	0.407	0.376	0.348	0.325	0.304	0.286	0.270	25.2
59.1-61.0	69.7- 72.2	3.649	2.109	1.476	1.130	0.913	0.764	0.657	0.575	0.511	0.460	0.418	0.383	0.353	0.327	0.305	0.286	0.269	0.254	25.3
61.1-63.0	72.4- 75.0	3.429	1.985	1.390	1.064	0.860	0.720	0.619	0.542	0.482	0.433	0.394	0.360	0.332	0.308	0.288	0.269	0.253	0.239	25.4
63.1-65.0	75.1- 77.7	3.226	1.871	1.311	1.005	0.812	0.680	0.584	0.511	0.455	0.409	0.371	0.340	0.314	0.291	0.271	0.254	0.239	0.225	25.5
65.1-67.0	77.9- 80.5	3.040	1.766	1.239	0.950	0.768	0.643	0.552	0.484	0.430	0.387	0.351	0.322	0.297	0.275	0.256	0.240	0.226	0.213	25.6
67.1-69.0	80.6- 83.3	2.869	1.669	1.172	0.899	0.727	0.609	0.523	0.458	0.407	0.366	0.333	0.305	0.281	0.260	0.243	0.227	0.214	0.202	25.6
69.1-71.0	83.4- 86.1	2.710	1.581	1.111	0.853	0.690	0.578	0.496	0.435	0.386	0.347	0.315	0.289	0.266	0.247	0.230	0.216	0.203	0.191	25.7
71.1-73.0	86.2- 88.9	2.564	1.498	1.055	0.810	0.655	0.549	0.471	0.413	0.367	0.330	0.300	0.274	0.253	0.235	0.219	0.205	0.192	0.182	25.7
73.1-75.0	89.1- 91.8	2.428	1.422	1.002	0.770	0.623	0.522	0.449	0.393	0.349	0.314	0.285	0.261	0.241	0.223	0.208	0.195	0.183	0.173	25.8
75.1-77.0	92.0- 94.7	2.301	1.351	0.953	0.733	0.593	0.497	0.427	0.374	0.333	0.299	0.272	0.249	0.229	0.213	0.198	0.185	0.174	0.164	25.8
77.1-79.0	94.9- 97.6	2.183	1.285	0.908	0.699	0.566	0.474	0.408	0.357	0.317	0.285	0.259	0.237	0.219	0.203	0.189	0.177	0.166	0.157	25.8
79.1-81.0	97.8-100.6	2.073	1.223	0.866	0.667	0.540	0.453	0.389	0.341	0.303	0.272	0.247	0.226	0.209	0.194	0.180	0.169	0.159	0.150	25.9

ALBERTA LAND AND FOREST SERVICES —— INDIVIDUAL TREE VOLUME TABLE (1994)

Table 54. Trees/m^3 of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.3	135.381	77.515	54.195	41.612	33.745	28.366	24.458	21.490	19.162	17.286	15.743	14.451	13.354	12.412	11.593	10.874	10.240	9.674	10.9
13.1-15.0	14.4- 16.4	70.898	40.947	28.687	22.043	17.883	15.036	12.967	11.396	10.163	9.169	8.352	7.667	7.086	6.586	6.152	5.772	5.435	5.136	12.5
15.1-17.0	16.5- 18.6	48.433	28.087	19.709	15.158	12.304	10.350	8.928	7.848	7.000	6.317	5.754	5.283	4.883	4.539	4.240	3.978	3.746	3.540	14.0
17.1-19.0	18.7- 20.8	36.519	21.197	14.878	11.443	9.289	7.813	6.740	5.924	5.284	4.768	4.343	3.988	3.686	3.426	3.200	3.002	2.827	2.672	15.3
19.1-21.0	20.9- 23.0	29.035	16.843	11.817	9.085	7.373	6.200	5.348	4.700	4.191	3.782	3.445	3.162	2.923	2.716	2.537	2.380	2.241	2.118	16.5
21.1-23.0	23.1- 25.2	23.877	13.834	9.699	7.453	6.046	5.083	4.383	3.851	3.434	3.098	2.821	2.590	2.393	2.224	2.077	1.949	1.835	1.733	17.6
23.1-25.0	25.3- 27.4	20.109	11.633	8.149	6.258	5.075	4.265	3.676	3.229	2.879	2.597	2.364	2.170	2.005	1.863	1.740	1.632	1.537	1.452	18.6
25.1-27.0	27.6- 29.7	17.241	9.959	6.970	5.349	4.335	3.642	3.139	2.757	2.457	2.215	2.017	1.851	1.710	1.589	1.484	1.392	1.310	1.238	19.5
27.1-29.0	29.8- 32.0	14.991	8.646	6.046	4.638	3.757	3.155	2.718	2.386	2.126	1.917	1.745	1.601	1.479	1.374	1.283	1.203	1.133	1.070	20.2
29.1-31.0	32.1- 34.4	13.182	7.592	5.305	4.067	3.293	2.764	2.381	2.090	1.862	1.678	1.528	1.401	1.294	1.203	1.123	1.053	0.991	0.936	20.9
31.1-33.0	34.5- 36.7	11.701	6.731	4.700	3.601	2.915	2.446	2.106	1.848	1.646	1.484	1.350	1.239	1.144	1.062	0.992	0.930	0.875	0.827	21.5
33.1-35.0	36.8- 39.1	10.468	6.016	4.199	3.216	2.602	2.182	1.878	1.648	1.468	1.323	1.203	1.104	1.019	0.947	0.884	0.828	0.780	0.736	22.1
35.1-37.0	39.2- 41.5	9.429	5.415	3.777	2.891	2.338	1.961	1.688	1.480	1.318	1.187	1.080	0.991	0.915	0.849	0.793	0.743	0.699	0.660	22.6
37.1-39.0	41.6- 43.9	8.542	4.903	3.419	2.616	2.115	1.773	1.526	1.338	1.191	1.073	0.976	0.895	0.826	0.767	0.716	0.671	0.631	0.596	23.0
39.1-41.0	44.0- 46.4	7.779	4.463	3.111	2.380	1.924	1.613	1.387	1.216	1.082	0.975	0.887	0.813	0.750	0.697	0.650	0.609	0.573	0.541	23.4
41.1-43.0	46.5- 48.8	7.115	4.082	2.845	2.176	1.758	1.474	1.267	1.111	0.988	0.890	0.809	0.742	0.685	0.636	0.593	0.556	0.523	0.494	23.7
43.1-45.0	49.0- 51.3	6.535	3.749	2.613	1.998	1.614	1.353	1.163	1.019	0.907	0.816	0.742	0.680	0.628	0.583	0.544	0.510	0.480	0.453	24.0
45.1-47.0	51.5- 53.9	6.023	3.456	2.409	1.842	1.488	1.246	1.071	0.939	0.835	0.752	0.684	0.627	0.578	0.537	0.501	0.469	0.441	0.417	24.2
47.1-49.0	54.0- 56.4	5.569	3.197	2.229	1.704	1.376	1.153	0.991	0.868	0.772	0.695	0.632	0.579	0.534	0.496	0.463	0.433	0.408	0.385	24.4
49.1-51.0	56.6- 59.0	5.164	2.966	2.068	1.582	1.277	1.070	0.919	0.805	0.716	0.645	0.586	0.537	0.495	0.460	0.429	0.402	0.378	0.357	24.6
51.1-53.0	59.1- 61.6	4.801	2.760	1.925	1.472	1.189	0.996	0.856	0.749	0.666	0.600	0.545	0.499	0.461	0.428	0.399	0.374	0.351	0.332	24.8
53.1-55.0	61.7- 64.2	4.475	2.575	1.797	1.374	1.110	0.929	0.798	0.699	0.622	0.560	0.508	0.466	0.430	0.399	0.372	0.348	0.328	0.309	25.0
55.1-57.0	64.4- 66.9	4.179	2.407	1.681	1.286	1.039	0.870	0.747	0.654	0.582	0.523	0.476	0.436	0.402	0.373	0.348	0.326	0.306	0.289	25.1
57.1-59.0	67.0- 69.5	3.911	2.256	1.576	1.206	0.974	0.816	0.701	0.614	0.545	0.491	0.446	0.408	0.377	0.349	0.326	0.305	0.287	0.271	25.2
59.1-61.0	69.7- 72.2	3.667	2.118	1.481	1.134	0.916	0.767	0.659	0.577	0.513	0.461	0.419	0.384	0.354	0.328	0.306	0.287	0.270	0.254	25.3
61.1-63.0	72.4- 75.0	3.444	1.993	1.395	1.068	0.863	0.722	0.620	0.543	0.483	0.434	0.395	0.361	0.333	0.309	0.288	0.270	0.254	0.239	25.4
63.1-65.0	75.1- 77.7	3.240	1.878	1.315	1.008	0.814	0.682	0.586	0.513	0.456	0.410	0.372	0.341	0.314	0.292	0.272	0.255	0.239	0.226	25.5
65.1-67.0	77.9- 80.5	3.052	1.772	1.243	0.952	0.770	0.645	0.554	0.485	0.431	0.387	0.352	0.322	0.297	0.276	0.257	0.241	0.226	0.213	25.6
67.1-69.0	80.6- 83.3	2.879	1.675	1.176	0.902	0.729	0.610	0.524	0.459	0.408	0.367	0.333	0.305	0.281	0.261	0.243	0.228	0.214	0.202	25.6
69.1-71.0	83.4- 86.1	2.720	1.585	1.114	0.855	0.691	0.579	0.497	0.435	0.387	0.348	0.316	0.289	0.267	0.247	0.231	0.216	0.203	0.192	25.7
71.1-73.0	86.2- 88.9	2.572	1.502	1.057	0.812	0.657	0.550	0.472	0.414	0.368	0.331	0.300	0.275	0.253	0.235	0.219	0.205	0.193	0.182	25.7
73.1-75.0	89.1- 91.8	2.435	1.426	1.005	0.772	0.624	0.523	0.449	0.393	0.350	0.314	0.286	0.261	0.241	0.223	0.208	0.195	0.183	0.173	25.8
75.1-77.0	92.0- 94.7	2.307	1.354	0.956	0.735	0.595	0.498	0.428	0.375	0.333	0.300	0.272	0.249	0.230	0.213	0.198	0.186	0.175	0.165	25.8
77.1-79.0	94.9- 97.6	2.189	1.288	0.910	0.700	0.567	0.475	0.408	0.358	0.318	0.286	0.259	0.237	0.219	0.203	0.189	0.177	0.166	0.157	25.8
79.1-81.0	97.8-100.6	2.078	1.226	0.868	0.668	0.541	0.454	0.390	0.341	0.303	0.273	0.248	0.227	0.209	0.194	0.181	0.169	0.159	0.150	25.9

Table 55. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
11.1-13.0	12.3- 14.3	262.300	155.622	113.572	90.490	75.671	65.247	57.463	51.403	46.535	42.531	39.175	36.318	33.854	31.706	29.817	28.141	26.644	25.299	10.9
13.1-15.0	14.4- 16.4	86.355	49.478	34.555	26.503	21.475	18.040	15.546	13.654	12.171	10.976	9.994	9.173	8.475	7.876	7.355	6.899	6.495	6.136	12.5
15.1-17.0	16.5- 18.6	53.637	30.906	21.622	16.598	13.457	11.309	9.749	8.565	7.636	6.888	6.272	5.757	5.320	4.945	4.618	4.332	4.079	3.854	14.0
17.1-19.0	18.7- 20.8	38.927	22.487	15.747	12.094	9.808	8.244	7.108	6.245	5.568	5.023	4.575	4.199	3.881	3.607	3.369	3.160	2.976	2.811	15.3
19.1-21.0	20.9- 23.0	30.344	17.538	12.282	9.433	7.649	6.429	5.543	4.870	4.342	3.916	3.567	3.274	3.025	2.812	2.626	2.463	2.319	2.191	16.5
21.1-23.0	23.1- 25.2	24.664	14.248	9.974	7.658	6.209	5.217	4.497	3.950	3.522	3.176	2.892	2.655	2.453	2.280	2.129	1.997	1.880	1.776	17.6
23.1-25.0	25.3- 27.4	20.615	11.898	8.324	6.388	5.177	4.349	3.748	3.292	2.934	2.646	2.409	2.211	2.043	1.898	1.772	1.662	1.565	1.479	18.6
25.1-27.0	27.6- 29.7	17.584	10.136	7.087	5.436	4.404	3.698	3.186	2.798	2.493	2.248	2.046	1.878	1.735	1.612	1.505	1.412	1.329	1.255	19.5
27.1-29.0	29.8- 32.0	15.232	8.770	6.127	4.698	3.804	3.194	2.751	2.415	2.151	1.940	1.765	1.620	1.496	1.390	1.298	1.217	1.146	1.082	20.2
29.1-31.0	32.1- 34.4	13.357	7.682	5.364	4.110	3.327	2.792	2.404	2.110	1.880	1.694	1.542	1.414	1.306	1.214	1.133	1.062	1.000	0.944	20.9
31.1-33.0	34.5- 36.7	11.831	6.798	4.744	3.633	2.940	2.466	2.123	1.863	1.659	1.495	1.361	1.248	1.152	1.070	0.999	0.937	0.882	0.833	21.5
33.1-35.0	36.8- 39.1	10.567	6.067	4.231	3.239	2.620	2.198	1.891	1.659	1.477	1.331	1.211	1.111	1.026	0.953	0.889	0.834	0.784	0.741	22.1
35.1-37.0	39.2- 41.5	9.506	5.454	3.802	2.910	2.353	1.973	1.697	1.489	1.325	1.194	1.086	0.996	0.920	0.854	0.797	0.747	0.703	0.664	22.6
37.1-39.0	41.6- 43.9	8.603	4.933	3.438	2.631	2.126	1.782	1.533	1.344	1.197	1.078	0.980	0.899	0.830	0.771	0.719	0.674	0.634	0.599	23.0
39.1-41.0	44.0- 46.4	7.827	4.487	3.127	2.392	1.933	1.620	1.393	1.221	1.087	0.979	0.890	0.816	0.753	0.699	0.653	0.612	0.576	0.543	23.4
41.1-43.0	46.5- 48.8	7.155	4.101	2.858	2.185	1.766	1.479	1.272	1.115	0.992	0.893	0.812	0.745	0.687	0.638	0.595	0.558	0.525	0.496	23.7
43.1-45.0	49.0- 51.3	6.567	3.765	2.623	2.006	1.620	1.357	1.167	1.023	0.910	0.819	0.745	0.683	0.630	0.585	0.546	0.511	0.481	0.454	24.0
45.1-47.0	51.5- 53.9	6.049	3.469	2.417	1.848	1.493	1.250	1.075	0.942	0.838	0.754	0.685	0.628	0.580	0.538	0.502	0.470	0.442	0.418	24.2
47.1-49.0	54.0- 56.4	5.591	3.208	2.236	1.709	1.380	1.156	0.993	0.870	0.774	0.697	0.633	0.580	0.536	0.497	0.464	0.434	0.409	0.386	24.4
49.1-51.0	56.6- 59.0	5.182	2.975	2.074	1.586	1.281	1.072	0.921	0.807	0.718	0.646	0.587	0.538	0.496	0.461	0.430	0.403	0.379	0.357	24.6
51.1-53.0	59.1- 61.6	4.817	2.768	1.930	1.476	1.192	0.998	0.857	0.751	0.668	0.601	0.546	0.500	0.462	0.428	0.399	0.374	0.352	0.332	24.8
53.1-55.0	61.7- 64.2	4.488	2.581	1.801	1.378	1.112	0.931	0.800	0.701	0.623	0.561	0.509	0.467	0.430	0.399	0.372	0.349	0.328	0.310	25.0
55.1-57.0	64.4- 66.9	4.190	2.413	1.685	1.289	1.041	0.871	0.748	0.655	0.583	0.524	0.476	0.436	0.402	0.373	0.348	0.326	0.307	0.289	25.1
57.1-59.0	67.0- 69.5	3.921	2.261	1.580	1.209	0.976	0.817	0.702	0.615	0.546	0.492	0.447	0.409	0.377	0.350	0.326	0.306	0.287	0.271	25.2
59.1-61.0	69.7- 72.2	3.676	2.122	1.484	1.136	0.917	0.768	0.660	0.578	0.513	0.462	0.420	0.384	0.354	0.329	0.307	0.287	0.270	0.255	25.3
61.1-63.0	72.4- 75.0	3.452	1.996	1.397	1.070	0.864	0.723	0.621	0.544	0.483	0.435	0.395	0.362	0.334	0.309	0.289	0.270	0.254	0.240	25.4
63.1-65.0	75.1- 77.7	3.246	1.881	1.317	1.009	0.815	0.683	0.586	0.513	0.456	0.410	0.373	0.341	0.315	0.292	0.272	0.255	0.240	0.226	25.5
65.1-67.0	77.9- 80.5	3.058	1.775	1.245	0.954	0.771	0.645	0.554	0.485	0.431	0.388	0.352	0.323	0.297	0.276	0.257	0.241	0.226	0.214	25.6
67.1-69.0	80.6- 83.3	2.884	1.677	1.177	0.903	0.730	0.611	0.525	0.460	0.408	0.367	0.334	0.305	0.282	0.261	0.243	0.228	0.214	0.202	25.6
69.1-71.0	83.4- 86.1	2.724	1.588	1.116	0.856	0.692	0.580	0.498	0.436	0.387	0.348	0.316	0.290	0.267	0.248	0.231	0.216	0.203	0.192	25.7
71.1-73.0	86.2- 88.9	2.576	1.504	1.059	0.813	0.657	0.551	0.473	0.414	0.368	0.331	0.300	0.275	0.254	0.235	0.219	0.205	0.193	0.182	25.7
73.1-75.0	89.1- 91.8	2.438	1.427	1.006	0.773	0.625	0.524	0.450	0.394	0.350	0.315	0.286	0.262	0.241	0.224	0.208	0.195	0.183	0.173	25.8
75.1-77.0	92.0- 94.7	2.310	1.356	0.957	0.735	0.595	0.499	0.428	0.375	0.333	0.300	0.272	0.249	0.230	0.213	0.199	0.186	0.175	0.165	25.8
77.1-79.0	94.9- 97.6	2.191	1.289	0.911	0.701	0.567	0.476	0.409	0.358	0.318	0.286	0.260	0.238	0.219	0.203	0.189	0.177	0.167	0.157	25.8
79.1-81.0	97.8-100.6	2.081	1.227	0.868	0.669	0.542	0.454	0.390	0.342	0.304	0.273	0.248	0.227	0.209	0.194	0.181	0.169	0.159	0.150	25.9

Table 56. Trees/m³ of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
13.1-15.0	14.4- 16.4	237.097	147.182	112.384	93.016	80.179	70.787	63.489	57.597	52.713	48.586	45.049	41.981	39.294	36.923	34.814	32.926	31.228	29.692	12.5
15.1-17.0	16.5- 18.6	76.723	43.865	30.638	23.504	19.047	16.000	13.788	12.110	10.793	9.733	8.862	8.133	7.514	6.982	6.520	6.115	5.757	5.439	14.0
17.1-19.0	18.7- 20.8	47.398	27.114	18.902	14.477	11.717	9.834	8.469	7.435	6.624	5.971	5.435	4.987	4.607	4.280	3.996	3.748	3.528	3.333	15.3
19.1-21.0	20.9- 23.0	34.471	19.763	13.786	10.562	8.550	7.177	6.181	5.427	4.835	4.359	3.968	3.641	3.363	3.125	2.918	2.737	2.576	2.434	16.5
21.1-23.0	23.1- 25.2	26.991	15.491	10.809	8.282	6.705	5.628	4.847	4.256	3.792	3.418	3.112	2.855	2.637	2.450	2.288	2.146	2.020	1.908	17.6
23.1-25.0	25.3- 27.4	22.053	12.660	8.833	6.767	5.478	4.598	3.960	3.476	3.097	2.792	2.541	2.331	2.153	2.001	1.868	1.752	1.649	1.558	18.6
25.1-27.0	27.6- 29.7	18.530	10.634	7.418	5.682	4.598	3.859	3.322	2.916	2.598	2.342	2.131	1.955	1.806	1.678	1.566	1.469	1.383	1.306	19.5
27.1-29.0	29.8- 32.0	15.884	9.111	6.354	4.865	3.936	3.302	2.843	2.495	2.222	2.003	1.822	1.672	1.544	1.434	1.339	1.255	1.182	1.116	20.2
29.1-31.0	32.1- 34.4	13.823	7.925	5.524	4.228	3.420	2.869	2.469	2.166	1.929	1.738	1.582	1.451	1.340	1.244	1.162	1.089	1.025	0.968	20.9
31.1-33.0	34.5- 36.7	12.174	6.976	4.861	3.719	3.007	2.522	2.170	1.903	1.695	1.527	1.389	1.274	1.177	1.093	1.020	0.956	0.900	0.850	21.5
33.1-35.0	36.8- 39.1	10.826	6.200	4.319	3.304	2.671	2.239	1.926	1.689	1.504	1.355	1.232	1.130	1.043	0.969	0.904	0.848	0.798	0.753	22.1
35.1-37.0	39.2- 41.5	9.705	5.556	3.869	2.959	2.391	2.004	1.724	1.511	1.345	1.212	1.102	1.011	0.933	0.866	0.808	0.758	0.713	0.673	22.6
37.1-39.0	41.6- 43.9	8.758	5.013	3.491	2.669	2.156	1.807	1.554	1.362	1.212	1.092	0.993	0.910	0.840	0.780	0.728	0.682	0.642	0.606	23.0
39.1-41.0	44.0- 46.4	7.951	4.551	3.168	2.422	1.956	1.639	1.409	1.235	1.099	0.990	0.900	0.825	0.761	0.707	0.659	0.618	0.582	0.549	23.4
41.1-43.0	46.5- 48.8	7.254	4.152	2.891	2.209	1.784	1.494	1.285	1.126	1.002	0.902	0.820	0.752	0.694	0.644	0.601	0.563	0.530	0.500	23.7
43.1-45.0	49.0- 51.3	6.647	3.806	2.650	2.025	1.635	1.369	1.177	1.031	0.917	0.826	0.751	0.688	0.635	0.589	0.550	0.515	0.485	0.458	24.0
45.1-47.0	51.5- 53.9	6.115	3.503	2.439	1.864	1.505	1.260	1.083	0.949	0.844	0.760	0.690	0.633	0.584	0.542	0.506	0.474	0.446	0.421	24.2
47.1-49.0	54.0- 56.4	5.646	3.236	2.254	1.722	1.391	1.164	1.000	0.876	0.779	0.701	0.637	0.584	0.539	0.500	0.467	0.437	0.411	0.388	24.4
49.1-51.0	56.6- 59.0	5.228	2.999	2.090	1.597	1.289	1.079	0.927	0.812	0.722	0.650	0.591	0.541	0.499	0.463	0.432	0.405	0.381	0.359	24.6
51.1-53.0	59.1- 61.6	4.855	2.788	1.943	1.485	1.199	1.004	0.862	0.755	0.671	0.604	0.549	0.503	0.464	0.430	0.401	0.376	0.354	0.334	24.8
53.1-55.0	61.7- 64.2	4.520	2.598	1.812	1.385	1.118	0.936	0.804	0.704	0.626	0.563	0.512	0.469	0.432	0.401	0.374	0.350	0.330	0.311	25.0
55.1-57.0	64.4- 66.9	4.218	2.427	1.694	1.296	1.046	0.875	0.752	0.658	0.585	0.527	0.478	0.438	0.404	0.375	0.350	0.328	0.308	0.291	25.1
57.1-59.0	67.0- 69.5	3.945	2.273	1.588	1.214	0.981	0.821	0.705	0.617	0.549	0.493	0.448	0.411	0.379	0.351	0.328	0.307	0.288	0.272	25.2
59.1-61.0	69.7- 72.2	3.696	2.133	1.491	1.141	0.921	0.771	0.662	0.580	0.515	0.464	0.421	0.386	0.356	0.330	0.308	0.288	0.271	0.256	25.3
61.1-63.0	72.4- 75.0	3.469	2.005	1.403	1.074	0.867	0.726	0.624	0.546	0.485	0.436	0.396	0.363	0.335	0.310	0.289	0.271	0.255	0.240	25.4
63.1-65.0	75.1- 77.7	3.262	1.889	1.323	1.013	0.818	0.685	0.588	0.515	0.458	0.412	0.374	0.342	0.316	0.293	0.273	0.256	0.240	0.227	25.5
65.1-67.0	77.9- 80.5	3.071	1.782	1.249	0.957	0.773	0.647	0.556	0.487	0.433	0.389	0.353	0.323	0.298	0.277	0.258	0.241	0.227	0.214	25.6
67.1-69.0	80.6- 83.3	2.896	1.684	1.182	0.906	0.732	0.613	0.526	0.461	0.409	0.368	0.334	0.306	0.282	0.262	0.244	0.229	0.215	0.203	25.6
69.1-71.0	83.4- 86.1	2.734	1.593	1.119	0.859	0.694	0.581	0.499	0.437	0.388	0.349	0.317	0.290	0.268	0.248	0.231	0.217	0.204	0.192	25.7
71.1-73.0	86.2- 88.9	2.585	1.509	1.062	0.815	0.659	0.552	0.474	0.415	0.369	0.332	0.301	0.276	0.254	0.236	0.220	0.206	0.193	0.182	25.7
73.1-75.0	89.1- 91.8	2.446	1.432	1.009	0.775	0.627	0.525	0.451	0.395	0.351	0.315	0.286	0.262	0.242	0.224	0.209	0.196	0.184	0.173	25.8
75.1-77.0	92.0- 94.7	2.317	1.360	0.959	0.737	0.597	0.500	0.429	0.376	0.334	0.300	0.273	0.250	0.230	0.213	0.199	0.186	0.175	0.165	25.8
77.1-79.0	94.9- 97.6	2.198	1.293	0.913	0.703	0.569	0.477	0.409	0.359	0.319	0.286	0.260	0.238	0.219	0.203	0.190	0.178	0.167	0.157	25.8
79.1-81.0	97.8-100.6	2.086	1.230	0.871	0.670	0.543	0.455	0.391	0.342	0.304	0.273	0.248	0.227	0.209	0.194	0.181	0.169	0.159	0.150	25.9

Table 57. Trees/m^3 of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: BALSAM FIR/ALPINE FIR
NATURAL REGIONS: ALL (PROVINCIAL)

DBHOB (cm)	STUMP DOB (cm)	TOTAL TREE HEIGHT (m) 3.1-5.0	5.1-7.0	7.1-9.0	9.1-11.0	11.1-13.0	13.1-15.0	15.1-17.0	17.1-19.0	19.1-21.0	21.1-23.0	23.1-25.0	25.1-27.0	27.1-29.0	29.1-31.0	31.1-33.0	33.1-35.0	35.1-37.0	37.1-39.0	Predicted HT (m)
15.1-17.0	16.5- 18.6	210.523	137.162	109.691	94.068	83.085	74.504	67.458	61.530	56.472	52.113	48.327	45.013	42.095	39.510	37.206	35.142	33.284	31.604	14.0
17.1-19.0	18.7- 20.8	69.208	39.779	27.933	21.514	17.485	14.721	12.707	11.175	9.971	8.999	8.200	7.530	6.960	6.470	6.045	5.671	5.341	5.047	15.3
19.1-21.0	20.9- 23.0	42.623	24.304	16.920	12.946	10.470	8.781	7.558	6.631	5.905	5.322	4.843	4.442	4.102	3.810	3.557	3.335	3.139	2.965	16.5
21.1-23.0	23.1- 25.2	31.023	17.697	12.313	9.416	7.612	6.383	5.493	4.819	4.291	3.867	3.518	3.227	2.980	2.768	2.584	2.423	2.280	2.154	17.6
23.1-25.0	25.3- 27.4	24.358	13.907	9.677	7.400	5.983	5.016	4.317	3.787	3.372	3.039	2.765	2.536	2.342	2.175	2.031	1.904	1.792	1.692	18.6
25.1-27.0	27.6- 29.7	19.971	11.408	7.939	6.071	4.907	4.115	3.541	3.106	2.765	2.492	2.267	2.079	1.920	1.783	1.665	1.561	1.469	1.387	19.5
27.1-29.0	29.8- 32.0	16.843	9.623	6.696	5.120	4.138	3.469	2.985	2.618	2.331	2.100	1.911	1.752	1.618	1.503	1.403	1.315	1.238	1.169	20.2
29.1-31.0	32.1- 34.4	14.491	8.279	5.761	4.404	3.559	2.983	2.566	2.251	2.004	1.805	1.642	1.506	1.390	1.291	1.205	1.130	1.063	1.004	20.9
31.1-33.0	34.5- 36.7	12.656	7.230	5.030	3.845	3.106	2.603	2.239	1.963	1.748	1.574	1.432	1.313	1.212	1.126	1.051	0.985	0.927	0.875	21.5
33.1-35.0	36.8- 39.1	11.183	6.389	4.444	3.396	2.743	2.299	1.977	1.733	1.542	1.389	1.263	1.158	1.069	0.993	0.927	0.869	0.817	0.772	22.1
35.1-37.0	39.2- 41.5	9.976	5.699	3.963	3.028	2.446	2.049	1.762	1.544	1.374	1.238	1.125	1.032	0.952	0.884	0.825	0.773	0.728	0.687	22.6
37.1-39.0	41.6- 43.9	8.968	5.123	3.563	2.722	2.198	1.841	1.583	1.387	1.234	1.111	1.010	0.926	0.855	0.794	0.741	0.694	0.653	0.617	23.0
39.1-41.0	44.0- 46.4	8.115	4.637	3.225	2.464	1.989	1.666	1.432	1.255	1.116	1.005	0.914	0.837	0.773	0.717	0.669	0.627	0.590	0.557	23.4
41.1-43.0	46.5- 48.8	7.385	4.221	2.936	2.243	1.810	1.516	1.303	1.141	1.015	0.914	0.831	0.761	0.703	0.652	0.608	0.570	0.536	0.506	23.7
43.1-45.0	49.0- 51.3	6.753	3.862	2.687	2.052	1.656	1.387	1.191	1.044	0.928	0.836	0.759	0.696	0.642	0.596	0.556	0.521	0.490	0.463	24.0
45.1-47.0	51.5- 53.9	6.202	3.548	2.469	1.886	1.522	1.274	1.095	0.959	0.853	0.767	0.697	0.639	0.590	0.547	0.510	0.478	0.450	0.425	24.2
47.1-49.0	54.0- 56.4	5.717	3.273	2.279	1.740	1.405	1.176	1.010	0.885	0.786	0.708	0.643	0.589	0.544	0.505	0.471	0.441	0.415	0.391	24.4
49.1-51.0	56.6- 59.0	5.287	3.030	2.110	1.612	1.301	1.089	0.935	0.819	0.728	0.655	0.595	0.545	0.503	0.467	0.435	0.408	0.384	0.362	24.6
51.1-53.0	59.1- 61.6	4.905	2.814	1.960	1.498	1.209	1.012	0.869	0.761	0.676	0.609	0.553	0.506	0.467	0.433	0.404	0.379	0.356	0.336	24.8
53.1-55.0	61.7- 64.2	4.562	2.620	1.827	1.396	1.127	0.943	0.810	0.709	0.630	0.567	0.515	0.472	0.435	0.404	0.376	0.353	0.332	0.313	25.0
55.1-57.0	64.4- 66.9	4.254	2.446	1.707	1.305	1.053	0.881	0.757	0.662	0.589	0.530	0.481	0.441	0.406	0.377	0.352	0.329	0.310	0.292	25.1
57.1-59.0	67.0- 69.5	3.975	2.289	1.598	1.222	0.987	0.826	0.709	0.621	0.552	0.496	0.451	0.413	0.381	0.353	0.329	0.308	0.290	0.274	25.2
59.1-61.0	69.7- 72.2	3.722	2.147	1.500	1.148	0.926	0.775	0.666	0.583	0.518	0.466	0.423	0.387	0.357	0.331	0.309	0.289	0.272	0.257	25.3
61.1-63.0	72.4- 75.0	3.491	2.017	1.411	1.080	0.872	0.730	0.627	0.548	0.487	0.438	0.398	0.365	0.336	0.312	0.291	0.272	0.256	0.241	25.4
63.1-65.0	75.1- 77.7	3.281	1.899	1.330	1.018	0.822	0.688	0.591	0.517	0.460	0.413	0.375	0.344	0.317	0.294	0.274	0.257	0.241	0.228	25.5
65.1-67.0	77.9- 80.5	3.088	1.791	1.255	0.961	0.777	0.650	0.558	0.489	0.434	0.390	0.355	0.325	0.299	0.278	0.259	0.242	0.228	0.215	25.6
67.1-69.0	80.6- 83.3	2.910	1.692	1.187	0.910	0.735	0.615	0.528	0.463	0.411	0.370	0.336	0.307	0.283	0.263	0.245	0.229	0.216	0.203	25.6
69.1-71.0	83.4- 86.1	2.747	1.600	1.124	0.862	0.697	0.583	0.501	0.438	0.390	0.350	0.318	0.291	0.268	0.249	0.232	0.217	0.204	0.193	25.7
71.1-73.0	86.2- 88.9	2.596	1.515	1.066	0.818	0.661	0.554	0.476	0.416	0.370	0.333	0.302	0.276	0.255	0.236	0.220	0.206	0.194	0.183	25.7
73.1-75.0	89.1- 91.8	2.456	1.437	1.012	0.777	0.629	0.527	0.452	0.396	0.352	0.316	0.287	0.263	0.242	0.225	0.209	0.196	0.184	0.174	25.8
75.1-77.0	92.0- 94.7	2.326	1.365	0.962	0.740	0.599	0.501	0.431	0.377	0.335	0.301	0.273	0.250	0.231	0.214	0.199	0.187	0.175	0.165	25.8
77.1-79.0	94.9- 97.6	2.205	1.297	0.916	0.705	0.570	0.478	0.411	0.359	0.319	0.287	0.261	0.239	0.220	0.204	0.190	0.178	0.167	0.158	25.8
79.1-81.0	97.8-100.6	2.093	1.234	0.873	0.672	0.544	0.456	0.392	0.343	0.305	0.274	0.249	0.228	0.210	0.195	0.181	0.170	0.160	0.151	25.9

Appendix 1.

List of Natural Regions of Alberta

Natural region 1 — Central mixedwood

Natural region 2 — Dry mixedwood

Natural region 3 — Wetland mixedwood

Natural region 4 — Sub-Arctic

Natural region 5 — Peace River Lowlands

Natural region 6 — Boreal Highlands

Natural region 7 — Alpine

Natural region 8 — Sub-Alpine

Natural region 9 — Montane

Natural region 10 — Upper Foothills

Natural region 11 — Lower Foothills

Natural region 12 — Athabasca Plain

Natural region 13 — Kazan Upland

Natural region 14 — Foothills Parkland

Natural region 15 — Peace River Parkland

Natural region 16 — Central Parkland

Natural region 17 — Dry mixedgrass

Natural region 18 — Foothills Fescue

Natural region 19 — Northern Fescue

Natural region 20 — Mixedgrass

Appendix 2.

List of Major Alberta Tree Species and Their Species Code

SPECIES	SPECIES CODE	SCIENTIFIC NAME
White spruce	Sw	*Picea glauca* (Moench) Voss
Tamarack	Lt	*Larix laricina* (Du Roi) K. Koch
Engelmann spruce	Se	*Picea engelmannii* Parry ex Engelm.
Lodgepole pine	Pl	*Pinus contorta* var. *latifolia* Engelm.
Jack pine	Pj	*Pinus banksiana* Lamb.
Aspen	Aw	*Populus tremuloides* Michx.
White birch	Bw	*Betula papyrifera* Marsh.
Balsam poplar	Pb	*Populus balsamifera* L.
Black spruce	Sb	*Picea mariana* (Mill.) B.S.P.
Balsam fir	Fb	*Abies balsamea* (L.) Mill.
Alpine fir	Fa	*Abies lasiocarpa* (Hook.) Nutt.
Douglas-fir	Fd	*Pseudotsuga menziesii* (Mirb.) Franco

Appendix 3.

Metric Conversion Chart

1 cm	= 0.39370 in.
1 m	= 3.28083 ft.
1 ha	= 2.47105 acres
1 m^2	= 10.76385 sq. ft.
1 m^3	= 35.31435 cu. ft
1 km	= 0.62137 miles
1 m^2/ha	= 4.3560 sq. ft/acre
1 m^3/ha	= 14.2913 cu. ft/acre
1 in.	= 2.5400 cm
1 ft.	= 0.3048 m
1 acre	= 0.4047 ha
1 sq. ft.	= 0.09290 m^2
1 cu. ft.	= 0.02832 m^3
1 mile	= 1.6093 km
1 fbm	= 1 ft. × 1 ft. × 1 in.
1 Mfbm	= 1000 foot board measure (fbm)
1 m^3 log	≈ 233 board feet lumber (provincial average conversion factor)
1 Mfbm	≈ 4.3 m^3 log (provincial average conversion factor)