Ecologically Based Individual Tree Volume Estimation for Major Alberta Tree Species

Report # 5

Ecologically Based Individual Tree Volume Tables for

White Spruce (*Picea glauca* (Moench) Voss)

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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 white spruce (*Picea glauca* (Moench) Voss) 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 actual functions. Assistance with re-creating similar tables is available upon request.

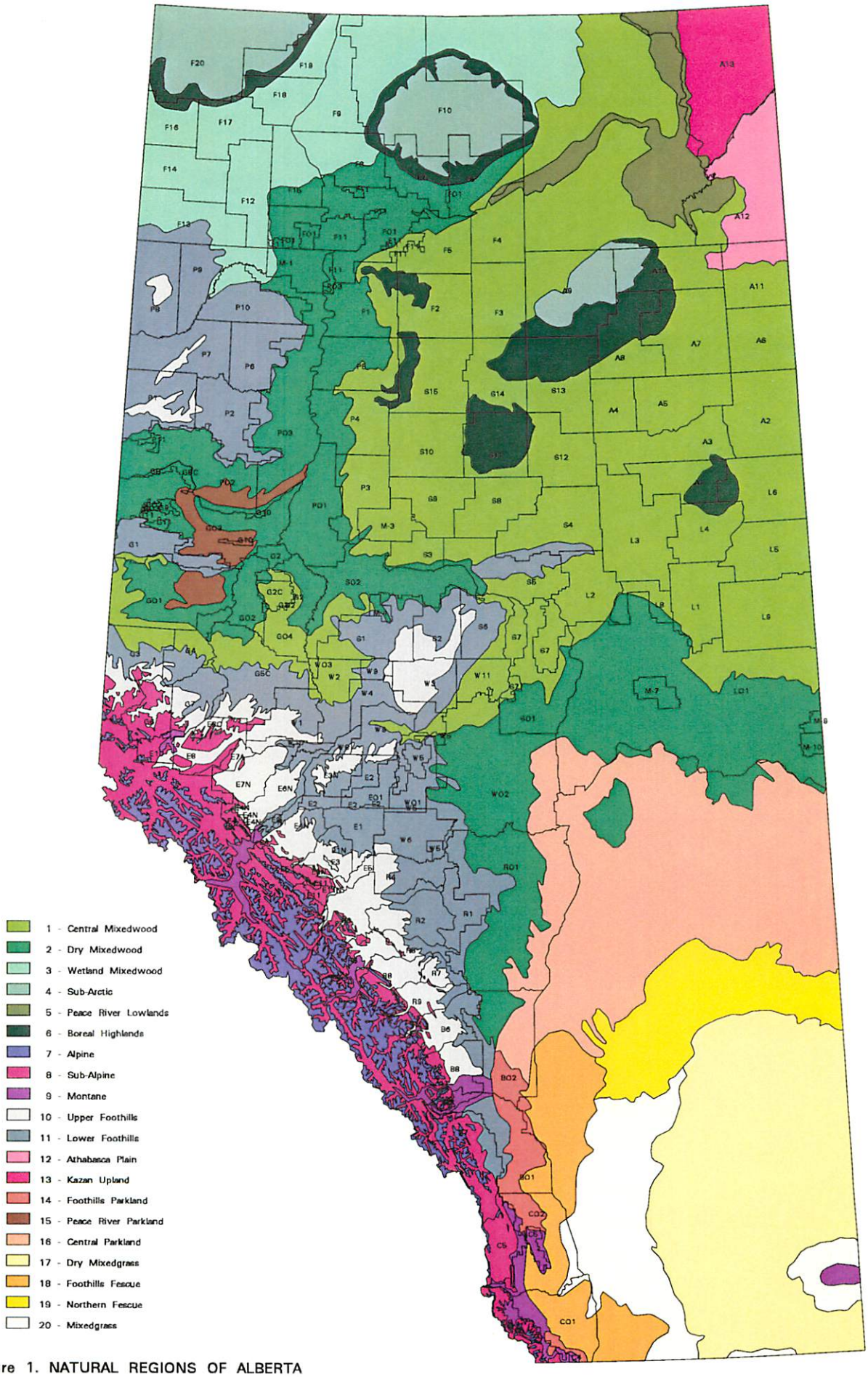

Figure 1. NATURAL REGIONS OF ALBERTA

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 20.8 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 33.7 cm and 35.9 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 37.1 cm and 39.0 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 18.8 m, the gross total volume of the tree from

Table 1 is 0.5063 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 20.8 m. The gross total cubic metre volume of the tree from Table 1 is 0.5661 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 15.0 m, the gross total volume of the tree from Table 1 is 0.1792 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 15.5 m, and the gross total volume of the tree from Table 1 is 0.2063 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 14.5 m, from the merchantable length table for 11.0 cm top dib (Table 32), a 35.0 stump diameter tree has a merchantable length of 14.39 m at height between 19.1 and 21.0. Hence, predicted total tree height from Table 32 is approximately between 19.1 and 21.0 m. From the stump diameter and predicted tree height, a merchantable volume of 0.5208 m^3 is read from the corresponding merchantable volume table (Table 8). Therefore this log has 0.5208 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: WHITE SPRUCE
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)
3.1- 5.0	1.8- 4.2	0.0018	0.0028	0.0037	0.0047	0.0056	0.0066	0.0076	0.0085	0.0095	0.0105	0.0114	0.0124	0.0134	0.0143	0.0153	0.0163	0.0173	0.0182	4.2
5.1- 7.0	4.4- 6.7	0.0042	0.0065	0.0088	0.0110	0.0133	0.0156	0.0179	0.0203	0.0226	0.0249	0.0272	0.0295	0.0318	0.0341	0.0365	0.0388	0.0411	0.0434	5.8
7.1- 9.0	6.9- 9.2	0.0075	0.0117	0.0158	0.0200	0.0242	0.0284	0.0327	0.0369	0.0411	0.0453	0.0496	0.0538	0.0580	0.0623	0.0665	0.0708	0.0750	0.0793	7.3
9.1-11.0	9.4- 11.7	0.0118	0.0184	0.0250	0.0316	0.0383	0.0450	0.0516	0.0583	0.0651	0.0718	0.0785	0.0852	0.0920	0.0987	0.1055	0.1122	0.1190	0.1257	8.8
11.1-13.0	11.9- 14.2	0.0169	0.0264	0.0360	0.0457	0.0554	0.0651	0.0748	0.0846	0.0943	0.1041	0.1139	0.1237	0.1335	0.1433	0.1531	0.1629	0.1728	0.1826	10.2
13.1-15.0	14.3- 16.7	0.0230	0.0359	0.0490	0.0622	0.0754	0.0887	0.1020	0.1153	0.1287	0.1421	0.1555	0.1689	0.1823	0.1958	0.2092	0.2227	0.2362	0.2496	11.6
15.1-17.0	16.8- 19.1	0.0299	0.0467	0.0638	0.0810	0.0983	0.1157	0.1331	0.1506	0.1681	0.1856	0.2032	0.2207	0.2383	0.2559	0.2736	0.2912	0.3089	0.3265	13.0
17.1-19.0	19.2- 21.6	0.0376	0.0588	0.0803	0.1020	0.1239	0.1459	0.1679	0.1900	0.2122	0.2344	0.2566	0.2789	0.3012	0.3235	0.3458	0.3681	0.3905	0.4129	14.2
19.1-21.0	21.7- 24.0	0.0462	0.0721	0.0985	0.1252	0.1521	0.1792	0.2063	0.2336	0.2609	0.2882	0.3157	0.3431	0.3706	0.3981	0.4256	0.4532	0.4808	0.5084	15.5
21.1-23.0	24.1- 26.4	0.0556	0.0866	0.1183	0.1505	0.1829	0.2155	0.2482	0.2810	0.3140	0.3470	0.3800	0.4131	0.4463	0.4795	0.5127	0.5460	0.5793	0.6126	16.6
23.1-25.0	26.5- 28.8	0.0658	0.1024	0.1397	0.1777	0.2160	0.2545	0.2933	0.3322	0.3712	0.4103	0.4495	0.4887	0.5280	0.5674	0.6068	0.6462	0.6857	0.7252	17.8
25.1-27.0	28.9- 31.2	0.0769	0.1193	0.1627	0.2068	0.2514	0.2963	0.3415	0.3869	0.4324	0.4781	0.5238	0.5696	0.6155	0.6615	0.7075	0.7536	0.7997	0.8459	18.8
27.1-29.0	31.3- 33.6	0.0888	0.1373	0.1871	0.2377	0.2890	0.3407	0.3927	0.4450	0.4974	0.5500	0.6028	0.6556	0.7085	0.7615	0.8146	0.8677	0.9209	0.9741	19.8
29.1-31.0	33.7- 35.9	0.1016	0.1565	0.2129	0.2704	0.3287	0.3875	0.4468	0.5063	0.5661	0.6260	0.6861	0.7463	0.8067	0.8671	0.9276	0.9882	1.0489	1.1096	20.8
31.1-33.0	36.0- 38.3	0.1153	0.1768	0.2401	0.3048	0.3704	0.4367	0.5035	0.5707	0.6381	0.7058	0.7736	0.8416	0.9098	0.9780	1.0464	1.1149	1.1834	1.2520	21.8
33.1-35.0	38.4- 40.6	0.1299	0.1982	0.2686	0.3407	0.4140	0.4881	0.5628	0.6379	0.7134	0.7891	0.8650	0.9412	1.0175	1.0940	1.1706	1.2472	1.3240	1.4009	22.6
35.1-37.0	40.7- 42.9	0.1454	0.2206	0.2985	0.3783	0.4595	0.5416	0.6245	0.7079	0.7917	0.8758	0.9602	1.0449	1.1297	1.2147	1.2998	1.3851	1.4705	1.5560	23.5
37.1-39.0	43.1- 45.3	0.1618	0.2442	0.3296	0.4173	0.5067	0.5971	0.6885	0.7804	0.8729	0.9657	1.0589	1.1523	1.2460	1.3399	1.4339	1.5281	1.6224	1.7168	24.3
39.1-41.0	45.4- 47.6	0.1792	0.2689	0.3620	0.4578	0.5555	0.6546	0.7547	0.8555	0.9568	1.0587	1.1609	1.2634	1.3662	1.4693	1.5725	1.6759	1.7794	1.8831	25.1
41.1-43.0	47.7- 49.8	0.1975	0.2947	0.3956	0.4997	0.6060	0.7139	0.8229	0.9328	1.0434	1.1545	1.2660	1.3779	1.4901	1.6026	1.7153	1.8282	1.9413	2.0546	25.8
43.1-45.0	50.0- 52.1	0.2169	0.3216	0.4304	0.5429	0.6580	0.7749	0.8931	1.0123	1.1323	1.2529	1.3740	1.4956	1.6175	1.7397	1.8621	1.9848	2.1078	2.2308	26.5
45.1-47.0	52.2- 54.4	0.2374	0.3496	0.4664	0.5875	0.7115	0.8375	0.9651	1.0939	1.2235	1.3539	1.4848	1.6162	1.7480	1.8802	2.0127	2.1454	2.2784	2.4116	27.1
47.1-49.0	54.5- 56.6	0.2589	0.3787	0.5036	0.6333	0.7664	0.9018	1.0389	1.1774	1.3169	1.4572	1.5981	1.7396	1.8816	2.0240	2.1667	2.3097	2.4530	2.5965	27.8
49.1-51.0	56.7- 58.9	0.2815	0.4089	0.5420	0.6804	0.8226	0.9675	1.1143	1.2627	1.4122	1.5626	1.7138	1.8656	2.0180	2.1707	2.3239	2.4774	2.6312	2.7853	28.4
51.1-53.0	59.0- 61.1	0.3053	0.4402	0.5815	0.7287	0.8801	1.0346	1.1913	1.3497	1.5094	1.6701	1.8317	1.9940	2.1569	2.3203	2.4841	2.6483	2.8128	2.9777	28.9
53.1-55.0	61.2- 63.3	0.3302	0.4727	0.6221	0.7781	0.9389	1.1031	1.2697	1.4383	1.6083	1.7795	1.9517	2.1246	2.2982	2.4724	2.6470	2.8221	2.9976	3.1734	29.5
55.1-57.0	63.4- 65.5	0.3564	0.5064	0.6639	0.8287	0.9989	1.1728	1.3496	1.5284	1.7089	1.8907	2.0735	2.2573	2.4418	2.6269	2.8125	2.9986	3.1852	3.3721	30.0
57.1-59.0	65.6- 67.7	0.3839	0.5412	0.7067	0.8804	1.0600	1.2438	1.4307	1.6199	1.8109	2.0035	2.1971	2.3918	2.5873	2.7835	2.9803	3.1776	3.3754	3.5736	30.5
59.1-61.0	67.8- 69.9	0.4126	0.5772	0.7507	0.9332	1.1222	1.3159	1.5130	1.7127	1.9144	2.1177	2.3223	2.5281	2.7347	2.9421	3.1502	3.3588	3.5680	3.7776	30.9
61.1-63.0	70.0- 72.0	0.4427	0.6144	0.7958	0.9871	1.1855	1.3891	1.5965	1.8067	2.0191	2.2333	2.4490	2.6659	2.8838	3.1025	3.3219	3.5420	3.7627	3.9839	31.4
63.1-65.0	72.1- 74.2	0.4741	0.6528	0.8420	1.0420	1.2499	1.4634	1.6810	1.9018	2.1250	2.3502	2.5770	2.8051	3.0343	3.2645	3.4954	3.7271	3.9594	4.1922	31.8
65.1-67.0	74.3- 76.3	0.5071	0.6924	0.8893	1.0980	1.3152	1.5386	1.7665	1.9979	2.2320	2.4682	2.7062	2.9456	3.1863	3.4279	3.6704	3.9137	4.1577	4.4023	32.2
67.1-69.0	76.4- 78.5	0.5414	0.7334	0.9377	1.1549	1.3815	1.6148	1.8530	2.0950	2.3400	2.5873	2.8365	3.0873	3.3394	3.5926	3.8468	4.1018	4.3576	4.6140	32.6
69.1-71.0	78.6- 80.6	0.5774	0.7756	0.9872	1.2128	1.4487	1.6918	1.9404	2.1930	2.4489	2.7073	2.9677	3.2299	3.4936	3.7584	4.0243	4.2911	4.5587	4.8270	32.9
71.1-73.0	80.7- 82.7	0.6149	0.8191	1.0378	1.2717	1.5168	1.7697	2.0285	2.2918	2.5586	2.8281	3.0998	3.3735	3.6486	3.9252	4.2028	4.4814	4.7609	5.0412	33.3
73.1-75.0	82.8- 84.8	0.6540	0.8639	1.0895	1.3316	1.5857	1.8484	2.1175	2.3913	2.6690	2.9496	3.2327	3.5177	3.8045	4.0927	4.3822	4.6727	4.9641	5.2564	33.6
75.1-77.0	84.9- 86.8	0.6948	0.9101	1.1423	1.3924	1.6555	1.9279	2.2071	2.4915	2.7800	3.0718	3.3661	3.6627	3.9610	4.2610	4.5622	4.8646	5.1680	5.4723	33.9
77.1-79.0	86.9- 88.9	0.7374	0.9576	1.1962	1.4541	1.7261	2.0080	2.2974	2.5923	2.8916	3.1945	3.5001	3.8081	4.1181	4.4297	4.7428	5.0571	5.3725	5.6889	34.2
79.1-81.0	89.0- 90.9	0.7818	1.0066	1.2512	1.5168	1.7975	2.0889	2.3883	2.6937	3.0038	3.3176	3.6346	3.9540	4.2755	4.5989	4.9238	5.2500	5.5774	5.9058	34.5

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	0.7- 2.9	0.0005	0.0007	0.0010	0.0012	0.0015	0.0017	0.0019	0.0022	0.0024	0.0027	0.0029	0.0032	0.0034	0.0037	0.0039	0.0041	0.0044	0.0046	2.6
3.1- 5.0	3.0- 5.2	0.0022	0.0034	0.0046	0.0057	0.0069	0.0081	0.0093	0.0104	0.0116	0.0128	0.0140	0.0151	0.0163	0.0175	0.0187	0.0198	0.0210	0.0222	4.5
5.1- 7.0	5.3- 7.5	0.0049	0.0075	0.0101	0.0127	0.0153	0.0179	0.0205	0.0231	0.0257	0.0283	0.0309	0.0335	0.0361	0.0388	0.0414	0.0440	0.0466	0.0492	6.5
7.1- 9.0	7.6- 9.8	0.0085	0.0131	0.0176	0.0221	0.0267	0.0312	0.0358	0.0403	0.0449	0.0495	0.0540	0.0586	0.0632	0.0677	0.0723	0.0769	0.0815	0.0861	8.5
9.1-11.0	9.9- 12.1	0.0131	0.0200	0.0270	0.0340	0.0410	0.0480	0.0550	0.0620	0.0691	0.0761	0.0831	0.0902	0.0972	0.1043	0.1113	0.1184	0.1254	0.1325	10.4
11.1-13.0	12.2- 14.4	0.0185	0.0284	0.0383	0.0482	0.0582	0.0681	0.0781	0.0881	0.0981	0.1081	0.1181	0.1281	0.1381	0.1481	0.1582	0.1682	0.1783	0.1883	12.3
13.1-15.0	14.5- 16.7	0.0247	0.0380	0.0513	0.0647	0.0781	0.0915	0.1049	0.1183	0.1318	0.1452	0.1587	0.1722	0.1857	0.1992	0.2127	0.2262	0.2397	0.2532	14.0
15.1-17.0	16.8- 19.0	0.0317	0.0489	0.0661	0.0834	0.1007	0.1180	0.1354	0.1527	0.1701	0.1875	0.2049	0.2223	0.2398	0.2572	0.2747	0.2921	0.3096	0.3271	15.6
17.1-19.0	19.1- 21.3	0.0395	0.0611	0.0826	0.1043	0.1260	0.1477	0.1694	0.1912	0.2129	0.2347	0.2565	0.2784	0.3002	0.3221	0.3440	0.3659	0.3878	0.4097	17.1
19.1-21.0	21.4- 23.6	0.0481	0.0744	0.1008	0.1273	0.1538	0.1803	0.2069	0.2335	0.2602	0.2868	0.3135	0.3402	0.3670	0.3937	0.4205	0.4472	0.4740	0.5009	18.4
21.1-23.0	23.7- 25.9	0.0575	0.0890	0.1206	0.1523	0.1841	0.2159	0.2478	0.2797	0.3117	0.3437	0.3757	0.4077	0.4398	0.4719	0.5040	0.5361	0.5683	0.6004	19.7
23.1-25.0	26.0- 28.2	0.0675	0.1047	0.1420	0.1794	0.2168	0.2544	0.2920	0.3297	0.3674	0.4052	0.4429	0.4808	0.5186	0.5565	0.5944	0.6323	0.6702	0.7082	20.8
25.1-27.0	28.3- 30.5	0.0783	0.1215	0.1649	0.2084	0.2520	0.2957	0.3395	0.3834	0.4273	0.4712	0.5152	0.5592	0.6033	0.6474	0.6915	0.7357	0.7799	0.8241	21.9
27.1-29.0	30.6- 32.7	0.0898	0.1394	0.1893	0.2393	0.2895	0.3398	0.3902	0.4407	0.4912	0.5418	0.5924	0.6431	0.6938	0.7445	0.7953	0.8461	0.8970	0.9479	22.8
29.1-31.0	32.8- 35.0	0.1020	0.1584	0.2152	0.2721	0.3293	0.3866	0.4440	0.5015	0.5590	0.6167	0.6744	0.7321	0.7899	0.8477	0.9056	0.9635	1.0214	1.0794	23.6
31.1-33.0	35.1- 37.3	0.1149	0.1785	0.2425	0.3068	0.3714	0.4360	0.5009	0.5658	0.6308	0.6959	0.7610	0.8263	0.8915	0.9569	1.0222	1.0876	1.1531	1.2186	24.4
33.1-35.0	37.4- 39.6	0.1285	0.1996	0.2713	0.3433	0.4156	0.4881	0.5607	0.6335	0.7064	0.7793	0.8523	0.9254	0.9986	1.0718	1.1451	1.2185	1.2918	1.3653	25.1
35.1-37.0	39.7- 41.8	0.1427	0.2218	0.3015	0.3816	0.4620	0.5427	0.6235	0.7045	0.7856	0.8669	0.9482	1.0296	1.1110	1.1926	1.2742	1.3558	1.4375	1.5193	25.7
37.1-39.0	42.0- 44.1	0.1576	0.2450	0.3330	0.4216	0.5105	0.5998	0.6892	0.7789	0.8686	0.9585	1.0485	1.1385	1.2287	1.3189	1.4092	1.4996	1.5901	1.6805	26.3
39.1-41.0	44.2- 46.4	0.1732	0.2691	0.3659	0.4633	0.5612	0.6593	0.7578	0.8564	0.9552	1.0541	1.1531	1.2523	1.3515	1.4508	1.5502	1.6497	1.7493	1.8489	26.8
41.1-43.0	46.5- 48.7	0.1894	0.2943	0.4001	0.5067	0.6138	0.7213	0.8291	0.9371	1.0452	1.1536	1.2621	1.3706	1.4794	1.5882	1.6970	1.8060	1.9151	2.0242	27.2
43.1-45.0	48.8- 50.9	0.2063	0.3204	0.4356	0.5518	0.6685	0.7856	0.9031	1.0208	1.1388	1.2569	1.3752	1.4936	1.6122	1.7308	1.8496	1.9684	2.0873	2.2063	27.6
45.1-47.0	51.0- 53.2	0.2239	0.3475	0.4725	0.5984	0.7251	0.8523	0.9798	1.1076	1.2357	1.3640	1.4925	1.6211	1.7498	1.8787	2.0077	2.1367	2.2659	2.3952	28.0
47.1-49.0	53.3- 55.4	0.2421	0.3756	0.5106	0.6467	0.7837	0.9212	1.0591	1.1974	1.3360	1.4748	1.6138	1.7530	1.8923	2.0317	2.1713	2.3110	2.4508	2.5907	28.3
49.1-51.0	55.6- 57.7	0.2610	0.4046	0.5499	0.6965	0.8441	0.9924	1.1411	1.2902	1.4396	1.5892	1.7391	1.8892	2.0394	2.1898	2.3403	2.4910	2.6417	2.7926	28.6
51.1-53.0	57.8- 60.0	0.2806	0.4345	0.5905	0.7479	0.9065	1.0657	1.2255	1.3858	1.5463	1.7072	1.8683	2.0296	2.1911	2.3528	2.5146	2.6766	2.8387	3.0009	28.9
53.1-55.0	60.1- 62.2	0.3008	0.4654	0.6323	0.8009	0.9706	1.1412	1.3125	1.4842	1.6563	1.8287	2.0014	2.1743	2.3474	2.5207	2.6942	2.8678	3.0416	3.2155	29.1
55.1-57.0	62.3- 64.5	0.3217	0.4972	0.6753	0.8553	1.0366	1.2189	1.4019	1.5854	1.7693	1.9536	2.1382	2.3230	2.5081	2.6934	2.8789	3.0645	3.2503	3.4362	29.3
57.1-59.0	64.6- 66.7	0.3432	0.5300	0.7195	0.9112	1.1044	1.2986	1.4937	1.6893	1.8854	2.0819	2.2787	2.4758	2.6732	2.8708	3.0686	3.2666	3.4647	3.6630	29.5
59.1-61.0	66.8- 69.0	0.3654	0.5636	0.7649	0.9686	1.1739	1.3804	1.5878	1.7959	2.0045	2.2135	2.4229	2.6326	2.8426	3.0528	3.2632	3.4739	3.6847	3.8957	29.7
61.1-63.0	69.1- 71.2	0.3883	0.5982	0.8114	1.0274	1.2451	1.4642	1.6843	1.9051	2.1265	2.3484	2.5706	2.7932	3.0161	3.2393	3.4627	3.6864	3.9102	4.1342	29.9
63.1-65.0	71.3- 73.5	0.4119	0.6337	0.8591	1.0876	1.3181	1.5501	1.7831	2.0169	2.2514	2.4864	2.7219	2.9577	3.1939	3.4303	3.6670	3.9040	4.1411	4.3785	30.0
65.1-67.0	73.6- 75.7	0.4362	0.6701	0.9080	1.1492	1.3927	1.6378	1.8841	2.1313	2.3792	2.6276	2.8766	3.1259	3.3756	3.6257	3.8760	4.1265	4.3773	4.6283	30.1
67.1-69.0	75.8- 77.9	0.4611	0.7074	0.9580	1.2122	1.4690	1.7275	1.9873	2.2481	2.5097	2.7719	3.0346	3.2978	3.5614	3.8253	4.0895	4.3540	4.6188	4.8838	30.2
69.1-71.0	78.1- 80.2	0.4868	0.7456	1.0091	1.2766	1.5469	1.8191	2.0927	2.3674	2.6430	2.9192	3.1961	3.4734	3.7511	4.0292	4.3076	4.5864	4.8653	5.1446	30.3
71.1-73.0	80.3- 82.4	0.5131	0.7847	1.0613	1.3424	1.6264	1.9126	2.2003	2.4891	2.7790	3.0695	3.3607	3.6525	3.9446	4.2372	4.5301	4.8234	5.1169	5.4108	30.4
73.1-75.0	82.5- 84.6	0.5402	0.8247	1.1147	1.4094	1.7075	2.0078	2.3099	2.6132	2.9176	3.2228	3.5286	3.8350	4.1420	4.4493	4.7570	5.0651	5.3735	5.6822	30.5
75.1-77.0	84.8- 86.9	0.5680	0.8656	1.1691	1.4778	1.7901	2.1050	2.4216	2.7397	3.0588	3.3789	3.6997	4.0211	4.3430	4.6654	4.9882	5.3114	5.6349	5.9587	30.6
77.1-79.0	87.0- 89.1	0.5965	0.9074	1.2247	1.5476	1.8743	2.2038	2.5354	2.8684	3.2026	3.5378	3.8738	4.2105	4.5477	4.8854	5.2236	5.5622	5.9011	6.2403	30.6
79.1-81.0	89.2- 91.3	0.6258	0.9501	1.2813	1.6186	1.9600	2.3045	2.6511	2.9994	3.3489	3.6995	4.0510	4.4032	4.7560	5.1093	5.4631	5.8173	6.1720	6.5269	30.7

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: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	1.4- 3.4	0.0004	0.0007	0.0009	0.0011	0.0013	0.0015	0.0017	0.0020	0.0022	0.0024	0.0026	0.0028	0.0031	0.0033	0.0035	0.0037	0.0039	0.0042	2.5
3.1- 5.0	3.5- 5.6	0.0022	0.0034	0.0046	0.0058	0.0070	0.0082	0.0094	0.0106	0.0118	0.0130	0.0142	0.0154	0.0166	0.0178	0.0190	0.0202	0.0214	0.0226	4.3
5.1- 7.0	5.7- 7.8	0.0048	0.0074	0.0101	0.0128	0.0155	0.0182	0.0209	0.0236	0.0263	0.0290	0.0317	0.0344	0.0372	0.0399	0.0426	0.0453	0.0481	0.0508	6.3
7.1- 9.0	7.9- 10.0	0.0082	0.0129	0.0176	0.0223	0.0270	0.0318	0.0366	0.0413	0.0461	0.0509	0.0557	0.0605	0.0653	0.0701	0.0749	0.0797	0.0845	0.0893	8.3
9.1-11.0	10.1- 12.2	0.0125	0.0196	0.0268	0.0341	0.0415	0.0488	0.0562	0.0636	0.0710	0.0785	0.0859	0.0933	0.1008	0.1082	0.1157	0.1231	0.1306	0.1381	10.2
11.1-13.0	12.3- 14.4	0.0176	0.0277	0.0379	0.0483	0.0587	0.0692	0.0797	0.0903	0.1009	0.1115	0.1221	0.1327	0.1433	0.1540	0.1646	0.1753	0.1860	0.1966	12.1
13.1-15.0	14.5- 16.6	0.0236	0.0370	0.0507	0.0646	0.0787	0.0928	0.1070	0.1212	0.1355	0.1498	0.1641	0.1785	0.1928	0.2072	0.2216	0.2360	0.2504	0.2648	13.9
15.1-17.0	16.8- 18.9	0.0304	0.0475	0.0651	0.0831	0.1012	0.1194	0.1378	0.1562	0.1747	0.1932	0.2118	0.2304	0.2490	0.2676	0.2863	0.3049	0.3236	0.3423	15.6
17.1-19.0	19.0- 21.2	0.0381	0.0593	0.0812	0.1036	0.1262	0.1491	0.1721	0.1952	0.2184	0.2416	0.2649	0.2882	0.3116	0.3350	0.3585	0.3819	0.4054	0.4289	17.1
19.1-21.0	21.3- 23.5	0.0467	0.0724	0.0990	0.1262	0.1538	0.1817	0.2098	0.2380	0.2664	0.2948	0.3233	0.3519	0.3806	0.4092	0.4380	0.4667	0.4955	0.5243	18.6
21.1-23.0	23.6- 25.8	0.0563	0.0867	0.1183	0.1508	0.1837	0.2171	0.2507	0.2846	0.3186	0.3527	0.3869	0.4213	0.4556	0.4901	0.5246	0.5591	0.5937	0.6283	19.9
23.1-25.0	25.9- 28.1	0.0670	0.1024	0.1393	0.1773	0.2161	0.2553	0.2949	0.3348	0.3749	0.4152	0.4556	0.4961	0.5367	0.5774	0.6181	0.6589	0.6998	0.7407	21.1
25.1-27.0	28.2- 30.4	0.0788	0.1195	0.1620	0.2059	0.2508	0.2963	0.3423	0.3886	0.4352	0.4821	0.5291	0.5762	0.6235	0.6709	0.7184	0.7659	0.8135	0.8612	22.3
27.1-29.0	30.5- 32.7	0.0917	0.1379	0.1863	0.2364	0.2878	0.3399	0.3927	0.4459	0.4995	0.5533	0.6074	0.6616	0.7160	0.7706	0.8252	0.8799	0.9348	0.9897	23.3
29.1-31.0	32.9- 35.1	0.1060	0.1578	0.2123	0.2690	0.3271	0.3863	0.4462	0.5066	0.5676	0.6288	0.6904	0.7521	0.8141	0.8762	0.9385	1.0008	1.0633	1.1259	24.3
31.1-33.0	35.2- 37.5	0.1216	0.1793	0.2401	0.3035	0.3687	0.4352	0.5026	0.5707	0.6394	0.7084	0.7779	0.8476	0.9175	0.9876	1.0580	1.1284	1.1990	1.2697	25.1
33.1-35.0	37.6- 39.9	0.1387	0.2024	0.2697	0.3401	0.4126	0.4868	0.5620	0.6381	0.7149	0.7922	0.8698	0.9479	1.0262	1.1048	1.1836	1.2625	1.3416	1.4209	25.9
35.1-37.0	40.0- 42.3	0.1574	0.2271	0.3011	0.3787	0.4589	0.5409	0.6243	0.7088	0.7940	0.8798	0.9662	1.0530	1.1401	1.2275	1.3151	1.4030	1.4911	1.5793	26.6
37.1-39.0	42.4- 44.7	0.1778	0.2536	0.3343	0.4193	0.5074	0.5977	0.6896	0.7827	0.8767	0.9714	1.0668	1.1627	1.2590	1.3556	1.4525	1.5497	1.6471	1.7448	27.3
39.1-41.0	44.8- 47.1	0.2000	0.2820	0.3696	0.4621	0.5583	0.6570	0.7577	0.8597	0.9629	1.0669	1.1717	1.2770	1.3828	1.4890	1.5956	1.7025	1.8097	1.9171	27.9
41.1-43.0	47.2- 49.6	0.2241	0.3123	0.4068	0.5071	0.6115	0.7190	0.8286	0.9399	1.0525	1.1662	1.2806	1.3958	1.5115	1.6277	1.7443	1.8613	1.9786	2.0962	28.4
43.1-45.0	49.7- 52.0	0.2504	0.3447	0.4461	0.5542	0.6671	0.7835	0.9024	1.0233	1.1456	1.2691	1.3936	1.5190	1.6449	1.7715	1.8985	2.0259	2.1537	2.2818	28.9
45.1-47.0	52.1- 54.5	0.2789	0.3792	0.4875	0.6036	0.7251	0.8506	0.9790	1.1097	1.2421	1.3758	1.5107	1.6465	1.7830	1.9202	2.0580	2.1962	2.3349	2.4739	29.4
47.1-49.0	54.6- 57.0	0.3098	0.4160	0.5312	0.6553	0.7856	0.9204	1.0585	1.1992	1.3419	1.4861	1.6317	1.7782	1.9257	2.0739	2.2228	2.3721	2.5220	2.6723	29.8
49.1-51.0	57.1- 59.5	0.3433	0.4551	0.5772	0.7093	0.8485	0.9928	1.1408	1.2918	1.4450	1.6000	1.7565	1.9142	2.0729	2.2324	2.3927	2.5535	2.7150	2.8769	30.2
51.1-53.0	59.6- 62.0	0.3796	0.4968	0.6257	0.7657	0.9139	1.0678	1.2260	1.3875	1.5515	1.7175	1.8852	2.0543	2.2245	2.3956	2.5676	2.7403	2.9137	3.0875	30.5
53.1-55.0	62.1- 64.5	0.4189	0.5412	0.6766	0.8247	0.9818	1.1455	1.3140	1.4862	1.6612	1.8385	2.0177	2.1984	2.3804	2.5635	2.7476	2.9324	3.1179	3.3041	30.8
55.1-57.0	64.7- 67.1	0.4614	0.5883	0.7301	0.8861	1.0524	1.2259	1.4049	1.5879	1.7742	1.9630	2.1540	2.3466	2.5407	2.7360	2.9324	3.1296	3.3277	3.5264	31.1
57.1-59.0	67.2- 69.6	0.5073	0.6384	0.7863	0.9502	1.1256	1.3091	1.4986	1.6928	1.8905	2.0910	2.2939	2.4988	2.7052	2.9130	3.1220	3.3319	3.5428	3.7545	31.3
59.1-61.0	69.8- 72.2	0.5569	0.6916	0.8453	1.0170	1.2015	1.3951	1.5953	1.8006	2.0100	2.2225	2.4376	2.6548	2.8739	3.0944	3.3163	3.5393	3.7632	3.9881	31.6
61.1-63.0	72.3- 74.8	0.6104	0.7481	0.9072	1.0866	1.2802	1.4838	1.6949	1.9116	2.1327	2.3574	2.5849	2.8148	3.0467	3.2802	3.5152	3.7515	3.9889	4.2272	31.8
63.1-65.0	74.9- 77.4	0.6681	0.8080	0.9722	1.1591	1.3617	1.5755	1.7974	2.0256	2.2587	2.4957	2.7358	2.9786	3.2235	3.4703	3.7188	3.9686	4.2196	4.4717	32.0
65.1-67.0	77.5- 80.0	0.7303	0.8716	1.0403	1.2345	1.4461	1.6700	1.9029	2.1427	2.3879	2.6374	2.8903	3.1461	3.4044	3.6647	3.9268	4.1904	4.4553	4.7214	32.1
67.1-69.0	80.2- 82.7	0.7973	0.9390	1.1118	1.3129	1.5334	1.7675	2.0114	2.2630	2.5204	2.7825	3.0484	3.3175	3.5893	3.8633	4.1393	4.4169	4.6960	4.9764	32.3
69.1-71.0	82.8- 85.3	0.8695	1.0104	1.1867	1.3945	1.6238	1.8679	2.1230	2.3863	2.6560	2.9309	3.2100	3.4926	3.7781	4.0661	4.3561	4.6480	4.9416	5.2365	32.4
71.1-73.0	85.4- 88.0	0.9471	1.0861	1.2651	1.4794	1.7172	1.9715	2.2376	2.5128	2.7950	3.0828	3.3752	3.6714	3.9708	4.2729	4.5773	4.8837	5.1919	5.5016	32.5
73.1-75.0	88.1- 90.7	1.0307	1.1662	1.3473	1.5676	1.8138	2.0781	2.3553	2.6424	2.9372	3.2381	3.5440	3.8540	4.1674	4.4838	4.8027	5.1239	5.4469	5.7716	32.7
75.1-77.0	90.8- 93.3	1.1205	1.2511	1.4333	1.6592	1.9137	2.1879	2.4762	2.7753	3.0827	3.3967	3.7162	4.0401	4.3678	4.6988	5.0324	5.3684	5.7065	6.0464	32.8
77.1-79.0	93.5- 96.1	1.2171	1.3409	1.5234	1.7544	2.0169	2.3009	2.6003	2.9113	3.2314	3.5587	3.8919	4.2300	4.5721	4.9177	5.2662	5.6173	5.9707	6.3261	32.9
79.1-81.0	96.2- 98.8	1.3208	1.4359	1.6177	1.8533	2.1235	2.4171	2.7276	3.0506	3.3835	3.7242	4.0712	4.4234	4.7801	5.1405	5.5042	5.8706	6.2394	6.6104	32.9

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

SPECIES: WHITE SPRUCE
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	0.7- 2.9	0.0004	0.0007	0.0009	0.0011	0.0013	0.0016	0.0018	0.0020	0.0022	0.0024	0.0027	0.0029	0.0031	0.0033	0.0036	0.0038	0.0040	0.0042	2.7
3.1- 5.0	3.0- 5.2	0.0022	0.0033	0.0045	0.0056	0.0068	0.0080	0.0091	0.0103	0.0115	0.0126	0.0138	0.0150	0.0162	0.0173	0.0185	0.0197	0.0208	0.0220	4.5
5.1- 7.0	5.3- 7.4	0.0048	0.0074	0.0100	0.0126	0.0152	0.0178	0.0205	0.0231	0.0257	0.0284	0.0310	0.0337	0.0363	0.0389	0.0416	0.0442	0.0469	0.0495	6.4
7.1- 9.0	7.6- 9.7	0.0083	0.0128	0.0174	0.0221	0.0267	0.0313	0.0360	0.0406	0.0453	0.0499	0.0546	0.0592	0.0639	0.0686	0.0733	0.0779	0.0826	0.0873	8.3
9.1-11.0	9.9- 12.0	0.0126	0.0197	0.0268	0.0339	0.0411	0.0483	0.0555	0.0627	0.0699	0.0771	0.0843	0.0916	0.0988	0.1061	0.1133	0.1206	0.1278	0.1351	10.1
11.1-13.0	12.2- 14.4	0.0178	0.0278	0.0379	0.0481	0.0583	0.0686	0.0789	0.0891	0.0995	0.1098	0.1201	0.1304	0.1408	0.1511	0.1615	0.1719	0.1823	0.1926	11.9
13.1-15.0	14.5- 16.7	0.0238	0.0372	0.0508	0.0645	0.0783	0.0921	0.1060	0.1199	0.1338	0.1477	0.1617	0.1757	0.1896	0.2036	0.2176	0.2316	0.2456	0.2597	13.6
15.1-17.0	16.8- 19.0	0.0306	0.0479	0.0654	0.0831	0.1009	0.1188	0.1368	0.1548	0.1728	0.1908	0.2089	0.2270	0.2451	0.2633	0.2814	0.2996	0.3178	0.3359	15.1
17.1-19.0	19.1- 21.3	0.0382	0.0598	0.0817	0.1038	0.1261	0.1486	0.1711	0.1937	0.2163	0.2389	0.2616	0.2844	0.3071	0.3299	0.3527	0.3755	0.3983	0.4212	16.6
19.1-21.0	21.4- 23.6	0.0467	0.0728	0.0995	0.1266	0.1538	0.1813	0.2088	0.2364	0.2641	0.2919	0.3197	0.3475	0.3754	0.4033	0.4312	0.4592	0.4872	0.5152	18.0
21.1-23.0	23.7- 25.9	0.0560	0.0871	0.1190	0.1513	0.1839	0.2168	0.2498	0.2830	0.3162	0.3495	0.3829	0.4163	0.4498	0.4833	0.5169	0.5504	0.5841	0.6177	19.2
23.1-25.0	26.0- 28.3	0.0661	0.1026	0.1400	0.1780	0.2164	0.2552	0.2941	0.3332	0.3724	0.4117	0.4511	0.4906	0.5302	0.5697	0.6094	0.6490	0.6887	0.7285	20.4
25.1-27.0	28.4- 30.6	0.0772	0.1193	0.1625	0.2066	0.2512	0.2962	0.3415	0.3870	0.4326	0.4784	0.5243	0.5702	0.6163	0.6624	0.7086	0.7548	0.8010	0.8473	21.5
27.1-29.0	30.7- 32.9	0.0891	0.1372	0.1866	0.2371	0.2883	0.3399	0.3920	0.4442	0.4967	0.5494	0.6022	0.6551	0.7080	0.7611	0.8143	0.8675	0.9207	0.9740	22.5
29.1-31.0	33.0- 35.3	0.1021	0.1563	0.2122	0.2694	0.3275	0.3862	0.4454	0.5049	0.5646	0.6246	0.6847	0.7449	0.8053	0.8657	0.9263	0.9869	1.0476	1.1084	23.4
31.1-33.0	35.4- 37.6	0.1160	0.1766	0.2393	0.3036	0.3690	0.4351	0.5018	0.5688	0.6362	0.7039	0.7717	0.8397	0.9079	0.9761	1.0445	1.1130	1.1815	1.2502	24.3
33.1-35.0	37.7- 39.9	0.1309	0.1982	0.2680	0.3396	0.4126	0.4864	0.5610	0.6360	0.7114	0.7871	0.8631	0.9393	1.0156	1.0921	1.1687	1.2455	1.3223	1.3992	25.0
35.1-37.0	40.1- 42.3	0.1470	0.2212	0.2982	0.3774	0.4583	0.5402	0.6230	0.7063	0.7901	0.8743	0.9588	1.0435	1.1284	1.2135	1.2988	1.3842	1.4697	1.5553	25.8
37.1-39.0	42.4- 44.6	0.1641	0.2454	0.3299	0.4171	0.5061	0.5964	0.6877	0.7797	0.8723	0.9653	1.0587	1.1523	1.2462	1.3403	1.4346	1.5290	1.6236	1.7183	26.4
39.1-41.0	44.7- 47.0	0.1825	0.2710	0.3632	0.4585	0.5560	0.6550	0.7552	0.8562	0.9578	1.0600	1.1626	1.2655	1.3687	1.4722	1.5759	1.6798	1.7838	1.8880	27.0
41.1-43.0	47.1- 49.3	0.2021	0.2980	0.3980	0.5017	0.6079	0.7159	0.8252	0.9356	1.0466	1.1583	1.2705	1.3831	1.4960	1.6092	1.7226	1.8363	1.9501	2.0642	27.6
43.1-45.0	49.5- 51.7	0.2230	0.3264	0.4344	0.5467	0.6619	0.7791	0.8979	1.0178	1.1387	1.2602	1.3823	1.5048	1.6278	1.7510	1.8746	1.9984	2.1225	2.2467	28.1
45.1-47.0	51.8- 54.1	0.2453	0.3563	0.4725	0.5935	0.7178	0.8446	0.9731	1.1030	1.2338	1.3655	1.4978	1.6307	1.7640	1.8977	2.0318	2.1661	2.3007	2.4355	28.5
47.1-49.0	54.2- 56.4	0.2691	0.3877	0.5122	0.6421	0.7758	0.9124	1.0509	1.1909	1.3321	1.4742	1.6171	1.7606	1.9046	2.0491	2.1939	2.3391	2.4845	2.6302	29.0
49.1-51.0	56.5- 58.8	0.2943	0.4207	0.5535	0.6925	0.8359	0.9823	1.1311	1.2816	1.4334	1.5862	1.7400	1.8944	2.0494	2.2050	2.3609	2.5173	2.6739	2.8309	29.4
51.1-53.0	58.9- 61.2	0.3212	0.4553	0.5966	0.7448	0.8979	1.0545	1.2138	1.3749	1.5376	1.7015	1.8664	2.0321	2.1984	2.3653	2.5327	2.7005	2.8687	3.0373	29.7
53.1-55.0	61.3- 63.5	0.3497	0.4915	0.6413	0.7988	0.9619	1.1289	1.2988	1.4710	1.6448	1.8200	1.9963	2.1735	2.3514	2.5300	2.7092	2.8888	3.0688	3.2492	30.0
55.1-57.0	63.7- 65.9	0.3799	0.5295	0.6879	0.8548	1.0279	1.2055	1.3863	1.5696	1.7549	1.9416	2.1296	2.3186	2.5084	2.6990	2.8901	3.0818	3.2740	3.4666	30.3
57.1-59.0	66.0- 68.3	0.4121	0.5693	0.7362	0.9126	1.0960	1.2843	1.4762	1.6709	1.8677	2.0663	2.2662	2.4672	2.6692	2.8720	3.0755	3.2796	3.4842	3.6893	30.6
59.1-61.0	68.4- 70.7	0.4461	0.6109	0.7863	0.9723	1.1660	1.3652	1.5684	1.7747	1.9834	2.1939	2.4060	2.6194	2.8338	3.0491	3.2652	3.4820	3.6993	3.9171	30.9
61.1-63.0	70.8- 73.1	0.4822	0.6545	0.8383	1.0340	1.2381	1.4483	1.6629	1.8810	2.1017	2.3245	2.5491	2.7750	3.0021	3.2302	3.4591	3.6888	3.9191	4.1500	31.1
63.1-65.0	73.2- 75.5	0.5204	0.7000	0.8923	1.0975	1.3122	1.5335	1.7598	1.9898	2.2228	2.4581	2.6952	2.9340	3.1740	3.4151	3.6571	3.9000	4.1436	4.3878	31.3
65.1-67.0	75.6- 77.9	0.5609	0.7476	0.9482	1.1631	1.3883	1.6209	1.8589	2.1011	2.3465	2.5944	2.8445	3.0962	3.3494	3.6038	3.8592	4.1155	4.3726	4.6303	31.5
67.1-69.0	78.0- 80.3	0.6037	0.7973	1.0061	1.2306	1.4665	1.7104	1.9604	2.2148	2.4728	2.7336	2.9967	3.2617	3.5282	3.7961	4.0651	4.3351	4.6059	4.8776	31.6
69.1-71.0	80.4- 82.7	0.6490	0.8492	1.0661	1.3002	1.5467	1.8021	2.0641	2.3310	2.6017	2.8756	3.1519	3.4303	3.7105	3.9921	4.2749	4.5588	4.8436	5.1293	31.8
71.1-73.0	82.8- 85.1	0.6969	0.9034	1.1281	1.3718	1.6291	1.8960	2.1700	2.4495	2.7332	3.0203	3.3101	3.6021	3.8960	4.1915	4.4884	4.7864	5.0855	5.3855	31.9
73.1-75.0	85.2- 87.5	0.7475	0.9599	1.1924	1.4455	1.7135	1.9920	2.2783	2.5704	2.8672	3.1676	3.4710	3.7769	4.0848	4.3944	4.7055	5.0179	5.3315	5.6460	32.1
75.1-77.0	87.6- 89.9	0.8009	1.0189	1.2588	1.5214	1.8000	2.0902	2.3887	2.6937	3.0037	3.3177	3.6348	3.9547	4.2768	4.6007	4.9263	5.2532	5.5814	5.9107	32.2
77.1-79.0	90.0- 92.3	0.8574	1.0804	1.3276	1.5994	1.8887	2.1905	2.5015	2.8194	3.1427	3.4703	3.8014	4.1354	4.4718	4.8103	5.1505	5.4922	5.8352	6.1794	32.3
79.1-81.0	92.5- 94.8	0.9170	1.1446	1.3986	1.6796	1.9796	2.2930	2.6164	2.9473	3.2841	3.6255	3.9707	4.3190	4.6699	5.0231	5.3781	5.7348	6.0929	6.4522	32.4

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

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

Table 5. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
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	4.4- 6.7	0.0007	0.0013	0.0019	0.0024	0.0030	0.0036	0.0041	0.0047	0.0052	0.0058	0.0064	0.0069	0.0075	0.0081	0.0086	0.0092	0.0098	0.0104	5.8
7.1- 9.0	6.9- 9.2	0.0046	0.0079	0.0112	0.0146	0.0179	0.0213	0.0247	0.0281	0.0315	0.0349	0.0383	0.0417	0.0451	0.0485	0.0519	0.0554	0.0588	0.0622	7.3
9.1-11.0	9.4- 11.7	0.0084	0.0144	0.0204	0.0265	0.0325	0.0386	0.0447	0.0508	0.0570	0.0631	0.0692	0.0754	0.0815	0.0877	0.0939	0.1000	0.1062	0.1124	8.8
11.1-13.0	11.9- 14.2	0.0127	0.0217	0.0308	0.0400	0.0492	0.0584	0.0677	0.0770	0.0862	0.0955	0.1049	0.1142	0.1235	0.1328	0.1422	0.1516	0.1609	0.1703	10.2
13.1-15.0	14.3- 16.7	0.0176	0.0301	0.0427	0.0555	0.0683	0.0812	0.0941	0.1070	0.1199	0.1329	0.1459	0.1589	0.1719	0.1849	0.1980	0.2110	0.2241	0.2372	11.6
15.1-17.0	16.8- 19.1	0.0229	0.0394	0.0561	0.0729	0.0899	0.1069	0.1239	0.1410	0.1581	0.1752	0.1924	0.2096	0.2268	0.2440	0.2613	0.2786	0.2958	0.3131	13.0
17.1-19.0	19.2- 21.6	0.0288	0.0497	0.0709	0.0923	0.1138	0.1354	0.1571	0.1788	0.2006	0.2225	0.2443	0.2662	0.2881	0.3101	0.3320	0.3540	0.3760	0.3980	14.2
19.1-21.0	21.7- 24.0	0.0352	0.0609	0.0871	0.1135	0.1401	0.1668	0.1936	0.2205	0.2474	0.2744	0.3014	0.3285	0.3556	0.3828	0.4100	0.4372	0.4644	0.4916	15.5
21.1-23.0	24.1- 26.4	0.0420	0.0730	0.1045	0.1364	0.1685	0.2008	0.2332	0.2657	0.2982	0.3309	0.3636	0.3963	0.4291	0.4619	0.4948	0.5277	0.5607	0.5936	16.6
23.1-25.0	26.5- 28.8	0.0494	0.0860	0.1233	0.1610	0.1991	0.2373	0.2757	0.3143	0.3529	0.3917	0.4305	0.4694	0.5083	0.5473	0.5863	0.6254	0.6645	0.7037	17.8
25.1-27.0	28.9- 31.2	0.0572	0.0998	0.1433	0.1873	0.2316	0.2763	0.3212	0.3662	0.4113	0.4566	0.5020	0.5474	0.5929	0.6385	0.6842	0.7299	0.7756	0.8214	18.8
27.1-29.0	31.3- 33.6	0.0655	0.1144	0.1644	0.2150	0.2661	0.3176	0.3693	0.4212	0.4733	0.5255	0.5778	0.6303	0.6828	0.7354	0.7881	0.8408	0.8936	0.9465	19.8
29.1-31.0	33.7- 35.9	0.0742	0.1298	0.1866	0.2442	0.3024	0.3610	0.4200	0.4791	0.5385	0.5981	0.6578	0.7176	0.7776	0.8376	0.8977	0.9579	1.0182	1.0785	20.8
31.1-33.0	36.0- 38.3	0.0834	0.1459	0.2098	0.2748	0.3404	0.4065	0.4731	0.5399	0.6070	0.6742	0.7417	0.8093	0.8770	0.9449	1.0128	1.0808	1.1490	1.2172	21.8
33.1-35.0	38.4- 40.6	0.0930	0.1628	0.2341	0.3067	0.3800	0.4540	0.5284	0.6033	0.6784	0.7537	0.8293	0.9050	0.9809	1.0569	1.1331	1.2093	1.2857	1.3621	22.6
35.1-37.0	40.7- 42.9	0.1030	0.1803	0.2594	0.3398	0.4212	0.5033	0.5860	0.6691	0.7526	0.8363	0.9203	1.0045	1.0889	1.1735	1.2582	1.3430	1.4279	1.5129	23.5
37.1-39.0	43.1- 45.3	0.1135	0.1986	0.2856	0.3741	0.4638	0.5544	0.6456	0.7373	0.8294	0.9219	1.0147	1.1077	1.2009	1.2943	1.3878	1.4816	1.5754	1.6694	24.3
39.1-41.0	45.4- 47.6	0.1244	0.2175	0.3127	0.4096	0.5078	0.6071	0.7071	0.8077	0.9088	1.0103	1.1121	1.2142	1.3165	1.4191	1.5218	1.6247	1.7278	1.8310	25.1
41.1-43.0	47.7- 49.8	0.1358	0.2371	0.3406	0.4461	0.5532	0.6613	0.7704	0.8802	0.9905	1.1012	1.2124	1.3239	1.4356	1.5476	1.6598	1.7723	1.8849	1.9976	25.8
43.1-45.0	50.0- 52.1	0.1476	0.2573	0.3694	0.4837	0.5997	0.7171	0.8354	0.9545	1.0743	1.1946	1.3154	1.4365	1.5579	1.6797	1.8016	1.9238	2.0462	2.1688	26.5
45.1-47.0	52.2- 54.4	0.1598	0.2782	0.3990	0.5223	0.6475	0.7742	0.9020	1.0307	1.1602	1.2903	1.4209	1.5519	1.6833	1.8149	1.9469	2.0791	2.2116	2.3442	27.1
47.1-49.0	54.5- 56.6	0.1725	0.2997	0.4294	0.5618	0.6963	0.8326	0.9701	1.1086	1.2480	1.3881	1.5287	1.6698	1.8114	1.9533	2.0955	2.2380	2.3807	2.5237	27.8
49.1-51.0	56.7- 58.9	0.1857	0.3219	0.4606	0.6022	0.7462	0.8922	1.0396	1.1881	1.3376	1.4878	1.6387	1.7902	1.9421	2.0944	2.2470	2.4000	2.5533	2.7068	28.4
51.1-53.0	59.0- 61.1	0.1993	0.3446	0.4924	0.6435	0.7971	0.9529	1.1103	1.2690	1.4288	1.5894	1.7508	1.9127	2.0752	2.2381	2.4014	2.5651	2.7291	2.8933	28.9
53.1-55.0	61.2- 63.3	0.2134	0.3680	0.5251	0.6856	0.8490	1.0148	1.1823	1.3513	1.5215	1.6927	1.8646	2.0372	2.2105	2.3842	2.5583	2.7329	2.9078	3.0830	29.5
55.1-57.0	63.4- 65.5	0.2280	0.3920	0.5584	0.7285	0.9017	1.0776	1.2554	1.4349	1.6156	1.7975	1.9802	2.1636	2.3478	2.5324	2.7176	2.9032	3.0892	3.2755	30.0
57.1-59.0	65.6- 67.7	0.2431	0.4166	0.5924	0.7721	0.9553	1.1414	1.3296	1.5196	1.7110	1.9037	2.0973	2.2917	2.4869	2.6827	2.8790	3.0758	3.2730	3.4706	30.5
59.1-61.0	67.8- 69.9	0.2587	0.4419	0.6271	0.8165	1.0097	1.2060	1.4047	1.6054	1.8076	2.0112	2.2158	2.4214	2.6277	2.8347	3.0423	3.2505	3.4591	3.6681	30.9
61.1-63.0	70.0- 72.0	0.2747	0.4677	0.6624	0.8616	1.0649	1.2715	1.4807	1.6921	1.9053	2.1198	2.3356	2.5524	2.7700	2.9884	3.2074	3.4270	3.6471	3.8677	31.4
63.1-65.0	72.1- 74.2	0.2913	0.4942	0.6984	0.9074	1.1207	1.3377	1.5576	1.7798	2.0039	2.2296	2.4565	2.6846	2.9136	3.1435	3.3740	3.6052	3.8369	4.0692	31.8
65.1-67.0	74.3- 76.3	0.3085	0.5213	0.7351	0.9538	1.1773	1.4047	1.6352	1.8683	2.1034	2.3402	2.5785	2.8179	3.0584	3.2998	3.5420	3.7848	4.0283	4.2723	32.2
67.1-69.0	76.4- 78.5	0.3261	0.5490	0.7723	1.0009	1.2345	1.4723	1.7135	1.9575	2.2037	2.4517	2.7013	2.9522	3.2043	3.4573	3.7112	3.9658	4.2210	4.4769	32.6
69.1-71.0	78.6- 80.6	0.3443	0.5773	0.8102	1.0486	1.2923	1.5405	1.7924	2.0473	2.3046	2.5640	2.8250	3.0874	3.3510	3.6157	3.8813	4.1478	4.4149	4.6827	32.9
71.1-73.0	80.7- 82.7	0.3631	0.6063	0.8487	1.0968	1.3507	1.6093	1.8720	2.1378	2.4062	2.6768	2.9493	3.2232	3.4985	3.7750	4.0524	4.3307	4.6098	4.8895	33.3
73.1-75.0	82.8- 84.8	0.3825	0.6358	0.8878	1.1457	1.4096	1.6787	1.9520	2.2287	2.5083	2.7903	3.0741	3.3597	3.6467	3.9349	4.2241	4.5143	4.8054	5.0972	33.6
75.1-77.0	84.9- 86.8	0.4024	0.6661	0.9275	1.1951	1.4690	1.7485	2.0325	2.3202	2.6109	2.9041	3.1995	3.4966	3.7953	4.0953	4.3964	4.6986	5.0017	5.3055	33.9
77.1-79.0	86.9- 88.9	0.4229	0.6969	0.9679	1.2450	1.5289	1.8188	2.1134	2.4120	2.7139	3.0184	3.3252	3.6339	3.9443	4.2561	4.5691	4.8833	5.1984	5.5143	34.2
79.1-81.0	89.0- 90.9	0.4441	0.7284	1.0087	1.2954	1.5893	1.8894	2.1947	2.5042	2.8171	3.1330	3.4512	3.7715	4.0936	4.4172	4.7421	5.0682	5.3954	5.7234	34.5

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 7.0 cm top dib

SPECIES: WHITE SPRUCE
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	6.9- 9.2	0.0009	0.0016	0.0023	0.0029	0.0036	0.0042	0.0049	0.0055	0.0062	0.0068	0.0075	0.0082	0.0088	0.0095	0.0101	0.0108	0.0115	0.0122	7.3
9.1-11.0	9.4- 11.7	0.0060	0.0105	0.0150	0.0197	0.0243	0.0289	0.0336	0.0383	0.0430	0.0477	0.0524	0.0571	0.0618	0.0665	0.0713	0.0760	0.0807	0.0855	8.8
11.1-13.0	11.9- 14.2	0.0109	0.0189	0.0271	0.0353	0.0435	0.0518	0.0601	0.0684	0.0767	0.0851	0.0935	0.1018	0.1102	0.1186	0.1270	0.1354	0.1438	0.1522	10.2
13.1-15.0	14.3- 16.7	0.0161	0.0278	0.0397	0.0518	0.0638	0.0760	0.0882	0.1003	0.1126	0.1248	0.1371	0.1493	0.1616	0.1739	0.1862	0.1985	0.2109	0.2232	11.6
15.1-17.0	16.8- 19.1	0.0216	0.0375	0.0536	0.0698	0.0861	0.1025	0.1190	0.1355	0.1520	0.1686	0.1851	0.2017	0.2183	0.2350	0.2516	0.2683	0.2850	0.3016	13.0
17.1-19.0	19.2- 21.6	0.0276	0.0480	0.0687	0.0896	0.1106	0.1317	0.1529	0.1741	0.1954	0.2167	0.2381	0.2595	0.2809	0.3023	0.3237	0.3452	0.3667	0.3882	14.2
19.1-21.0	21.7- 24.0	0.0341	0.0594	0.0851	0.1110	0.1372	0.1635	0.1898	0.2163	0.2428	0.2693	0.2959	0.3226	0.3492	0.3760	0.4027	0.4294	0.4562	0.4830	15.5
21.1-23.0	24.1- 26.4	0.0411	0.0716	0.1027	0.1342	0.1659	0.1978	0.2298	0.2619	0.2941	0.3263	0.3586	0.3910	0.4234	0.4558	0.4883	0.5208	0.5534	0.5859	16.6
23.1-25.0	26.5- 28.8	0.0485	0.0847	0.1216	0.1590	0.1967	0.2346	0.2726	0.3108	0.3491	0.3875	0.4260	0.4645	0.5031	0.5417	0.5804	0.6191	0.6579	0.6967	17.8
25.1-27.0	28.9- 31.2	0.0564	0.0986	0.1417	0.1854	0.2294	0.2737	0.3183	0.3630	0.4078	0.4528	0.4978	0.5430	0.5881	0.6334	0.6787	0.7241	0.7695	0.8150	18.8
27.1-29.0	31.3- 33.6	0.0647	0.1132	0.1629	0.2132	0.2640	0.3152	0.3666	0.4182	0.4700	0.5219	0.5740	0.6261	0.6783	0.7306	0.7830	0.8354	0.8879	0.9405	19.8
29.1-31.0	33.7- 35.9	0.0734	0.1287	0.1852	0.2425	0.3004	0.3587	0.4174	0.4763	0.5354	0.5947	0.6542	0.7137	0.7734	0.8331	0.8930	0.9529	1.0129	1.0729	20.8
31.1-33.0	36.0- 38.3	0.0826	0.1448	0.2085	0.2731	0.3385	0.4044	0.4706	0.5372	0.6040	0.6710	0.7382	0.8056	0.8730	0.9406	1.0083	1.0761	1.1439	1.2119	21.8
33.1-35.0	38.4- 40.6	0.0922	0.1617	0.2328	0.3051	0.3782	0.4519	0.5261	0.6007	0.6756	0.7507	0.8260	0.9015	0.9771	1.0529	1.1288	1.2048	1.2809	1.3571	22.6
35.1-37.0	40.7- 42.9	0.1023	0.1793	0.2581	0.3383	0.4194	0.5013	0.5838	0.6666	0.7499	0.8334	0.9172	1.0011	1.0853	1.1696	1.2541	1.3386	1.4233	1.5081	23.5
37.1-39.0	43.1- 45.3	0.1128	0.1976	0.2843	0.3726	0.4621	0.5524	0.6434	0.7349	0.8268	0.9191	1.0116	1.1044	1.1974	1.2906	1.3839	1.4774	1.5710	1.6647	24.3
39.1-41.0	45.4- 47.6	0.1238	0.2165	0.3115	0.4081	0.5062	0.6052	0.7050	0.8054	0.9063	1.0075	1.1091	1.2110	1.3131	1.4155	1.5180	1.6207	1.7236	1.8266	25.1
41.1-43.0	47.7- 49.8	0.1351	0.2362	0.3394	0.4447	0.5515	0.6595	0.7684	0.8779	0.9880	1.0986	1.2095	1.3208	1.4323	1.5441	1.6561	1.7683	1.8807	1.9933	25.8
43.1-45.0	50.0- 52.1	0.1469	0.2564	0.3682	0.4823	0.5981	0.7153	0.8334	0.9523	1.0719	1.1920	1.3126	1.4335	1.5547	1.6763	1.7980	1.9200	2.0422	2.1646	26.5
45.1-47.0	52.2- 54.4	0.1592	0.2773	0.3979	0.5209	0.6459	0.7724	0.9000	1.0286	1.1579	1.2878	1.4181	1.5489	1.6801	1.8116	1.9434	2.0754	2.2077	2.3401	27.1
47.1-49.0	54.5- 56.6	0.1719	0.2988	0.4283	0.5604	0.6948	0.8308	0.9681	1.1065	1.2457	1.3856	1.5260	1.6670	1.8083	1.9500	2.0920	2.2343	2.3768	2.5196	27.8
49.1-51.0	56.7- 58.9	0.1851	0.3210	0.4594	0.6009	0.7447	0.8904	1.0376	1.1860	1.3353	1.4854	1.6361	1.7873	1.9390	2.0912	2.2436	2.3964	2.5495	2.7028	28.4
51.1-53.0	59.0- 61.1	0.1987	0.3438	0.4913	0.6421	0.7956	0.9512	1.1084	1.2670	1.4265	1.5870	1.7481	1.9099	2.0722	2.2349	2.3980	2.5615	2.7253	2.8894	28.9
53.1-55.0	61.2- 63.3	0.2129	0.3672	0.5240	0.6843	0.8475	1.0131	1.1804	1.3493	1.5193	1.6902	1.8620	2.0345	2.2075	2.3810	2.5550	2.7294	2.9041	3.0791	29.5
55.1-57.0	63.4- 65.5	0.2274	0.3912	0.5573	0.7272	0.9002	1.0759	1.2536	1.4328	1.6134	1.7951	1.9776	2.1609	2.3448	2.5293	2.7143	2.8997	3.0855	3.2717	30.0
57.1-59.0	65.6- 67.7	0.2425	0.4158	0.5913	0.7708	0.9538	1.1397	1.3277	1.5176	1.7088	1.9013	2.0947	2.2890	2.4840	2.6796	2.8757	3.0723	3.2694	3.4668	30.5
59.1-61.0	67.8- 69.9	0.2581	0.4410	0.6260	0.8152	1.0082	1.2043	1.4029	1.6033	1.8054	2.0088	2.2132	2.4186	2.6248	2.8316	3.0391	3.2470	3.4555	3.6643	30.9
61.1-63.0	70.0- 72.0	0.2742	0.4669	0.6614	0.8603	1.0634	1.2698	1.4789	1.6901	1.9031	2.1175	2.3330	2.5496	2.7671	2.9853	3.2041	3.4236	3.6435	3.8639	31.4
63.1-65.0	72.1- 74.2	0.2908	0.4934	0.6974	0.9061	1.1193	1.3361	1.5557	1.7778	2.0017	2.2272	2.4540	2.6819	2.9107	3.1404	3.3707	3.6018	3.8333	4.0654	31.8
65.1-67.0	74.3- 76.3	0.3079	0.5205	0.7340	0.9525	1.1758	1.4030	1.6333	1.8662	2.1012	2.3378	2.5759	2.8152	3.0555	3.2967	3.5387	3.7814	4.0247	4.2685	32.2
67.1-69.0	76.4- 78.5	0.3256	0.5482	0.7713	0.9996	1.2330	1.4706	1.7116	1.9554	2.2014	2.4493	2.6988	2.9495	3.2014	3.4542	3.7079	3.9623	4.2174	4.4731	32.6
69.1-71.0	78.6- 80.6	0.3438	0.5765	0.8092	1.0473	1.2908	1.5388	1.7906	2.0453	2.3024	2.5616	2.8224	3.0846	3.3481	3.6126	3.8781	4.1443	4.4113	4.6789	32.9
71.1-73.0	80.7- 82.7	0.3626	0.6054	0.8477	1.0955	1.3492	1.6076	1.8701	2.1357	2.4040	2.6744	2.9467	3.2205	3.4956	3.7718	4.0491	4.3272	4.6061	4.8857	33.3
73.1-75.0	82.8- 84.8	0.3819	0.6350	0.8868	1.1444	1.4081	1.6770	1.9501	2.2267	2.5061	2.7878	3.0715	3.3569	3.6437	3.9317	4.2208	4.5109	4.8017	5.0934	33.6
75.1-77.0	84.9- 86.8	0.4019	0.6652	0.9265	1.1938	1.4675	1.7468	2.0306	2.3181	2.6086	2.9017	3.1969	3.4938	3.7923	4.0921	4.3931	4.6951	4.9980	5.3017	33.9
77.1-79.0	86.9- 88.9	0.4224	0.6961	0.9668	1.2437	1.5274	1.8170	2.1115	2.4099	2.7116	3.0159	3.3226	3.6311	3.9413	4.2529	4.5658	4.8797	5.1947	5.5104	34.2
79.1-81.0	89.0- 90.9	0.4436	0.7276	1.0077	1.2941	1.5878	1.8877	2.1928	2.5020	2.8148	3.1305	3.4485	3.7687	4.0906	4.4140	4.7388	5.0647	5.3916	5.7195	34.5

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

SPECIES: WHITE SPRUCE
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	11.9- 14.2	0.0047	0.0081	0.0114	0.0146	0.0179	0.0211	0.0243	0.0276	0.0308	0.0340	0.0372	0.0404	0.0436	0.0469	0.0501	0.0533	0.0565	0.0598	10.2
13.1-15.0	14.3- 16.7	0.0112	0.0198	0.0286	0.0375	0.0464	0.0554	0.0645	0.0736	0.0827	0.0918	0.1010	0.1102	0.1193	0.1285	0.1377	0.1469	0.1561	0.1654	11.6
15.1-17.0	16.8- 19.1	0.0177	0.0311	0.0448	0.0588	0.0728	0.0869	0.1011	0.1153	0.1296	0.1438	0.1581	0.1725	0.1868	0.2012	0.2155	0.2299	0.2443	0.2587	13.0
17.1-19.0	19.2- 21.6	0.0242	0.0426	0.0614	0.0804	0.0996	0.1189	0.1382	0.1576	0.1771	0.1966	0.2161	0.2357	0.2553	0.2749	0.2945	0.3141	0.3338	0.3535	14.2
19.1-21.0	21.7- 24.0	0.0311	0.0547	0.0788	0.1031	0.1277	0.1525	0.1773	0.2022	0.2272	0.2522	0.2772	0.3023	0.3275	0.3526	0.3778	0.4031	0.4283	0.4536	15.5
21.1-23.0	24.1- 26.4	0.0384	0.0674	0.0971	0.1272	0.1575	0.1881	0.2187	0.2495	0.2803	0.3113	0.3422	0.3732	0.4043	0.4354	0.4666	0.4977	0.5289	0.5602	16.6
23.1-25.0	26.5- 28.8	0.0460	0.0808	0.1165	0.1526	0.1891	0.2258	0.2627	0.2997	0.3368	0.3740	0.4113	0.4486	0.4860	0.5235	0.5610	0.5985	0.6361	0.6737	17.8
25.1-27.0	28.9- 31.2	0.0540	0.0950	0.1369	0.1795	0.2225	0.2657	0.3092	0.3528	0.3966	0.4405	0.4845	0.5285	0.5727	0.6168	0.6611	0.7054	0.7497	0.7941	18.8
27.1-29.0	31.3- 33.6	0.0625	0.1099	0.1585	0.2078	0.2576	0.3077	0.3582	0.4088	0.4596	0.5106	0.5617	0.6128	0.6641	0.7154	0.7668	0.8183	0.8698	0.9214	19.8
29.1-31.0	33.7- 35.9	0.0714	0.1255	0.1810	0.2374	0.2944	0.3518	0.4096	0.4676	0.5258	0.5842	0.6427	0.7014	0.7601	0.8190	0.8779	0.9369	0.9960	1.0552	20.8
31.1-33.0	36.0- 38.3	0.0806	0.1418	0.2045	0.2683	0.3328	0.3978	0.4632	0.5290	0.5950	0.6611	0.7275	0.7940	0.8607	0.9274	0.9942	1.0612	1.1282	1.1953	21.8
33.1-35.0	38.4- 40.6	0.0904	0.1589	0.2290	0.3005	0.3728	0.4457	0.5191	0.5929	0.6670	0.7413	0.8158	0.8905	0.9654	1.0404	1.1155	1.1907	1.2660	1.3415	22.6
35.1-37.0	40.7- 42.9	0.1005	0.1766	0.2545	0.3338	0.4142	0.4954	0.5771	0.6592	0.7417	0.8245	0.9075	0.9908	1.0742	1.1578	1.2415	1.3253	1.4093	1.4933	23.5
37.1-39.0	43.1- 45.3	0.1111	0.1949	0.2808	0.3684	0.4571	0.5467	0.6370	0.7278	0.8190	0.9106	1.0024	1.0945	1.1868	1.2793	1.3719	1.4647	1.5576	1.6506	24.3
39.1-41.0	45.4- 47.6	0.1221	0.2140	0.3081	0.4040	0.5013	0.5997	0.6988	0.7985	0.8987	0.9994	1.1003	1.2015	1.3030	1.4047	1.5065	1.6086	1.7108	1.8131	25.1
41.1-43.0	47.7- 49.8	0.1335	0.2336	0.3362	0.4407	0.5469	0.6542	0.7624	0.8713	0.9807	1.0907	1.2010	1.3116	1.4226	1.5337	1.6451	1.7567	1.8684	1.9803	25.8
43.1-45.0	50.0- 52.1	0.1454	0.2540	0.3651	0.4784	0.5936	0.7101	0.8276	0.9459	1.0649	1.1844	1.3043	1.4246	1.5453	1.6662	1.7873	1.9087	2.0303	2.1520	26.5
45.1-47.0	52.2- 54.4	0.1577	0.2749	0.3947	0.5171	0.6415	0.7673	0.8944	1.0223	1.1510	1.2803	1.4101	1.5404	1.6710	1.8019	1.9330	2.0645	2.1961	2.3280	27.1
47.1-49.0	54.5- 56.6	0.1704	0.2965	0.4252	0.5567	0.6904	0.8259	0.9626	1.1004	1.2390	1.3784	1.5182	1.6586	1.7994	1.9405	2.0820	2.2237	2.3657	2.5079	27.8
49.1-51.0	56.7- 58.9	0.1836	0.3187	0.4564	0.5972	0.7405	0.8856	1.0322	1.1801	1.3288	1.4783	1.6285	1.7792	1.9303	2.0819	2.2338	2.3861	2.5386	2.6914	28.4
51.1-53.0	59.0- 61.1	0.1973	0.3415	0.4884	0.6386	0.7915	0.9465	1.1031	1.2611	1.4202	1.5801	1.7407	1.9019	2.0637	2.2259	2.3885	2.5514	2.7147	2.8782	28.9
53.1-55.0	61.2- 63.3	0.2114	0.3650	0.5211	0.6807	0.8434	1.0084	1.1752	1.3435	1.5130	1.6835	1.8547	2.0266	2.1991	2.3722	2.5456	2.7195	2.8936	3.0681	29.5
55.1-57.0	63.4- 65.5	0.2261	0.3890	0.5545	0.7237	0.8962	1.0713	1.2484	1.4272	1.6072	1.7884	1.9704	2.1532	2.3366	2.5206	2.7051	2.8900	3.0753	3.2609	30.0
57.1-59.0	65.6- 67.7	0.2412	0.4137	0.5885	0.7674	0.9499	1.1351	1.3227	1.5120	1.7027	1.8947	2.0876	2.2814	2.4759	2.6710	2.8666	3.0628	3.2593	3.4562	30.5
59.1-61.0	67.8- 69.9	0.2568	0.4389	0.6232	0.8118	1.0043	1.1999	1.3979	1.5978	1.7994	2.0023	2.2062	2.4111	2.6168	2.8232	3.0301	3.2376	3.4455	3.6539	30.9
61.1-63.0	70.0- 72.0	0.2729	0.4648	0.6586	0.8570	1.0595	1.2654	1.4739	1.6847	1.8971	2.1110	2.3261	2.5422	2.7592	2.9769	3.1953	3.4143	3.6337	3.8536	31.4
63.1-65.0	72.1- 74.2	0.2895	0.4913	0.6947	0.9028	1.1154	1.3317	1.5508	1.7724	1.9958	2.2208	2.4471	2.6745	2.9029	3.1321	3.3620	3.5925	3.8236	4.0552	31.8
65.1-67.0	74.3- 76.3	0.3066	0.5184	0.7313	0.9493	1.1720	1.3986	1.6285	1.8609	2.0953	2.3315	2.5691	2.8079	3.0478	3.2885	3.5301	3.7723	4.0151	4.2585	32.2
67.1-69.0	76.4- 78.5	0.3243	0.5461	0.7686	0.9963	1.2292	1.4663	1.7068	1.9501	2.1956	2.4430	2.6920	2.9423	3.1937	3.4461	3.6993	3.9533	4.2079	4.4631	32.6
69.1-71.0	78.6- 80.6	0.3426	0.5745	0.8065	1.0440	1.2870	1.5345	1.7858	2.0400	2.2966	2.5553	2.8157	3.0775	3.3405	3.6045	3.8695	4.1353	4.4018	4.6690	32.9
71.1-73.0	80.7- 82.7	0.3614	0.6035	0.8450	1.0923	1.3454	1.6033	1.8653	2.1304	2.3982	2.6682	2.9400	3.2133	3.4880	3.7638	4.0406	4.3183	4.5967	4.8759	33.3
73.1-75.0	82.8- 84.8	0.3807	0.6331	0.8842	1.1412	1.4043	1.6727	1.9453	2.2214	2.5003	2.7816	3.0649	3.3498	3.6361	3.9237	4.2124	4.5020	4.7924	5.0836	33.6
75.1-77.0	84.9- 86.8	0.4007	0.6633	0.9239	1.1906	1.4638	1.7425	2.0258	2.3128	2.6029	2.8955	3.1902	3.4867	3.7848	4.0841	4.3847	4.6862	4.9886	5.2919	33.9
77.1-79.0	86.9- 88.9	0.4213	0.6942	0.9642	1.2405	1.5237	1.8128	2.1067	2.4047	2.7059	3.0098	3.3159	3.6240	3.9338	4.2450	4.5574	4.8709	5.1854	5.5007	34.2
79.1-81.0	89.0- 90.9	0.4424	0.7257	1.0051	1.2910	1.5841	1.8834	2.1880	2.4968	2.8091	3.1243	3.4419	3.7616	4.0831	4.4060	4.7303	5.0558	5.3823	5.7098	34.5

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 11.0 cm top dib

SPECIES: WHITE SPRUCE
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	11.9- 14.2	0.0018	0.0030	0.0040	0.0050	0.0060	0.0070	0.0080	0.0090	0.0100	0.0111	0.0121	0.0131	0.0142	0.0153	0.0163	0.0174	0.0184	0.0195	10.2
13.1-15.0	14.3- 16.7	0.0087	0.0152	0.0218	0.0284	0.0351	0.0418	0.0486	0.0553	0.0621	0.0689	0.0757	0.0825	0.0893	0.0962	0.1030	0.1099	0.1167	0.1236	11.6
15.1-17.0	16.8- 19.1	0.0156	0.0276	0.0398	0.0523	0.0648	0.0775	0.0902	0.1029	0.1157	0.1285	0.1413	0.1542	0.1670	0.1799	0.1928	0.2058	0.2187	0.2316	13.0
17.1-19.0	19.2- 21.6	0.0225	0.0397	0.0574	0.0753	0.0934	0.1115	0.1298	0.1481	0.1665	0.1849	0.2033	0.2218	0.2403	0.2588	0.2773	0.2959	0.3144	0.3330	14.2
19.1-21.0	21.7- 24.0	0.0296	0.0522	0.0754	0.0988	0.1225	0.1464	0.1703	0.1943	0.2184	0.2425	0.2667	0.2909	0.3152	0.3395	0.3638	0.3881	0.4125	0.4369	15.5
21.1-23.0	24.1- 26.4	0.0370	0.0652	0.0941	0.1235	0.1530	0.1828	0.2127	0.2427	0.2728	0.3030	0.3332	0.3635	0.3938	0.4242	0.4546	0.4850	0.5155	0.5459	16.6
23.1-25.0	26.5- 28.8	0.0448	0.0789	0.1138	0.1493	0.1851	0.2212	0.2574	0.2937	0.3302	0.3667	0.4034	0.4401	0.4768	0.5136	0.5504	0.5873	0.6242	0.6612	17.8
25.1-27.0	28.9- 31.2	0.0529	0.0932	0.1345	0.1765	0.2188	0.2615	0.3044	0.3475	0.3906	0.4339	0.4773	0.5208	0.5644	0.6080	0.6516	0.6954	0.7391	0.7829	18.8
27.1-29.0	31.3- 33.6	0.0614	0.1082	0.1562	0.2050	0.2542	0.3039	0.3538	0.4039	0.4542	0.5046	0.5552	0.6058	0.6565	0.7073	0.7582	0.8091	0.8601	0.9112	19.8
29.1-31.0	33.7- 35.9	0.0704	0.1240	0.1789	0.2348	0.2913	0.3482	0.4055	0.4630	0.5208	0.5787	0.6367	0.6949	0.7532	0.8116	0.8700	0.9285	0.9871	1.0458	20.8
31.1-33.0	36.0- 38.3	0.0797	0.1404	0.2026	0.2659	0.3299	0.3944	0.4594	0.5247	0.5903	0.6560	0.7219	0.7880	0.8542	0.9205	0.9869	1.0534	1.1200	1.1866	21.8
33.1-35.0	38.4- 40.6	0.0895	0.1575	0.2272	0.2982	0.3700	0.4425	0.5155	0.5889	0.6626	0.7365	0.8106	0.8849	0.9593	1.0339	1.1086	1.1834	1.2583	1.3333	22.6
35.1-37.0	40.7- 42.9	0.0997	0.1752	0.2527	0.3316	0.4116	0.4924	0.5737	0.6554	0.7375	0.8199	0.9026	0.9854	1.0685	1.1517	1.2350	1.3184	1.4020	1.4857	23.5
37.1-39.0	43.1- 45.3	0.1103	0.1937	0.2791	0.3663	0.4546	0.5438	0.6338	0.7242	0.8150	0.9062	0.9977	1.0894	1.1814	1.2735	1.3658	1.4582	1.5507	1.6434	24.3
39.1-41.0	45.4- 47.6	0.1213	0.2127	0.3064	0.4020	0.4989	0.5969	0.6957	0.7951	0.8949	0.9952	1.0958	1.1967	1.2978	1.3991	1.5007	1.6023	1.7042	1.8062	25.1
41.1-43.0	47.7- 49.8	0.1327	0.2325	0.3346	0.4388	0.5445	0.6515	0.7594	0.8680	0.9771	1.0867	1.1967	1.3070	1.4176	1.5284	1.6395	1.7507	1.8621	1.9737	25.8
43.1-45.0	50.0- 52.1	0.1446	0.2528	0.3635	0.4765	0.5913	0.7075	0.8247	0.9427	1.0614	1.1805	1.3002	1.4202	1.5405	1.6611	1.7819	1.9030	2.0243	2.1457	26.5
45.1-47.0	52.2- 54.4	0.1569	0.2738	0.3933	0.5153	0.6393	0.7649	0.8916	1.0192	1.1476	1.2766	1.4061	1.5360	1.6663	1.7969	1.9278	2.0590	2.1903	2.3219	27.1
47.1-49.0	54.5- 56.6	0.1697	0.2954	0.4238	0.5549	0.6883	0.8235	0.9599	1.0974	1.2357	1.3748	1.5143	1.6544	1.7949	1.9357	2.0769	2.2183	2.3600	2.5019	27.8
49.1-51.0	56.7- 58.9	0.1829	0.3176	0.4550	0.5955	0.7384	0.8833	1.0296	1.1771	1.3256	1.4748	1.6247	1.7751	1.9260	2.0773	2.2289	2.3809	2.5331	2.6856	28.4
51.1-53.0	59.0- 61.1	0.1966	0.3405	0.4870	0.6369	0.7894	0.9442	1.1006	1.2583	1.4170	1.5766	1.7370	1.8979	2.0594	2.2214	2.3837	2.5464	2.7094	2.8726	28.9
53.1-55.0	61.2- 63.3	0.2108	0.3639	0.5197	0.6791	0.8414	1.0061	1.1727	1.3407	1.5099	1.6801	1.8511	2.0228	2.1950	2.3678	2.5410	2.7145	2.8885	3.0627	29.5
55.1-57.0	63.4- 65.5	0.2254	0.3880	0.5531	0.7220	0.8943	1.0691	1.2459	1.4244	1.6042	1.7851	1.9669	2.1494	2.3326	2.5163	2.7005	2.8852	3.0702	3.2556	30.0
57.1-59.0	65.6- 67.7	0.2405	0.4127	0.5872	0.7658	0.9479	1.1330	1.3202	1.5093	1.6998	1.8915	2.0842	2.2777	2.4719	2.6668	2.8622	3.0581	3.2544	3.4510	30.5
59.1-61.0	67.8- 69.9	0.2562	0.4380	0.6219	0.8102	1.0024	1.1977	1.3955	1.5952	1.7965	1.9991	2.2028	2.4075	2.6129	2.8190	3.0257	3.2330	3.4407	3.6488	30.9
61.1-63.0	70.0- 72.0	0.2723	0.4639	0.6573	0.8554	1.0576	1.2633	1.4716	1.6820	1.8943	2.1079	2.3228	2.5386	2.7554	2.9729	3.1910	3.4097	3.6289	3.8486	31.4
63.1-65.0	72.1- 74.2	0.2889	0.4904	0.6934	0.9012	1.1136	1.3296	1.5485	1.7698	1.9930	2.2177	2.4438	2.6710	2.8991	3.1281	3.3578	3.5881	3.8189	4.0503	31.8
65.1-67.0	74.3- 76.3	0.3061	0.5175	0.7301	0.9477	1.1702	1.3966	1.6262	1.8583	2.0925	2.3285	2.5659	2.8044	3.0441	3.2846	3.5259	3.7679	4.0105	4.2536	32.2
67.1-69.0	76.4- 78.5	0.3238	0.5452	0.7674	0.9948	1.2274	1.4642	1.7045	1.9476	2.1929	2.4400	2.6888	2.9388	3.1900	3.4422	3.6952	3.9489	4.2033	4.4583	32.6
69.1-71.0	78.6- 80.6	0.3420	0.5736	0.8053	1.0425	1.2852	1.5325	1.7835	2.0375	2.2939	2.5523	2.8125	3.0740	3.3368	3.6007	3.8654	4.1310	4.3973	4.6642	32.9
71.1-73.0	80.7- 82.7	0.3608	0.6026	0.8438	1.0908	1.3436	1.6013	1.8630	2.1279	2.3955	2.6653	2.9368	3.2099	3.4844	3.7600	4.0365	4.3140	4.5922	4.8712	33.3
73.1-75.0	82.8- 84.8	0.3802	0.6322	0.8830	1.1397	1.4026	1.6707	1.9431	2.2189	2.4977	2.7787	3.0617	3.3464	3.6326	3.9199	4.2083	4.4977	4.7879	5.0789	33.6
75.1-77.0	84.9- 86.8	0.4002	0.6624	0.9227	1.1891	1.4620	1.7405	2.0236	2.3104	2.6002	2.8926	3.1871	3.4834	3.7812	4.0804	4.3807	4.6820	4.9842	5.2873	33.9
77.1-79.0	86.9- 88.9	0.4207	0.6933	0.9630	1.2390	1.5220	1.8108	2.1045	2.4022	2.7032	3.0069	3.3128	3.6207	3.9303	4.2412	4.5534	4.8667	5.1810	5.4961	34.2
79.1-81.0	89.0- 90.9	0.4419	0.7248	1.0039	1.2895	1.5823	1.8815	2.1858	2.4944	2.8065	3.1214	3.4388	3.7583	4.0795	4.4023	4.7264	5.0517	5.3780	5.7052	34.5

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

SPECIES: WHITE SPRUCE
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- 16.7	0.0026	0.0041	0.0054	0.0066	0.0078	0.0090	0.0102	0.0115	0.0127	0.0140	0.0153	0.0166	0.0179	0.0192	0.0205	0.0218	0.0231	0.0244	11.6
15.1-17.0	16.8- 19.1	0.0101	0.0176	0.0250	0.0324	0.0398	0.0471	0.0545	0.0619	0.0693	0.0768	0.0842	0.0916	0.0991	0.1065	0.1140	0.1214	0.1289	0.1364	13.0
17.1-19.0	19.2- 21.6	0.0179	0.0317	0.0458	0.0601	0.0746	0.0892	0.1039	0.1186	0.1334	0.1483	0.1631	0.1781	0.1930	0.2079	0.2229	0.2379	0.2529	0.2679	14.2
19.1-21.0	21.7- 24.0	0.0257	0.0455	0.0659	0.0866	0.1075	0.1286	0.1499	0.1712	0.1926	0.2140	0.2355	0.2570	0.2786	0.3002	0.3218	0.3434	0.3651	0.3868	15.5
21.1-23.0	24.1- 26.4	0.0335	0.0594	0.0860	0.1130	0.1404	0.1679	0.1956	0.2234	0.2513	0.2793	0.3073	0.3354	0.3635	0.3917	0.4199	0.4481	0.4764	0.5047	16.6
23.1-25.0	26.5- 28.8	0.0416	0.0737	0.1067	0.1402	0.1741	0.2082	0.2425	0.2770	0.3116	0.3463	0.3810	0.4158	0.4507	0.4856	0.5206	0.5556	0.5907	0.6257	17.8
25.1-27.0	28.9- 31.2	0.0500	0.0885	0.1281	0.1683	0.2090	0.2500	0.2912	0.3326	0.3741	0.4158	0.4575	0.4994	0.5413	0.5833	0.6253	0.6674	0.7095	0.7517	18.8
27.1-29.0	31.3- 33.6	0.0588	0.1039	0.1503	0.1975	0.2453	0.2934	0.3418	0.3904	0.4393	0.4882	0.5373	0.5865	0.6357	0.6851	0.7345	0.7840	0.8335	0.8831	19.8
29.1-31.0	33.7- 35.9	0.0679	0.1199	0.1734	0.2279	0.2830	0.3386	0.3945	0.4507	0.5071	0.5637	0.6204	0.6772	0.7342	0.7912	0.8484	0.9056	0.9628	1.0202	20.8
31.1-33.0	36.0- 38.3	0.0774	0.1366	0.1974	0.2594	0.3222	0.3855	0.4492	0.5133	0.5776	0.6421	0.7068	0.7716	0.8366	0.9017	0.9669	1.0322	1.0975	1.1629	21.8
33.1-35.0	38.4- 40.6	0.0873	0.1539	0.2223	0.2921	0.3628	0.4341	0.5059	0.5782	0.6507	0.7235	0.7965	0.8697	0.9430	1.0164	1.0900	1.1637	1.2374	1.3113	22.6
35.1-37.0	40.7- 42.9	0.0976	0.1718	0.2481	0.3259	0.4048	0.4844	0.5646	0.6453	0.7264	0.8077	0.8893	0.9711	1.0531	1.1352	1.2175	1.2999	1.3824	1.4650	23.5
37.1-39.0	43.1- 45.3	0.1082	0.1904	0.2748	0.3608	0.4481	0.5363	0.6252	0.7146	0.8045	0.8947	0.9851	1.0759	1.1668	1.2579	1.3492	1.4407	1.5322	1.6239	24.3
39.1-41.0	45.4- 47.6	0.1193	0.2096	0.3022	0.3967	0.4927	0.5897	0.6875	0.7859	0.8849	0.9842	1.0838	1.1838	1.2840	1.3844	1.4850	1.5857	1.6866	1.7877	25.1
41.1-43.0	47.7- 49.8	0.1309	0.2295	0.3305	0.4337	0.5385	0.6446	0.7515	0.8592	0.9674	1.0762	1.1853	1.2947	1.4044	1.5143	1.6245	1.7349	1.8454	1.9561	25.8
43.1-45.0	50.0- 52.1	0.1428	0.2499	0.3596	0.4717	0.5856	0.7008	0.8172	0.9343	1.0521	1.1704	1.2892	1.4084	1.5278	1.6476	1.7676	1.8878	2.0082	2.1288	26.5
45.1-47.0	52.2- 54.4	0.1552	0.2710	0.3895	0.5106	0.6337	0.7584	0.8843	1.0111	1.1387	1.2669	1.3955	1.5247	1.6542	1.7840	1.9140	2.0444	2.1749	2.3057	27.1
47.1-49.0	54.5- 56.6	0.1680	0.2927	0.4201	0.5503	0.6829	0.8172	0.9528	1.0895	1.2271	1.3653	1.5041	1.6434	1.7831	1.9232	2.0636	2.2043	2.3452	2.4863	27.8
49.1-51.0	56.7- 58.9	0.1813	0.3150	0.4514	0.5910	0.7331	0.8772	1.0227	1.1695	1.3172	1.4657	1.6148	1.7645	1.9146	2.0651	2.2160	2.3673	2.5188	2.6705	28.4
51.1-53.0	59.0- 61.1	0.1950	0.3379	0.4835	0.6325	0.7843	0.9382	1.0939	1.2508	1.4088	1.5677	1.7274	1.8876	2.0484	2.2096	2.3712	2.5331	2.6954	2.8580	28.9
53.1-55.0	61.2- 63.3	0.2092	0.3614	0.5163	0.6748	0.8364	1.0003	1.1662	1.3335	1.5020	1.6714	1.8417	2.0127	2.1842	2.3563	2.5288	2.7017	2.8749	3.0485	29.5
55.1-57.0	63.4- 65.5	0.2239	0.3855	0.5498	0.7179	0.8893	1.0634	1.2396	1.4173	1.5964	1.7766	1.9577	2.1396	2.3221	2.5051	2.6887	2.8726	3.0570	3.2417	30.0
57.1-59.0	65.6- 67.7	0.2391	0.4103	0.5839	0.7617	0.9431	1.1274	1.3140	1.5023	1.6922	1.8832	2.0752	2.2681	2.4616	2.6558	2.8506	3.0458	3.2415	3.4375	30.5
59.1-61.0	67.8- 69.9	0.2547	0.4356	0.6187	0.8062	0.9977	1.1922	1.3893	1.5884	1.7890	1.9910	2.1941	2.3981	2.6028	2.8083	3.0144	3.2210	3.4281	3.6355	30.9
61.1-63.0	70.0- 72.0	0.2709	0.4615	0.6542	0.8515	1.0530	1.2579	1.4655	1.6753	1.8869	2.0999	2.3141	2.5294	2.7455	2.9624	3.1799	3.3980	3.6166	3.8356	31.4
63.1-65.0	72.1- 74.2	0.2875	0.4881	0.6903	0.8973	1.1090	1.3243	1.5425	1.7632	1.9857	2.2099	2.4353	2.6619	2.8894	3.1178	3.3468	3.5765	3.8068	4.0375	31.8
65.1-67.0	74.3- 76.3	0.3047	0.5152	0.7270	0.9439	1.1656	1.3913	1.6203	1.8518	2.0854	2.3207	2.5575	2.7955	3.0345	3.2744	3.5151	3.7565	3.9985	4.2411	32.2
67.1-69.0	76.4- 78.5	0.3224	0.5430	0.7643	0.9910	1.2229	1.4591	1.6987	1.9411	2.1858	2.4324	2.6805	2.9300	3.1806	3.4321	3.6846	3.9377	4.1916	4.4460	32.6
69.1-71.0	78.6- 80.6	0.3407	0.5714	0.8023	1.0388	1.2808	1.5274	1.7778	2.0311	2.2869	2.5448	2.8043	3.0653	3.3275	3.5908	3.8550	4.1200	4.3857	4.6521	32.9
71.1-73.0	80.7- 82.7	0.3595	0.6004	0.8409	1.0871	1.3392	1.5963	1.8574	2.1217	2.3886	2.6578	2.9288	3.2013	3.4752	3.7502	4.0262	4.3031	4.5808	4.8591	33.3
73.1-75.0	82.8- 84.8	0.3789	0.6301	0.8800	1.1360	1.3982	1.6657	1.9375	2.2127	2.4908	2.7713	3.0538	3.3379	3.6235	3.9103	4.1981	4.4870	4.7766	5.0670	33.6
75.1-77.0	84.9- 86.8	0.3989	0.6603	0.9198	1.1855	1.4577	1.7356	2.0180	2.3042	2.5935	2.8853	3.1792	3.4750	3.7722	4.0708	4.3706	4.6714	4.9730	5.2755	33.9
77.1-79.0	86.9- 88.9	0.4195	0.6912	0.9602	1.2355	1.5177	1.8059	2.0990	2.3961	2.6965	2.9996	3.3050	3.6123	3.9213	4.2317	4.5434	4.8562	5.1699	5.4845	34.2
79.1-81.0	89.0- 90.9	0.4407	0.7228	1.0011	1.2860	1.5781	1.8766	2.1803	2.4883	2.7998	3.1142	3.4311	3.7500	4.0707	4.3929	4.7165	5.0412	5.3670	5.6937	34.5

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

SPECIES: WHITE SPRUCE
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	16.8- 19.1	0.0036	0.0056	0.0072	0.0086	0.0100	0.0115	0.0129	0.0144	0.0159	0.0174	0.0190	0.0205	0.0221	0.0237	0.0252	0.0268	0.0284	0.0300	13.0
17.1-19.0	19.2- 21.6	0.0118	0.0203	0.0284	0.0364	0.0442	0.0521	0.0599	0.0677	0.0755	0.0832	0.0910	0.0987	0.1065	0.1142	0.1220	0.1298	0.1375	0.1453	14.2
19.1-21.0	21.7- 24.0	0.0204	0.0358	0.0516	0.0676	0.0837	0.1000	0.1164	0.1329	0.1495	0.1661	0.1827	0.1994	0.2161	0.2328	0.2496	0.2664	0.2832	0.3000	15.5
21.1-23.0	24.1- 26.4	0.0289	0.0512	0.0741	0.0974	0.1210	0.1449	0.1689	0.1931	0.2173	0.2416	0.2660	0.2904	0.3149	0.3394	0.3640	0.3886	0.4132	0.4379	16.6
23.1-25.0	26.5- 28.8	0.0375	0.0665	0.0963	0.1268	0.1576	0.1888	0.2201	0.2516	0.2832	0.3149	0.3467	0.3786	0.4105	0.4424	0.4745	0.5065	0.5386	0.5707	17.8
25.1-27.0	28.9- 31.2	0.0463	0.0820	0.1189	0.1565	0.1946	0.2330	0.2717	0.3105	0.3496	0.3887	0.4279	0.4672	0.5066	0.5461	0.5856	0.6252	0.6648	0.7044	18.8
27.1-29.0	31.3- 33.6	0.0553	0.0980	0.1420	0.1869	0.2324	0.2782	0.3244	0.3708	0.4174	0.4642	0.5111	0.5580	0.6051	0.6522	0.6994	0.7467	0.7940	0.8414	19.8
29.1-31.0	33.7- 35.9	0.0647	0.1145	0.1658	0.2182	0.2713	0.3248	0.3787	0.4329	0.4873	0.5419	0.5967	0.6516	0.7065	0.7616	0.8168	0.8720	0.9273	0.9827	20.8
31.1-33.0	36.0- 38.3	0.0744	0.1316	0.1904	0.2505	0.3113	0.3728	0.4347	0.4970	0.5595	0.6222	0.6851	0.7482	0.8114	0.8747	0.9381	1.0015	1.0651	1.1287	21.8
33.1-35.0	38.4- 40.6	0.0844	0.1492	0.2158	0.2837	0.3527	0.4223	0.4925	0.5630	0.6339	0.7051	0.7764	0.8479	0.9196	0.9914	1.0634	1.1354	1.2075	1.2797	22.6
35.1-37.0	40.7- 42.9	0.0949	0.1674	0.2419	0.3180	0.3953	0.4733	0.5520	0.6312	0.7107	0.7905	0.8706	0.9508	1.0313	1.1119	1.1927	1.2736	1.3546	1.4356	23.5
37.1-39.0	43.1- 45.3	0.1057	0.1861	0.2689	0.3533	0.4391	0.5258	0.6133	0.7013	0.7897	0.8784	0.9675	1.0568	1.1463	1.2361	1.3259	1.4159	1.5061	1.5963	24.3
39.1-41.0	45.4- 47.6	0.1169	0.2055	0.2966	0.3896	0.4842	0.5798	0.6762	0.7733	0.8708	0.9688	1.0672	1.1658	1.2646	1.3637	1.4629	1.5624	1.6619	1.7617	25.1
41.1-43.0	47.7- 49.8	0.1285	0.2255	0.3251	0.4269	0.5304	0.6351	0.7407	0.8471	0.9541	1.0615	1.1694	1.2775	1.3860	1.4947	1.6036	1.7127	1.8220	1.9314	25.8
43.1-45.0	50.0- 52.1	0.1406	0.2462	0.3544	0.4651	0.5777	0.6917	0.8068	0.9227	1.0393	1.1564	1.2740	1.3920	1.5103	1.6288	1.7476	1.8667	1.9859	2.1053	26.5
45.1-47.0	52.2- 54.4	0.1530	0.2674	0.3845	0.5043	0.6262	0.7496	0.8743	1.0000	1.1264	1.2534	1.3810	1.5090	1.6373	1.7660	1.8949	2.0241	2.1535	2.2831	27.1
47.1-49.0	54.5- 56.6	0.1659	0.2892	0.4152	0.5443	0.6756	0.8087	0.9432	1.0788	1.2152	1.3524	1.4901	1.6283	1.7669	1.9059	2.0452	2.1848	2.3246	2.4647	27.8
49.1-51.0	56.7- 58.9	0.1793	0.3116	0.4467	0.5851	0.7260	0.8690	1.0134	1.1591	1.3057	1.4532	1.6012	1.7499	1.8989	2.0485	2.1983	2.3485	2.4989	2.6496	28.4
51.1-53.0	59.0- 61.1	0.1931	0.3346	0.4789	0.6268	0.7774	0.9303	1.0848	1.2407	1.3977	1.5556	1.7142	1.8735	2.0332	2.1934	2.3540	2.5150	2.6763	2.8378	28.9
53.1-55.0	61.2- 63.3	0.2073	0.3582	0.5118	0.6692	0.8297	0.9926	1.1574	1.3237	1.4912	1.6597	1.8290	1.9990	2.1695	2.3406	2.5122	2.6841	2.8563	3.0289	29.5
55.1-57.0	63.4- 65.5	0.2220	0.3824	0.5454	0.7124	0.8828	1.0558	1.2310	1.4078	1.5859	1.7652	1.9453	2.1262	2.3078	2.4899	2.6725	2.8555	3.0390	3.2227	30.0
57.1-59.0	65.6- 67.7	0.2372	0.4072	0.5796	0.7563	0.9367	1.1200	1.3056	1.4930	1.6819	1.8720	2.0631	2.2550	2.4477	2.6410	2.8348	3.0292	3.2239	3.4190	30.5
59.1-61.0	67.8- 69.9	0.2529	0.4326	0.6145	0.8010	0.9914	1.1850	1.3811	1.5792	1.7790	1.9800	2.1822	2.3853	2.5892	2.7938	2.9990	3.2047	3.4109	3.6175	30.9
61.1-63.0	70.0- 72.0	0.2691	0.4586	0.6501	0.8463	1.0468	1.2508	1.4575	1.6664	1.8771	2.0892	2.3025	2.5169	2.7322	2.9482	3.1648	3.3821	3.5998	3.8180	31.4
63.1-65.0	72.1- 74.2	0.2858	0.4852	0.6863	0.8923	1.1029	1.3173	1.5346	1.7544	1.9761	2.1994	2.4240	2.6497	2.8764	3.1039	3.3321	3.5610	3.7904	4.0203	31.8
65.1-67.0	74.3- 76.3	0.3030	0.5124	0.7231	0.9389	1.1597	1.3845	1.6125	1.8432	2.0759	2.3104	2.5463	2.7835	3.0217	3.2608	3.5007	3.7412	3.9824	4.2242	32.2
67.1-69.0	76.4- 78.5	0.3208	0.5402	0.7605	0.9861	1.2171	1.4523	1.6911	1.9326	2.1765	2.4222	2.6696	2.9182	3.1680	3.4187	3.6704	3.9227	4.1757	4.4294	32.6
69.1-71.0	78.6- 80.6	0.3391	0.5687	0.7985	1.0340	1.2750	1.5207	1.7702	2.0227	2.2777	2.5348	2.7935	3.0537	3.3151	3.5776	3.8410	4.1052	4.3702	4.6357	32.9
71.1-73.0	80.7- 82.7	0.3580	0.5977	0.8371	1.0824	1.3336	1.5897	1.8499	2.1134	2.3796	2.6479	2.9181	3.1899	3.4630	3.7372	4.0125	4.2886	4.5655	4.8431	33.3
73.1-75.0	82.8- 84.8	0.3774	0.6274	0.8763	1.1313	1.3926	1.6592	1.9301	2.2046	2.4819	2.7616	3.0433	3.3266	3.6114	3.8974	4.1846	4.4726	4.7615	5.0512	33.6
75.1-77.0	84.9- 86.8	0.3974	0.6577	0.9161	1.1808	1.4522	1.7292	2.0108	2.2962	2.5846	2.8757	3.1688	3.4638	3.7603	4.0582	4.3572	4.6572	4.9581	5.2599	33.9
77.1-79.0	86.9- 88.9	0.4180	0.6887	0.9565	1.2309	1.5122	1.7995	2.0918	2.3881	2.6877	2.9901	3.2947	3.6013	3.9095	4.2192	4.5301	4.8422	5.1552	5.4690	34.2
79.1-81.0	89.0- 90.9	0.4393	0.7202	0.9975	1.2814	1.5727	1.8703	2.1732	2.4804	2.7911	3.1048	3.4209	3.7391	4.0590	4.3805	4.7034	5.0274	5.3524	5.6784	34.5

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, 12, 13, 15, 16

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

Table 11. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	5.3- 7.5	0.0017	0.0030	0.0043	0.0056	0.0069	0.0082	0.0095	0.0108	0.0122	0.0135	0.0148	0.0161	0.0174	0.0188	0.0201	0.0214	0.0228	0.0241	6.5
7.1- 9.0	7.6- 9.8	0.0056	0.0093	0.0130	0.0168	0.0205	0.0243	0.0280	0.0318	0.0356	0.0393	0.0431	0.0469	0.0507	0.0545	0.0583	0.0621	0.0659	0.0697	8.5
9.1-11.0	9.9- 12.1	0.0097	0.0160	0.0224	0.0287	0.0351	0.0415	0.0479	0.0543	0.0607	0.0672	0.0736	0.0800	0.0865	0.0929	0.0994	0.1059	0.1123	0.1188	10.4
11.1-13.0	12.2- 14.4	0.0143	0.0236	0.0330	0.0424	0.0518	0.0613	0.0707	0.0802	0.0897	0.0991	0.1086	0.1182	0.1277	0.1372	0.1467	0.1563	0.1658	0.1754	12.3
13.1-15.0	14.5- 16.7	0.0195	0.0323	0.0451	0.0580	0.0709	0.0838	0.0967	0.1097	0.1227	0.1357	0.1487	0.1617	0.1748	0.1878	0.2009	0.2139	0.2270	0.2401	14.0
15.1-17.0	16.8- 19.0	0.0253	0.0419	0.0586	0.0754	0.0923	0.1091	0.1260	0.1429	0.1599	0.1769	0.1938	0.2108	0.2278	0.2449	0.2619	0.2790	0.2960	0.3131	15.6
17.1-19.0	19.1- 21.3	0.0316	0.0526	0.0737	0.0948	0.1160	0.1373	0.1586	0.1799	0.2013	0.2226	0.2440	0.2655	0.2869	0.3084	0.3298	0.3513	0.3728	0.3944	17.1
19.1-21.0	21.4- 23.6	0.0385	0.0642	0.0901	0.1161	0.1421	0.1682	0.1943	0.2205	0.2467	0.2730	0.2992	0.3255	0.3519	0.3782	0.4046	0.4310	0.4574	0.4838	18.4
21.1-23.0	23.7- 25.9	0.0459	0.0768	0.1079	0.1391	0.1704	0.2018	0.2332	0.2647	0.2962	0.3278	0.3594	0.3910	0.4226	0.4543	0.4860	0.5178	0.5495	0.5813	19.7
23.1-25.0	26.0- 28.2	0.0539	0.0904	0.1271	0.1640	0.2010	0.2381	0.2752	0.3124	0.3497	0.3870	0.4243	0.4617	0.4991	0.5366	0.5741	0.6116	0.6491	0.6867	20.8
25.1-27.0	28.3- 30.5	0.0623	0.1048	0.1477	0.1906	0.2338	0.2770	0.3203	0.3636	0.4070	0.4505	0.4941	0.5376	0.5813	0.6249	0.6686	0.7124	0.7561	0.7999	21.9
27.1-29.0	30.6- 32.7	0.0713	0.1202	0.1695	0.2190	0.2686	0.3184	0.3683	0.4182	0.4682	0.5183	0.5685	0.6186	0.6689	0.7192	0.7695	0.8199	0.8703	0.9208	22.8
29.1-31.0	32.8- 35.0	0.0807	0.1364	0.1926	0.2490	0.3056	0.3623	0.4192	0.4761	0.5331	0.5902	0.6474	0.7046	0.7619	0.8193	0.8767	0.9341	0.9916	1.0492	23.6
31.1-33.0	35.1- 37.3	0.0906	0.1535	0.2169	0.2806	0.3446	0.4087	0.4729	0.5373	0.6017	0.6662	0.7309	0.7956	0.8603	0.9251	0.9900	1.0549	1.1199	1.1849	24.4
33.1-35.0	37.4- 39.6	0.1009	0.1714	0.2424	0.3139	0.3855	0.4574	0.5294	0.6016	0.6739	0.7462	0.8187	0.8913	0.9639	1.0366	1.1093	1.1821	1.2550	1.3280	25.1
35.1-37.0	39.7- 41.8	0.1116	0.1900	0.2691	0.3487	0.4285	0.5085	0.5887	0.6691	0.7496	0.8302	0.9109	0.9917	1.0726	1.1535	1.2346	1.3157	1.3969	1.4781	25.7
37.1-39.0	42.0- 44.1	0.1228	0.2095	0.2970	0.3850	0.4733	0.5619	0.6507	0.7396	0.8287	0.9179	1.0073	1.0967	1.1863	1.2759	1.3656	1.4554	1.5453	1.6352	26.3
39.1-41.0	44.2- 46.4	0.1344	0.2298	0.3260	0.4228	0.5200	0.6175	0.7152	0.8132	0.9113	1.0095	1.1079	1.2063	1.3049	1.4036	1.5024	1.6013	1.7002	1.7993	26.8
41.1-43.0	46.5- 48.7	0.1465	0.2508	0.3561	0.4621	0.5686	0.6753	0.7824	0.8897	0.9971	1.1047	1.2125	1.3204	1.4284	1.5365	1.6448	1.7531	1.8615	1.9700	27.2
43.1-45.0	48.8- 50.9	0.1589	0.2725	0.3873	0.5029	0.6189	0.7353	0.8521	0.9690	1.0862	1.2036	1.3211	1.4388	1.5566	1.6746	1.7926	1.9108	2.0290	2.1474	27.6
45.1-47.0	51.0- 53.2	0.1717	0.2950	0.4196	0.5450	0.6710	0.7974	0.9242	1.0512	1.1785	1.3060	1.4337	1.5615	1.6895	1.8176	1.9459	2.0743	2.2027	2.3313	28.0
47.1-49.0	53.3- 55.4	0.1849	0.3181	0.4529	0.5885	0.7248	0.8616	0.9988	1.1362	1.2740	1.4119	1.5501	1.6885	1.8270	1.9657	2.1045	2.2434	2.3824	2.5216	28.3
49.1-51.0	55.6- 57.7	0.1985	0.3420	0.4872	0.6334	0.7803	0.9278	1.0757	1.2240	1.3725	1.5213	1.6703	1.8195	1.9689	2.1185	2.2682	2.4181	2.5681	2.7182	28.6
51.1-53.0	57.8- 60.0	0.2125	0.3666	0.5225	0.6796	0.8375	0.9960	1.1550	1.3143	1.4740	1.6340	1.7942	1.9547	2.1153	2.2761	2.4371	2.5982	2.7595	2.9209	28.9
53.1-55.0	60.1- 62.2	0.2269	0.3918	0.5588	0.7271	0.8963	1.0661	1.2365	1.4073	1.5785	1.7500	1.9218	2.0938	2.2660	2.4384	2.6110	2.7837	2.9566	3.1297	29.1
55.1-57.0	62.3- 64.5	0.2416	0.4177	0.5961	0.7758	0.9566	1.1382	1.3203	1.5029	1.6859	1.8693	2.0529	2.2368	2.4209	2.6053	2.7898	2.9745	3.1594	3.3445	29.3
57.1-59.0	64.6- 66.7	0.2567	0.4443	0.6343	0.8259	1.0186	1.2121	1.4063	1.6010	1.7962	1.9917	2.1875	2.3836	2.5800	2.7766	2.9734	3.1705	3.3677	3.5650	29.5
59.1-61.0	66.8- 69.0	0.2722	0.4715	0.6734	0.8771	1.0821	1.2879	1.4945	1.7016	1.9092	2.1172	2.3256	2.5343	2.7432	2.9524	3.1619	3.3715	3.5813	3.7914	29.7
61.1-63.0	69.1- 71.2	0.2880	0.4994	0.7135	0.9296	1.1471	1.3655	1.5847	1.8046	2.0250	2.2458	2.4670	2.6886	2.9104	3.1325	3.3549	3.5775	3.8003	4.0233	29.9
63.1-65.0	71.3- 73.5	0.3042	0.5278	0.7545	0.9833	1.2135	1.4449	1.6771	1.9100	2.1435	2.3774	2.6118	2.8465	3.0816	3.3169	3.5526	3.7884	4.0245	4.2608	30.0
65.1-67.0	73.6- 75.7	0.3208	0.5570	0.7964	1.0381	1.2814	1.5260	1.7715	2.0177	2.2646	2.5119	2.7598	3.0080	3.2566	3.5055	3.7547	4.0041	4.2539	4.5038	30.1
67.1-69.0	75.8- 77.9	0.3377	0.5867	0.8392	1.0941	1.3508	1.6088	1.8679	2.1277	2.3883	2.6494	2.9110	3.1730	3.4354	3.6982	3.9612	4.2246	4.4882	4.7521	30.2
69.1-71.0	78.1- 80.2	0.3550	0.6170	0.8828	1.1512	1.4215	1.6933	1.9662	2.2400	2.5145	2.7897	3.0653	3.3414	3.6180	3.8949	4.1721	4.4497	4.7275	5.0056	30.3
71.1-73.0	80.3- 82.4	0.3726	0.6480	0.9273	1.2094	1.4937	1.7795	2.0665	2.3545	2.6433	2.9327	3.2227	3.5132	3.8042	4.0956	4.3873	4.6793	4.9716	5.2642	30.4
73.1-75.0	82.5- 84.6	0.3906	0.6795	0.9726	1.2688	1.5672	1.8673	2.1687	2.4712	2.7745	3.0785	3.3832	3.6884	3.9940	4.3001	4.6066	4.9134	5.2205	5.5280	30.5
75.1-77.0	84.8- 86.9	0.4090	0.7117	1.0188	1.3292	1.6420	1.9567	2.2727	2.5900	2.9081	3.2270	3.5466	3.8667	4.1874	4.5085	4.8300	5.1519	5.4741	5.7966	30.6
77.1-79.0	87.0- 89.1	0.4277	0.7445	1.0658	1.3906	1.7181	2.0476	2.3786	2.7108	3.0441	3.3781	3.7129	4.0482	4.3842	4.7206	5.0574	5.3947	5.7323	6.0702	30.6
79.1-81.0	89.2- 91.3	0.4468	0.7778	1.1136	1.4532	1.7956	2.1401	2.4863	2.8338	3.1823	3.5318	3.8820	4.2329	4.5844	4.9364	5.2888	5.6417	5.9949	6.3485	30.7

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	7.6- 9.8	0.0020	0.0036	0.0053	0.0069	0.0086	0.0103	0.0120	0.0137	0.0153	0.0170	0.0187	0.0204	0.0221	0.0238	0.0255	0.0272	0.0289	0.0306	8.5
9.1-11.0	9.9- 12.1	0.0073	0.0123	0.0174	0.0225	0.0276	0.0328	0.0379	0.0430	0.0482	0.0533	0.0585	0.0637	0.0688	0.0740	0.0792	0.0844	0.0896	0.0947	10.4
11.1-13.0	12.2- 14.4	0.0125	0.0209	0.0293	0.0378	0.0463	0.0548	0.0633	0.0718	0.0804	0.0890	0.0975	0.1061	0.1147	0.1233	0.1319	0.1405	0.1491	0.1577	12.3
13.1-15.0	14.5- 16.7	0.0180	0.0300	0.0421	0.0542	0.0664	0.0786	0.0908	0.1030	0.1153	0.1275	0.1398	0.1520	0.1643	0.1766	0.1889	0.2012	0.2136	0.2259	14.0
15.1-17.0	16.8- 19.0	0.0240	0.0400	0.0561	0.0723	0.0885	0.1048	0.1210	0.1373	0.1536	0.1700	0.1863	0.2027	0.2191	0.2355	0.2519	0.2683	0.2847	0.3012	15.6
17.1-19.0	19.1- 21.3	0.0305	0.0509	0.0715	0.0921	0.1128	0.1335	0.1542	0.1750	0.1958	0.2167	0.2375	0.2584	0.2793	0.3002	0.3212	0.3421	0.3631	0.3840	17.1
19.1-21.0	21.4- 23.6	0.0375	0.0627	0.0881	0.1136	0.1392	0.1648	0.1905	0.2162	0.2419	0.2677	0.2935	0.3193	0.3452	0.3710	0.3969	0.4228	0.4487	0.4747	18.4
21.1-23.0	23.7- 25.9	0.0450	0.0755	0.1062	0.1370	0.1678	0.1988	0.2298	0.2608	0.2919	0.3231	0.3542	0.3854	0.4166	0.4479	0.4792	0.5105	0.5418	0.5731	19.7
23.1-25.0	26.0- 28.2	0.0530	0.0891	0.1255	0.1620	0.1986	0.2353	0.2721	0.3089	0.3458	0.3827	0.4197	0.4567	0.4937	0.5308	0.5678	0.6050	0.6421	0.6793	20.8
25.1-27.0	28.3- 30.5	0.0615	0.1037	0.1461	0.1888	0.2316	0.2744	0.3174	0.3604	0.4035	0.4466	0.4898	0.5330	0.5763	0.6196	0.6629	0.7063	0.7497	0.7931	21.9
27.1-29.0	30.6- 32.7	0.0705	0.1191	0.1681	0.2173	0.2666	0.3160	0.3656	0.4152	0.4649	0.5147	0.5645	0.6144	0.6643	0.7142	0.7642	0.8143	0.8644	0.9145	22.8
29.1-31.0	32.8- 35.0	0.0800	0.1354	0.1912	0.2474	0.3037	0.3601	0.4167	0.4733	0.5300	0.5868	0.6437	0.7006	0.7576	0.8147	0.8718	0.9289	0.9861	1.0433	23.6
31.1-33.0	35.1- 37.3	0.0899	0.1525	0.2156	0.2791	0.3428	0.4066	0.4706	0.5346	0.5988	0.6631	0.7274	0.7918	0.8563	0.9208	0.9854	1.0500	1.1147	1.1794	24.4
33.1-35.0	37.4- 39.6	0.1002	0.1704	0.2412	0.3124	0.3838	0.4555	0.5272	0.5991	0.6711	0.7432	0.8154	0.8877	0.9601	1.0325	1.1050	1.1775	1.2501	1.3227	25.1
35.1-37.0	39.7- 41.8	0.1110	0.1891	0.2680	0.3473	0.4269	0.5066	0.5866	0.6667	0.7470	0.8273	0.9078	0.9883	1.0690	1.1497	1.2304	1.3113	1.3922	1.4732	25.7
37.1-39.0	42.0- 44.1	0.1222	0.2087	0.2959	0.3837	0.4718	0.5601	0.6487	0.7374	0.8262	0.9152	1.0043	1.0935	1.1828	1.2722	1.3617	1.4512	1.5408	1.6305	26.3
39.1-41.0	44.2- 46.4	0.1338	0.2289	0.3250	0.4216	0.5185	0.6158	0.7133	0.8110	0.9089	1.0069	1.1050	1.2033	1.3016	1.4001	1.4986	1.5973	1.6960	1.7947	26.8
41.1-43.0	46.5- 48.7	0.1459	0.2500	0.3551	0.4609	0.5671	0.6737	0.7805	0.8876	0.9948	1.1022	1.2098	1.3175	1.4252	1.5331	1.6411	1.7492	1.8574	1.9657	27.2
43.1-45.0	48.8- 50.9	0.1583	0.2717	0.3863	0.5017	0.6175	0.7338	0.8503	0.9671	1.0840	1.2012	1.3185	1.4360	1.5536	1.6713	1.7891	1.9071	2.0251	2.1432	27.6
45.1-47.0	51.0- 53.2	0.1712	0.2942	0.4186	0.5438	0.6697	0.7959	0.9225	1.0493	1.1764	1.3037	1.4312	1.5588	1.6866	1.8145	1.9425	2.0707	2.1989	2.3273	28.0
47.1-49.0	53.3- 55.4	0.1844	0.3174	0.4519	0.5874	0.7235	0.8601	0.9971	1.1344	1.2719	1.4097	1.5477	1.6858	1.8241	1.9626	2.1012	2.2399	2.3787	2.5177	28.3
49.1-51.0	55.6- 57.7	0.1980	0.3413	0.4863	0.6323	0.7791	0.9264	1.0741	1.2221	1.3705	1.5191	1.6679	1.8170	1.9662	2.1155	2.2650	2.4147	2.5645	2.7144	28.6
51.1-53.0	57.8- 60.0	0.2120	0.3659	0.5216	0.6785	0.8362	0.9946	1.1534	1.3126	1.4721	1.6319	1.7919	1.9522	2.1126	2.2732	2.4340	2.5949	2.7560	2.9172	28.9
53.1-55.0	60.1- 62.2	0.2263	0.3911	0.5579	0.7260	0.8951	1.0648	1.2350	1.4056	1.5766	1.7479	1.9195	2.0913	2.2634	2.4356	2.6080	2.7805	2.9532	3.1261	29.1
55.1-57.0	62.3- 64.5	0.2411	0.4170	0.5952	0.7748	0.9555	1.1368	1.3188	1.5012	1.6841	1.8672	2.0507	2.2344	2.4183	2.6025	2.7869	2.9714	3.1561	3.3409	29.3
57.1-59.0	64.6- 66.7	0.2562	0.4436	0.6334	0.8249	1.0174	1.2108	1.4048	1.5994	1.7944	1.9897	2.1854	2.3813	2.5775	2.7739	2.9706	3.1674	3.3644	3.5616	29.5
59.1-61.0	66.8- 69.0	0.2717	0.4708	0.6726	0.8762	1.0809	1.2866	1.4930	1.7000	1.9074	2.1153	2.3235	2.5320	2.7407	2.9498	3.1590	3.3685	3.5781	3.7880	29.7
61.1-63.0	69.1- 71.2	0.2875	0.4987	0.7127	0.9286	1.1459	1.3642	1.5833	1.8030	2.0232	2.2439	2.4649	2.6863	2.9080	3.1299	3.3521	3.5746	3.7972	4.0200	29.9
63.1-65.0	71.3- 73.5	0.3037	0.5272	0.7537	0.9823	1.2124	1.4436	1.6757	1.9084	2.1417	2.3755	2.6097	2.8443	3.0792	3.3144	3.5498	3.7855	4.0214	4.2576	30.0
65.1-67.0	73.6- 75.7	0.3203	0.5563	0.7956	1.0372	1.2804	1.5248	1.7701	2.0162	2.2629	2.5101	2.7578	3.0058	3.2542	3.5030	3.7520	4.0013	4.2508	4.5005	30.1
67.1-69.0	75.8- 77.9	0.3372	0.5860	0.8384	1.0932	1.3497	1.6076	1.8665	2.1262	2.3866	2.6476	2.9090	3.1709	3.4331	3.6957	3.9586	4.2217	4.4852	4.7488	30.2
69.1-71.0	78.1- 80.2	0.3545	0.6164	0.8820	1.1503	1.4205	1.6921	1.9649	2.2385	2.5129	2.7878	3.0634	3.3393	3.6157	3.8924	4.1695	4.4469	4.7245	5.0024	30.3
71.1-73.0	80.3- 82.4	0.3721	0.6474	0.9265	1.2085	1.4926	1.7783	2.0652	2.3530	2.6416	2.9309	3.2208	3.5111	3.8019	4.0931	4.3846	4.6765	4.9687	5.2611	30.4
73.1-75.0	82.5- 84.6	0.3901	0.6789	0.9718	1.2678	1.5661	1.8661	2.1674	2.4697	2.7729	3.0767	3.3812	3.6863	3.9918	4.2977	4.6040	4.9106	5.2176	5.5248	30.5
75.1-77.0	84.8- 86.9	0.4085	0.7111	1.0180	1.3283	1.6410	1.9555	2.2714	2.5885	2.9065	3.2252	3.5446	3.8646	4.1851	4.5061	4.8274	5.1491	5.4712	5.7936	30.6
77.1-79.0	87.0- 89.1	0.4272	0.7438	1.0650	1.3897	1.7171	2.0464	2.3773	2.7094	3.0425	3.3764	3.7110	4.0462	4.3819	4.7182	5.0549	5.3919	5.7294	6.0671	30.6
79.1-81.0	89.2- 91.3	0.4463	0.7772	1.1128	1.4523	1.7945	2.1389	2.4850	2.8323	3.1808	3.5301	3.8801	4.2309	4.5822	4.9340	5.2863	5.6390	5.9920	6.3455	30.7

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 10.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	12.2- 14.4	0.0058	0.0102	0.0147	0.0192	0.0237	0.0282	0.0327	0.0372	0.0418	0.0463	0.0509	0.0554	0.0600	0.0645	0.0691	0.0737	0.0783	0.0829	12.3
13.1-15.0	14.5- 16.7	0.0129	0.0220	0.0312	0.0405	0.0498	0.0592	0.0685	0.0779	0.0873	0.0967	0.1061	0.1155	0.1249	0.1344	0.1438	0.1533	0.1627	0.1722	14.0
15.1-17.0	16.8- 19.0	0.0198	0.0335	0.0474	0.0613	0.0753	0.0893	0.1034	0.1174	0.1315	0.1456	0.1597	0.1738	0.1879	0.2021	0.2162	0.2304	0.2446	0.2587	15.6
17.1-19.0	19.1- 21.3	0.0269	0.0454	0.0641	0.0829	0.1017	0.1206	0.1395	0.1584	0.1773	0.1963	0.2153	0.2343	0.2533	0.2724	0.2914	0.3105	0.3295	0.3486	17.1
19.1-21.0	21.4- 23.6	0.0343	0.0579	0.0817	0.1056	0.1296	0.1536	0.1777	0.2018	0.2259	0.2501	0.2743	0.2985	0.3227	0.3470	0.3712	0.3955	0.4198	0.4441	18.4
21.1-23.0	23.7- 25.9	0.0421	0.0712	0.1005	0.1298	0.1593	0.1889	0.2185	0.2481	0.2778	0.3075	0.3372	0.3670	0.3968	0.4266	0.4565	0.4863	0.5162	0.5461	19.7
23.1-25.0	26.0- 28.2	0.0504	0.0852	0.1203	0.1556	0.1910	0.2264	0.2619	0.2975	0.3331	0.3687	0.4044	0.4401	0.4759	0.5117	0.5475	0.5833	0.6192	0.6551	20.8
25.1-27.0	28.3- 30.5	0.0591	0.1001	0.1414	0.1829	0.2245	0.2663	0.3081	0.3500	0.3919	0.4339	0.4759	0.5180	0.5601	0.6022	0.6444	0.6866	0.7288	0.7711	21.9
27.1-29.0	30.6- 32.7	0.0683	0.1158	0.1637	0.2118	0.2601	0.3085	0.3570	0.4056	0.4543	0.5030	0.5517	0.6005	0.6494	0.6983	0.7472	0.7962	0.8452	0.8943	22.8
29.1-31.0	32.8- 35.0	0.0778	0.1323	0.1872	0.2423	0.2977	0.3531	0.4087	0.4644	0.5202	0.5760	0.6319	0.6879	0.7439	0.7999	0.8560	0.9122	0.9683	1.0246	23.6
31.1-33.0	35.1- 37.3	0.0879	0.1495	0.2118	0.2744	0.3371	0.4001	0.4631	0.5263	0.5896	0.6530	0.7164	0.7799	0.8434	0.9070	0.9707	1.0344	1.0982	1.1620	24.4
33.1-35.0	37.4- 39.6	0.0983	0.1676	0.2376	0.3079	0.3785	0.4493	0.5203	0.5913	0.6625	0.7338	0.8051	0.8765	0.9480	1.0196	1.0912	1.1629	1.2346	1.3064	25.1
35.1-37.0	39.7- 41.8	0.1092	0.1865	0.2646	0.3430	0.4218	0.5008	0.5800	0.6594	0.7388	0.8184	0.8980	0.9778	1.0576	1.1375	1.2175	1.2975	1.3776	1.4577	25.7
37.1-39.0	42.0- 44.1	0.1204	0.2061	0.2926	0.3796	0.4670	0.5546	0.6424	0.7304	0.8185	0.9068	0.9951	1.0836	1.1721	1.2607	1.3494	1.4382	1.5270	1.6159	26.3
39.1-41.0	44.2- 46.4	0.1321	0.2265	0.3218	0.4177	0.5140	0.6106	0.7074	0.8044	0.9015	0.9988	1.0963	1.1938	1.2914	1.3892	1.4870	1.5849	1.6828	1.7809	26.8
41.1-43.0	46.5- 48.7	0.1442	0.2476	0.3521	0.4572	0.5628	0.6687	0.7749	0.8812	0.9878	1.0945	1.2014	1.3084	1.4155	1.5227	1.6300	1.7374	1.8449	1.9525	27.2
43.1-45.0	48.8- 50.9	0.1567	0.2694	0.3834	0.4981	0.6133	0.7289	0.8448	0.9610	1.0773	1.1938	1.3105	1.4273	1.5443	1.6613	1.7785	1.8958	2.0131	2.1306	27.6
45.1-47.0	51.0- 53.2	0.1696	0.2920	0.4158	0.5404	0.6656	0.7913	0.9172	1.0435	1.1700	1.2966	1.4235	1.5505	1.6776	1.8049	1.9323	2.0598	2.1874	2.3151	28.0
47.1-49.0	53.3- 55.4	0.1829	0.3152	0.4492	0.5841	0.7196	0.8556	0.9920	1.1287	1.2657	1.4029	1.5403	1.6778	1.8155	1.9534	2.0914	2.2295	2.3677	2.5060	28.3
49.1-51.0	55.6- 57.7	0.1965	0.3392	0.4836	0.6291	0.7753	0.9220	1.0692	1.2167	1.3645	1.5125	1.6608	1.8092	1.9579	2.1066	2.2556	2.4046	2.5538	2.7031	28.6
51.1-53.0	57.8- 60.0	0.2105	0.3638	0.5190	0.6754	0.8326	0.9904	1.1486	1.3073	1.4663	1.6255	1.7850	1.9447	2.1046	2.2646	2.4248	2.5852	2.7457	2.9063	28.9
53.1-55.0	60.1- 62.2	0.2249	0.3891	0.5554	0.7230	0.8915	1.0607	1.2304	1.4005	1.5710	1.7418	1.9128	2.0841	2.2556	2.4272	2.5991	2.7711	2.9432	3.1155	29.1
55.1-57.0	62.3- 64.5	0.2397	0.4151	0.5927	0.7718	0.9520	1.1329	1.3143	1.4963	1.6786	1.8612	2.0442	2.2274	2.4108	2.5944	2.7782	2.9622	3.1464	3.3307	29.3
57.1-59.0	64.6- 66.7	0.2548	0.4417	0.6310	0.8220	1.0140	1.2069	1.4005	1.5945	1.7890	1.9838	2.1790	2.3744	2.5701	2.7661	2.9622	3.1585	3.3550	3.5516	29.5
59.1-61.0	66.8- 69.0	0.2703	0.4689	0.6702	0.8733	1.0776	1.2828	1.4888	1.6952	1.9022	2.1096	2.3173	2.5253	2.7336	2.9421	3.1508	3.3598	3.5689	3.7782	29.7
61.1-63.0	69.1- 71.2	0.2862	0.4968	0.7104	0.9258	1.1427	1.3605	1.5791	1.7984	2.0181	2.2383	2.4589	2.6798	2.9010	3.1224	3.3441	3.5661	3.7882	4.0105	29.9
63.1-65.0	71.3- 73.5	0.3024	0.5254	0.7514	0.9796	1.2092	1.4400	1.6716	1.9039	2.1367	2.3701	2.6038	2.8379	3.0723	3.3070	3.5420	3.7772	4.0126	4.2483	30.0
65.1-67.0	73.6- 75.7	0.3190	0.5545	0.7933	1.0345	1.2772	1.5212	1.7661	2.0117	2.2580	2.5048	2.7520	2.9996	3.2475	3.4958	3.7443	3.9931	4.2422	4.4914	30.1
67.1-69.0	75.8- 77.9	0.3359	0.5843	0.8361	1.0905	1.3466	1.6041	1.8626	2.1219	2.3818	2.6423	2.9033	3.1647	3.4265	3.6886	3.9511	4.2138	4.4767	4.7399	30.2
69.1-71.0	78.1- 80.2	0.3532	0.6146	0.8798	1.1477	1.4174	1.6887	1.9610	2.2342	2.5082	2.7827	3.0578	3.3333	3.6092	3.8855	4.1621	4.4390	4.7162	4.9936	30.3
71.1-73.0	80.3- 82.4	0.3709	0.6456	0.9243	1.2059	1.4896	1.7749	2.0614	2.3488	2.6370	2.9259	3.2153	3.5052	3.7956	4.0863	4.3774	4.6688	4.9605	5.2525	30.4
73.1-75.0	82.5- 84.6	0.3889	0.6772	0.9697	1.2653	1.5632	1.8627	2.1636	2.4655	2.7683	3.0718	3.3758	3.6804	3.9855	4.2910	4.5968	4.9030	5.2096	5.5164	30.5
75.1-77.0	84.8- 86.9	0.4073	0.7094	1.0159	1.3257	1.6380	1.9522	2.2677	2.5844	2.9020	3.2203	3.5393	3.8589	4.1790	4.4995	4.8204	5.1417	5.4633	5.7852	30.6
77.1-79.0	87.0- 89.1	0.4260	0.7422	1.0629	1.3872	1.7142	2.0432	2.3737	2.7053	3.0380	3.3715	3.7057	4.0405	4.3759	4.7117	5.0479	5.3846	5.7216	6.0589	30.6
79.1-81.0	89.2- 91.3	0.4451	0.7755	1.1107	1.4498	1.7917	2.1357	2.4814	2.8283	3.1764	3.5253	3.8749	4.2253	4.5761	4.9276	5.2794	5.6317	5.9843	6.3373	30.7

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

Table 14. Merchantable volume (m^3) from 0.30 m stump height to 11.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	12.2- 14.4	0.0022	0.0043	0.0065	0.0086	0.0107	0.0129	0.0150	0.0172	0.0193	0.0215	0.0237	0.0258	0.0280	0.0302	0.0324	0.0346	0.0368	0.0390	12.3
13.1-15.0	14.5- 16.7	0.0099	0.0173	0.0247	0.0322	0.0396	0.0471	0.0547	0.0622	0.0698	0.0773	0.0849	0.0925	0.1001	0.1076	0.1152	0.1228	0.1305	0.1381	14.0
15.1-17.0	16.8- 19.0	0.0174	0.0299	0.0424	0.0550	0.0676	0.0803	0.0930	0.1057	0.1185	0.1312	0.1440	0.1568	0.1695	0.1823	0.1951	0.2080	0.2208	0.2336	15.6
17.1-19.0	19.1- 21.3	0.0249	0.0424	0.0600	0.0777	0.0955	0.1133	0.1311	0.1490	0.1669	0.1848	0.2027	0.2206	0.2386	0.2565	0.2745	0.2925	0.3105	0.3285	17.1
19.1-21.0	21.4- 23.6	0.0326	0.0554	0.0783	0.1013	0.1243	0.1475	0.1707	0.1939	0.2171	0.2404	0.2637	0.2870	0.3103	0.3337	0.3570	0.3804	0.4038	0.4272	18.4
21.1-23.0	23.7- 25.9	0.0407	0.0689	0.0974	0.1260	0.1547	0.1835	0.2123	0.2412	0.2701	0.2990	0.3280	0.3570	0.3860	0.4151	0.4441	0.4732	0.5023	0.5315	19.7
23.1-25.0	26.0- 28.2	0.0491	0.0832	0.1176	0.1522	0.1869	0.2216	0.2564	0.2913	0.3263	0.3612	0.3962	0.4313	0.4663	0.5014	0.5365	0.5717	0.6069	0.6420	20.8
25.1-27.0	28.3- 30.5	0.0579	0.0982	0.1389	0.1798	0.2208	0.2620	0.3032	0.3444	0.3857	0.4271	0.4685	0.5100	0.5515	0.5930	0.6345	0.6761	0.7177	0.7594	21.9
27.1-29.0	30.6- 32.7	0.0671	0.1141	0.1614	0.2090	0.2567	0.3046	0.3525	0.4006	0.4486	0.4968	0.5450	0.5932	0.6415	0.6899	0.7382	0.7867	0.8351	0.8836	22.8
29.1-31.0	32.8- 35.0	0.0768	0.1307	0.1850	0.2397	0.2945	0.3495	0.4046	0.4597	0.5150	0.5703	0.6257	0.6811	0.7366	0.7922	0.8477	0.9034	0.9590	1.0147	23.6
31.1-33.0	35.1- 37.3	0.0869	0.1481	0.2098	0.2719	0.3342	0.3967	0.4593	0.5220	0.5848	0.6477	0.7106	0.7736	0.8367	0.8998	0.9630	1.0262	1.0895	1.1528	24.4
33.1-35.0	37.4- 39.6	0.0973	0.1662	0.2357	0.3056	0.3758	0.4461	0.5166	0.5873	0.6580	0.7288	0.7997	0.8707	0.9418	1.0129	1.0840	1.1553	1.2265	1.2979	25.1
35.1-37.0	39.7- 41.8	0.1083	0.1851	0.2628	0.3409	0.4193	0.4979	0.5766	0.6555	0.7346	0.8137	0.8930	0.9723	1.0517	1.1312	1.2107	1.2904	1.3700	1.4497	25.7
37.1-39.0	42.0- 44.1	0.1196	0.2048	0.2910	0.3776	0.4645	0.5518	0.6392	0.7268	0.8145	0.9024	0.9903	1.0784	1.1665	1.2548	1.3431	1.4314	1.5199	1.6084	26.3
39.1-41.0	44.2- 46.4	0.1313	0.2253	0.3202	0.4157	0.5117	0.6079	0.7043	0.8009	0.8977	0.9947	1.0917	1.1889	1.2862	1.3835	1.4810	1.5785	1.6761	1.7737	26.8
41.1-43.0	46.5- 48.7	0.1434	0.2464	0.3505	0.4553	0.5605	0.6661	0.7719	0.8780	0.9842	1.0906	1.1971	1.3037	1.4105	1.5173	1.6243	1.7313	1.8385	1.9457	27.2
43.1-45.0	48.8- 50.9	0.1559	0.2683	0.3819	0.4963	0.6112	0.7265	0.8420	0.9578	1.0739	1.1900	1.3064	1.4229	1.5395	1.6562	1.7730	1.8900	2.0070	2.1241	27.6
45.1-47.0	51.0- 53.2	0.1688	0.2909	0.4144	0.5387	0.6636	0.7889	0.9146	1.0405	1.1666	1.2930	1.4195	1.5462	1.6731	1.8000	1.9271	2.0543	2.1815	2.3089	28.0
47.1-49.0	53.3- 55.4	0.1821	0.3142	0.4478	0.5824	0.7176	0.8534	0.9895	1.1259	1.2625	1.3994	1.5365	1.6737	1.8111	1.9487	2.0863	2.2241	2.3620	2.5000	28.3
49.1-51.0	55.6- 57.7	0.1958	0.3382	0.4823	0.6274	0.7734	0.9198	1.0667	1.2139	1.3614	1.5092	1.6571	1.8053	1.9536	2.1021	2.2507	2.3995	2.5484	2.6974	28.6
51.1-53.0	57.8- 60.0	0.2098	0.3628	0.5177	0.6738	0.8307	0.9882	1.1462	1.3046	1.4633	1.6223	1.7815	1.9409	2.1005	2.2602	2.4202	2.5802	2.7404	2.9008	28.9
53.1-55.0	60.1- 62.2	0.2242	0.3881	0.5541	0.7214	0.8897	1.0586	1.2280	1.3979	1.5681	1.7386	1.9094	2.0804	2.2516	2.4230	2.5946	2.7663	2.9382	3.1102	29.1
55.1-57.0	62.3- 64.5	0.2390	0.4141	0.5915	0.7704	0.9502	1.1309	1.3121	1.4937	1.6758	1.8582	2.0409	2.2238	2.4070	2.5903	2.7739	2.9576	3.1415	3.3255	29.3
57.1-59.0	64.6- 66.7	0.2542	0.4407	0.6298	0.8205	1.0123	1.2050	1.3983	1.5921	1.7863	1.9809	2.1758	2.3710	2.5664	2.7621	2.9579	3.1540	3.3502	3.5466	29.5
59.1-61.0	66.8- 69.0	0.2697	0.4680	0.6691	0.8719	1.0759	1.2809	1.4866	1.6929	1.8996	2.1067	2.3142	2.5219	2.7300	2.9382	3.1467	3.3554	3.5643	3.7734	29.7
61.1-63.0	69.1- 71.2	0.2856	0.4959	0.7092	0.9245	1.1411	1.3587	1.5770	1.7961	2.0156	2.2355	2.4559	2.6765	2.8975	3.1187	3.3401	3.5618	3.7837	4.0057	29.9
63.1-65.0	71.3- 73.5	0.3018	0.5245	0.7503	0.9782	1.2076	1.4382	1.6696	1.9016	2.1342	2.3673	2.6009	2.8347	3.0689	3.3034	3.5381	3.7731	4.0082	4.2436	30.0
65.1-67.0	73.6- 75.7	0.3184	0.5536	0.7922	1.0331	1.2757	1.5194	1.7641	2.0095	2.2555	2.5021	2.7491	2.9965	3.2442	3.4922	3.7405	3.9891	4.2379	4.4869	30.1
67.1-69.0	75.8- 77.9	0.3353	0.5834	0.8351	1.0892	1.3451	1.6023	1.8606	2.1197	2.3794	2.6397	2.9005	3.1617	3.4232	3.6851	3.9473	4.2098	4.4725	4.7355	30.2
69.1-71.0	78.1- 80.2	0.3527	0.6138	0.8787	1.1464	1.4159	1.6870	1.9591	2.2321	2.5058	2.7801	3.0550	3.3303	3.6060	3.8821	4.1585	4.4352	4.7121	4.9893	30.3
71.1-73.0	80.3- 82.4	0.3703	0.6448	0.9233	1.2047	1.4882	1.7732	2.0595	2.3467	2.6347	2.9234	3.2126	3.5023	3.7924	4.0830	4.3738	4.6650	4.9565	5.2482	30.4
73.1-75.0	82.5- 84.6	0.3883	0.6764	0.9687	1.2640	1.5617	1.8611	2.1618	2.4635	2.7660	3.0693	3.3732	3.6776	3.9824	4.2877	4.5933	4.8993	5.2056	5.5122	30.5
75.1-77.0	84.8- 86.9	0.4067	0.7086	1.0149	1.3245	1.6366	1.9506	2.2659	2.5824	2.8997	3.2179	3.5367	3.8561	4.1759	4.4962	4.8169	5.1380	5.4594	5.7811	30.6
77.1-79.0	87.0- 89.1	0.4255	0.7414	1.0619	1.3860	1.7128	2.0416	2.3719	2.7033	3.0358	3.3691	3.7031	4.0377	4.3729	4.7085	5.0445	5.3810	5.7178	6.0549	30.6
79.1-81.0	89.2- 91.3	0.4446	0.7747	1.1097	1.4486	1.7903	2.1341	2.4796	2.8264	3.1742	3.5229	3.8724	4.2225	4.5732	4.9244	5.2761	5.6281	5.9806	6.3334	30.7

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 13.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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- 16.7	0.0022	0.0046	0.0070	0.0093	0.0116	0.0140	0.0163	0.0187	0.0211	0.0235	0.0259	0.0283	0.0307	0.0331	0.0355	0.0379	0.0403	0.0427	14.0
15.1-17.0	16.8- 19.0	0.0109	0.0191	0.0275	0.0358	0.0442	0.0526	0.0610	0.0694	0.0779	0.0863	0.0948	0.1032	0.1117	0.1202	0.1287	0.1372	0.1457	0.1542	15.6
17.1-19.0	19.1- 21.3	0.0195	0.0338	0.0482	0.0627	0.0772	0.0918	0.1064	0.1210	0.1356	0.1503	0.1650	0.1797	0.1944	0.2091	0.2238	0.2386	0.2533	0.2681	17.1
19.1-21.0	21.4- 23.6	0.0281	0.0481	0.0684	0.0888	0.1093	0.1298	0.1504	0.1710	0.1916	0.2123	0.2329	0.2536	0.2743	0.2951	0.3158	0.3366	0.3573	0.3781	18.4
21.1-23.0	23.7- 25.9	0.0367	0.0627	0.0889	0.1154	0.1419	0.1684	0.1950	0.2217	0.2484	0.2751	0.3019	0.3287	0.3555	0.3823	0.4091	0.4360	0.4629	0.4898	19.7
23.1-25.0	26.0- 28.2	0.0455	0.0777	0.1101	0.1428	0.1755	0.2084	0.2413	0.2742	0.3072	0.3403	0.3734	0.4065	0.4396	0.4728	0.5060	0.5392	0.5724	0.6056	20.8
25.1-27.0	28.3- 30.5	0.0546	0.0932	0.1322	0.1714	0.2107	0.2501	0.2896	0.3292	0.3688	0.4084	0.4481	0.4879	0.5276	0.5674	0.6073	0.6471	0.6870	0.7269	21.9
27.1-29.0	30.6- 32.7	0.0641	0.1095	0.1553	0.2013	0.2475	0.2938	0.3402	0.3867	0.4333	0.4799	0.5265	0.5732	0.6200	0.6668	0.7136	0.7604	0.8073	0.8542	22.8
29.1-31.0	32.8- 35.0	0.0740	0.1264	0.1794	0.2326	0.2860	0.3396	0.3933	0.4471	0.5009	0.5548	0.6088	0.6628	0.7169	0.7710	0.8252	0.8794	0.9336	0.9879	23.6
31.1-33.0	35.1- 37.3	0.0842	0.1441	0.2046	0.2653	0.3264	0.3875	0.4488	0.5103	0.5718	0.6333	0.6950	0.7567	0.8185	0.8803	0.9422	1.0041	1.0661	1.1281	24.4
33.1-35.0	37.4- 39.6	0.0949	0.1625	0.2308	0.2995	0.3685	0.4376	0.5069	0.5763	0.6459	0.7155	0.7852	0.8549	0.9248	0.9947	1.0646	1.1347	1.2047	1.2748	25.1
35.1-37.0	39.7- 41.8	0.1059	0.1816	0.2581	0.3351	0.4123	0.4898	0.5675	0.6453	0.7232	0.8012	0.8794	0.9576	1.0358	1.1142	1.1926	1.2711	1.3496	1.4282	25.7
37.1-39.0	42.0- 44.1	0.1173	0.2015	0.2865	0.3721	0.4580	0.5442	0.6306	0.7171	0.8038	0.8906	0.9775	1.0645	1.1516	1.2388	1.3260	1.4133	1.5007	1.5881	26.3
39.1-41.0	44.2- 46.4	0.1292	0.2221	0.3160	0.4105	0.5055	0.6007	0.6961	0.7918	0.8876	0.9835	1.0796	1.1758	1.2720	1.3684	1.4648	1.5613	1.6579	1.7546	26.8
41.1-43.0	46.5- 48.7	0.1414	0.2434	0.3465	0.4504	0.5546	0.6593	0.7642	0.8693	0.9746	1.0800	1.1856	1.2913	1.3971	1.5030	1.6090	1.7151	1.8212	1.9275	27.2
43.1-45.0	48.8- 50.9	0.1540	0.2654	0.3781	0.4915	0.6055	0.7199	0.8346	0.9495	1.0647	1.1800	1.2954	1.4110	1.5267	1.6425	1.7584	1.8745	1.9906	2.1068	27.6
45.1-47.0	51.0- 53.2	0.1669	0.2881	0.4106	0.5341	0.6581	0.7826	0.9074	1.0325	1.1578	1.2834	1.4090	1.5349	1.6608	1.7869	1.9131	2.0395	2.1659	2.2924	28.0
47.1-49.0	53.3- 55.4	0.1803	0.3114	0.4442	0.5780	0.7124	0.8473	0.9826	1.1182	1.2541	1.3901	1.5264	1.6628	1.7994	1.9361	2.0730	2.2099	2.3470	2.4842	28.3
49.1-51.0	55.6- 57.7	0.1940	0.3355	0.4788	0.6232	0.7683	0.9140	1.0601	1.2066	1.3533	1.5003	1.6475	1.7948	1.9424	2.0901	2.2379	2.3859	2.5340	2.6821	28.6
51.1-53.0	57.8- 60.0	0.2081	0.3602	0.5144	0.6697	0.8259	0.9826	1.1399	1.2975	1.4555	1.6137	1.7721	1.9308	2.0896	2.2487	2.4078	2.5671	2.7266	2.8861	28.9
53.1-55.0	60.1- 62.2	0.2225	0.3856	0.5509	0.7175	0.8850	1.0532	1.2219	1.3911	1.5606	1.7303	1.9004	2.0707	2.2412	2.4118	2.5827	2.7537	2.9248	3.0961	29.1
55.1-57.0	62.3- 64.5	0.2374	0.4117	0.5883	0.7665	0.9457	1.1256	1.3061	1.4871	1.6685	1.8502	2.0322	2.2144	2.3968	2.5795	2.7623	2.9453	3.1285	3.3118	29.3
57.1-59.0	64.6- 66.7	0.2525	0.4384	0.6267	0.8167	1.0079	1.1999	1.3925	1.5856	1.7792	1.9731	2.1674	2.3619	2.5566	2.7516	2.9468	3.1421	3.3377	3.5334	29.5
59.1-61.0	66.8- 69.0	0.2681	0.4657	0.6660	0.8682	1.0716	1.2759	1.4810	1.6866	1.8927	2.0991	2.3060	2.5131	2.7204	2.9281	3.1359	3.3439	3.5521	3.7605	29.7
61.1-63.0	69.1- 71.2	0.2840	0.4936	0.7063	0.9209	1.1368	1.3538	1.5716	1.7900	2.0089	2.2282	2.4479	2.6679	2.8882	3.1088	3.3296	3.5506	3.7719	3.9933	29.9
63.1-65.0	71.3- 73.5	0.3003	0.5222	0.7474	0.9747	1.2035	1.4334	1.6642	1.8957	2.1277	2.3602	2.5931	2.8263	3.0599	3.2938	3.5279	3.7622	3.9967	4.2315	30.0
65.1-67.0	73.6- 75.7	0.3169	0.5514	0.7894	1.0297	1.2716	1.5148	1.7589	2.0037	2.2492	2.4951	2.7415	2.9883	3.2354	3.4828	3.7305	3.9785	4.2267	4.4751	30.1
67.1-69.0	75.8- 77.9	0.3339	0.5813	0.8323	1.0858	1.3412	1.5978	1.8555	2.1140	2.3732	2.6329	2.8931	3.1537	3.4147	3.6760	3.9376	4.1995	4.4616	4.7240	30.2
69.1-71.0	78.1- 80.2	0.3512	0.6117	0.8760	1.1431	1.4121	1.6825	1.9541	2.2265	2.4997	2.7735	3.0478	3.3225	3.5976	3.8731	4.1489	4.4251	4.7014	4.9780	30.3
71.1-73.0	80.3- 82.4	0.3689	0.6427	0.9206	1.2014	1.4844	1.7689	2.0546	2.3413	2.6287	2.9168	3.2055	3.4946	3.7842	4.0742	4.3645	4.6551	4.9460	5.2372	30.4
73.1-75.0	82.5- 84.6	0.3869	0.6743	0.9660	1.2608	1.5580	1.8568	2.1570	2.4581	2.7602	3.0629	3.3662	3.6701	3.9744	4.2791	4.5842	4.8896	5.1954	5.5014	30.5
75.1-77.0	84.8- 86.9	0.4053	0.7065	1.0123	1.3214	1.6329	1.9464	2.2612	2.5771	2.8940	3.2116	3.5299	3.8487	4.1680	4.4878	4.8080	5.1285	5.4494	5.7705	30.6
77.1-79.0	87.0- 89.1	0.4241	0.7393	1.0593	1.3829	1.7092	2.0374	2.3672	2.6982	3.0302	3.3629	3.6964	4.0305	4.3651	4.7002	5.0358	5.3717	5.7079	6.0445	30.6
79.1-81.0	89.2- 91.3	0.4432	0.7727	1.1072	1.4455	1.7867	2.1301	2.4750	2.8213	3.1686	3.5169	3.8658	4.2154	4.5656	4.9163	5.2674	5.6190	5.9709	6.3232	30.7

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	16.8- 19.0	0.0023	0.0049	0.0075	0.0100	0.0126	0.0151	0.0177	0.0203	0.0229	0.0255	0.0282	0.0308	0.0334	0.0361	0.0387	0.0414	0.0441	0.0467	15.6
17.1-19.0	19.1- 21.3	0.0117	0.0207	0.0297	0.0387	0.0478	0.0568	0.0659	0.0749	0.0840	0.0931	0.1023	0.1114	0.1205	0.1297	0.1388	0.1480	0.1571	0.1663	17.1
19.1-21.0	21.4- 23.6	0.0214	0.0373	0.0534	0.0695	0.0857	0.1020	0.1183	0.1346	0.1510	0.1673	0.1837	0.2001	0.2166	0.2330	0.2495	0.2659	0.2824	0.2989	18.4
21.1-23.0	23.7- 25.9	0.0309	0.0535	0.0763	0.0992	0.1223	0.1454	0.1686	0.1918	0.2150	0.2383	0.2615	0.2849	0.3082	0.3316	0.3549	0.3783	0.4017	0.4251	19.7
23.1-25.0	26.0- 28.2	0.0404	0.0696	0.0992	0.1289	0.1587	0.1886	0.2186	0.2486	0.2787	0.3088	0.3390	0.3692	0.3994	0.4296	0.4598	0.4901	0.5204	0.5507	20.8
25.1-27.0	28.3- 30.5	0.0501	0.0861	0.1225	0.1591	0.1959	0.2327	0.2697	0.3067	0.3437	0.3808	0.4180	0.4552	0.4924	0.5296	0.5669	0.6042	0.6415	0.6788	21.9
27.1-29.0	30.6- 32.7	0.0600	0.1030	0.1465	0.1903	0.2342	0.2782	0.3224	0.3666	0.4109	0.4552	0.4996	0.5440	0.5885	0.6330	0.6775	0.7221	0.7667	0.8113	22.8
29.1-31.0	32.8- 35.0	0.0702	0.1205	0.1714	0.2226	0.2739	0.3254	0.3771	0.4288	0.4806	0.5325	0.5844	0.6363	0.6884	0.7404	0.7925	0.8447	0.8968	0.9490	23.6
31.1-33.0	35.1- 37.3	0.0807	0.1386	0.1972	0.2561	0.3152	0.3745	0.4339	0.4935	0.5531	0.6128	0.6726	0.7324	0.7923	0.8523	0.9123	0.9723	1.0324	1.0925	24.4
33.1-35.0	37.4- 39.6	0.0915	0.1574	0.2239	0.2909	0.3581	0.4255	0.4931	0.5608	0.6286	0.6965	0.7645	0.8325	0.9006	0.9688	1.0370	1.1053	1.1736	1.2419	25.1
35.1-37.0	39.7- 41.8	0.1028	0.1768	0.2517	0.3270	0.4027	0.4785	0.5546	0.6308	0.7071	0.7835	0.8601	0.9366	1.0133	1.0900	1.1668	1.2437	1.3206	1.3976	25.7
37.1-39.0	42.0- 44.1	0.1144	0.1969	0.2804	0.3645	0.4489	0.5336	0.6185	0.7035	0.7887	0.8740	0.9594	1.0449	1.1305	1.2161	1.3019	1.3877	1.4735	1.5594	26.3
39.1-41.0	44.2- 46.4	0.1263	0.2177	0.3102	0.4033	0.4968	0.5907	0.6847	0.7790	0.8733	0.9679	1.0625	1.1573	1.2521	1.3471	1.4421	1.5372	1.6323	1.7276	26.8
41.1-43.0	46.5- 48.7	0.1386	0.2392	0.3410	0.4435	0.5465	0.6498	0.7533	0.8571	0.9611	1.0652	1.1694	1.2738	1.3783	1.4828	1.5875	1.6922	1.7970	1.9019	27.2
43.1-45.0	48.8- 50.9	0.1513	0.2614	0.3728	0.4850	0.5977	0.7109	0.8243	0.9380	1.0518	1.1659	1.2801	1.3944	1.5088	1.6234	1.7380	1.8528	1.9676	2.0825	27.6
45.1-47.0	51.0- 53.2	0.1644	0.2842	0.4056	0.5278	0.6507	0.7740	0.8976	1.0215	1.1456	1.2699	1.3944	1.5190	1.6438	1.7687	1.8937	2.0188	2.1440	2.2693	28.0
47.1-49.0	53.3- 55.4	0.1778	0.3078	0.4394	0.5720	0.7053	0.8390	0.9732	1.1076	1.2424	1.3773	1.5124	1.6477	1.7831	1.9187	2.0544	2.1902	2.3261	2.4621	28.3
49.1-51.0	55.6- 57.7	0.1916	0.3319	0.4741	0.6174	0.7614	0.9060	1.0511	1.1964	1.3421	1.4879	1.6340	1.7803	1.9268	2.0734	2.2201	2.3669	2.5139	2.6610	28.6
51.1-53.0	57.8- 60.0	0.2058	0.3568	0.5098	0.6641	0.8192	0.9749	1.1312	1.2877	1.4447	1.6018	1.7592	1.9168	2.0746	2.2326	2.3907	2.5489	2.7073	2.8658	28.9
53.1-55.0	60.1- 62.2	0.2203	0.3823	0.5465	0.7120	0.8785	1.0457	1.2135	1.3816	1.5501	1.7189	1.8880	2.0572	2.2267	2.3964	2.5662	2.7361	2.9063	3.0765	29.1
55.1-57.0	62.3- 64.5	0.2352	0.4084	0.5841	0.7612	0.9394	1.1184	1.2980	1.4780	1.6584	1.8391	2.0201	2.2014	2.3829	2.5646	2.7464	2.9285	3.1106	3.2930	29.3
57.1-59.0	64.6- 66.7	0.2504	0.4352	0.6226	0.8116	1.0018	1.1929	1.3846	1.5768	1.7694	1.9624	2.1557	2.3493	2.5431	2.7372	2.9314	3.1258	3.3204	3.5151	29.5
59.1-61.0	66.8- 69.0	0.2660	0.4626	0.6620	0.8632	1.0657	1.2692	1.4733	1.6780	1.8832	2.0888	2.2947	2.5009	2.7074	2.9141	3.1210	3.3281	3.5354	3.7429	29.7
61.1-63.0	69.1- 71.2	0.2820	0.4906	0.7023	0.9160	1.1311	1.3472	1.5641	1.7816	1.9997	2.2181	2.4369	2.6561	2.8755	3.0952	3.3152	3.5353	3.7556	3.9762	29.9
63.1-65.0	71.3- 73.5	0.2983	0.5193	0.7435	0.9700	1.1979	1.4270	1.6569	1.8876	2.1187	2.3504	2.5824	2.8149	3.0476	3.2806	3.5138	3.7473	3.9810	4.2149	30.0
65.1-67.0	73.6- 75.7	0.3149	0.5485	0.7856	1.0251	1.2662	1.5085	1.7518	1.9958	2.2404	2.4856	2.7311	2.9771	3.2234	3.4700	3.7169	3.9640	4.2114	4.4589	30.1
67.1-69.0	75.8- 77.9	0.3319	0.5784	0.8286	1.0813	1.3358	1.5917	1.8486	2.1063	2.3647	2.6236	2.8830	3.1428	3.4030	3.6635	3.9243	4.1854	4.4467	4.7082	30.2
69.1-71.0	78.1- 80.2	0.3493	0.6089	0.8724	1.1386	1.4068	1.6765	1.9473	2.2190	2.4914	2.7644	3.0379	3.3119	3.5862	3.8609	4.1360	4.4113	4.6869	4.9627	30.3
71.1-73.0	80.3- 82.4	0.3670	0.6400	0.9170	1.1971	1.4792	1.7630	2.0480	2.3339	2.6206	2.9079	3.1959	3.4843	3.7731	4.0623	4.3518	4.6417	4.9318	5.2222	30.4
73.1-75.0	82.5- 84.6	0.3851	0.6716	0.9625	1.2566	1.5530	1.8511	2.1505	2.4509	2.7522	3.0542	3.3568	3.6599	3.9635	4.2675	4.5718	4.8765	5.1815	5.4867	30.5
75.1-77.0	84.8- 86.9	0.4035	0.7039	1.0088	1.3172	1.6280	1.9407	2.2548	2.5700	2.8862	3.2031	3.5206	3.8388	4.1574	4.4764	4.7958	5.1156	5.4358	5.7562	30.6
77.1-79.0	87.0- 89.1	0.4223	0.7367	1.0559	1.3788	1.7043	2.0319	2.3610	2.6912	3.0225	3.3546	3.6874	4.0208	4.3547	4.6891	5.0239	5.3590	5.6946	6.0304	30.6
79.1-81.0	89.2- 91.3	0.4415	0.7702	1.1039	1.4415	1.7820	2.1246	2.4689	2.8145	3.1611	3.5087	3.8569	4.2059	4.5553	4.9053	5.2558	5.6066	5.9578	6.3094	30.7

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

6.0 MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 9, 11, 14

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

Table 17. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	5.7- 7.8	0.0015	0.0027	0.0038	0.0050	0.0062	0.0073	0.0085	0.0097	0.0109	0.0120	0.0132	0.0144	0.0156	0.0168	0.0180	0.0192	0.0204	0.0215	6.3
7.1- 9.0	7.9- 10.0	0.0053	0.0092	0.0131	0.0171	0.0211	0.0252	0.0292	0.0333	0.0374	0.0414	0.0455	0.0496	0.0537	0.0578	0.0619	0.0660	0.0700	0.0741	8.3
9.1-11.0	10.1- 12.2	0.0090	0.0156	0.0223	0.0291	0.0359	0.0428	0.0497	0.0566	0.0635	0.0704	0.0773	0.0843	0.0912	0.0982	0.1051	0.1121	0.1190	0.1260	10.2
11.1-13.0	12.3- 14.4	0.0131	0.0228	0.0327	0.0426	0.0527	0.0628	0.0729	0.0831	0.0933	0.1035	0.1137	0.1239	0.1342	0.1444	0.1547	0.1649	0.1752	0.1855	12.1
13.1-15.0	14.5- 16.6	0.0177	0.0308	0.0443	0.0579	0.0717	0.0855	0.0993	0.1132	0.1272	0.1412	0.1551	0.1692	0.1832	0.1972	0.2113	0.2253	0.2394	0.2535	13.9
15.1-17.0	16.8- 18.9	0.0227	0.0398	0.0572	0.0750	0.0928	0.1108	0.1289	0.1470	0.1652	0.1835	0.2017	0.2200	0.2383	0.2567	0.2750	0.2934	0.3118	0.3302	15.6
17.1-19.0	19.0- 21.2	0.0283	0.0496	0.0715	0.0937	0.1162	0.1389	0.1616	0.1845	0.2074	0.2304	0.2534	0.2765	0.2996	0.3227	0.3459	0.3690	0.3923	0.4155	17.1
19.1-21.0	21.3- 23.5	0.0343	0.0603	0.0870	0.1142	0.1417	0.1695	0.1974	0.2254	0.2535	0.2817	0.3100	0.3384	0.3667	0.3952	0.4236	0.4521	0.4806	0.5092	18.6
21.1-23.0	23.6- 25.8	0.0409	0.0719	0.1039	0.1364	0.1694	0.2026	0.2361	0.2698	0.3036	0.3375	0.3715	0.4056	0.4397	0.4739	0.5082	0.5424	0.5768	0.6111	19.9
23.1-25.0	25.9- 28.1	0.0480	0.0844	0.1219	0.1602	0.1990	0.2383	0.2778	0.3175	0.3574	0.3975	0.4377	0.4780	0.5184	0.5588	0.5993	0.6399	0.6805	0.7211	21.1
25.1-27.0	28.2- 30.4	0.0557	0.0979	0.1413	0.1857	0.2307	0.2763	0.3223	0.3685	0.4150	0.4617	0.5085	0.5554	0.6025	0.6497	0.6969	0.7442	0.7916	0.8390	22.3
27.1-29.0	30.5- 32.7	0.0640	0.1122	0.1619	0.2127	0.2644	0.3167	0.3695	0.4227	0.4762	0.5299	0.5838	0.6378	0.6920	0.7464	0.8008	0.8553	0.9099	0.9645	23.3
29.1-31.0	32.9- 35.1	0.0729	0.1275	0.1837	0.2414	0.3000	0.3595	0.4195	0.4800	0.5409	0.6020	0.6634	0.7250	0.7868	0.8487	0.9108	0.9729	1.0352	1.0975	24.3
31.1-33.0	35.2- 37.5	0.0824	0.1438	0.2069	0.2716	0.3376	0.4045	0.4722	0.5404	0.6090	0.6781	0.7474	0.8169	0.8867	0.9566	1.0267	1.0970	1.1674	1.2378	25.1
33.1-35.0	37.6- 39.9	0.0926	0.1610	0.2313	0.3035	0.3771	0.4518	0.5274	0.6037	0.6806	0.7578	0.8355	0.9134	0.9916	1.0700	1.1485	1.2273	1.3062	1.3852	25.9
35.1-37.0	40.0- 42.3	0.1035	0.1793	0.2571	0.3369	0.4185	0.5014	0.5853	0.6700	0.7554	0.8413	0.9276	1.0143	1.1013	1.1886	1.2760	1.3637	1.4516	1.5396	26.6
37.1-39.0	42.4- 44.7	0.1152	0.1987	0.2841	0.3719	0.4617	0.5531	0.6457	0.7392	0.8335	0.9283	1.0238	1.1196	1.2158	1.3123	1.4091	1.5061	1.6033	1.7007	27.3
39.1-41.0	44.8- 47.1	0.1277	0.2192	0.3126	0.4086	0.5069	0.6070	0.7085	0.8112	0.9147	1.0189	1.1238	1.2291	1.3349	1.4411	1.5475	1.6543	1.7612	1.8684	27.9
41.1-43.0	47.2- 49.6	0.1411	0.2408	0.3424	0.4469	0.5540	0.6631	0.7739	0.8860	0.9991	1.1130	1.2277	1.3429	1.4586	1.5748	1.6913	1.8081	1.9253	2.0426	28.4
43.1-45.0	49.7- 52.0	0.1553	0.2636	0.3736	0.4868	0.6030	0.7214	0.8417	0.9635	1.0865	1.2105	1.3353	1.4607	1.5867	1.7133	1.8402	1.9675	2.0952	2.2231	28.9
45.1-47.0	52.1- 54.5	0.1705	0.2877	0.4063	0.5284	0.6538	0.7819	0.9120	1.0438	1.1770	1.3113	1.4465	1.5826	1.7192	1.8565	1.9942	2.1324	2.2709	2.4098	29.4
47.1-49.0	54.6- 57.0	0.1866	0.3130	0.4405	0.5718	0.7066	0.8445	0.9847	1.1268	1.2705	1.4154	1.5614	1.7083	1.8560	2.0043	2.1532	2.3025	2.4523	2.6025	29.8
49.1-51.0	57.1- 59.5	0.2039	0.3397	0.4762	0.6168	0.7614	0.9092	1.0598	1.2125	1.3669	1.5228	1.6799	1.8380	1.9969	2.1566	2.3170	2.4779	2.6393	2.8011	30.2
51.1-53.0	59.6- 62.0	0.2222	0.3678	0.5135	0.6636	0.8180	0.9762	1.1373	1.3008	1.4663	1.6334	1.8018	1.9714	2.1420	2.3134	2.4855	2.6583	2.8316	3.0054	30.5
53.1-55.0	62.1- 64.5	0.2418	0.3974	0.5524	0.7122	0.8767	1.0453	1.2172	1.3917	1.5685	1.7471	1.9272	2.1086	2.2911	2.4745	2.6588	2.8437	3.0293	3.2154	30.8
55.1-57.0	64.7- 67.1	0.2625	0.4284	0.5930	0.7626	0.9374	1.1166	1.2995	1.4853	1.6736	1.8640	2.0560	2.2495	2.4442	2.6399	2.8366	3.0340	3.2322	3.4309	31.1
57.1-59.0	67.2- 69.6	0.2847	0.4611	0.6354	0.8149	1.0000	1.1901	1.3841	1.5815	1.7816	1.9839	2.1882	2.3940	2.6011	2.8095	3.0188	3.2291	3.4401	3.6518	31.3
59.1-61.0	69.8- 72.2	0.3082	0.4955	0.6795	0.8691	1.0648	1.2658	1.4712	1.6803	1.8924	2.1070	2.3236	2.5420	2.7619	2.9832	3.2055	3.4289	3.6531	3.8780	31.6
61.1-63.0	72.3- 74.8	0.3331	0.5315	0.7255	0.9252	1.1316	1.3437	1.5607	1.7817	2.0060	2.2330	2.4623	2.6936	2.9265	3.1609	3.3965	3.6332	3.8709	4.1094	31.8
63.1-65.0	74.9- 77.4	0.3597	0.5694	0.7734	0.9834	1.2005	1.4239	1.6526	1.8857	2.1224	2.3621	2.6043	2.8486	3.0948	3.3426	3.5918	3.8421	4.0935	4.3459	32.0
65.1-67.0	77.5- 80.0	0.3879	0.6092	0.8232	1.0436	1.2716	1.5064	1.7470	1.9923	2.2416	2.4941	2.7495	3.0071	3.2668	3.5282	3.7912	4.0554	4.3209	4.5873	32.1
67.1-69.0	80.2- 82.7	0.4179	0.6510	0.8751	1.1058	1.3448	1.5912	1.8437	2.1015	2.3635	2.6291	2.8978	3.1690	3.4424	3.7177	3.9947	4.2731	4.5528	4.8337	32.3
69.1-71.0	82.8- 85.3	0.4497	0.6948	0.9291	1.1703	1.4203	1.6783	1.9430	2.2133	2.4882	2.7671	3.0493	3.3342	3.6216	3.9110	4.2023	4.4951	4.7893	5.0848	32.4
71.1-73.0	85.4- 88.0	0.4835	0.7407	0.9853	1.2369	1.4980	1.7677	2.0447	2.3277	2.6157	2.9080	3.2039	3.5028	3.8043	4.1081	4.4138	4.7213	5.0303	5.3406	32.5
73.1-75.0	88.1- 90.7	0.5193	0.7890	1.0437	1.3059	1.5781	1.8596	2.1489	2.4447	2.7460	3.0519	3.3616	3.6746	3.9905	4.3088	4.6293	4.9516	5.2756	5.6011	32.7
75.1-77.0	90.8- 93.3	0.5573	0.8396	1.1045	1.3771	1.6605	1.9538	2.2556	2.5643	2.8790	3.1986	3.5224	3.8497	4.1802	4.5132	4.8486	5.1861	5.5253	5.8661	32.8
77.1-79.0	93.5- 96.1	0.5976	0.8926	1.1676	1.4507	1.7454	2.0506	2.3648	2.6866	3.0148	3.3483	3.6863	4.0281	4.3732	4.7213	5.0718	5.4245	5.7792	6.1356	32.9
79.1-81.0	96.2- 98.8	0.6404	0.9482	1.2333	1.5268	1.8326	2.1498	2.4766	2.8116	3.1533	3.5008	3.8532	4.2096	4.5697	4.9328	5.2987	5.6669	6.0372	6.4094	32.9

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	7.9- 10.0	0.0019	0.0032	0.0043	0.0055	0.0066	0.0076	0.0087	0.0097	0.0107	0.0117	0.0128	0.0138	0.0148	0.0158	0.0168	0.0178	0.0188	0.0198	8.3
9.1-11.0	10.1- 12.2	0.0067	0.0120	0.0173	0.0228	0.0283	0.0338	0.0394	0.0450	0.0506	0.0562	0.0618	0.0674	0.0731	0.0787	0.0844	0.0900	0.0957	0.1013	10.2
11.1-13.0	12.3- 14.4	0.0114	0.0201	0.0290	0.0381	0.0473	0.0565	0.0657	0.0750	0.0843	0.0937	0.1030	0.1123	0.1217	0.1311	0.1405	0.1499	0.1592	0.1687	12.1
13.1-15.0	14.5- 16.6	0.0162	0.0286	0.0414	0.0543	0.0673	0.0805	0.0937	0.1069	0.1202	0.1335	0.1468	0.1601	0.1735	0.1869	0.2003	0.2137	0.2271	0.2405	13.9
15.1-17.0	16.8- 18.9	0.0215	0.0379	0.0547	0.0719	0.0892	0.1066	0.1242	0.1418	0.1594	0.1771	0.1948	0.2126	0.2303	0.2481	0.2659	0.2838	0.3016	0.3195	15.6
17.1-19.0	19.0- 21.2	0.0271	0.0479	0.0693	0.0910	0.1130	0.1352	0.1575	0.1799	0.2023	0.2249	0.2474	0.2700	0.2927	0.3154	0.3381	0.3608	0.3836	0.4063	17.1
19.1-21.0	21.3- 23.5	0.0333	0.0588	0.0850	0.1118	0.1389	0.1662	0.1937	0.2213	0.2491	0.2769	0.3048	0.3327	0.3607	0.3887	0.4168	0.4449	0.4730	0.5012	18.6
21.1-23.0	23.6- 25.8	0.0399	0.0705	0.1020	0.1342	0.1668	0.1997	0.2328	0.2661	0.2995	0.3331	0.3668	0.4005	0.4343	0.4681	0.5020	0.5360	0.5700	0.6040	19.9
23.1-25.0	25.9- 28.1	0.0471	0.0831	0.1202	0.1581	0.1966	0.2355	0.2747	0.3141	0.3537	0.3935	0.4334	0.4733	0.5134	0.5535	0.5937	0.6340	0.6743	0.7146	21.1
25.1-27.0	28.2- 30.4	0.0549	0.0966	0.1397	0.1837	0.2285	0.2737	0.3194	0.3654	0.4116	0.4579	0.5045	0.5512	0.5979	0.6448	0.6918	0.7388	0.7859	0.8330	22.3
27.1-29.0	30.5- 32.7	0.0632	0.1110	0.1603	0.2109	0.2623	0.3143	0.3668	0.4197	0.4730	0.5264	0.5800	0.6338	0.6878	0.7418	0.7960	0.8503	0.9046	0.9590	23.3
29.1-31.0	32.9- 35.1	0.0721	0.1264	0.1823	0.2396	0.2980	0.3572	0.4170	0.4772	0.5378	0.5987	0.6599	0.7213	0.7828	0.8445	0.9063	0.9682	1.0302	1.0923	24.3
31.1-33.0	35.2- 37.5	0.0817	0.1427	0.2055	0.2699	0.3356	0.4023	0.4697	0.5377	0.6061	0.6749	0.7440	0.8133	0.8829	0.9526	1.0225	1.0925	1.1627	1.2329	25.1
33.1-35.0	37.6- 39.9	0.0919	0.1600	0.2299	0.3018	0.3752	0.4497	0.5251	0.6011	0.6778	0.7548	0.8322	0.9099	0.9879	1.0661	1.1445	1.2230	1.3017	1.3806	25.9
35.1-37.0	40.0- 42.3	0.1029	0.1783	0.2557	0.3353	0.4166	0.4993	0.5830	0.6675	0.7527	0.8384	0.9245	1.0110	1.0978	1.1849	1.2721	1.3596	1.4473	1.5351	26.6
37.1-39.0	42.4- 44.7	0.1146	0.1977	0.2828	0.3704	0.4599	0.5511	0.6434	0.7368	0.8308	0.9255	1.0208	1.1164	1.2124	1.3087	1.4053	1.5022	1.5992	1.6964	27.3
39.1-41.0	44.8- 47.1	0.1271	0.2182	0.3113	0.4071	0.5052	0.6051	0.7064	0.8088	0.9121	1.0162	1.1209	1.2260	1.3316	1.4376	1.5439	1.6505	1.7573	1.8643	27.9
41.1-43.0	47.2- 49.6	0.1404	0.2398	0.3411	0.4454	0.5523	0.6612	0.7718	0.8837	0.9966	1.1103	1.2248	1.3399	1.4554	1.5714	1.6877	1.8044	1.9214	2.0386	28.4
43.1-45.0	49.7- 52.0	0.1547	0.2627	0.3724	0.4854	0.6013	0.7195	0.8396	0.9613	1.0841	1.2079	1.3325	1.4578	1.5836	1.7100	1.8368	1.9639	2.0914	2.2192	28.9
45.1-47.0	52.1- 54.5	0.1699	0.2867	0.4051	0.5270	0.6522	0.7800	0.9099	1.0416	1.1746	1.3087	1.4438	1.5796	1.7162	1.8532	1.9908	2.1288	2.2672	2.4059	29.4
47.1-49.0	54.6- 57.0	0.1861	0.3121	0.4393	0.5703	0.7050	0.8426	0.9826	1.1246	1.2681	1.4129	1.5587	1.7055	1.8530	2.0011	2.1498	2.2990	2.4487	2.5987	29.8
49.1-51.0	57.1- 59.5	0.2033	0.3388	0.4750	0.6154	0.7597	0.9074	1.0577	1.2103	1.3645	1.5203	1.6772	1.8352	1.9940	2.1535	2.3137	2.4744	2.6357	2.7973	30.2
51.1-53.0	59.6- 62.0	0.2217	0.3669	0.5123	0.6622	0.8164	0.9743	1.1353	1.2986	1.4639	1.6309	1.7992	1.9686	2.1390	2.3103	2.4823	2.6549	2.8281	3.0017	30.5
53.1-55.0	62.1- 64.5	0.2412	0.3965	0.5513	0.7108	0.8751	1.0435	1.2152	1.3896	1.5662	1.7446	1.9246	2.1058	2.2882	2.4714	2.6555	2.8403	3.0258	3.2118	30.8
55.1-57.0	64.7- 67.1	0.2620	0.4276	0.5919	0.7612	0.9357	1.1148	1.2975	1.4832	1.6713	1.8615	2.0534	2.2467	2.4412	2.6368	2.8333	3.0306	3.2287	3.4273	31.1
57.1-59.0	67.2- 69.6	0.2841	0.4603	0.6342	0.8135	0.9984	1.1883	1.3821	1.5793	1.7793	1.9814	2.1855	2.3912	2.5982	2.8064	3.0156	3.2257	3.4366	3.6482	31.3
59.1-61.0	69.8- 72.2	0.3076	0.4946	0.6784	0.8677	1.0631	1.2640	1.4692	1.6781	1.8901	2.1045	2.3210	2.5392	2.7590	2.9801	3.2023	3.4255	3.6496	3.8744	31.6
61.1-63.0	72.3- 74.8	0.3326	0.5307	0.7244	0.9238	1.1299	1.3419	1.5587	1.7795	2.0036	2.2305	2.4597	2.6908	2.9236	3.1578	3.3933	3.6299	3.8674	4.1058	31.8
63.1-65.0	74.9- 77.4	0.3592	0.5686	0.7722	0.9820	1.1989	1.4221	1.6506	1.8835	2.1200	2.3596	2.6016	2.8458	3.0919	3.3395	3.5885	3.8388	4.0900	4.3423	32.0
65.1-67.0	77.5- 80.0	0.3874	0.6084	0.8221	1.0422	1.2699	1.5046	1.7449	1.9901	2.2392	2.4916	2.7468	3.0043	3.2639	3.5251	3.7879	4.0521	4.3174	4.5837	32.1
67.1-69.0	80.2- 82.7	0.4174	0.6501	0.8740	1.1045	1.3432	1.5893	1.8417	2.0993	2.3611	2.6266	2.8951	3.1662	3.4394	3.7146	3.9915	4.2697	4.5493	4.8300	32.3
69.1-71.0	82.8- 85.3	0.4492	0.6939	0.9280	1.1689	1.4186	1.6764	1.9409	2.2110	2.4858	2.7645	3.0466	3.3314	3.6186	3.9079	4.1990	4.4917	4.7858	5.0811	32.4
71.1-73.0	85.4- 88.0	0.4830	0.7399	0.9842	1.2355	1.4964	1.7658	2.0426	2.3254	2.6133	2.9054	3.2011	3.4999	3.8013	4.1049	4.4105	4.7179	5.0267	5.3369	32.5
73.1-75.0	88.1- 90.7	0.5188	0.7881	1.0426	1.3044	1.5764	1.8577	2.1468	2.4424	2.7435	3.0492	3.3588	3.6717	3.9874	4.3056	4.6259	4.9482	5.2720	5.5974	32.7
75.1-77.0	90.8- 93.3	0.5568	0.8387	1.1033	1.3757	1.6588	1.9519	2.2535	2.5620	2.8765	3.1960	3.5196	3.8468	4.1771	4.5100	4.8452	5.1825	5.5216	5.8623	32.8
77.1-79.0	93.5- 96.1	0.5972	0.8918	1.1665	1.4493	1.7436	2.0486	2.3627	2.6843	3.0123	3.3456	3.6834	4.0251	4.3701	4.7180	5.0683	5.4209	5.7755	6.1317	32.9
79.1-81.0	96.2- 98.8	0.6399	0.9474	1.2321	1.5254	1.8309	2.1478	2.4744	2.8092	3.1508	3.4981	3.8503	4.2066	4.5665	4.9295	5.2952	5.6633	6.0335	6.4055	32.9

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	0.0059	0.0101	0.0142	0.0183	0.0225	0.0266	0.0307	0.0348	0.0389	0.0431	0.0472	0.0513	0.0555	0.0596	0.0637	0.0679	0.0720	0.0762	12.1
13.1-15.0	14.5- 16.6	0.0119	0.0211	0.0308	0.0406	0.0506	0.0607	0.0709	0.0811	0.0914	0.1017	0.1121	0.1224	0.1328	0.1433	0.1537	0.1641	0.1746	0.1851	13.9
15.1-17.0	16.8- 18.9	0.0178	0.0318	0.0463	0.0612	0.0762	0.0914	0.1068	0.1222	0.1376	0.1532	0.1687	0.1843	0.1999	0.2156	0.2312	0.2469	0.2626	0.2783	15.6
17.1-19.0	19.0- 21.2	0.0240	0.0427	0.0622	0.0821	0.1023	0.1226	0.1432	0.1638	0.1845	0.2053	0.2261	0.2470	0.2680	0.2889	0.3099	0.3309	0.3519	0.3730	17.1
19.1-21.0	21.3- 23.5	0.0305	0.0542	0.0788	0.1040	0.1295	0.1554	0.1814	0.2075	0.2338	0.2602	0.2866	0.3131	0.3396	0.3662	0.3928	0.4195	0.4462	0.4729	18.6
21.1-23.0	23.6- 25.8	0.0374	0.0664	0.0964	0.1272	0.1584	0.1900	0.2219	0.2539	0.2861	0.3184	0.3508	0.3833	0.4158	0.4484	0.4811	0.5138	0.5465	0.5793	19.9
23.1-25.0	25.9- 28.1	0.0448	0.0793	0.1151	0.1518	0.1891	0.2268	0.2648	0.3031	0.3416	0.3803	0.4190	0.4579	0.4969	0.5359	0.5750	0.6142	0.6534	0.6926	21.1
25.1-27.0	28.2- 30.4	0.0527	0.0931	0.1349	0.1778	0.2215	0.2657	0.3104	0.3553	0.4005	0.4459	0.4914	0.5371	0.5829	0.6288	0.6748	0.7208	0.7669	0.8131	22.3
27.1-29.0	30.5- 32.7	0.0611	0.1077	0.1559	0.2054	0.2558	0.3068	0.3584	0.4104	0.4627	0.5152	0.5680	0.6209	0.6739	0.7271	0.7804	0.8338	0.8872	0.9407	23.3
29.1-31.0	32.9- 35.1	0.0702	0.1232	0.1781	0.2344	0.2919	0.3502	0.4091	0.4685	0.5283	0.5883	0.6487	0.7092	0.7699	0.8308	0.8918	0.9529	1.0141	1.0754	24.3
31.1-33.0	35.2- 37.5	0.0798	0.1397	0.2015	0.2650	0.3298	0.3957	0.4623	0.5295	0.5971	0.6651	0.7334	0.8020	0.8708	0.9398	1.0089	1.0782	1.1476	1.2171	25.1
33.1-35.0	37.6- 39.9	0.0901	0.1571	0.2261	0.2971	0.3696	0.4434	0.5180	0.5933	0.6692	0.7455	0.8222	0.8993	0.9765	1.0540	1.1317	1.2096	1.2876	1.3657	25.9
35.1-37.0	40.0- 42.3	0.1012	0.1756	0.2520	0.3308	0.4113	0.4932	0.5762	0.6600	0.7445	0.8295	0.9150	1.0008	1.0870	1.1734	1.2600	1.3469	1.4339	1.5210	26.6
37.1-39.0	42.4- 44.7	0.1129	0.1951	0.2793	0.3660	0.4548	0.5452	0.6369	0.7296	0.8230	0.9171	1.0116	1.1067	1.2021	1.2978	1.3937	1.4900	1.5864	1.6830	27.3
39.1-41.0	44.8- 47.1	0.1255	0.2156	0.3078	0.4028	0.5002	0.5994	0.7001	0.8019	0.9046	1.0080	1.1121	1.2167	1.3217	1.4271	1.5328	1.6388	1.7450	1.8515	27.9
41.1-43.0	47.2- 49.6	0.1389	0.2374	0.3378	0.4413	0.5475	0.6557	0.7657	0.8769	0.9893	1.1024	1.2163	1.3308	1.4458	1.5613	1.6771	1.7932	1.9096	2.0263	28.4
43.1-45.0	49.7- 52.0	0.1532	0.2603	0.3691	0.4814	0.5966	0.7142	0.8337	0.9547	1.0770	1.2002	1.3243	1.4490	1.5743	1.7002	1.8264	1.9531	2.0800	2.2073	28.9
45.1-47.0	52.1- 54.5	0.1685	0.2844	0.4019	0.5231	0.6476	0.7748	0.9041	1.0352	1.1677	1.3013	1.4358	1.5711	1.7071	1.8437	1.9808	2.1183	2.2562	2.3944	29.4
47.1-49.0	54.6- 57.0	0.1847	0.3098	0.4362	0.5665	0.7005	0.8375	0.9770	1.1184	1.2613	1.4056	1.5509	1.6972	1.8442	1.9918	2.1401	2.2888	2.4380	2.5875	29.8
49.1-51.0	57.1- 59.5	0.2020	0.3366	0.4720	0.6116	0.7553	0.9024	1.0522	1.2042	1.3579	1.5131	1.6696	1.8270	1.9854	2.1444	2.3042	2.4644	2.6252	2.7864	30.2
51.1-53.0	59.6- 62.0	0.2204	0.3647	0.5093	0.6585	0.8121	0.9694	1.1298	1.2926	1.4574	1.6239	1.7917	1.9607	2.1306	2.3014	2.4730	2.6451	2.8179	2.9911	30.5
53.1-55.0	62.1- 64.5	0.2399	0.3943	0.5483	0.7071	0.8708	1.0386	1.2098	1.3837	1.5598	1.7377	1.9172	2.0980	2.2799	2.4627	2.6464	2.8308	3.0158	3.2013	30.8
55.1-57.0	64.7- 67.1	0.2608	0.4255	0.5890	0.7576	0.9315	1.1100	1.2921	1.4773	1.6650	1.8547	2.0461	2.2390	2.4331	2.6283	2.8243	3.0212	3.2188	3.4170	31.1
57.1-59.0	67.2- 69.6	0.2829	0.4582	0.6314	0.8099	0.9943	1.1835	1.3769	1.5736	1.7730	1.9747	2.1784	2.3836	2.5902	2.7980	3.0068	3.2164	3.4269	3.6381	31.3
59.1-61.0	69.8- 72.2	0.3064	0.4926	0.6756	0.8642	1.0590	1.2593	1.4640	1.6724	1.8839	2.0978	2.3139	2.5317	2.7511	2.9717	3.1935	3.4163	3.6400	3.8644	31.6
61.1-63.0	72.3- 74.8	0.3315	0.5287	0.7216	0.9204	1.1259	1.3373	1.5535	1.7739	1.9975	2.2239	2.4527	2.6834	2.9157	3.1495	3.3846	3.6208	3.8579	4.0960	31.8
63.1-65.0	74.9- 77.4	0.3580	0.5666	0.7695	0.9785	1.1948	1.4175	1.6455	1.8779	2.1139	2.3530	2.5947	2.8384	3.0841	3.3313	3.5799	3.8298	4.0807	4.3325	32.0
65.1-67.0	77.5- 80.0	0.3863	0.6064	0.8194	1.0388	1.2659	1.5000	1.7398	1.9845	2.2331	2.4851	2.7398	2.9970	3.2561	3.5170	3.7794	4.0431	4.3081	4.5740	32.1
67.1-69.0	80.2- 82.7	0.4163	0.6482	0.8713	1.1011	1.3392	1.5848	1.8366	2.0937	2.3551	2.6201	2.8882	3.1588	3.4317	3.7065	3.9830	4.2609	4.5401	4.8204	32.3
69.1-71.0	82.8- 85.3	0.4481	0.6920	0.9253	1.1655	1.4147	1.6719	1.9359	2.2055	2.4798	2.7581	3.0397	3.3241	3.6109	3.8998	4.1905	4.4829	4.7766	5.0716	32.4
71.1-73.0	85.4- 88.0	0.4819	0.7380	0.9815	1.2322	1.4924	1.7613	2.0375	2.3199	2.6073	2.8990	3.1943	3.4926	3.7936	4.0968	4.4021	4.7090	5.0175	5.3274	32.5
73.1-75.0	88.1- 90.7	0.5178	0.7863	1.0399	1.3011	1.5725	1.8532	2.1417	2.4369	2.7375	3.0428	3.3520	3.6644	3.9798	4.2976	4.6175	4.9394	5.2629	5.5879	32.7
75.1-77.0	90.8- 93.3	0.5558	0.8369	1.1007	1.3724	1.6549	1.9474	2.2484	2.5565	2.8705	3.1895	3.5127	3.8395	4.1694	4.5019	4.8368	5.1738	5.5125	5.8528	32.8
77.1-79.0	93.5- 96.1	0.5961	0.8899	1.1639	1.4460	1.7397	2.0441	2.3576	2.6787	3.0063	3.3391	3.6765	4.0178	4.3624	4.7099	5.0599	5.4121	5.7663	6.1222	32.9
79.1-81.0	96.2- 98.8	0.6389	0.9455	1.2296	1.5221	1.8270	2.1433	2.4694	2.8036	3.1448	3.4916	3.8434	4.1993	4.5588	4.9214	5.2868	5.6545	6.0243	6.3960	32.9

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	0.0032	0.0049	0.0061	0.0071	0.0080	0.0089	0.0097	0.0105	0.0113	0.0122	0.0130	0.0139	0.0147	0.0156	0.0165	0.0173	0.0182	0.0191	12.1
13.1-15.0	14.5- 16.6	0.0097	0.0170	0.0244	0.0320	0.0396	0.0474	0.0552	0.0631	0.0710	0.0790	0.0869	0.0949	0.1030	0.1110	0.1191	0.1271	0.1352	0.1433	13.9
15.1-17.0	16.8- 18.9	0.0160	0.0285	0.0416	0.0549	0.0685	0.0822	0.0961	0.1101	0.1241	0.1381	0.1523	0.1664	0.1806	0.1948	0.2091	0.2233	0.2376	0.2519	15.6
17.1-19.0	19.0- 21.2	0.0224	0.0400	0.0583	0.0771	0.0962	0.1154	0.1349	0.1544	0.1741	0.1938	0.2136	0.2334	0.2533	0.2732	0.2931	0.3131	0.3331	0.3531	17.1
19.1-21.0	21.3- 23.5	0.0291	0.0519	0.0755	0.0998	0.1244	0.1494	0.1745	0.1998	0.2252	0.2507	0.2763	0.3019	0.3276	0.3534	0.3791	0.4050	0.4308	0.4567	18.6
21.1-23.0	23.6- 25.8	0.0362	0.0643	0.0935	0.1235	0.1540	0.1848	0.2159	0.2472	0.2787	0.3103	0.3420	0.3737	0.4055	0.4374	0.4694	0.5014	0.5334	0.5655	19.9
23.1-25.0	25.9- 28.1	0.0437	0.0775	0.1125	0.1485	0.1851	0.2222	0.2596	0.2972	0.3351	0.3731	0.4112	0.4495	0.4878	0.5263	0.5647	0.6033	0.6419	0.6805	21.1
25.1-27.0	28.2- 30.4	0.0516	0.0914	0.1325	0.1748	0.2179	0.2615	0.3056	0.3500	0.3946	0.4394	0.4844	0.5296	0.5748	0.6201	0.6656	0.7111	0.7566	0.8023	22.3
27.1-29.0	30.5- 32.7	0.0602	0.1061	0.1537	0.2026	0.2524	0.3030	0.3541	0.4055	0.4573	0.5093	0.5616	0.6140	0.6666	0.7192	0.7720	0.8249	0.8779	0.9309	23.3
29.1-31.0	32.9- 35.1	0.0693	0.1217	0.1760	0.2318	0.2888	0.3466	0.4050	0.4639	0.5233	0.5829	0.6428	0.7029	0.7631	0.8235	0.8841	0.9448	1.0055	1.0664	24.3
31.1-33.0	35.2- 37.5	0.0790	0.1383	0.1995	0.2625	0.3269	0.3923	0.4585	0.5252	0.5924	0.6600	0.7279	0.7961	0.8645	0.9331	1.0018	1.0707	1.1396	1.2087	25.1
33.1-35.0	37.6- 39.9	0.0893	0.1558	0.2243	0.2948	0.3669	0.4402	0.5144	0.5893	0.6648	0.7407	0.8171	0.8937	0.9706	1.0477	1.1250	1.2025	1.2801	1.3579	25.9
35.1-37.0	40.0- 42.3	0.1004	0.1743	0.2503	0.3286	0.4087	0.4902	0.5728	0.6562	0.7403	0.8250	0.9101	0.9956	1.0814	1.1674	1.2537	1.3402	1.4269	1.5137	26.6
37.1-39.0	42.4- 44.7	0.1122	0.1938	0.2776	0.3639	0.4523	0.5423	0.6336	0.7259	0.8190	0.9127	1.0070	1.1017	1.1967	1.2921	1.3878	1.4836	1.5797	1.6760	27.3
39.1-41.0	44.8- 47.1	0.1248	0.2145	0.3062	0.4008	0.4978	0.5966	0.6969	0.7984	0.9008	1.0039	1.1077	1.2119	1.3166	1.4217	1.5271	1.6328	1.7387	1.8448	27.9
41.1-43.0	47.2- 49.6	0.1382	0.2362	0.3362	0.4393	0.5451	0.6530	0.7627	0.8736	0.9856	1.0985	1.2121	1.3262	1.4409	1.5561	1.6716	1.7874	1.9035	2.0199	28.4
43.1-45.0	49.7- 52.0	0.1526	0.2592	0.3676	0.4794	0.5943	0.7116	0.8308	0.9515	1.0734	1.1964	1.3201	1.4446	1.5696	1.6952	1.8212	1.9475	2.0742	2.2012	28.9
45.1-47.0	52.1- 54.5	0.1678	0.2833	0.4004	0.5212	0.6454	0.7722	0.9013	1.0321	1.1642	1.2976	1.4318	1.5669	1.7026	1.8389	1.9757	2.1130	2.2506	2.3886	29.4
47.1-49.0	54.6- 57.0	0.1841	0.3088	0.4347	0.5647	0.6983	0.8350	0.9742	1.1153	1.2580	1.4020	1.5471	1.6930	1.8398	1.9872	2.1352	2.2836	2.4325	2.5818	29.8
49.1-51.0	57.1- 59.5	0.2014	0.3355	0.4706	0.6098	0.7532	0.9000	1.0495	1.2012	1.3547	1.5096	1.6658	1.8230	1.9811	2.1399	2.2994	2.4594	2.6200	2.7809	30.2
51.1-53.0	59.6- 62.0	0.2198	0.3637	0.5080	0.6568	0.8100	0.9671	1.1271	1.2897	1.4542	1.6204	1.7880	1.9567	2.1265	2.2970	2.4683	2.6402	2.8127	2.9857	30.5
53.1-55.0	62.1- 64.5	0.2394	0.3934	0.5470	0.7054	0.8688	1.0363	1.2072	1.3808	1.5567	1.7344	1.9136	2.0942	2.2758	2.4584	2.6418	2.8260	3.0108	3.1961	30.8
55.1-57.0	64.7- 67.1	0.2602	0.4245	0.5877	0.7560	0.9296	1.1077	1.2896	1.4745	1.6619	1.8514	2.0426	2.2352	2.4291	2.6240	2.8199	3.0166	3.2139	3.4119	31.1
57.1-59.0	67.2- 69.6	0.2824	0.4573	0.6301	0.8083	0.9923	1.1813	1.3744	1.5708	1.7700	1.9715	2.1749	2.3799	2.5863	2.7938	3.0024	3.2119	3.4221	3.6331	31.3
59.1-61.0	69.8- 72.2	0.3059	0.4917	0.6743	0.8626	1.0571	1.2571	1.4616	1.6697	1.8809	2.0946	2.3105	2.5281	2.7472	2.9677	3.1893	3.4118	3.6353	3.8596	31.6
61.1-63.0	72.3- 74.8	0.3310	0.5278	0.7203	0.9188	1.1240	1.3351	1.5511	1.7712	1.9946	2.2208	2.4493	2.6798	2.9119	3.1455	3.3804	3.6164	3.8533	4.0911	31.8
63.1-65.0	74.9- 77.4	0.3576	0.5657	0.7683	0.9770	1.1930	1.4153	1.6431	1.8752	2.1111	2.3499	2.5913	2.8349	3.0803	3.3274	3.5758	3.8254	4.0761	4.3278	32.0
65.1-67.0	77.5- 80.0	0.3858	0.6055	0.8182	1.0372	1.2641	1.4979	1.7375	1.9819	2.2303	2.4820	2.7366	2.9935	3.2524	3.5131	3.7753	4.0389	4.3036	4.5693	32.1
67.1-69.0	80.2- 82.7	0.4158	0.6473	0.8701	1.0995	1.3374	1.5827	1.8343	2.0911	2.3523	2.6171	2.8849	3.1554	3.4281	3.7026	3.9789	4.2566	4.5356	4.8158	32.3
69.1-71.0	82.8- 85.3	0.4476	0.6912	0.9241	1.1640	1.4129	1.6698	1.9335	2.2029	2.4770	2.7551	3.0364	3.3206	3.6073	3.8960	4.1865	4.4787	4.7722	5.0670	32.4
71.1-73.0	85.4- 88.0	0.4814	0.7372	0.9803	1.2307	1.4906	1.7593	2.0352	2.3173	2.6045	2.8960	3.1911	3.4892	3.7900	4.0931	4.3981	4.7049	5.0132	5.3229	32.5
73.1-75.0	88.1- 90.7	0.5173	0.7855	1.0388	1.2996	1.5707	1.8511	2.1394	2.4343	2.7348	3.0398	3.3488	3.6611	3.9762	4.2938	4.6136	4.9352	5.2586	5.5834	32.7
75.1-77.0	90.8- 93.3	0.5553	0.8361	1.0996	1.3709	1.6531	1.9454	2.2461	2.5540	2.8678	3.1865	3.5095	3.8361	4.1658	4.4982	4.8329	5.1696	5.5082	5.8484	32.8
77.1-79.0	93.5- 96.1	0.5957	0.8891	1.1627	1.4445	1.7380	2.0421	2.3553	2.6762	3.0035	3.3362	3.6734	4.0144	4.3589	4.7062	5.0560	5.4080	5.7620	6.1178	32.9
79.1-81.0	96.2- 98.8	0.6385	0.9448	1.2284	1.5206	1.8252	2.1413	2.4671	2.8011	3.1420	3.4887	3.8402	4.1959	4.5553	4.9177	5.2829	5.6504	6.0201	6.3916	32.9

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	0.0043	0.0064	0.0077	0.0087	0.0096	0.0104	0.0112	0.0120	0.0129	0.0137	0.0146	0.0155	0.0164	0.0173	0.0183	0.0192	0.0202	0.0211	13.9
15.1-17.0	16.8- 18.9	0.0114	0.0196	0.0278	0.0359	0.0441	0.0524	0.0606	0.0690	0.0773	0.0857	0.0941	0.1025	0.1110	0.1195	0.1279	0.1364	0.1449	0.1534	15.6
17.1-19.0	19.0- 21.2	0.0185	0.0327	0.0474	0.0625	0.0780	0.0936	0.1094	0.1254	0.1415	0.1576	0.1738	0.1901	0.2064	0.2228	0.2392	0.2556	0.2721	0.2885	17.1
19.1-21.0	21.3- 23.5	0.0257	0.0457	0.0665	0.0879	0.1098	0.1320	0.1544	0.1770	0.1997	0.2225	0.2454	0.2684	0.2915	0.3146	0.3377	0.3609	0.3841	0.4074	18.6
21.1-23.0	23.6- 25.8	0.0331	0.0589	0.0857	0.1134	0.1416	0.1702	0.1990	0.2282	0.2574	0.2869	0.3164	0.3460	0.3757	0.4055	0.4353	0.4651	0.4950	0.5250	19.9
23.1-25.0	25.9- 28.1	0.0409	0.0726	0.1056	0.1395	0.1742	0.2094	0.2449	0.2807	0.3167	0.3529	0.3892	0.4256	0.4622	0.4988	0.5355	0.5722	0.6090	0.6458	21.1
25.1-27.0	28.2- 30.4	0.0491	0.0869	0.1263	0.1668	0.2081	0.2501	0.2925	0.3352	0.3783	0.4215	0.4649	0.5084	0.5521	0.5959	0.6397	0.6837	0.7277	0.7717	22.3
27.1-29.0	30.5- 32.7	0.0578	0.1020	0.1479	0.1952	0.2435	0.2926	0.3422	0.3922	0.4425	0.4931	0.5440	0.5950	0.6461	0.6974	0.7488	0.8003	0.8518	0.9035	23.3
29.1-31.0	32.9- 35.1	0.0671	0.1179	0.1707	0.2250	0.2805	0.3370	0.3941	0.4517	0.5097	0.5680	0.6266	0.6854	0.7444	0.8036	0.8629	0.9223	0.9818	1.0414	24.3
31.1-33.0	35.2- 37.5	0.0769	0.1347	0.1945	0.2562	0.3192	0.3833	0.4483	0.5138	0.5798	0.6463	0.7130	0.7800	0.8472	0.9146	0.9822	1.0500	1.1178	1.1858	25.1
33.1-35.0	37.6- 39.9	0.0874	0.1524	0.2195	0.2888	0.3596	0.4318	0.5048	0.5786	0.6530	0.7279	0.8031	0.8787	0.9545	1.0306	1.1068	1.1832	1.2598	1.3365	25.9
35.1-37.0	40.0- 42.3	0.0985	0.1711	0.2458	0.3228	0.4018	0.4822	0.5638	0.6462	0.7292	0.8129	0.8970	0.9814	1.0662	1.1513	1.2366	1.3221	1.4078	1.4937	26.6
37.1-39.0	42.4- 44.7	0.1104	0.1908	0.2733	0.3584	0.4458	0.5348	0.6251	0.7164	0.8085	0.9012	0.9946	1.0883	1.1824	1.2769	1.3716	1.4666	1.5618	1.6572	27.3
39.1-41.0	44.8- 47.1	0.1231	0.2115	0.3021	0.3956	0.4915	0.5894	0.6887	0.7893	0.8907	0.9930	1.0958	1.1992	1.3030	1.4072	1.5118	1.6166	1.7217	1.8270	27.9
41.1-43.0	47.2- 49.6	0.1366	0.2334	0.3322	0.4343	0.5391	0.6461	0.7548	0.8648	0.9760	1.0880	1.2007	1.3141	1.4280	1.5423	1.6570	1.7720	1.8873	2.0029	28.4
43.1-45.0	49.7- 52.0	0.1510	0.2564	0.3638	0.4746	0.5885	0.7049	0.8232	0.9430	1.0642	1.1863	1.3093	1.4329	1.5572	1.6820	1.8072	1.9328	2.0587	2.1850	28.9
45.1-47.0	52.1- 54.5	0.1663	0.2807	0.3967	0.5165	0.6397	0.7657	0.8939	1.0239	1.1553	1.2878	1.4213	1.5556	1.6906	1.8262	1.9623	2.0988	2.2357	2.3729	29.4
47.1-49.0	54.6- 57.0	0.1826	0.3062	0.4311	0.5601	0.6929	0.8287	0.9671	1.1074	1.2493	1.3926	1.5369	1.6822	1.8282	1.9749	2.1222	2.2700	2.4182	2.5668	29.8
49.1-51.0	57.1- 59.5	0.2000	0.3331	0.4671	0.6054	0.7479	0.8938	1.0426	1.1935	1.3462	1.5005	1.6560	1.8125	1.9699	2.1280	2.2868	2.4462	2.6061	2.7664	30.2
51.1-53.0	59.6- 62.0	0.2184	0.3613	0.5046	0.6524	0.8048	0.9611	1.1204	1.2822	1.4460	1.6115	1.7784	1.9465	2.1156	2.2855	2.4561	2.6274	2.7993	2.9716	30.5
53.1-55.0	62.1- 64.5	0.2380	0.3910	0.5437	0.7012	0.8637	1.0305	1.2006	1.3735	1.5487	1.7257	1.9043	2.0842	2.2652	2.4472	2.6300	2.8135	2.9977	3.1824	30.8
55.1-57.0	64.7- 67.1	0.2589	0.4222	0.5844	0.7518	0.9246	1.1020	1.2831	1.4674	1.6541	1.8429	2.0335	2.2255	2.4187	2.6131	2.8083	3.0044	3.2012	3.3986	31.1
57.1-59.0	67.2- 69.6	0.2811	0.4550	0.6269	0.8043	0.9874	1.1757	1.3680	1.5638	1.7623	1.9632	2.1660	2.3703	2.5761	2.7831	2.9911	3.2000	3.4097	3.6201	31.3
59.1-61.0	69.8- 72.2	0.3047	0.4895	0.6712	0.8586	1.0523	1.2516	1.4553	1.6628	1.8734	2.0865	2.3017	2.5187	2.7373	2.9572	3.1782	3.4002	3.6231	3.8468	31.6
61.1-63.0	72.3- 74.8	0.3298	0.5256	0.7173	0.9149	1.1193	1.3297	1.5450	1.7644	1.9872	2.2128	2.4407	2.6706	2.9022	3.1352	3.3695	3.6050	3.8414	4.0787	31.8
63.1-65.0	74.9- 77.4	0.3564	0.5636	0.7653	0.9731	1.1883	1.4100	1.6371	1.8686	2.1038	2.3420	2.5829	2.8259	3.0707	3.3172	3.5651	3.8142	4.0644	4.3155	32.0
65.1-67.0	77.5- 80.0	0.3847	0.6035	0.8152	1.0334	1.2595	1.4926	1.7315	1.9753	2.2231	2.4742	2.7282	2.9845	3.2429	3.5031	3.7648	4.0278	4.2920	4.5573	32.1
67.1-69.0	80.2- 82.7	0.4147	0.6453	0.8672	1.0958	1.3329	1.5775	1.8284	2.0846	2.3452	2.6094	2.8767	3.1466	3.4187	3.6928	3.9685	4.2458	4.5243	4.8039	32.3
69.1-71.0	82.8- 85.3	0.4465	0.6892	0.9213	1.1603	1.4084	1.6646	1.9277	2.1965	2.4700	2.7475	3.0283	3.3120	3.5981	3.8863	4.1763	4.4679	4.7610	5.0553	32.4
71.1-73.0	85.4- 88.0	0.4804	0.7353	0.9775	1.2271	1.4862	1.7542	2.0295	2.3110	2.5976	2.8885	3.1830	3.4806	3.7809	4.0834	4.3880	4.6943	5.0021	5.3113	32.5
73.1-75.0	88.1- 90.7	0.5163	0.7835	1.0360	1.2960	1.5664	1.8461	2.1337	2.4280	2.7279	3.0324	3.3408	3.6525	3.9672	4.2843	4.6036	4.9247	5.2476	5.5719	32.7
75.1-77.0	90.8- 93.3	0.5543	0.8342	1.0968	1.3673	1.6488	1.9404	2.2405	2.5477	2.8609	3.1792	3.5016	3.8277	4.1569	4.4888	4.8230	5.1592	5.4973	5.8370	32.8
77.1-79.0	93.5- 96.1	0.5947	0.8873	1.1600	1.4410	1.7337	2.0371	2.3497	2.6700	2.9967	3.3288	3.6655	4.0061	4.3500	4.6968	5.0462	5.3977	5.7513	6.1066	32.9
79.1-81.0	96.2- 98.8	0.6375	0.9429	1.2257	1.5171	1.8210	2.1364	2.4616	2.7950	3.1353	3.4814	3.8324	4.1876	4.5464	4.9084	5.2731	5.6402	6.0094	6.3804	32.9

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

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	16.8- 18.9	0.0058	0.0083	0.0099	0.0109	0.0117	0.0125	0.0133	0.0141	0.0150	0.0159	0.0168	0.0177	0.0187	0.0197	0.0207	0.0217	0.0228	0.0238	15.6
17.1-19.0	19.0- 21.2	0.0135	0.0226	0.0314	0.0399	0.0484	0.0568	0.0651	0.0734	0.0817	0.0899	0.0982	0.1064	0.1146	0.1229	0.1311	0.1393	0.1475	0.1557	17.1
19.1-21.0	21.3- 23.5	0.0213	0.0371	0.0533	0.0699	0.0868	0.1040	0.1214	0.1390	0.1567	0.1745	0.1924	0.2104	0.2285	0.2466	0.2648	0.2831	0.3013	0.3196	18.6
21.1-23.0	23.6- 25.8	0.0292	0.0515	0.0746	0.0984	0.1228	0.1476	0.1727	0.1981	0.2237	0.2494	0.2753	0.3012	0.3273	0.3534	0.3796	0.4058	0.4321	0.4584	19.9
23.1-25.0	25.9- 28.1	0.0373	0.0660	0.0958	0.1266	0.1582	0.1903	0.2227	0.2555	0.2885	0.3218	0.3551	0.3886	0.4222	0.4559	0.4897	0.5235	0.5574	0.5913	21.1
25.1-27.0	28.2- 30.4	0.0459	0.0810	0.1176	0.1554	0.1940	0.2334	0.2732	0.3134	0.3539	0.3946	0.4355	0.4766	0.5178	0.5591	0.6005	0.6420	0.6835	0.7252	22.3
27.1-29.0	30.5- 32.7	0.0548	0.0966	0.1400	0.1849	0.2309	0.2776	0.3250	0.3727	0.4209	0.4693	0.5180	0.5668	0.6158	0.6649	0.7142	0.7636	0.8130	0.8625	23.3
29.1-31.0	32.9- 35.1	0.0643	0.1129	0.1634	0.2156	0.2690	0.3234	0.3784	0.4341	0.4901	0.5465	0.6032	0.6601	0.7172	0.7744	0.8318	0.8893	0.9470	1.0047	24.3
31.1-33.0	35.2- 37.5	0.0743	0.1300	0.1878	0.2474	0.3086	0.3708	0.4339	0.4976	0.5619	0.6265	0.6915	0.7568	0.8223	0.8880	0.9539	1.0199	1.0860	1.1523	25.1
33.1-35.0	37.6- 39.9	0.0849	0.1480	0.2132	0.2806	0.3497	0.4201	0.4915	0.5636	0.6364	0.7096	0.7833	0.8572	0.9315	1.0060	1.0807	1.1555	1.2305	1.3057	25.9
35.1-37.0	40.0- 42.3	0.0962	0.1669	0.2398	0.3151	0.3925	0.4713	0.5512	0.6321	0.7137	0.7958	0.8784	0.9614	1.0448	1.1284	1.2123	1.2964	1.3806	1.4650	26.6
37.1-39.0	42.4- 44.7	0.1082	0.1868	0.2676	0.3511	0.4369	0.5244	0.6132	0.7031	0.7938	0.8852	0.9771	1.0695	1.1623	1.2554	1.3488	1.4425	1.5363	1.6304	27.3
39.1-41.0	44.8- 47.1	0.1210	0.2077	0.2967	0.3886	0.4831	0.5795	0.6775	0.7767	0.8768	0.9777	1.0793	1.1814	1.2840	1.3869	1.4902	1.5938	1.6976	1.8017	27.9
41.1-43.0	47.2- 49.6	0.1346	0.2298	0.3271	0.4276	0.5310	0.6366	0.7440	0.8528	0.9627	1.0735	1.1850	1.2972	1.4099	1.5230	1.6365	1.7504	1.8646	1.9790	28.4
43.1-45.0	49.7- 52.0	0.1491	0.2530	0.3588	0.4682	0.5807	0.6958	0.8129	0.9315	1.0515	1.1724	1.2942	1.4168	1.5399	1.6636	1.7877	1.9122	2.0370	2.1622	28.9
45.1-47.0	52.1- 54.5	0.1644	0.2773	0.3919	0.5103	0.6323	0.7570	0.8840	1.0128	1.1431	1.2745	1.4069	1.5401	1.6741	1.8086	1.9436	2.0791	2.2149	2.3512	29.4
47.1-49.0	54.6- 57.0	0.1808	0.3030	0.4265	0.5541	0.6857	0.8203	0.9575	1.0967	1.2376	1.3797	1.5230	1.6673	1.8123	1.9580	2.1042	2.2510	2.3983	2.5459	29.8
49.1-51.0	57.1- 59.5	0.1982	0.3299	0.4626	0.5996	0.7409	0.8857	1.0333	1.1832	1.3349	1.4881	1.6426	1.7981	1.9545	2.1117	2.2695	2.4280	2.5869	2.7463	30.2
51.1-53.0	59.6- 62.0	0.2167	0.3583	0.5002	0.6468	0.7980	0.9532	1.1114	1.2722	1.4350	1.5995	1.7654	1.9326	2.1007	2.2697	2.4394	2.6098	2.7807	2.9522	30.5
53.1-55.0	62.1- 64.5	0.2364	0.3881	0.5394	0.6957	0.8571	1.0227	1.1918	1.3637	1.5379	1.7140	1.8917	2.0706	2.2508	2.4318	2.6138	2.7964	2.9797	3.1636	30.8
55.1-57.0	64.7- 67.1	0.2573	0.4193	0.5803	0.7465	0.9181	1.0944	1.2746	1.4578	1.6436	1.8315	2.0212	2.2123	2.4047	2.5982	2.7926	2.9878	3.1837	3.3803	31.1
57.1-59.0	67.2- 69.6	0.2796	0.4522	0.6229	0.7990	0.9811	1.1683	1.3597	1.5545	1.7521	1.9521	2.1540	2.3575	2.5624	2.7686	2.9757	3.1838	3.3927	3.6023	31.3
59.1-61.0	69.8- 72.2	0.3032	0.4867	0.6672	0.8535	1.0462	1.2444	1.4472	1.6537	1.8634	2.0756	2.2900	2.5062	2.7239	2.9430	3.1632	3.3845	3.6066	3.8295	31.6
61.1-63.0	72.3- 74.8	0.3283	0.5230	0.7134	0.9099	1.1132	1.3226	1.5370	1.7555	1.9774	2.2021	2.4292	2.6583	2.8891	3.1214	3.3549	3.5896	3.8252	4.0617	31.8
63.1-65.0	74.9- 77.4	0.3550	0.5610	0.7615	0.9682	1.1824	1.4031	1.6292	1.8598	2.0941	2.3316	2.5716	2.8138	3.0579	3.3036	3.5508	3.7991	4.0486	4.2990	32.0
65.1-67.0	77.5- 80.0	0.3833	0.6009	0.8115	1.0286	1.2537	1.4858	1.7238	1.9667	2.2136	2.4640	2.7171	2.9727	3.2303	3.4898	3.7507	4.0130	4.2765	4.5411	32.1
67.1-69.0	80.2- 82.7	0.4133	0.6428	0.8635	1.0911	1.3271	1.5707	1.8208	2.0761	2.3359	2.5993	2.8658	3.1350	3.4063	3.6797	3.9547	4.2312	4.5090	4.7880	32.3
69.1-71.0	82.8- 85.3	0.4452	0.6868	0.9177	1.1557	1.4028	1.6580	1.9202	2.1881	2.4608	2.7375	3.0176	3.3005	3.5859	3.8734	4.1627	4.4536	4.7460	5.0396	32.4
71.1-73.0	85.4- 88.0	0.4791	0.7329	0.9740	1.2225	1.4807	1.7477	2.0221	2.3027	2.5885	2.8786	3.1724	3.4693	3.7689	4.0707	4.3746	4.6802	4.9874	5.2959	32.5
73.1-75.0	88.1- 90.7	0.5150	0.7812	1.0325	1.2915	1.5609	1.8396	2.1264	2.4199	2.7189	3.0227	3.3303	3.6414	3.9553	4.2717	4.5903	4.9108	5.2330	5.5567	32.7
75.1-77.0	90.8- 93.3	0.5531	0.8319	1.0934	1.3629	1.6434	1.9340	2.2333	2.5397	2.8521	3.1696	3.4913	3.8167	4.1452	4.4764	4.8099	5.1455	5.4830	5.8220	32.8
77.1-79.0	93.5- 96.1	0.5935	0.8850	1.1567	1.4366	1.7283	2.0308	2.3426	2.6621	2.9880	3.3193	3.6553	3.9952	4.3384	4.6845	5.0332	5.3842	5.7371	6.0917	32.9
79.1-81.0	96.2- 98.8	0.6363	0.9407	1.2224	1.5128	1.8157	2.1301	2.4545	2.7871	3.1266	3.4720	3.8223	4.1768	4.5350	4.8963	5.2603	5.6267	5.9953	6.3658	32.9

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

7.0 PROVINCIAL MERCHANTABLE VOLUME TABLES

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

Table 23. Merchantable volume (m^3) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
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	5.3- 7.4	0.0015	0.0027	0.0038	0.0050	0.0062	0.0073	0.0085	0.0097	0.0108	0.0120	0.0132	0.0144	0.0156	0.0167	0.0179	0.0191	0.0203	0.0215	6.4
7.1- 9.0	7.6- 9.7	0.0053	0.0091	0.0129	0.0168	0.0207	0.0245	0.0284	0.0323	0.0362	0.0401	0.0440	0.0479	0.0519	0.0558	0.0597	0.0636	0.0675	0.0715	8.3
9.1-11.0	9.9- 12.0	0.0092	0.0156	0.0222	0.0288	0.0354	0.0420	0.0487	0.0554	0.0620	0.0687	0.0754	0.0821	0.0888	0.0955	0.1022	0.1089	0.1156	0.1223	10.1
11.1-13.0	12.2- 14.4	0.0134	0.0230	0.0327	0.0424	0.0522	0.0620	0.0718	0.0817	0.0915	0.1014	0.1113	0.1212	0.1311	0.1410	0.1509	0.1609	0.1708	0.1808	11.9
13.1-15.0	14.5- 16.7	0.0182	0.0312	0.0445	0.0578	0.0712	0.0847	0.0981	0.1116	0.1252	0.1387	0.1523	0.1659	0.1795	0.1931	0.2067	0.2203	0.2340	0.2476	13.6
15.1-17.0	16.8- 19.0	0.0234	0.0404	0.0576	0.0750	0.0925	0.1101	0.1277	0.1453	0.1630	0.1807	0.1984	0.2162	0.2340	0.2517	0.2695	0.2874	0.3052	0.3230	15.1
17.1-19.0	19.1- 21.3	0.0291	0.0505	0.0722	0.0941	0.1161	0.1382	0.1604	0.1827	0.2050	0.2273	0.2497	0.2721	0.2945	0.3170	0.3394	0.3619	0.3844	0.4070	16.6
19.1-21.0	21.4- 23.6	0.0354	0.0614	0.0880	0.1148	0.1418	0.1690	0.1962	0.2236	0.2510	0.2784	0.3059	0.3334	0.3610	0.3886	0.4162	0.4439	0.4715	0.4992	18.0
21.1-23.0	23.7- 25.9	0.0421	0.0733	0.1051	0.1373	0.1697	0.2024	0.2351	0.2680	0.3009	0.3339	0.3670	0.4001	0.4333	0.4665	0.4997	0.5330	0.5663	0.5996	19.2
23.1-25.0	26.0- 28.3	0.0493	0.0860	0.1235	0.1614	0.1997	0.2382	0.2769	0.3158	0.3547	0.3937	0.4328	0.4720	0.5112	0.5505	0.5898	0.6292	0.6686	0.7080	20.4
25.1-27.0	28.4- 30.6	0.0569	0.0995	0.1430	0.1872	0.2317	0.2765	0.3216	0.3668	0.4122	0.4577	0.5033	0.5489	0.5947	0.6405	0.6863	0.7322	0.7782	0.8242	21.5
27.1-29.0	30.7- 32.9	0.0651	0.1139	0.1638	0.2145	0.2657	0.3172	0.3691	0.4211	0.4733	0.5257	0.5782	0.6308	0.6835	0.7362	0.7891	0.8420	0.8949	0.9479	22.5
29.1-31.0	33.0- 35.3	0.0737	0.1291	0.1858	0.2433	0.3015	0.3602	0.4192	0.4785	0.5380	0.5977	0.6575	0.7174	0.7775	0.8376	0.8979	0.9582	1.0186	1.0790	23.4
31.1-33.0	35.4- 37.6	0.0829	0.1452	0.2089	0.2737	0.3393	0.4054	0.4720	0.5389	0.6061	0.6735	0.7410	0.8087	0.8766	0.9445	1.0126	1.0807	1.1490	1.2173	24.3
33.1-35.0	37.7- 39.9	0.0926	0.1621	0.2332	0.3056	0.3789	0.4529	0.5274	0.6023	0.6775	0.7530	0.8287	0.9046	0.9806	1.0568	1.1331	1.2095	1.2860	1.3625	25.0
35.1-37.0	40.1- 42.3	0.1028	0.1799	0.2587	0.3389	0.4203	0.5025	0.5853	0.6685	0.7522	0.8361	0.9203	1.0048	1.0894	1.1742	1.2591	1.3442	1.4293	1.5146	25.8
37.1-39.0	42.4- 44.6	0.1136	0.1984	0.2852	0.3737	0.4635	0.5542	0.6456	0.7376	0.8300	0.9228	1.0159	1.1093	1.2029	1.2967	1.3906	1.4847	1.5790	1.6733	26.4
39.1-41.0	44.7- 47.0	0.1249	0.2179	0.3129	0.4099	0.5083	0.6079	0.7083	0.8093	0.9109	1.0129	1.1153	1.2180	1.3209	1.4241	1.5274	1.6310	1.7346	1.8385	27.0
41.1-43.0	47.1- 49.3	0.1368	0.2382	0.3418	0.4475	0.5549	0.6636	0.7733	0.8838	0.9949	1.1064	1.2184	1.3307	1.4434	1.5563	1.6694	1.7827	1.8962	2.0099	27.6
43.1-45.0	49.5- 51.7	0.1493	0.2594	0.3718	0.4866	0.6032	0.7214	0.8407	0.9608	1.0817	1.2032	1.3251	1.4475	1.5701	1.6931	1.8164	1.9399	2.0636	2.1874	28.1
45.1-47.0	51.8- 54.1	0.1624	0.2815	0.4029	0.5270	0.6532	0.7811	0.9102	1.0404	1.1714	1.3031	1.4353	1.5680	1.7011	1.8345	1.9683	2.1022	2.2365	2.3709	28.5
47.1-49.0	54.2- 56.4	0.1762	0.3045	0.4352	0.5688	0.7048	0.8427	0.9820	1.1225	1.2640	1.4062	1.5490	1.6923	1.8361	1.9803	2.1249	2.2697	2.4148	2.5602	29.0
49.1-51.0	56.5- 58.8	0.1906	0.3285	0.4686	0.6120	0.7580	0.9061	1.0559	1.2070	1.3592	1.5122	1.6660	1.8203	1.9752	2.1305	2.2861	2.4422	2.5985	2.7551	29.4
51.1-53.0	58.9- 61.2	0.2057	0.3534	0.5032	0.6565	0.8128	0.9715	1.1320	1.2940	1.4571	1.6213	1.7862	1.9519	2.1181	2.2848	2.4519	2.6194	2.7873	2.9555	29.7
53.1-55.0	61.3- 63.5	0.2216	0.3792	0.5390	0.7025	0.8692	1.0386	1.2101	1.3832	1.5577	1.7332	1.9097	2.0869	2.2648	2.4432	2.6221	2.8014	2.9811	3.1612	30.0
55.1-57.0	63.7- 65.9	0.2381	0.4061	0.5759	0.7498	0.9273	1.1076	1.2903	1.4748	1.6608	1.8480	2.0362	2.2253	2.4151	2.6055	2.7965	2.9880	3.1798	3.3721	30.3
57.1-59.0	66.0- 68.3	0.2555	0.4340	0.6141	0.7985	0.9869	1.1784	1.3725	1.5686	1.7664	1.9656	2.1658	2.3670	2.5691	2.7718	2.9751	3.1790	3.3833	3.5881	30.6
59.1-61.0	68.4- 70.7	0.2736	0.4629	0.6535	0.8486	1.0480	1.2510	1.4567	1.6647	1.8745	2.0858	2.2984	2.5120	2.7265	2.9418	3.1578	3.3743	3.5914	3.8089	30.9
61.1-63.0	70.8- 73.1	0.2925	0.4929	0.6941	0.9001	1.1108	1.3253	1.5429	1.7629	1.9850	2.2087	2.4339	2.6601	2.8874	3.1155	3.3444	3.5739	3.8040	4.0346	31.1
63.1-65.0	73.2- 75.5	0.3124	0.5240	0.7360	0.9530	1.1751	1.4013	1.6310	1.8633	2.0979	2.3343	2.5722	2.8113	3.0516	3.2928	3.5349	3.7776	4.0210	4.2650	31.3
65.1-67.0	75.6- 77.9	0.3331	0.5562	0.7791	1.0073	1.2410	1.4791	1.7210	1.9658	2.2131	2.4623	2.7132	2.9656	3.2191	3.4736	3.7291	3.9853	4.2423	4.4998	31.5
67.1-69.0	78.0- 80.3	0.3547	0.5896	0.8235	1.0631	1.3084	1.5587	1.8129	2.0704	2.3306	2.5929	2.8570	3.1227	3.3897	3.6579	3.9270	4.1970	4.4677	4.7391	31.6
69.1-71.0	80.4- 82.7	0.3773	0.6242	0.8693	1.1203	1.3774	1.6399	1.9067	2.1771	2.4503	2.7259	3.0035	3.2828	3.5635	3.8454	4.1284	4.4124	4.6972	4.9827	31.8
71.1-73.0	82.8- 85.1	0.4010	0.6600	0.9164	1.1789	1.4480	1.7229	2.0024	2.2858	2.5722	2.8613	3.1526	3.4456	3.7402	4.0362	4.3334	4.6315	4.9306	5.2305	31.9
73.1-75.0	85.2- 87.5	0.4256	0.6970	0.9648	1.2390	1.5202	1.8075	2.0999	2.3965	2.6964	2.9991	3.3042	3.6112	3.9200	4.2302	4.5417	4.8543	5.1679	5.4823	32.1
75.1-77.0	87.6- 89.9	0.4513	0.7354	1.0147	1.3005	1.5939	1.8939	2.1993	2.5092	2.8227	3.1392	3.4583	3.7795	4.1026	4.4273	4.7533	5.0806	5.4089	5.7381	32.2
77.1-79.0	90.0- 92.3	0.4782	0.7751	1.0659	1.3636	1.6693	1.9820	2.3005	2.6238	2.9511	3.2816	3.6149	3.9505	4.2881	4.6274	4.9682	5.3103	5.6535	5.9978	32.3
79.1-81.0	92.5- 94.8	0.5062	0.8161	1.1186	1.4282	1.7462	2.0717	2.4035	2.7404	3.0816	3.4262	3.7739	4.1240	4.4763	4.8304	5.1861	5.5433	5.9017	6.2612	32.4

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

Table 24. Merchantable volume (m^3) from 0.30 m stump height to 7.0 cm top dib

SPECIES: WHITE SPRUCE
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	7.6- 9.7	0.0018	0.0032	0.0045	0.0058	0.0071	0.0083	0.0096	0.0109	0.0121	0.0134	0.0146	0.0159	0.0172	0.0184	0.0197	0.0210	0.0222	0.0235	8.3
9.1-11.0	9.9- 12.0	0.0069	0.0120	0.0172	0.0225	0.0278	0.0331	0.0384	0.0437	0.0491	0.0545	0.0598	0.0652	0.0706	0.0760	0.0814	0.0867	0.0921	0.0975	10.1
11.1-13.0	12.2- 14.4	0.0117	0.0203	0.0290	0.0378	0.0467	0.0556	0.0645	0.0735	0.0824	0.0914	0.1004	0.1094	0.1184	0.1274	0.1364	0.1454	0.1544	0.1635	11.9
13.1-15.0	14.5- 16.7	0.0167	0.0290	0.0415	0.0542	0.0668	0.0796	0.0924	0.1052	0.1180	0.1308	0.1437	0.1566	0.1695	0.1824	0.1953	0.2082	0.2211	0.2341	13.6
15.1-17.0	16.8- 19.0	0.0222	0.0385	0.0551	0.0719	0.0889	0.1058	0.1229	0.1399	0.1570	0.1741	0.1913	0.2085	0.2257	0.2429	0.2601	0.2773	0.2946	0.3118	15.1
17.1-19.0	19.1- 21.3	0.0280	0.0488	0.0700	0.0914	0.1129	0.1345	0.1562	0.1780	0.1998	0.2216	0.2435	0.2654	0.2874	0.3093	0.3313	0.3533	0.3753	0.3974	16.6
19.1-21.0	21.4- 23.6	0.0343	0.0599	0.0860	0.1124	0.1390	0.1657	0.1925	0.2194	0.2464	0.2734	0.3005	0.3276	0.3547	0.3819	0.4091	0.4363	0.4635	0.4908	18.0
21.1-23.0	23.7- 25.9	0.0411	0.0719	0.1033	0.1351	0.1671	0.1994	0.2318	0.2642	0.2968	0.3294	0.3621	0.3949	0.4276	0.4605	0.4933	0.5262	0.5591	0.5921	19.2
23.1-25.0	26.0- 28.3	0.0484	0.0847	0.1218	0.1594	0.1973	0.2355	0.2738	0.3123	0.3509	0.3896	0.4284	0.4672	0.5061	0.5450	0.5840	0.6230	0.6621	0.7012	20.4
25.1-27.0	28.4- 30.6	0.0561	0.0983	0.1415	0.1852	0.2295	0.2740	0.3187	0.3637	0.4087	0.4539	0.4992	0.5445	0.5899	0.6354	0.6810	0.7266	0.7722	0.8179	21.5
27.1-29.0	30.7- 32.9	0.0643	0.1127	0.1623	0.2127	0.2636	0.3148	0.3664	0.4181	0.4701	0.5222	0.5744	0.6267	0.6791	0.7315	0.7841	0.8367	0.8894	0.9421	22.5
29.1-31.0	33.0- 35.3	0.0730	0.1280	0.1844	0.2416	0.2995	0.3579	0.4167	0.4757	0.5349	0.5943	0.6539	0.7136	0.7734	0.8332	0.8932	0.9533	1.0134	1.0735	23.4
31.1-33.0	35.4- 37.6	0.0822	0.1441	0.2076	0.2721	0.3374	0.4033	0.4696	0.5362	0.6032	0.6703	0.7376	0.8051	0.8727	0.9404	1.0082	1.0761	1.1441	1.2121	24.3
33.1-35.0	37.7- 39.9	0.0919	0.1611	0.2319	0.3040	0.3771	0.4508	0.5251	0.5997	0.6747	0.7500	0.8254	0.9011	0.9769	1.0528	1.1289	1.2050	1.2813	1.3577	25.0
35.1-37.0	40.1- 42.3	0.1021	0.1788	0.2574	0.3374	0.4185	0.5005	0.5830	0.6661	0.7495	0.8332	0.9172	1.0015	1.0859	1.1704	1.2551	1.3400	1.4249	1.5100	25.8
37.1-39.0	42.4- 44.6	0.1129	0.1975	0.2840	0.3722	0.4617	0.5522	0.6434	0.7352	0.8274	0.9200	1.0129	1.1061	1.1995	1.2931	1.3868	1.4807	1.5747	1.6688	26.4
39.1-41.0	44.7- 47.0	0.1242	0.2169	0.3117	0.4085	0.5067	0.6060	0.7062	0.8070	0.9084	1.0102	1.1124	1.2149	1.3176	1.4206	1.5237	1.6271	1.7305	1.8342	27.0
41.1-43.0	47.1- 49.3	0.1362	0.2373	0.3406	0.4461	0.5533	0.6618	0.7713	0.8815	0.9924	1.1038	1.2156	1.3277	1.4402	1.5529	1.6658	1.7789	1.8923	2.0057	27.6
43.1-45.0	49.5- 51.7	0.1487	0.2585	0.3706	0.4852	0.6016	0.7196	0.8387	0.9586	1.0793	1.2006	1.3224	1.4445	1.5670	1.6898	1.8129	1.9362	2.0597	2.1834	28.1
45.1-47.0	51.8- 54.1	0.1618	0.2806	0.4018	0.5256	0.6516	0.7793	0.9083	1.0383	1.1691	1.3006	1.4326	1.5652	1.6981	1.8313	1.9649	2.0987	2.2327	2.3669	28.5
47.1-49.0	54.2- 56.4	0.1756	0.3036	0.4341	0.5674	0.7032	0.8409	0.9801	1.1204	1.2617	1.4037	1.5463	1.6895	1.8332	1.9772	2.1215	2.2662	2.4111	2.5563	29.0
49.1-51.0	56.5- 58.8	0.1900	0.3276	0.4675	0.6106	0.7564	0.9044	1.0540	1.2050	1.3570	1.5098	1.6634	1.8176	1.9722	2.1274	2.2829	2.4387	2.5949	2.7513	29.4
51.1-53.0	58.9- 61.2	0.2051	0.3525	0.5021	0.6552	0.8113	0.9698	1.1301	1.2919	1.4549	1.6189	1.7837	1.9491	2.1152	2.2817	2.4487	2.6160	2.7837	2.9517	29.7
53.1-55.0	61.3- 63.5	0.2210	0.3784	0.5379	0.7012	0.8677	1.0369	1.2082	1.3812	1.5555	1.7309	1.9071	2.0842	2.2619	2.4401	2.6189	2.7981	2.9776	3.1575	30.0
55.1-57.0	63.7- 65.9	0.2376	0.4052	0.5749	0.7485	0.9258	1.1059	1.2884	1.4728	1.6586	1.8457	2.0337	2.2226	2.4123	2.6025	2.7934	2.9846	3.1764	3.3684	30.3
57.1-59.0	66.0- 68.3	0.2549	0.4331	0.6130	0.7972	0.9854	1.1767	1.3707	1.5666	1.7642	1.9632	2.1633	2.3644	2.5663	2.7688	2.9720	3.1757	3.3799	3.5844	30.6
59.1-61.0	68.4- 70.7	0.2730	0.4621	0.6524	0.8473	1.0465	1.2493	1.4549	1.6627	1.8723	2.0835	2.2959	2.5094	2.7237	2.9389	3.1547	3.3711	3.5880	3.8054	30.9
61.1-63.0	70.8- 73.1	0.2920	0.4921	0.6930	0.8988	1.1093	1.3236	1.5410	1.7609	1.9828	2.2064	2.4314	2.6575	2.8846	3.1126	3.3413	3.5707	3.8006	4.0310	31.1
63.1-65.0	73.2- 75.5	0.3118	0.5232	0.7349	0.9517	1.1736	1.3997	1.6291	1.8613	2.0957	2.3319	2.5697	2.8087	3.0488	3.2899	3.5318	3.7744	4.0176	4.2614	31.3
65.1-67.0	75.6- 77.9	0.3326	0.5554	0.7780	1.0061	1.2395	1.4775	1.7192	1.9638	2.2109	2.4600	2.7108	2.9629	3.2163	3.4707	3.7260	3.9821	4.2389	4.4963	31.5
67.1-69.0	78.0- 80.3	0.3542	0.5888	0.8225	1.0618	1.3069	1.5570	1.8111	2.0684	2.3284	2.5906	2.8546	3.1201	3.3869	3.6549	3.9239	4.1937	4.4643	4.7356	31.6
69.1-71.0	80.4- 82.7	0.3768	0.6234	0.8682	1.1190	1.3760	1.6383	1.9049	2.1751	2.4481	2.7236	3.0010	3.2801	3.5607	3.8425	4.1253	4.4091	4.6938	4.9791	31.8
71.1-73.0	82.8- 85.1	0.4004	0.6592	0.9153	1.1776	1.4465	1.7212	2.0006	2.2837	2.5701	2.8590	3.1501	3.4430	3.7374	4.0333	4.3302	4.6283	4.9272	5.2269	31.9
73.1-75.0	85.2- 87.5	0.4251	0.6962	0.9638	1.2377	1.5187	1.8059	2.0981	2.3944	2.6942	2.9967	3.3017	3.6086	3.9172	4.2272	4.5386	4.8510	5.1644	5.4787	32.1
75.1-77.0	87.6- 89.9	0.4508	0.7346	1.0136	1.2992	1.5924	1.8922	2.1974	2.5071	2.8205	3.1368	3.4558	3.7768	4.0998	4.4243	4.7502	5.0772	5.4054	5.7345	32.2
77.1-79.0	90.0- 92.3	0.4777	0.7743	1.0648	1.3623	1.6678	1.9803	2.2986	2.6217	2.9488	3.2792	3.6123	3.9478	4.2852	4.6243	4.9650	5.3069	5.6500	5.9941	32.3
79.1-81.0	92.5- 94.8	0.5057	0.8153	1.1175	1.4269	1.7447	2.0700	2.4016	2.7383	3.0793	3.4238	3.7713	4.1213	4.4734	4.8274	5.1829	5.5399	5.8982	6.2575	32.4

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

Table 25. Merchantable volume (m^3) from 0.30 m stump height to 10.0 cm top dib

SPECIES: WHITE SPRUCE
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	12.2- 14.4	0.0057	0.0100	0.0142	0.0184	0.0226	0.0268	0.0310	0.0352	0.0394	0.0437	0.0479	0.0521	0.0563	0.0606	0.0648	0.0690	0.0733	0.0775	11.9
13.1-15.0	14.5- 16.7	0.0121	0.0213	0.0308	0.0404	0.0501	0.0599	0.0696	0.0795	0.0893	0.0992	0.1091	0.1190	0.1289	0.1389	0.1488	0.1588	0.1687	0.1787	13.6
15.1-17.0	16.8- 19.0	0.0183	0.0323	0.0466	0.0611	0.0758	0.0905	0.1053	0.1202	0.1350	0.1500	0.1649	0.1799	0.1948	0.2098	0.2248	0.2398	0.2549	0.2699	15.1
17.1-19.0	19.1- 21.3	0.0247	0.0435	0.0628	0.0823	0.1020	0.1218	0.1417	0.1617	0.1817	0.2018	0.2219	0.2420	0.2621	0.2823	0.3025	0.3227	0.3429	0.3631	16.6
19.1-21.0	21.4- 23.6	0.0314	0.0553	0.0797	0.1045	0.1296	0.1548	0.1800	0.2054	0.2309	0.2564	0.2819	0.3075	0.3331	0.3588	0.3845	0.4102	0.4359	0.4616	18.0
21.1-23.0	23.7- 25.9	0.0384	0.0677	0.0977	0.1281	0.1588	0.1897	0.2207	0.2519	0.2831	0.3144	0.3458	0.3772	0.4087	0.4402	0.4717	0.5033	0.5349	0.5665	19.2
23.1-25.0	26.0- 28.3	0.0459	0.0808	0.1166	0.1530	0.1897	0.2267	0.2639	0.3012	0.3386	0.3761	0.4137	0.4514	0.4891	0.5269	0.5647	0.6025	0.6404	0.6784	20.4
25.1-27.0	28.4- 30.6	0.0538	0.0947	0.1367	0.1794	0.2225	0.2659	0.3096	0.3535	0.3975	0.4416	0.4858	0.5301	0.5745	0.6189	0.6634	0.7080	0.7526	0.7972	21.5
27.1-29.0	30.7- 32.9	0.0621	0.1094	0.1579	0.2072	0.2571	0.3073	0.3579	0.4087	0.4597	0.5108	0.5621	0.6134	0.6649	0.7164	0.7680	0.8196	0.8713	0.9231	22.5
29.1-31.0	33.0- 35.3	0.0709	0.1249	0.1802	0.2365	0.2935	0.3509	0.4088	0.4669	0.5253	0.5838	0.6425	0.7013	0.7602	0.8192	0.8783	0.9374	0.9967	1.0560	23.4
31.1-33.0	35.4- 37.6	0.0802	0.1411	0.2036	0.2672	0.3316	0.3967	0.4622	0.5280	0.5941	0.6604	0.7269	0.7936	0.8603	0.9272	0.9942	1.0613	1.1285	1.1957	24.3
33.1-35.0	37.7- 39.9	0.0900	0.1582	0.2281	0.2994	0.3716	0.4445	0.5180	0.5919	0.6661	0.7406	0.8153	0.8902	0.9653	1.0404	1.1157	1.1911	1.2667	1.3422	25.0
35.1-37.0	40.1- 42.3	0.1003	0.1761	0.2537	0.3329	0.4133	0.4945	0.5763	0.6586	0.7413	0.8244	0.9076	0.9911	1.0748	1.1587	1.2427	1.3268	1.4110	1.4954	25.8
37.1-39.0	42.4- 44.6	0.1112	0.1948	0.2805	0.3679	0.4567	0.5465	0.6370	0.7281	0.8196	0.9115	1.0038	1.0963	1.1890	1.2819	1.3750	1.4682	1.5615	1.6550	26.4
39.1-41.0	44.7- 47.0	0.1226	0.2143	0.3083	0.4043	0.5018	0.6005	0.7000	0.8002	0.9009	1.0021	1.1036	1.2055	1.3076	1.4099	1.5124	1.6151	1.7179	1.8209	27.0
41.1-43.0	47.1- 49.3	0.1345	0.2348	0.3373	0.4421	0.5486	0.6564	0.7653	0.8749	0.9852	1.0960	1.2071	1.3187	1.4305	1.5426	1.6549	1.7675	1.8802	1.9930	27.6
43.1-45.0	49.5- 51.7	0.1471	0.2560	0.3674	0.4812	0.5971	0.7144	0.8329	0.9522	1.0723	1.1930	1.3142	1.4358	1.5577	1.6799	1.8024	1.9251	2.0481	2.1712	28.1
45.1-47.0	51.8- 54.1	0.1603	0.2782	0.3986	0.5218	0.6471	0.7742	0.9026	1.0321	1.1623	1.2932	1.4247	1.5567	1.6890	1.8217	1.9547	2.0880	2.2215	2.3552	28.5
47.1-49.0	54.2- 56.4	0.1741	0.3013	0.4310	0.5637	0.6989	0.8360	0.9746	1.1143	1.2550	1.3965	1.5386	1.6813	1.8244	1.9679	2.1117	2.2558	2.4002	2.5449	29.0
49.1-51.0	56.5- 58.8	0.1886	0.3253	0.4645	0.6070	0.7522	0.8996	1.0486	1.1990	1.3505	1.5028	1.6559	1.8095	1.9637	2.1183	2.2733	2.4286	2.5843	2.7402	29.4
51.1-53.0	58.9- 61.2	0.2037	0.3503	0.4992	0.6516	0.8071	0.9650	1.1248	1.2861	1.4486	1.6121	1.7763	1.9413	2.1068	2.2729	2.4394	2.6062	2.7734	2.9409	29.7
53.1-55.0	61.3- 63.5	0.2196	0.3762	0.5350	0.6976	0.8636	1.0323	1.2031	1.3755	1.5493	1.7242	1.9000	2.0765	2.2537	2.4315	2.6098	2.7884	2.9675	3.1469	30.0
55.1-57.0	63.7- 65.9	0.2362	0.4031	0.5720	0.7450	0.9217	1.1014	1.2833	1.4672	1.6525	1.8391	2.0267	2.2151	2.4043	2.5941	2.7844	2.9752	3.1665	3.3581	30.3
57.1-59.0	66.0- 68.3	0.2536	0.4310	0.6102	0.7938	0.9814	1.1722	1.3656	1.5611	1.7582	1.9567	2.1564	2.3570	2.5584	2.7605	2.9632	3.1664	3.3702	3.5743	30.6
59.1-61.0	68.4- 70.7	0.2717	0.4600	0.6496	0.8439	1.0426	1.2448	1.4499	1.6572	1.8664	2.0771	2.2891	2.5021	2.7160	2.9307	3.1460	3.3620	3.5784	3.7954	30.9
61.1-63.0	70.8- 73.1	0.2907	0.4900	0.6903	0.8955	1.1054	1.3192	1.5361	1.7555	1.9770	2.2001	2.4246	2.6503	2.8770	3.1045	3.3328	3.5617	3.7912	4.0212	31.1
63.1-65.0	73.2- 75.5	0.3106	0.5211	0.7322	0.9484	1.1698	1.3953	1.6243	1.8560	2.0899	2.3257	2.5630	2.8016	3.0413	3.2819	3.5234	3.7655	4.0083	4.2517	31.3
65.1-67.0	75.6- 77.9	0.3313	0.5534	0.7754	1.0028	1.2357	1.4732	1.7143	1.9585	2.2052	2.4538	2.7041	2.9559	3.2088	3.4628	3.7177	3.9733	4.2297	4.4867	31.5
67.1-69.0	78.0- 80.3	0.3530	0.5868	0.8198	1.0585	1.3031	1.5527	1.8063	2.0632	2.3227	2.5844	2.8480	3.1131	3.3795	3.6471	3.9156	4.1851	4.4552	4.7261	31.6
69.1-71.0	80.4- 82.7	0.3756	0.6214	0.8656	1.1157	1.3722	1.6340	1.9001	2.1698	2.4425	2.7175	2.9945	3.2732	3.5533	3.8347	4.1172	4.4005	4.6848	4.9697	31.8
71.1-73.0	82.8- 85.1	0.3992	0.6572	0.9127	1.1744	1.4428	1.7170	1.9958	2.2786	2.5644	2.8529	3.1436	3.4361	3.7301	4.0255	4.3221	4.6197	4.9183	5.2176	31.9
73.1-75.0	85.2- 87.5	0.4239	0.6943	0.9612	1.2345	1.5150	1.8016	2.0934	2.3893	2.6886	2.9907	3.2952	3.6017	3.9099	4.2195	4.5305	4.8425	5.1555	5.4695	32.1
75.1-77.0	87.6- 89.9	0.4497	0.7327	1.0110	1.2961	1.5887	1.8880	2.1927	2.5020	2.8149	3.1308	3.4493	3.7700	4.0925	4.4166	4.7421	5.0688	5.3966	5.7253	32.2
77.1-79.0	90.0- 92.3	0.4766	0.7724	1.0623	1.3591	1.6641	1.9760	2.2939	2.6166	2.9433	3.2732	3.6059	3.9409	4.2780	4.6167	4.9570	5.2985	5.6412	5.9849	32.3
79.1-81.0	92.5- 94.8	0.5046	0.8134	1.1150	1.4237	1.7410	2.0658	2.3969	2.7332	3.0737	3.4178	3.7649	4.1145	4.4662	4.8198	5.1749	5.5315	5.8894	6.2484	32.4

Table 26. Merchantable volume (m^3) from 0.30 m stump height to 11.0 cm top dib

SPECIES: WHITE SPRUCE
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	12.2- 14.4	0.0028	0.0046	0.0062	0.0076	0.0089	0.0102	0.0115	0.0128	0.0142	0.0155	0.0168	0.0181	0.0194	0.0207	0.0220	0.0233	0.0247	0.0260	11.9
13.1-15.0	14.5- 16.7	0.0096	0.0169	0.0244	0.0318	0.0394	0.0470	0.0546	0.0622	0.0699	0.0776	0.0853	0.0930	0.1008	0.1085	0.1163	0.1240	0.1318	0.1396	13.6
15.1-17.0	16.8- 19.0	0.0163	0.0289	0.0418	0.0548	0.0680	0.0814	0.0947	0.1081	0.1216	0.1351	0.1486	0.1621	0.1757	0.1893	0.2029	0.2165	0.2301	0.2437	15.1
17.1-19.0	19.1- 21.3	0.0230	0.0407	0.0588	0.0773	0.0959	0.1146	0.1334	0.1523	0.1712	0.1902	0.2092	0.2283	0.2474	0.2664	0.2856	0.3047	0.3238	0.3430	16.6
19.1-21.0	21.4- 23.6	0.0299	0.0528	0.0764	0.1003	0.1244	0.1487	0.1731	0.1976	0.2222	0.2468	0.2715	0.2962	0.3209	0.3457	0.3705	0.3954	0.4202	0.4451	18.0
21.1-23.0	23.7- 25.9	0.0371	0.0655	0.0947	0.1243	0.1543	0.1844	0.2147	0.2451	0.2756	0.3062	0.3368	0.3675	0.3982	0.4290	0.4598	0.4906	0.5215	0.5524	19.2
23.1-25.0	26.0- 28.3	0.0447	0.0789	0.1140	0.1497	0.1857	0.2220	0.2586	0.2952	0.3320	0.3689	0.4058	0.4428	0.4799	0.5170	0.5542	0.5914	0.6286	0.6659	20.4
25.1-27.0	28.4- 30.6	0.0527	0.0929	0.1343	0.1763	0.2189	0.2617	0.3048	0.3481	0.3915	0.4351	0.4787	0.5224	0.5662	0.6101	0.6540	0.6980	0.7420	0.7860	21.5
27.1-29.0	30.7- 32.9	0.0611	0.1077	0.1556	0.2044	0.2537	0.3035	0.3535	0.4038	0.4542	0.5048	0.5556	0.6064	0.6573	0.7083	0.7594	0.8105	0.8617	0.9129	22.5
29.1-31.0	33.0- 35.3	0.0700	0.1233	0.1781	0.2339	0.2903	0.3473	0.4047	0.4623	0.5202	0.5783	0.6365	0.6948	0.7532	0.8118	0.8704	0.9291	0.9878	1.0466	23.4
31.1-33.0	35.4- 37.6	0.0793	0.1396	0.2016	0.2647	0.3287	0.3933	0.4583	0.5237	0.5894	0.6552	0.7213	0.7875	0.8539	0.9203	0.9869	1.0535	1.1203	1.1871	24.3
33.1-35.0	37.7- 39.9	0.0891	0.1568	0.2262	0.2970	0.3688	0.4414	0.5144	0.5879	0.6617	0.7358	0.8101	0.8846	0.9592	1.0340	1.1089	1.1839	1.2590	1.3342	25.0
35.1-37.0	40.1- 42.3	0.0995	0.1747	0.2519	0.3307	0.4107	0.4915	0.5729	0.6548	0.7371	0.8198	0.9027	0.9858	1.0691	1.1526	1.2362	1.3200	1.4038	1.4878	25.8
37.1-39.0	42.4- 44.6	0.1104	0.1935	0.2788	0.3658	0.4542	0.5436	0.6337	0.7244	0.8156	0.9072	0.9991	1.0912	1.1836	1.2761	1.3688	1.4617	1.5547	1.6478	26.4
39.1-41.0	44.7- 47.0	0.1218	0.2131	0.3067	0.4023	0.4994	0.5977	0.6969	0.7967	0.8971	0.9980	1.0991	1.2007	1.3024	1.4044	1.5066	1.6089	1.7114	1.8141	27.0
41.1-43.0	47.1- 49.3	0.1338	0.2336	0.3357	0.4401	0.5463	0.6538	0.7623	0.8716	0.9815	1.0920	1.2028	1.3141	1.4256	1.5374	1.6494	1.7616	1.8740	1.9865	27.6
43.1-45.0	49.5- 51.7	0.1464	0.2549	0.3659	0.4793	0.5948	0.7118	0.8300	0.9490	1.0688	1.1892	1.3101	1.4313	1.5530	1.6749	1.7971	1.9195	2.0421	2.1649	28.1
45.1-47.0	51.8- 54.1	0.1596	0.2771	0.3971	0.5199	0.6450	0.7717	0.8998	1.0289	1.1589	1.2895	1.4207	1.5524	1.6845	1.8169	1.9496	2.0825	2.2157	2.3491	28.5
47.1-49.0	54.2- 56.4	0.1734	0.3002	0.4295	0.5619	0.6967	0.8335	0.9718	1.1113	1.2518	1.3929	1.5348	1.6772	1.8200	1.9632	2.1067	2.2506	2.3947	2.5391	29.0
49.1-51.0	56.5- 58.8	0.1879	0.3242	0.4631	0.6052	0.7501	0.8972	1.0460	1.1961	1.3473	1.4993	1.6521	1.8055	1.9594	2.1138	2.2685	2.4236	2.5789	2.7346	29.4
51.1-53.0	58.9- 61.2	0.2031	0.3492	0.4978	0.6499	0.8051	0.9627	1.1222	1.2832	1.4455	1.6087	1.7727	1.9374	2.1027	2.2685	2.4347	2.6013	2.7682	2.9355	29.7
53.1-55.0	61.3- 63.5	0.2190	0.3752	0.5336	0.6960	0.8617	1.0300	1.2005	1.3727	1.5462	1.7209	1.8964	2.0727	2.2497	2.4272	2.6052	2.7836	2.9625	3.1416	30.0
55.1-57.0	63.7- 65.9	0.2356	0.4021	0.5707	0.7434	0.9198	1.0991	1.2809	1.4644	1.6495	1.8358	2.0232	2.2114	2.4003	2.5899	2.7800	2.9706	3.1616	3.3529	30.3
57.1-59.0	66.0- 68.3	0.2530	0.4300	0.6089	0.7922	0.9795	1.1700	1.3632	1.5584	1.7553	1.9536	2.1530	2.3533	2.5545	2.7564	2.9589	3.1619	3.3654	3.5692	30.6
59.1-61.0	68.4- 70.7	0.2711	0.4590	0.6483	0.8424	1.0407	1.2427	1.4475	1.6546	1.8635	2.0740	2.2857	2.4985	2.7122	2.9266	3.1418	3.3575	3.5737	3.7904	30.9
61.1-63.0	70.8- 73.1	0.2901	0.4891	0.6890	0.8939	1.1036	1.3171	1.5338	1.7529	1.9742	2.1971	2.4213	2.6468	2.8732	3.1005	3.3286	3.5573	3.7866	4.0164	31.1
63.1-65.0	73.2- 75.5	0.3100	0.5202	0.7309	0.9469	1.1679	1.3932	1.6220	1.8534	2.0871	2.3227	2.5598	2.7981	3.0376	3.2780	3.5193	3.7612	4.0038	4.2470	31.3
65.1-67.0	75.6- 77.9	0.3308	0.5525	0.7741	1.0013	1.2339	1.4711	1.7121	1.9560	2.2024	2.4508	2.7010	2.9525	3.2052	3.4590	3.7136	3.9691	4.2253	4.4820	31.5
67.1-69.0	78.0- 80.3	0.3524	0.5859	0.8186	1.0570	1.3014	1.5507	1.8040	2.0607	2.3200	2.5815	2.8448	3.1097	3.3760	3.6433	3.9117	4.1809	4.4508	4.7215	31.6
69.1-71.0	80.4- 82.7	0.3751	0.6205	0.8644	1.1143	1.3704	1.6320	1.8979	2.1674	2.4398	2.7146	2.9914	3.2699	3.5498	3.8310	4.1132	4.3964	4.6804	4.9652	31.8
71.1-73.0	82.8- 85.1	0.3987	0.6564	0.9115	1.1729	1.4411	1.7150	1.9936	2.2761	2.5618	2.8500	3.1405	3.4328	3.7266	4.0218	4.3182	4.6156	4.9140	5.2131	31.9
73.1-75.0	85.2- 87.5	0.4234	0.6934	0.9600	1.2330	1.5132	1.7997	2.0912	2.3868	2.6859	2.9879	3.2922	3.5984	3.9064	4.2159	4.5266	4.8385	5.1513	5.4650	32.1
75.1-77.0	87.6- 89.9	0.4492	0.7318	1.0099	1.2946	1.5870	1.8860	2.1906	2.4996	2.8122	3.1280	3.4463	3.7668	4.0891	4.4130	4.7383	5.0648	5.3924	5.7209	32.2
77.1-79.0	90.0- 92.3	0.4761	0.7715	1.0611	1.3577	1.6624	1.9741	2.2918	2.6142	2.9407	3.2704	3.6029	3.9377	4.2746	4.6131	4.9532	5.2945	5.6371	5.9806	32.3
79.1-81.0	92.5- 94.8	0.5041	0.8126	1.1139	1.4223	1.7393	2.0639	2.3948	2.7308	3.0711	3.4150	3.7619	4.1113	4.4628	4.8162	5.1712	5.5276	5.8853	6.2440	32.4

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Table 27. Merchantable volume (m^3) from 0.30 m stump height to 13.0 cm top dib

SPECIES: WHITE SPRUCE
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	14.5- 16.7	0.0036	0.0058	0.0074	0.0089	0.0104	0.0117	0.0131	0.0145	0.0159	0.0173	0.0187	0.0201	0.0216	0.0230	0.0244	0.0259	0.0273	0.0287	13.6
15.1-17.0	16.8- 19.0	0.0111	0.0193	0.0275	0.0357	0.0439	0.0522	0.0605	0.0688	0.0771	0.0854	0.0937	0.1021	0.1104	0.1188	0.1272	0.1356	0.1440	0.1524	15.1
17.1-19.0	19.1- 21.3	0.0186	0.0329	0.0476	0.0625	0.0776	0.0928	0.1081	0.1235	0.1390	0.1545	0.1700	0.1856	0.2012	0.2168	0.2324	0.2481	0.2637	0.2794	16.6
19.1-21.0	21.4- 23.6	0.0261	0.0463	0.0670	0.0882	0.1096	0.1312	0.1529	0.1747	0.1966	0.2186	0.2406	0.2626	0.2847	0.3068	0.3290	0.3511	0.3733	0.3955	18.0
21.1-23.0	23.7- 25.9	0.0337	0.0598	0.0867	0.1140	0.1417	0.1696	0.1977	0.2259	0.2542	0.2826	0.3110	0.3395	0.3680	0.3966	0.4252	0.4539	0.4826	0.5113	19.2
23.1-25.0	26.0- 28.3	0.0416	0.0738	0.1069	0.1406	0.1747	0.2091	0.2437	0.2785	0.3134	0.3484	0.3835	0.4186	0.4538	0.4891	0.5244	0.5597	0.5951	0.6305	20.4
25.1-27.0	28.4- 30.6	0.0499	0.0883	0.1278	0.1681	0.2090	0.2501	0.2916	0.3332	0.3750	0.4169	0.4589	0.5010	0.5431	0.5854	0.6276	0.6700	0.7123	0.7548	21.5
27.1-29.0	30.7- 32.9	0.0585	0.1034	0.1497	0.1969	0.2447	0.2929	0.3415	0.3903	0.4393	0.4884	0.5377	0.5870	0.6365	0.6860	0.7357	0.7853	0.8350	0.8848	22.5
29.1-31.0	33.0- 35.3	0.0675	0.1193	0.1726	0.2269	0.2820	0.3376	0.3936	0.4499	0.5065	0.5632	0.6201	0.6771	0.7342	0.7914	0.8487	0.9061	0.9635	1.0210	23.4
31.1-33.0	35.4- 37.6	0.0770	0.1359	0.1965	0.2583	0.3210	0.3843	0.4481	0.5122	0.5766	0.6413	0.7061	0.7711	0.8363	0.9015	0.9669	1.0323	1.0979	1.1635	24.3
33.1-35.0	37.7- 39.9	0.0870	0.1532	0.2214	0.2909	0.3615	0.4329	0.5048	0.5771	0.6498	0.7228	0.7959	0.8693	0.9428	1.0165	1.0903	1.1641	1.2381	1.3122	25.0
35.1-37.0	40.1- 42.3	0.0974	0.1714	0.2473	0.3249	0.4038	0.4835	0.5638	0.6447	0.7259	0.8075	0.8894	0.9715	1.0537	1.1362	1.2188	1.3015	1.3843	1.4672	25.8
37.1-39.0	42.4- 44.6	0.1084	0.1903	0.2744	0.3603	0.4476	0.5360	0.6251	0.7148	0.8050	0.8956	0.9865	1.0777	1.1690	1.2606	1.3524	1.4443	1.5363	1.6284	26.4
39.1-41.0	44.7- 47.0	0.1199	0.2100	0.3025	0.3970	0.4931	0.5904	0.6887	0.7876	0.8870	0.9869	1.0872	1.1878	1.2886	1.3897	1.4910	1.5924	1.6940	1.7958	27.0
41.1-43.0	47.1- 49.3	0.1320	0.2306	0.3317	0.4351	0.5403	0.6468	0.7544	0.8628	0.9719	1.0814	1.1914	1.3018	1.4124	1.5234	1.6345	1.7459	1.8574	1.9691	27.6
43.1-45.0	49.5- 51.7	0.1446	0.2520	0.3619	0.4745	0.5890	0.7051	0.8224	0.9406	1.0596	1.1791	1.2991	1.4196	1.5404	1.6615	1.7829	1.9045	2.0263	2.1482	28.1
45.1-47.0	51.8- 54.1	0.1579	0.2743	0.3933	0.5152	0.6394	0.7653	0.8925	1.0208	1.1500	1.2798	1.4102	1.5411	1.6724	1.8040	1.9359	2.0681	2.2005	2.3332	28.5
47.1-49.0	54.2- 56.4	0.1718	0.2975	0.4259	0.5573	0.6913	0.8273	0.9648	1.1035	1.2431	1.3836	1.5246	1.6663	1.8083	1.9508	2.0936	2.2367	2.3801	2.5237	29.0
49.1-51.0	56.5- 58.8	0.1863	0.3216	0.4595	0.6008	0.7448	0.8911	1.0391	1.1885	1.3389	1.4903	1.6423	1.7950	1.9482	2.1018	2.2558	2.4101	2.5648	2.7197	29.4
51.1-53.0	58.9- 61.2	0.2015	0.3467	0.4943	0.6456	0.8000	0.9568	1.1156	1.2758	1.4374	1.5998	1.7632	1.9272	2.0918	2.2569	2.4224	2.5883	2.7546	2.9211	29.7
53.1-55.0	61.3- 63.5	0.2175	0.3727	0.5302	0.6917	0.8566	1.0243	1.1940	1.3655	1.5383	1.7123	1.8871	2.0628	2.2391	2.4159	2.5933	2.7711	2.9492	3.1277	30.0
55.1-57.0	63.7- 65.9	0.2341	0.3997	0.5673	0.7392	0.9149	1.0935	1.2745	1.4574	1.6418	1.8275	2.0142	2.2017	2.3900	2.5789	2.7684	2.9583	3.1487	3.3394	30.3
57.1-59.0	66.0- 68.3	0.2515	0.4277	0.6056	0.7881	0.9747	1.1645	1.3570	1.5515	1.7478	1.9454	2.1442	2.3439	2.5444	2.7457	2.9475	3.1499	3.3528	3.5561	30.6
59.1-61.0	68.4- 70.7	0.2697	0.4567	0.6452	0.8384	1.0360	1.2373	1.4414	1.6478	1.8562	2.0660	2.2771	2.4893	2.7023	2.9162	3.1307	3.3458	3.5615	3.7776	30.9
61.1-63.0	70.8- 73.1	0.2888	0.4868	0.6859	0.8900	1.0989	1.3118	1.5278	1.7463	1.9669	2.1892	2.4129	2.6377	2.8636	3.0903	3.3178	3.5459	3.7746	4.0038	31.1
63.1-65.0	73.2- 75.5	0.3087	0.5180	0.7279	0.9430	1.1634	1.3880	1.6161	1.8469	2.0800	2.3150	2.5515	2.7892	3.0281	3.2680	3.5086	3.7500	3.9921	4.2346	31.3
65.1-67.0	75.6- 77.9	0.3294	0.5503	0.7711	0.9975	1.2294	1.4659	1.7063	1.9496	2.1954	2.4433	2.6928	2.9437	3.1959	3.4491	3.7032	3.9581	4.2137	4.4700	31.5
67.1-69.0	78.0- 80.3	0.3512	0.5837	0.8156	1.0533	1.2969	1.5456	1.7983	2.0544	2.3131	2.5740	2.8368	3.1011	3.3668	3.6336	3.9014	4.1701	4.4395	4.7096	31.6
69.1-71.0	80.4- 82.7	0.3738	0.6184	0.8614	1.1106	1.3661	1.6270	1.8923	2.1612	2.4330	2.7072	2.9834	3.2614	3.5408	3.8214	4.1031	4.3858	4.6693	4.9535	31.8
71.1-73.0	82.8- 85.1	0.3975	0.6543	0.9086	1.1693	1.4367	1.7100	1.9880	2.2700	2.5551	2.8428	3.1327	3.4244	3.7177	4.0124	4.3083	4.6052	4.9030	5.2016	31.9
73.1-75.0	85.2- 87.5	0.4222	0.6914	0.9571	1.2294	1.5090	1.7948	2.0857	2.3808	2.6793	2.9807	3.2844	3.5902	3.8976	4.2066	4.5168	4.8281	5.1405	5.4537	32.1
75.1-77.0	87.6- 89.9	0.4480	0.7298	1.0070	1.2911	1.5828	1.8812	2.1851	2.4935	2.8057	3.1209	3.4387	3.7586	4.0804	4.4038	4.7286	5.0546	5.3817	5.7097	32.2
77.1-79.0	90.0- 92.3	0.4749	0.7695	1.0583	1.3542	1.6582	1.9693	2.2863	2.6082	2.9341	3.2633	3.5953	3.9296	4.2660	4.6040	4.9436	5.2845	5.6265	5.9695	32.3
79.1-81.0	92.5- 94.8	0.5030	0.8106	1.1111	1.4188	1.7351	2.0591	2.3894	2.7249	3.0647	3.4080	3.7544	4.1033	4.4543	4.8072	5.1617	5.5176	5.8748	6.2331	32.4

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

Table 28. Merchantable volume (m^3) from 0.30 m stump height to 15.0 cm top dib

SPECIES: WHITE SPRUCE
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	16.8- 19.0	0.0047	0.0072	0.0091	0.0107	0.0122	0.0137	0.0151	0.0166	0.0181	0.0197	0.0212	0.0227	0.0243	0.0259	0.0274	0.0290	0.0306	0.0322	15.1
17.1-19.0	19.1- 21.3	0.0128	0.0219	0.0307	0.0394	0.0481	0.0567	0.0652	0.0738	0.0824	0.0909	0.0995	0.1080	0.1166	0.1251	0.1337	0.1422	0.1508	0.1593	16.6
19.1-21.0	21.4- 23.6	0.0210	0.0369	0.0532	0.0697	0.0863	0.1032	0.1202	0.1372	0.1543	0.1715	0.1887	0.2060	0.2233	0.2407	0.2581	0.2754	0.2929	0.3103	18.0
21.1-23.0	23.7- 25.9	0.0292	0.0518	0.0750	0.0986	0.1226	0.1468	0.1713	0.1958	0.2205	0.2452	0.2700	0.2949	0.3198	0.3448	0.3698	0.3948	0.4199	0.4449	19.2
23.1-25.0	26.0- 28.3	0.0376	0.0667	0.0967	0.1273	0.1584	0.1898	0.2214	0.2531	0.2851	0.3171	0.3492	0.3814	0.4136	0.4459	0.4783	0.5107	0.5431	0.5756	20.4
25.1-27.0	28.4- 30.6	0.0462	0.0819	0.1188	0.1564	0.1946	0.2332	0.2720	0.3111	0.3504	0.3897	0.4292	0.4688	0.5084	0.5481	0.5879	0.6277	0.6676	0.7075	21.5
27.1-29.0	30.7- 32.9	0.0551	0.0976	0.1415	0.1863	0.2318	0.2778	0.3241	0.3706	0.4174	0.4643	0.5113	0.5585	0.6058	0.6531	0.7005	0.7480	0.7955	0.8431	22.5
29.1-31.0	33.0- 35.3	0.0644	0.1139	0.1650	0.2173	0.2703	0.3238	0.3778	0.4321	0.4867	0.5414	0.5963	0.6513	0.7065	0.7617	0.8170	0.8724	0.9279	0.9834	23.4
31.1-33.0	35.4- 37.6	0.0741	0.1309	0.1895	0.2493	0.3101	0.3716	0.4335	0.4958	0.5585	0.6213	0.6844	0.7476	0.8109	0.8744	0.9380	1.0016	1.0654	1.1292	24.3
33.1-35.0	37.7- 39.9	0.0842	0.1485	0.2148	0.2826	0.3514	0.4211	0.4913	0.5619	0.6330	0.7043	0.7758	0.8475	0.9194	0.9914	1.0636	1.1358	1.2082	1.2806	25.0
35.1-37.0	40.1- 42.3	0.0948	0.1669	0.2411	0.3171	0.3943	0.4724	0.5512	0.6305	0.7102	0.7903	0.8706	0.9512	1.0319	1.1129	1.1939	1.2751	1.3564	1.4379	25.8
37.1-39.0	42.4- 44.6	0.1059	0.1861	0.2685	0.3528	0.4386	0.5255	0.6132	0.7014	0.7902	0.8794	0.9688	1.0586	1.1486	1.2387	1.3291	1.4196	1.5102	1.6009	26.4
39.1-41.0	44.7- 47.0	0.1175	0.2060	0.2969	0.3899	0.4846	0.5805	0.6773	0.7749	0.8730	0.9716	1.0705	1.1698	1.2693	1.3691	1.4690	1.5691	1.6694	1.7698	27.0
41.1-43.0	47.1- 49.3	0.1297	0.2267	0.3263	0.4283	0.5321	0.6373	0.7436	0.8508	0.9585	1.0668	1.1756	1.2847	1.3941	1.5038	1.6137	1.7238	1.8341	1.9445	27.6
43.1-45.0	49.5- 51.7	0.1424	0.2483	0.3568	0.4679	0.5812	0.6960	0.8121	0.9290	1.0468	1.1651	1.2840	1.4033	1.5229	1.6428	1.7630	1.8834	2.0041	2.1249	28.1
45.1-47.0	51.8- 54.1	0.1558	0.2707	0.3884	0.5089	0.6318	0.7565	0.8826	1.0097	1.1377	1.2664	1.3957	1.5255	1.6556	1.7861	1.9170	2.0480	2.1793	2.3109	28.5
47.1-49.0	54.2- 56.4	0.1697	0.2940	0.4210	0.5512	0.6840	0.8188	0.9552	1.0928	1.2313	1.3707	1.5107	1.6512	1.7922	1.9337	2.0754	2.2175	2.3598	2.5023	29.0
49.1-51.0	56.5- 58.8	0.1843	0.3183	0.4548	0.5949	0.7378	0.8830	1.0299	1.1782	1.3276	1.4778	1.6289	1.7805	1.9327	2.0853	2.2383	2.3916	2.5453	2.6992	29.4
51.1-53.0	58.9- 61.2	0.1996	0.3434	0.4898	0.6398	0.7931	0.9489	1.1066	1.2658	1.4263	1.5878	1.7502	1.9132	2.0768	2.2409	2.4055	2.5704	2.7357	2.9013	29.7
53.1-55.0	61.3- 63.5	0.2156	0.3695	0.5258	0.6862	0.8500	1.0166	1.1853	1.3558	1.5276	1.7006	1.8745	2.0492	2.2246	2.4005	2.5769	2.7538	2.9310	3.1086	30.0
55.1-57.0	63.7- 65.9	0.2323	0.3966	0.5630	0.7338	0.9084	1.0860	1.2660	1.4479	1.6314	1.8161	2.0019	2.1885	2.3759	2.5639	2.7525	2.9415	3.1310	3.3209	30.3
57.1-59.0	66.0- 68.3	0.2498	0.4246	0.6014	0.7828	0.9683	1.1572	1.3487	1.5423	1.7376	1.9344	2.1322	2.3311	2.5307	2.7311	2.9321	3.1336	3.3356	3.5381	30.6
59.1-61.0	68.4- 70.7	0.2680	0.4537	0.6410	0.8332	1.0298	1.2301	1.4333	1.6388	1.8463	2.0552	2.2654	2.4768	2.6890	2.9020	3.1157	3.3300	3.5448	3.7601	30.9
61.1-63.0	70.8- 73.1	0.2871	0.4839	0.6819	0.8849	1.0929	1.3048	1.5198	1.7375	1.9572	2.1787	2.4015	2.6255	2.8506	3.0765	3.3031	3.5304	3.7583	3.9867	31.1
63.1-65.0	73.2- 75.5	0.3070	0.5151	0.7239	0.9381	1.1574	1.3811	1.6083	1.8383	2.0705	2.3046	2.5403	2.7773	3.0154	3.2544	3.4943	3.7349	3.9761	4.2179	31.3
65.1-67.0	75.6- 77.9	0.3278	0.5475	0.7672	0.9926	1.2235	1.4592	1.6986	1.9411	2.1861	2.4331	2.6819	2.9320	3.1834	3.4358	3.6892	3.9433	4.1982	4.4536	31.5
67.1-69.0	78.0- 80.3	0.3496	0.5810	0.8118	1.0485	1.2912	1.5390	1.7908	2.0460	2.3039	2.5641	2.8261	3.0896	3.3545	3.6206	3.8876	4.1556	4.4243	4.6936	31.6
69.1-71.0	80.4- 82.7	0.3723	0.6157	0.8577	1.1058	1.3604	1.6204	1.8849	2.1529	2.4240	2.6974	2.9729	3.2501	3.5287	3.8086	4.0896	4.3716	4.6543	4.9378	31.8
71.1-73.0	82.8- 85.1	0.3960	0.6516	0.9049	1.1646	1.4312	1.7036	1.9808	2.2619	2.5462	2.8331	3.1223	3.4133	3.7059	3.9999	4.2950	4.5912	4.8883	5.1862	31.9
73.1-75.0	85.2- 87.5	0.4207	0.6888	0.9535	1.2248	1.5035	1.7884	2.0785	2.3728	2.6706	2.9712	3.2742	3.5792	3.8860	4.1942	4.5037	4.8144	5.1260	5.4385	32.1
75.1-77.0	87.6- 89.9	0.4465	0.7272	1.0035	1.2865	1.5774	1.8749	2.1780	2.4857	2.7970	3.1115	3.4286	3.7478	4.0689	4.3916	4.7157	5.0410	5.3674	5.6948	32.2
77.1-79.0	90.0- 92.3	0.4735	0.7670	1.0548	1.3497	1.6528	1.9631	2.2793	2.6005	2.9256	3.2541	3.5854	3.9190	4.2546	4.5920	4.9309	5.2711	5.6124	5.9548	32.3
79.1-81.0	92.5- 94.8	0.5016	0.8082	1.1076	1.4144	1.7298	2.0530	2.3825	2.7172	3.0563	3.3989	3.7445	4.0927	4.4431	4.7953	5.1491	5.5044	5.8609	6.2186	32.4

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

Table 29. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
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	4.4- 6.7	0.34	0.61	0.87	1.12	1.37	1.62	1.87	2.12	2.37	2.61	2.86	3.11	3.35	3.60	3.85	4.09	4.34	4.59	5.8
7.1- 9.0	6.9- 9.2	1.51	2.57	3.64	4.71	5.79	6.87	7.95	9.03	10.12	11.20	12.28	13.37	14.45	15.53	16.62	17.70	18.78	19.87	7.3
9.1-11.0	9.4- 11.7	1.98	3.32	4.68	6.04	7.41	8.77	10.14	11.51	12.88	14.25	15.62	16.99	18.36	19.73	21.10	22.47	23.84	25.21	8.8
11.1-13.0	11.9- 14.2	2.23	3.73	5.24	6.75	8.27	9.79	11.32	12.84	14.36	15.89	17.41	18.94	20.46	21.99	23.51	25.04	26.56	28.09	10.2
13.1-15.0	14.3- 16.7	2.38	3.97	5.58	7.20	8.81	10.43	12.06	13.68	15.30	16.92	18.55	20.17	21.79	23.42	25.04	26.66	28.29	29.91	11.6
15.1-17.0	16.8- 19.1	2.47	4.13	5.81	7.49	9.18	10.87	12.56	14.25	15.94	17.63	19.32	21.01	22.70	24.40	26.09	27.78	29.47	31.16	13.0
17.1-19.0	19.2- 21.6	2.53	4.24	5.97	7.71	9.44	11.18	12.92	14.66	16.40	18.14	19.88	21.62	23.37	25.11	26.85	28.59	30.33	32.07	14.2
19.1-21.0	21.7- 24.0	2.58	4.32	6.09	7.86	9.64	11.41	13.19	14.97	16.75	18.53	20.30	22.08	23.86	25.64	27.42	29.20	30.98	32.76	15.5
21.1-23.0	24.1- 26.4	2.60	4.38	6.17	7.98	9.78	11.59	13.40	15.21	17.01	18.82	20.63	22.44	24.25	26.06	27.86	29.67	31.48	33.29	16.6
23.1-25.0	26.5- 28.8	2.62	4.42	6.24	8.07	9.90	11.73	13.56	15.39	17.22	19.06	20.89	22.72	24.55	26.38	28.22	30.05	31.88	33.71	17.8
25.1-27.0	28.9- 31.2	2.63	4.45	6.29	8.14	9.99	11.84	13.69	15.54	17.39	19.24	21.09	22.95	24.80	26.65	28.50	30.35	32.20	34.05	18.8
27.1-29.0	31.3- 33.6	2.63	4.47	6.32	8.19	10.06	11.92	13.79	15.66	17.53	19.39	21.26	23.13	25.00	26.86	28.73	30.60	32.47	34.33	19.8
29.1-31.0	33.7- 35.9	2.63	4.48	6.35	8.23	10.11	11.99	13.87	15.76	17.64	19.52	21.40	23.28	25.16	27.04	28.92	30.80	32.69	34.57	20.8
31.1-33.0	36.0- 38.3	2.63	4.49	6.37	8.26	10.15	12.05	13.94	15.84	17.73	19.62	21.52	23.41	25.30	27.19	29.09	30.98	32.87	34.76	21.8
33.1-35.0	38.4- 40.6	2.63	4.49	6.38	8.29	10.19	12.09	14.00	15.90	17.81	19.71	21.61	23.52	25.42	27.32	29.22	31.12	33.03	34.93	22.6
35.1-37.0	40.7- 42.9	2.62	4.49	6.39	8.30	10.22	12.13	14.04	15.96	17.87	19.78	21.69	23.61	25.52	27.43	29.34	31.25	33.16	35.07	23.5
37.1-39.0	43.1- 45.3	2.61	4.49	6.40	8.32	10.24	12.16	14.08	16.00	17.92	19.84	21.76	23.68	25.60	27.52	29.44	31.35	33.27	35.19	24.3
39.1-41.0	45.4- 47.6	2.60	4.48	6.40	8.32	10.25	12.18	14.11	16.04	17.97	19.90	21.82	23.75	25.67	27.60	29.52	31.45	33.37	35.29	25.1
41.1-43.0	47.7- 49.8	2.58	4.47	6.40	8.33	10.27	12.20	14.14	16.07	18.01	19.94	21.87	23.80	25.74	27.67	29.60	31.53	33.46	35.39	25.8
43.1-45.0	50.0- 52.1	2.57	4.46	6.39	8.33	10.27	12.22	14.16	16.10	18.04	19.98	21.92	23.85	25.79	27.73	29.66	31.60	33.53	35.47	26.5
45.1-47.0	52.2- 54.4	2.56	4.45	6.38	8.33	10.28	12.23	14.17	16.12	18.06	20.01	21.95	23.89	25.84	27.78	29.72	31.66	33.60	35.54	27.1
47.1-49.0	54.5- 56.6	2.54	4.44	6.38	8.33	10.28	12.23	14.18	16.14	18.09	20.03	21.98	23.93	25.88	27.82	29.77	31.71	33.65	35.60	27.8
49.1-51.0	56.7- 58.9	2.53	4.43	6.37	8.32	10.28	12.24	14.19	16.15	18.10	20.06	22.01	23.96	25.91	27.86	29.81	31.76	33.70	35.65	28.4
51.1-53.0	59.0- 61.1	2.51	4.41	6.36	8.31	10.28	12.24	14.20	16.16	18.12	20.07	22.03	23.99	25.94	27.89	29.84	31.80	33.75	35.70	28.9
53.1-55.0	61.2- 63.3	2.50	4.40	6.34	8.30	10.27	12.24	14.20	16.17	18.13	20.09	22.05	24.01	25.96	27.92	29.88	31.83	33.79	35.74	29.5
55.1-57.0	63.4- 65.5	2.48	4.38	6.33	8.29	10.26	12.23	14.20	16.17	18.14	20.10	22.06	24.03	25.99	27.95	29.90	31.86	33.82	35.78	30.0
57.1-59.0	65.6- 67.7	2.47	4.36	6.31	8.28	10.26	12.23	14.20	16.17	18.14	20.11	22.08	24.04	26.00	27.97	29.93	31.89	33.85	35.81	30.5
59.1-61.0	67.8- 69.9	2.45	4.35	6.30	8.27	10.25	12.22	14.20	16.17	18.15	20.12	22.09	24.05	26.02	27.98	29.95	31.91	33.88	35.84	30.9
61.1-63.0	70.0- 72.0	2.44	4.33	6.28	8.26	10.24	12.22	14.19	16.17	18.15	20.12	22.09	24.06	26.03	28.00	29.97	31.93	33.90	35.86	31.4
63.1-65.0	72.1- 74.2	2.42	4.31	6.27	8.24	10.22	12.21	14.19	16.17	18.15	20.12	22.10	24.07	26.04	28.01	29.98	31.95	33.92	35.89	31.8
65.1-67.0	74.3- 76.3	2.41	4.29	6.25	8.23	10.21	12.20	14.18	16.16	18.15	20.12	22.10	24.08	26.05	28.02	29.99	31.97	33.94	35.90	32.2
67.1-69.0	76.4- 78.5	2.39	4.28	6.23	8.21	10.20	12.19	14.17	16.16	18.14	20.12	22.10	24.08	26.06	28.03	30.01	31.98	33.95	35.92	32.6
69.1-71.0	78.6- 80.6	2.37	4.26	6.21	8.19	10.18	12.17	14.16	16.15	18.14	20.12	22.10	24.08	26.06	28.04	30.01	31.99	33.96	35.93	32.9
71.1-73.0	80.7- 82.7	2.36	4.24	6.20	8.18	10.17	12.16	14.15	16.14	18.13	20.12	22.10	24.08	26.06	28.04	30.02	32.00	33.97	35.95	33.3
73.1-75.0	82.8- 84.8	2.34	4.22	6.18	8.16	10.15	12.15	14.14	16.13	18.12	20.11	22.10	24.08	26.06	28.05	30.02	32.00	33.98	35.96	33.6
75.1-77.0	84.9- 86.8	2.33	4.20	6.16	8.14	10.14	12.13	14.13	16.12	18.12	20.11	22.09	24.08	26.06	28.05	30.03	32.01	33.99	35.97	33.9
77.1-79.0	86.9- 88.9	2.31	4.18	6.14	8.12	10.12	12.12	14.12	16.11	18.11	20.10	22.09	24.08	26.06	28.05	30.03	32.01	33.99	35.97	34.2
79.1-81.0	89.0- 90.9	2.30	4.16	6.12	8.10	10.10	12.10	14.10	16.10	18.10	20.09	22.08	24.07	26.06	28.05	30.03	32.01	34.00	35.98	34.5

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

Table 30. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: WHITE SPRUCE
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	6.9- 9.2	0.22	0.39	0.54	0.69	0.84	0.99	1.14	1.29	1.43	1.58	1.73	1.87	2.02	2.17	2.31	2.46	2.61	2.75	7.3
9.1-11.0	9.4- 11.7	1.13	1.97	2.83	3.70	4.58	5.46	6.34	7.22	8.10	8.99	9.87	10.76	11.64	12.53	13.41	14.30	15.18	16.07	8.8
11.1-13.0	11.9- 14.2	1.59	2.75	3.92	5.11	6.30	7.50	8.69	9.89	11.09	12.29	13.49	14.69	15.90	17.10	18.30	19.50	20.70	21.91	10.2
13.1-15.0	14.3- 16.7	1.86	3.19	4.54	5.90	7.27	8.64	10.01	11.38	12.76	14.13	15.51	16.89	18.26	19.64	21.02	22.39	23.77	25.15	11.6
15.1-17.0	16.8- 19.1	2.02	3.46	4.93	6.41	7.89	9.37	10.86	12.35	13.84	15.33	16.82	18.31	19.80	21.30	22.79	24.28	25.77	27.27	13.0
17.1-19.0	19.2- 21.6	2.14	3.66	5.20	6.76	8.32	9.89	11.46	13.03	14.60	16.17	17.75	19.32	20.89	22.47	24.04	25.61	27.19	28.76	14.2
19.1-21.0	21.7- 24.0	2.21	3.79	5.40	7.02	8.64	10.27	11.90	13.53	15.16	16.80	18.43	20.07	21.70	23.33	24.97	26.60	28.24	29.88	15.5
21.1-23.0	24.1- 26.4	2.27	3.89	5.54	7.21	8.88	10.56	12.24	13.91	15.59	17.28	18.96	20.64	22.32	24.00	25.69	27.37	29.05	30.73	16.6
23.1-25.0	26.5- 28.8	2.31	3.96	5.66	7.36	9.07	10.78	12.50	14.21	15.93	17.65	19.37	21.09	22.81	24.53	26.25	27.97	29.69	31.41	17.8
25.1-27.0	28.9- 31.2	2.33	4.02	5.74	7.47	9.22	10.96	12.71	14.45	16.20	17.95	19.70	21.45	23.20	24.95	26.71	28.46	30.21	31.96	18.8
27.1-29.0	31.3- 33.6	2.35	4.06	5.81	7.57	9.33	11.10	12.88	14.65	16.42	18.20	19.97	21.75	23.53	25.30	27.08	28.86	30.63	32.41	19.8
29.1-31.0	33.7- 35.9	2.36	4.09	5.86	7.64	9.43	11.22	13.01	14.81	16.61	18.40	20.20	22.00	23.79	25.59	27.39	29.19	30.98	32.78	20.8
31.1-33.0	36.0- 38.3	2.37	4.11	5.90	7.70	9.50	11.32	13.13	14.94	16.76	18.57	20.39	22.20	24.02	25.83	27.65	29.47	31.28	33.10	21.8
33.1-35.0	38.4- 40.6	2.37	4.13	5.93	7.74	9.57	11.39	13.22	15.05	16.88	18.71	20.54	22.38	24.21	26.04	27.87	29.70	31.53	33.36	22.6
35.1-37.0	40.7- 42.9	2.37	4.14	5.95	7.78	9.62	11.46	13.30	15.14	16.99	18.83	20.68	22.52	24.37	26.21	28.06	29.90	31.75	33.59	23.5
37.1-39.0	43.1- 45.3	2.37	4.15	5.97	7.81	9.66	11.51	13.37	15.22	17.08	18.94	20.79	22.65	24.51	26.36	28.22	30.08	31.94	33.79	24.3
39.1-41.0	45.4- 47.6	2.37	4.15	5.98	7.83	9.69	11.56	13.42	15.29	17.16	19.02	20.89	22.76	24.63	26.49	28.36	30.23	32.10	33.96	25.1
41.1-43.0	47.7- 49.8	2.36	4.15	5.99	7.85	9.72	11.59	13.47	15.35	17.22	19.10	20.98	22.85	24.73	26.61	28.48	30.36	32.24	34.11	25.8
43.1-45.0	50.0- 52.1	2.35	4.14	5.99	7.86	9.74	11.62	13.51	15.39	17.28	19.16	21.05	22.94	24.82	26.71	28.59	30.48	32.36	34.25	26.5
45.1-47.0	52.2- 54.4	2.34	4.14	5.99	7.87	9.76	11.65	13.54	15.43	17.33	19.22	21.11	23.01	24.90	26.79	28.68	30.58	32.47	34.36	27.1
47.1-49.0	54.5- 56.6	2.33	4.13	5.99	7.88	9.77	11.67	13.57	15.47	17.37	19.27	21.17	23.07	24.97	26.87	28.77	30.67	32.56	34.46	27.8
49.1-51.0	56.7- 58.9	2.32	4.12	5.99	7.88	9.78	11.68	13.59	15.49	17.40	19.31	21.21	23.12	25.03	26.93	28.84	30.74	32.65	34.55	28.4
51.1-53.0	59.0- 61.1	2.31	4.11	5.98	7.88	9.78	11.69	13.60	15.52	17.43	19.34	21.26	23.17	25.08	26.99	28.90	30.81	32.72	34.63	28.9
53.1-55.0	61.2- 63.3	2.30	4.10	5.97	7.87	9.78	11.70	13.62	15.54	17.45	19.37	21.29	23.21	25.13	27.04	28.96	30.87	32.79	34.71	29.5
55.1-57.0	63.4- 65.5	2.29	4.09	5.97	7.87	9.78	11.70	13.63	15.55	17.47	19.40	21.32	23.24	25.17	27.09	29.01	30.93	32.85	34.77	30.0
57.1-59.0	65.6- 67.7	2.27	4.08	5.95	7.86	9.78	11.71	13.63	15.56	17.49	19.42	21.35	23.27	25.20	27.13	29.05	30.98	32.90	34.83	30.5
59.1-61.0	67.8- 69.9	2.26	4.06	5.94	7.85	9.78	11.71	13.64	15.57	17.50	19.44	21.37	23.30	25.23	27.16	29.09	31.02	32.95	34.88	30.9
61.1-63.0	70.0- 72.0	2.25	4.05	5.93	7.84	9.77	11.70	13.64	15.58	17.51	19.45	21.39	23.32	25.26	27.19	29.12	31.06	32.99	34.92	31.4
63.1-65.0	72.1- 74.2	2.23	4.03	5.92	7.83	9.76	11.70	13.64	15.58	17.52	19.46	21.40	23.34	25.28	27.22	29.15	31.09	33.03	34.96	31.8
65.1-67.0	74.3- 76.3	2.22	4.02	5.90	7.82	9.75	11.69	13.64	15.58	17.53	19.47	21.41	23.36	25.30	27.24	29.18	31.12	33.06	35.00	32.2
67.1-69.0	76.4- 78.5	2.21	4.00	5.89	7.81	9.74	11.69	13.63	15.58	17.53	19.48	21.42	23.37	25.31	27.26	29.20	31.14	33.09	35.03	32.6
69.1-71.0	78.6- 80.6	2.19	3.99	5.87	7.79	9.73	11.68	13.63	15.58	17.53	19.48	21.43	23.38	25.33	27.27	29.22	31.17	33.11	35.06	32.9
71.1-73.0	80.7- 82.7	2.18	3.97	5.85	7.78	9.72	11.67	13.62	15.58	17.53	19.48	21.44	23.39	25.34	27.29	29.24	31.19	33.13	35.08	33.3
73.1-75.0	82.8- 84.8	2.17	3.95	5.84	7.76	9.71	11.66	13.61	15.57	17.53	19.48	21.44	23.39	25.35	27.30	29.25	31.20	33.15	35.10	33.6
75.1-77.0	84.9- 86.8	2.15	3.94	5.82	7.75	9.69	11.65	13.60	15.56	17.52	19.48	21.44	23.40	25.35	27.31	29.26	31.22	33.17	35.12	33.9
77.1-79.0	86.9- 88.9	2.14	3.92	5.80	7.73	9.68	11.63	13.59	15.55	17.52	19.48	21.44	23.40	25.36	27.31	29.27	31.23	33.18	35.14	34.2
79.1-81.0	89.0- 90.9	2.13	3.90	5.78	7.71	9.66	11.62	13.58	15.55	17.51	19.47	21.44	23.40	25.36	27.32	29.28	31.24	33.19	35.15	34.5

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

Table 31. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: WHITE SPRUCE
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	11.9- 14.2	0.51	0.88	1.25	1.61	1.97	2.32	2.67	3.03	3.38	3.73	4.08	4.43	4.78	5.13	5.47	5.82	6.17	6.52	10.2
13.1-15.0	14.3- 16.7	1.02	1.81	2.62	3.45	4.29	5.14	5.99	6.84	7.69	8.54	9.40	10.25	11.11	11.96	12.82	13.68	14.54	15.39	11.6
15.1-17.0	16.8- 19.1	1.34	2.36	3.43	4.51	5.60	6.69	7.79	8.90	10.00	11.11	12.22	13.32	14.43	15.54	16.65	17.76	18.87	19.98	13.0
17.1-19.0	19.2- 21.6	1.54	2.72	3.94	5.18	6.43	7.68	8.94	10.20	11.46	12.73	13.99	15.26	16.52	17.79	19.06	20.32	21.59	22.86	14.2
19.1-21.0	21.7- 24.0	1.69	2.98	4.30	5.65	7.01	8.37	9.74	11.11	12.48	13.86	15.23	16.61	17.99	19.36	20.74	22.12	23.50	24.88	15.5
21.1-23.0	24.1- 26.4	1.79	3.16	4.57	6.00	7.44	8.88	10.33	11.79	13.24	14.70	16.15	17.61	19.07	20.53	21.99	23.45	24.91	26.37	16.6
23.1-25.0	26.5- 28.8	1.87	3.29	4.76	6.26	7.76	9.27	10.79	12.30	13.82	15.34	16.87	18.39	19.91	21.44	22.96	24.49	26.01	27.54	17.8
25.1-27.0	28.9- 31.2	1.93	3.40	4.92	6.46	8.02	9.58	11.14	12.71	14.28	15.86	17.43	19.00	20.58	22.15	23.73	25.31	26.88	28.46	18.8
27.1-29.0	31.3- 33.6	1.97	3.48	5.04	6.62	8.22	9.82	11.43	13.04	14.66	16.27	17.89	19.50	21.12	22.74	24.36	25.98	27.59	29.21	19.8
29.1-31.0	33.7- 35.9	2.00	3.54	5.14	6.75	8.39	10.02	11.67	13.31	14.96	16.61	18.26	19.92	21.57	23.22	24.87	26.53	28.18	29.84	20.8
31.1-33.0	36.0- 38.3	2.03	3.59	5.21	6.86	8.52	10.19	11.86	13.54	15.22	16.90	18.58	20.26	21.94	23.63	25.31	26.99	28.68	30.36	21.8
33.1-35.0	38.4- 40.6	2.04	3.63	5.27	6.95	8.63	10.33	12.02	13.73	15.43	17.14	18.84	20.55	22.26	23.97	25.68	27.39	29.10	30.81	22.6
35.1-37.0	40.7- 42.9	2.06	3.66	5.32	7.02	8.73	10.44	12.16	13.89	15.61	17.34	19.07	20.80	22.53	24.26	25.99	27.72	29.45	31.19	23.5
37.1-39.0	43.1- 45.3	2.06	3.68	5.36	7.08	8.80	10.54	12.28	14.02	15.77	17.51	19.26	21.01	22.76	24.51	26.26	28.01	29.76	31.51	24.3
39.1-41.0	45.4- 47.6	2.07	3.70	5.40	7.12	8.87	10.62	12.38	14.14	15.90	17.66	19.43	21.19	22.96	24.73	26.50	28.26	30.03	31.80	25.1
41.1-43.0	47.7- 49.8	2.07	3.71	5.42	7.16	8.92	10.69	12.46	14.24	16.01	17.79	19.57	21.35	23.14	24.92	26.70	28.48	30.27	32.05	25.8
43.1-45.0	50.0- 52.1	2.07	3.72	5.44	7.19	8.97	10.75	12.53	14.32	16.11	17.91	19.70	21.49	23.29	25.09	26.88	28.68	30.47	32.27	26.5
45.1-47.0	52.2- 54.4	2.07	3.72	5.45	7.22	9.00	10.79	12.59	14.39	16.20	18.00	19.81	21.62	23.42	25.23	27.04	28.85	30.66	32.47	27.1
47.1-49.0	54.5- 56.6	2.07	3.73	5.47	7.24	9.03	10.84	12.64	14.46	16.27	18.09	19.91	21.72	23.54	25.36	27.18	29.00	30.82	32.64	27.8
49.1-51.0	56.7- 58.9	2.06	3.73	5.47	7.26	9.06	10.87	12.69	14.51	16.34	18.16	19.99	21.82	23.65	25.48	27.30	29.13	30.96	32.79	28.4
51.1-53.0	59.0- 61.1	2.05	3.72	5.48	7.27	9.08	10.90	12.73	14.56	16.39	18.23	20.06	21.90	23.74	25.58	27.41	29.25	31.09	32.93	28.9
53.1-55.0	61.2- 63.3	2.05	3.72	5.48	7.28	9.09	10.92	12.76	14.60	16.44	18.28	20.13	21.97	23.82	25.67	27.51	29.36	31.21	33.05	29.5
55.1-57.0	63.4- 65.5	2.04	3.71	5.48	7.28	9.11	10.94	12.79	14.63	16.48	18.33	20.19	22.04	23.89	25.75	27.60	29.45	31.31	33.16	30.0
57.1-59.0	65.6- 67.7	2.03	3.71	5.47	7.28	9.11	10.96	12.81	14.66	16.52	18.38	20.24	22.10	23.96	25.82	27.68	29.54	31.40	33.26	30.5
59.1-61.0	67.8- 69.9	2.02	3.70	5.47	7.28	9.12	10.97	12.83	14.69	16.55	18.41	20.28	22.15	24.01	25.88	27.75	29.62	31.48	33.35	30.9
61.1-63.0	70.0- 72.0	2.01	3.69	5.46	7.28	9.12	10.98	12.84	14.71	16.58	18.45	20.32	22.19	24.06	25.94	27.81	29.68	31.56	33.43	31.4
63.1-65.0	72.1- 74.2	2.01	3.68	5.45	7.28	9.12	10.98	12.85	14.72	16.60	18.47	20.35	22.23	24.11	25.99	27.87	29.74	31.62	33.50	31.8
65.1-67.0	74.3- 76.3	2.00	3.67	5.44	7.27	9.12	10.99	12.86	14.74	16.62	18.50	20.38	22.26	24.15	26.03	27.91	29.80	31.68	33.57	32.2
67.1-69.0	76.4- 78.5	1.99	3.66	5.43	7.26	9.12	10.99	12.86	14.75	16.63	18.52	20.40	22.29	24.18	26.07	27.96	29.85	31.74	33.63	32.6
69.1-71.0	78.6- 80.6	1.98	3.64	5.42	7.25	9.11	10.99	12.87	14.75	16.64	18.53	20.43	22.32	24.21	26.10	28.00	29.89	31.78	33.68	32.9
71.1-73.0	80.7- 82.7	1.97	3.63	5.41	7.24	9.11	10.98	12.87	14.76	16.65	18.55	20.44	22.34	24.24	26.14	28.03	29.93	31.83	33.72	33.3
73.1-75.0	82.8- 84.8	1.95	3.62	5.40	7.23	9.10	10.98	12.87	14.76	16.66	18.56	20.46	22.36	24.26	26.16	28.06	29.96	31.87	33.77	33.6
75.1-77.0	84.9- 86.8	1.94	3.60	5.38	7.22	9.09	10.97	12.86	14.76	16.66	18.57	20.47	22.37	24.28	26.18	28.09	29.99	31.90	33.80	33.9
77.1-79.0	86.9- 88.9	1.93	3.59	5.37	7.21	9.08	10.96	12.86	14.76	16.66	18.57	20.48	22.39	24.30	26.20	28.11	30.02	31.93	33.84	34.2
79.1-81.0	89.0- 90.9	1.92	3.58	5.35	7.19	9.06	10.95	12.85	14.76	16.66	18.57	20.48	22.40	24.31	26.22	28.13	30.05	31.96	33.87	34.5

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

Table 32. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: WHITE SPRUCE
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	11.9- 14.2	0.18	0.29	0.39	0.49	0.58	0.67	0.76	0.86	0.95	1.04	1.14	1.23	1.32	1.42	1.51	1.61	1.70	1.79	10.2
13.1-15.0	14.3- 16.7	0.72	1.28	1.84	2.41	2.99	3.57	4.15	4.74	5.32	5.91	6.49	7.08	7.66	8.25	8.84	9.43	10.02	10.60	11.6
15.1-17.0	16.8- 19.1	1.10	1.96	2.85	3.76	4.68	5.61	6.54	7.47	8.41	9.35	10.28	11.22	12.17	13.11	14.05	14.99	15.94	16.88	13.0
17.1-19.0	19.2- 21.6	1.34	2.39	3.48	4.59	5.71	6.84	7.97	9.10	10.24	11.38	12.52	13.66	14.80	15.95	17.09	18.23	19.38	20.52	14.2
19.1-21.0	21.7- 24.0	1.51	2.69	3.91	5.16	6.41	7.67	8.94	10.21	11.48	12.75	14.03	15.30	16.58	17.86	19.14	20.41	21.69	22.97	15.5
21.1-23.0	24.1- 26.4	1.64	2.91	4.22	5.56	6.92	8.28	9.64	11.01	12.38	13.75	15.12	16.50	17.87	19.25	20.62	22.00	23.38	24.75	16.6
23.1-25.0	26.5- 28.8	1.73	3.07	4.46	5.87	7.30	8.74	10.18	11.62	13.06	14.51	15.96	17.41	18.86	20.31	21.76	23.21	24.67	26.12	17.8
25.1-27.0	28.9- 31.2	1.80	3.19	4.64	6.11	7.60	9.09	10.59	12.10	13.60	15.11	16.62	18.13	19.64	21.15	22.66	24.17	25.68	27.20	18.8
27.1-29.0	31.3- 33.6	1.85	3.29	4.78	6.30	7.84	9.38	10.93	12.48	14.03	15.59	17.15	18.71	20.26	21.82	23.38	24.95	26.51	28.07	19.8
29.1-31.0	33.7- 35.9	1.89	3.36	4.90	6.46	8.03	9.61	11.20	12.79	14.39	15.99	17.58	19.18	20.78	22.38	23.98	25.58	27.19	28.79	20.8
31.1-33.0	36.0- 38.3	1.92	3.42	4.99	6.58	8.19	9.80	11.43	13.05	14.68	16.31	17.95	19.58	21.21	22.85	24.48	26.12	27.75	29.39	21.8
33.1-35.0	38.4- 40.6	1.94	3.47	5.06	6.68	8.32	9.96	11.62	13.27	14.93	16.59	18.25	19.91	21.58	23.24	24.91	26.57	28.24	29.90	22.6
35.1-37.0	40.7- 42.9	1.96	3.51	5.12	6.77	8.43	10.10	11.77	13.46	15.14	16.82	18.51	20.20	21.89	23.58	25.27	26.96	28.65	30.34	23.5
37.1-39.0	43.1- 45.3	1.97	3.53	5.17	6.83	8.52	10.21	11.91	13.61	15.32	17.02	18.73	20.44	22.15	23.87	25.58	27.29	29.00	30.72	24.3
39.1-41.0	45.4- 47.6	1.98	3.56	5.21	6.89	8.59	10.31	12.02	13.75	15.47	17.20	18.93	20.66	22.39	24.12	25.85	27.58	29.31	31.04	25.1
41.1-43.0	47.7- 49.8	1.98	3.57	5.24	6.94	8.66	10.39	12.12	13.86	15.60	17.35	19.09	20.84	22.59	24.33	26.08	27.83	29.58	31.33	25.8
43.1-45.0	50.0- 52.1	1.99	3.59	5.26	6.98	8.71	10.45	12.21	13.96	15.72	17.48	19.24	21.00	22.76	24.53	26.29	28.05	29.82	31.58	26.5
45.1-47.0	52.2- 54.4	1.99	3.59	5.28	7.01	8.76	10.51	12.28	14.05	15.82	17.59	19.36	21.14	22.92	24.69	26.47	28.25	30.03	31.81	27.1
47.1-49.0	54.5- 56.6	1.99	3.60	5.30	7.04	8.79	10.56	12.34	14.12	15.90	17.69	19.48	21.26	23.05	24.84	26.63	28.42	30.21	32.01	27.8
49.1-51.0	56.7- 58.9	1.98	3.60	5.31	7.06	8.82	10.60	12.39	14.18	15.98	17.78	19.57	21.37	23.17	24.97	26.78	28.58	30.38	32.18	28.4
51.1-53.0	59.0- 61.1	1.98	3.60	5.32	7.07	8.85	10.64	12.44	14.24	16.04	17.85	19.66	21.47	23.28	25.09	26.90	28.72	30.53	32.34	28.9
53.1-55.0	61.2- 63.3	1.97	3.60	5.32	7.08	8.87	10.67	12.48	14.29	16.10	17.92	19.74	21.56	23.38	25.20	27.02	28.84	30.66	32.48	29.5
55.1-57.0	63.4- 65.5	1.97	3.60	5.32	7.09	8.89	10.69	12.51	14.33	16.15	17.98	19.80	21.63	23.46	25.29	27.12	28.95	30.78	32.61	30.0
57.1-59.0	65.6- 67.7	1.96	3.59	5.32	7.10	8.90	10.71	12.54	14.36	16.20	18.03	19.86	21.70	23.53	25.37	27.21	29.05	30.88	32.72	30.5
59.1-61.0	67.8- 69.9	1.96	3.59	5.32	7.10	8.91	10.73	12.56	14.39	16.23	18.07	19.91	21.76	23.60	25.45	27.29	29.13	30.98	32.82	30.9
61.1-63.0	70.0- 72.0	1.95	3.58	5.32	7.10	8.92	10.74	12.58	14.42	16.27	18.11	19.96	21.81	23.66	25.51	27.36	29.21	31.07	32.92	31.4
63.1-65.0	72.1- 74.2	1.94	3.57	5.31	7.10	8.92	10.75	12.59	14.44	16.29	18.15	20.00	21.86	23.71	25.57	27.43	29.29	31.14	33.00	31.8
65.1-67.0	74.3- 76.3	1.93	3.56	5.30	7.10	8.92	10.76	12.61	14.46	16.32	18.17	20.04	21.90	23.76	25.62	27.49	29.35	31.21	33.08	32.2
67.1-69.0	76.4- 78.5	1.92	3.55	5.29	7.09	8.92	10.76	12.61	14.47	16.34	18.20	20.07	21.93	23.80	25.67	27.54	29.41	31.28	33.14	32.6
69.1-71.0	78.6- 80.6	1.91	3.54	5.29	7.09	8.92	10.76	12.62	14.48	16.35	18.22	20.09	21.96	23.84	25.71	27.58	29.46	31.33	33.21	32.9
71.1-73.0	80.7- 82.7	1.90	3.53	5.27	7.08	8.91	10.76	12.62	14.49	16.36	18.24	20.11	21.99	23.87	25.75	27.63	29.50	31.38	33.26	33.3
73.1-75.0	82.8- 84.8	1.89	3.52	5.26	7.07	8.91	10.76	12.63	14.50	16.37	18.25	20.13	22.01	23.90	25.78	27.66	29.55	31.43	33.31	33.6
75.1-77.0	84.9- 86.8	1.88	3.51	5.25	7.06	8.90	10.76	12.63	14.50	16.38	18.26	20.15	22.03	23.92	25.81	27.70	29.58	31.47	33.36	33.9
77.1-79.0	86.9- 88.9	1.87	3.49	5.24	7.05	8.89	10.75	12.62	14.50	16.39	18.27	20.16	22.05	23.94	25.83	27.72	29.61	31.51	33.40	34.2
79.1-81.0	89.0- 90.9	1.86	3.48	5.22	7.03	8.88	10.74	12.62	14.50	16.39	18.28	20.17	22.07	23.96	25.85	27.75	29.64	31.54	33.43	34.5

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

Table 33. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: WHITE SPRUCE
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- 16.7	0.18	0.29	0.38	0.46	0.54	0.62	0.70	0.78	0.86	0.95	1.03	1.11	1.19	1.28	1.36	1.44	1.53	1.61	11.6
15.1-17.0	16.8- 19.1	0.62	1.08	1.55	2.01	2.48	2.95	3.42	3.89	4.36	4.83	5.30	5.77	6.24	6.71	7.18	7.65	8.12	8.59	13.0
17.1-19.0	19.2- 21.6	0.94	1.69	2.46	3.26	4.07	4.88	5.70	6.53	7.35	8.18	9.01	9.84	10.68	11.51	12.34	13.18	14.01	14.85	14.2
19.1-21.0	21.7- 24.0	1.17	2.10	3.08	4.08	5.09	6.12	7.15	8.18	9.22	10.26	11.30	12.34	13.38	14.43	15.47	16.52	17.56	18.61	15.5
21.1-23.0	24.1- 26.4	1.33	2.39	3.51	4.65	5.81	6.97	8.14	9.32	10.50	11.68	12.86	14.04	15.23	16.41	17.60	18.79	19.97	21.16	16.6
23.1-25.0	26.5- 28.8	1.45	2.61	3.83	5.07	6.33	7.60	8.87	10.15	11.43	12.72	14.01	15.29	16.58	17.87	19.16	20.45	21.75	23.04	17.8
25.1-27.0	28.9- 31.2	1.54	2.78	4.07	5.39	6.73	8.08	9.44	10.79	12.16	13.52	14.89	16.26	17.63	19.00	20.37	21.74	23.11	24.48	18.8
27.1-29.0	31.3- 33.6	1.61	2.91	4.26	5.65	7.05	8.46	9.88	11.30	12.73	14.16	15.59	17.02	18.46	19.89	21.33	22.76	24.20	25.64	19.8
29.1-31.0	33.7- 35.9	1.67	3.01	4.41	5.85	7.30	8.77	10.24	11.72	13.19	14.68	16.16	17.65	19.13	20.62	22.11	23.60	25.09	26.57	20.8
31.1-33.0	36.0- 38.3	1.71	3.09	4.53	6.01	7.51	9.02	10.53	12.05	13.58	15.10	16.63	18.16	19.69	21.22	22.76	24.29	25.82	27.36	21.8
33.1-35.0	38.4- 40.6	1.75	3.15	4.63	6.15	7.68	9.23	10.78	12.34	13.90	15.46	17.03	18.59	20.16	21.73	23.30	24.87	26.44	28.01	22.6
35.1-37.0	40.7- 42.9	1.77	3.21	4.72	6.26	7.83	9.40	10.99	12.58	14.17	15.76	17.36	18.96	20.56	22.16	23.76	25.37	26.97	28.57	23.5
37.1-39.0	43.1- 45.3	1.79	3.25	4.78	6.35	7.95	9.55	11.16	12.78	14.40	16.02	17.65	19.28	20.90	22.53	24.16	25.79	27.43	29.06	24.3
39.1-41.0	45.4- 47.6	1.81	3.28	4.84	6.43	8.05	9.67	11.31	12.95	14.60	16.25	17.90	19.55	21.20	22.85	24.51	26.16	27.82	29.48	25.1
41.1-43.0	47.7- 49.8	1.82	3.31	4.88	6.50	8.13	9.78	11.44	13.10	14.77	16.44	18.11	19.78	21.46	23.13	24.81	26.49	28.16	29.84	25.8
43.1-45.0	50.0- 52.1	1.83	3.33	4.92	6.55	8.21	9.87	11.55	13.23	14.92	16.61	18.30	19.99	21.68	23.38	25.07	26.77	28.47	30.17	26.5
45.1-47.0	52.2- 54.4	1.83	3.35	4.95	6.60	8.27	9.95	11.65	13.34	15.05	16.75	18.46	20.17	21.88	23.60	25.31	27.02	28.74	30.45	27.1
47.1-49.0	54.5- 56.6	1.84	3.36	4.97	6.64	8.32	10.02	11.73	13.44	15.16	16.88	18.61	20.33	22.06	23.79	25.51	27.24	28.97	30.70	27.8
49.1-51.0	56.7- 58.9	1.84	3.37	4.99	6.67	8.36	10.08	11.80	13.53	15.26	17.00	18.73	20.47	22.21	23.96	25.70	27.44	29.18	30.93	28.4
51.1-53.0	59.0- 61.1	1.84	3.38	5.01	6.69	8.40	10.13	11.86	13.60	15.35	17.10	18.85	20.60	22.35	24.11	25.86	27.62	29.37	31.13	28.9
53.1-55.0	61.2- 63.3	1.84	3.38	5.02	6.71	8.43	10.17	11.92	13.67	15.42	17.18	18.95	20.71	22.47	24.24	26.01	27.77	29.54	31.31	29.5
55.1-57.0	63.4- 65.5	1.84	3.38	5.03	6.73	8.46	10.21	11.96	13.72	15.49	17.26	19.03	20.81	22.58	24.36	26.14	27.92	29.70	31.47	30.0
57.1-59.0	65.6- 67.7	1.83	3.38	5.04	6.74	8.48	10.24	12.00	13.77	15.55	17.33	19.11	20.90	22.68	24.47	26.26	28.04	29.83	31.62	30.5
59.1-61.0	67.8- 69.9	1.83	3.38	5.04	6.75	8.50	10.26	12.04	13.82	15.60	17.39	19.18	20.98	22.77	24.57	26.36	28.16	29.96	31.75	30.9
61.1-63.0	70.0- 72.0	1.82	3.37	5.04	6.76	8.51	10.28	12.06	13.85	15.65	17.44	19.24	21.05	22.85	24.65	26.46	28.26	30.07	31.87	31.4
63.1-65.0	72.1- 74.2	1.82	3.37	5.04	6.76	8.52	10.30	12.09	13.88	15.69	17.49	19.30	21.11	22.92	24.73	26.54	28.35	30.17	31.98	31.8
65.1-67.0	74.3- 76.3	1.81	3.36	5.04	6.77	8.53	10.31	12.11	13.91	15.72	17.53	19.35	21.16	22.98	24.80	26.62	28.44	30.26	32.08	32.2
67.1-69.0	76.4- 78.5	1.80	3.36	5.03	6.77	8.54	10.32	12.13	13.94	15.75	17.57	19.39	21.21	23.04	24.86	26.69	28.51	30.34	32.17	32.6
69.1-71.0	78.6- 80.6	1.80	3.35	5.02	6.76	8.54	10.33	12.14	13.95	15.77	17.60	19.43	21.26	23.09	24.92	26.75	28.58	30.42	32.25	32.9
71.1-73.0	80.7- 82.7	1.79	3.34	5.02	6.76	8.54	10.34	12.15	13.97	15.80	17.63	19.46	21.29	23.13	24.97	26.81	28.64	30.48	32.32	33.3
73.1-75.0	82.8- 84.8	1.78	3.33	5.01	6.75	8.54	10.34	12.16	13.98	15.81	17.65	19.49	21.33	23.17	25.01	26.86	28.70	30.55	32.39	33.6
75.1-77.0	84.9- 86.8	1.77	3.32	5.00	6.75	8.53	10.34	12.16	13.99	15.83	17.67	19.51	21.36	23.20	25.05	26.90	28.75	30.60	32.45	33.9
77.1-79.0	86.9- 88.9	1.77	3.31	4.99	6.74	8.53	10.34	12.16	14.00	15.84	17.69	19.53	21.38	23.24	25.09	26.94	28.80	30.65	32.50	34.2
79.1-81.0	89.0- 90.9	1.76	3.30	4.98	6.73	8.52	10.34	12.17	14.00	15.85	17.70	19.55	21.41	23.26	25.12	26.98	28.84	30.69	32.55	34.5

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

Table 34. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: WHITE SPRUCE
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	16.8- 19.1	0.19	0.29	0.37	0.45	0.52	0.59	0.67	0.74	0.81	0.89	0.96	1.03	1.11	1.18	1.26	1.34	1.41	1.49	13.0
17.1-19.0	19.2- 21.6	0.54	0.94	1.33	1.72	2.10	2.48	2.86	3.24	3.61	3.99	4.36	4.74	5.11	5.48	5.85	6.23	6.60	6.97	14.2
19.1-21.0	21.7- 24.0	0.82	1.47	2.15	2.85	3.56	4.27	4.99	5.71	6.44	7.17	7.90	8.63	9.36	10.10	10.83	11.57	12.30	13.04	15.5
21.1-23.0	24.1- 26.4	1.03	1.86	2.74	3.64	4.56	5.48	6.42	7.36	8.30	9.25	10.20	11.15	12.10	13.05	14.01	14.96	15.92	16.87	16.6
23.1-25.0	26.5- 28.8	1.18	2.14	3.16	4.21	5.27	6.34	7.43	8.51	9.61	10.70	11.80	12.90	14.00	15.10	16.20	17.30	18.40	19.51	17.8
25.1-27.0	28.9- 31.2	1.30	2.36	3.48	4.63	5.80	6.99	8.18	9.37	10.57	11.78	12.98	14.19	15.40	16.61	17.82	19.03	20.25	21.46	18.8
27.1-29.0	31.3- 33.6	1.39	2.52	3.73	4.96	6.22	7.48	8.76	10.04	11.32	12.61	13.90	15.20	16.49	17.78	19.08	20.38	21.67	22.97	19.8
29.1-31.0	33.7- 35.9	1.46	2.66	3.92	5.22	6.54	7.88	9.22	10.57	11.92	13.28	14.64	16.00	17.36	18.72	20.09	21.45	22.82	24.18	20.8
31.1-33.0	36.0- 38.3	1.52	2.76	4.08	5.43	6.81	8.20	9.60	11.00	12.41	13.83	15.24	16.66	18.07	19.49	20.91	22.33	23.76	25.18	21.8
33.1-35.0	38.4- 40.6	1.56	2.85	4.21	5.61	7.03	8.47	9.91	11.36	12.82	14.28	15.74	17.20	18.67	20.13	21.60	23.07	24.54	26.01	22.6
35.1-37.0	40.7- 42.9	1.60	2.91	4.31	5.75	7.21	8.69	10.17	11.67	13.16	14.66	16.16	17.67	19.17	20.68	22.18	23.69	25.20	26.71	23.5
37.1-39.0	43.1- 45.3	1.63	2.97	4.40	5.87	7.37	8.88	10.40	11.92	13.45	14.99	16.52	18.06	19.60	21.14	22.68	24.23	25.77	27.31	24.3
39.1-41.0	45.4- 47.6	1.65	3.02	4.47	5.97	7.50	9.04	10.58	12.14	13.70	15.27	16.83	18.40	19.97	21.54	23.11	24.69	26.26	27.84	25.1
41.1-43.0	47.7- 49.8	1.67	3.06	4.53	6.06	7.61	9.17	10.75	12.33	13.92	15.51	17.10	18.69	20.29	21.89	23.49	25.09	26.69	28.29	25.8
43.1-45.0	50.0- 52.1	1.68	3.09	4.58	6.13	7.70	9.29	10.89	12.49	14.10	15.72	17.33	18.95	20.57	22.19	23.82	25.44	27.07	28.69	26.5
45.1-47.0	52.2- 54.4	1.69	3.11	4.63	6.19	7.78	9.39	11.01	12.63	14.27	15.90	17.54	19.18	20.82	22.46	24.11	25.75	27.40	29.04	27.1
47.1-49.0	54.5- 56.6	1.70	3.13	4.66	6.24	7.85	9.48	11.11	12.76	14.41	16.06	17.72	19.38	21.04	22.70	24.36	26.03	27.69	29.36	27.8
49.1-51.0	56.7- 58.9	1.71	3.15	4.69	6.29	7.91	9.55	11.21	12.87	14.53	16.20	17.88	19.55	21.23	22.91	24.59	26.27	27.95	29.63	28.4
51.1-53.0	59.0- 61.1	1.71	3.16	4.71	6.32	7.96	9.62	11.29	12.96	14.64	16.33	18.02	19.71	21.40	23.10	24.79	26.49	28.19	29.88	28.9
53.1-55.0	61.2- 63.3	1.71	3.17	4.73	6.35	8.00	9.67	11.36	13.05	14.74	16.44	18.14	19.85	21.56	23.27	24.97	26.69	28.40	30.11	29.5
55.1-57.0	63.4- 65.5	1.71	3.18	4.75	6.38	8.04	9.72	11.42	13.12	14.83	16.54	18.26	19.97	21.69	23.42	25.14	26.86	28.59	30.31	30.0
57.1-59.0	65.6- 67.7	1.71	3.18	4.76	6.40	8.07	9.76	11.47	13.18	14.90	16.63	18.36	20.09	21.82	23.55	25.28	27.02	28.76	30.49	30.5
59.1-61.0	67.8- 69.9	1.71	3.18	4.77	6.42	8.10	9.80	11.52	13.24	14.97	16.71	18.44	20.18	21.93	23.67	25.42	27.16	28.91	30.66	30.9
61.1-63.0	70.0- 72.0	1.71	3.18	4.78	6.43	8.12	9.83	11.56	13.29	15.03	16.78	18.52	20.27	22.03	23.78	25.54	27.29	29.05	30.81	31.4
63.1-65.0	72.1- 74.2	1.71	3.18	4.78	6.44	8.14	9.86	11.59	13.33	15.08	16.84	18.59	20.35	22.12	23.88	25.64	27.41	29.17	30.94	31.8
65.1-67.0	74.3- 76.3	1.70	3.18	4.78	6.45	8.15	9.88	11.62	13.37	15.13	16.89	18.66	20.42	22.20	23.97	25.74	27.51	29.29	31.06	32.2
67.1-69.0	76.4- 78.5	1.70	3.18	4.78	6.45	8.16	9.90	11.65	13.40	15.17	16.94	18.71	20.49	22.27	24.05	25.83	27.61	29.39	31.18	32.6
69.1-71.0	78.6- 80.6	1.69	3.17	4.78	6.46	8.17	9.91	11.67	13.43	15.20	16.98	18.76	20.55	22.33	24.12	25.91	27.70	29.49	31.28	32.9
71.1-73.0	80.7- 82.7	1.69	3.17	4.78	6.46	8.18	9.92	11.68	13.46	15.23	17.02	18.81	20.60	22.39	24.18	25.98	27.78	29.57	31.37	33.3
73.1-75.0	82.8- 84.8	1.68	3.16	4.77	6.46	8.18	9.93	11.70	13.48	15.26	17.05	18.85	20.64	22.44	24.24	26.04	27.85	29.65	31.45	33.6
75.1-77.0	84.9- 86.8	1.68	3.15	4.77	6.45	8.18	9.94	11.71	13.49	15.28	17.08	18.88	20.68	22.49	24.29	26.10	27.91	29.72	31.53	33.9
77.1-79.0	86.9- 88.9	1.67	3.15	4.76	6.45	8.18	9.94	11.72	13.51	15.30	17.10	18.91	20.72	22.53	24.34	26.15	27.97	29.79	31.60	34.2
79.1-81.0	89.0- 90.9	1.66	3.14	4.75	6.44	8.18	9.94	11.72	13.52	15.32	17.12	18.94	20.75	22.57	24.38	26.20	28.02	29.84	31.66	34.5

9.0 MERCHANTABLE LENGTH TABLES FOR NATURAL REGIONS

1 TO 6, 12, 13, 15, 16

Table 35. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	5.3- 7.5	0.75	1.28	1.82	2.36	2.89	3.43	3.96	4.50	5.04	5.57	6.11	6.65	7.18	7.72	8.26	8.79	9.33	9.87	6.5
7.1- 9.0	7.6- 9.8	1.71	2.79	3.86	4.94	6.01	7.09	8.17	9.24	10.32	11.40	12.47	13.55	14.63	15.70	16.78	17.86	18.93	20.01	8.5
9.1-11.0	9.9- 12.1	2.16	3.48	4.80	6.12	7.44	8.76	10.09	11.41	12.73	14.06	15.38	16.70	18.02	19.35	20.67	21.99	23.31	24.64	10.4
11.1-13.0	12.2- 14.4	2.42	3.88	5.35	6.82	8.29	9.75	11.22	12.69	14.16	15.63	17.10	18.56	20.03	21.50	22.97	24.44	25.91	27.38	12.3
13.1-15.0	14.5- 16.7	2.59	4.15	5.71	7.28	8.84	10.41	11.97	13.54	15.11	16.67	18.24	19.80	21.37	22.93	24.50	26.07	27.63	29.20	14.0
15.1-17.0	16.8- 19.0	2.71	4.34	5.97	7.61	9.24	10.88	12.51	14.15	15.78	17.42	19.05	20.69	22.32	23.96	25.59	27.23	28.86	30.50	15.6
17.1-19.0	19.1- 21.3	2.79	4.48	6.16	7.85	9.54	11.22	12.91	14.60	16.28	17.97	19.66	21.35	23.03	24.72	26.41	28.10	29.78	31.47	17.1
19.1-21.0	21.4- 23.6	2.86	4.58	6.31	8.04	9.76	11.49	13.22	14.95	16.67	18.40	20.13	21.86	23.58	25.31	27.04	28.77	30.50	32.22	18.4
21.1-23.0	23.7- 25.9	2.91	4.66	6.42	8.18	9.94	11.70	13.46	15.22	16.98	18.74	20.50	22.26	24.02	25.78	27.54	29.30	31.06	32.82	19.7
23.1-25.0	26.0- 28.2	2.95	4.73	6.51	8.30	10.09	11.87	13.66	15.44	17.23	19.02	20.80	22.59	24.38	26.16	27.95	29.73	31.52	33.31	20.8
25.1-27.0	28.3- 30.5	2.98	4.78	6.59	8.40	10.20	12.01	13.82	15.63	17.44	19.24	21.05	22.86	24.67	26.47	28.28	30.09	31.90	33.71	21.9
27.1-29.0	30.6- 32.7	3.00	4.83	6.65	8.48	10.30	12.13	13.96	15.78	17.61	19.43	21.26	23.09	24.91	26.74	28.56	30.39	32.21	34.04	22.8
29.1-31.0	32.8- 35.0	3.02	4.86	6.70	8.54	10.39	12.23	14.07	15.91	17.75	19.59	21.44	23.28	25.12	26.96	28.80	30.64	32.48	34.32	23.6
31.1-33.0	35.1- 37.3	3.04	4.89	6.75	8.60	10.46	12.31	14.17	16.02	17.88	19.73	21.59	23.44	25.30	27.15	29.00	30.86	32.71	34.57	24.4
33.1-35.0	37.4- 39.6	3.05	4.91	6.78	8.65	10.52	12.38	14.25	16.12	17.98	19.85	21.72	23.58	25.45	27.31	29.18	31.05	32.91	34.78	25.1
35.1-37.0	39.7- 41.8	3.06	4.93	6.81	8.69	10.57	12.45	14.32	16.20	18.08	19.95	21.83	23.70	25.58	27.46	29.33	31.21	33.08	34.96	25.7
37.1-39.0	42.0- 44.1	3.07	4.95	6.84	8.73	10.61	12.50	14.39	16.27	18.16	20.04	21.93	23.81	25.70	27.58	29.47	31.35	33.24	35.12	26.3
39.1-41.0	44.2- 46.4	3.07	4.97	6.86	8.76	10.65	12.55	14.44	16.34	18.23	20.12	22.01	23.91	25.80	27.69	29.59	31.48	33.37	35.26	26.8
41.1-43.0	46.5- 48.7	3.08	4.98	6.88	8.79	10.69	12.59	14.49	16.39	18.29	20.19	22.09	23.99	25.89	27.79	29.69	31.59	33.49	35.39	27.2
43.1-45.0	48.8- 50.9	3.08	4.99	6.90	8.81	10.72	12.63	14.53	16.44	18.35	20.25	22.16	24.07	25.97	27.88	29.79	31.69	33.60	35.50	27.6
45.1-47.0	51.0- 53.2	3.08	5.00	6.91	8.83	10.74	12.66	14.57	16.49	18.40	20.31	22.22	24.13	26.05	27.96	29.87	31.78	33.69	35.60	28.0
47.1-49.0	53.3- 55.4	3.08	5.00	6.93	8.85	10.77	12.69	14.61	16.53	18.44	20.36	22.28	24.20	26.11	28.03	29.95	31.86	33.78	35.69	28.3
49.1-51.0	55.6- 57.7	3.08	5.01	6.94	8.86	10.79	12.71	14.64	16.56	18.48	20.41	22.33	24.25	26.17	28.09	30.01	31.94	33.86	35.78	28.6
51.1-53.0	57.8- 60.0	3.08	5.01	6.95	8.88	10.81	12.74	14.67	16.59	18.52	20.45	22.37	24.30	26.23	28.15	30.08	32.00	33.93	35.85	28.9
53.1-55.0	60.1- 62.2	3.08	5.02	6.95	8.89	10.83	12.76	14.69	16.62	18.55	20.48	22.41	24.34	26.27	28.20	30.13	32.06	33.99	35.92	29.1
55.1-57.0	62.3- 64.5	3.07	5.02	6.96	8.90	10.84	12.78	14.71	16.65	18.58	20.52	22.45	24.39	26.32	28.25	30.18	32.12	34.05	35.98	29.3
57.1-59.0	64.6- 66.7	3.07	5.02	6.97	8.91	10.85	12.79	14.73	16.67	18.61	20.55	22.49	24.42	26.36	28.30	30.23	32.17	34.10	36.04	29.5
59.1-61.0	66.8- 69.0	3.07	5.02	6.97	8.92	10.87	12.81	14.75	16.69	18.64	20.58	22.52	24.46	26.40	28.34	30.28	32.21	34.15	36.09	29.7
61.1-63.0	69.1- 71.2	3.07	5.02	6.97	8.93	10.88	12.82	14.77	16.71	18.66	20.60	22.55	24.49	26.43	28.37	30.32	32.26	34.20	36.14	29.9
63.1-65.0	71.3- 73.5	3.06	5.02	6.98	8.93	10.88	12.84	14.78	16.73	18.68	20.63	22.57	24.52	26.46	28.41	30.35	32.30	34.24	36.19	30.0
65.1-67.0	73.6- 75.7	3.06	5.02	6.98	8.94	10.89	12.85	14.80	16.75	18.70	20.65	22.60	24.54	26.49	28.44	30.39	32.33	34.28	36.23	30.1
67.1-69.0	75.8- 77.9	3.05	5.02	6.98	8.94	10.90	12.86	14.81	16.76	18.72	20.67	22.62	24.57	26.52	28.47	30.42	32.37	34.32	36.27	30.2
69.1-71.0	78.1- 80.2	3.05	5.01	6.98	8.95	10.91	12.87	14.82	16.78	18.73	20.69	22.64	24.59	26.54	28.50	30.45	32.40	34.35	36.30	30.3
71.1-73.0	80.3- 82.4	3.04	5.01	6.98	8.95	10.91	12.87	14.83	16.79	18.75	20.70	22.66	24.61	26.57	28.52	30.48	32.43	34.38	36.33	30.4
73.1-75.0	82.5- 84.6	3.04	5.01	6.98	8.95	10.92	12.88	14.84	16.80	18.76	20.72	22.68	24.63	26.59	28.55	30.50	32.46	34.41	36.37	30.5
75.1-77.0	84.8- 86.9	3.03	5.01	6.98	8.95	10.92	12.89	14.85	16.81	18.77	20.73	22.69	24.65	26.61	28.57	30.52	32.48	34.44	36.39	30.6
77.1-79.0	87.0- 89.1	3.03	5.00	6.98	8.95	10.92	12.89	14.86	16.82	18.79	20.75	22.71	24.67	26.63	28.59	30.55	32.50	34.46	36.42	30.6
79.1-81.0	89.2- 91.3	3.02	5.00	6.98	8.96	10.93	12.90	14.87	16.83	18.80	20.76	22.72	24.68	26.65	28.61	30.57	32.53	34.49	36.45	30.7

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

Table 36. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	7.6- 9.8	0.47	0.84	1.21	1.57	1.94	2.31	2.68	3.05	3.41	3.78	4.15	4.52	4.88	5.25	5.62	5.99	6.35	6.72	8.5
9.1-11.0	9.9- 12.1	1.33	2.21	3.09	3.98	4.86	5.75	6.64	7.52	8.41	9.30	10.18	11.07	11.96	12.84	13.73	14.62	15.50	16.39	10.4
11.1-13.0	12.2- 14.4	1.79	2.93	4.07	5.22	6.37	7.51	8.66	9.81	10.96	12.11	13.26	14.40	15.55	16.70	17.85	19.00	20.15	21.30	12.3
13.1-15.0	14.5- 16.7	2.07	3.37	4.68	5.99	7.30	8.61	9.92	11.23	12.54	13.85	15.16	16.47	17.78	19.09	20.40	21.71	23.02	24.34	14.0
15.1-17.0	16.8- 19.0	2.26	3.68	5.09	6.51	7.94	9.36	10.78	12.20	13.62	15.05	16.47	17.89	19.32	20.74	22.16	23.59	25.01	26.43	15.6
17.1-19.0	19.1- 21.3	2.40	3.90	5.40	6.90	8.40	9.91	11.41	12.92	14.42	15.93	17.43	18.94	20.44	21.95	23.45	24.96	26.47	27.97	17.1
19.1-21.0	21.4- 23.6	2.50	4.06	5.63	7.19	8.76	10.33	11.89	13.46	15.03	16.60	18.17	19.74	21.31	22.88	24.44	26.01	27.58	29.15	18.4
21.1-23.0	23.7- 25.9	2.58	4.19	5.81	7.42	9.04	10.66	12.27	13.89	15.51	17.13	18.75	20.37	21.99	23.61	25.23	26.85	28.46	30.08	19.7
23.1-25.0	26.0- 28.2	2.65	4.29	5.95	7.61	9.26	10.92	12.58	14.24	15.90	17.56	19.22	20.88	22.54	24.20	25.86	27.52	29.18	30.84	20.8
25.1-27.0	28.3- 30.5	2.70	4.38	6.07	7.76	9.45	11.14	12.83	14.53	16.22	17.91	19.61	21.30	22.99	24.69	26.38	28.07	29.77	31.46	21.9
27.1-29.0	30.6- 32.7	2.74	4.45	6.16	7.88	9.60	11.32	13.04	14.76	16.49	18.21	19.93	21.65	23.37	25.09	26.82	28.54	30.26	31.98	22.8
29.1-31.0	32.8- 35.0	2.77	4.50	6.24	7.99	9.73	11.48	13.22	14.97	16.71	18.46	20.20	21.95	23.69	25.44	27.19	28.93	30.68	32.42	23.6
31.1-33.0	35.1- 37.3	2.79	4.55	6.31	8.08	9.84	11.61	13.37	15.14	16.90	18.67	20.44	22.20	23.97	25.74	27.50	29.27	31.03	32.80	24.4
33.1-35.0	37.4- 39.6	2.82	4.59	6.37	8.15	9.94	11.72	13.50	15.29	17.07	18.86	20.64	22.42	24.21	25.99	27.78	29.56	31.34	33.13	25.1
35.1-37.0	39.7- 41.8	2.83	4.62	6.42	8.22	10.02	11.82	13.62	15.42	17.22	19.02	20.82	22.62	24.42	26.21	28.01	29.81	31.61	33.41	25.7
37.1-39.0	42.0- 44.1	2.85	4.65	6.46	8.28	10.09	11.90	13.72	15.53	17.34	19.16	20.97	22.78	24.60	26.41	28.22	30.04	31.85	33.67	26.3
39.1-41.0	44.2- 46.4	2.86	4.68	6.50	8.33	10.15	11.98	13.80	15.63	17.45	19.28	21.11	22.93	24.76	26.58	28.41	30.24	32.06	33.89	26.8
41.1-43.0	46.5- 48.7	2.87	4.70	6.53	8.37	10.21	12.04	13.88	15.72	17.55	19.39	21.23	23.07	24.90	26.74	28.58	30.41	32.25	34.09	27.2
43.1-45.0	48.8- 50.9	2.88	4.72	6.56	8.41	10.25	12.10	13.95	15.80	17.64	19.49	21.34	23.18	25.03	26.88	28.72	30.57	32.42	34.26	27.6
45.1-47.0	51.0- 53.2	2.88	4.73	6.59	8.44	10.30	12.15	14.01	15.87	17.72	19.58	21.43	23.29	25.14	27.00	28.86	30.71	32.57	34.42	28.0
47.1-49.0	53.3- 55.4	2.89	4.74	6.61	8.47	10.34	12.20	14.07	15.93	17.79	19.66	21.52	23.38	25.25	27.11	28.98	30.84	32.70	34.57	28.3
49.1-51.0	55.6- 57.7	2.89	4.76	6.63	8.50	10.37	12.24	14.11	15.99	17.86	19.73	21.60	23.47	25.34	27.21	29.08	30.95	32.83	34.70	28.6
51.1-53.0	57.8- 60.0	2.89	4.76	6.64	8.52	10.40	12.28	14.16	16.04	17.92	19.79	21.67	23.55	25.43	27.31	29.18	31.06	32.94	34.81	28.9
53.1-55.0	60.1- 62.2	2.90	4.77	6.66	8.54	10.43	12.31	14.20	16.08	17.97	19.85	21.74	23.62	25.51	27.39	29.27	31.16	33.04	34.92	29.1
55.1-57.0	62.3- 64.5	2.90	4.78	6.67	8.56	10.45	12.34	14.24	16.13	18.02	19.91	21.80	23.69	25.58	27.47	29.35	31.24	33.13	35.02	29.3
57.1-59.0	64.6- 66.7	2.90	4.78	6.68	8.58	10.48	12.37	14.27	16.17	18.06	19.96	21.85	23.75	25.64	27.54	29.43	31.32	33.22	35.11	29.5
59.1-61.0	66.8- 69.0	2.89	4.79	6.69	8.59	10.50	12.40	14.30	16.20	18.10	20.00	21.90	23.80	25.70	27.60	29.50	31.40	33.30	35.20	29.7
61.1-63.0	69.1- 71.2	2.89	4.79	6.70	8.61	10.51	12.42	14.33	16.23	18.14	20.04	21.95	23.85	25.76	27.66	29.56	31.47	33.37	35.27	29.9
63.1-65.0	71.3- 73.5	2.89	4.79	6.71	8.62	10.53	12.44	14.35	16.26	18.17	20.08	21.99	23.90	25.81	27.71	29.62	31.53	33.44	35.35	30.0
65.1-67.0	73.6- 75.7	2.89	4.80	6.71	8.63	10.54	12.46	14.38	16.29	18.20	20.12	22.03	23.94	25.85	27.77	29.68	31.59	33.50	35.41	30.1
67.1-69.0	75.8- 77.9	2.89	4.80	6.72	8.64	10.56	12.48	14.40	16.31	18.23	20.15	22.07	23.98	25.90	27.81	29.73	31.64	33.56	35.47	30.2
69.1-71.0	78.1- 80.2	2.88	4.80	6.72	8.65	10.57	12.49	14.42	16.34	18.26	20.18	22.10	24.02	25.94	27.86	29.77	31.69	33.61	35.53	30.3
71.1-73.0	80.3- 82.4	2.88	4.80	6.72	8.65	10.58	12.51	14.43	16.36	18.28	20.21	22.13	24.05	25.97	27.90	29.82	31.74	33.66	35.58	30.4
73.1-75.0	82.5- 84.6	2.87	4.80	6.73	8.66	10.59	12.52	14.45	16.38	18.31	20.23	22.16	24.08	26.01	27.93	29.86	31.78	33.71	35.63	30.5
75.1-77.0	84.8- 86.9	2.87	4.79	6.73	8.66	10.60	12.53	14.46	16.40	18.33	20.26	22.18	24.11	26.04	27.97	29.90	31.83	33.75	35.68	30.6
77.1-79.0	87.0- 89.1	2.87	4.79	6.73	8.67	10.61	12.54	14.48	16.41	18.35	20.28	22.21	24.14	26.07	28.00	29.93	31.86	33.79	35.72	30.6
79.1-81.0	89.2- 91.3	2.86	4.79	6.73	8.67	10.61	12.55	14.49	16.43	18.36	20.30	22.23	24.17	26.10	28.03	29.97	31.90	33.83	35.76	30.7

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

Table 37. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	12.2- 14.4	0.63	1.10	1.57	2.04	2.51	2.99	3.46	3.93	4.40	4.87	5.34	5.81	6.28	6.76	7.23	7.70	8.17	8.64	12.3
13.1-15.0	14.5- 16.7	1.18	1.99	2.81	3.64	4.46	5.28	6.11	6.93	7.76	8.58	9.41	10.24	11.06	11.89	12.71	13.54	14.37	15.19	14.0
15.1-17.0	16.8- 19.0	1.53	2.56	3.59	4.63	5.66	6.70	7.74	8.78	9.82	10.86	11.90	12.95	13.99	15.03	16.07	17.11	18.15	19.19	15.6
17.1-19.0	19.1- 21.3	1.77	2.94	4.12	5.31	6.49	7.68	8.86	10.05	11.24	12.43	13.61	14.80	15.99	17.18	18.37	19.55	20.74	21.93	17.1
19.1-21.0	21.4- 23.6	1.95	3.23	4.52	5.81	7.10	8.39	9.69	10.98	12.28	13.58	14.87	16.17	17.46	18.76	20.06	21.35	22.65	23.95	18.4
21.1-23.0	23.7- 25.9	2.08	3.45	4.82	6.19	7.57	8.94	10.32	11.70	13.08	14.46	15.84	17.22	18.60	19.98	21.36	22.74	24.12	25.50	19.7
23.1-25.0	26.0- 28.2	2.19	3.62	5.05	6.49	7.94	9.38	10.83	12.27	13.72	15.16	16.61	18.06	19.50	20.95	22.40	23.84	25.29	26.74	20.8
25.1-27.0	28.3- 30.5	2.27	3.75	5.24	6.74	8.24	9.74	11.23	12.73	14.24	15.74	17.24	18.74	20.24	21.74	23.24	24.74	26.24	27.75	21.9
27.1-29.0	30.6- 32.7	2.34	3.87	5.40	6.94	8.49	10.03	11.57	13.12	14.67	16.21	17.76	19.30	20.85	22.40	23.94	25.49	27.04	28.58	22.8
29.1-31.0	32.8- 35.0	2.40	3.96	5.53	7.11	8.69	10.28	11.86	13.44	15.03	16.61	18.20	19.78	21.37	22.95	24.54	26.12	27.71	29.29	23.6
31.1-33.0	35.1- 37.3	2.44	4.04	5.64	7.26	8.87	10.49	12.10	13.72	15.34	16.95	18.57	20.19	21.81	23.43	25.04	26.66	28.28	29.90	24.4
33.1-35.0	37.4- 39.6	2.48	4.10	5.74	7.38	9.02	10.67	12.31	13.96	15.60	17.25	18.90	20.54	22.19	23.84	25.48	27.13	28.78	30.42	25.1
35.1-37.0	39.7- 41.8	2.51	4.16	5.82	7.49	9.15	10.82	12.49	14.16	15.83	17.51	19.18	20.85	22.52	24.19	25.86	27.54	29.21	30.88	25.7
37.1-39.0	42.0- 44.1	2.54	4.21	5.89	7.58	9.27	10.96	12.65	14.34	16.04	17.73	19.42	21.12	22.81	24.51	26.20	27.89	29.59	31.28	26.3
39.1-41.0	44.2- 46.4	2.56	4.25	5.95	7.66	9.37	11.08	12.79	14.50	16.22	17.93	19.64	21.36	23.07	24.78	26.50	28.21	29.92	31.64	26.8
41.1-43.0	46.5- 48.7	2.58	4.29	6.01	7.73	9.46	11.19	12.92	14.65	16.38	18.11	19.84	21.57	23.30	25.03	26.76	28.49	30.22	31.95	27.2
43.1-45.0	48.8- 50.9	2.60	4.32	6.05	7.79	9.54	11.28	13.03	14.77	16.52	18.26	20.01	21.76	23.50	25.25	27.00	28.74	30.49	32.24	27.6
45.1-47.0	51.0- 53.2	2.61	4.35	6.10	7.85	9.61	11.37	13.13	14.88	16.64	18.41	20.17	21.93	23.69	25.45	27.21	28.97	30.73	32.49	28.0
47.1-49.0	53.3- 55.4	2.62	4.37	6.13	7.90	9.67	11.44	13.21	14.99	16.76	18.53	20.31	22.08	23.85	25.63	27.40	29.17	30.95	32.72	28.3
49.1-51.0	55.6- 57.7	2.63	4.39	6.16	7.94	9.73	11.51	13.29	15.08	16.86	18.65	20.43	22.22	24.00	25.79	27.57	29.36	31.14	32.93	28.6
51.1-53.0	57.8- 60.0	2.64	4.41	6.19	7.98	9.78	11.57	13.37	15.16	16.96	18.75	20.55	22.34	24.14	25.94	27.73	29.53	31.32	33.12	28.9
53.1-55.0	60.1- 62.2	2.65	4.42	6.22	8.02	9.82	11.63	13.43	15.24	17.04	18.85	20.65	22.46	24.26	26.07	27.88	29.68	31.49	33.29	29.1
55.1-57.0	62.3- 64.5	2.65	4.44	6.24	8.05	9.86	11.68	13.49	15.31	17.12	18.94	20.75	22.56	24.38	26.19	28.01	29.82	31.64	33.45	29.3
57.1-59.0	64.6- 66.7	2.66	4.45	6.26	8.08	9.90	11.72	13.55	15.37	17.19	19.01	20.84	22.66	24.48	26.31	28.13	29.95	31.78	33.60	29.5
59.1-61.0	66.8- 69.0	2.66	4.46	6.28	8.11	9.94	11.77	13.60	15.43	17.26	19.09	20.92	22.75	24.58	26.41	28.24	30.07	31.90	33.73	29.7
61.1-63.0	69.1- 71.2	2.66	4.47	6.30	8.13	9.97	11.80	13.64	15.48	17.32	19.16	20.99	22.83	24.67	26.51	28.35	30.18	32.02	33.86	29.9
63.1-65.0	71.3- 73.5	2.66	4.48	6.31	8.15	10.00	11.84	13.68	15.53	17.37	19.22	21.06	22.91	24.75	26.60	28.44	30.29	32.13	33.97	30.0
65.1-67.0	73.6- 75.7	2.66	4.48	6.32	8.17	10.02	11.87	13.72	15.57	17.42	19.28	21.13	22.98	24.83	26.68	28.53	30.38	32.23	34.08	30.1
67.1-69.0	75.8- 77.9	2.66	4.49	6.34	8.19	10.04	11.90	13.76	15.61	17.47	19.33	21.19	23.04	24.90	26.76	28.61	30.47	32.32	34.18	30.2
69.1-71.0	78.1- 80.2	2.66	4.49	6.35	8.20	10.07	11.93	13.79	15.65	17.52	19.38	21.24	23.10	24.96	26.83	28.69	30.55	32.41	34.27	30.3
71.1-73.0	80.3- 82.4	2.66	4.50	6.35	8.22	10.09	11.95	13.82	15.69	17.56	19.42	21.29	23.16	25.03	26.89	28.76	30.63	32.49	34.36	30.4
73.1-75.0	82.5- 84.6	2.66	4.50	6.36	8.23	10.10	11.98	13.85	15.72	17.59	19.47	21.34	23.21	25.08	26.95	28.83	30.70	32.57	34.44	30.5
75.1-77.0	84.8- 86.9	2.66	4.50	6.37	8.24	10.12	12.00	13.87	15.75	17.63	19.51	21.38	23.26	25.14	27.01	28.89	30.76	32.64	34.52	30.6
77.1-79.0	87.0- 89.1	2.66	4.50	6.37	8.25	10.13	12.02	13.90	15.78	17.66	19.54	21.42	23.31	25.19	27.07	28.95	30.83	32.71	34.59	30.6
79.1-81.0	89.2- 91.3	2.65	4.50	6.38	8.26	10.15	12.03	13.92	15.81	17.69	19.58	21.46	23.35	25.23	27.12	29.00	30.89	32.77	34.65	30.7

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

Table 38. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	12.2- 14.4	0.22	0.42	0.62	0.82	1.02	1.21	1.41	1.61	1.80	2.00	2.19	2.39	2.58	2.78	2.98	3.17	3.37	3.56	12.3
13.1-15.0	14.5- 16.7	0.84	1.45	2.06	2.67	3.28	3.90	4.51	5.13	5.74	6.36	6.97	7.58	8.20	8.81	9.43	10.04	10.66	11.28	14.0
15.1-17.0	16.8- 19.0	1.26	2.13	3.01	3.90	4.78	5.67	6.55	7.44	8.32	9.21	10.10	10.99	11.87	12.76	13.65	14.53	15.42	16.31	15.6
17.1-19.0	19.1- 21.3	1.55	2.60	3.65	4.71	5.78	6.84	7.90	8.97	10.03	11.10	12.17	13.23	14.30	15.36	16.43	17.49	18.56	19.63	17.1
19.1-21.0	21.4- 23.6	1.76	2.93	4.12	5.30	6.49	7.69	8.88	10.07	11.26	12.46	13.65	14.85	16.04	17.23	18.43	19.62	20.82	22.01	18.4
21.1-23.0	23.7- 25.9	1.91	3.18	4.47	5.75	7.04	8.33	9.62	10.91	12.20	13.49	14.78	16.07	17.36	18.66	19.95	21.24	22.53	23.82	19.7
23.1-25.0	26.0- 28.2	2.04	3.38	4.74	6.10	7.47	8.83	10.20	11.57	12.93	14.30	15.67	17.04	18.41	19.78	21.15	22.52	23.89	25.26	20.8
25.1-27.0	28.3- 30.5	2.13	3.54	4.96	6.38	7.81	9.24	10.67	12.10	13.53	14.96	16.39	17.82	19.26	20.69	22.12	23.55	24.98	26.42	21.9
27.1-29.0	30.6- 32.7	2.21	3.67	5.14	6.62	8.10	9.58	11.06	12.54	14.02	15.51	16.99	18.47	19.96	21.44	22.92	24.41	25.89	27.38	22.8
29.1-31.0	32.8- 35.0	2.27	3.78	5.29	6.81	8.33	9.86	11.38	12.91	14.44	15.96	17.49	19.02	20.55	22.07	23.60	25.13	26.66	28.18	23.6
31.1-33.0	35.1- 37.3	2.33	3.87	5.42	6.97	8.54	10.10	11.66	13.22	14.79	16.35	17.92	19.48	21.05	22.61	24.18	25.74	27.31	28.87	24.4
33.1-35.0	37.4- 39.6	2.37	3.94	5.53	7.12	8.71	10.30	11.90	13.49	15.09	16.69	18.28	19.88	21.48	23.08	24.68	26.27	27.87	29.47	25.1
35.1-37.0	39.7- 41.8	2.41	4.01	5.62	7.24	8.86	10.48	12.10	13.73	15.35	16.98	18.60	20.23	21.86	23.48	25.11	26.74	28.36	29.99	25.7
37.1-39.0	42.0- 44.1	2.44	4.06	5.70	7.34	8.99	10.64	12.28	13.93	15.58	17.23	18.89	20.54	22.19	23.84	25.49	27.14	28.79	30.44	26.3
39.1-41.0	44.2- 46.4	2.47	4.11	5.77	7.43	9.10	10.77	12.44	14.12	15.79	17.46	19.13	20.81	22.48	24.15	25.83	27.50	29.17	30.85	26.8
41.1-43.0	46.5- 48.7	2.49	4.15	5.83	7.52	9.20	10.89	12.58	14.28	15.97	17.66	19.35	21.05	22.74	24.43	26.12	27.82	29.51	31.20	27.2
43.1-45.0	48.8- 50.9	2.51	4.19	5.88	7.59	9.29	11.00	12.71	14.42	16.13	17.84	19.55	21.26	22.97	24.68	26.39	28.10	29.81	31.52	27.6
45.1-47.0	51.0- 53.2	2.52	4.22	5.93	7.65	9.37	11.10	12.82	14.55	16.27	18.00	19.73	21.45	23.18	24.91	26.63	28.36	30.09	31.81	28.0
47.1-49.0	53.3- 55.4	2.54	4.25	5.97	7.71	9.44	11.18	12.92	14.66	16.40	18.14	19.88	21.63	23.37	25.11	26.85	28.59	30.33	32.07	28.3
49.1-51.0	55.6- 57.7	2.55	4.27	6.01	7.76	9.51	11.26	13.01	14.77	16.52	18.27	20.03	21.78	23.54	25.29	27.05	28.80	30.56	32.31	28.6
51.1-53.0	57.8- 60.0	2.56	4.29	6.05	7.80	9.57	11.33	13.10	14.86	16.63	18.39	20.16	21.93	23.69	25.46	27.23	28.99	30.76	32.53	28.9
53.1-55.0	60.1- 62.2	2.57	4.31	6.08	7.85	9.62	11.39	13.17	14.95	16.72	18.50	20.28	22.06	23.83	25.61	27.39	29.17	30.95	32.72	29.1
55.1-57.0	62.3- 64.5	2.58	4.33	6.10	7.88	9.67	11.45	13.24	15.03	16.81	18.60	20.39	22.18	23.96	25.75	27.54	29.33	31.12	32.90	29.3
57.1-59.0	64.6- 66.7	2.58	4.34	6.13	7.92	9.71	11.50	13.30	15.10	16.89	18.69	20.49	22.29	24.08	25.88	27.68	29.47	31.27	33.07	29.5
59.1-61.0	66.8- 69.0	2.59	4.36	6.15	7.95	9.75	11.55	13.36	15.16	16.97	18.77	20.58	22.39	24.19	26.00	27.80	29.61	31.42	33.22	29.7
61.1-63.0	69.1- 71.2	2.59	4.37	6.17	7.97	9.78	11.60	13.41	15.22	17.04	18.85	20.66	22.48	24.29	26.11	27.92	29.74	31.55	33.36	29.9
63.1-65.0	71.3- 73.5	2.59	4.38	6.18	8.00	9.82	11.64	13.46	15.28	17.10	18.92	20.74	22.56	24.39	26.21	28.03	29.85	31.67	33.49	30.0
65.1-67.0	73.6- 75.7	2.59	4.38	6.20	8.02	9.85	11.67	13.50	15.33	17.16	18.99	20.82	22.64	24.47	26.30	28.13	29.96	31.79	33.62	30.1
67.1-69.0	75.8- 77.9	2.59	4.39	6.21	8.04	9.87	11.71	13.54	15.38	17.21	19.05	20.88	22.72	24.55	26.39	28.22	30.06	31.89	33.73	30.2
69.1-71.0	78.1- 80.2	2.59	4.40	6.22	8.06	9.90	11.74	13.58	15.42	17.26	19.10	20.95	22.79	24.63	26.47	28.31	30.15	31.99	33.84	30.3
71.1-73.0	80.3- 82.4	2.59	4.40	6.24	8.08	9.92	11.77	13.61	15.46	17.31	19.16	21.00	22.85	24.70	26.55	28.39	30.24	32.09	33.93	30.4
73.1-75.0	82.5- 84.6	2.59	4.41	6.24	8.09	9.94	11.79	13.65	15.50	17.35	19.20	21.06	22.91	24.76	26.62	28.47	30.32	32.17	34.03	30.5
75.1-77.0	84.8- 86.9	2.59	4.41	6.25	8.11	9.96	11.82	13.68	15.53	17.39	19.25	21.11	22.97	24.82	26.68	28.54	30.40	32.25	34.11	30.6
77.1-79.0	87.0- 89.1	2.59	4.41	6.26	8.12	9.98	11.84	13.70	15.57	17.43	19.29	21.15	23.02	24.88	26.74	28.61	30.47	32.33	34.19	30.6
79.1-81.0	89.2- 91.3	2.59	4.41	6.27	8.13	9.99	11.86	13.73	15.60	17.46	19.33	21.20	23.07	24.93	26.80	28.67	30.53	32.40	34.27	30.7

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

Table 39. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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- 16.7	0.16	0.33	0.48	0.64	0.80	0.95	1.11	1.26	1.42	1.57	1.73	1.88	2.04	2.19	2.35	2.50	2.65	2.81	14.0
15.1-17.0	16.8- 19.0	0.68	1.19	1.70	2.21	2.72	3.23	3.74	4.26	4.77	5.28	5.79	6.30	6.81	7.33	7.84	8.35	8.86	9.37	15.6
17.1-19.0	19.1- 21.3	1.08	1.84	2.61	3.39	4.17	4.95	5.73	6.52	7.30	8.08	8.86	9.65	10.43	11.21	12.00	12.78	13.56	14.35	17.1
19.1-21.0	21.4- 23.6	1.35	2.30	3.25	4.21	5.17	6.14	7.10	8.06	9.03	9.99	10.96	11.93	12.89	13.86	14.82	15.79	16.76	17.72	18.4
21.1-23.0	23.7- 25.9	1.56	2.63	3.72	4.81	5.91	7.00	8.10	9.20	10.30	11.39	12.49	13.59	14.69	15.79	16.89	17.99	19.09	20.19	19.7
23.1-25.0	26.0- 28.2	1.72	2.89	4.08	5.27	6.47	7.67	8.87	10.07	11.27	12.47	13.67	14.87	16.07	17.28	18.48	19.68	20.88	22.08	20.8
25.1-27.0	28.3- 30.5	1.84	3.10	4.37	5.64	6.92	8.20	9.48	10.76	12.04	13.33	14.61	15.89	17.18	18.46	19.74	21.03	22.31	23.59	21.9
27.1-29.0	30.6- 32.7	1.95	3.27	4.60	5.94	7.29	8.63	9.98	11.33	12.68	14.03	15.38	16.73	18.08	19.43	20.78	22.13	23.48	24.83	22.8
29.1-31.0	32.8- 35.0	2.03	3.40	4.79	6.19	7.59	8.99	10.39	11.80	13.20	14.61	16.01	17.42	18.83	20.23	21.64	23.05	24.45	25.86	23.6
31.1-33.0	35.1- 37.3	2.10	3.52	4.95	6.40	7.84	9.29	10.75	12.20	13.65	15.10	16.56	18.01	19.46	20.92	22.37	23.82	25.28	26.73	24.4
33.1-35.0	37.4- 39.6	2.15	3.61	5.09	6.58	8.06	9.55	11.05	12.54	14.03	15.53	17.02	18.51	20.01	21.50	23.00	24.49	25.99	27.48	25.1
35.1-37.0	39.7- 41.8	2.20	3.70	5.21	6.73	8.25	9.78	11.31	12.83	14.36	15.89	17.42	18.95	20.48	22.01	23.54	25.07	26.60	28.14	25.7
37.1-39.0	42.0- 44.1	2.24	3.77	5.31	6.86	8.42	9.97	11.53	13.09	14.65	16.21	17.77	19.33	20.90	22.46	24.02	25.58	27.14	28.71	26.3
39.1-41.0	44.2- 46.4	2.28	3.83	5.40	6.98	8.56	10.14	11.73	13.32	14.91	16.49	18.08	19.67	21.26	22.85	24.44	26.03	27.62	29.21	26.8
41.1-43.0	46.5- 48.7	2.31	3.88	5.48	7.08	8.69	10.30	11.91	13.52	15.13	16.74	18.36	19.97	21.59	23.20	24.81	26.43	28.04	29.66	27.2
43.1-45.0	48.8- 50.9	2.33	3.93	5.55	7.17	8.80	10.43	12.06	13.70	15.33	16.97	18.60	20.24	21.87	23.51	25.15	26.78	28.42	30.06	27.6
45.1-47.0	51.0- 53.2	2.36	3.97	5.61	7.25	8.90	10.55	12.20	13.86	15.51	17.17	18.82	20.48	22.13	23.79	25.45	27.10	28.76	30.42	28.0
47.1-49.0	53.3- 55.4	2.38	4.01	5.66	7.32	8.99	10.66	12.33	14.00	15.67	17.35	19.02	20.70	22.37	24.04	25.72	27.39	29.07	30.74	28.3
49.1-51.0	55.6- 57.7	2.39	4.04	5.71	7.39	9.07	10.76	12.44	14.13	15.82	17.51	19.20	20.89	22.58	24.27	25.96	27.65	29.34	31.04	28.6
51.1-53.0	57.8- 60.0	2.41	4.07	5.75	7.44	9.14	10.84	12.55	14.25	15.95	17.66	19.36	21.07	22.77	24.48	26.19	27.89	29.60	31.30	28.9
53.1-55.0	60.1- 62.2	2.42	4.09	5.79	7.50	9.21	10.92	12.64	14.36	16.08	17.79	19.51	21.23	22.95	24.67	26.39	28.11	29.83	31.55	29.1
55.1-57.0	62.3- 64.5	2.43	4.11	5.82	7.54	9.27	11.00	12.73	14.46	16.19	17.92	19.65	21.38	23.11	24.84	26.58	28.31	30.04	31.77	29.3
57.1-59.0	64.6- 66.7	2.44	4.13	5.86	7.59	9.32	11.06	12.80	14.55	16.29	18.03	19.77	21.52	23.26	25.00	26.75	28.49	30.24	31.98	29.5
59.1-61.0	66.8- 69.0	2.44	4.15	5.88	7.63	9.37	11.12	12.87	14.63	16.38	18.13	19.89	21.64	23.40	25.15	26.91	28.66	30.42	32.17	29.7
61.1-63.0	69.1- 71.2	2.45	4.17	5.91	7.66	9.42	11.18	12.94	14.70	16.47	18.23	19.99	21.76	23.52	25.29	27.05	28.82	30.58	32.35	29.9
63.1-65.0	71.3- 73.5	2.46	4.18	5.93	7.69	9.46	11.23	13.00	14.77	16.55	18.32	20.09	21.87	23.64	25.41	27.19	28.96	30.74	32.51	30.0
65.1-67.0	73.6- 75.7	2.46	4.19	5.95	7.72	9.50	11.28	13.06	14.84	16.62	18.40	20.18	21.97	23.75	25.53	27.31	29.10	30.88	32.66	30.1
67.1-69.0	75.8- 77.9	2.46	4.20	5.97	7.75	9.53	11.32	13.11	14.90	16.69	18.48	20.27	22.06	23.85	25.64	27.43	29.22	31.01	32.80	30.2
69.1-71.0	78.1- 80.2	2.47	4.21	5.99	7.77	9.56	11.36	13.15	14.95	16.75	18.55	20.35	22.14	23.94	25.74	27.54	29.34	31.14	32.93	30.3
71.1-73.0	80.3- 82.4	2.47	4.22	6.00	7.79	9.59	11.40	13.20	15.00	16.81	18.61	20.42	22.22	24.03	25.83	27.64	29.45	31.25	33.06	30.4
73.1-75.0	82.5- 84.6	2.47	4.23	6.01	7.81	9.62	11.43	13.24	15.05	16.86	18.67	20.49	22.30	24.11	25.92	27.74	29.55	31.36	33.17	30.5
75.1-77.0	84.8- 86.9	2.47	4.23	6.03	7.83	9.65	11.46	13.28	15.09	16.91	18.73	20.55	22.37	24.19	26.01	27.82	29.64	31.46	33.28	30.6
77.1-79.0	87.0- 89.1	2.47	4.24	6.04	7.85	9.67	11.49	13.31	15.14	16.96	18.78	20.61	22.43	24.26	26.08	27.91	29.73	31.56	33.38	30.6
79.1-81.0	89.2- 91.3	2.47	4.24	6.05	7.86	9.69	11.52	13.34	15.17	17.00	18.83	20.66	22.49	24.32	26.15	27.99	29.82	31.65	33.48	30.7

Table 40. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	16.8- 19.0	0.13	0.26	0.39	0.52	0.65	0.78	0.91	1.04	1.17	1.29	1.42	1.55	1.68	1.80	1.93	2.06	2.19	2.32	15.6
17.1-19.0	19.1- 21.3	0.57	0.99	1.42	1.84	2.27	2.69	3.12	3.54	3.97	4.39	4.82	5.24	5.67	6.09	6.51	6.94	7.36	7.79	17.1
19.1-21.0	21.4- 23.6	0.92	1.60	2.28	2.96	3.65	4.34	5.03	5.72	6.41	7.10	7.79	8.48	9.17	9.86	10.55	11.24	11.93	12.63	18.4
21.1-23.0	23.7- 25.9	1.19	2.04	2.90	3.77	4.64	5.52	6.39	7.26	8.14	9.02	9.89	10.77	11.64	12.52	13.40	14.28	15.15	16.03	19.7
23.1-25.0	26.0- 28.2	1.39	2.38	3.37	4.38	5.38	6.39	7.40	8.42	9.43	10.44	11.45	12.47	13.48	14.49	15.51	16.52	17.54	18.55	20.8
25.1-27.0	28.3- 30.5	1.55	2.64	3.74	4.85	5.96	7.08	8.19	9.31	10.43	11.55	12.67	13.79	14.91	16.03	17.15	18.27	19.39	20.51	21.9
27.1-29.0	30.6- 32.7	1.68	2.85	4.03	5.23	6.43	7.63	8.83	10.03	11.23	12.44	13.64	14.85	16.05	17.26	18.46	19.67	20.87	22.08	22.8
29.1-31.0	32.8- 35.0	1.78	3.02	4.27	5.54	6.81	8.08	9.35	10.62	11.89	13.17	14.44	15.72	16.99	18.27	19.55	20.82	22.10	23.37	23.6
31.1-33.0	35.1- 37.3	1.87	3.16	4.47	5.80	7.12	8.45	9.78	11.12	12.45	13.78	15.12	16.45	17.79	19.12	20.45	21.79	23.13	24.46	24.4
33.1-35.0	37.4- 39.6	1.94	3.28	4.64	6.02	7.39	8.77	10.16	11.54	12.92	14.31	15.69	17.07	18.46	19.84	21.23	22.62	24.00	25.39	25.1
35.1-37.0	39.7- 41.8	2.00	3.38	4.79	6.21	7.63	9.05	10.47	11.90	13.33	14.76	16.18	17.61	19.04	20.47	21.90	23.33	24.76	26.19	25.7
37.1-39.0	42.0- 44.1	2.05	3.47	4.92	6.37	7.83	9.29	10.75	12.22	13.68	15.15	16.61	18.08	19.55	21.01	22.48	23.95	25.42	26.88	26.3
39.1-41.0	44.2- 46.4	2.09	3.55	5.02	6.51	8.00	9.50	11.00	12.49	13.99	15.49	16.99	18.49	19.99	21.49	22.99	24.50	26.00	27.50	26.8
41.1-43.0	46.5- 48.7	2.13	3.61	5.12	6.64	8.16	9.68	11.21	12.74	14.27	15.80	17.33	18.86	20.39	21.92	23.45	24.98	26.51	28.04	27.2
43.1-45.0	48.8- 50.9	2.16	3.67	5.20	6.75	8.30	9.85	11.40	12.96	14.51	16.07	17.62	19.18	20.74	22.30	23.85	25.41	26.97	28.53	27.6
45.1-47.0	51.0- 53.2	2.19	3.72	5.28	6.85	8.42	9.99	11.57	13.15	14.73	16.31	17.89	19.47	21.05	22.64	24.22	25.80	27.38	28.96	28.0
47.1-49.0	53.3- 55.4	2.22	3.77	5.35	6.93	8.53	10.13	11.72	13.33	14.93	16.53	18.13	19.73	21.34	22.94	24.55	26.15	27.75	29.36	28.3
49.1-51.0	55.6- 57.7	2.24	3.81	5.40	7.01	8.63	10.24	11.86	13.48	15.10	16.73	18.35	19.97	21.60	23.22	24.84	26.47	28.09	29.71	28.6
51.1-53.0	57.8- 60.0	2.26	3.84	5.46	7.08	8.72	10.35	11.99	13.63	15.27	16.91	18.55	20.19	21.83	23.47	25.11	26.75	28.40	30.04	28.9
53.1-55.0	60.1- 62.2	2.27	3.87	5.51	7.15	8.80	10.45	12.10	13.76	15.41	17.07	18.73	20.38	22.04	23.70	25.36	27.02	28.68	30.33	29.1
55.1-57.0	62.3- 64.5	2.29	3.90	5.55	7.21	8.87	10.54	12.20	13.88	15.55	17.22	18.89	20.56	22.24	23.91	25.58	27.26	28.93	30.61	29.3
57.1-59.0	64.6- 66.7	2.30	3.93	5.59	7.26	8.94	10.62	12.30	13.98	15.67	17.36	19.04	20.73	22.42	24.10	25.79	27.48	29.17	30.86	29.5
59.1-61.0	66.8- 69.0	2.31	3.95	5.62	7.31	9.00	10.69	12.39	14.08	15.78	17.48	19.18	20.88	22.58	24.28	25.98	27.68	29.38	31.09	29.7
61.1-63.0	69.1- 71.2	2.32	3.97	5.65	7.35	9.05	10.76	12.47	14.18	15.89	17.60	19.31	21.02	22.73	24.45	26.16	27.87	29.59	31.30	29.9
63.1-65.0	71.3- 73.5	2.33	3.99	5.68	7.39	9.10	10.82	12.54	14.26	15.98	17.70	19.43	21.15	22.87	24.60	26.32	28.05	29.77	31.50	30.0
65.1-67.0	73.6- 75.7	2.33	4.00	5.71	7.42	9.15	10.88	12.61	14.34	16.07	17.80	19.54	21.27	23.01	24.74	26.47	28.21	29.94	31.68	30.1
67.1-69.0	75.8- 77.9	2.34	4.02	5.73	7.46	9.19	10.93	12.67	14.41	16.15	17.90	19.64	21.38	23.13	24.87	26.62	28.36	30.10	31.85	30.2
69.1-71.0	78.1- 80.2	2.34	4.03	5.75	7.49	9.23	10.98	12.73	14.48	16.23	17.98	19.73	21.49	23.24	24.99	26.75	28.50	30.25	32.01	30.3
71.1-73.0	80.3- 82.4	2.35	4.04	5.77	7.52	9.27	11.02	12.78	14.54	16.30	18.06	19.82	21.58	23.35	25.11	26.87	28.63	30.39	32.16	30.4
73.1-75.0	82.5- 84.6	2.35	4.05	5.79	7.54	9.30	11.06	12.83	14.60	16.37	18.13	19.90	21.67	23.44	25.21	26.98	28.75	30.52	32.29	30.5
75.1-77.0	84.8- 86.9	2.35	4.06	5.80	7.56	9.33	11.10	12.88	14.65	16.43	18.20	19.98	21.76	23.54	25.31	27.09	28.87	30.65	32.43	30.6
77.1-79.0	87.0- 89.1	2.35	4.07	5.82	7.59	9.36	11.14	12.92	14.70	16.48	18.27	20.05	21.84	23.62	25.41	27.19	28.98	30.76	32.55	30.6
79.1-81.0	89.2- 91.3	2.36	4.07	5.83	7.60	9.39	11.17	12.96	14.75	16.54	18.33	20.12	21.91	23.70	25.49	27.29	29.08	30.87	32.66	30.7

10.0 MERCHANTABLE LENGTH TABLES FOR NATURAL REGIONS 9, 11, 14

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

Table 41. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	5.7- 7.8	0.67	1.19	1.70	2.23	2.75	3.28	3.80	4.33	4.86	5.39	5.92	6.45	6.98	7.51	8.04	8.57	9.10	9.63	6.3
7.1- 9.0	7.9- 10.0	1.61	2.79	4.00	5.22	6.45	7.68	8.92	10.16	11.39	12.63	13.87	15.11	16.35	17.59	18.83	20.07	21.31	22.55	8.3
9.1-11.0	10.1- 12.2	1.98	3.40	4.86	6.32	7.79	9.27	10.74	12.22	13.70	15.18	16.66	18.14	19.62	21.10	22.58	24.07	25.55	27.03	10.2
11.1-13.0	12.3- 14.4	2.17	3.72	5.31	6.91	8.51	10.12	11.73	13.34	14.95	16.56	18.18	19.79	21.41	23.02	24.64	26.25	27.87	29.48	12.1
13.1-15.0	14.5- 16.6	2.28	3.91	5.58	7.27	8.96	10.65	12.34	14.04	15.74	17.44	19.13	20.83	22.53	24.23	25.93	27.63	29.33	31.03	13.9
15.1-17.0	16.8- 18.9	2.34	4.03	5.76	7.50	9.25	11.01	12.76	14.52	16.27	18.03	19.79	21.54	23.30	25.06	26.82	28.58	30.33	32.09	15.6
17.1-19.0	19.0- 21.2	2.38	4.11	5.88	7.67	9.46	11.26	13.05	14.85	16.65	18.45	20.25	22.05	23.85	25.65	27.45	29.26	31.06	32.86	17.1
19.1-21.0	21.3- 23.5	2.40	4.16	5.97	7.79	9.61	11.44	13.27	15.10	16.93	18.77	20.60	22.43	24.27	26.10	27.93	29.76	31.60	33.43	18.6
21.1-23.0	23.6- 25.8	2.41	4.19	6.02	7.87	9.72	11.58	13.43	15.29	17.15	19.01	20.86	22.72	24.58	26.44	28.30	30.15	32.01	33.87	19.9
23.1-25.0	25.9- 28.1	2.41	4.21	6.06	7.93	9.80	11.68	13.56	15.43	17.31	19.19	21.07	22.95	24.83	26.71	28.58	30.46	32.34	34.22	21.1
25.1-27.0	28.2- 30.4	2.41	4.22	6.09	7.97	9.86	11.76	13.65	15.55	17.44	19.34	21.23	23.13	25.02	26.92	28.81	30.71	32.60	34.50	22.3
27.1-29.0	30.5- 32.7	2.40	4.22	6.10	8.00	9.91	11.82	13.73	15.64	17.55	19.46	21.37	23.27	25.18	27.09	29.00	30.91	32.82	34.72	23.3
29.1-31.0	32.9- 35.1	2.39	4.22	6.11	8.02	9.94	11.86	13.78	15.71	17.63	19.55	21.47	23.39	25.31	27.23	29.15	31.07	32.99	34.91	24.3
31.1-33.0	35.2- 37.5	2.37	4.21	6.11	8.03	9.96	11.90	13.83	15.76	17.69	19.63	21.56	23.49	25.42	27.35	29.28	31.21	33.14	35.06	25.1
33.1-35.0	37.6- 39.9	2.36	4.20	6.11	8.04	9.98	11.92	13.86	15.81	17.75	19.69	21.63	23.57	25.51	27.45	29.38	31.32	33.26	35.19	25.9
35.1-37.0	40.0- 42.3	2.34	4.19	6.10	8.04	9.99	11.94	13.89	15.84	17.79	19.74	21.69	23.63	25.58	27.53	29.47	31.42	33.36	35.31	26.6
37.1-39.0	42.4- 44.7	2.33	4.17	6.09	8.04	9.99	11.95	13.91	15.87	17.82	19.78	21.73	23.69	25.64	27.60	29.55	31.50	33.45	35.40	27.3
39.1-41.0	44.8- 47.1	2.31	4.16	6.08	8.03	9.99	11.95	13.92	15.88	17.85	19.81	21.77	23.73	25.69	27.65	29.61	31.57	33.52	35.48	27.9
41.1-43.0	47.2- 49.6	2.29	4.14	6.06	8.02	9.98	11.96	13.93	15.90	17.87	19.84	21.80	23.77	25.74	27.70	29.66	31.63	33.59	35.55	28.4
43.1-45.0	49.7- 52.0	2.27	4.12	6.04	8.00	9.98	11.95	13.93	15.91	17.88	19.86	21.83	23.80	25.77	27.74	29.71	31.67	33.64	35.61	28.9
45.1-47.0	52.1- 54.5	2.26	4.10	6.03	7.99	9.97	11.95	13.93	15.91	17.89	19.87	21.85	23.83	25.80	27.77	29.75	31.72	33.69	35.66	29.4
47.1-49.0	54.6- 57.0	2.24	4.08	6.01	7.97	9.95	11.94	13.93	15.91	17.90	19.88	21.87	23.85	25.82	27.80	29.78	31.75	33.73	35.70	29.8
49.1-51.0	57.1- 59.5	2.22	4.05	5.98	7.95	9.94	11.93	13.92	15.91	17.90	19.89	21.88	23.86	25.84	27.82	29.80	31.78	33.76	35.74	30.2
51.1-53.0	59.6- 62.0	2.20	4.03	5.96	7.93	9.92	11.92	13.91	15.91	17.90	19.89	21.88	23.87	25.86	27.84	29.83	31.81	33.79	35.77	30.5
53.1-55.0	62.1- 64.5	2.18	4.01	5.94	7.91	9.90	11.90	13.90	15.90	17.90	19.89	21.89	23.88	25.87	27.86	29.84	31.83	33.81	35.80	30.8
55.1-57.0	64.7- 67.1	2.16	3.99	5.92	7.89	9.89	11.89	13.89	15.89	17.89	19.89	21.89	23.89	25.88	27.87	29.86	31.85	33.83	35.82	31.1
57.1-59.0	67.2- 69.6	2.15	3.96	5.89	7.87	9.87	11.87	13.88	15.88	17.89	19.89	21.89	23.89	25.88	27.88	29.87	31.86	33.85	35.84	31.3
59.1-61.0	69.8- 72.2	2.13	3.94	5.87	7.85	9.84	11.85	13.86	15.87	17.88	19.88	21.89	23.89	25.89	27.88	29.88	31.87	33.86	35.85	31.6
61.1-63.0	72.3- 74.8	2.11	3.92	5.84	7.82	9.82	11.83	13.84	15.86	17.87	19.88	21.88	23.89	25.89	27.89	29.88	31.88	33.87	35.87	31.8
63.1-65.0	74.9- 77.4	2.09	3.89	5.82	7.80	9.80	11.81	13.83	15.84	17.85	19.87	21.88	23.88	25.89	27.89	29.89	31.89	33.88	35.88	32.0
65.1-67.0	77.5- 80.0	2.08	3.87	5.79	7.77	9.78	11.79	13.81	15.83	17.84	19.86	21.87	23.88	25.88	27.89	29.89	31.89	33.89	35.89	32.1
67.1-69.0	80.2- 82.7	2.06	3.85	5.77	7.75	9.75	11.77	13.79	15.81	17.83	19.84	21.86	23.87	25.88	27.88	29.89	31.89	33.89	35.89	32.3
69.1-71.0	82.8- 85.3	2.05	3.83	5.74	7.72	9.73	11.74	13.77	15.79	17.81	19.83	21.85	23.86	25.87	27.88	29.89	31.89	33.90	35.90	32.4
71.1-73.0	85.4- 88.0	2.03	3.80	5.72	7.69	9.70	11.72	13.74	15.77	17.79	19.81	21.83	23.85	25.86	27.88	29.88	31.89	33.90	35.90	32.5
73.1-75.0	88.1- 90.7	2.01	3.78	5.69	7.67	9.67	11.70	13.72	15.75	17.78	19.80	21.82	23.84	25.85	27.87	29.88	31.89	33.90	35.90	32.7
75.1-77.0	90.8- 93.3	2.00	3.76	5.66	7.64	9.65	11.67	13.70	15.73	17.76	19.78	21.81	23.83	25.84	27.86	29.87	31.88	33.89	35.90	32.8
77.1-79.0	93.5- 96.1	1.98	3.74	5.64	7.61	9.62	11.65	13.68	15.71	17.74	19.77	21.79	23.81	25.83	27.85	29.87	31.88	33.89	35.90	32.9
79.1-81.0	96.2- 98.8	1.97	3.71	5.61	7.59	9.60	11.62	13.65	15.68	17.72	19.75	21.77	23.80	25.82	27.84	29.86	31.87	33.88	35.89	32.9

Table 42. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	7.9- 10.0	0.44	0.74	1.02	1.29	1.54	1.79	2.04	2.28	2.52	2.76	3.00	3.23	3.46	3.70	3.93	4.16	4.39	4.62	8.3
9.1-11.0	10.1- 12.2	1.20	2.15	3.13	4.14	5.16	6.18	7.21	8.25	9.28	10.32	11.36	12.40	13.44	14.48	15.52	16.56	17.61	18.65	10.2
11.1-13.0	12.3- 14.4	1.57	2.79	4.05	5.34	6.63	7.94	9.25	10.56	11.87	13.18	14.50	15.82	17.13	18.45	19.77	21.09	22.41	23.72	12.1
13.1-15.0	14.5- 16.6	1.78	3.15	4.57	6.01	7.46	8.92	10.38	11.85	13.32	14.79	16.26	17.73	19.21	20.68	22.15	23.63	25.10	26.58	13.9
15.1-17.0	16.8- 18.9	1.91	3.38	4.89	6.44	7.99	9.55	11.12	12.69	14.26	15.83	17.41	18.98	20.56	22.13	23.71	25.29	26.86	28.44	15.6
17.1-19.0	19.0- 21.2	1.99	3.53	5.12	6.73	8.36	9.99	11.63	13.27	14.92	16.56	18.21	19.86	21.51	23.15	24.80	26.45	28.10	29.75	17.1
19.1-21.0	21.3- 23.5	2.04	3.63	5.27	6.94	8.62	10.31	12.01	13.70	15.40	17.10	18.80	20.50	22.21	23.91	25.61	27.32	29.02	30.73	18.6
21.1-23.0	23.6- 25.8	2.08	3.70	5.38	7.09	8.82	10.55	12.29	14.02	15.77	17.51	19.25	21.00	22.74	24.49	26.23	27.98	29.72	31.47	19.9
23.1-25.0	25.9- 28.1	2.10	3.75	5.47	7.21	8.97	10.73	12.50	14.27	16.05	17.83	19.60	21.38	23.16	24.94	26.72	28.50	30.28	32.06	21.1
25.1-27.0	28.2- 30.4	2.11	3.78	5.52	7.29	9.08	10.87	12.67	14.47	16.27	18.08	19.88	21.69	23.49	25.30	27.11	28.91	30.72	32.53	22.3
27.1-29.0	30.5- 32.7	2.12	3.81	5.57	7.36	9.17	10.98	12.80	14.63	16.45	18.28	20.11	21.94	23.77	25.59	27.42	29.25	31.08	32.91	23.3
29.1-31.0	32.9- 35.1	2.12	3.82	5.60	7.41	9.24	11.07	12.91	14.75	16.60	18.45	20.29	22.14	23.99	25.84	27.68	29.53	31.38	33.23	24.3
31.1-33.0	35.2- 37.5	2.12	3.83	5.62	7.45	9.29	11.14	13.00	14.86	16.72	18.58	20.45	22.31	24.17	26.04	27.90	29.77	31.63	33.49	25.1
33.1-35.0	37.6- 39.9	2.11	3.83	5.63	7.47	9.33	11.19	13.07	14.94	16.82	18.69	20.57	22.45	24.33	26.21	28.08	29.96	31.84	33.72	25.9
35.1-37.0	40.0- 42.3	2.11	3.83	5.64	7.49	9.36	11.24	13.12	15.01	16.90	18.79	20.68	22.57	24.46	26.35	28.24	30.13	32.02	33.91	26.6
37.1-39.0	42.4- 44.7	2.10	3.82	5.64	7.50	9.38	11.27	13.17	15.06	16.96	18.86	20.76	22.67	24.57	26.47	28.37	30.27	32.17	34.07	27.3
39.1-41.0	44.8- 47.1	2.09	3.81	5.64	7.51	9.40	11.30	13.20	15.11	17.02	18.93	20.84	22.75	24.66	26.57	28.48	30.39	32.30	34.21	27.9
41.1-43.0	47.2- 49.6	2.07	3.80	5.63	7.51	9.40	11.31	13.23	15.14	17.06	18.98	20.90	22.82	24.74	26.66	28.58	30.50	32.41	34.33	28.4
43.1-45.0	49.7- 52.0	2.06	3.79	5.62	7.51	9.41	11.33	13.25	15.17	17.10	19.03	20.95	22.88	24.81	26.73	28.66	30.59	32.51	34.44	28.9
45.1-47.0	52.1- 54.5	2.05	3.78	5.61	7.50	9.41	11.33	13.26	15.19	17.13	19.06	21.00	22.93	24.87	26.80	28.73	30.66	32.60	34.53	29.4
47.1-49.0	54.6- 57.0	2.03	3.76	5.60	7.49	9.41	11.34	13.27	15.21	17.15	19.09	21.03	22.97	24.91	26.85	28.79	30.73	32.67	34.61	29.8
49.1-51.0	57.1- 59.5	2.02	3.74	5.58	7.48	9.40	11.34	13.28	15.22	17.17	19.12	21.06	23.01	24.96	26.90	28.85	30.79	32.73	34.68	30.2
51.1-53.0	59.6- 62.0	2.01	3.73	5.57	7.47	9.39	11.33	13.28	15.23	17.18	19.13	21.09	23.04	24.99	26.94	28.89	30.84	32.79	34.74	30.5
53.1-55.0	62.1- 64.5	1.99	3.71	5.55	7.45	9.38	11.33	13.28	15.23	17.19	19.15	21.11	23.06	25.02	26.98	28.93	30.89	32.84	34.79	30.8
55.1-57.0	64.7- 67.1	1.98	3.69	5.53	7.44	9.37	11.32	13.27	15.23	17.20	19.16	21.12	23.08	25.04	27.00	28.96	30.92	32.88	34.84	31.1
57.1-59.0	67.2- 69.6	1.96	3.67	5.51	7.42	9.35	11.31	13.27	15.23	17.20	19.17	21.13	23.10	25.06	27.03	28.99	30.96	32.92	34.88	31.3
59.1-61.0	69.8- 72.2	1.95	3.65	5.49	7.40	9.34	11.29	13.26	15.23	17.20	19.17	21.14	23.11	25.08	27.05	29.02	30.98	32.95	34.92	31.6
61.1-63.0	72.3- 74.8	1.94	3.63	5.47	7.38	9.32	11.28	13.25	15.22	17.19	19.17	21.14	23.12	25.09	27.07	29.04	31.01	32.98	34.95	31.8
63.1-65.0	74.9- 77.4	1.92	3.62	5.45	7.36	9.30	11.26	13.23	15.21	17.19	19.17	21.15	23.12	25.10	27.08	29.05	31.03	33.00	34.97	32.0
65.1-67.0	77.5- 80.0	1.91	3.60	5.43	7.34	9.28	11.25	13.22	15.20	17.18	19.16	21.15	23.13	25.11	27.09	29.07	31.04	33.02	34.99	32.1
67.1-69.0	80.2- 82.7	1.89	3.58	5.41	7.32	9.26	11.23	13.20	15.19	17.17	19.16	21.14	23.13	25.11	27.09	29.08	31.06	33.04	35.01	32.3
69.1-71.0	82.8- 85.3	1.88	3.56	5.39	7.29	9.24	11.21	13.19	15.17	17.16	19.15	21.14	23.13	25.11	27.10	29.08	31.07	33.05	35.03	32.4
71.1-73.0	85.4- 88.0	1.87	3.54	5.36	7.27	9.22	11.19	13.17	15.16	17.15	19.14	21.13	23.12	25.11	27.10	29.09	31.07	33.06	35.04	32.5
73.1-75.0	88.1- 90.7	1.85	3.52	5.34	7.25	9.19	11.17	13.15	15.14	17.13	19.13	21.12	23.12	25.11	27.10	29.09	31.08	33.07	35.05	32.7
75.1-77.0	90.8- 93.3	1.84	3.50	5.32	7.22	9.17	11.14	13.13	15.12	17.12	19.12	21.11	23.11	25.10	27.10	29.09	31.08	33.07	35.06	32.8
77.1-79.0	93.5- 96.1	1.83	3.48	5.30	7.20	9.15	11.12	13.11	15.10	17.10	19.10	21.10	23.10	25.10	27.09	29.09	31.08	33.08	35.07	32.9
79.1-81.0	96.2- 98.8	1.82	3.46	5.27	7.17	9.12	11.10	13.09	15.08	17.09	19.09	21.09	23.09	25.09	27.09	29.09	31.08	33.08	35.07	32.9

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

Table 43. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	0.61	1.07	1.53	1.99	2.45	2.92	3.38	3.84	4.31	4.77	5.24	5.70	6.17	6.63	7.10	7.56	8.03	8.49	12.1
13.1-15.0	14.5- 16.6	1.02	1.86	2.74	3.66	4.60	5.55	6.51	7.47	8.44	9.41	10.38	11.36	12.33	13.31	14.29	15.27	16.25	17.24	13.9
15.1-17.0	16.8- 18.9	1.27	2.32	3.44	4.59	5.76	6.95	8.14	9.34	10.54	11.75	12.95	14.16	15.38	16.59	17.80	19.02	20.23	21.45	15.6
17.1-19.0	19.0- 21.2	1.44	2.63	3.89	5.18	6.50	7.83	9.17	10.51	11.86	13.21	14.57	15.92	17.28	18.64	20.00	21.36	22.72	24.08	17.1
19.1-21.0	21.3- 23.5	1.55	2.83	4.19	5.59	7.01	8.44	9.88	11.33	12.78	14.23	15.69	17.15	18.61	20.07	21.53	22.99	24.46	25.92	18.6
21.1-23.0	23.6- 25.8	1.63	2.98	4.41	5.88	7.38	8.89	10.40	11.93	13.46	14.99	16.52	18.05	19.59	21.13	22.66	24.20	25.74	27.28	19.9
23.1-25.0	25.9- 28.1	1.69	3.09	4.58	6.11	7.66	9.23	10.80	12.39	13.97	15.56	17.15	18.75	20.34	21.94	23.54	25.14	26.73	28.33	21.1
25.1-27.0	28.2- 30.4	1.73	3.17	4.70	6.28	7.88	9.49	11.11	12.74	14.38	16.01	17.65	19.30	20.94	22.58	24.23	25.87	27.52	29.17	22.3
27.1-29.0	30.5- 32.7	1.76	3.23	4.79	6.41	8.04	9.70	11.36	13.03	14.70	16.38	18.06	19.74	21.42	23.10	24.79	26.47	28.16	29.84	23.3
29.1-31.0	32.9- 35.1	1.78	3.27	4.87	6.51	8.18	9.86	11.56	13.26	14.97	16.67	18.39	20.10	21.81	23.53	25.25	26.96	28.68	30.40	24.3
31.1-33.0	35.2- 37.5	1.79	3.31	4.92	6.59	8.29	10.00	11.72	13.45	15.18	16.92	18.66	20.40	22.14	23.88	25.63	27.37	29.12	30.86	25.1
33.1-35.0	37.6- 39.9	1.80	3.33	4.97	6.66	8.37	10.11	11.85	13.61	15.36	17.12	18.89	20.65	22.42	24.18	25.95	27.72	29.49	31.26	25.9
35.1-37.0	40.0- 42.3	1.81	3.35	5.00	6.71	8.44	10.20	11.96	13.74	15.51	17.29	19.08	20.86	22.65	24.44	26.22	28.01	29.80	31.59	26.6
37.1-39.0	42.4- 44.7	1.81	3.36	5.02	6.75	8.50	10.27	12.05	13.84	15.64	17.44	19.24	21.04	22.85	24.65	26.46	28.26	30.07	31.88	27.3
39.1-41.0	44.8- 47.1	1.81	3.37	5.04	6.78	8.54	10.33	12.13	13.94	15.75	17.56	19.38	21.20	23.02	24.84	26.66	28.48	30.30	32.13	27.9
41.1-43.0	47.2- 49.6	1.81	3.37	5.05	6.80	8.58	10.38	12.19	14.01	15.84	17.67	19.50	21.33	23.16	25.00	26.83	28.67	30.51	32.34	28.4
43.1-45.0	49.7- 52.0	1.80	3.37	5.06	6.82	8.61	10.42	12.24	14.08	15.91	17.75	19.60	21.44	23.29	25.14	26.99	28.83	30.68	32.53	28.9
45.1-47.0	52.1- 54.5	1.80	3.36	5.06	6.83	8.63	10.45	12.29	14.13	15.98	17.83	19.69	21.54	23.40	25.26	27.12	28.98	30.84	32.70	29.4
47.1-49.0	54.6- 57.0	1.79	3.36	5.06	6.83	8.64	10.48	12.32	14.17	16.03	17.90	19.76	21.63	23.50	25.36	27.23	29.10	30.97	32.84	29.8
49.1-51.0	57.1- 59.5	1.78	3.35	5.06	6.84	8.65	10.49	12.35	14.21	16.08	17.95	19.83	21.70	23.58	25.46	27.34	29.21	31.09	32.97	30.2
51.1-53.0	59.6- 62.0	1.78	3.34	5.05	6.84	8.66	10.51	12.37	14.24	16.12	18.00	19.88	21.76	23.65	25.54	27.42	29.31	31.20	33.09	30.5
53.1-55.0	62.1- 64.5	1.77	3.34	5.05	6.83	8.66	10.52	12.39	14.26	16.15	18.04	19.93	21.82	23.71	25.61	27.50	29.40	31.29	33.19	30.8
55.1-57.0	64.7- 67.1	1.76	3.32	5.04	6.83	8.66	10.52	12.40	14.28	16.17	18.07	19.97	21.87	23.77	25.67	27.57	29.47	31.38	33.28	31.1
57.1-59.0	67.2- 69.6	1.75	3.31	5.03	6.82	8.66	10.53	12.41	14.30	16.20	18.10	20.00	21.91	23.82	25.72	27.63	29.54	31.45	33.36	31.3
59.1-61.0	69.8- 72.2	1.74	3.30	5.01	6.81	8.65	10.52	12.41	14.31	16.21	18.12	20.03	21.94	23.86	25.77	27.68	29.60	31.51	33.43	31.6
61.1-63.0	72.3- 74.8	1.73	3.29	5.00	6.80	8.65	10.52	12.41	14.31	16.22	18.14	20.05	21.97	23.89	25.81	27.73	29.65	31.57	33.49	31.8
63.1-65.0	74.9- 77.4	1.72	3.27	4.99	6.79	8.64	10.51	12.41	14.32	16.23	18.15	20.07	22.00	23.92	25.85	27.77	29.70	31.62	33.55	32.0
65.1-67.0	77.5- 80.0	1.71	3.26	4.97	6.77	8.62	10.51	12.41	14.32	16.24	18.16	20.09	22.02	23.95	25.88	27.81	29.74	31.67	33.60	32.1
67.1-69.0	80.2- 82.7	1.70	3.25	4.96	6.76	8.61	10.50	12.40	14.32	16.24	18.17	20.10	22.03	23.97	25.90	27.84	29.77	31.71	33.64	32.3
69.1-71.0	82.8- 85.3	1.69	3.23	4.94	6.74	8.60	10.49	12.39	14.31	16.24	18.17	20.11	22.05	23.98	25.92	27.86	29.80	31.74	33.68	32.4
71.1-73.0	85.4- 88.0	1.68	3.22	4.92	6.72	8.58	10.47	12.38	14.31	16.24	18.17	20.11	22.05	24.00	25.94	27.88	29.83	31.77	33.72	32.5
73.1-75.0	88.1- 90.7	1.67	3.20	4.91	6.71	8.57	10.46	12.37	14.30	16.23	18.17	20.12	22.06	24.01	25.96	27.90	29.85	31.80	33.75	32.7
75.1-77.0	90.8- 93.3	1.66	3.19	4.89	6.69	8.55	10.44	12.36	14.29	16.23	18.17	20.12	22.07	24.02	25.97	27.92	29.87	31.82	33.77	32.8
77.1-79.0	93.5- 96.1	1.65	3.17	4.87	6.67	8.53	10.43	12.34	14.28	16.22	18.16	20.11	22.07	24.02	25.97	27.93	29.88	31.84	33.79	32.9
79.1-81.0	96.2- 98.8	1.64	3.16	4.85	6.65	8.51	10.41	12.33	14.26	16.21	18.16	20.11	22.07	24.02	25.98	27.94	29.90	31.85	33.81	32.9

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

Table 44. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	0.30	0.47	0.59	0.69	0.78	0.86	0.93	1.01	1.09	1.17	1.25	1.32	1.40	1.48	1.56	1.64	1.72	1.80	12.1
13.1-15.0	14.5- 16.6	0.76	1.37	2.01	2.67	3.34	4.02	4.71	5.40	6.09	6.79	7.50	8.20	8.91	9.61	10.32	11.03	11.74	12.45	13.9
15.1-17.0	16.8- 18.9	1.06	1.95	2.89	3.87	4.87	5.89	6.91	7.94	8.98	10.02	11.07	12.11	13.16	14.21	15.26	16.31	17.37	18.42	15.6
17.1-19.0	19.0- 21.2	1.26	2.31	3.44	4.61	5.80	7.00	8.22	9.44	10.66	11.89	13.13	14.36	15.60	16.84	18.08	19.32	20.56	21.80	17.1
19.1-21.0	21.3- 23.5	1.39	2.56	3.81	5.10	6.42	7.75	9.09	10.44	11.79	13.15	14.51	15.87	17.23	18.60	19.96	21.33	22.70	24.07	18.6
21.1-23.0	23.6- 25.8	1.49	2.74	4.08	5.46	6.87	8.29	9.72	11.16	12.61	14.06	15.51	16.96	18.41	19.87	21.33	22.79	24.25	25.71	19.9
23.1-25.0	25.9- 28.1	1.56	2.87	4.28	5.73	7.20	8.69	10.20	11.71	13.22	14.74	16.26	17.79	19.31	20.84	22.37	23.90	25.42	26.96	21.1
25.1-27.0	28.2- 30.4	1.61	2.97	4.43	5.93	7.46	9.01	10.57	12.13	13.70	15.28	16.85	18.43	20.02	21.60	23.18	24.77	26.35	27.94	22.3
27.1-29.0	30.5- 32.7	1.65	3.04	4.54	6.09	7.66	9.25	10.86	12.47	14.08	15.70	17.33	18.95	20.58	22.21	23.84	25.47	27.10	28.73	23.3
29.1-31.0	32.9- 35.1	1.67	3.10	4.63	6.21	7.82	9.45	11.09	12.74	14.40	16.05	17.71	19.38	21.04	22.71	24.37	26.04	27.71	29.38	24.3
31.1-33.0	35.2- 37.5	1.69	3.14	4.70	6.31	7.95	9.61	11.28	12.96	14.65	16.34	18.03	19.73	21.42	23.12	24.82	26.52	28.22	29.92	25.1
33.1-35.0	37.6- 39.9	1.71	3.18	4.75	6.39	8.06	9.74	11.44	13.15	14.86	16.58	18.30	20.02	21.75	23.47	25.20	26.92	28.65	30.38	25.9
35.1-37.0	40.0- 42.3	1.72	3.20	4.80	6.45	8.14	9.85	11.57	13.30	15.04	16.78	18.52	20.27	22.02	23.77	25.52	27.27	29.02	30.77	26.6
37.1-39.0	42.4- 44.7	1.72	3.22	4.83	6.50	8.21	9.94	11.68	13.43	15.19	16.95	18.71	20.48	22.25	24.02	25.79	27.56	29.33	31.10	27.3
39.1-41.0	44.8- 47.1	1.73	3.23	4.85	6.54	8.27	10.01	11.77	13.54	15.32	17.10	18.88	20.66	22.45	24.24	26.02	27.81	29.60	31.39	27.9
41.1-43.0	47.2- 49.6	1.73	3.24	4.87	6.57	8.31	10.07	11.85	13.63	15.42	17.22	19.02	20.82	22.62	24.42	26.23	28.03	29.84	31.65	28.4
43.1-45.0	49.7- 52.0	1.73	3.24	4.88	6.60	8.35	10.12	11.91	13.71	15.52	17.33	19.14	20.95	22.77	24.59	26.41	28.22	30.05	31.87	28.9
45.1-47.0	52.1- 54.5	1.72	3.24	4.89	6.62	8.38	10.16	11.97	13.78	15.59	17.42	19.24	21.07	22.90	24.73	26.56	28.39	30.23	32.06	29.4
47.1-49.0	54.6- 57.0	1.72	3.24	4.90	6.63	8.40	10.20	12.01	13.83	15.66	17.49	19.33	21.17	23.01	24.85	26.70	28.54	30.39	32.23	29.8
49.1-51.0	57.1- 59.5	1.72	3.24	4.90	6.64	8.42	10.22	12.05	13.88	15.72	17.56	19.41	21.26	23.11	24.96	26.82	28.67	30.53	32.38	30.2
51.1-53.0	59.6- 62.0	1.71	3.23	4.90	6.64	8.43	10.24	12.07	13.92	15.77	17.62	19.48	21.34	23.20	25.06	26.92	28.79	30.65	32.51	30.5
53.1-55.0	62.1- 64.5	1.70	3.22	4.89	6.64	8.44	10.26	12.10	13.95	15.81	17.67	19.53	21.40	23.27	25.14	27.01	28.89	30.76	32.63	30.8
55.1-57.0	64.7- 67.1	1.70	3.22	4.89	6.64	8.44	10.27	12.12	13.97	15.84	17.71	19.58	21.46	23.34	25.22	27.10	28.98	30.86	32.74	31.1
57.1-59.0	67.2- 69.6	1.69	3.21	4.88	6.64	8.44	10.28	12.13	13.99	15.87	17.74	19.63	21.51	23.40	25.28	27.17	29.06	30.95	32.83	31.3
59.1-61.0	69.8- 72.2	1.68	3.20	4.87	6.63	8.44	10.28	12.14	14.01	15.89	17.77	19.66	21.55	23.45	25.34	27.23	29.13	31.02	32.92	31.6
61.1-63.0	72.3- 74.8	1.67	3.19	4.86	6.62	8.44	10.28	12.15	14.02	15.91	17.80	19.69	21.59	23.49	25.39	27.29	29.19	31.09	32.99	31.8
63.1-65.0	74.9- 77.4	1.66	3.17	4.85	6.61	8.43	10.28	12.15	14.03	15.92	17.82	19.72	21.62	23.53	25.43	27.34	29.25	31.15	33.06	32.0
65.1-67.0	77.5- 80.0	1.66	3.16	4.83	6.60	8.42	10.27	12.15	14.04	15.93	17.83	19.74	21.65	23.56	25.47	27.38	29.30	31.21	33.12	32.1
67.1-69.0	80.2- 82.7	1.65	3.15	4.82	6.59	8.41	10.27	12.15	14.04	15.94	17.85	19.76	21.67	23.59	25.50	27.42	29.34	31.26	33.18	32.3
69.1-71.0	82.8- 85.3	1.64	3.14	4.81	6.57	8.40	10.26	12.14	14.04	15.94	17.85	19.77	21.69	23.61	25.53	27.45	29.38	31.30	33.22	32.4
71.1-73.0	85.4- 88.0	1.63	3.13	4.79	6.56	8.39	10.25	12.13	14.03	15.94	17.86	19.78	21.70	23.63	25.56	27.48	29.41	31.34	33.27	32.5
73.1-75.0	88.1- 90.7	1.62	3.11	4.78	6.54	8.37	10.24	12.13	14.03	15.94	17.86	19.79	21.72	23.64	25.58	27.51	29.44	31.37	33.30	32.7
75.1-77.0	90.8- 93.3	1.61	3.10	4.76	6.53	8.36	10.22	12.12	14.02	15.94	17.86	19.79	21.72	23.66	25.59	27.53	29.46	31.40	33.34	32.8
77.1-79.0	93.5- 96.1	1.60	3.08	4.75	6.51	8.34	10.21	12.10	14.01	15.93	17.86	19.79	21.73	23.67	25.61	27.54	29.48	31.42	33.36	32.9
79.1-81.0	96.2- 98.8	1.60	3.07	4.73	6.49	8.32	10.19	12.09	14.00	15.93	17.86	19.79	21.73	23.67	25.62	27.56	29.50	31.45	33.39	32.9

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

Table 45. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	0.29	0.44	0.53	0.60	0.67	0.72	0.78	0.83	0.89	0.94	1.00	1.06	1.12	1.18	1.24	1.30	1.37	1.43	13.9
15.1-17.0	16.8- 18.9	0.65	1.16	1.68	2.20	2.74	3.27	3.81	4.36	4.90	5.45	6.00	6.55	7.11	7.66	8.22	8.77	9.33	9.88	15.6
17.1-19.0	19.0- 21.2	0.91	1.67	2.48	3.33	4.20	5.09	5.99	6.90	7.81	8.73	9.65	10.58	11.51	12.44	13.37	14.31	15.24	16.18	17.1
19.1-21.0	21.3- 23.5	1.09	2.02	3.02	4.06	5.13	6.22	7.33	8.44	9.56	10.68	11.81	12.94	14.08	15.21	16.35	17.49	18.63	19.77	18.6
21.1-23.0	23.6- 25.8	1.22	2.26	3.39	4.57	5.78	7.00	8.24	9.49	10.74	12.00	13.27	14.54	15.81	17.08	18.35	19.62	20.90	22.18	19.9
23.1-25.0	25.9- 28.1	1.31	2.44	3.67	4.94	6.24	7.57	8.91	10.26	11.61	12.97	14.33	15.70	17.07	18.44	19.81	21.18	22.56	23.94	21.1
25.1-27.0	28.2- 30.4	1.39	2.58	3.87	5.22	6.60	8.00	9.42	10.84	12.27	13.71	15.15	16.59	18.03	19.48	20.93	22.38	23.83	25.28	22.3
27.1-29.0	30.5- 32.7	1.44	2.68	4.03	5.44	6.88	8.34	9.81	11.30	12.79	14.29	15.79	17.29	18.80	20.31	21.82	23.33	24.84	26.35	23.3
29.1-31.0	32.9- 35.1	1.48	2.77	4.16	5.61	7.10	8.61	10.13	11.67	13.21	14.76	16.31	17.86	19.42	20.97	22.53	24.10	25.66	27.22	24.3
31.1-33.0	35.2- 37.5	1.51	2.83	4.26	5.75	7.28	8.83	10.39	11.97	13.55	15.14	16.73	18.33	19.93	21.53	23.13	24.73	26.33	27.94	25.1
33.1-35.0	37.6- 39.9	1.54	2.88	4.34	5.86	7.42	9.01	10.61	12.22	13.84	15.46	17.09	18.72	20.35	21.99	23.62	25.26	26.90	28.54	25.9
35.1-37.0	40.0- 42.3	1.55	2.92	4.40	5.95	7.54	9.15	10.78	12.42	14.07	15.73	17.38	19.05	20.71	22.38	24.04	25.71	27.38	29.05	26.6
37.1-39.0	42.4- 44.7	1.57	2.95	4.45	6.02	7.64	9.28	10.93	12.60	14.27	15.95	17.64	19.33	21.02	22.71	24.40	26.10	27.79	29.49	27.3
39.1-41.0	44.8- 47.1	1.58	2.97	4.49	6.08	7.72	9.38	11.06	12.75	14.44	16.15	17.85	19.57	21.28	22.99	24.71	26.43	28.15	29.87	27.9
41.1-43.0	47.2- 49.6	1.58	2.99	4.52	6.13	7.79	9.47	11.16	12.87	14.59	16.31	18.04	19.77	21.51	23.24	24.98	26.72	28.46	30.20	28.4
43.1-45.0	49.7- 52.0	1.59	3.00	4.55	6.17	7.84	9.54	11.25	12.98	14.72	16.46	18.20	19.95	21.70	23.46	25.21	26.97	28.73	30.49	28.9
45.1-47.0	52.1- 54.5	1.59	3.01	4.57	6.20	7.89	9.60	11.33	13.07	14.82	16.58	18.34	20.11	21.88	23.65	25.42	27.19	28.97	30.74	29.4
47.1-49.0	54.6- 57.0	1.59	3.01	4.58	6.23	7.92	9.65	11.39	13.15	14.92	16.69	18.46	20.24	22.03	23.81	25.60	27.39	29.18	30.97	29.8
49.1-51.0	57.1- 59.5	1.59	3.02	4.59	6.25	7.95	9.69	11.45	13.22	14.99	16.78	18.57	20.36	22.16	23.96	25.76	27.56	29.36	31.17	30.2
51.1-53.0	59.6- 62.0	1.59	3.02	4.60	6.26	7.98	9.73	11.49	13.27	15.06	16.86	18.66	20.47	22.28	24.09	25.90	27.71	29.53	31.34	30.5
53.1-55.0	62.1- 64.5	1.59	3.02	4.60	6.27	8.00	9.75	11.53	13.32	15.12	16.93	18.74	20.56	22.38	24.20	26.02	27.85	29.67	31.50	30.8
55.1-57.0	64.7- 67.1	1.58	3.01	4.60	6.28	8.01	9.78	11.56	13.36	15.17	16.99	18.81	20.64	22.47	24.30	26.13	27.97	29.80	31.64	31.1
57.1-59.0	67.2- 69.6	1.58	3.01	4.60	6.28	8.02	9.79	11.59	13.40	15.22	17.04	18.88	20.71	22.55	24.39	26.23	28.08	29.92	31.77	31.3
59.1-61.0	69.8- 72.2	1.57	3.00	4.60	6.28	8.03	9.81	11.61	13.43	15.25	17.09	18.93	20.77	22.62	24.47	26.32	28.17	30.03	31.88	31.6
61.1-63.0	72.3- 74.8	1.57	3.00	4.59	6.28	8.03	9.82	11.63	13.45	15.28	17.13	18.98	20.83	22.68	24.54	26.40	28.26	30.12	31.98	31.8
63.1-65.0	74.9- 77.4	1.56	2.99	4.59	6.28	8.03	9.82	11.64	13.47	15.31	17.16	19.02	20.88	22.74	24.60	26.47	28.34	30.20	32.07	32.0
65.1-67.0	77.5- 80.0	1.56	2.98	4.58	6.27	8.03	9.83	11.65	13.48	15.33	17.19	19.05	20.92	22.79	24.66	26.53	28.40	30.28	32.16	32.1
67.1-69.0	80.2- 82.7	1.55	2.97	4.57	6.27	8.03	9.83	11.65	13.49	15.35	17.21	19.08	20.95	22.83	24.71	26.59	28.47	30.35	32.23	32.3
69.1-71.0	82.8- 85.3	1.54	2.96	4.56	6.26	8.02	9.83	11.65	13.50	15.36	17.23	19.10	20.98	22.86	24.75	26.63	28.52	30.41	32.30	32.4
71.1-73.0	85.4- 88.0	1.54	2.95	4.55	6.25	8.01	9.82	11.66	13.51	15.37	17.25	19.12	21.01	22.90	24.79	26.68	28.57	30.46	32.36	32.5
73.1-75.0	88.1- 90.7	1.53	2.94	4.54	6.24	8.01	9.82	11.65	13.51	15.38	17.26	19.14	21.03	22.92	24.82	26.71	28.61	30.51	32.41	32.7
75.1-77.0	90.8- 93.3	1.52	2.93	4.52	6.23	7.99	9.81	11.65	13.51	15.38	17.27	19.15	21.05	22.95	24.85	26.75	28.65	30.55	32.46	32.8
77.1-79.0	93.5- 96.1	1.52	2.92	4.51	6.21	7.98	9.80	11.64	13.51	15.38	17.27	19.17	21.06	22.97	24.87	26.78	28.68	30.59	32.50	32.9
79.1-81.0	96.2- 98.8	1.51	2.91	4.50	6.20	7.97	9.79	11.64	13.50	15.38	17.27	19.17	21.08	22.98	24.89	26.80	28.71	30.63	32.54	32.9

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

Table 46. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	16.8- 18.9	0.29	0.43	0.51	0.57	0.61	0.65	0.69	0.73	0.78	0.82	0.87	0.91	0.96	1.01	1.06	1.11	1.16	1.21	15.6
17.1-19.0	19.0- 21.2	0.58	1.01	1.44	1.87	2.29	2.71	3.13	3.55	3.96	4.38	4.79	5.21	5.62	6.03	6.44	6.86	7.27	7.68	17.1
19.1-21.0	21.3- 23.5	0.80	1.46	2.16	2.89	3.65	4.42	5.20	5.99	6.79	7.59	8.40	9.21	10.03	10.85	11.67	12.49	13.31	14.14	18.6
21.1-23.0	23.6- 25.8	0.96	1.78	2.67	3.60	4.56	5.54	6.54	7.55	8.57	9.59	10.62	11.65	12.69	13.73	14.77	15.81	16.86	17.90	19.9
23.1-25.0	25.9- 28.1	1.08	2.02	3.03	4.10	5.21	6.34	7.48	8.63	9.80	10.96	12.14	13.32	14.50	15.68	16.87	18.06	19.25	20.44	21.1
25.1-27.0	28.2- 30.4	1.17	2.20	3.31	4.48	5.69	6.92	8.17	9.43	10.70	11.97	13.26	14.54	15.83	17.12	18.41	19.70	21.00	22.29	22.3
27.1-29.0	30.5- 32.7	1.25	2.33	3.52	4.77	6.06	7.37	8.70	10.05	11.40	12.75	14.11	15.48	16.85	18.22	19.60	20.97	22.35	23.73	23.3
29.1-31.0	32.9- 35.1	1.30	2.44	3.69	5.00	6.35	7.73	9.12	10.53	11.95	13.37	14.80	16.23	17.66	19.10	20.54	21.98	23.43	24.87	24.3
31.1-33.0	35.2- 37.5	1.34	2.52	3.82	5.18	6.59	8.02	9.47	10.93	12.40	13.87	15.35	16.84	18.33	19.82	21.31	22.81	24.30	25.80	25.1
33.1-35.0	37.6- 39.9	1.38	2.59	3.93	5.33	6.78	8.25	9.74	11.25	12.76	14.29	15.81	17.34	18.88	20.41	21.95	23.49	25.03	26.58	25.9
35.1-37.0	40.0- 42.3	1.40	2.65	4.01	5.45	6.94	8.45	9.98	11.52	13.07	14.63	16.20	17.77	19.34	20.91	22.49	24.07	25.65	27.23	26.6
37.1-39.0	42.4- 44.7	1.42	2.69	4.08	5.55	7.07	8.61	10.17	11.75	13.33	14.92	16.52	18.12	19.73	21.34	22.95	24.56	26.17	27.79	27.3
39.1-41.0	44.8- 47.1	1.44	2.72	4.14	5.63	7.17	8.74	10.33	11.94	13.55	15.17	16.80	18.43	20.07	21.70	23.34	24.98	26.63	28.27	27.9
41.1-43.0	47.2- 49.6	1.45	2.75	4.19	5.70	7.27	8.86	10.47	12.10	13.74	15.39	17.04	18.70	20.36	22.02	23.68	25.35	27.02	28.69	28.4
43.1-45.0	49.7- 52.0	1.46	2.77	4.23	5.76	7.34	8.96	10.59	12.24	13.90	15.57	17.25	18.93	20.61	22.29	23.98	25.67	27.36	29.05	28.9
45.1-47.0	52.1- 54.5	1.47	2.79	4.26	5.81	7.41	9.04	10.69	12.36	14.04	15.73	17.43	19.13	20.83	22.53	24.24	25.95	27.66	29.37	29.4
47.1-49.0	54.6- 57.0	1.47	2.80	4.28	5.84	7.46	9.11	10.78	12.47	14.17	15.87	17.58	19.30	21.02	22.74	24.47	26.20	27.93	29.66	29.8
49.1-51.0	57.1- 59.5	1.48	2.81	4.30	5.88	7.50	9.17	10.85	12.56	14.27	15.99	17.72	19.45	21.19	22.93	24.67	26.42	28.16	29.91	30.2
51.1-53.0	59.6- 62.0	1.48	2.82	4.32	5.90	7.54	9.22	10.92	12.63	14.36	16.10	17.84	19.59	21.34	23.10	24.85	26.61	28.37	30.13	30.5
53.1-55.0	62.1- 64.5	1.48	2.83	4.33	5.92	7.57	9.26	10.97	12.70	14.44	16.19	17.95	19.71	21.47	23.24	25.01	26.78	28.56	30.33	30.8
55.1-57.0	64.7- 67.1	1.48	2.83	4.34	5.94	7.60	9.30	11.02	12.76	14.51	16.27	18.04	19.82	21.59	23.37	25.16	26.94	28.73	30.51	31.1
57.1-59.0	67.2- 69.6	1.48	2.83	4.34	5.95	7.62	9.32	11.06	12.81	14.57	16.35	18.12	19.91	21.70	23.49	25.28	27.08	28.88	30.67	31.3
59.1-61.0	69.8- 72.2	1.48	2.83	4.34	5.96	7.63	9.35	11.09	12.85	14.62	16.41	18.20	19.99	21.79	23.59	25.40	27.20	29.01	30.82	31.6
61.1-63.0	72.3- 74.8	1.47	2.83	4.34	5.96	7.65	9.37	11.12	12.89	14.67	16.46	18.26	20.06	21.87	23.68	25.50	27.31	29.13	30.95	31.8
63.1-65.0	74.9- 77.4	1.47	2.82	4.34	5.97	7.65	9.38	11.14	12.92	14.71	16.51	18.32	20.13	21.95	23.77	25.59	27.41	29.24	31.07	32.0
65.1-67.0	77.5- 80.0	1.47	2.82	4.34	5.97	7.66	9.40	11.16	12.94	14.74	16.55	18.37	20.19	22.01	23.84	25.67	27.50	29.34	31.18	32.1
67.1-69.0	80.2- 82.7	1.46	2.81	4.34	5.97	7.66	9.40	11.17	12.97	14.77	16.59	18.41	20.24	22.07	23.91	25.74	27.59	29.43	31.27	32.3
69.1-71.0	82.8- 85.3	1.46	2.81	4.33	5.96	7.66	9.41	11.19	12.98	14.79	16.62	18.45	20.28	22.12	23.96	25.81	27.66	29.51	31.36	32.4
71.1-73.0	85.4- 88.0	1.45	2.80	4.32	5.96	7.66	9.41	11.19	13.00	14.81	16.64	18.48	20.32	22.17	24.02	25.87	27.72	29.58	31.44	32.5
73.1-75.0	88.1- 90.7	1.45	2.79	4.32	5.95	7.66	9.41	11.20	13.01	14.83	16.66	18.51	20.35	22.21	24.06	25.92	27.78	29.65	31.51	32.7
75.1-77.0	90.8- 93.3	1.44	2.79	4.31	5.94	7.65	9.41	11.20	13.01	14.84	16.68	18.53	20.38	22.24	24.10	25.97	27.84	29.70	31.57	32.8
77.1-79.0	93.5- 96.1	1.44	2.78	4.30	5.94	7.65	9.41	11.20	13.02	14.85	16.70	18.55	20.41	22.27	24.14	26.01	27.88	29.76	31.63	32.9
79.1-81.0	96.2- 98.8	1.43	2.77	4.29	5.93	7.64	9.40	11.20	13.02	14.86	16.71	18.56	20.43	22.30	24.17	26.05	27.92	29.80	31.68	32.9

11.0 PROVINCIAL MERCHANTABLE LENGTH TABLES

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

Table 47. Merchantable length (m) from 0.30 m stump height to 5.0 cm top dib

SPECIES: WHITE SPRUCE
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	5.3- 7.4	0.67	1.18	1.68	2.19	2.70	3.21	3.72	4.23	4.74	5.25	5.76	6.27	6.78	7.29	7.80	8.31	8.82	9.33	6.4
7.1- 9.0	7.6- 9.7	1.63	2.77	3.93	5.09	6.25	7.41	8.58	9.75	10.91	12.08	13.25	14.42	15.59	16.76	17.93	19.09	20.26	21.43	8.3
9.1-11.0	9.9- 12.0	2.03	3.42	4.82	6.23	7.64	9.06	10.47	11.89	13.31	14.72	16.14	17.56	18.98	20.39	21.81	23.23	24.65	26.07	10.1
11.1-13.0	12.2- 14.4	2.25	3.77	5.32	6.86	8.42	9.97	11.53	13.08	14.64	16.20	17.75	19.31	20.87	22.43	23.98	25.54	27.10	28.66	11.9
13.1-15.0	14.5- 16.7	2.38	3.99	5.62	7.26	8.91	10.55	12.20	13.84	15.49	17.14	18.79	20.43	22.08	23.73	25.38	27.03	28.68	30.32	13.6
15.1-17.0	16.8- 19.0	2.46	4.14	5.83	7.53	9.24	10.95	12.66	14.37	16.08	17.79	19.50	21.21	22.92	24.63	26.35	28.06	29.77	31.48	15.1
17.1-19.0	19.1- 21.3	2.51	4.23	5.98	7.73	9.48	11.23	12.99	14.75	16.50	18.26	20.02	21.78	23.54	25.29	27.05	28.81	30.57	32.33	16.6
19.1-21.0	21.4- 23.6	2.55	4.30	6.08	7.87	9.66	11.45	13.24	15.03	16.83	18.62	20.41	22.21	24.00	25.79	27.59	29.38	31.17	32.97	18.0
21.1-23.0	23.7- 25.9	2.57	4.35	6.16	7.97	9.79	11.61	13.43	15.25	17.07	18.89	20.72	22.54	24.36	26.18	28.00	29.82	31.64	33.47	19.2
23.1-25.0	26.0- 28.3	2.58	4.39	6.22	8.05	9.90	11.74	13.58	15.43	17.27	19.11	20.96	22.80	24.64	26.49	28.33	30.18	32.02	33.86	20.4
25.1-27.0	28.4- 30.6	2.59	4.41	6.26	8.12	9.98	11.84	13.70	15.56	17.43	19.29	21.15	23.01	24.88	26.74	28.60	30.46	32.32	34.19	21.5
27.1-29.0	30.7- 32.9	2.59	4.43	6.29	8.16	10.04	11.92	13.80	15.68	17.55	19.43	21.31	23.19	25.07	26.94	28.82	30.70	32.57	34.45	22.5
29.1-31.0	33.0- 35.3	2.59	4.44	6.31	8.20	10.09	11.98	13.87	15.77	17.66	19.55	21.44	23.33	25.22	27.11	29.00	30.89	32.78	34.67	23.4
31.1-33.0	35.4- 37.6	2.58	4.44	6.33	8.23	10.13	12.03	13.94	15.84	17.75	19.65	21.55	23.45	25.35	27.26	29.16	31.06	32.96	34.86	24.3
33.1-35.0	37.7- 39.9	2.57	4.44	6.34	8.25	10.16	12.08	13.99	15.90	17.82	19.73	21.64	23.55	25.47	27.38	29.29	31.20	33.11	35.02	25.0
35.1-37.0	40.1- 42.3	2.56	4.44	6.34	8.26	10.19	12.11	14.03	15.96	17.88	19.80	21.72	23.64	25.56	27.48	29.40	31.32	33.24	35.15	25.8
37.1-39.0	42.4- 44.6	2.55	4.43	6.35	8.27	10.21	12.14	14.07	16.00	17.93	19.86	21.79	23.71	25.64	27.57	29.49	31.42	33.35	35.27	26.4
39.1-41.0	44.7- 47.0	2.54	4.42	6.35	8.28	10.22	12.16	14.10	16.03	17.97	19.91	21.84	23.78	25.71	27.64	29.58	31.51	33.44	35.37	27.0
41.1-43.0	47.1- 49.3	2.53	4.41	6.34	8.28	10.23	12.17	14.12	16.06	18.01	19.95	21.89	23.83	25.77	27.71	29.65	31.59	33.52	35.46	27.6
43.1-45.0	49.5- 51.7	2.52	4.40	6.34	8.28	10.23	12.19	14.14	16.09	18.04	19.98	21.93	23.88	25.82	27.77	29.71	31.65	33.60	35.54	28.1
45.1-47.0	51.8- 54.1	2.50	4.39	6.33	8.28	10.24	12.19	14.15	16.11	18.06	20.01	21.97	23.92	25.87	27.82	29.76	31.71	33.66	35.61	28.5
47.1-49.0	54.2- 56.4	2.49	4.38	6.32	8.28	10.24	12.20	14.16	16.12	18.08	20.04	22.00	23.95	25.91	27.86	29.81	31.76	33.72	35.67	29.0
49.1-51.0	56.5- 58.8	2.47	4.36	6.31	8.27	10.24	12.20	14.17	16.13	18.10	20.06	22.02	23.98	25.94	27.90	29.85	31.81	33.77	35.72	29.4
51.1-53.0	58.9- 61.2	2.46	4.35	6.29	8.26	10.23	12.20	14.17	16.14	18.11	20.08	22.04	24.01	25.97	27.93	29.89	31.85	33.81	35.77	29.7
53.1-55.0	61.3- 63.5	2.44	4.33	6.28	8.25	10.23	12.20	14.18	16.15	18.12	20.09	22.06	24.03	25.99	27.96	29.92	31.89	33.85	35.81	30.0
55.1-57.0	63.7- 65.9	2.43	4.32	6.27	8.24	10.22	12.20	14.18	16.15	18.13	20.10	22.08	24.05	26.02	27.98	29.95	31.92	33.88	35.85	30.3
57.1-59.0	66.0- 68.3	2.41	4.30	6.25	8.23	10.21	12.19	14.18	16.16	18.14	20.11	22.09	24.06	26.03	28.00	29.97	31.94	33.91	35.88	30.6
59.1-61.0	68.4- 70.7	2.39	4.28	6.24	8.22	10.20	12.19	14.17	16.16	18.14	20.12	22.10	24.07	26.05	28.02	30.00	31.97	33.94	35.91	30.9
61.1-63.0	70.8- 73.1	2.38	4.26	6.22	8.20	10.19	12.18	14.17	16.16	18.14	20.12	22.11	24.08	26.06	28.04	30.01	31.99	33.96	35.93	31.1
63.1-65.0	73.2- 75.5	2.36	4.25	6.20	8.19	10.18	12.17	14.16	16.15	18.14	20.13	22.11	24.09	26.07	28.05	30.03	32.01	33.98	35.96	31.3
65.1-67.0	75.6- 77.9	2.35	4.23	6.19	8.17	10.17	12.16	14.16	16.15	18.14	20.13	22.12	24.10	26.08	28.06	30.04	32.02	34.00	35.98	31.5
67.1-69.0	78.0- 80.3	2.33	4.21	6.17	8.16	10.15	12.15	14.15	16.14	18.14	20.13	22.12	24.10	26.09	28.07	30.06	32.04	34.02	36.00	31.6
69.1-71.0	80.4- 82.7	2.32	4.19	6.15	8.14	10.14	12.14	14.14	16.14	18.13	20.13	22.12	24.11	26.10	28.08	30.07	32.05	34.03	36.01	31.8
71.1-73.0	82.8- 85.1	2.30	4.17	6.13	8.12	10.12	12.13	14.13	16.13	18.13	20.12	22.12	24.11	26.10	28.09	30.07	32.06	34.04	36.02	31.9
73.1-75.0	85.2- 87.5	2.29	4.16	6.11	8.10	10.11	12.11	14.12	16.12	18.12	20.12	22.12	24.11	26.10	28.09	30.08	32.07	34.05	36.04	32.1
75.1-77.0	87.6- 89.9	2.27	4.14	6.09	8.09	10.09	12.10	14.11	16.11	18.11	20.12	22.11	24.11	26.10	28.09	30.08	32.07	34.06	36.05	32.2
77.1-79.0	90.0- 92.3	2.26	4.12	6.08	8.07	10.07	12.08	14.09	16.10	18.11	20.11	22.11	24.11	26.10	28.10	30.09	32.08	34.07	36.06	32.3
79.1-81.0	92.5- 94.8	2.24	4.10	6.06	8.05	10.06	12.07	14.08	16.09	18.10	20.10	22.10	24.10	26.10	28.10	30.09	32.08	34.07	36.06	32.4

Table 48. Merchantable length (m) from 0.30 m stump height to 7.0 cm top dib

SPECIES: WHITE SPRUCE
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	7.6- 9.7	0.43	0.75	1.05	1.35	1.64	1.93	2.22	2.51	2.80	3.08	3.37	3.66	3.94	4.23	4.51	4.79	5.08	5.36	8.3
9.1-11.0	9.9- 12.0	1.23	2.15	3.10	4.05	5.01	5.98	6.94	7.91	8.88	9.85	10.82	11.79	12.76	13.73	14.70	15.67	16.64	17.62	10.1
11.1-13.0	12.2- 14.4	1.64	2.83	4.05	5.28	6.52	7.76	9.01	10.25	11.50	12.74	13.99	15.24	16.49	17.74	18.99	20.24	21.49	22.74	11.9
13.1-15.0	14.5- 16.7	1.87	3.22	4.60	5.99	7.39	8.79	10.20	11.61	13.01	14.42	15.83	17.24	18.65	20.06	21.47	22.88	24.29	25.70	13.6
15.1-17.0	16.8- 19.0	2.02	3.47	4.96	6.46	7.97	9.47	10.99	12.50	14.01	15.53	17.05	18.56	20.08	21.60	23.11	24.63	26.15	27.67	15.1
17.1-19.0	19.1- 21.3	2.12	3.65	5.21	6.79	8.37	9.95	11.54	13.13	14.73	16.32	17.91	19.51	21.10	22.69	24.29	25.88	27.48	29.07	16.6
19.1-21.0	21.4- 23.6	2.19	3.77	5.39	7.02	8.66	10.31	11.96	13.61	15.26	16.91	18.56	20.21	21.86	23.51	25.17	26.82	28.47	30.13	18.0
21.1-23.0	23.7- 25.9	2.24	3.86	5.53	7.20	8.89	10.58	12.27	13.97	15.66	17.36	19.06	20.75	22.45	24.15	25.85	27.55	29.24	30.94	19.2
23.1-25.0	26.0- 28.3	2.27	3.93	5.63	7.34	9.07	10.79	12.52	14.25	15.98	17.72	19.45	21.18	22.92	24.65	26.39	28.12	29.86	31.59	20.4
25.1-27.0	28.4- 30.6	2.29	3.98	5.71	7.45	9.20	10.96	12.72	14.48	16.24	18.00	19.77	21.53	23.29	25.06	26.82	28.59	30.35	32.12	21.5
27.1-29.0	30.7- 32.9	2.31	4.02	5.77	7.54	9.31	11.10	12.88	14.67	16.45	18.24	20.03	21.82	23.60	25.39	27.18	28.97	30.76	32.55	22.5
29.1-31.0	33.0- 35.3	2.32	4.04	5.81	7.60	9.40	11.21	13.01	14.82	16.63	18.43	20.24	22.05	23.86	25.67	27.48	29.29	31.10	32.91	23.4
31.1-33.0	35.4- 37.6	2.32	4.06	5.85	7.66	9.47	11.30	13.12	14.94	16.77	18.60	20.42	22.25	24.08	25.91	27.73	29.56	31.39	33.21	24.3
33.1-35.0	37.7- 39.9	2.32	4.07	5.88	7.70	9.53	11.37	13.21	15.05	16.89	18.73	20.58	22.42	24.26	26.10	27.95	29.79	31.63	33.47	25.0
35.1-37.0	40.1- 42.3	2.32	4.08	5.90	7.73	9.58	11.43	13.28	15.14	16.99	18.85	20.71	22.56	24.42	26.27	28.13	29.99	31.84	33.70	25.8
37.1-39.0	42.4- 44.6	2.32	4.09	5.91	7.76	9.62	11.48	13.35	15.21	17.08	18.95	20.82	22.69	24.55	26.42	28.29	30.16	32.02	33.89	26.4
39.1-41.0	44.7- 47.0	2.31	4.09	5.92	7.78	9.65	11.52	13.40	15.28	17.16	19.04	20.91	22.79	24.67	26.55	28.43	30.30	32.18	34.06	27.0
41.1-43.0	47.1- 49.3	2.30	4.09	5.93	7.80	9.68	11.56	13.45	15.33	17.22	19.11	21.00	22.88	24.77	26.66	28.55	30.43	32.32	34.21	27.6
43.1-45.0	49.5- 51.7	2.29	4.08	5.93	7.81	9.70	11.59	13.48	15.38	17.28	19.17	21.07	22.96	24.86	26.76	28.65	30.55	32.44	34.34	28.1
45.1-47.0	51.8- 54.1	2.29	4.07	5.93	7.82	9.71	11.61	13.51	15.42	17.32	19.23	21.13	23.03	24.94	26.84	28.75	30.65	32.55	34.45	28.5
47.1-49.0	54.2- 56.4	2.28	4.07	5.93	7.82	9.72	11.63	13.54	15.45	17.36	19.27	21.18	23.10	25.01	26.92	28.83	30.74	32.65	34.56	29.0
49.1-51.0	56.5- 58.8	2.26	4.06	5.92	7.82	9.73	11.64	13.56	15.48	17.40	19.31	21.23	23.15	25.07	26.98	28.90	30.82	32.73	34.65	29.4
51.1-53.0	58.9- 61.2	2.25	4.05	5.92	7.82	9.73	11.65	13.58	15.50	17.42	19.35	21.27	23.20	25.12	27.04	28.96	30.88	32.81	34.73	29.7
53.1-55.0	61.3- 63.5	2.24	4.04	5.91	7.82	9.74	11.66	13.59	15.52	17.45	19.38	21.31	23.24	25.17	27.09	29.02	30.95	32.87	34.80	30.0
55.1-57.0	63.7- 65.9	2.23	4.02	5.90	7.81	9.73	11.67	13.60	15.53	17.47	19.40	21.34	23.27	25.21	27.14	29.07	31.00	32.93	34.86	30.3
57.1-59.0	66.0- 68.3	2.22	4.01	5.89	7.80	9.73	11.67	13.61	15.55	17.49	19.43	21.37	23.30	25.24	27.18	29.12	31.05	32.99	34.92	30.6
59.1-61.0	68.4- 70.7	2.20	4.00	5.88	7.80	9.73	11.67	13.61	15.56	17.50	19.44	21.39	23.33	25.27	27.21	29.16	31.10	33.04	34.97	30.9
61.1-63.0	70.8- 73.1	2.19	3.98	5.87	7.79	9.72	11.67	13.61	15.56	17.51	19.46	21.41	23.35	25.30	27.25	29.19	31.13	33.08	35.02	31.1
63.1-65.0	73.2- 75.5	2.18	3.97	5.85	7.77	9.72	11.66	13.61	15.57	17.52	19.47	21.42	23.37	25.32	27.27	29.22	31.17	33.12	35.06	31.3
65.1-67.0	75.6- 77.9	2.17	3.95	5.84	7.76	9.71	11.66	13.61	15.57	17.53	19.48	21.44	23.39	25.35	27.30	29.25	31.20	33.15	35.10	31.5
67.1-69.0	78.0- 80.3	2.15	3.94	5.82	7.75	9.70	11.65	13.61	15.57	17.53	19.49	21.45	23.41	25.36	27.32	29.27	31.23	33.18	35.14	31.6
69.1-71.0	80.4- 82.7	2.14	3.92	5.81	7.74	9.69	11.64	13.61	15.57	17.53	19.50	21.46	23.42	25.38	27.34	29.30	31.25	33.21	35.17	31.8
71.1-73.0	82.8- 85.1	2.13	3.91	5.79	7.72	9.67	11.64	13.60	15.57	17.53	19.50	21.46	23.43	25.39	27.35	29.31	31.27	33.23	35.19	31.9
73.1-75.0	85.2- 87.5	2.12	3.89	5.78	7.71	9.66	11.63	13.59	15.56	17.53	19.50	21.47	23.44	25.40	27.37	29.33	31.29	33.26	35.22	32.1
75.1-77.0	87.6- 89.9	2.10	3.87	5.76	7.69	9.65	11.61	13.58	15.56	17.53	19.50	21.47	23.44	25.41	27.38	29.35	31.31	33.28	35.24	32.2
77.1-79.0	90.0- 92.3	2.09	3.86	5.74	7.68	9.63	11.60	13.58	15.55	17.53	19.50	21.47	23.45	25.42	27.39	29.36	31.32	33.29	35.26	32.3
79.1-81.0	92.5- 94.8	2.08	3.84	5.72	7.66	9.62	11.59	13.57	15.54	17.52	19.50	21.47	23.45	25.42	27.40	29.37	31.34	33.31	35.28	32.4

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Table 49. Merchantable length (m) from 0.30 m stump height to 10.0 cm top dib

SPECIES: WHITE SPRUCE
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	12.2- 14.4	0.61	1.07	1.52	1.98	2.44	2.90	3.36	3.82	4.28	4.74	5.20	5.66	6.12	6.58	7.04	7.50	7.96	8.42	11.9
13.1-15.0	14.5- 16.7	1.06	1.90	2.76	3.64	4.53	5.43	6.33	7.23	8.14	9.05	9.96	10.87	11.78	12.69	13.60	14.51	15.43	16.34	13.6
15.1-17.0	16.8- 19.0	1.35	2.40	3.49	4.60	5.72	6.85	7.98	9.12	10.26	11.39	12.54	13.68	14.82	15.96	17.11	18.25	19.40	20.54	15.1
17.1-19.0	19.1- 21.3	1.54	2.73	3.97	5.22	6.49	7.77	9.05	10.34	11.62	12.91	14.20	15.49	16.78	18.08	19.37	20.66	21.95	23.25	16.6
19.1-21.0	21.4- 23.6	1.67	2.96	4.30	5.66	7.04	8.42	9.81	11.20	12.59	13.98	15.38	16.78	18.17	19.57	20.97	22.37	23.77	25.17	18.0
21.1-23.0	23.7- 25.9	1.76	3.13	4.55	5.99	7.44	8.90	10.37	11.84	13.31	14.79	16.26	17.74	19.22	20.69	22.17	23.65	25.13	26.61	19.2
23.1-25.0	26.0- 28.3	1.83	3.26	4.73	6.24	7.75	9.28	10.81	12.34	13.87	15.41	16.95	18.49	20.02	21.57	23.11	24.65	26.19	27.73	20.4
25.1-27.0	28.4- 30.6	1.89	3.35	4.88	6.43	8.00	9.57	11.15	12.73	14.32	15.90	17.49	19.08	20.67	22.26	23.85	25.44	27.04	28.63	21.5
27.1-29.0	30.7- 32.9	1.93	3.43	4.99	6.59	8.19	9.81	11.43	13.05	14.68	16.31	17.94	19.57	21.20	22.83	24.46	26.10	27.73	29.36	22.5
29.1-31.0	33.0- 35.3	1.96	3.49	5.09	6.71	8.35	10.00	11.66	13.32	14.98	16.64	18.30	19.97	21.64	23.30	24.97	26.64	28.31	29.97	23.4
31.1-33.0	35.4- 37.6	1.98	3.53	5.16	6.81	8.48	10.16	11.85	13.53	15.22	16.92	18.61	20.31	22.00	23.70	25.40	27.09	28.79	30.49	24.3
33.1-35.0	37.7- 39.9	1.99	3.57	5.22	6.90	8.59	10.29	12.00	13.72	15.43	17.15	18.87	20.59	22.31	24.04	25.76	27.48	29.20	30.93	25.0
35.1-37.0	40.1- 42.3	2.00	3.60	5.26	6.96	8.68	10.41	12.14	13.87	15.61	17.35	19.09	20.84	22.58	24.32	26.07	27.81	29.56	31.30	25.8
37.1-39.0	42.4- 44.6	2.01	3.62	5.30	7.02	8.75	10.50	12.25	14.01	15.76	17.52	19.29	21.05	22.81	24.57	26.34	28.10	29.87	31.63	26.4
39.1-41.0	44.7- 47.0	2.02	3.64	5.33	7.07	8.82	10.58	12.35	14.12	15.90	17.67	19.45	21.23	23.01	24.79	26.57	28.35	30.13	31.91	27.0
41.1-43.0	47.1- 49.3	2.02	3.65	5.36	7.10	8.87	10.65	12.43	14.22	16.01	17.80	19.59	21.39	23.18	24.98	26.78	28.57	30.37	32.16	27.6
43.1-45.0	49.5- 51.7	2.02	3.65	5.38	7.13	8.91	10.70	12.50	14.30	16.11	17.91	19.72	21.53	23.34	25.15	26.96	28.77	30.58	32.39	28.1
45.1-47.0	51.8- 54.1	2.02	3.66	5.39	7.16	8.95	10.75	12.56	14.38	16.19	18.01	19.83	21.65	23.47	25.29	27.11	28.94	30.76	32.58	28.5
47.1-49.0	54.2- 56.4	2.01	3.66	5.40	7.18	8.98	10.79	12.61	14.44	16.27	18.10	19.93	21.76	23.59	25.42	27.26	29.09	30.92	32.76	29.0
49.1-51.0	56.5- 58.8	2.01	3.66	5.41	7.19	9.01	10.83	12.66	14.49	16.33	18.17	20.01	21.85	23.70	25.54	27.38	29.23	31.07	32.91	29.4
51.1-53.0	58.9- 61.2	2.00	3.66	5.41	7.21	9.03	10.86	12.70	14.54	16.39	18.24	20.09	21.94	23.79	25.64	27.49	29.35	31.20	33.05	29.7
53.1-55.0	61.3- 63.5	2.00	3.65	5.41	7.21	9.04	10.88	12.73	14.58	16.44	18.30	20.15	22.01	23.87	25.73	27.60	29.46	31.32	33.18	30.0
55.1-57.0	63.7- 65.9	1.99	3.65	5.41	7.22	9.05	10.90	12.76	14.62	16.48	18.35	20.21	22.08	23.95	25.82	27.69	29.55	31.42	33.29	30.3
57.1-59.0	66.0- 68.3	1.98	3.64	5.41	7.22	9.06	10.92	12.78	14.65	16.52	18.39	20.27	22.14	24.02	25.89	27.77	29.64	31.52	33.39	30.6
59.1-61.0	68.4- 70.7	1.97	3.63	5.40	7.22	9.07	10.93	12.80	14.68	16.55	18.43	20.31	22.19	24.08	25.96	27.84	29.72	31.60	33.49	30.9
61.1-63.0	70.8- 73.1	1.97	3.63	5.40	7.22	9.07	10.94	12.82	14.70	16.58	18.47	20.35	22.24	24.13	26.02	27.90	29.79	31.68	33.57	31.1
63.1-65.0	73.2- 75.5	1.96	3.62	5.39	7.22	9.08	10.95	12.83	14.72	16.61	18.50	20.39	22.28	24.18	26.07	27.96	29.86	31.75	33.65	31.3
65.1-67.0	75.6- 77.9	1.95	3.61	5.38	7.21	9.08	10.95	12.84	14.73	16.63	18.52	20.42	22.32	24.22	26.12	28.02	29.92	31.82	33.71	31.5
67.1-69.0	78.0- 80.3	1.94	3.60	5.37	7.21	9.07	10.96	12.85	14.74	16.64	18.55	20.45	22.35	24.26	26.16	28.06	29.97	31.87	33.78	31.6
69.1-71.0	80.4- 82.7	1.93	3.59	5.36	7.20	9.07	10.96	12.85	14.75	16.66	18.56	20.47	22.38	24.29	26.20	28.11	30.02	31.93	33.83	31.8
71.1-73.0	82.8- 85.1	1.92	3.57	5.35	7.19	9.06	10.95	12.85	14.76	16.67	18.58	20.49	22.41	24.32	26.23	28.15	30.06	31.97	33.89	31.9
73.1-75.0	85.2- 87.5	1.91	3.56	5.34	7.18	9.06	10.95	12.86	14.77	16.68	18.59	20.51	22.43	24.35	26.26	28.18	30.10	32.02	33.93	32.1
75.1-77.0	87.6- 89.9	1.90	3.55	5.33	7.17	9.05	10.95	12.85	14.77	16.69	18.61	20.53	22.45	24.37	26.29	28.21	30.13	32.06	33.98	32.2
77.1-79.0	90.0- 92.3	1.89	3.54	5.32	7.16	9.04	10.94	12.85	14.77	16.69	18.61	20.54	22.46	24.39	26.32	28.24	30.17	32.09	34.02	32.3
79.1-81.0	92.5- 94.8	1.88	3.52	5.30	7.15	9.03	10.93	12.85	14.77	16.69	18.62	20.55	22.48	24.41	26.34	28.27	30.19	32.12	34.05	32.4

Table 50. Merchantable length (m) from 0.30 m stump height to 11.0 cm top dib

SPECIES: WHITE SPRUCE
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	12.2- 14.4	0.27	0.45	0.59	0.73	0.85	0.98	1.10	1.22	1.34	1.46	1.58	1.70	1.82	1.94	2.06	2.18	2.30	2.42	11.9
13.1-15.0	14.5- 16.7	0.78	1.39	2.02	2.65	3.30	3.95	4.60	5.25	5.91	6.56	7.22	7.88	8.54	9.20	9.86	10.53	11.19	11.85	13.6
15.1-17.0	16.8- 19.0	1.12	2.00	2.93	3.87	4.83	5.79	6.76	7.73	8.71	9.69	10.66	11.64	12.63	13.61	14.59	15.57	16.55	17.54	15.1
17.1-19.0	19.1- 21.3	1.34	2.40	3.51	4.64	5.79	6.94	8.09	9.26	10.42	11.59	12.75	13.92	15.09	16.26	17.43	18.60	19.77	20.95	16.6
19.1-21.0	21.4- 23.6	1.50	2.68	3.91	5.17	6.44	7.72	9.01	10.30	11.59	12.89	14.18	15.48	16.78	18.08	19.38	20.68	21.98	23.28	18.0
21.1-23.0	23.7- 25.9	1.61	2.88	4.21	5.56	6.93	8.30	9.68	11.07	12.45	13.84	15.23	16.63	18.02	19.41	20.81	22.20	23.60	24.99	19.2
23.1-25.0	26.0- 28.3	1.70	3.03	4.43	5.85	7.29	8.74	10.19	11.65	13.11	14.58	16.04	17.51	18.97	20.44	21.91	23.38	24.84	26.31	20.4
25.1-27.0	28.4- 30.6	1.76	3.15	4.60	6.08	7.58	9.09	10.60	12.11	13.63	15.15	16.68	18.20	19.73	21.25	22.78	24.31	25.84	27.36	21.5
27.1-29.0	30.7- 32.9	1.81	3.24	4.74	6.26	7.81	9.36	10.92	12.49	14.05	15.62	17.19	18.77	20.34	21.91	23.49	25.06	26.64	28.22	22.5
29.1-31.0	33.0- 35.3	1.84	3.31	4.84	6.41	7.99	9.59	11.19	12.79	14.40	16.01	17.62	19.23	20.85	22.46	24.08	25.69	27.31	28.92	23.4
31.1-33.0	35.4- 37.6	1.87	3.37	4.93	6.53	8.15	9.77	11.41	13.05	14.69	16.33	17.98	19.62	21.27	22.92	24.57	26.22	27.87	29.52	24.3
33.1-35.0	37.7- 39.9	1.89	3.41	5.00	6.63	8.27	9.93	11.59	13.26	14.93	16.60	18.28	19.95	21.63	23.31	24.99	26.66	28.34	30.02	25.0
35.1-37.0	40.1- 42.3	1.91	3.44	5.06	6.71	8.38	10.06	11.75	13.44	15.14	16.83	18.53	20.24	21.94	23.64	25.34	27.05	28.75	30.46	25.8
37.1-39.0	42.4- 44.6	1.92	3.47	5.11	6.78	8.47	10.17	11.88	13.60	15.31	17.03	18.76	20.48	22.20	23.93	25.65	27.38	29.11	30.83	26.4
39.1-41.0	44.7- 47.0	1.93	3.49	5.14	6.83	8.54	10.26	11.99	13.73	15.47	17.21	18.95	20.69	22.43	24.18	25.92	27.67	29.41	31.16	27.0
41.1-43.0	47.1- 49.3	1.93	3.51	5.17	6.88	8.61	10.34	12.09	13.84	15.60	17.35	19.11	20.87	22.63	24.40	26.16	27.92	29.68	31.45	27.6
43.1-45.0	49.5- 51.7	1.93	3.52	5.20	6.92	8.66	10.41	12.17	13.94	15.71	17.48	19.26	21.03	22.81	24.59	26.37	28.14	29.92	31.70	28.1
45.1-47.0	51.8- 54.1	1.93	3.53	5.22	6.95	8.70	10.47	12.25	14.03	15.81	17.60	19.39	21.18	22.97	24.76	26.55	28.34	30.14	31.93	28.5
47.1-49.0	54.2- 56.4	1.93	3.54	5.23	6.97	8.74	10.52	12.31	14.10	15.90	17.70	19.50	21.30	23.11	24.91	26.71	28.52	30.32	32.13	29.0
49.1-51.0	56.5- 58.8	1.93	3.54	5.24	7.00	8.77	10.56	12.36	14.17	15.98	17.79	19.60	21.41	23.23	25.04	26.86	28.68	30.49	32.31	29.4
51.1-53.0	58.9- 61.2	1.93	3.54	5.25	7.01	8.80	10.60	12.41	14.22	16.04	17.86	19.69	21.51	23.34	25.16	26.99	28.82	30.64	32.47	29.7
53.1-55.0	61.3- 63.5	1.92	3.54	5.26	7.02	8.82	10.63	12.45	14.27	16.10	17.93	19.77	21.60	23.43	25.27	27.11	28.94	30.78	32.61	30.0
55.1-57.0	63.7- 65.9	1.92	3.53	5.26	7.03	8.84	10.66	12.48	14.32	16.15	17.99	19.84	21.68	23.52	25.37	27.21	29.06	30.90	32.75	30.3
57.1-59.0	66.0- 68.3	1.91	3.53	5.26	7.04	8.85	10.68	12.51	14.35	16.20	18.05	19.90	21.75	23.60	25.45	27.30	29.16	31.01	32.86	30.6
59.1-61.0	68.4- 70.7	1.91	3.53	5.26	7.04	8.86	10.69	12.54	14.39	16.24	18.09	19.95	21.81	23.67	25.53	27.39	29.25	31.11	32.97	30.9
61.1-63.0	70.8- 73.1	1.90	3.52	5.25	7.05	8.87	10.71	12.56	14.41	16.27	18.14	20.00	21.87	23.73	25.60	27.47	29.33	31.20	33.07	31.1
63.1-65.0	73.2- 75.5	1.89	3.51	5.25	7.05	8.87	10.72	12.57	14.44	16.30	18.17	20.04	21.92	23.79	25.66	27.54	29.41	31.28	33.16	31.3
65.1-67.0	75.6- 77.9	1.88	3.50	5.24	7.04	8.88	10.73	12.59	14.46	16.33	18.20	20.08	21.96	23.84	25.72	27.60	29.48	31.36	33.24	31.5
67.1-69.0	78.0- 80.3	1.88	3.49	5.24	7.04	8.88	10.73	12.60	14.47	16.35	18.23	20.12	22.00	23.88	25.77	27.65	29.54	31.43	33.31	31.6
69.1-71.0	80.4- 82.7	1.87	3.48	5.23	7.03	8.88	10.74	12.61	14.49	16.37	18.26	20.15	22.03	23.92	25.82	27.71	29.60	31.49	33.38	31.8
71.1-73.0	82.8- 85.1	1.86	3.47	5.22	7.03	8.87	10.74	12.61	14.50	16.39	18.28	20.17	22.07	23.96	25.86	27.75	29.65	31.54	33.44	31.9
73.1-75.0	85.2- 87.5	1.85	3.46	5.21	7.02	8.87	10.74	12.62	14.51	16.40	18.30	20.19	22.09	23.99	25.89	27.79	29.69	31.59	33.50	32.1
75.1-77.0	87.6- 89.9	1.84	3.45	5.20	7.01	8.86	10.74	12.62	14.51	16.41	18.31	20.21	22.12	24.02	25.93	27.83	29.74	31.64	33.55	32.2
77.1-79.0	90.0- 92.3	1.84	3.44	5.19	7.00	8.86	10.73	12.62	14.52	16.42	18.32	20.23	22.14	24.05	25.96	27.87	29.77	31.68	33.59	32.3
79.1-81.0	92.5- 94.8	1.83	3.43	5.18	6.99	8.85	10.73	12.62	14.52	16.43	18.33	20.25	22.16	24.07	25.98	27.90	29.81	31.72	33.63	32.4

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

Table 51. Merchantable length (m) from 0.30 m stump height to 13.0 cm top dib

SPECIES: WHITE SPRUCE
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	14.5- 16.7	0.25	0.40	0.51	0.62	0.71	0.81	0.90	0.99	1.09	1.18	1.27	1.36	1.45	1.55	1.64	1.73	1.83	1.92	13.6
15.1-17.0	16.8- 19.0	0.66	1.16	1.68	2.19	2.72	3.24	3.76	4.29	4.82	5.35	5.88	6.40	6.93	7.46	8.00	8.53	9.06	9.59	15.1
17.1-19.0	19.1- 21.3	0.95	1.72	2.52	3.35	4.18	5.03	5.88	6.74	7.60	8.46	9.32	10.19	11.05	11.92	12.79	13.66	14.53	15.40	16.6
19.1-21.0	21.4- 23.6	1.16	2.10	3.09	4.11	5.14	6.19	7.24	8.29	9.35	10.41	11.48	12.54	13.61	14.68	15.75	16.82	17.89	18.96	18.0
21.1-23.0	23.7- 25.9	1.31	2.38	3.50	4.65	5.82	7.00	8.19	9.38	10.57	11.77	12.97	14.18	15.38	16.58	17.79	19.00	20.20	21.41	19.2
23.1-25.0	26.0- 28.3	1.43	2.58	3.80	5.05	6.32	7.60	8.89	10.18	11.48	12.78	14.08	15.39	16.69	18.00	19.31	20.61	21.92	23.23	20.4
25.1-27.0	28.4- 30.6	1.51	2.74	4.03	5.36	6.71	8.07	9.44	10.81	12.18	13.56	14.94	16.33	17.71	19.10	20.48	21.87	23.26	24.65	21.5
27.1-29.0	30.7- 32.9	1.58	2.86	4.22	5.61	7.02	8.44	9.87	11.30	12.74	14.19	15.63	17.08	18.53	19.97	21.42	22.87	24.33	25.78	22.5
29.1-31.0	33.0- 35.3	1.63	2.96	4.36	5.80	7.26	8.74	10.22	11.71	13.20	14.69	16.19	17.69	19.19	20.69	22.19	23.70	25.20	26.70	23.4
31.1-33.0	35.4- 37.6	1.67	3.04	4.48	5.96	7.47	8.98	10.51	12.04	13.58	15.12	16.66	18.20	19.74	21.29	22.84	24.38	25.93	27.48	24.3
33.1-35.0	37.7- 39.9	1.70	3.10	4.57	6.09	7.63	9.19	10.75	12.32	13.89	15.47	17.05	18.63	20.21	21.79	23.38	24.96	26.55	28.13	25.0
35.1-37.0	40.1- 42.3	1.73	3.15	4.65	6.20	7.77	9.36	10.96	12.56	14.16	15.77	17.38	18.99	20.61	22.22	23.84	25.46	27.07	28.69	25.8
37.1-39.0	42.4- 44.6	1.74	3.19	4.72	6.29	7.89	9.51	11.13	12.76	14.39	16.03	17.67	19.31	20.95	22.59	24.24	25.88	27.53	29.18	26.4
39.1-41.0	44.7- 47.0	1.76	3.22	4.77	6.37	7.99	9.63	11.28	12.93	14.59	16.25	17.91	19.58	21.25	22.92	24.59	26.25	27.93	29.60	27.0
41.1-43.0	47.1- 49.3	1.77	3.25	4.82	6.44	8.08	9.74	11.41	13.08	14.76	16.44	18.13	19.82	21.51	23.20	24.89	26.58	28.27	29.97	27.6
43.1-45.0	49.5- 51.7	1.78	3.27	4.85	6.49	8.15	9.83	11.52	13.21	14.91	16.61	18.32	20.03	21.73	23.44	25.16	26.87	28.58	30.29	28.1
45.1-47.0	51.8- 54.1	1.79	3.28	4.88	6.54	8.21	9.91	11.61	13.33	15.04	16.76	18.49	20.21	21.94	23.66	25.39	27.12	28.85	30.58	28.5
47.1-49.0	54.2- 56.4	1.79	3.30	4.91	6.57	8.27	9.98	11.70	13.42	15.16	16.89	18.63	20.37	22.11	23.86	25.60	27.35	29.09	30.84	29.0
49.1-51.0	56.5- 58.8	1.79	3.31	4.93	6.61	8.31	10.04	11.77	13.51	15.26	17.01	18.76	20.52	22.27	24.03	25.79	27.55	29.31	31.07	29.4
51.1-53.0	58.9- 61.2	1.79	3.31	4.95	6.63	8.35	10.09	11.83	13.59	15.35	17.11	18.88	20.65	22.42	24.19	25.96	27.73	29.50	31.28	29.7
53.1-55.0	61.3- 63.5	1.79	3.32	4.96	6.65	8.38	10.13	11.89	13.66	15.43	17.20	18.98	20.76	22.54	24.32	26.11	27.89	29.68	31.46	30.0
55.1-57.0	63.7- 65.9	1.79	3.32	4.97	6.67	8.41	10.17	11.94	13.71	15.50	17.28	19.07	20.86	22.66	24.45	26.24	28.04	29.84	31.63	30.3
57.1-59.0	66.0- 68.3	1.79	3.32	4.97	6.69	8.43	10.20	11.98	13.77	15.56	17.36	19.15	20.96	22.76	24.56	26.37	28.17	29.98	31.78	30.6
59.1-61.0	68.4- 70.7	1.78	3.32	4.98	6.70	8.45	10.23	12.02	13.81	15.61	17.42	19.23	21.04	22.85	24.66	26.48	28.29	30.11	31.92	30.9
61.1-63.0	70.8- 73.1	1.78	3.32	4.98	6.71	8.47	10.25	12.05	13.85	15.66	17.48	19.29	21.11	22.93	24.76	26.58	28.40	30.23	32.05	31.1
63.1-65.0	73.2- 75.5	1.77	3.31	4.98	6.71	8.48	10.27	12.07	13.89	15.70	17.53	19.35	21.18	23.01	24.84	26.67	28.50	30.33	32.16	31.3
65.1-67.0	75.6- 77.9	1.77	3.31	4.98	6.72	8.49	10.29	12.10	13.92	15.74	17.57	19.40	21.24	23.08	24.91	26.75	28.59	30.43	32.27	31.5
67.1-69.0	78.0- 80.3	1.76	3.30	4.98	6.72	8.50	10.30	12.12	13.94	15.78	17.61	19.45	21.29	23.14	24.98	26.83	28.67	30.52	32.37	31.6
69.1-71.0	80.4- 82.7	1.76	3.30	4.97	6.72	8.50	10.31	12.13	13.97	15.80	17.65	19.49	21.34	23.19	25.04	26.89	28.75	30.60	32.45	31.8
71.1-73.0	82.8- 85.1	1.75	3.29	4.97	6.72	8.50	10.32	12.15	13.99	15.83	17.68	19.53	21.39	23.24	25.10	26.96	28.82	30.67	32.53	31.9
73.1-75.0	85.2- 87.5	1.75	3.28	4.96	6.71	8.51	10.32	12.16	14.00	15.85	17.71	19.56	21.42	23.29	25.15	27.01	28.88	30.74	32.61	32.1
75.1-77.0	87.6- 89.9	1.74	3.28	4.95	6.71	8.50	10.33	12.17	14.01	15.87	17.73	19.59	21.46	23.33	25.20	27.06	28.93	30.80	32.68	32.2
77.1-79.0	90.0- 92.3	1.73	3.27	4.95	6.70	8.50	10.33	12.17	14.03	15.89	17.75	19.62	21.49	23.36	25.24	27.11	28.99	30.86	32.74	32.3
79.1-81.0	92.5- 94.8	1.73	3.26	4.94	6.69	8.50	10.33	12.18	14.03	15.90	17.77	19.64	21.52	23.40	25.27	27.15	29.03	30.91	32.79	32.4

Table 52. Merchantable length (m) from 0.30 m stump height to 15.0 cm top dib

SPECIES: WHITE SPRUCE
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	16.8- 19.0	0.24	0.37	0.47	0.55	0.63	0.71	0.78	0.86	0.93	1.01	1.08	1.16	1.23	1.31	1.39	1.46	1.54	1.62	15.1
17.1-19.0	19.1- 21.3	0.58	1.01	1.43	1.85	2.27	2.69	3.11	3.53	3.95	4.36	4.78	5.20	5.61	6.03	6.44	6.86	7.27	7.69	16.6
19.1-21.0	21.4- 23.6	0.83	1.50	2.20	2.91	3.64	4.38	5.12	5.87	6.63	7.38	8.14	8.90	9.66	10.42	11.19	11.95	12.72	13.48	18.0
21.1-23.0	23.7- 25.9	1.02	1.86	2.74	3.66	4.59	5.53	6.48	7.44	8.40	9.37	10.33	11.30	12.28	13.25	14.22	15.20	16.17	17.15	19.2
23.1-25.0	26.0- 28.3	1.16	2.12	3.14	4.19	5.27	6.35	7.45	8.55	9.66	10.77	11.88	12.99	14.11	15.23	16.34	17.46	18.58	19.70	20.4
25.1-27.0	28.4- 30.6	1.27	2.33	3.45	4.60	5.78	6.97	8.18	9.38	10.60	11.81	13.03	14.26	15.48	16.70	17.93	19.16	20.38	21.61	21.5
27.1-29.0	30.7- 32.9	1.36	2.48	3.68	4.92	6.18	7.46	8.74	10.04	11.33	12.63	13.94	15.24	16.55	17.86	19.17	20.48	21.79	23.10	22.5
29.1-31.0	33.0- 35.3	1.42	2.61	3.87	5.18	6.50	7.85	9.20	10.56	11.92	13.29	14.66	16.04	17.41	18.79	20.16	21.54	22.92	24.30	23.4
31.1-33.0	35.4- 37.6	1.48	2.71	4.03	5.38	6.76	8.16	9.57	10.99	12.41	13.83	15.26	16.69	18.12	19.55	20.98	22.42	23.85	25.29	24.3
33.1-35.0	37.7- 39.9	1.52	2.79	4.15	5.55	6.98	8.42	9.88	11.34	12.81	14.28	15.76	17.23	18.71	20.19	21.67	23.15	24.64	26.12	25.0
35.1-37.0	40.1- 42.3	1.56	2.86	4.25	5.69	7.16	8.64	10.14	11.64	13.15	14.66	16.18	17.69	19.21	20.73	22.25	23.78	25.30	26.82	25.8
37.1-39.0	42.4- 44.6	1.58	2.91	4.34	5.81	7.31	8.83	10.36	11.90	13.44	14.99	16.54	18.09	19.64	21.20	22.76	24.31	25.87	27.43	26.4
39.1-41.0	44.7- 47.0	1.60	2.96	4.41	5.91	7.44	8.99	10.55	12.12	13.69	15.27	16.85	18.43	20.02	21.60	23.19	24.78	26.37	27.96	27.0
41.1-43.0	47.1- 49.3	1.62	3.00	4.47	6.00	7.55	9.13	10.71	12.31	13.91	15.51	17.12	18.73	20.34	21.95	23.57	25.18	26.80	28.42	27.6
43.1-45.0	49.5- 51.7	1.64	3.03	4.52	6.07	7.65	9.24	10.85	12.47	14.09	15.72	17.35	18.99	20.62	22.26	23.90	25.54	27.18	28.82	28.1
45.1-47.0	51.8- 54.1	1.65	3.05	4.56	6.13	7.73	9.35	10.98	12.62	14.26	15.91	17.56	19.22	20.88	22.53	24.19	25.86	27.52	29.18	28.5
47.1-49.0	54.2- 56.4	1.66	3.07	4.60	6.18	7.80	9.43	11.08	12.74	14.41	16.07	17.75	19.42	21.10	22.78	24.46	26.14	27.82	29.50	29.0
49.1-51.0	56.5- 58.8	1.66	3.09	4.63	6.23	7.86	9.51	11.18	12.85	14.53	16.22	17.91	19.60	21.30	22.99	24.69	26.39	28.09	29.79	29.4
51.1-53.0	58.9- 61.2	1.67	3.10	4.65	6.26	7.91	9.58	11.26	12.95	14.65	16.35	18.06	19.76	21.47	23.19	24.90	26.61	28.33	30.04	29.7
53.1-55.0	61.3- 63.5	1.67	3.11	4.67	6.30	7.96	9.64	11.33	13.04	14.75	16.47	18.19	19.91	21.63	23.36	25.09	26.82	28.55	30.28	30.0
55.1-57.0	63.7- 65.9	1.67	3.12	4.69	6.32	7.99	9.69	11.40	13.11	14.84	16.57	18.30	20.04	21.78	23.52	25.26	27.00	28.74	30.49	30.3
57.1-59.0	66.0- 68.3	1.67	3.13	4.70	6.35	8.03	9.73	11.45	13.18	14.92	16.66	18.41	20.15	21.90	23.66	25.41	27.16	28.92	30.68	30.6
59.1-61.0	68.4- 70.7	1.67	3.13	4.71	6.37	8.06	9.77	11.50	13.24	14.99	16.74	18.50	20.26	22.02	23.78	25.55	27.31	29.08	30.85	30.9
61.1-63.0	70.8- 73.1	1.67	3.13	4.72	6.38	8.08	9.80	11.54	13.30	15.05	16.82	18.58	20.35	22.13	23.90	25.67	27.45	29.23	31.01	31.1
63.1-65.0	73.2- 75.5	1.67	3.13	4.73	6.39	8.10	9.83	11.58	13.34	15.11	16.88	18.66	20.44	22.22	24.00	25.79	27.58	29.36	31.15	31.3
65.1-67.0	75.6- 77.9	1.67	3.13	4.73	6.40	8.12	9.86	11.62	13.38	15.16	16.94	18.73	20.52	22.31	24.10	25.89	27.69	29.48	31.28	31.5
67.1-69.0	78.0- 80.3	1.66	3.13	4.73	6.41	8.13	9.88	11.64	13.42	15.21	17.00	18.79	20.59	22.39	24.19	25.99	27.79	29.60	31.40	31.6
69.1-71.0	80.4- 82.7	1.66	3.13	4.73	6.41	8.14	9.90	11.67	13.45	15.25	17.04	18.84	20.65	22.46	24.27	26.08	27.89	29.70	31.51	31.8
71.1-73.0	82.8- 85.1	1.65	3.12	4.73	6.42	8.15	9.91	11.69	13.48	15.28	17.09	18.89	20.71	22.52	24.34	26.15	27.97	29.79	31.61	31.9
73.1-75.0	85.2- 87.5	1.65	3.12	4.73	6.42	8.16	9.92	11.71	13.51	15.31	17.12	18.94	20.76	22.58	24.40	26.23	28.05	29.88	31.71	32.1
75.1-77.0	87.6- 89.9	1.65	3.11	4.72	6.42	8.16	9.93	11.72	13.53	15.34	17.16	18.98	20.80	22.63	24.46	26.29	28.13	29.96	31.79	32.2
77.1-79.0	90.0- 92.3	1.64	3.11	4.72	6.42	8.16	9.94	11.74	13.55	15.36	17.19	19.01	20.85	22.68	24.52	26.35	28.19	30.03	31.87	32.3
79.1-81.0	92.5- 94.8	1.63	3.10	4.71	6.41	8.16	9.95	11.75	13.56	15.38	17.21	19.05	20.88	22.72	24.57	26.41	28.25	30.10	31.94	32.4

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

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

Table 53. Trees/m^3 of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: WHITE SPRUCE
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	4.4- 6.7	1371.287	764.174	533.183	410.147	333.385	280.825	242.548	213.418	190.504	172.008	156.765	143.987	133.122	123.771	115.638	108.501	102.188	96.564	5.8
7.1- 9.0	6.9- 9.2	217.090	126.621	89.067	68.594	55.731	46.908	40.484	35.600	31.762	28.667	26.119	23.984	22.171	20.611	19.256	18.067	17.015	16.079	7.3
9.1-11.0	9.4- 11.7	118.358	69.455	48.992	37.792	30.738	25.891	22.358	19.669	17.555	15.848	14.443	13.265	12.265	11.403	10.655	9.998	9.416	8.899	8.8
11.1-13.0	11.9- 14.2	78.520	46.002	32.420	24.994	20.321	17.111	14.772	12.993	11.594	10.466	9.537	8.758	8.096	7.527	7.032	6.598	6.214	5.872	10.2
13.1-15.0	14.3- 16.7	56.979	33.263	23.400	18.020	14.638	12.319	10.630	9.346	8.337	7.524	6.854	6.294	5.817	5.407	5.051	4.739	4.463	4.217	11.6
15.1-17.0	16.8- 19.1	43.668	25.393	17.827	13.710	11.128	9.358	8.071	7.093	6.325	5.706	5.197	4.771	4.409	4.098	3.827	3.590	3.380	3.194	13.0
17.1-19.0	19.2- 21.6	34.755	20.134	14.108	10.836	8.786	7.384	6.365	5.591	4.984	4.495	4.093	3.757	3.471	3.225	3.012	2.825	2.659	2.512	14.2
19.1-21.0	21.7- 24.0	28.447	16.423	11.487	8.813	7.140	5.996	5.166	4.536	4.042	3.644	3.318	3.044	2.812	2.613	2.439	2.288	2.153	2.034	15.5
21.1-23.0	24.1- 26.4	23.795	13.697	9.566	7.331	5.934	4.981	4.289	3.764	3.353	3.022	2.751	2.523	2.330	2.165	2.021	1.895	1.784	1.685	16.6
23.1-25.0	26.5- 28.8	20.253	11.630	8.111	6.210	5.023	4.214	3.627	3.182	2.833	2.553	2.323	2.131	1.967	1.827	1.706	1.599	1.505	1.421	17.8
25.1-27.0	28.9- 31.2	17.485	10.020	6.981	5.340	4.317	3.619	3.114	2.731	2.431	2.190	1.992	1.827	1.687	1.566	1.462	1.370	1.289	1.217	18.8
27.1-29.0	31.3- 33.6	15.275	8.741	6.084	4.651	3.758	3.149	2.708	2.374	2.113	1.903	1.731	1.587	1.465	1.360	1.269	1.189	1.119	1.057	19.8
29.1-31.0	33.7- 35.9	13.479	7.705	5.360	4.095	3.307	2.770	2.381	2.087	1.857	1.672	1.520	1.393	1.286	1.194	1.114	1.044	0.982	0.927	20.8
31.1-33.0	36.0- 38.3	11.997	6.853	4.765	3.639	2.938	2.460	2.114	1.852	1.648	1.483	1.348	1.236	1.140	1.058	0.987	0.925	0.870	0.822	21.8
33.1-35.0	38.4- 40.6	10.757	6.144	4.271	3.261	2.631	2.203	1.892	1.658	1.474	1.327	1.206	1.105	1.019	0.946	0.883	0.827	0.778	0.734	22.6
35.1-37.0	40.7- 42.9	9.708	5.545	3.855	2.943	2.374	1.987	1.707	1.495	1.329	1.196	1.087	0.995	0.918	0.852	0.795	0.745	0.700	0.661	23.5
37.1-39.0	43.1- 45.3	8.812	5.036	3.502	2.673	2.156	1.804	1.549	1.356	1.206	1.085	0.986	0.903	0.833	0.773	0.721	0.675	0.635	0.599	24.3
39.1-41.0	45.4- 47.6	8.038	4.598	3.198	2.442	1.969	1.647	1.414	1.238	1.100	0.990	0.899	0.824	0.760	0.705	0.657	0.615	0.579	0.546	25.1
41.1-43.0	47.7- 49.8	7.365	4.218	2.936	2.242	1.808	1.512	1.298	1.136	1.010	0.908	0.825	0.755	0.697	0.646	0.602	0.564	0.531	0.501	25.8
43.1-45.0	50.0- 52.1	6.776	3.886	2.707	2.067	1.667	1.395	1.197	1.048	0.931	0.837	0.760	0.696	0.642	0.595	0.555	0.520	0.489	0.461	26.5
45.1-47.0	52.2- 54.4	6.257	3.594	2.506	1.915	1.544	1.292	1.109	0.970	0.862	0.775	0.704	0.644	0.594	0.551	0.514	0.481	0.452	0.427	27.1
47.1-49.0	54.5- 56.6	5.796	3.336	2.329	1.780	1.436	1.201	1.031	0.902	0.801	0.720	0.654	0.599	0.552	0.512	0.477	0.447	0.420	0.396	27.8
49.1-51.0	56.7- 58.9	5.385	3.107	2.171	1.661	1.340	1.121	0.962	0.842	0.748	0.672	0.610	0.559	0.515	0.477	0.445	0.417	0.392	0.369	28.4
51.1-53.0	59.0- 61.1	5.017	2.902	2.031	1.554	1.254	1.049	0.901	0.788	0.700	0.629	0.571	0.523	0.482	0.447	0.416	0.390	0.366	0.346	28.9
53.1-55.0	61.2- 63.3	4.685	2.717	1.905	1.459	1.178	0.985	0.846	0.740	0.657	0.591	0.536	0.491	0.452	0.419	0.391	0.366	0.344	0.324	29.5
55.1-57.0	63.4- 65.5	4.386	2.551	1.791	1.373	1.109	0.928	0.797	0.697	0.619	0.556	0.505	0.462	0.426	0.395	0.368	0.344	0.324	0.305	30.0
57.1-59.0	65.6- 67.7	4.114	2.400	1.688	1.295	1.047	0.876	0.752	0.658	0.584	0.525	0.477	0.436	0.402	0.373	0.347	0.325	0.306	0.288	30.5
59.1-61.0	67.8- 69.9	3.866	2.263	1.595	1.225	0.990	0.829	0.712	0.623	0.553	0.497	0.451	0.413	0.381	0.353	0.329	0.308	0.289	0.273	30.9
61.1-63.0	70.0- 72.0	3.640	2.138	1.510	1.161	0.939	0.786	0.675	0.591	0.525	0.472	0.428	0.392	0.361	0.335	0.312	0.292	0.274	0.259	31.4
63.1-65.0	72.1- 74.2	3.433	2.024	1.432	1.102	0.892	0.748	0.642	0.562	0.499	0.449	0.407	0.372	0.343	0.318	0.296	0.277	0.261	0.246	31.8
65.1-67.0	74.3- 76.3	3.242	1.918	1.360	1.048	0.849	0.712	0.612	0.535	0.475	0.427	0.388	0.355	0.327	0.303	0.282	0.264	0.248	0.234	32.2
67.1-69.0	76.4- 78.5	3.066	1.822	1.295	0.999	0.810	0.679	0.584	0.511	0.454	0.408	0.370	0.339	0.312	0.289	0.269	0.252	0.237	0.223	32.6
69.1-71.0	78.6- 80.6	2.904	1.732	1.234	0.954	0.774	0.649	0.558	0.488	0.434	0.390	0.354	0.324	0.298	0.277	0.258	0.241	0.227	0.214	32.9
71.1-73.0	80.7- 82.7	2.754	1.649	1.178	0.912	0.740	0.621	0.534	0.468	0.416	0.374	0.339	0.310	0.286	0.265	0.247	0.231	0.217	0.205	33.3
73.1-75.0	82.8- 84.8	2.615	1.573	1.126	0.873	0.709	0.596	0.512	0.449	0.399	0.358	0.325	0.298	0.274	0.254	0.237	0.222	0.208	0.196	33.6
75.1-77.0	84.9- 86.8	2.485	1.501	1.078	0.837	0.681	0.572	0.492	0.431	0.383	0.344	0.313	0.286	0.263	0.244	0.227	0.213	0.200	0.188	33.9
77.1-79.0	86.9- 88.9	2.364	1.435	1.033	0.803	0.654	0.550	0.473	0.415	0.368	0.331	0.301	0.275	0.254	0.235	0.219	0.205	0.192	0.181	34.2
79.1-81.0	89.0- 90.9	2.252	1.373	0.991	0.772	0.629	0.529	0.456	0.399	0.355	0.319	0.290	0.265	0.244	0.226	0.211	0.197	0.185	0.175	34.5

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 7.0 cm top dib

SPECIES: WHITE SPRUCE
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	6.9- 9.2	1116.513	624.484	441.219	342.595	280.255	237.092	205.382	181.085	161.873	146.302	133.430	122.612	113.395	105.450	98.531	92.454	87.074	82.278	7.3
9.1-11.0	9.4- 11.7	166.903	95.426	66.473	50.887	41.174	34.551	29.750	26.112	23.262	20.970	19.086	17.511	16.175	15.027	14.030	13.157	12.385	11.699	8.8
11.1-13.0	11.9- 14.2	91.629	52.844	36.956	28.358	22.983	19.309	16.642	14.618	13.030	11.752	10.701	9.821	9.075	8.433	7.876	7.387	6.955	6.571	10.2
13.1-15.0	14.3- 16.7	62.241	35.959	25.167	19.320	15.662	13.161	11.344	9.965	8.883	8.012	7.296	6.696	6.187	5.750	5.370	5.037	4.742	4.480	11.6
15.1-17.0	16.8- 19.1	46.242	26.689	18.668	14.325	11.609	9.752	8.404	7.381	6.579	5.933	5.402	4.957	4.580	4.256	3.974	3.727	3.509	3.315	13.0
17.1-19.0	19.2- 21.6	36.178	20.840	14.561	11.165	9.043	7.593	6.541	5.743	5.118	4.614	4.200	3.854	3.560	3.308	3.089	2.897	2.727	2.576	14.2
19.1-21.0	21.7- 24.0	29.304	16.844	11.755	9.006	7.289	6.118	5.268	4.624	4.119	3.713	3.379	3.100	2.863	2.660	2.483	2.329	2.192	2.070	15.5
21.1-23.0	24.1- 26.4	24.346	13.964	9.734	7.451	6.027	5.056	4.352	3.818	3.401	3.065	2.788	2.558	2.362	2.194	2.048	1.920	1.807	1.707	16.6
23.1-25.0	26.5- 28.8	20.624	11.808	8.223	6.289	5.084	4.263	3.668	3.217	2.864	2.580	2.348	2.153	1.988	1.846	1.723	1.615	1.520	1.435	17.8
25.1-27.0	28.9- 31.2	17.746	10.145	7.058	5.395	4.359	3.653	3.142	2.755	2.452	2.209	2.009	1.842	1.700	1.579	1.473	1.381	1.300	1.227	18.8
27.1-29.0	31.3- 33.6	15.464	8.830	6.140	4.690	3.788	3.173	2.728	2.391	2.128	1.916	1.742	1.597	1.474	1.369	1.277	1.197	1.126	1.063	19.8
29.1-31.0	33.7- 35.9	13.620	7.771	5.401	4.124	3.329	2.787	2.396	2.099	1.868	1.681	1.529	1.401	1.293	1.200	1.120	1.049	0.987	0.932	20.8
31.1-33.0	36.0- 38.3	12.104	6.904	4.796	3.661	2.954	2.473	2.125	1.861	1.656	1.490	1.355	1.241	1.145	1.063	0.992	0.929	0.874	0.825	21.8
33.1-35.0	38.4- 40.6	10.841	6.183	4.295	3.278	2.644	2.213	1.901	1.665	1.480	1.332	1.211	1.109	1.023	0.950	0.886	0.830	0.781	0.737	22.6
35.1-37.0	40.7- 42.9	9.774	5.576	3.874	2.956	2.384	1.995	1.713	1.500	1.334	1.200	1.090	0.999	0.921	0.855	0.797	0.747	0.703	0.663	23.5
37.1-39.0	43.1- 45.3	8.864	5.061	3.517	2.684	2.164	1.810	1.554	1.361	1.209	1.088	0.989	0.905	0.835	0.775	0.723	0.677	0.637	0.601	24.3
39.1-41.0	45.4- 47.6	8.081	4.618	3.211	2.450	1.976	1.652	1.418	1.242	1.103	0.993	0.902	0.826	0.762	0.706	0.659	0.617	0.580	0.547	25.1
41.1-43.0	47.7- 49.8	7.400	4.234	2.946	2.249	1.813	1.516	1.301	1.139	1.012	0.910	0.827	0.757	0.698	0.648	0.604	0.565	0.532	0.502	25.8
43.1-45.0	50.0- 52.1	6.805	3.900	2.716	2.073	1.672	1.398	1.200	1.050	0.933	0.839	0.762	0.698	0.643	0.597	0.556	0.521	0.490	0.462	26.5
45.1-47.0	52.2- 54.4	6.281	3.606	2.513	1.920	1.548	1.295	1.111	0.972	0.864	0.777	0.705	0.646	0.595	0.552	0.515	0.482	0.453	0.427	27.1
47.1-49.0	54.5- 56.6	5.816	3.346	2.335	1.784	1.439	1.204	1.033	0.904	0.803	0.722	0.655	0.600	0.553	0.513	0.478	0.448	0.421	0.397	27.8
49.1-51.0	56.7- 58.9	5.402	3.115	2.177	1.664	1.343	1.123	0.964	0.843	0.749	0.673	0.611	0.559	0.516	0.478	0.446	0.417	0.392	0.370	28.4
51.1-53.0	59.0- 61.1	5.032	2.909	2.035	1.557	1.257	1.051	0.902	0.789	0.701	0.630	0.572	0.524	0.483	0.447	0.417	0.390	0.367	0.346	28.9
53.1-55.0	61.2- 63.3	4.698	2.724	1.909	1.461	1.180	0.987	0.847	0.741	0.658	0.592	0.537	0.492	0.453	0.420	0.391	0.366	0.344	0.325	29.5
55.1-57.0	63.4- 65.5	4.397	2.556	1.794	1.375	1.111	0.929	0.798	0.698	0.620	0.557	0.506	0.463	0.426	0.395	0.368	0.345	0.324	0.306	30.0
57.1-59.0	65.6- 67.7	4.123	2.405	1.691	1.297	1.048	0.877	0.753	0.659	0.585	0.526	0.477	0.437	0.403	0.373	0.348	0.325	0.306	0.288	30.5
59.1-61.0	67.8- 69.9	3.874	2.267	1.597	1.227	0.992	0.830	0.713	0.624	0.554	0.498	0.452	0.413	0.381	0.353	0.329	0.308	0.289	0.273	30.9
61.1-63.0	70.0- 72.0	3.647	2.142	1.512	1.162	0.940	0.788	0.676	0.592	0.525	0.472	0.429	0.392	0.361	0.335	0.312	0.292	0.274	0.259	31.4
63.1-65.0	72.1- 74.2	3.439	2.027	1.434	1.104	0.893	0.748	0.643	0.563	0.500	0.449	0.408	0.373	0.344	0.318	0.297	0.278	0.261	0.246	31.8
65.1-67.0	74.3- 76.3	3.248	1.921	1.362	1.050	0.850	0.713	0.612	0.536	0.476	0.428	0.388	0.355	0.327	0.303	0.283	0.264	0.248	0.234	32.2
67.1-69.0	76.4- 78.5	3.071	1.824	1.297	1.000	0.811	0.680	0.584	0.511	0.454	0.408	0.371	0.339	0.312	0.290	0.270	0.252	0.237	0.224	32.6
69.1-71.0	78.6- 80.6	2.909	1.735	1.236	0.955	0.775	0.650	0.558	0.489	0.434	0.390	0.354	0.324	0.299	0.277	0.258	0.241	0.227	0.214	32.9
71.1-73.0	80.7- 82.7	2.758	1.652	1.180	0.913	0.741	0.622	0.535	0.468	0.416	0.374	0.339	0.311	0.286	0.265	0.247	0.231	0.217	0.205	33.3
73.1-75.0	82.8- 84.8	2.618	1.575	1.128	0.874	0.710	0.596	0.513	0.449	0.399	0.359	0.326	0.298	0.274	0.254	0.237	0.222	0.208	0.196	33.6
75.1-77.0	84.9- 86.8	2.488	1.503	1.079	0.838	0.681	0.572	0.492	0.431	0.383	0.345	0.313	0.286	0.264	0.244	0.228	0.213	0.200	0.189	33.9
77.1-79.0	86.9- 88.9	2.367	1.437	1.034	0.804	0.655	0.550	0.474	0.415	0.369	0.332	0.301	0.275	0.254	0.235	0.219	0.205	0.193	0.181	34.2
79.1-81.0	89.0- 90.9	2.254	1.374	0.992	0.773	0.630	0.530	0.456	0.400	0.355	0.319	0.290	0.265	0.244	0.227	0.211	0.197	0.185	0.175	34.5

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

Table 55. Trees/m³ of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: WHITE SPRUCE
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	11.9- 14.2	214.838	124.089	87.953	68.323	55.928	47.368	41.092	36.290	32.494	29.418	26.874	24.735	22.910	21.336	19.964	18.757	17.687	16.733	10.2
13.1-15.0	14.3- 16.7	89.147	50.494	34.994	26.692	21.539	18.036	15.503	13.589	12.091	10.889	9.902	9.078	8.380	7.781	7.261	6.806	6.404	6.047	11.6
15.1-17.0	16.8- 19.1	56.634	32.155	22.298	17.015	13.735	11.505	9.892	8.673	7.719	6.953	6.324	5.799	5.354	4.971	4.640	4.350	4.093	3.865	13.0
17.1-19.0	19.2- 21.6	41.254	23.466	16.286	12.434	10.041	8.413	7.235	6.344	5.647	5.087	4.627	4.243	3.918	3.638	3.396	3.183	2.996	2.829	14.2
19.1-21.0	21.7- 24.0	32.138	18.291	12.698	9.695	7.829	6.559	5.641	4.946	4.402	3.966	3.607	3.308	3.054	2.836	2.647	2.481	2.335	2.205	15.5
21.1-23.0	24.1- 26.4	26.073	14.837	10.299	7.862	6.348	5.317	4.572	4.008	3.567	3.213	2.922	2.679	2.473	2.297	2.143	2.009	1.891	1.785	16.6
23.1-25.0	26.5- 28.8	21.746	12.371	8.584	6.551	5.288	4.428	3.807	3.337	2.969	2.674	2.431	2.229	2.057	1.910	1.783	1.671	1.572	1.484	17.8
25.1-27.0	28.9- 31.2	18.510	10.526	7.302	5.571	4.495	3.763	3.234	2.834	2.521	2.270	2.064	1.892	1.746	1.621	1.513	1.418	1.334	1.259	18.8
27.1-29.0	31.3- 33.6	16.005	9.099	6.311	4.813	3.882	3.250	2.792	2.446	2.176	1.959	1.780	1.632	1.506	1.398	1.304	1.222	1.150	1.085	19.8
29.1-31.0	33.7- 35.9	14.015	7.967	5.525	4.213	3.397	2.843	2.442	2.139	1.902	1.712	1.556	1.426	1.316	1.221	1.139	1.067	1.004	0.948	20.8
31.1-33.0	36.0- 38.3	12.400	7.050	4.889	3.727	3.005	2.514	2.159	1.890	1.681	1.513	1.375	1.259	1.162	1.078	1.006	0.942	0.886	0.837	21.8
33.1-35.0	38.4- 40.6	11.067	6.295	4.366	3.328	2.683	2.244	1.926	1.687	1.499	1.349	1.226	1.123	1.036	0.961	0.896	0.840	0.790	0.745	22.6
35.1-37.0	40.7- 42.9	9.950	5.664	3.929	2.995	2.414	2.019	1.733	1.517	1.348	1.213	1.102	1.009	0.931	0.864	0.805	0.755	0.710	0.670	23.5
37.1-39.0	43.1- 45.3	9.004	5.130	3.561	2.715	2.188	1.829	1.570	1.374	1.221	1.098	0.998	0.914	0.843	0.782	0.729	0.683	0.642	0.606	24.3
39.1-41.0	45.4- 47.6	8.193	4.674	3.246	2.475	1.995	1.668	1.431	1.252	1.113	1.001	0.909	0.832	0.767	0.712	0.664	0.622	0.585	0.552	25.1
41.1-43.0	47.7- 49.8	7.491	4.280	2.975	2.269	1.829	1.529	1.312	1.148	1.020	0.917	0.833	0.762	0.703	0.652	0.608	0.569	0.535	0.505	25.8
43.1-45.0	50.0- 52.1	6.880	3.937	2.739	2.090	1.685	1.408	1.208	1.057	0.939	0.844	0.767	0.702	0.647	0.600	0.559	0.524	0.493	0.465	26.5
45.1-47.0	52.2- 54.4	6.343	3.637	2.533	1.934	1.559	1.303	1.118	0.978	0.869	0.781	0.709	0.649	0.598	0.555	0.517	0.484	0.455	0.430	27.1
47.1-49.0	54.5- 56.6	5.868	3.373	2.352	1.796	1.448	1.211	1.039	0.909	0.807	0.726	0.659	0.603	0.556	0.515	0.480	0.450	0.423	0.399	27.8
49.1-51.0	56.7- 58.9	5.446	3.138	2.191	1.674	1.351	1.129	0.969	0.847	0.753	0.676	0.614	0.562	0.518	0.480	0.448	0.419	0.394	0.372	28.4
51.1-53.0	59.0- 61.1	5.069	2.928	2.047	1.566	1.263	1.057	0.907	0.793	0.704	0.633	0.574	0.526	0.485	0.449	0.419	0.392	0.368	0.347	28.9
53.1-55.0	61.2- 63.3	4.730	2.740	1.919	1.469	1.186	0.992	0.851	0.744	0.661	0.594	0.539	0.493	0.455	0.422	0.393	0.368	0.346	0.326	29.5
55.1-57.0	63.4- 65.5	4.424	2.571	1.804	1.382	1.116	0.933	0.801	0.701	0.622	0.559	0.508	0.464	0.428	0.397	0.370	0.346	0.325	0.307	30.0
57.1-59.0	65.6- 67.7	4.147	2.417	1.699	1.303	1.053	0.881	0.756	0.661	0.587	0.528	0.479	0.438	0.404	0.374	0.349	0.327	0.307	0.289	30.5
59.1-61.0	67.8- 69.9	3.895	2.278	1.605	1.232	0.996	0.833	0.715	0.626	0.556	0.499	0.453	0.415	0.382	0.354	0.330	0.309	0.290	0.274	30.9
61.1-63.0	70.0- 72.0	3.665	2.151	1.518	1.167	0.944	0.790	0.678	0.594	0.527	0.474	0.430	0.393	0.362	0.336	0.313	0.293	0.275	0.259	31.4
63.1-65.0	72.1- 74.2	3.454	2.035	1.440	1.108	0.897	0.751	0.645	0.564	0.501	0.450	0.409	0.374	0.344	0.319	0.297	0.278	0.262	0.247	31.8
65.1-67.0	74.3- 76.3	3.261	1.929	1.367	1.053	0.853	0.715	0.614	0.537	0.477	0.429	0.389	0.356	0.328	0.304	0.283	0.265	0.249	0.235	32.2
67.1-69.0	76.4- 78.5	3.083	1.831	1.301	1.004	0.814	0.682	0.586	0.513	0.455	0.409	0.371	0.340	0.313	0.290	0.270	0.253	0.238	0.224	32.6
69.1-71.0	78.6- 80.6	2.919	1.741	1.240	0.958	0.777	0.652	0.560	0.490	0.435	0.391	0.355	0.325	0.299	0.277	0.258	0.242	0.227	0.214	32.9
71.1-73.0	80.7- 82.7	2.767	1.657	1.183	0.915	0.743	0.624	0.536	0.469	0.417	0.375	0.340	0.311	0.287	0.266	0.247	0.232	0.218	0.205	33.3
73.1-75.0	82.8- 84.8	2.627	1.580	1.131	0.876	0.712	0.598	0.514	0.450	0.400	0.360	0.326	0.299	0.275	0.255	0.237	0.222	0.209	0.197	33.6
75.1-77.0	84.9- 86.8	2.496	1.508	1.082	0.840	0.683	0.574	0.494	0.432	0.384	0.345	0.313	0.287	0.264	0.245	0.228	0.213	0.200	0.189	33.9
77.1-79.0	86.9- 88.9	2.374	1.441	1.037	0.806	0.656	0.552	0.475	0.416	0.370	0.332	0.302	0.276	0.254	0.236	0.219	0.205	0.193	0.182	34.2
79.1-81.0	89.0- 90.9	2.260	1.378	0.995	0.775	0.631	0.531	0.457	0.401	0.356	0.320	0.291	0.266	0.245	0.227	0.211	0.198	0.186	0.175	34.5

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

Table 56. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: WHITE SPRUCE
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	11.9- 14.2	562.860	337.309	250.003	200.160	167.008	143.151	125.119	111.010	99.677	90.383	82.628	76.065	70.441	65.572	61.316	57.567	54.240	51.268	10.2
13.1-15.0	14.3- 16.7	115.557	65.806	45.897	35.176	28.482	23.911	20.593	18.076	16.103	14.516	13.211	12.119	11.193	10.398	9.707	9.102	8.567	8.092	11.6
15.1-17.0	16.8- 19.1	64.157	36.283	25.111	19.134	15.428	12.911	11.092	9.719	8.645	7.783	7.076	6.486	5.986	5.557	5.186	4.860	4.573	4.317	13.0
17.1-19.0	19.2- 21.6	44.438	25.168	17.426	13.282	10.712	8.967	7.706	6.753	6.008	5.409	4.919	4.509	4.162	3.864	3.606	3.380	3.180	3.003	14.2
19.1-21.0	21.7- 24.0	33.774	19.152	13.268	10.117	8.161	6.832	5.872	5.146	4.579	4.123	3.749	3.437	3.173	2.946	2.749	2.576	2.424	2.289	15.5
21.1-23.0	24.1- 26.4	27.019	15.330	10.623	8.100	6.534	5.470	4.701	4.120	3.665	3.300	3.001	2.751	2.539	2.358	2.200	2.062	1.940	1.832	16.6
23.1-25.0	26.5- 28.8	22.339	12.677	8.784	6.698	5.402	4.522	3.885	3.404	3.029	2.727	2.479	2.272	2.097	1.947	1.817	1.703	1.602	1.512	17.8
25.1-27.0	28.9- 31.2	18.903	10.727	7.433	5.666	4.569	3.824	3.285	2.878	2.560	2.304	2.095	1.920	1.772	1.645	1.535	1.438	1.353	1.277	18.8
27.1-29.0	31.3- 33.6	16.278	9.238	6.401	4.879	3.933	3.291	2.827	2.476	2.202	1.982	1.801	1.651	1.523	1.414	1.319	1.236	1.163	1.097	19.8
29.1-31.0	33.7- 35.9	14.211	8.067	5.589	4.259	3.433	2.872	2.466	2.160	1.920	1.728	1.571	1.439	1.328	1.232	1.149	1.077	1.013	0.956	20.8
31.1-33.0	36.0- 38.3	12.545	7.124	4.936	3.761	3.031	2.535	2.177	1.906	1.694	1.524	1.385	1.269	1.171	1.086	1.013	0.949	0.893	0.843	21.8
33.1-35.0	38.4- 40.6	11.176	6.350	4.402	3.354	2.703	2.260	1.940	1.698	1.509	1.358	1.234	1.130	1.042	0.967	0.902	0.845	0.795	0.750	22.6
35.1-37.0	40.7- 42.9	10.035	5.707	3.957	3.015	2.429	2.031	1.743	1.526	1.356	1.220	1.108	1.015	0.936	0.868	0.810	0.758	0.713	0.673	23.5
37.1-39.0	43.1- 45.3	9.070	5.164	3.582	2.730	2.200	1.839	1.578	1.381	1.227	1.103	1.002	0.918	0.846	0.785	0.732	0.686	0.645	0.608	24.3
39.1-41.0	45.4- 47.6	8.246	4.701	3.263	2.488	2.004	1.675	1.437	1.258	1.117	1.005	0.913	0.836	0.771	0.715	0.666	0.624	0.587	0.554	25.1
41.1-43.0	47.7- 49.8	7.534	4.302	2.989	2.279	1.836	1.535	1.317	1.152	1.023	0.920	0.836	0.765	0.705	0.654	0.610	0.571	0.537	0.507	25.8
43.1-45.0	50.0- 52.1	6.915	3.955	2.751	2.098	1.691	1.413	1.213	1.061	0.942	0.847	0.769	0.704	0.649	0.602	0.561	0.525	0.494	0.466	26.5
45.1-47.0	52.2- 54.4	6.372	3.652	2.543	1.941	1.564	1.307	1.122	0.981	0.871	0.783	0.711	0.651	0.600	0.557	0.519	0.486	0.457	0.431	27.1
47.1-49.0	54.5- 56.6	5.892	3.385	2.360	1.802	1.453	1.214	1.042	0.911	0.809	0.727	0.660	0.604	0.557	0.517	0.481	0.451	0.424	0.400	27.8
49.1-51.0	56.7- 58.9	5.466	3.148	2.198	1.679	1.354	1.132	0.971	0.850	0.754	0.678	0.616	0.563	0.519	0.481	0.449	0.420	0.395	0.372	28.4
51.1-53.0	59.0- 61.1	5.085	2.937	2.053	1.570	1.267	1.059	0.909	0.795	0.706	0.634	0.576	0.527	0.486	0.450	0.420	0.393	0.369	0.348	28.9
53.1-55.0	61.2- 63.3	4.744	2.748	1.924	1.473	1.188	0.994	0.853	0.746	0.662	0.595	0.540	0.494	0.456	0.422	0.394	0.368	0.346	0.327	29.5
55.1-57.0	63.4- 65.5	4.436	2.577	1.808	1.385	1.118	0.935	0.803	0.702	0.623	0.560	0.508	0.465	0.429	0.397	0.370	0.347	0.326	0.307	30.0
57.1-59.0	65.6- 67.7	4.157	2.423	1.703	1.306	1.055	0.883	0.757	0.663	0.588	0.529	0.480	0.439	0.405	0.375	0.349	0.327	0.307	0.290	30.5
59.1-61.0	67.8- 69.9	3.904	2.283	1.608	1.234	0.998	0.835	0.717	0.627	0.557	0.500	0.454	0.415	0.383	0.355	0.330	0.309	0.291	0.274	30.9
61.1-63.0	70.0- 72.0	3.673	2.156	1.521	1.169	0.946	0.792	0.680	0.595	0.528	0.474	0.431	0.394	0.363	0.336	0.313	0.293	0.276	0.260	31.4
63.1-65.0	72.1- 74.2	3.461	2.039	1.442	1.110	0.898	0.752	0.646	0.565	0.502	0.451	0.409	0.374	0.345	0.320	0.298	0.279	0.262	0.247	31.8
65.1-67.0	74.3- 76.3	3.267	1.932	1.370	1.055	0.855	0.716	0.615	0.538	0.478	0.429	0.390	0.357	0.329	0.304	0.284	0.265	0.249	0.235	32.2
67.1-69.0	76.4- 78.5	3.089	1.834	1.303	1.005	0.815	0.683	0.587	0.513	0.456	0.410	0.372	0.340	0.313	0.291	0.271	0.253	0.238	0.224	32.6
69.1-71.0	78.6- 80.6	2.924	1.743	1.242	0.959	0.778	0.653	0.561	0.491	0.436	0.392	0.356	0.325	0.300	0.278	0.259	0.242	0.227	0.214	32.9
71.1-73.0	80.7- 82.7	2.771	1.660	1.185	0.917	0.744	0.624	0.537	0.470	0.417	0.375	0.341	0.312	0.287	0.266	0.248	0.232	0.218	0.205	33.3
73.1-75.0	82.8- 84.8	2.630	1.582	1.133	0.877	0.713	0.599	0.515	0.451	0.400	0.360	0.327	0.299	0.275	0.255	0.238	0.222	0.209	0.197	33.6
75.1-77.0	84.9- 86.8	2.499	1.510	1.084	0.841	0.684	0.575	0.494	0.433	0.385	0.346	0.314	0.287	0.264	0.245	0.228	0.214	0.201	0.189	33.9
77.1-79.0	86.9- 88.9	2.377	1.442	1.038	0.807	0.657	0.552	0.475	0.416	0.370	0.333	0.302	0.276	0.254	0.236	0.220	0.205	0.193	0.182	34.2
79.1-81.0	89.0- 90.9	2.263	1.380	0.996	0.775	0.632	0.531	0.457	0.401	0.356	0.320	0.291	0.266	0.245	0.227	0.212	0.198	0.186	0.175	34.5

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

Table 57. Trees/m^3 of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: WHITE SPRUCE
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- 16.7	391.113	243.623	185.614	151.516	128.147	110.903	97.612	87.056	78.478	71.379	65.413	60.334	55.962	52.161	48.829	45.885	43.266	40.923	11.6
15.1-17.0	16.8- 19.1	98.569	56.748	39.978	30.878	25.153	21.215	18.340	16.149	14.423	13.029	11.880	10.916	10.096	9.389	8.775	8.236	7.759	7.334	13.0
17.1-19.0	19.2- 21.6	55.801	31.542	21.832	16.630	13.402	11.210	9.626	8.429	7.494	6.744	6.129	5.616	5.182	4.809	4.486	4.204	3.954	3.732	14.2
19.1-21.0	21.7- 24.0	38.966	21.982	15.183	11.550	9.300	7.774	6.673	5.842	5.193	4.673	4.247	3.891	3.590	3.331	3.108	2.912	2.739	2.585	15.5
21.1-23.0	24.1- 26.4	29.824	16.834	11.628	8.846	7.124	5.955	5.112	4.476	3.979	3.581	3.254	2.982	2.751	2.553	2.382	2.232	2.099	1.982	16.6
23.1-25.0	26.5- 28.8	24.020	13.568	9.375	7.134	5.745	4.803	4.123	3.610	3.209	2.888	2.625	2.405	2.219	2.059	1.921	1.800	1.693	1.598	17.8
25.1-27.0	28.9- 31.2	19.985	11.297	7.808	5.942	4.786	4.001	3.434	3.007	2.673	2.405	2.186	2.002	1.847	1.714	1.599	1.498	1.409	1.330	18.8
27.1-29.0	31.3- 33.6	17.012	9.622	6.653	5.063	4.077	3.408	2.926	2.561	2.277	2.048	1.861	1.705	1.573	1.460	1.361	1.276	1.200	1.132	19.8
29.1-31.0	33.7- 35.9	14.729	8.337	5.766	4.388	3.534	2.954	2.535	2.219	1.972	1.774	1.612	1.477	1.362	1.264	1.179	1.104	1.039	0.980	20.8
31.1-33.0	36.0- 38.3	12.922	7.320	5.065	3.855	3.104	2.594	2.226	1.948	1.731	1.557	1.415	1.296	1.195	1.109	1.034	0.969	0.911	0.860	21.8
33.1-35.0	38.4- 40.6	11.459	6.497	4.498	3.424	2.757	2.304	1.977	1.730	1.537	1.382	1.256	1.150	1.060	0.984	0.917	0.859	0.808	0.763	22.6
35.1-37.0	40.7- 42.9	10.251	5.819	4.030	3.068	2.471	2.064	1.771	1.550	1.377	1.238	1.124	1.030	0.950	0.881	0.821	0.769	0.723	0.683	23.5
37.1-39.0	43.1- 45.3	9.239	5.252	3.640	2.772	2.232	1.865	1.600	1.399	1.243	1.118	1.015	0.929	0.857	0.795	0.741	0.694	0.653	0.616	24.3
39.1-41.0	45.4- 47.6	8.379	4.770	3.309	2.520	2.030	1.696	1.455	1.272	1.130	1.016	0.923	0.845	0.779	0.722	0.673	0.631	0.593	0.559	25.1
41.1-43.0	47.7- 49.8	7.641	4.358	3.026	2.306	1.857	1.551	1.331	1.164	1.034	0.929	0.844	0.772	0.712	0.660	0.616	0.576	0.542	0.511	25.8
43.1-45.0	50.0- 52.1	7.002	4.001	2.781	2.120	1.708	1.427	1.224	1.070	0.950	0.854	0.776	0.710	0.655	0.607	0.566	0.530	0.498	0.470	26.5
45.1-47.0	52.2- 54.4	6.443	3.690	2.568	1.959	1.578	1.319	1.131	0.989	0.878	0.789	0.717	0.656	0.605	0.561	0.522	0.489	0.460	0.434	27.1
47.1-49.0	54.5- 56.6	5.951	3.417	2.381	1.817	1.464	1.224	1.050	0.918	0.815	0.732	0.665	0.608	0.561	0.520	0.485	0.454	0.426	0.402	27.8
49.1-51.0	56.7- 58.9	5.515	3.175	2.215	1.692	1.364	1.140	0.978	0.855	0.759	0.682	0.619	0.567	0.522	0.484	0.451	0.422	0.397	0.374	28.4
51.1-53.0	59.0- 61.1	5.127	2.960	2.068	1.581	1.275	1.066	0.914	0.799	0.710	0.638	0.579	0.530	0.488	0.453	0.422	0.395	0.371	0.350	28.9
53.1-55.0	61.2- 63.3	4.779	2.767	1.937	1.482	1.196	1.000	0.858	0.750	0.666	0.598	0.543	0.497	0.458	0.424	0.395	0.370	0.348	0.328	29.5
55.1-57.0	63.4- 65.5	4.466	2.594	1.819	1.393	1.124	0.940	0.807	0.706	0.626	0.563	0.511	0.467	0.431	0.399	0.372	0.348	0.327	0.308	30.0
57.1-59.0	65.6- 67.7	4.183	2.438	1.713	1.313	1.060	0.887	0.761	0.666	0.591	0.531	0.482	0.441	0.406	0.377	0.351	0.328	0.309	0.291	30.5
59.1-61.0	67.8- 69.9	3.926	2.296	1.616	1.240	1.002	0.839	0.720	0.630	0.559	0.502	0.456	0.417	0.384	0.356	0.332	0.310	0.292	0.275	30.9
61.1-63.0	70.0- 72.0	3.692	2.167	1.529	1.174	0.950	0.795	0.682	0.597	0.530	0.476	0.432	0.395	0.364	0.338	0.314	0.294	0.277	0.261	31.4
63.1-65.0	72.1- 74.2	3.478	2.049	1.449	1.114	0.902	0.755	0.648	0.567	0.504	0.453	0.411	0.376	0.346	0.321	0.299	0.280	0.263	0.248	31.8
65.1-67.0	74.3- 76.3	3.282	1.941	1.376	1.059	0.858	0.719	0.617	0.540	0.480	0.431	0.391	0.358	0.330	0.305	0.284	0.266	0.250	0.236	32.2
67.1-69.0	76.4- 78.5	3.101	1.842	1.308	1.009	0.818	0.685	0.589	0.515	0.457	0.411	0.373	0.341	0.314	0.291	0.271	0.254	0.239	0.225	32.6
69.1-71.0	78.6- 80.6	2.935	1.750	1.246	0.963	0.781	0.655	0.563	0.492	0.437	0.393	0.357	0.326	0.301	0.278	0.259	0.243	0.228	0.215	32.9
71.1-73.0	80.7- 82.7	2.781	1.666	1.189	0.920	0.747	0.626	0.538	0.471	0.419	0.376	0.341	0.312	0.288	0.267	0.248	0.232	0.218	0.206	33.3
73.1-75.0	82.8- 84.8	2.639	1.587	1.136	0.880	0.715	0.600	0.516	0.452	0.401	0.361	0.327	0.300	0.276	0.256	0.238	0.223	0.209	0.197	33.6
75.1-77.0	84.9- 86.8	2.507	1.514	1.087	0.844	0.686	0.576	0.496	0.434	0.386	0.347	0.315	0.288	0.265	0.246	0.229	0.214	0.201	0.190	33.9
77.1-79.0	86.9- 88.9	2.384	1.447	1.041	0.809	0.659	0.554	0.476	0.417	0.371	0.333	0.303	0.277	0.255	0.236	0.220	0.206	0.193	0.182	34.2
79.1-81.0	89.0- 90.9	2.269	1.384	0.999	0.778	0.634	0.533	0.459	0.402	0.357	0.321	0.291	0.267	0.246	0.228	0.212	0.198	0.186	0.176	34.5

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

Table 58. Trees/m^3 of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: WHITE SPRUCE
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	16.8- 19.1	278.053	178.784	139.656	116.196	99.672	87.164	77.319	69.367	62.820	57.344	52.704	48.727	45.284	42.277	39.630	37.284	35.192	33.314	13.0
17.1-19.0	19.2- 21.6	84.483	49.352	35.233	27.508	22.603	19.201	16.697	14.776	13.253	12.016	10.991	10.128	9.390	8.753	8.197	7.707	7.272	6.884	14.2
19.1-21.0	21.7- 24.0	49.126	27.898	19.381	14.797	11.942	9.997	8.589	7.524	6.691	6.022	5.473	5.016	4.628	4.295	4.006	3.754	3.531	3.333	15.5
21.1-23.0	24.1- 26.4	34.645	19.548	13.502	10.267	8.261	6.901	5.920	5.180	4.602	4.139	3.759	3.443	3.175	2.946	2.747	2.573	2.420	2.284	16.6
23.1-25.0	26.5- 28.8	26.693	15.044	10.379	7.886	6.343	5.297	4.543	3.975	3.531	3.175	2.884	2.642	2.436	2.260	2.108	1.974	1.857	1.752	17.8
25.1-27.0	28.9- 31.2	21.619	12.188	8.409	6.389	5.139	4.292	3.681	3.220	2.861	2.573	2.337	2.140	1.974	1.831	1.708	1.600	1.504	1.420	18.8
27.1-29.0	31.3- 33.6	18.081	10.200	7.040	5.350	4.303	3.594	3.082	2.697	2.396	2.154	1.957	1.792	1.653	1.533	1.430	1.339	1.259	1.189	19.8
29.1-31.0	33.7- 35.9	15.464	8.732	6.030	4.583	3.687	3.079	2.640	2.310	2.052	1.845	1.676	1.535	1.415	1.313	1.224	1.147	1.078	1.018	20.8
31.1-33.0	36.0- 38.3	13.447	7.602	5.252	3.993	3.212	2.682	2.300	2.012	1.787	1.607	1.460	1.337	1.233	1.143	1.066	0.998	0.939	0.886	21.8
33.1-35.0	38.4- 40.6	11.845	6.704	4.635	3.524	2.835	2.368	2.031	1.776	1.577	1.418	1.288	1.179	1.087	1.009	0.940	0.881	0.828	0.781	22.6
35.1-37.0	40.7- 42.9	10.542	5.975	4.134	3.144	2.530	2.113	1.812	1.584	1.407	1.265	1.149	1.052	0.970	0.899	0.838	0.785	0.738	0.697	23.5
37.1-39.0	43.1- 45.3	9.463	5.372	3.719	2.830	2.277	1.902	1.631	1.426	1.266	1.138	1.034	0.946	0.872	0.809	0.754	0.706	0.664	0.626	24.3
39.1-41.0	45.4- 47.6	8.555	4.865	3.372	2.566	2.065	1.725	1.479	1.293	1.148	1.032	0.937	0.858	0.791	0.733	0.684	0.640	0.602	0.568	25.1
41.1-43.0	47.7- 49.8	7.781	4.434	3.076	2.342	1.885	1.575	1.350	1.180	1.048	0.942	0.855	0.783	0.722	0.669	0.624	0.584	0.549	0.518	25.8
43.1-45.0	50.0- 52.1	7.114	4.063	2.822	2.150	1.731	1.446	1.239	1.084	0.962	0.865	0.785	0.718	0.662	0.614	0.572	0.536	0.504	0.475	26.5
45.1-47.0	52.2- 54.4	6.535	3.740	2.601	1.983	1.597	1.334	1.144	1.000	0.888	0.798	0.724	0.663	0.611	0.566	0.528	0.494	0.464	0.438	27.1
47.1-49.0	54.5- 56.6	6.027	3.458	2.408	1.837	1.480	1.237	1.060	0.927	0.823	0.739	0.671	0.614	0.566	0.525	0.489	0.458	0.430	0.406	27.8
49.1-51.0	56.7- 58.9	5.578	3.210	2.238	1.709	1.377	1.151	0.987	0.863	0.766	0.688	0.625	0.571	0.527	0.488	0.455	0.426	0.400	0.377	28.4
51.1-53.0	59.0- 61.1	5.180	2.989	2.088	1.596	1.286	1.075	0.922	0.806	0.715	0.643	0.583	0.534	0.492	0.456	0.425	0.398	0.374	0.352	28.9
53.1-55.0	61.2- 63.3	4.824	2.792	1.954	1.494	1.205	1.007	0.864	0.755	0.671	0.603	0.547	0.500	0.461	0.427	0.398	0.373	0.350	0.330	29.5
55.1-57.0	63.4- 65.5	4.504	2.615	1.833	1.404	1.133	0.947	0.812	0.710	0.631	0.567	0.514	0.470	0.433	0.402	0.374	0.350	0.329	0.310	30.0
57.1-59.0	65.6- 67.7	4.215	2.456	1.725	1.322	1.068	0.893	0.766	0.670	0.595	0.534	0.485	0.443	0.409	0.379	0.353	0.330	0.310	0.292	30.5
59.1-61.0	67.8- 69.9	3.954	2.312	1.627	1.248	1.009	0.844	0.724	0.633	0.562	0.505	0.458	0.419	0.386	0.358	0.333	0.312	0.293	0.276	30.9
61.1-63.0	70.0- 72.0	3.716	2.181	1.538	1.182	0.955	0.800	0.686	0.600	0.533	0.479	0.434	0.397	0.366	0.339	0.316	0.296	0.278	0.262	31.4
63.1-65.0	72.1- 74.2	3.499	2.061	1.457	1.121	0.907	0.759	0.652	0.570	0.506	0.455	0.413	0.377	0.348	0.322	0.300	0.281	0.264	0.249	31.8
65.1-67.0	74.3- 76.3	3.300	1.952	1.383	1.065	0.862	0.722	0.620	0.543	0.482	0.433	0.393	0.359	0.331	0.307	0.286	0.267	0.251	0.237	32.2
67.1-69.0	76.4- 78.5	3.117	1.851	1.315	1.014	0.822	0.689	0.591	0.517	0.459	0.413	0.375	0.343	0.316	0.293	0.272	0.255	0.239	0.226	32.6
69.1-71.0	78.6- 80.6	2.949	1.759	1.252	0.967	0.784	0.658	0.565	0.494	0.439	0.395	0.358	0.327	0.302	0.280	0.260	0.244	0.229	0.216	32.9
71.1-73.0	80.7- 82.7	2.794	1.673	1.195	0.924	0.750	0.629	0.541	0.473	0.420	0.378	0.343	0.313	0.289	0.268	0.249	0.233	0.219	0.206	33.3
73.1-75.0	82.8- 84.8	2.650	1.594	1.141	0.884	0.718	0.603	0.518	0.454	0.403	0.362	0.329	0.301	0.277	0.257	0.239	0.224	0.210	0.198	33.6
75.1-77.0	84.9- 86.8	2.516	1.520	1.092	0.847	0.689	0.578	0.497	0.436	0.387	0.348	0.316	0.289	0.266	0.246	0.230	0.215	0.202	0.190	33.9
77.1-79.0	86.9- 88.9	2.392	1.452	1.045	0.812	0.661	0.556	0.478	0.419	0.372	0.334	0.304	0.278	0.256	0.237	0.221	0.207	0.194	0.183	34.2
79.1-81.0	89.0- 90.9	2.277	1.388	1.002	0.780	0.636	0.535	0.460	0.403	0.358	0.322	0.292	0.267	0.246	0.228	0.213	0.199	0.187	0.176	34.5

13.0 NUMBER OF TREES PER CUBIC METRE OF MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 1 TO 6, 12, 13, 15, 16

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

Table 59. Trees/m^3 of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	5.3- 7.5	582.387	333.614	233.093	178.873	145.000	121.850	105.037	92.277	82.266	74.203	67.571	62.022	57.311	53.261	49.743	46.659	43.933	41.506	6.5
7.1- 9.0	7.6- 9.8	178.312	107.457	76.759	59.651	48.755	41.210	35.679	31.452	28.116	25.418	23.190	21.319	19.727	18.355	17.161	16.111	15.183	14.355	8.5
9.1-11.0	9.9- 12.1	103.071	62.463	44.737	34.820	28.489	24.099	20.876	18.410	16.464	14.888	13.586	12.492	11.561	10.759	10.060	9.446	8.902	8.417	10.4
11.1-13.0	12.2- 14.4	69.851	42.320	30.308	23.590	19.300	16.326	14.143	12.473	11.154	10.086	9.204	8.463	7.832	7.289	6.815	6.399	6.031	5.702	12.3
13.1-15.0	14.5- 16.7	51.264	30.997	22.180	17.255	14.113	11.936	10.338	9.116	8.151	7.370	6.725	6.184	5.722	5.325	4.979	4.675	4.405	4.165	14.0
15.1-17.0	16.8- 19.0	39.561	23.858	17.051	13.256	10.838	9.163	7.935	6.996	6.254	5.655	5.159	4.743	4.389	4.084	3.818	3.585	3.378	3.194	15.6
17.1-19.0	19.1- 21.3	31.629	19.020	13.576	10.547	8.619	7.284	6.306	5.559	4.969	4.492	4.098	3.767	3.486	3.243	3.032	2.846	2.682	2.536	17.1
19.1-21.0	21.4- 23.6	25.967	15.570	11.099	8.616	7.037	5.946	5.146	4.535	4.053	3.663	3.342	3.072	2.842	2.644	2.472	2.320	2.186	2.067	18.4
21.1-23.0	23.7- 25.9	21.768	13.015	9.265	7.187	5.867	4.955	4.287	3.778	3.376	3.051	2.783	2.558	2.366	2.201	2.057	1.931	1.820	1.720	19.7
23.1-25.0	26.0- 28.2	18.558	11.064	7.866	6.097	4.975	4.200	3.633	3.201	2.860	2.584	2.357	2.166	2.003	1.864	1.742	1.635	1.540	1.456	20.8
25.1-27.0	28.3- 30.5	16.042	9.538	6.773	5.245	4.278	3.611	3.122	2.750	2.457	2.220	2.024	1.860	1.720	1.600	1.496	1.404	1.323	1.250	21.9
27.1-29.0	30.6- 32.7	14.030	8.320	5.900	4.567	3.723	3.141	2.716	2.391	2.136	1.929	1.759	1.616	1.495	1.390	1.299	1.220	1.149	1.086	22.8
29.1-31.0	32.8- 35.0	12.394	7.331	5.193	4.016	3.273	2.760	2.386	2.100	1.876	1.694	1.545	1.419	1.312	1.221	1.141	1.071	1.008	0.953	23.6
31.1-33.0	35.1- 37.3	11.042	6.516	4.611	3.564	2.902	2.447	2.115	1.861	1.662	1.501	1.368	1.257	1.162	1.081	1.010	0.948	0.893	0.844	24.4
33.1-35.0	37.4- 39.6	9.912	5.836	4.125	3.186	2.594	2.186	1.889	1.662	1.484	1.340	1.221	1.122	1.037	0.965	0.901	0.846	0.797	0.753	25.1
35.1-37.0	39.7- 41.8	8.957	5.262	3.715	2.868	2.334	1.967	1.699	1.495	1.334	1.205	1.098	1.008	0.932	0.867	0.810	0.760	0.716	0.677	25.7
37.1-39.0	42.0- 44.1	8.141	4.773	3.367	2.597	2.113	1.780	1.537	1.352	1.207	1.089	0.993	0.912	0.843	0.784	0.732	0.687	0.647	0.612	26.3
39.1-41.0	44.2- 46.4	7.438	4.352	3.067	2.365	1.923	1.619	1.398	1.230	1.097	0.991	0.903	0.829	0.766	0.712	0.666	0.625	0.588	0.556	26.8
41.1-43.0	46.5- 48.7	6.828	3.988	2.808	2.164	1.759	1.481	1.278	1.124	1.003	0.905	0.825	0.757	0.700	0.651	0.608	0.570	0.537	0.508	27.2
43.1-45.0	48.8- 50.9	6.294	3.670	2.582	1.989	1.616	1.360	1.174	1.032	0.921	0.831	0.757	0.695	0.642	0.597	0.558	0.523	0.493	0.466	27.6
45.1-47.0	51.0- 53.2	5.824	3.390	2.383	1.835	1.490	1.254	1.082	0.951	0.849	0.766	0.697	0.640	0.592	0.550	0.514	0.482	0.454	0.429	28.0
47.1-49.0	53.3- 55.4	5.408	3.143	2.208	1.699	1.380	1.161	1.001	0.880	0.785	0.708	0.645	0.592	0.547	0.509	0.475	0.446	0.420	0.397	28.3
49.1-51.0	55.6- 57.7	5.037	2.924	2.053	1.579	1.282	1.078	0.930	0.817	0.729	0.657	0.599	0.550	0.508	0.472	0.441	0.414	0.389	0.368	28.6
51.1-53.0	57.8- 60.0	4.706	2.728	1.914	1.472	1.194	1.004	0.866	0.761	0.678	0.612	0.557	0.512	0.473	0.439	0.410	0.385	0.362	0.342	28.9
53.1-55.0	60.1- 62.2	4.408	2.552	1.790	1.375	1.116	0.938	0.809	0.711	0.634	0.571	0.520	0.478	0.441	0.410	0.383	0.359	0.338	0.320	29.1
55.1-57.0	62.3- 64.5	4.139	2.394	1.678	1.289	1.045	0.879	0.757	0.665	0.593	0.535	0.487	0.447	0.413	0.384	0.358	0.336	0.317	0.299	29.3
57.1-59.0	64.6- 66.7	3.896	2.251	1.577	1.211	0.982	0.825	0.711	0.625	0.557	0.502	0.457	0.420	0.388	0.360	0.336	0.315	0.297	0.281	29.5
59.1-61.0	66.8- 69.0	3.674	2.121	1.485	1.140	0.924	0.776	0.669	0.588	0.524	0.472	0.430	0.395	0.365	0.339	0.316	0.297	0.279	0.264	29.7
61.1-63.0	69.1- 71.2	3.472	2.003	1.401	1.076	0.872	0.732	0.631	0.554	0.494	0.445	0.405	0.372	0.344	0.319	0.298	0.280	0.263	0.249	29.9
63.1-65.0	71.3- 73.5	3.287	1.895	1.325	1.017	0.824	0.692	0.596	0.524	0.467	0.421	0.383	0.351	0.325	0.301	0.281	0.264	0.248	0.235	30.0
65.1-67.0	73.6- 75.7	3.118	1.795	1.256	0.963	0.780	0.655	0.565	0.496	0.442	0.398	0.362	0.332	0.307	0.285	0.266	0.250	0.235	0.222	30.1
67.1-69.0	75.8- 77.9	2.961	1.704	1.192	0.914	0.740	0.622	0.535	0.470	0.419	0.377	0.344	0.315	0.291	0.270	0.252	0.237	0.223	0.210	30.2
69.1-71.0	78.1- 80.2	2.817	1.621	1.133	0.869	0.703	0.591	0.509	0.446	0.398	0.358	0.326	0.299	0.276	0.257	0.240	0.225	0.212	0.200	30.3
71.1-73.0	80.3- 82.4	2.684	1.543	1.078	0.827	0.669	0.562	0.484	0.425	0.378	0.341	0.310	0.285	0.263	0.244	0.228	0.214	0.201	0.190	30.4
73.1-75.0	82.5- 84.6	2.560	1.472	1.028	0.788	0.638	0.536	0.461	0.405	0.360	0.325	0.296	0.271	0.250	0.233	0.217	0.204	0.192	0.181	30.5
75.1-77.0	84.8- 86.9	2.445	1.405	0.982	0.752	0.609	0.511	0.440	0.386	0.344	0.310	0.282	0.259	0.239	0.222	0.207	0.194	0.183	0.173	30.6
77.1-79.0	87.0- 89.1	2.338	1.343	0.938	0.719	0.582	0.488	0.420	0.369	0.329	0.296	0.269	0.247	0.228	0.212	0.198	0.185	0.174	0.165	30.6
79.1-81.0	89.2- 91.3	2.238	1.286	0.898	0.688	0.557	0.467	0.402	0.353	0.314	0.283	0.258	0.236	0.218	0.203	0.189	0.177	0.167	0.158	30.7

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Table 60. Trees/m^3 of merchantable volume at 0.30 m stump height and 7.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	7.6- 9.8	501.098	275.090	189.132	143.908	116.037	97.153	83.520	73.220	65.167	58.699	53.391	48.958	45.200	41.974	39.176	36.725	34.562	32.637	8.5
9.1-11.0	9.9- 12.1	136.870	81.021	57.416	44.417	36.196	30.532	26.394	23.239	20.755	18.748	17.094	15.707	14.527	13.511	12.628	11.852	11.166	10.555	10.4
11.1-13.0	12.2- 14.4	80.021	47.898	34.113	26.467	21.610	18.253	15.795	13.918	12.439	11.242	10.255	9.426	8.721	8.113	7.584	7.120	6.709	6.343	12.3
13.1-15.0	14.5- 16.7	55.508	33.306	23.748	18.437	15.061	12.725	11.014	9.707	8.677	7.843	7.155	6.577	6.085	5.662	5.293	4.969	4.682	4.427	14.0
15.1-17.0	16.8- 19.0	41.668	24.992	17.817	13.832	11.298	9.546	8.262	7.282	6.509	5.883	5.367	4.933	4.565	4.247	3.970	3.727	3.512	3.320	15.6
17.1-19.0	19.1- 21.3	32.799	19.642	13.994	10.859	8.868	7.491	6.483	5.713	5.106	4.615	4.210	3.870	3.580	3.331	3.114	2.923	2.754	2.604	17.1
19.1-21.0	21.4- 23.6	26.672	15.940	11.346	8.800	7.183	6.067	5.249	4.625	4.133	3.735	3.407	3.132	2.897	2.695	2.519	2.365	2.228	2.107	18.4
21.1-23.0	23.7- 25.9	22.219	13.248	9.420	7.302	5.958	5.030	4.352	3.834	3.425	3.095	2.823	2.595	2.400	2.233	2.087	1.959	1.846	1.745	19.7
23.1-25.0	26.0- 28.2	18.860	11.219	7.968	6.172	5.034	4.249	3.675	3.237	2.892	2.613	2.383	2.190	2.026	1.884	1.761	1.653	1.557	1.472	20.8
25.1-27.0	28.3- 30.5	16.252	9.645	6.842	5.297	4.318	3.644	3.151	2.775	2.479	2.239	2.042	1.876	1.735	1.614	1.509	1.416	1.334	1.261	21.9
27.1-29.0	30.6- 32.7	14.182	8.396	5.950	4.603	3.751	3.164	2.735	2.408	2.151	1.943	1.772	1.628	1.505	1.400	1.309	1.228	1.157	1.094	22.8
29.1-31.0	32.8- 35.0	12.506	7.386	5.229	4.043	3.293	2.777	2.400	2.113	1.887	1.704	1.553	1.427	1.320	1.227	1.147	1.077	1.014	0.959	23.6
31.1-33.0	35.1- 37.3	11.127	6.558	4.637	3.583	2.917	2.459	2.125	1.870	1.670	1.508	1.375	1.263	1.168	1.086	1.015	0.952	0.897	0.848	24.4
33.1-35.0	37.4- 39.6	9.978	5.868	4.145	3.201	2.605	2.196	1.897	1.669	1.490	1.345	1.226	1.126	1.042	0.969	0.905	0.849	0.800	0.756	25.1
35.1-37.0	39.7- 41.8	9.009	5.287	3.731	2.879	2.343	1.974	1.705	1.500	1.339	1.209	1.102	1.012	0.935	0.870	0.813	0.763	0.718	0.679	25.7
37.1-39.0	42.0- 44.1	8.182	4.793	3.379	2.606	2.120	1.785	1.542	1.356	1.210	1.093	0.996	0.914	0.845	0.786	0.734	0.689	0.649	0.613	26.3
39.1-41.0	44.2- 46.4	7.471	4.368	3.077	2.372	1.928	1.624	1.402	1.233	1.100	0.993	0.905	0.831	0.768	0.714	0.667	0.626	0.590	0.557	26.8
41.1-43.0	46.5- 48.7	6.855	4.001	2.816	2.170	1.763	1.484	1.281	1.127	1.005	0.907	0.827	0.759	0.702	0.652	0.609	0.572	0.538	0.509	27.2
43.1-45.0	48.8- 50.9	6.316	3.680	2.588	1.993	1.619	1.363	1.176	1.034	0.922	0.833	0.758	0.696	0.644	0.598	0.559	0.524	0.494	0.467	27.6
45.1-47.0	51.0- 53.2	5.843	3.399	2.389	1.839	1.493	1.256	1.084	0.953	0.850	0.767	0.699	0.642	0.593	0.551	0.515	0.483	0.455	0.430	28.0
47.1-49.0	53.3- 55.4	5.424	3.151	2.213	1.702	1.382	1.163	1.003	0.882	0.786	0.709	0.646	0.593	0.548	0.510	0.476	0.446	0.420	0.397	28.3
49.1-51.0	55.6- 57.7	5.051	2.930	2.056	1.582	1.284	1.079	0.931	0.818	0.730	0.658	0.600	0.550	0.509	0.473	0.441	0.414	0.390	0.368	28.6
51.1-53.0	57.8- 60.0	4.717	2.733	1.917	1.474	1.196	1.005	0.867	0.762	0.679	0.613	0.558	0.512	0.473	0.440	0.411	0.385	0.363	0.343	28.9
53.1-55.0	60.1- 62.2	4.418	2.557	1.792	1.377	1.117	0.939	0.810	0.711	0.634	0.572	0.521	0.478	0.442	0.411	0.383	0.360	0.339	0.320	29.1
55.1-57.0	62.3- 64.5	4.148	2.398	1.680	1.291	1.047	0.880	0.758	0.666	0.594	0.536	0.488	0.448	0.414	0.384	0.359	0.337	0.317	0.299	29.3
57.1-59.0	64.6- 66.7	3.903	2.254	1.579	1.212	0.983	0.826	0.712	0.625	0.557	0.503	0.458	0.420	0.388	0.360	0.337	0.316	0.297	0.281	29.5
59.1-61.0	66.8- 69.0	3.681	2.124	1.487	1.141	0.925	0.777	0.670	0.588	0.524	0.473	0.430	0.395	0.365	0.339	0.317	0.297	0.279	0.264	29.7
61.1-63.0	69.1- 71.2	3.478	2.005	1.403	1.077	0.873	0.733	0.632	0.555	0.494	0.446	0.406	0.372	0.344	0.319	0.298	0.280	0.263	0.249	29.9
63.1-65.0	71.3- 73.5	3.293	1.897	1.327	1.018	0.825	0.693	0.597	0.524	0.467	0.421	0.383	0.352	0.325	0.302	0.282	0.264	0.249	0.235	30.0
65.1-67.0	73.6- 75.7	3.122	1.798	1.257	0.964	0.781	0.656	0.565	0.496	0.442	0.398	0.363	0.333	0.307	0.285	0.267	0.250	0.235	0.222	30.1
67.1-69.0	75.8- 77.9	2.966	1.706	1.193	0.915	0.741	0.622	0.536	0.470	0.419	0.378	0.344	0.315	0.291	0.271	0.253	0.237	0.223	0.211	30.2
69.1-71.0	78.1- 80.2	2.821	1.622	1.134	0.869	0.704	0.591	0.509	0.447	0.398	0.359	0.326	0.299	0.277	0.257	0.240	0.225	0.212	0.200	30.3
71.1-73.0	80.3- 82.4	2.687	1.545	1.079	0.827	0.670	0.562	0.484	0.425	0.379	0.341	0.310	0.285	0.263	0.244	0.228	0.214	0.201	0.190	30.4
73.1-75.0	82.5- 84.6	2.563	1.473	1.029	0.789	0.639	0.536	0.461	0.405	0.361	0.325	0.296	0.271	0.251	0.233	0.217	0.204	0.192	0.181	30.5
75.1-77.0	84.8- 86.9	2.448	1.406	0.982	0.753	0.609	0.511	0.440	0.386	0.344	0.310	0.282	0.259	0.239	0.222	0.207	0.194	0.183	0.173	30.6
77.1-79.0	87.0- 89.1	2.341	1.344	0.939	0.720	0.582	0.489	0.421	0.369	0.329	0.296	0.269	0.247	0.228	0.212	0.198	0.185	0.175	0.165	30.6
79.1-81.0	89.2- 91.3	2.241	1.287	0.899	0.689	0.557	0.468	0.402	0.353	0.314	0.283	0.258	0.236	0.218	0.203	0.189	0.177	0.167	0.158	30.7

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

Table 61. Trees/m^3 of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	12.2- 14.4	173.296	97.985	68.173	52.214	42.281	35.506	30.593	26.867	23.946	21.595	19.662	18.044	16.672	15.492	14.467	13.569	12.776	12.069	12.3
13.1-15.0	14.5- 16.7	77.810	45.437	32.006	24.675	20.064	16.898	14.591	12.836	11.455	10.342	9.425	8.657	8.004	7.442	6.954	6.525	6.146	5.808	14.0
15.1-17.0	16.8- 19.0	50.570	29.819	21.094	16.303	13.277	11.195	9.675	8.517	7.605	6.869	6.262	5.753	5.321	4.948	4.625	4.340	4.089	3.865	15.6
17.1-19.0	19.1- 21.3	37.208	22.017	15.600	12.067	9.834	8.295	7.171	6.314	5.639	5.094	4.645	4.268	3.948	3.672	3.432	3.221	3.034	2.868	17.1
19.1-21.0	21.4- 23.6	29.146	17.262	12.235	9.467	7.716	6.509	5.628	4.955	4.426	3.998	3.646	3.350	3.099	2.882	2.694	2.528	2.382	2.252	18.4
21.1-23.0	23.7- 25.9	23.728	14.048	9.955	7.702	6.277	5.295	4.577	4.031	3.600	3.252	2.965	2.725	2.520	2.344	2.191	2.056	1.937	1.831	19.7
23.1-25.0	26.0- 28.2	19.839	11.732	8.310	6.427	5.237	4.417	3.818	3.362	3.002	2.712	2.473	2.272	2.101	1.954	1.827	1.714	1.615	1.527	20.8
25.1-27.0	28.3- 30.5	16.918	9.990	7.071	5.467	4.453	3.755	3.246	2.857	2.552	2.305	2.101	1.931	1.785	1.661	1.552	1.456	1.372	1.297	21.9
27.1-29.0	30.6- 32.7	14.651	8.638	6.109	4.721	3.844	3.241	2.801	2.465	2.201	1.988	1.812	1.665	1.540	1.432	1.338	1.256	1.183	1.118	22.8
29.1-31.0	32.8- 35.0	12.848	7.561	5.343	4.127	3.360	2.832	2.447	2.153	1.922	1.736	1.583	1.454	1.344	1.250	1.168	1.096	1.033	0.976	23.6
31.1-33.0	35.1- 37.3	11.383	6.687	4.722	3.645	2.966	2.500	2.159	1.900	1.696	1.532	1.396	1.282	1.186	1.102	1.030	0.967	0.911	0.861	24.4
33.1-35.0	37.4- 39.6	10.173	5.966	4.209	3.247	2.642	2.226	1.922	1.691	1.509	1.363	1.242	1.141	1.055	0.981	0.916	0.860	0.810	0.765	25.1
35.1-37.0	39.7- 41.8	9.160	5.362	3.780	2.915	2.371	1.997	1.724	1.517	1.354	1.222	1.114	1.023	0.946	0.879	0.821	0.771	0.726	0.686	25.7
37.1-39.0	42.0- 44.1	8.302	4.852	3.417	2.634	2.141	1.803	1.557	1.369	1.222	1.103	1.005	0.923	0.853	0.793	0.741	0.695	0.655	0.619	26.3
39.1-41.0	44.2- 46.4	7.568	4.415	3.107	2.394	1.946	1.638	1.414	1.243	1.109	1.001	0.912	0.838	0.774	0.720	0.673	0.631	0.594	0.562	26.8
41.1-43.0	46.5- 48.7	6.933	4.039	2.840	2.187	1.777	1.495	1.291	1.135	1.012	0.914	0.832	0.764	0.706	0.657	0.613	0.576	0.542	0.512	27.2
43.1-45.0	48.8- 50.9	6.381	3.712	2.608	2.008	1.630	1.372	1.184	1.041	0.928	0.838	0.763	0.701	0.648	0.602	0.562	0.527	0.497	0.469	27.6
45.1-47.0	51.0- 53.2	5.896	3.425	2.405	1.850	1.502	1.264	1.090	0.958	0.855	0.771	0.703	0.645	0.596	0.554	0.518	0.485	0.457	0.432	28.0
47.1-49.0	53.3- 55.4	5.469	3.172	2.226	1.712	1.390	1.169	1.008	0.886	0.790	0.713	0.649	0.596	0.551	0.512	0.478	0.449	0.422	0.399	28.3
49.1-51.0	55.6- 57.7	5.089	2.948	2.068	1.590	1.290	1.085	0.935	0.822	0.733	0.661	0.602	0.553	0.511	0.475	0.443	0.416	0.392	0.370	28.6
51.1-53.0	57.8- 60.0	4.750	2.749	1.927	1.481	1.201	1.010	0.871	0.765	0.682	0.615	0.560	0.514	0.475	0.442	0.412	0.387	0.364	0.344	28.9
53.1-55.0	60.1- 62.2	4.446	2.570	1.801	1.383	1.122	0.943	0.813	0.714	0.637	0.574	0.523	0.480	0.443	0.412	0.385	0.361	0.340	0.321	29.1
55.1-57.0	62.3- 64.5	4.172	2.409	1.687	1.296	1.050	0.883	0.761	0.668	0.596	0.537	0.489	0.449	0.415	0.385	0.360	0.338	0.318	0.300	29.3
57.1-59.0	64.6- 66.7	3.924	2.264	1.585	1.217	0.986	0.829	0.714	0.627	0.559	0.504	0.459	0.421	0.389	0.362	0.338	0.317	0.298	0.282	29.5
59.1-61.0	66.8- 69.0	3.699	2.132	1.492	1.145	0.928	0.780	0.672	0.590	0.526	0.474	0.432	0.396	0.366	0.340	0.317	0.298	0.280	0.265	29.7
61.1-63.0	69.1- 71.2	3.494	2.013	1.408	1.080	0.875	0.735	0.633	0.556	0.496	0.447	0.407	0.373	0.345	0.320	0.299	0.280	0.264	0.249	29.9
63.1-65.0	71.3- 73.5	3.307	1.903	1.331	1.021	0.827	0.694	0.598	0.525	0.468	0.422	0.384	0.352	0.325	0.302	0.282	0.265	0.249	0.235	30.0
65.1-67.0	73.6- 75.7	3.135	1.803	1.261	0.967	0.783	0.657	0.566	0.497	0.443	0.399	0.363	0.333	0.308	0.286	0.267	0.250	0.236	0.223	30.1
67.1-69.0	75.8- 77.9	2.977	1.712	1.196	0.917	0.743	0.623	0.537	0.471	0.420	0.378	0.344	0.316	0.292	0.271	0.253	0.237	0.223	0.211	30.2
69.1-71.0	78.1- 80.2	2.831	1.627	1.137	0.871	0.705	0.592	0.510	0.448	0.399	0.359	0.327	0.300	0.277	0.257	0.240	0.225	0.212	0.200	30.3
71.1-73.0	80.3- 82.4	2.696	1.549	1.082	0.829	0.671	0.563	0.485	0.426	0.379	0.342	0.311	0.285	0.263	0.245	0.228	0.214	0.202	0.190	30.4
73.1-75.0	82.5- 84.6	2.571	1.477	1.031	0.790	0.640	0.537	0.462	0.406	0.361	0.326	0.296	0.272	0.251	0.233	0.218	0.204	0.192	0.181	30.5
75.1-77.0	84.8- 86.9	2.455	1.410	0.984	0.754	0.610	0.512	0.441	0.387	0.345	0.311	0.283	0.259	0.239	0.222	0.207	0.194	0.183	0.173	30.6
77.1-79.0	87.0- 89.1	2.347	1.347	0.941	0.721	0.583	0.489	0.421	0.370	0.329	0.297	0.270	0.247	0.229	0.212	0.198	0.186	0.175	0.165	30.6
79.1-81.0	89.2- 91.3	2.247	1.289	0.900	0.690	0.558	0.468	0.403	0.354	0.315	0.284	0.258	0.237	0.219	0.203	0.189	0.178	0.167	0.158	30.7

Table 62. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	12.2- 14.4	455.801	230.659	154.757	116.417	93.246	77.723	66.599	58.238	51.727	46.513	42.245	38.689	35.679	33.101	30.866	28.912	27.189	25.658	12.3
13.1-15.0	14.5- 16.7	100.843	57.886	40.494	31.101	25.227	21.210	18.291	16.074	14.335	12.933	11.780	10.814	9.994	9.290	8.677	8.140	7.665	7.243	14.0
15.1-17.0	16.8- 19.0	57.309	33.477	23.583	18.182	14.784	12.452	10.752	9.459	8.442	7.621	6.946	6.379	5.898	5.484	5.124	4.809	4.529	4.281	15.6
17.1-19.0	19.1- 21.3	40.097	23.580	16.659	12.866	10.473	8.828	7.627	6.713	5.993	5.412	4.934	4.533	4.192	3.898	3.643	3.419	3.220	3.044	17.1
19.1-21.0	21.4- 23.6	30.640	18.065	12.778	9.875	8.042	6.781	5.860	5.158	4.606	4.160	3.793	3.485	3.223	2.997	2.801	2.629	2.476	2.341	18.4
21.1-23.0	23.7- 25.9	24.594	14.510	10.266	7.935	6.463	5.449	4.710	4.146	3.702	3.344	3.049	2.801	2.590	2.409	2.252	2.113	1.991	1.882	19.7
23.1-25.0	26.0- 28.2	20.381	12.019	8.502	6.571	5.351	4.512	3.899	3.433	3.065	2.768	2.524	2.319	2.144	1.994	1.864	1.749	1.648	1.558	20.8
25.1-27.0	28.3- 30.5	17.277	10.179	7.197	5.561	4.528	3.817	3.299	2.903	2.592	2.341	2.134	1.961	1.813	1.686	1.576	1.479	1.393	1.317	21.9
27.1-29.0	30.6- 32.7	14.900	8.767	6.195	4.785	3.895	3.283	2.837	2.497	2.229	2.013	1.835	1.686	1.559	1.450	1.355	1.271	1.197	1.132	22.8
29.1-31.0	32.8- 35.0	13.026	7.653	5.404	4.172	3.395	2.861	2.472	2.175	1.942	1.753	1.598	1.468	1.358	1.262	1.180	1.107	1.043	0.985	23.6
31.1-33.0	35.1- 37.3	11.514	6.754	4.766	3.678	2.992	2.521	2.177	1.916	1.710	1.544	1.407	1.293	1.195	1.111	1.038	0.974	0.918	0.867	24.4
33.1-35.0	37.4- 39.6	10.272	6.016	4.242	3.272	2.661	2.241	1.936	1.703	1.520	1.372	1.250	1.148	1.062	0.987	0.922	0.866	0.815	0.770	25.1
35.1-37.0	39.7- 41.8	9.237	5.401	3.805	2.934	2.385	2.009	1.734	1.525	1.361	1.229	1.120	1.028	0.951	0.884	0.826	0.775	0.730	0.690	25.7
37.1-39.0	42.0- 44.1	8.363	4.882	3.437	2.648	2.153	1.812	1.564	1.376	1.228	1.108	1.010	0.927	0.857	0.797	0.745	0.699	0.658	0.622	26.3
39.1-41.0	44.2- 46.4	7.616	4.439	3.123	2.405	1.954	1.645	1.420	1.249	1.114	1.005	0.916	0.841	0.778	0.723	0.675	0.634	0.597	0.564	26.8
41.1-43.0	46.5- 48.7	6.972	4.058	2.853	2.196	1.784	1.501	1.295	1.139	1.016	0.917	0.835	0.767	0.709	0.659	0.616	0.578	0.544	0.514	27.2
43.1-45.0	48.8- 50.9	6.413	3.727	2.618	2.015	1.636	1.377	1.188	1.044	0.931	0.840	0.765	0.703	0.650	0.604	0.564	0.529	0.498	0.471	27.6
45.1-47.0	51.0- 53.2	5.923	3.438	2.413	1.856	1.507	1.268	1.093	0.961	0.857	0.773	0.704	0.647	0.598	0.556	0.519	0.487	0.458	0.433	28.0
47.1-49.0	53.3- 55.4	5.491	3.183	2.233	1.717	1.393	1.172	1.011	0.888	0.792	0.715	0.651	0.597	0.552	0.513	0.479	0.450	0.423	0.400	28.3
49.1-51.0	55.6- 57.7	5.107	2.957	2.074	1.594	1.293	1.087	0.937	0.824	0.735	0.663	0.603	0.554	0.512	0.476	0.444	0.417	0.392	0.371	28.6
51.1-53.0	57.8- 60.0	4.766	2.756	1.932	1.484	1.204	1.012	0.872	0.767	0.683	0.616	0.561	0.515	0.476	0.442	0.413	0.388	0.365	0.345	28.9
53.1-55.0	60.1- 62.2	4.459	2.576	1.805	1.386	1.124	0.945	0.814	0.715	0.638	0.575	0.524	0.481	0.444	0.413	0.385	0.361	0.340	0.322	29.1
55.1-57.0	62.3- 64.5	4.184	2.415	1.691	1.298	1.052	0.884	0.762	0.669	0.597	0.538	0.490	0.450	0.415	0.386	0.361	0.338	0.318	0.301	29.3
57.1-59.0	64.6- 66.7	3.934	2.269	1.588	1.219	0.988	0.830	0.715	0.628	0.560	0.505	0.460	0.422	0.390	0.362	0.338	0.317	0.298	0.282	29.5
59.1-61.0	66.8- 69.0	3.708	2.137	1.495	1.147	0.929	0.781	0.673	0.591	0.526	0.475	0.432	0.397	0.366	0.340	0.318	0.298	0.281	0.265	29.7
61.1-63.0	69.1- 71.2	3.502	2.016	1.410	1.082	0.876	0.736	0.634	0.557	0.496	0.447	0.407	0.374	0.345	0.321	0.299	0.281	0.264	0.250	29.9
63.1-65.0	71.3- 73.5	3.313	1.907	1.333	1.022	0.828	0.695	0.599	0.526	0.469	0.422	0.384	0.353	0.326	0.303	0.283	0.265	0.249	0.236	30.0
65.1-67.0	73.6- 75.7	3.141	1.806	1.262	0.968	0.784	0.658	0.567	0.498	0.443	0.400	0.364	0.334	0.308	0.286	0.267	0.251	0.236	0.223	30.1
67.1-69.0	75.8- 77.9	2.982	1.714	1.198	0.918	0.743	0.624	0.537	0.472	0.420	0.379	0.345	0.316	0.292	0.271	0.253	0.238	0.224	0.211	30.2
69.1-71.0	78.1- 80.2	2.836	1.629	1.138	0.872	0.706	0.593	0.510	0.448	0.399	0.360	0.327	0.300	0.277	0.258	0.240	0.225	0.212	0.200	30.3
71.1-73.0	80.3- 82.4	2.700	1.551	1.083	0.830	0.672	0.564	0.486	0.426	0.380	0.342	0.311	0.286	0.264	0.245	0.229	0.214	0.202	0.191	30.4
73.1-75.0	82.5- 84.6	2.575	1.478	1.032	0.791	0.640	0.537	0.463	0.406	0.362	0.326	0.296	0.272	0.251	0.233	0.218	0.204	0.192	0.181	30.5
75.1-77.0	84.8- 86.9	2.459	1.411	0.985	0.755	0.611	0.513	0.441	0.387	0.345	0.311	0.283	0.259	0.239	0.222	0.208	0.195	0.183	0.173	30.6
77.1-79.0	87.0- 89.1	2.350	1.349	0.942	0.721	0.584	0.490	0.422	0.370	0.329	0.297	0.270	0.248	0.229	0.212	0.198	0.186	0.175	0.165	30.6
79.1-81.0	89.2- 91.3	2.249	1.291	0.901	0.690	0.559	0.469	0.403	0.354	0.315	0.284	0.258	0.237	0.219	0.203	0.190	0.178	0.167	0.158	30.7

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

Table 63. Trees/m^3 of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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- 16.7	445.316	216.660	143.874	107.716	86.028	71.560	61.222	53.468	47.439	42.619	38.678	35.396	32.623	30.248	28.191	26.394	24.810	23.404	14.0
15.1-17.0	16.8- 19.0	91.917	52.236	36.424	27.934	22.639	19.024	16.399	14.407	12.845	11.586	10.552	9.685	8.950	8.318	7.769	7.287	6.862	6.483	15.6
17.1-19.0	19.1- 21.3	51.171	29.589	20.752	15.959	12.956	10.899	9.403	8.266	7.373	6.654	6.062	5.566	5.145	4.782	4.468	4.191	3.947	3.730	17.1
19.1-21.0	21.4- 23.6	35.648	20.771	14.613	11.258	9.150	7.703	6.650	5.849	5.219	4.711	4.293	3.943	3.645	3.389	3.166	2.971	2.798	2.645	18.4
21.1-23.0	23.7- 25.9	27.285	15.955	11.243	8.669	7.050	5.938	5.127	4.511	4.026	3.635	3.313	3.043	2.813	2.616	2.444	2.294	2.160	2.042	19.7
23.1-25.0	26.0- 28.2	21.987	12.877	9.079	7.003	5.697	4.799	4.144	3.646	3.255	2.939	2.678	2.460	2.275	2.115	1.976	1.855	1.747	1.651	20.8
25.1-27.0	28.3- 30.5	18.308	10.725	7.563	5.835	4.746	3.998	3.453	3.038	2.712	2.448	2.232	2.050	1.895	1.762	1.647	1.545	1.456	1.376	21.9
27.1-29.0	30.6- 32.7	15.597	9.134	6.440	4.967	4.040	3.403	2.939	2.586	2.308	2.084	1.899	1.744	1.613	1.500	1.401	1.315	1.239	1.171	22.8
29.1-31.0	32.8- 35.0	13.517	7.910	5.575	4.299	3.496	2.945	2.543	2.237	1.996	1.802	1.643	1.509	1.395	1.297	1.212	1.137	1.071	1.012	23.6
31.1-33.0	35.1- 37.3	11.871	6.940	4.889	3.769	3.064	2.580	2.228	1.960	1.749	1.579	1.439	1.322	1.222	1.136	1.061	0.996	0.938	0.886	24.4
33.1-35.0	37.4- 39.6	10.539	6.154	4.333	3.339	2.714	2.285	1.973	1.735	1.548	1.398	1.274	1.170	1.081	1.005	0.939	0.881	0.830	0.784	25.1
35.1-37.0	39.7- 41.8	9.441	5.506	3.874	2.984	2.425	2.042	1.762	1.550	1.383	1.248	1.137	1.044	0.965	0.898	0.839	0.787	0.741	0.700	25.7
37.1-39.0	42.0- 44.1	8.522	4.963	3.490	2.687	2.183	1.838	1.586	1.394	1.244	1.123	1.023	0.939	0.868	0.807	0.754	0.708	0.666	0.630	26.3
39.1-41.0	44.2- 46.4	7.742	4.503	3.165	2.436	1.978	1.665	1.436	1.263	1.127	1.017	0.926	0.851	0.786	0.731	0.683	0.640	0.603	0.570	26.8
41.1-43.0	46.5- 48.7	7.074	4.109	2.886	2.220	1.803	1.517	1.309	1.150	1.026	0.926	0.843	0.774	0.716	0.665	0.622	0.583	0.549	0.519	27.2
43.1-45.0	48.8- 50.9	6.495	3.768	2.645	2.034	1.651	1.389	1.198	1.053	0.939	0.847	0.772	0.709	0.655	0.609	0.569	0.533	0.502	0.475	27.6
45.1-47.0	51.0- 53.2	5.991	3.472	2.435	1.872	1.519	1.278	1.102	0.968	0.864	0.779	0.710	0.652	0.602	0.560	0.523	0.490	0.462	0.436	28.0
47.1-49.0	53.3- 55.4	5.547	3.211	2.251	1.730	1.404	1.180	1.018	0.894	0.797	0.719	0.655	0.601	0.556	0.516	0.482	0.452	0.426	0.403	28.3
49.1-51.0	55.6- 57.7	5.155	2.981	2.089	1.605	1.302	1.094	0.943	0.829	0.739	0.667	0.607	0.557	0.515	0.478	0.447	0.419	0.395	0.373	28.6
51.1-53.0	57.8- 60.0	4.806	2.776	1.944	1.493	1.211	1.018	0.877	0.771	0.687	0.620	0.564	0.518	0.479	0.445	0.415	0.390	0.367	0.346	28.9
53.1-55.0	60.1- 62.2	4.494	2.593	1.815	1.394	1.130	0.950	0.818	0.719	0.641	0.578	0.526	0.483	0.446	0.415	0.387	0.363	0.342	0.323	29.1
55.1-57.0	62.3- 64.5	4.213	2.429	1.700	1.305	1.057	0.888	0.766	0.672	0.599	0.540	0.492	0.452	0.417	0.388	0.362	0.340	0.320	0.302	29.3
57.1-59.0	64.6- 66.7	3.960	2.281	1.596	1.224	0.992	0.833	0.718	0.631	0.562	0.507	0.461	0.423	0.391	0.363	0.339	0.318	0.300	0.283	29.5
59.1-61.0	66.8- 69.0	3.730	2.147	1.501	1.152	0.933	0.784	0.675	0.593	0.528	0.476	0.434	0.398	0.368	0.342	0.319	0.299	0.282	0.266	29.7
61.1-63.0	69.1- 71.2	3.521	2.026	1.416	1.086	0.880	0.739	0.636	0.559	0.498	0.449	0.409	0.375	0.346	0.322	0.300	0.282	0.265	0.250	29.9
63.1-65.0	71.3- 73.5	3.330	1.915	1.338	1.026	0.831	0.698	0.601	0.528	0.470	0.424	0.386	0.354	0.327	0.304	0.283	0.266	0.250	0.236	30.0
65.1-67.0	73.6- 75.7	3.156	1.813	1.267	0.971	0.786	0.660	0.569	0.499	0.445	0.401	0.365	0.335	0.309	0.287	0.268	0.251	0.237	0.223	30.1
67.1-69.0	75.8- 77.9	2.995	1.720	1.202	0.921	0.746	0.626	0.539	0.473	0.421	0.380	0.346	0.317	0.293	0.272	0.254	0.238	0.224	0.212	30.2
69.1-71.0	78.1- 80.2	2.847	1.635	1.142	0.875	0.708	0.594	0.512	0.449	0.400	0.361	0.328	0.301	0.278	0.258	0.241	0.226	0.213	0.201	30.3
71.1-73.0	80.3- 82.4	2.711	1.556	1.086	0.832	0.674	0.565	0.487	0.427	0.380	0.343	0.312	0.286	0.264	0.245	0.229	0.215	0.202	0.191	30.4
73.1-75.0	82.5- 84.6	2.585	1.483	1.035	0.793	0.642	0.539	0.464	0.407	0.362	0.326	0.297	0.272	0.252	0.234	0.218	0.205	0.192	0.182	30.5
75.1-77.0	84.8- 86.9	2.467	1.415	0.988	0.757	0.612	0.514	0.442	0.388	0.346	0.311	0.283	0.260	0.240	0.223	0.208	0.195	0.184	0.173	30.6
77.1-79.0	87.0- 89.1	2.358	1.353	0.944	0.723	0.585	0.491	0.422	0.371	0.330	0.297	0.271	0.248	0.229	0.213	0.199	0.186	0.175	0.165	30.6
79.1-81.0	89.2- 91.3	2.256	1.294	0.903	0.692	0.560	0.469	0.404	0.354	0.316	0.284	0.259	0.237	0.219	0.203	0.190	0.178	0.167	0.158	30.7

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

Table 64. Trees/m^3 of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 1 TO 6, 12, 13, 15, 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	16.8- 19.0	433.399	203.582	134.042	99.945	79.610	66.090	56.453	49.238	43.636	39.164	35.512	32.474	29.909	27.714	25.816	24.157	22.697	21.401	15.6
17.1-19.0	19.1- 21.3	85.491	48.298	33.663	25.826	20.942	17.605	15.183	13.343	11.900	10.736	9.779	8.978	8.298	7.713	7.204	6.759	6.365	6.014	17.1
19.1-21.0	21.4- 23.6	46.721	26.804	18.740	14.387	11.666	9.806	8.455	7.429	6.625	5.976	5.443	4.997	4.618	4.292	4.009	3.760	3.541	3.346	18.4
21.1-23.0	23.7- 25.9	32.344	18.696	13.107	10.076	8.178	6.878	5.933	5.215	4.651	4.197	3.823	3.510	3.245	3.016	2.817	2.643	2.489	2.352	19.7
23.1-25.0	26.0- 28.2	24.737	14.358	10.082	7.758	6.300	5.301	4.574	4.022	3.588	3.238	2.950	2.709	2.504	2.328	2.175	2.040	1.922	1.816	20.8
25.1-27.0	28.3- 30.5	19.969	11.614	8.163	6.284	5.105	4.297	3.708	3.261	2.909	2.626	2.392	2.197	2.031	1.888	1.764	1.655	1.559	1.473	21.9
27.1-29.0	30.6- 32.7	16.675	9.707	6.825	5.255	4.270	3.594	3.102	2.728	2.434	2.197	2.002	1.838	1.699	1.580	1.476	1.385	1.304	1.233	22.8
29.1-31.0	32.8- 35.0	14.253	8.299	5.835	4.493	3.651	3.073	2.652	2.332	2.081	1.878	1.711	1.571	1.453	1.351	1.262	1.184	1.115	1.054	23.6
31.1-33.0	35.1- 37.3	12.395	7.215	5.072	3.905	3.173	2.670	2.304	2.026	1.808	1.632	1.487	1.365	1.262	1.173	1.096	1.028	0.969	0.915	24.4
33.1-35.0	37.4- 39.6	10.924	6.355	4.466	3.438	2.792	2.350	2.028	1.783	1.591	1.436	1.308	1.201	1.110	1.032	0.964	0.905	0.852	0.805	25.1
35.1-37.0	39.7- 41.8	9.731	5.656	3.973	3.058	2.483	2.090	1.803	1.585	1.414	1.276	1.163	1.068	0.987	0.917	0.857	0.804	0.757	0.716	25.7
37.1-39.0	42.0- 44.1	8.745	5.078	3.566	2.744	2.228	1.874	1.617	1.421	1.268	1.144	1.042	0.957	0.885	0.822	0.768	0.721	0.679	0.641	26.3
39.1-41.0	44.2- 46.4	7.917	4.593	3.224	2.479	2.013	1.693	1.460	1.284	1.145	1.033	0.941	0.864	0.799	0.742	0.693	0.651	0.613	0.579	26.8
41.1-43.0	46.5- 48.7	7.213	4.180	2.933	2.255	1.830	1.539	1.327	1.167	1.041	0.939	0.855	0.785	0.726	0.674	0.630	0.591	0.556	0.526	27.2
43.1-45.0	48.8- 50.9	6.608	3.826	2.682	2.062	1.673	1.407	1.213	1.066	0.951	0.858	0.781	0.717	0.663	0.616	0.575	0.540	0.508	0.480	27.6
45.1-47.0	51.0- 53.2	6.083	3.518	2.466	1.895	1.537	1.292	1.114	0.979	0.873	0.787	0.717	0.658	0.608	0.565	0.528	0.495	0.466	0.441	28.0
47.1-49.0	53.3- 55.4	5.623	3.249	2.276	1.748	1.418	1.192	1.028	0.903	0.805	0.726	0.661	0.607	0.561	0.521	0.487	0.457	0.430	0.406	28.3
49.1-51.0	55.6- 57.7	5.219	3.013	2.109	1.620	1.313	1.104	0.951	0.836	0.745	0.672	0.612	0.562	0.519	0.482	0.450	0.422	0.398	0.376	28.6
51.1-53.0	57.8- 60.0	4.860	2.803	1.962	1.506	1.221	1.026	0.884	0.777	0.692	0.624	0.568	0.522	0.482	0.448	0.418	0.392	0.369	0.349	28.9
53.1-55.0	60.1- 62.2	4.539	2.616	1.830	1.404	1.138	0.956	0.824	0.724	0.645	0.582	0.530	0.486	0.449	0.417	0.390	0.365	0.344	0.325	29.1
55.1-57.0	62.3- 64.5	4.252	2.449	1.712	1.314	1.064	0.894	0.770	0.677	0.603	0.544	0.495	0.454	0.420	0.390	0.364	0.341	0.321	0.304	29.3
57.1-59.0	64.6- 66.7	3.993	2.298	1.606	1.232	0.998	0.838	0.722	0.634	0.565	0.510	0.464	0.426	0.393	0.365	0.341	0.320	0.301	0.284	29.5
59.1-61.0	66.8- 69.0	3.759	2.162	1.511	1.158	0.938	0.788	0.679	0.596	0.531	0.479	0.436	0.400	0.369	0.343	0.320	0.300	0.283	0.267	29.7
61.1-63.0	69.1- 71.2	3.547	2.038	1.424	1.092	0.884	0.742	0.639	0.561	0.500	0.451	0.410	0.376	0.348	0.323	0.302	0.283	0.266	0.251	29.9
63.1-65.0	71.3- 73.5	3.353	1.926	1.345	1.031	0.835	0.701	0.604	0.530	0.472	0.425	0.387	0.355	0.328	0.305	0.285	0.267	0.251	0.237	30.0
65.1-67.0	73.6- 75.7	3.175	1.823	1.273	0.976	0.790	0.663	0.571	0.501	0.446	0.402	0.366	0.336	0.310	0.288	0.269	0.252	0.237	0.224	30.1
67.1-69.0	75.8- 77.9	3.013	1.729	1.207	0.925	0.749	0.628	0.541	0.475	0.423	0.381	0.347	0.318	0.294	0.273	0.255	0.239	0.225	0.212	30.2
69.1-71.0	78.1- 80.2	2.863	1.642	1.146	0.878	0.711	0.596	0.514	0.451	0.401	0.362	0.329	0.302	0.279	0.259	0.242	0.227	0.213	0.202	30.3
71.1-73.0	80.3- 82.4	2.725	1.563	1.090	0.835	0.676	0.567	0.488	0.428	0.382	0.344	0.313	0.287	0.265	0.246	0.230	0.215	0.203	0.191	30.4
73.1-75.0	82.5- 84.6	2.597	1.489	1.039	0.796	0.644	0.540	0.465	0.408	0.363	0.327	0.298	0.273	0.252	0.234	0.219	0.205	0.193	0.182	30.5
75.1-77.0	84.8- 86.9	2.478	1.421	0.991	0.759	0.614	0.515	0.443	0.389	0.346	0.312	0.284	0.261	0.241	0.223	0.209	0.195	0.184	0.174	30.6
77.1-79.0	87.0- 89.1	2.368	1.357	0.947	0.725	0.587	0.492	0.424	0.372	0.331	0.298	0.271	0.249	0.230	0.213	0.199	0.187	0.176	0.166	30.6
79.1-81.0	89.2- 91.3	2.265	1.298	0.906	0.694	0.561	0.471	0.405	0.355	0.316	0.285	0.259	0.238	0.220	0.204	0.190	0.178	0.168	0.158	30.7

14.0 NUMBER OF TREES PER CUBIC METRE OF MERCHANTABLE VOLUME TABLES FOR NATURAL REGIONS 9, 11, 14

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

Table 65. Trees/m^3 of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	5.7- 7.8	656.392	374.136	261.175	200.355	162.375	136.423	117.577	103.276	92.058	83.024	75.595	69.380	64.104	59.569	55.630	52.178	49.126	46.411	6.3
7.1- 9.0	7.9- 10.0	190.165	109.262	76.235	58.413	47.294	39.707	34.205	30.034	26.765	24.134	21.972	20.164	18.629	17.311	16.166	15.163	14.276	13.487	8.3
9.1-11.0	10.1- 12.2	111.367	64.150	44.807	34.350	27.820	23.361	20.126	17.673	15.750	14.202	12.930	11.866	10.963	10.187	9.513	8.922	8.401	7.936	10.2
11.1-13.0	12.3- 14.4	76.418	43.909	30.623	23.450	18.975	15.923	13.710	12.033	10.720	9.663	8.795	8.069	7.453	6.924	6.465	6.063	5.707	5.391	12.1
13.1-15.0	14.5- 16.6	56.647	32.440	22.579	17.265	13.955	11.700	10.067	8.830	7.863	7.084	6.446	5.912	5.459	5.070	4.733	4.438	4.177	3.945	13.9
15.1-17.0	16.8- 18.9	44.045	25.147	17.471	13.341	10.771	9.023	7.757	6.800	6.052	5.451	4.957	4.545	4.196	3.896	3.636	3.408	3.207	3.028	15.6
17.1-19.0	19.0- 21.2	35.397	20.163	13.988	10.668	8.605	7.202	6.188	5.421	4.822	4.341	3.946	3.617	3.338	3.099	2.891	2.710	2.549	2.407	17.1
19.1-21.0	21.3- 23.5	29.149	16.580	11.490	8.755	7.055	5.901	5.066	4.436	3.944	3.549	3.226	2.955	2.727	2.531	2.361	2.212	2.081	1.964	18.6
21.1-23.0	23.6- 25.8	24.458	13.903	9.629	7.332	5.905	4.935	4.235	3.707	3.294	2.963	2.692	2.466	2.274	2.110	1.968	1.843	1.734	1.636	19.9
23.1-25.0	25.9- 28.1	20.830	11.843	8.201	6.242	5.024	4.197	3.600	3.149	2.798	2.516	2.285	2.092	1.929	1.790	1.669	1.563	1.470	1.387	21.1
25.1-27.0	28.2- 30.4	17.956	10.219	7.078	5.386	4.334	3.619	3.103	2.714	2.410	2.166	1.967	1.800	1.660	1.539	1.435	1.344	1.263	1.192	22.3
27.1-29.0	30.5- 32.7	15.634	8.912	6.178	4.701	3.782	3.157	2.706	2.366	2.100	1.887	1.713	1.568	1.445	1.340	1.249	1.169	1.099	1.037	23.3
29.1-31.0	32.9- 35.1	13.726	7.843	5.442	4.143	3.333	2.782	2.384	2.083	1.849	1.661	1.507	1.379	1.271	1.178	1.098	1.028	0.966	0.911	24.3
31.1-33.0	35.2- 37.5	12.137	6.955	4.834	3.682	2.962	2.472	2.118	1.851	1.642	1.475	1.338	1.224	1.128	1.045	0.974	0.912	0.857	0.808	25.1
33.1-35.0	37.6- 39.9	10.798	6.210	4.323	3.295	2.652	2.213	1.896	1.656	1.469	1.320	1.197	1.095	1.009	0.935	0.871	0.815	0.766	0.722	25.9
35.1-37.0	40.0- 42.3	9.658	5.576	3.890	2.968	2.390	1.995	1.709	1.493	1.324	1.189	1.078	0.986	0.908	0.841	0.784	0.733	0.689	0.650	26.6
37.1-39.0	42.4- 44.7	8.678	5.033	3.520	2.689	2.166	1.808	1.549	1.353	1.200	1.077	0.977	0.893	0.823	0.762	0.710	0.664	0.624	0.588	27.3
39.1-41.0	44.8- 47.1	7.829	4.562	3.199	2.447	1.973	1.647	1.411	1.233	1.093	0.981	0.890	0.814	0.749	0.694	0.646	0.604	0.568	0.535	27.9
41.1-43.0	47.2- 49.6	7.089	4.153	2.921	2.238	1.805	1.508	1.292	1.129	1.001	0.898	0.815	0.745	0.686	0.635	0.591	0.553	0.519	0.490	28.4
43.1-45.0	49.7- 52.0	6.439	3.793	2.677	2.054	1.658	1.386	1.188	1.038	0.920	0.826	0.749	0.685	0.630	0.584	0.543	0.508	0.477	0.450	28.9
45.1-47.0	52.1- 54.5	5.866	3.476	2.461	1.892	1.529	1.279	1.096	0.958	0.850	0.763	0.691	0.632	0.582	0.539	0.501	0.469	0.440	0.415	29.4
47.1-49.0	54.6- 57.0	5.358	3.195	2.270	1.749	1.415	1.184	1.016	0.887	0.787	0.706	0.640	0.585	0.539	0.499	0.464	0.434	0.408	0.384	29.8
49.1-51.0	57.1- 59.5	4.905	2.944	2.100	1.621	1.313	1.100	0.944	0.825	0.732	0.657	0.595	0.544	0.501	0.464	0.432	0.404	0.379	0.357	30.2
51.1-53.0	59.6- 62.0	4.500	2.719	1.947	1.507	1.222	1.024	0.879	0.769	0.682	0.612	0.555	0.507	0.467	0.432	0.402	0.376	0.353	0.333	30.5
53.1-55.0	62.1- 64.5	4.136	2.517	1.810	1.404	1.141	0.957	0.822	0.719	0.638	0.572	0.519	0.474	0.436	0.404	0.376	0.352	0.330	0.311	30.8
55.1-57.0	64.7- 67.1	3.809	2.334	1.686	1.311	1.067	0.896	0.770	0.673	0.598	0.536	0.486	0.445	0.409	0.379	0.353	0.330	0.309	0.291	31.1
57.1-59.0	67.2- 69.6	3.513	2.169	1.574	1.227	1.000	0.840	0.722	0.632	0.561	0.504	0.457	0.418	0.384	0.356	0.331	0.310	0.291	0.274	31.3
59.1-61.0	69.8- 72.2	3.245	2.018	1.472	1.151	0.939	0.790	0.680	0.595	0.528	0.475	0.430	0.393	0.362	0.335	0.312	0.292	0.274	0.258	31.6
61.1-63.0	72.3- 74.8	3.002	1.881	1.378	1.081	0.884	0.744	0.641	0.561	0.499	0.448	0.406	0.371	0.342	0.316	0.294	0.275	0.258	0.243	31.8
63.1-65.0	74.9- 77.4	2.780	1.756	1.293	1.017	0.833	0.702	0.605	0.530	0.471	0.423	0.384	0.351	0.323	0.299	0.278	0.260	0.244	0.230	32.0
65.1-67.0	77.5- 80.0	2.578	1.642	1.215	0.958	0.786	0.664	0.572	0.502	0.446	0.401	0.364	0.333	0.306	0.283	0.264	0.247	0.231	0.218	32.1
67.1-69.0	80.2- 82.7	2.393	1.536	1.143	0.904	0.744	0.628	0.542	0.476	0.423	0.380	0.345	0.316	0.290	0.269	0.250	0.234	0.220	0.207	32.3
69.1-71.0	82.8- 85.3	2.224	1.439	1.076	0.854	0.704	0.596	0.515	0.452	0.402	0.361	0.328	0.300	0.276	0.256	0.238	0.222	0.209	0.197	32.4
71.1-73.0	85.4- 88.0	2.068	1.350	1.015	0.808	0.668	0.566	0.489	0.430	0.382	0.344	0.312	0.285	0.263	0.243	0.227	0.212	0.199	0.187	32.5
73.1-75.0	88.1- 90.7	1.926	1.267	0.958	0.766	0.634	0.538	0.465	0.409	0.364	0.328	0.297	0.272	0.251	0.232	0.216	0.202	0.190	0.179	32.7
75.1-77.0	90.8- 93.3	1.794	1.191	0.905	0.726	0.602	0.512	0.443	0.390	0.347	0.313	0.284	0.260	0.239	0.222	0.206	0.193	0.181	0.170	32.8
77.1-79.0	93.5- 96.1	1.673	1.120	0.856	0.689	0.573	0.488	0.423	0.372	0.332	0.299	0.271	0.248	0.229	0.212	0.197	0.184	0.173	0.163	32.9
79.1-81.0	96.2- 98.8	1.562	1.055	0.811	0.655	0.546	0.465	0.404	0.356	0.317	0.286	0.260	0.238	0.219	0.203	0.189	0.176	0.166	0.156	32.9

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

Table 66. Trees/m^3 of merchantable volume at 0.30 m stump height and 7.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	7.9- 10.0	531.424	316.300	230.293	182.960	152.602	131.295	115.427	103.105	93.233	85.132	78.355	72.596	67.638	63.322	59.530	56.170	53.172	50.480	8.3
9.1-11.0	10.1- 12.2	148.377	83.664	57.749	43.924	35.372	29.575	25.394	22.239	19.776	17.800	16.180	14.829	13.685	12.704	11.853	11.108	10.451	9.867	10.2
11.1-13.0	12.3- 14.4	87.916	49.783	34.442	26.238	21.154	17.703	15.211	13.329	11.858	10.678	9.709	8.901	8.216	7.629	7.119	6.673	6.279	5.929	12.1
13.1-15.0	14.5- 16.6	61.600	34.922	24.172	18.417	14.848	12.426	10.676	9.354	8.321	7.492	6.812	6.245	5.764	5.351	4.994	4.681	4.404	4.158	13.9
15.1-17.0	16.8- 18.9	46.576	26.398	18.265	13.910	11.210	9.377	8.053	7.054	6.273	5.647	5.133	4.705	4.342	4.030	3.760	3.524	3.315	3.130	15.6
17.1-19.0	19.0- 21.2	36.838	20.868	14.431	10.984	8.847	7.396	6.349	5.559	4.942	4.447	4.041	3.703	3.417	3.171	2.958	2.772	2.607	2.461	17.1
19.1-21.0	21.3- 23.5	30.033	17.010	11.758	8.945	7.200	6.016	5.162	4.518	4.015	3.612	3.281	3.006	2.772	2.573	2.399	2.248	2.114	1.995	18.6
21.1-23.0	23.6- 25.8	25.032	14.181	9.802	7.453	5.997	5.009	4.296	3.758	3.338	3.002	2.727	2.497	2.303	2.136	1.992	1.866	1.755	1.656	19.9
23.1-25.0	25.9- 28.1	21.219	12.031	8.318	6.324	5.086	4.246	3.640	3.183	2.827	2.541	2.308	2.113	1.948	1.807	1.684	1.577	1.483	1.399	21.1
25.1-27.0	28.2- 30.4	18.228	10.351	7.160	5.444	4.377	3.653	3.131	2.737	2.430	2.184	1.982	1.814	1.672	1.551	1.446	1.354	1.272	1.200	22.3
27.1-29.0	30.5- 32.7	15.829	9.008	6.237	4.743	3.813	3.182	2.726	2.382	2.114	1.900	1.724	1.578	1.454	1.348	1.256	1.176	1.105	1.043	23.3
29.1-31.0	32.9- 35.1	13.870	7.914	5.486	4.174	3.356	2.800	2.398	2.096	1.859	1.670	1.515	1.386	1.277	1.184	1.103	1.033	0.971	0.915	24.3
31.1-33.0	35.2- 37.5	12.246	7.009	4.867	3.705	2.979	2.486	2.129	1.860	1.650	1.482	1.344	1.230	1.133	1.050	0.978	0.915	0.860	0.811	25.1
33.1-35.0	37.6- 39.9	10.881	6.251	4.349	3.313	2.665	2.224	1.904	1.663	1.475	1.325	1.202	1.099	1.012	0.938	0.874	0.818	0.768	0.724	25.9
35.1-37.0	40.0- 42.3	9.722	5.608	3.911	2.982	2.400	2.003	1.715	1.498	1.329	1.193	1.082	0.989	0.911	0.844	0.786	0.735	0.691	0.651	26.6
37.1-39.0	42.4- 44.7	8.728	5.058	3.536	2.700	2.174	1.815	1.554	1.357	1.204	1.080	0.980	0.896	0.825	0.764	0.712	0.666	0.625	0.589	27.3
39.1-41.0	44.8- 47.1	7.869	4.583	3.213	2.457	1.980	1.653	1.416	1.236	1.096	0.984	0.892	0.816	0.751	0.696	0.648	0.606	0.569	0.536	27.9
41.1-43.0	47.2- 49.6	7.120	4.169	2.932	2.245	1.811	1.512	1.296	1.132	1.003	0.901	0.816	0.746	0.687	0.636	0.593	0.554	0.520	0.491	28.4
43.1-45.0	49.7- 52.0	6.465	3.807	2.685	2.060	1.663	1.390	1.191	1.040	0.922	0.828	0.750	0.686	0.631	0.585	0.544	0.509	0.478	0.451	28.9
45.1-47.0	52.1- 54.5	5.887	3.487	2.469	1.898	1.533	1.282	1.099	0.960	0.851	0.764	0.693	0.633	0.583	0.540	0.502	0.470	0.441	0.416	29.4
47.1-49.0	54.6- 57.0	5.374	3.204	2.276	1.753	1.418	1.187	1.018	0.889	0.789	0.708	0.642	0.586	0.540	0.500	0.465	0.435	0.408	0.385	29.8
49.1-51.0	57.1- 59.5	4.919	2.952	2.105	1.625	1.316	1.102	0.945	0.826	0.733	0.658	0.596	0.545	0.502	0.464	0.432	0.404	0.379	0.357	30.2
51.1-53.0	59.6- 62.0	4.511	2.725	1.952	1.510	1.225	1.026	0.881	0.770	0.683	0.613	0.556	0.508	0.467	0.433	0.403	0.377	0.354	0.333	30.5
53.1-55.0	62.1- 64.5	4.146	2.522	1.814	1.407	1.143	0.958	0.823	0.720	0.638	0.573	0.520	0.475	0.437	0.405	0.377	0.352	0.330	0.311	30.8
55.1-57.0	64.7- 67.1	3.817	2.339	1.690	1.314	1.069	0.897	0.771	0.674	0.598	0.537	0.487	0.445	0.410	0.379	0.353	0.330	0.310	0.292	31.1
57.1-59.0	67.2- 69.6	3.520	2.173	1.577	1.229	1.002	0.842	0.724	0.633	0.562	0.505	0.458	0.418	0.385	0.356	0.332	0.310	0.291	0.274	31.3
59.1-61.0	69.8- 72.2	3.251	2.022	1.474	1.152	0.941	0.791	0.681	0.596	0.529	0.475	0.431	0.394	0.362	0.336	0.312	0.292	0.274	0.258	31.6
61.1-63.0	72.3- 74.8	3.006	1.884	1.381	1.082	0.885	0.745	0.642	0.562	0.499	0.448	0.407	0.372	0.342	0.317	0.295	0.275	0.259	0.244	31.8
63.1-65.0	74.9- 77.4	2.784	1.759	1.295	1.018	0.834	0.703	0.606	0.531	0.472	0.424	0.384	0.351	0.323	0.299	0.279	0.261	0.244	0.230	32.0
65.1-67.0	77.5- 80.0	2.581	1.644	1.216	0.960	0.787	0.665	0.573	0.502	0.447	0.401	0.364	0.333	0.306	0.284	0.264	0.247	0.232	0.218	32.1
67.1-69.0	80.2- 82.7	2.396	1.538	1.144	0.905	0.745	0.629	0.543	0.476	0.424	0.381	0.345	0.316	0.291	0.269	0.251	0.234	0.220	0.207	32.3
69.1-71.0	82.8- 85.3	2.226	1.441	1.078	0.856	0.705	0.597	0.515	0.452	0.402	0.362	0.328	0.300	0.276	0.256	0.238	0.223	0.209	0.197	32.4
71.1-73.0	85.4- 88.0	2.071	1.351	1.016	0.809	0.668	0.566	0.490	0.430	0.383	0.344	0.312	0.286	0.263	0.244	0.227	0.212	0.199	0.187	32.5
73.1-75.0	88.1- 90.7	1.927	1.269	0.959	0.767	0.634	0.538	0.466	0.409	0.364	0.328	0.298	0.272	0.251	0.232	0.216	0.202	0.190	0.179	32.7
75.1-77.0	90.8- 93.3	1.796	1.192	0.906	0.727	0.603	0.512	0.444	0.390	0.348	0.313	0.284	0.260	0.239	0.222	0.206	0.193	0.181	0.171	32.8
77.1-79.0	93.5- 96.1	1.675	1.121	0.857	0.690	0.574	0.488	0.423	0.373	0.332	0.299	0.271	0.248	0.229	0.212	0.197	0.184	0.173	0.163	32.9
79.1-81.0	96.2- 98.8	1.563	1.056	0.812	0.656	0.546	0.466	0.404	0.356	0.317	0.286	0.260	0.238	0.219	0.203	0.189	0.177	0.166	0.156	32.9

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

Table 67. Trees/m^3 of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	170.771	99.205	70.286	54.496	44.514	37.624	32.578	28.723	25.682	23.221	21.189	19.483	18.030	16.777	15.687	14.730	13.882	13.126	12.1
13.1-15.0	14.5- 16.6	84.232	47.294	32.520	24.639	19.772	16.480	14.112	12.330	10.942	9.832	8.923	8.167	7.528	6.981	6.507	6.093	5.728	5.404	13.9
15.1-17.0	16.8- 18.9	56.072	31.432	21.588	16.349	13.118	10.936	9.366	8.185	7.265	6.529	5.927	5.426	5.002	4.639	4.325	4.050	3.808	3.593	15.6
17.1-19.0	19.0- 21.2	41.679	23.395	16.080	12.184	9.779	8.154	6.985	6.105	5.419	4.871	4.422	4.048	3.732	3.461	3.227	3.022	2.841	2.681	17.1
19.1-21.0	21.3- 23.5	32.801	18.442	12.687	9.616	7.719	6.436	5.513	4.819	4.277	3.844	3.489	3.194	2.944	2.731	2.546	2.384	2.241	2.115	18.6
21.1-23.0	23.6- 25.8	26.741	15.062	10.370	7.862	6.312	5.262	4.507	3.938	3.495	3.141	2.851	2.609	2.405	2.230	2.079	1.946	1.830	1.726	19.9
23.1-25.0	25.9- 28.1	22.333	12.606	8.687	6.588	5.289	4.409	3.776	3.299	2.927	2.630	2.386	2.184	2.013	1.866	1.739	1.628	1.530	1.444	21.1
25.1-27.0	28.2- 30.4	18.986	10.742	7.412	5.623	4.515	3.763	3.222	2.815	2.497	2.243	2.035	1.862	1.716	1.590	1.482	1.387	1.304	1.230	22.3
27.1-29.0	30.5- 32.7	16.362	9.284	6.414	4.869	3.910	3.259	2.790	2.437	2.161	1.941	1.761	1.611	1.484	1.375	1.281	1.199	1.127	1.063	23.3
29.1-31.0	32.9- 35.1	14.255	8.115	5.616	4.266	3.426	2.856	2.444	2.135	1.893	1.700	1.542	1.410	1.299	1.204	1.121	1.049	0.986	0.930	24.3
31.1-33.0	35.2- 37.5	12.529	7.158	4.963	3.774	3.032	2.527	2.163	1.889	1.675	1.503	1.363	1.247	1.148	1.064	0.991	0.927	0.871	0.822	25.1
33.1-35.0	37.6- 39.9	11.094	6.364	4.422	3.366	2.705	2.255	1.931	1.685	1.494	1.341	1.216	1.112	1.024	0.949	0.884	0.827	0.777	0.732	25.9
35.1-37.0	40.0- 42.3	9.884	5.696	3.968	3.023	2.431	2.027	1.735	1.515	1.343	1.205	1.093	0.999	0.920	0.852	0.794	0.742	0.697	0.657	26.6
37.1-39.0	42.4- 44.7	8.854	5.127	3.581	2.732	2.199	1.834	1.570	1.371	1.215	1.090	0.988	0.904	0.832	0.771	0.717	0.671	0.630	0.594	27.3
39.1-41.0	44.8- 47.1	7.967	4.637	3.248	2.482	1.999	1.668	1.428	1.247	1.105	0.992	0.899	0.822	0.757	0.701	0.652	0.610	0.573	0.540	27.9
41.1-43.0	47.2- 49.6	7.198	4.213	2.960	2.266	1.827	1.525	1.306	1.140	1.011	0.907	0.822	0.751	0.692	0.641	0.596	0.558	0.524	0.494	28.4
43.1-45.0	49.7- 52.0	6.527	3.842	2.709	2.077	1.676	1.400	1.199	1.047	0.929	0.833	0.755	0.690	0.635	0.588	0.548	0.512	0.481	0.453	28.9
45.1-47.0	52.1- 54.5	5.936	3.516	2.488	1.912	1.544	1.291	1.106	0.966	0.856	0.768	0.696	0.636	0.586	0.542	0.505	0.472	0.443	0.418	29.4
47.1-49.0	54.6- 57.0	5.415	3.228	2.293	1.765	1.428	1.194	1.024	0.894	0.793	0.711	0.645	0.589	0.542	0.502	0.467	0.437	0.410	0.386	29.8
49.1-51.0	57.1- 59.5	4.951	2.971	2.119	1.635	1.324	1.108	0.950	0.830	0.736	0.661	0.599	0.547	0.504	0.466	0.434	0.406	0.381	0.359	30.2
51.1-53.0	59.6- 62.0	4.538	2.742	1.963	1.519	1.231	1.032	0.885	0.774	0.686	0.616	0.558	0.510	0.469	0.435	0.404	0.378	0.355	0.334	30.5
53.1-55.0	62.1- 64.5	4.168	2.536	1.824	1.414	1.148	0.963	0.827	0.723	0.641	0.575	0.522	0.477	0.439	0.406	0.378	0.353	0.332	0.312	30.8
55.1-57.0	64.7- 67.1	3.835	2.350	1.698	1.320	1.074	0.901	0.774	0.677	0.601	0.539	0.489	0.447	0.411	0.380	0.354	0.331	0.311	0.293	31.1
57.1-59.0	67.2- 69.6	3.535	2.183	1.584	1.235	1.006	0.845	0.726	0.635	0.564	0.506	0.459	0.420	0.386	0.357	0.333	0.311	0.292	0.275	31.3
59.1-61.0	69.8- 72.2	3.263	2.030	1.480	1.157	0.944	0.794	0.683	0.598	0.531	0.477	0.432	0.395	0.363	0.337	0.313	0.293	0.275	0.259	31.6
61.1-63.0	72.3- 74.8	3.017	1.892	1.386	1.087	0.888	0.748	0.644	0.564	0.501	0.450	0.408	0.373	0.343	0.318	0.295	0.276	0.259	0.244	31.8
63.1-65.0	74.9- 77.4	2.793	1.765	1.300	1.022	0.837	0.705	0.608	0.533	0.473	0.425	0.385	0.352	0.324	0.300	0.279	0.261	0.245	0.231	32.0
65.1-67.0	77.5- 80.0	2.589	1.649	1.220	0.963	0.790	0.667	0.575	0.504	0.448	0.402	0.365	0.334	0.307	0.284	0.265	0.247	0.232	0.219	32.1
67.1-69.0	80.2- 82.7	2.402	1.543	1.148	0.908	0.747	0.631	0.544	0.478	0.425	0.382	0.346	0.317	0.291	0.270	0.251	0.235	0.220	0.207	32.3
69.1-71.0	82.8- 85.3	2.232	1.445	1.081	0.858	0.707	0.598	0.517	0.453	0.403	0.363	0.329	0.301	0.277	0.256	0.239	0.223	0.209	0.197	32.4
71.1-73.0	85.4- 88.0	2.075	1.355	1.019	0.812	0.670	0.568	0.491	0.431	0.384	0.345	0.313	0.286	0.264	0.244	0.227	0.212	0.199	0.188	32.5
73.1-75.0	88.1- 90.7	1.931	1.272	0.962	0.769	0.636	0.540	0.467	0.410	0.365	0.329	0.298	0.273	0.251	0.233	0.217	0.202	0.190	0.179	32.7
75.1-77.0	90.8- 93.3	1.799	1.195	0.909	0.729	0.604	0.514	0.445	0.391	0.348	0.314	0.285	0.260	0.240	0.222	0.207	0.193	0.181	0.171	32.8
77.1-79.0	93.5- 96.1	1.677	1.124	0.859	0.692	0.575	0.489	0.424	0.373	0.333	0.299	0.272	0.249	0.229	0.212	0.198	0.185	0.173	0.163	32.9
79.1-81.0	96.2- 98.8	1.565	1.058	0.813	0.657	0.547	0.467	0.405	0.357	0.318	0.286	0.260	0.238	0.219	0.203	0.189	0.177	0.166	0.156	32.9

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

Table 68. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	310.409	203.681	162.962	140.196	124.675	112.837	103.223	95.135	88.188	82.139	76.820	72.109	67.910	64.145	60.755	57.687	54.899	52.357	12.1
13.1-15.0	14.5- 16.6	103.427	58.933	40.983	31.286	25.231	21.102	18.113	15.852	14.084	12.666	11.503	10.534	9.713	9.009	8.399	7.866	7.396	6.978	13.9
15.1-17.0	16.8- 18.9	62.419	35.027	24.062	18.212	14.601	12.160	10.406	9.087	8.060	7.239	6.567	6.009	5.537	5.133	4.783	4.478	4.209	3.970	15.6
17.1-19.0	19.0- 21.2	44.550	24.974	17.144	12.972	10.400	8.662	7.414	6.475	5.744	5.159	4.682	4.284	3.948	3.660	3.411	3.194	3.002	2.832	17.1
19.1-21.0	21.3- 23.5	34.329	19.271	13.238	10.021	8.036	6.695	5.730	5.005	4.440	3.989	3.619	3.312	3.052	2.830	2.638	2.469	2.321	2.190	18.6
21.1-23.0	23.6- 25.8	27.640	15.546	10.690	8.096	6.494	5.410	4.631	4.045	3.588	3.223	2.924	2.676	2.466	2.286	2.130	1.995	1.875	1.768	19.9
23.1-25.0	25.9- 28.1	22.901	12.910	8.888	6.735	5.403	4.501	3.853	3.364	2.984	2.680	2.432	2.225	2.050	1.900	1.771	1.658	1.558	1.469	21.1
25.1-27.0	28.2- 30.4	19.363	10.945	7.545	5.720	4.589	3.824	3.272	2.857	2.534	2.276	2.064	1.888	1.740	1.613	1.502	1.406	1.322	1.246	22.3
27.1-29.0	30.5- 32.7	16.622	9.424	6.506	4.936	3.961	3.300	2.824	2.466	2.187	1.963	1.781	1.629	1.500	1.390	1.295	1.212	1.139	1.074	23.3
29.1-31.0	32.9- 35.1	14.439	8.215	5.682	4.314	3.463	2.885	2.469	2.155	1.911	1.716	1.556	1.423	1.310	1.214	1.131	1.058	0.994	0.938	24.3
31.1-33.0	35.2- 37.5	12.664	7.232	5.012	3.809	3.059	2.549	2.181	1.904	1.688	1.515	1.374	1.256	1.157	1.072	0.998	0.934	0.877	0.827	25.1
33.1-35.0	37.6- 39.9	11.194	6.419	4.459	3.392	2.726	2.272	1.944	1.697	1.504	1.350	1.224	1.119	1.030	0.954	0.889	0.832	0.781	0.736	25.9
35.1-37.0	40.0- 42.3	9.960	5.738	3.996	3.044	2.447	2.040	1.746	1.524	1.351	1.212	1.099	1.004	0.925	0.857	0.798	0.746	0.701	0.661	26.6
37.1-39.0	42.4- 44.7	8.911	5.159	3.603	2.748	2.211	1.844	1.578	1.378	1.221	1.096	0.993	0.908	0.836	0.774	0.721	0.674	0.633	0.597	27.3
39.1-41.0	44.8- 47.1	8.012	4.663	3.266	2.495	2.009	1.676	1.435	1.253	1.110	0.996	0.903	0.825	0.760	0.703	0.655	0.612	0.575	0.542	27.9
41.1-43.0	47.2- 49.6	7.233	4.233	2.974	2.276	1.834	1.531	1.311	1.145	1.015	0.910	0.825	0.754	0.694	0.643	0.598	0.559	0.525	0.495	28.4
43.1-45.0	49.7- 52.0	6.555	3.859	2.720	2.086	1.683	1.405	1.204	1.051	0.932	0.836	0.758	0.692	0.637	0.590	0.549	0.513	0.482	0.454	28.9
45.1-47.0	52.1- 54.5	5.959	3.530	2.497	1.919	1.549	1.295	1.110	0.969	0.859	0.771	0.698	0.638	0.587	0.544	0.506	0.473	0.444	0.419	29.4
47.1-49.0	54.6- 57.0	5.433	3.239	2.300	1.771	1.432	1.198	1.026	0.897	0.795	0.713	0.646	0.591	0.544	0.503	0.468	0.438	0.411	0.387	29.8
49.1-51.0	57.1- 59.5	4.966	2.980	2.125	1.640	1.328	1.111	0.953	0.833	0.738	0.662	0.600	0.549	0.505	0.467	0.435	0.407	0.382	0.360	30.2
51.1-53.0	59.6- 62.0	4.550	2.749	1.969	1.523	1.235	1.034	0.887	0.775	0.688	0.617	0.559	0.511	0.470	0.435	0.405	0.379	0.356	0.335	30.5
53.1-55.0	62.1- 64.5	4.178	2.542	1.828	1.418	1.151	0.965	0.828	0.724	0.642	0.577	0.523	0.478	0.439	0.407	0.379	0.354	0.332	0.313	30.8
55.1-57.0	64.7- 67.1	3.843	2.356	1.702	1.323	1.076	0.903	0.775	0.678	0.602	0.540	0.490	0.447	0.412	0.381	0.355	0.332	0.311	0.293	31.1
57.1-59.0	67.2- 69.6	3.541	2.187	1.587	1.237	1.008	0.847	0.728	0.637	0.565	0.507	0.460	0.420	0.387	0.358	0.333	0.311	0.292	0.275	31.3
59.1-61.0	69.8- 72.2	3.269	2.034	1.483	1.159	0.946	0.795	0.684	0.599	0.532	0.477	0.433	0.396	0.364	0.337	0.314	0.293	0.275	0.259	31.6
61.1-63.0	72.3- 74.8	3.022	1.895	1.388	1.088	0.890	0.749	0.645	0.565	0.501	0.450	0.408	0.373	0.343	0.318	0.296	0.277	0.260	0.244	31.8
63.1-65.0	74.9- 77.4	2.797	1.768	1.302	1.024	0.838	0.707	0.609	0.533	0.474	0.426	0.386	0.353	0.325	0.301	0.280	0.261	0.245	0.231	32.0
65.1-67.0	77.5- 80.0	2.592	1.651	1.222	0.964	0.791	0.668	0.576	0.505	0.448	0.403	0.365	0.334	0.307	0.285	0.265	0.248	0.232	0.219	32.1
67.1-69.0	80.2- 82.7	2.405	1.545	1.149	0.909	0.748	0.632	0.545	0.478	0.425	0.382	0.347	0.317	0.292	0.270	0.251	0.235	0.220	0.208	32.3
69.1-71.0	82.8- 85.3	2.234	1.447	1.082	0.859	0.708	0.599	0.517	0.454	0.404	0.363	0.329	0.301	0.277	0.257	0.239	0.223	0.210	0.197	32.4
71.1-73.0	85.4- 88.0	2.077	1.356	1.020	0.813	0.671	0.568	0.491	0.432	0.384	0.345	0.313	0.287	0.264	0.244	0.227	0.213	0.199	0.188	32.5
73.1-75.0	88.1- 90.7	1.933	1.273	0.963	0.769	0.637	0.540	0.467	0.411	0.366	0.329	0.299	0.273	0.251	0.233	0.217	0.203	0.190	0.179	32.7
75.1-77.0	90.8- 93.3	1.801	1.196	0.909	0.729	0.605	0.514	0.445	0.392	0.349	0.314	0.285	0.261	0.240	0.222	0.207	0.193	0.182	0.171	32.8
77.1-79.0	93.5- 96.1	1.679	1.125	0.860	0.692	0.575	0.490	0.425	0.374	0.333	0.300	0.272	0.249	0.229	0.212	0.198	0.185	0.174	0.163	32.9
79.1-81.0	96.2- 98.8	1.566	1.058	0.814	0.658	0.548	0.467	0.405	0.357	0.318	0.287	0.260	0.238	0.220	0.203	0.189	0.177	0.166	0.156	32.9

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

Table 69. Trees/m³ of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	231.118	156.515	129.334	114.518	104.284	96.157	89.232	83.142	77.715	72.849	68.471	64.520	60.948	57.708	54.763	52.078	49.623	47.372	13.9
15.1-17.0	16.8- 18.9	87.657	50.951	36.022	27.844	22.670	19.100	16.490	14.500	12.933	11.668	10.626	9.752	9.010	8.371	7.816	7.330	6.900	6.517	15.6
17.1-19.0	19.0- 21.2	54.028	30.554	21.083	15.989	12.826	10.682	9.137	7.974	7.069	6.345	5.753	5.260	4.844	4.489	4.181	3.912	3.676	3.466	17.1
19.1-21.0	21.3- 23.5	38.919	21.889	15.040	11.375	9.109	7.578	6.478	5.651	5.008	4.494	4.074	3.725	3.431	3.179	2.961	2.771	2.603	2.455	18.6
21.1-23.0	23.6- 25.8	30.193	16.981	11.665	8.821	7.064	5.877	5.024	4.383	3.884	3.486	3.161	2.890	2.662	2.466	2.297	2.150	2.020	1.905	19.9
23.1-25.0	25.9- 28.1	24.452	13.775	9.472	7.166	5.741	4.777	4.084	3.563	3.158	2.834	2.569	2.349	2.164	2.005	1.868	1.748	1.642	1.548	21.1
25.1-27.0	28.2- 30.4	20.365	11.502	7.920	5.996	4.805	3.999	3.419	2.983	2.644	2.373	2.151	1.967	1.811	1.678	1.563	1.463	1.374	1.296	22.3
27.1-29.0	30.5- 32.7	17.299	9.801	6.760	5.122	4.106	3.418	2.923	2.550	2.260	2.028	1.838	1.681	1.548	1.434	1.335	1.250	1.174	1.107	23.3
29.1-31.0	32.9- 35.1	14.913	8.480	5.860	4.445	3.565	2.968	2.538	2.214	1.962	1.760	1.596	1.459	1.343	1.244	1.159	1.084	1.019	0.960	24.3
31.1-33.0	35.2- 37.5	13.005	7.424	5.141	3.904	3.133	2.609	2.231	1.946	1.725	1.547	1.403	1.282	1.180	1.093	1.018	0.952	0.895	0.843	25.1
33.1-35.0	37.6- 39.9	11.445	6.562	4.555	3.463	2.781	2.316	1.981	1.728	1.531	1.374	1.245	1.138	1.048	0.970	0.903	0.845	0.794	0.748	25.9
35.1-37.0	40.0- 42.3	10.148	5.846	4.069	3.097	2.489	2.074	1.774	1.548	1.371	1.230	1.115	1.019	0.938	0.869	0.809	0.756	0.710	0.669	26.6
37.1-39.0	42.4- 44.7	9.055	5.242	3.659	2.790	2.243	1.870	1.600	1.396	1.237	1.110	1.005	0.919	0.846	0.783	0.729	0.682	0.640	0.603	27.3
39.1-41.0	44.8- 47.1	8.123	4.728	3.310	2.528	2.035	1.697	1.452	1.267	1.123	1.007	0.913	0.834	0.767	0.711	0.661	0.619	0.581	0.547	27.9
41.1-43.0	47.2- 49.6	7.320	4.285	3.010	2.303	1.855	1.548	1.325	1.156	1.025	0.919	0.833	0.761	0.700	0.648	0.604	0.564	0.530	0.499	28.4
43.1-45.0	49.7- 52.0	6.623	3.900	2.749	2.107	1.699	1.419	1.215	1.060	0.940	0.843	0.764	0.698	0.642	0.595	0.553	0.517	0.486	0.458	28.9
45.1-47.0	52.1- 54.5	6.013	3.563	2.521	1.936	1.563	1.306	1.119	0.977	0.866	0.777	0.704	0.643	0.591	0.548	0.510	0.476	0.447	0.421	29.4
47.1-49.0	54.6- 57.0	5.476	3.266	2.319	1.785	1.443	1.207	1.034	0.903	0.800	0.718	0.651	0.594	0.547	0.506	0.471	0.441	0.414	0.390	29.8
49.1-51.0	57.1- 59.5	5.001	3.002	2.141	1.652	1.337	1.119	0.959	0.838	0.743	0.666	0.604	0.552	0.508	0.470	0.437	0.409	0.384	0.361	30.2
51.1-53.0	59.6- 62.0	4.579	2.768	1.982	1.533	1.242	1.040	0.893	0.780	0.692	0.621	0.562	0.514	0.473	0.438	0.407	0.381	0.357	0.337	30.5
53.1-55.0	62.1- 64.5	4.201	2.558	1.839	1.426	1.158	0.970	0.833	0.728	0.646	0.579	0.525	0.480	0.441	0.409	0.380	0.355	0.334	0.314	30.8
55.1-57.0	64.7- 67.1	3.862	2.368	1.711	1.330	1.082	0.907	0.779	0.681	0.605	0.543	0.492	0.449	0.413	0.383	0.356	0.333	0.312	0.294	31.1
57.1-59.0	67.2- 69.6	3.557	2.198	1.595	1.243	1.013	0.851	0.731	0.639	0.567	0.509	0.462	0.422	0.388	0.359	0.334	0.313	0.293	0.276	31.3
59.1-61.0	69.8- 72.2	3.282	2.043	1.490	1.165	0.950	0.799	0.687	0.601	0.534	0.479	0.434	0.397	0.365	0.338	0.315	0.294	0.276	0.260	31.6
61.1-63.0	72.3- 74.8	3.033	1.902	1.394	1.093	0.893	0.752	0.647	0.567	0.503	0.452	0.410	0.374	0.345	0.319	0.297	0.277	0.260	0.245	31.8
63.1-65.0	74.9- 77.4	2.806	1.774	1.307	1.028	0.842	0.709	0.611	0.535	0.475	0.427	0.387	0.354	0.326	0.301	0.280	0.262	0.246	0.232	32.0
65.1-67.0	77.5- 80.0	2.600	1.657	1.227	0.968	0.794	0.670	0.578	0.506	0.450	0.404	0.367	0.335	0.308	0.285	0.266	0.248	0.233	0.219	32.1
67.1-69.0	80.2- 82.7	2.412	1.550	1.153	0.913	0.750	0.634	0.547	0.480	0.426	0.383	0.348	0.318	0.293	0.271	0.252	0.236	0.221	0.208	32.3
69.1-71.0	82.8- 85.3	2.239	1.451	1.085	0.862	0.710	0.601	0.519	0.455	0.405	0.364	0.330	0.302	0.278	0.257	0.239	0.224	0.210	0.198	32.4
71.1-73.0	85.4- 88.0	2.082	1.360	1.023	0.815	0.673	0.570	0.493	0.433	0.385	0.346	0.314	0.287	0.264	0.245	0.228	0.213	0.200	0.188	32.5
73.1-75.0	88.1- 90.7	1.937	1.276	0.965	0.772	0.638	0.542	0.469	0.412	0.367	0.330	0.299	0.274	0.252	0.233	0.217	0.203	0.191	0.179	32.7
75.1-77.0	90.8- 93.3	1.804	1.199	0.912	0.731	0.606	0.515	0.446	0.393	0.350	0.315	0.286	0.261	0.241	0.223	0.207	0.194	0.182	0.171	32.8
77.1-79.0	93.5- 96.1	1.682	1.127	0.862	0.694	0.577	0.491	0.426	0.375	0.334	0.300	0.273	0.250	0.230	0.213	0.198	0.185	0.174	0.164	32.9
79.1-81.0	96.2- 98.8	1.569	1.061	0.816	0.659	0.549	0.468	0.406	0.358	0.319	0.287	0.261	0.239	0.220	0.204	0.190	0.177	0.166	0.157	32.9

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

Table 70. Trees/m^3 of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: WHITE SPRUCE
NATURAL REGIONS: 9, 11, 14

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	16.8- 18.9	173.169	119.794	101.327	91.789	85.298	79.991	75.247	70.871	66.811	63.049	59.577	56.381	53.443	50.745	48.266	45.986	43.888	41.953	15.6
17.1-19.0	19.0- 21.2	74.307	44.163	31.851	25.032	20.664	17.615	15.361	13.624	12.244	11.119	10.186	9.397	8.723	8.140	7.629	7.180	6.780	6.423	17.1
19.1-21.0	21.3- 23.5	47.049	26.953	18.767	14.314	11.524	9.618	8.239	7.197	6.383	5.730	5.196	4.752	4.376	4.054	3.776	3.533	3.319	3.129	18.6
21.1-23.0	23.6- 25.8	34.276	19.433	13.413	10.164	8.145	6.776	5.790	5.048	4.471	4.010	3.633	3.320	3.056	2.830	2.635	2.464	2.314	2.182	19.9
23.1-25.0	25.9- 28.1	26.779	15.148	10.434	7.896	6.322	5.256	4.490	3.914	3.466	3.108	2.816	2.573	2.368	2.193	2.042	1.910	1.794	1.691	21.1
25.1-27.0	28.2- 30.4	21.805	12.344	8.505	6.437	5.154	4.285	3.660	3.191	2.826	2.534	2.296	2.098	1.931	1.789	1.665	1.558	1.463	1.379	22.3
27.1-29.0	30.5- 32.7	18.243	10.351	7.140	5.408	4.331	3.602	3.077	2.683	2.376	2.131	1.931	1.764	1.624	1.504	1.400	1.310	1.230	1.159	23.3
29.1-31.0	32.9- 35.1	15.558	8.856	6.120	4.639	3.718	3.093	2.642	2.304	2.040	1.830	1.658	1.515	1.394	1.291	1.202	1.124	1.056	0.995	24.3
31.1-33.0	35.2- 37.5	13.460	7.691	5.326	4.042	3.241	2.697	2.305	2.010	1.780	1.596	1.446	1.321	1.216	1.126	1.048	0.980	0.921	0.868	25.1
33.1-35.0	37.6- 39.9	11.775	6.757	4.690	3.564	2.860	2.381	2.035	1.774	1.571	1.409	1.277	1.167	1.074	0.994	0.925	0.865	0.813	0.766	25.9
35.1-37.0	40.0- 42.3	10.393	5.991	4.170	3.173	2.548	2.122	1.814	1.582	1.401	1.257	1.138	1.040	0.957	0.886	0.825	0.771	0.724	0.683	26.6
37.1-39.0	42.4- 44.7	9.239	5.353	3.737	2.848	2.289	1.907	1.631	1.422	1.260	1.130	1.023	0.935	0.860	0.797	0.741	0.693	0.651	0.613	27.3
39.1-41.0	44.8- 47.1	8.264	4.814	3.371	2.573	2.070	1.726	1.476	1.288	1.141	1.023	0.927	0.846	0.779	0.721	0.671	0.627	0.589	0.555	27.9
41.1-43.0	47.2- 49.6	7.430	4.352	3.058	2.339	1.883	1.571	1.344	1.173	1.039	0.932	0.844	0.771	0.709	0.657	0.611	0.571	0.536	0.505	28.4
43.1-45.0	49.7- 52.0	6.709	3.953	2.787	2.136	1.722	1.437	1.230	1.074	0.951	0.853	0.773	0.706	0.649	0.601	0.559	0.523	0.491	0.463	28.9
45.1-47.0	52.1- 54.5	6.081	3.606	2.552	1.959	1.582	1.321	1.131	0.987	0.875	0.785	0.711	0.649	0.597	0.553	0.515	0.481	0.451	0.425	29.4
47.1-49.0	54.6- 57.0	5.531	3.301	2.345	1.805	1.458	1.219	1.044	0.912	0.808	0.725	0.657	0.600	0.552	0.511	0.475	0.444	0.417	0.393	29.8
49.1-51.0	57.1- 59.5	5.045	3.031	2.162	1.668	1.350	1.129	0.968	0.845	0.749	0.672	0.609	0.556	0.512	0.474	0.441	0.412	0.387	0.364	30.2
51.1-53.0	59.6- 62.0	4.614	2.791	1.999	1.546	1.253	1.049	0.900	0.786	0.697	0.625	0.566	0.517	0.476	0.441	0.410	0.383	0.360	0.339	30.5
53.1-55.0	62.1- 64.5	4.230	2.577	1.854	1.437	1.167	0.978	0.839	0.733	0.650	0.583	0.529	0.483	0.444	0.411	0.383	0.358	0.336	0.316	30.8
55.1-57.0	64.7- 67.1	3.886	2.385	1.723	1.340	1.089	0.914	0.785	0.686	0.608	0.546	0.495	0.452	0.416	0.385	0.358	0.335	0.314	0.296	31.1
57.1-59.0	67.2- 69.6	3.577	2.211	1.605	1.251	1.019	0.856	0.735	0.643	0.571	0.512	0.464	0.424	0.390	0.361	0.336	0.314	0.295	0.278	31.3
59.1-61.0	69.8- 72.2	3.298	2.055	1.499	1.172	0.956	0.804	0.691	0.605	0.537	0.482	0.437	0.399	0.367	0.340	0.316	0.295	0.277	0.261	31.6
61.1-63.0	72.3- 74.8	3.046	1.912	1.402	1.099	0.898	0.756	0.651	0.570	0.506	0.454	0.412	0.376	0.346	0.320	0.298	0.279	0.261	0.246	31.8
63.1-65.0	74.9- 77.4	2.817	1.782	1.313	1.033	0.846	0.713	0.614	0.538	0.478	0.429	0.389	0.355	0.327	0.303	0.282	0.263	0.247	0.233	32.0
65.1-67.0	77.5- 80.0	2.609	1.664	1.232	0.972	0.798	0.673	0.580	0.508	0.452	0.406	0.368	0.336	0.310	0.287	0.267	0.249	0.234	0.220	32.1
67.1-69.0	80.2- 82.7	2.419	1.556	1.158	0.917	0.754	0.637	0.549	0.482	0.428	0.385	0.349	0.319	0.294	0.272	0.253	0.236	0.222	0.209	32.3
69.1-71.0	82.8- 85.3	2.246	1.456	1.090	0.865	0.713	0.603	0.521	0.457	0.406	0.365	0.331	0.303	0.279	0.258	0.240	0.225	0.211	0.198	32.4
71.1-73.0	85.4- 88.0	2.087	1.365	1.027	0.818	0.675	0.572	0.495	0.434	0.386	0.347	0.315	0.288	0.265	0.246	0.229	0.214	0.201	0.189	32.5
73.1-75.0	88.1- 90.7	1.942	1.280	0.968	0.774	0.641	0.544	0.470	0.413	0.368	0.331	0.300	0.275	0.253	0.234	0.218	0.204	0.191	0.180	32.7
75.1-77.0	90.8- 93.3	1.808	1.202	0.915	0.734	0.608	0.517	0.448	0.394	0.351	0.316	0.286	0.262	0.241	0.223	0.208	0.194	0.182	0.172	32.8
77.1-79.0	93.5- 96.1	1.685	1.130	0.865	0.696	0.579	0.492	0.427	0.376	0.335	0.301	0.274	0.250	0.231	0.213	0.199	0.186	0.174	0.164	32.9
79.1-81.0	96.2- 98.8	1.572	1.063	0.818	0.661	0.551	0.469	0.407	0.359	0.320	0.288	0.262	0.239	0.221	0.204	0.190	0.178	0.167	0.157	32.9

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

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

Table 71. Trees/m^3 of merchantable volume at 0.30 m stump height and 5.0 cm top dib

SPECIES: WHITE SPRUCE
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	5.3- 7.4	657.593	374.305	261.195	200.384	162.437	136.513	117.688	103.402	92.192	83.164	75.738	69.523	64.246	59.710	55.769	52.314	49.260	46.542	6.4
7.1- 9.0	7.6- 9.7	188.000	109.795	77.282	59.545	48.395	40.745	35.174	30.937	27.607	24.921	22.709	20.857	19.282	17.928	16.751	15.718	14.805	13.991	8.3
9.1-11.0	9.9- 12.0	109.140	63.921	45.048	34.732	28.241	23.784	20.536	18.065	16.122	14.555	13.264	12.183	11.264	10.473	9.786	9.183	8.649	8.174	10.1
11.1-13.0	12.2- 14.4	74.482	43.508	30.619	23.586	19.165	16.133	13.924	12.245	10.925	9.861	8.985	8.251	7.628	7.091	6.625	6.216	5.854	5.532	11.9
13.1-15.0	14.5- 16.7	55.025	32.017	22.486	17.299	14.043	11.813	10.190	8.957	7.989	7.209	6.566	6.029	5.572	5.179	4.838	4.539	4.274	4.039	13.6
15.1-17.0	16.8- 19.0	42.709	24.751	17.347	13.326	10.808	9.084	7.832	6.881	6.135	5.534	5.039	4.626	4.274	3.972	3.710	3.480	3.277	3.096	15.1
17.1-19.0	19.1- 21.3	34.310	19.811	13.857	10.632	8.614	7.235	6.234	5.474	4.879	4.399	4.005	3.675	3.396	3.155	2.946	2.763	2.601	2.457	16.6
19.1-21.0	21.4- 23.6	28.277	16.275	11.364	8.709	7.050	5.917	5.096	4.473	3.985	3.592	3.269	2.999	2.770	2.573	2.403	2.253	2.121	2.003	18.0
21.1-23.0	23.7- 25.9	23.772	13.646	9.515	7.284	5.891	4.942	4.253	3.732	3.323	2.995	2.725	2.499	2.308	2.144	2.001	1.876	1.766	1.668	19.2
23.1-25.0	26.0- 28.3	20.304	11.630	8.100	6.195	5.007	4.198	3.611	3.167	2.819	2.540	2.310	2.119	1.956	1.817	1.695	1.589	1.496	1.412	20.4
25.1-27.0	28.4- 30.6	17.567	10.047	6.991	5.343	4.316	3.616	3.109	2.726	2.426	2.185	1.987	1.822	1.682	1.561	1.457	1.366	1.285	1.213	21.5
27.1-29.0	30.7- 32.9	15.364	8.778	6.104	4.662	3.764	3.152	2.710	2.375	2.113	1.902	1.730	1.585	1.463	1.358	1.267	1.188	1.117	1.055	22.5
29.1-31.0	33.0- 35.3	13.560	7.743	5.382	4.109	3.316	2.776	2.385	2.090	1.859	1.673	1.521	1.394	1.286	1.194	1.114	1.044	0.982	0.927	23.4
31.1-33.0	35.4- 37.6	12.060	6.887	4.786	3.653	2.947	2.466	2.119	1.856	1.650	1.485	1.349	1.237	1.141	1.059	0.988	0.925	0.870	0.822	24.3
33.1-35.0	37.7- 39.9	10.799	6.169	4.288	3.272	2.639	2.208	1.896	1.660	1.476	1.328	1.207	1.106	1.020	0.946	0.883	0.827	0.778	0.734	25.0
35.1-37.0	40.1- 42.3	9.726	5.560	3.866	2.950	2.379	1.990	1.709	1.496	1.329	1.196	1.087	0.995	0.918	0.852	0.794	0.744	0.700	0.660	25.8
37.1-39.0	42.4- 44.6	8.804	5.039	3.506	2.676	2.158	1.805	1.549	1.356	1.205	1.084	0.984	0.901	0.831	0.771	0.719	0.674	0.633	0.598	26.4
39.1-41.0	44.7- 47.0	8.006	4.589	3.195	2.440	1.967	1.645	1.412	1.236	1.098	0.987	0.897	0.821	0.757	0.702	0.655	0.613	0.576	0.544	27.0
41.1-43.0	47.1- 49.3	7.310	4.198	2.926	2.234	1.802	1.507	1.293	1.131	1.005	0.904	0.821	0.751	0.693	0.643	0.599	0.561	0.527	0.498	27.6
43.1-45.0	49.5- 51.7	6.697	3.855	2.690	2.055	1.658	1.386	1.190	1.041	0.924	0.831	0.755	0.691	0.637	0.591	0.551	0.515	0.485	0.457	28.1
45.1-47.0	51.8- 54.1	6.157	3.552	2.482	1.898	1.531	1.280	1.099	0.961	0.854	0.767	0.697	0.638	0.588	0.545	0.508	0.476	0.447	0.422	28.5
47.1-49.0	54.2- 56.4	5.676	3.284	2.298	1.758	1.419	1.187	1.018	0.891	0.791	0.711	0.646	0.591	0.545	0.505	0.471	0.441	0.414	0.391	29.0
49.1-51.0	56.5- 58.8	5.246	3.044	2.134	1.634	1.319	1.104	0.947	0.828	0.736	0.661	0.600	0.549	0.506	0.469	0.437	0.409	0.385	0.363	29.4
51.1-53.0	58.9- 61.2	4.861	2.830	1.987	1.523	1.230	1.029	0.883	0.773	0.686	0.617	0.560	0.512	0.472	0.438	0.408	0.382	0.359	0.338	29.7
53.1-55.0	61.3- 63.5	4.514	2.637	1.855	1.424	1.150	0.963	0.826	0.723	0.642	0.577	0.524	0.479	0.442	0.409	0.381	0.357	0.335	0.316	30.0
55.1-57.0	63.7- 65.9	4.200	2.462	1.736	1.334	1.078	0.903	0.775	0.678	0.602	0.541	0.491	0.449	0.414	0.384	0.358	0.335	0.314	0.297	30.3
57.1-59.0	66.0- 68.3	3.915	2.304	1.628	1.252	1.013	0.849	0.729	0.637	0.566	0.509	0.462	0.422	0.389	0.361	0.336	0.315	0.296	0.279	30.6
59.1-61.0	68.4- 70.7	3.655	2.160	1.530	1.178	0.954	0.799	0.686	0.601	0.533	0.479	0.435	0.398	0.367	0.340	0.317	0.296	0.278	0.263	30.9
61.1-63.0	70.8- 73.1	3.418	2.029	1.441	1.111	0.900	0.755	0.648	0.567	0.504	0.453	0.411	0.376	0.346	0.321	0.299	0.280	0.263	0.248	31.1
63.1-65.0	73.2- 75.5	3.201	1.908	1.359	1.049	0.851	0.714	0.613	0.537	0.477	0.428	0.389	0.356	0.328	0.304	0.283	0.265	0.249	0.234	31.3
65.1-67.0	75.6- 77.9	3.002	1.798	1.284	0.993	0.806	0.676	0.581	0.509	0.452	0.406	0.369	0.337	0.311	0.288	0.268	0.251	0.236	0.222	31.5
67.1-69.0	78.0- 80.3	2.819	1.696	1.214	0.941	0.764	0.642	0.552	0.483	0.429	0.386	0.350	0.320	0.295	0.273	0.255	0.238	0.224	0.211	31.6
69.1-71.0	80.4- 82.7	2.650	1.602	1.150	0.893	0.726	0.610	0.524	0.459	0.408	0.367	0.333	0.305	0.281	0.260	0.242	0.227	0.213	0.201	31.8
71.1-73.0	82.8- 85.1	2.494	1.515	1.091	0.848	0.691	0.580	0.499	0.437	0.389	0.349	0.317	0.290	0.267	0.248	0.231	0.216	0.203	0.191	31.9
73.1-75.0	85.2- 87.5	2.350	1.435	1.036	0.807	0.658	0.553	0.476	0.417	0.371	0.333	0.303	0.277	0.255	0.236	0.220	0.206	0.194	0.182	32.1
75.1-77.0	87.6- 89.9	2.216	1.360	0.986	0.769	0.627	0.528	0.455	0.399	0.354	0.319	0.289	0.265	0.244	0.226	0.210	0.197	0.185	0.174	32.2
77.1-79.0	90.0- 92.3	2.091	1.290	0.938	0.733	0.599	0.505	0.435	0.381	0.339	0.305	0.277	0.253	0.233	0.216	0.201	0.188	0.177	0.167	32.3
79.1-81.0	92.5- 94.8	1.975	1.225	0.894	0.700	0.573	0.483	0.416	0.365	0.325	0.292	0.265	0.242	0.223	0.207	0.193	0.180	0.169	0.160	32.4

Table 72. Trees/m^3 of merchantable volume at 0.30 m stump height and 7.0 cm top dib

SPECIES: WHITE SPRUCE
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	7.6- 9.7	543.503	312.727	221.819	172.541	141.420	119.908	104.119	92.023	82.454	74.691	68.264	62.856	58.242	54.257	50.782	47.725	45.014	42.593	8.3
9.1-11.0	9.9- 12.0	145.871	83.474	58.162	44.530	36.035	30.242	26.043	22.862	20.369	18.363	16.716	15.338	14.169	13.164	12.292	11.528	10.853	10.252	10.1
11.1-13.0	12.2- 14.4	85.694	49.334	34.468	26.434	21.415	17.987	15.500	13.613	12.134	10.943	9.963	9.144	8.449	7.852	7.333	6.878	6.476	6.118	11.9
13.1-15.0	14.5- 16.7	59.803	34.453	24.077	18.466	14.960	12.565	10.827	9.509	8.475	7.643	6.959	6.386	5.901	5.483	5.121	4.803	4.522	4.272	13.6
15.1-17.0	16.8- 19.0	45.135	25.967	18.132	13.899	11.255	9.450	8.140	7.147	6.369	5.742	5.227	4.797	4.431	4.117	3.845	3.606	3.395	3.207	15.1
17.1-19.0	19.1- 21.3	35.687	20.491	14.292	10.946	8.858	7.434	6.401	5.618	5.005	4.512	4.106	3.767	3.480	3.233	3.018	2.830	2.664	2.517	16.6
19.1-21.0	21.4- 23.6	29.123	16.688	11.626	8.897	7.195	6.035	5.194	4.557	4.058	3.657	3.328	3.053	2.819	2.619	2.445	2.292	2.157	2.038	18.0
21.1-23.0	23.7- 25.9	24.322	13.912	9.682	7.403	5.983	5.016	4.315	3.785	3.369	3.036	2.762	2.533	2.338	2.172	2.027	1.900	1.788	1.689	19.2
23.1-25.0	26.0- 28.3	20.678	11.810	8.212	6.275	5.068	4.247	3.652	3.202	2.850	2.567	2.334	2.140	1.976	1.835	1.712	1.605	1.510	1.426	20.4
25.1-27.0	28.4- 30.6	17.831	10.173	7.069	5.398	4.358	3.650	3.137	2.750	2.447	2.203	2.003	1.836	1.695	1.574	1.468	1.376	1.295	1.223	21.5
27.1-29.0	30.7- 32.9	15.556	8.870	6.161	4.702	3.794	3.176	2.730	2.392	2.127	1.915	1.741	1.596	1.473	1.367	1.275	1.195	1.124	1.061	22.5
29.1-31.0	33.0- 35.3	13.703	7.811	5.424	4.139	3.338	2.794	2.400	2.102	1.869	1.683	1.529	1.401	1.293	1.200	1.120	1.049	0.987	0.931	23.4
31.1-33.0	35.4- 37.6	12.169	6.938	4.818	3.675	2.964	2.480	2.129	1.865	1.658	1.492	1.356	1.242	1.146	1.063	0.992	0.929	0.874	0.825	24.3
33.1-35.0	37.7- 39.9	10.883	6.209	4.312	3.289	2.652	2.218	1.905	1.667	1.482	1.333	1.211	1.110	1.024	0.950	0.886	0.830	0.780	0.737	25.0
35.1-37.0	40.1- 42.3	9.792	5.592	3.886	2.964	2.389	1.998	1.715	1.501	1.334	1.200	1.090	0.999	0.921	0.854	0.797	0.746	0.702	0.662	25.8
37.1-39.0	42.4- 44.6	8.857	5.064	3.521	2.687	2.166	1.811	1.554	1.360	1.209	1.087	0.987	0.904	0.834	0.773	0.721	0.675	0.635	0.599	26.4
39.1-41.0	44.7- 47.0	8.048	4.610	3.208	2.448	1.974	1.650	1.416	1.239	1.101	0.990	0.899	0.823	0.759	0.704	0.656	0.615	0.578	0.545	27.0
41.1-43.0	47.1- 49.3	7.344	4.215	2.936	2.242	1.807	1.511	1.297	1.134	1.008	0.906	0.823	0.753	0.694	0.644	0.600	0.562	0.528	0.499	27.6
43.1-45.0	49.5- 51.7	6.726	3.869	2.698	2.061	1.662	1.390	1.192	1.043	0.926	0.833	0.756	0.692	0.638	0.592	0.552	0.516	0.486	0.458	28.1
45.1-47.0	51.8- 54.1	6.180	3.564	2.489	1.903	1.535	1.283	1.101	0.963	0.855	0.769	0.698	0.639	0.589	0.546	0.509	0.476	0.448	0.422	28.5
47.1-49.0	54.2- 56.4	5.695	3.293	2.304	1.762	1.422	1.189	1.020	0.893	0.793	0.712	0.647	0.592	0.546	0.506	0.471	0.441	0.415	0.391	29.0
49.1-51.0	56.5- 58.8	5.263	3.053	2.139	1.638	1.322	1.106	0.949	0.830	0.737	0.662	0.601	0.550	0.507	0.470	0.438	0.410	0.385	0.363	29.4
51.1-53.0	58.9- 61.2	4.875	2.837	1.992	1.526	1.233	1.031	0.885	0.774	0.687	0.618	0.561	0.513	0.473	0.438	0.408	0.382	0.359	0.339	29.7
53.1-55.0	61.3- 63.5	4.525	2.643	1.859	1.426	1.152	0.964	0.828	0.724	0.643	0.578	0.524	0.480	0.442	0.410	0.382	0.357	0.336	0.317	30.0
55.1-57.0	63.7- 65.9	4.210	2.468	1.740	1.336	1.080	0.904	0.776	0.679	0.603	0.542	0.492	0.450	0.415	0.384	0.358	0.335	0.315	0.297	30.3
57.1-59.0	66.0- 68.3	3.923	2.309	1.631	1.254	1.015	0.850	0.730	0.638	0.567	0.509	0.462	0.423	0.390	0.361	0.336	0.315	0.296	0.279	30.6
59.1-61.0	68.4- 70.7	3.663	2.164	1.533	1.180	0.956	0.800	0.687	0.601	0.534	0.480	0.436	0.399	0.367	0.340	0.317	0.297	0.279	0.263	30.9
61.1-63.0	70.8- 73.1	3.425	2.032	1.443	1.113	0.901	0.756	0.649	0.568	0.504	0.453	0.411	0.376	0.347	0.321	0.299	0.280	0.263	0.248	31.1
63.1-65.0	73.2- 75.5	3.207	1.911	1.361	1.051	0.852	0.714	0.614	0.537	0.477	0.429	0.389	0.356	0.328	0.304	0.283	0.265	0.249	0.235	31.3
65.1-67.0	75.6- 77.9	3.007	1.800	1.285	0.994	0.807	0.677	0.582	0.509	0.452	0.407	0.369	0.338	0.311	0.288	0.268	0.251	0.236	0.222	31.5
67.1-69.0	78.0- 80.3	2.823	1.698	1.216	0.942	0.765	0.642	0.552	0.483	0.429	0.386	0.350	0.321	0.295	0.274	0.255	0.238	0.224	0.211	31.6
69.1-71.0	80.4- 82.7	2.654	1.604	1.152	0.894	0.727	0.610	0.525	0.460	0.408	0.367	0.333	0.305	0.281	0.260	0.242	0.227	0.213	0.201	31.8
71.1-73.0	82.8- 85.1	2.497	1.517	1.093	0.849	0.691	0.581	0.500	0.438	0.389	0.350	0.317	0.290	0.268	0.248	0.231	0.216	0.203	0.191	31.9
73.1-75.0	85.2- 87.5	2.352	1.436	1.038	0.808	0.658	0.554	0.477	0.418	0.371	0.334	0.303	0.277	0.255	0.237	0.220	0.206	0.194	0.183	32.1
75.1-77.0	87.6- 89.9	2.218	1.361	0.987	0.770	0.628	0.528	0.455	0.399	0.355	0.319	0.289	0.265	0.244	0.226	0.211	0.197	0.185	0.174	32.2
77.1-79.0	90.0- 92.3	2.093	1.292	0.939	0.734	0.600	0.505	0.435	0.381	0.339	0.305	0.277	0.253	0.233	0.216	0.201	0.188	0.177	0.167	32.3
79.1-81.0	92.5- 94.8	1.977	1.227	0.895	0.701	0.573	0.483	0.416	0.365	0.325	0.292	0.265	0.243	0.224	0.207	0.193	0.181	0.170	0.160	32.4

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

Table 73. Trees/m^3 of merchantable volume at 0.30 m stump height and 10.0 cm top dib

SPECIES: WHITE SPRUCE
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	12.2- 14.4	174.232	100.081	70.405	54.335	44.240	37.305	32.245	28.390	25.356	22.906	20.886	19.192	17.751	16.510	15.431	14.484	13.646	12.899	11.9
13.1-15.0	14.5- 16.7	82.847	46.887	32.467	24.749	19.961	16.708	14.358	12.582	11.194	10.079	9.165	8.402	7.755	7.201	6.719	6.298	5.926	5.596	13.6
15.1-17.0	16.8- 19.0	54.647	30.972	21.453	16.356	13.195	11.047	9.495	8.322	7.405	6.668	6.064	5.560	5.133	4.766	4.448	4.169	3.923	3.705	15.1
17.1-19.0	19.1- 21.3	40.506	22.986	15.930	12.149	9.803	8.208	7.056	6.185	5.503	4.956	4.507	4.133	3.815	3.543	3.306	3.099	2.916	2.754	16.6
19.1-21.0	21.4- 23.6	31.875	18.096	12.543	9.566	7.718	6.462	5.554	4.868	4.331	3.901	3.547	3.252	3.002	2.787	2.601	2.438	2.294	2.166	18.0
21.1-23.0	23.7- 25.9	26.025	14.776	10.240	7.809	6.299	5.273	4.531	3.970	3.532	3.180	2.892	2.651	2.447	2.272	2.120	1.987	1.869	1.765	19.2
23.1-25.0	26.0- 28.3	21.795	12.373	8.574	6.536	5.271	4.411	3.790	3.320	2.953	2.659	2.417	2.215	2.045	1.898	1.771	1.660	1.561	1.474	20.4
25.1-27.0	28.4- 30.6	18.597	10.558	7.315	5.575	4.495	3.760	3.230	2.829	2.516	2.264	2.058	1.886	1.741	1.616	1.507	1.412	1.329	1.254	21.5
27.1-29.0	30.7- 32.9	16.100	9.141	6.334	4.826	3.890	3.254	2.794	2.447	2.175	1.958	1.779	1.630	1.504	1.396	1.302	1.220	1.148	1.083	22.5
29.1-31.0	33.0- 35.3	14.100	8.009	5.550	4.229	3.408	2.849	2.446	2.142	1.904	1.713	1.557	1.426	1.315	1.221	1.139	1.067	1.003	0.947	23.4
31.1-33.0	35.4- 37.6	12.466	7.087	4.912	3.743	3.015	2.521	2.164	1.894	1.683	1.514	1.376	1.260	1.162	1.078	1.006	0.942	0.886	0.836	24.3
33.1-35.0	37.7- 39.9	11.110	6.322	4.384	3.341	2.691	2.250	1.930	1.689	1.501	1.350	1.227	1.123	1.036	0.961	0.896	0.840	0.789	0.745	25.0
35.1-37.0	40.1- 42.3	9.968	5.680	3.941	3.004	2.420	2.022	1.735	1.518	1.349	1.213	1.102	1.009	0.930	0.863	0.805	0.754	0.709	0.669	25.8
37.1-39.0	42.4- 44.6	8.995	5.134	3.566	2.718	2.190	1.830	1.570	1.373	1.220	1.097	0.996	0.912	0.841	0.780	0.727	0.681	0.640	0.604	26.4
39.1-41.0	44.7- 47.0	8.159	4.665	3.243	2.473	1.993	1.665	1.429	1.250	1.110	0.998	0.906	0.830	0.765	0.709	0.661	0.619	0.582	0.549	27.0
41.1-43.0	47.1- 49.3	7.433	4.260	2.965	2.262	1.823	1.523	1.307	1.143	1.015	0.912	0.828	0.758	0.699	0.648	0.604	0.566	0.532	0.502	27.6
43.1-45.0	49.5- 51.7	6.798	3.906	2.722	2.078	1.675	1.400	1.201	1.050	0.933	0.838	0.761	0.696	0.642	0.595	0.555	0.519	0.488	0.461	28.1
45.1-47.0	51.8- 54.1	6.239	3.594	2.509	1.917	1.545	1.292	1.108	0.969	0.860	0.773	0.702	0.642	0.592	0.549	0.512	0.479	0.450	0.425	28.5
47.1-49.0	54.2- 56.4	5.744	3.319	2.320	1.774	1.431	1.196	1.026	0.897	0.797	0.716	0.650	0.595	0.548	0.508	0.474	0.443	0.417	0.393	29.0
49.1-51.0	56.5- 58.8	5.303	3.074	2.153	1.648	1.329	1.112	0.954	0.834	0.740	0.665	0.604	0.553	0.509	0.472	0.440	0.412	0.387	0.365	29.4
51.1-53.0	58.9- 61.2	4.909	2.855	2.003	1.535	1.239	1.036	0.889	0.778	0.690	0.620	0.563	0.515	0.475	0.440	0.410	0.384	0.361	0.340	29.7
53.1-55.0	61.3- 63.5	4.554	2.658	1.869	1.433	1.158	0.969	0.831	0.727	0.645	0.580	0.526	0.482	0.444	0.411	0.383	0.359	0.337	0.318	30.0
55.1-57.0	63.7- 65.9	4.234	2.481	1.748	1.342	1.085	0.908	0.779	0.682	0.605	0.544	0.493	0.451	0.416	0.385	0.359	0.336	0.316	0.298	30.3
57.1-59.0	66.0- 68.3	3.944	2.320	1.639	1.260	1.019	0.853	0.732	0.641	0.569	0.511	0.464	0.424	0.391	0.362	0.337	0.316	0.297	0.280	30.6
59.1-61.0	68.4- 70.7	3.680	2.174	1.539	1.185	0.959	0.803	0.690	0.603	0.536	0.481	0.437	0.400	0.368	0.341	0.318	0.297	0.279	0.263	30.9
61.1-63.0	70.8- 73.1	3.440	2.041	1.449	1.117	0.905	0.758	0.651	0.570	0.506	0.455	0.412	0.377	0.348	0.322	0.300	0.281	0.264	0.249	31.1
63.1-65.0	73.2- 75.5	3.220	1.919	1.366	1.054	0.855	0.717	0.616	0.539	0.478	0.430	0.390	0.357	0.329	0.305	0.284	0.266	0.249	0.235	31.3
65.1-67.0	75.6- 77.9	3.018	1.807	1.290	0.997	0.809	0.679	0.583	0.511	0.453	0.408	0.370	0.338	0.312	0.289	0.269	0.252	0.236	0.223	31.5
67.1-69.0	78.0- 80.3	2.833	1.704	1.220	0.945	0.767	0.644	0.554	0.485	0.431	0.387	0.351	0.321	0.296	0.274	0.255	0.239	0.224	0.212	31.6
69.1-71.0	80.4- 82.7	2.662	1.609	1.155	0.896	0.729	0.612	0.526	0.461	0.409	0.368	0.334	0.306	0.281	0.261	0.243	0.227	0.213	0.201	31.8
71.1-73.0	82.8- 85.1	2.505	1.522	1.096	0.852	0.693	0.582	0.501	0.439	0.390	0.351	0.318	0.291	0.268	0.248	0.231	0.216	0.203	0.192	31.9
73.1-75.0	85.2- 87.5	2.359	1.440	1.040	0.810	0.660	0.555	0.478	0.419	0.372	0.334	0.303	0.278	0.256	0.237	0.221	0.207	0.194	0.183	32.1
75.1-77.0	87.6- 89.9	2.224	1.365	0.989	0.772	0.629	0.530	0.456	0.400	0.355	0.319	0.290	0.265	0.244	0.226	0.211	0.197	0.185	0.175	32.2
77.1-79.0	90.0- 92.3	2.098	1.295	0.941	0.736	0.601	0.506	0.436	0.382	0.340	0.306	0.277	0.254	0.234	0.217	0.202	0.189	0.177	0.167	32.3
79.1-81.0	92.5- 94.8	1.982	1.229	0.897	0.702	0.574	0.484	0.417	0.366	0.325	0.293	0.266	0.243	0.224	0.207	0.193	0.181	0.170	0.160	32.4

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

Table 74. Trees/m^3 of merchantable volume at 0.30 m stump height and 11.0 cm top dib

SPECIES: WHITE SPRUCE
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	12.2- 14.4	352.045	215.894	162.418	132.250	112.236	97.735	86.640	77.836	70.660	64.691	59.646	55.322	51.577	48.300	45.409	42.841	40.544	38.477	11.9
13.1-15.0	14.5- 16.7	103.785	59.004	41.059	31.407	25.391	21.289	18.316	16.065	14.302	12.884	11.721	10.748	9.923	9.215	8.601	8.063	7.588	7.165	13.6
15.1-17.0	16.8- 19.0	61.300	34.634	23.949	18.236	14.695	12.292	10.557	9.247	8.224	7.402	6.729	6.167	5.691	5.283	4.929	4.620	4.346	4.103	15.1
17.1-19.0	19.1- 21.3	43.469	24.578	16.997	12.943	10.431	8.726	7.495	6.566	5.840	5.257	4.779	4.381	4.043	3.753	3.502	3.282	3.088	2.915	16.6
19.1-21.0	21.4- 23.6	33.444	18.926	13.093	9.973	8.038	6.725	5.776	5.060	4.501	4.052	3.683	3.376	3.116	2.893	2.699	2.529	2.380	2.247	18.0
21.1-23.0	23.7- 25.9	26.949	15.259	10.559	8.042	6.482	5.423	4.657	4.080	3.628	3.266	2.969	2.721	2.511	2.331	2.175	2.038	1.918	1.810	19.2
23.1-25.0	26.0- 28.3	22.380	12.677	8.773	6.682	5.385	4.504	3.868	3.387	3.012	2.711	2.464	2.258	2.084	1.934	1.804	1.691	1.591	1.502	20.4
25.1-27.0	28.4- 30.6	18.988	10.760	7.447	5.671	4.569	3.821	3.281	2.873	2.554	2.299	2.089	1.914	1.766	1.639	1.529	1.433	1.348	1.272	21.5
27.1-29.0	30.7- 32.9	16.372	9.282	6.425	4.893	3.941	3.295	2.829	2.477	2.201	1.981	1.800	1.649	1.521	1.412	1.317	1.234	1.160	1.095	22.5
29.1-31.0	33.0- 35.3	14.295	8.110	5.615	4.276	3.444	2.879	2.471	2.163	1.922	1.729	1.571	1.439	1.328	1.232	1.149	1.076	1.012	0.955	23.4
31.1-33.0	35.4- 37.6	12.610	7.161	4.960	3.777	3.042	2.543	2.182	1.909	1.697	1.526	1.386	1.270	1.171	1.087	1.013	0.949	0.893	0.842	24.3
33.1-35.0	37.7- 39.9	11.218	6.378	4.420	3.367	2.711	2.266	1.944	1.701	1.511	1.359	1.234	1.131	1.043	0.967	0.902	0.845	0.794	0.750	25.0
35.1-37.0	40.1- 42.3	10.051	5.723	3.969	3.024	2.435	2.035	1.746	1.527	1.357	1.220	1.108	1.014	0.935	0.868	0.809	0.758	0.712	0.672	25.8
37.1-39.0	42.4- 44.6	9.060	5.168	3.587	2.734	2.202	1.840	1.578	1.380	1.226	1.102	1.001	0.916	0.845	0.784	0.731	0.684	0.643	0.607	26.4
39.1-41.0	44.7- 47.0	8.210	4.692	3.261	2.486	2.002	1.673	1.435	1.255	1.115	1.002	0.910	0.833	0.768	0.712	0.664	0.622	0.584	0.551	27.0
41.1-43.0	47.1- 49.3	7.474	4.281	2.979	2.272	1.831	1.530	1.312	1.147	1.019	0.916	0.831	0.761	0.701	0.650	0.606	0.568	0.534	0.503	27.6
43.1-45.0	49.5- 51.7	6.831	3.923	2.733	2.086	1.681	1.405	1.205	1.054	0.936	0.841	0.763	0.699	0.644	0.597	0.556	0.521	0.490	0.462	28.1
45.1-47.0	51.8- 54.1	6.266	3.609	2.518	1.923	1.550	1.296	1.111	0.972	0.863	0.775	0.704	0.644	0.594	0.550	0.513	0.480	0.451	0.426	28.5
47.1-49.0	54.2- 56.4	5.766	3.331	2.328	1.780	1.435	1.200	1.029	0.900	0.799	0.718	0.652	0.596	0.549	0.509	0.475	0.444	0.418	0.394	29.0
49.1-51.0	56.5- 58.8	5.322	3.084	2.159	1.652	1.333	1.115	0.956	0.836	0.742	0.667	0.605	0.554	0.510	0.473	0.441	0.413	0.388	0.366	29.4
51.1-53.0	58.9- 61.2	4.924	2.863	2.009	1.539	1.242	1.039	0.891	0.779	0.692	0.622	0.564	0.516	0.476	0.441	0.411	0.384	0.361	0.341	29.7
53.1-55.0	61.3- 63.5	4.567	2.665	1.874	1.437	1.161	0.971	0.833	0.728	0.647	0.581	0.527	0.482	0.445	0.412	0.384	0.359	0.338	0.318	30.0
55.1-57.0	63.7- 65.9	4.245	2.487	1.752	1.345	1.087	0.910	0.781	0.683	0.606	0.545	0.494	0.452	0.417	0.386	0.360	0.337	0.316	0.298	30.3
57.1-59.0	66.0- 68.3	3.953	2.325	1.642	1.262	1.021	0.855	0.734	0.642	0.570	0.512	0.464	0.425	0.391	0.363	0.338	0.316	0.297	0.280	30.6
59.1-61.0	68.4- 70.7	3.688	2.179	1.542	1.187	0.961	0.805	0.691	0.604	0.537	0.482	0.437	0.400	0.369	0.342	0.318	0.298	0.280	0.264	30.9
61.1-63.0	70.8- 73.1	3.447	2.045	1.451	1.119	0.906	0.759	0.652	0.570	0.507	0.455	0.413	0.378	0.348	0.323	0.300	0.281	0.264	0.249	31.1
63.1-65.0	73.2- 75.5	3.226	1.922	1.368	1.056	0.856	0.718	0.617	0.540	0.479	0.431	0.391	0.357	0.329	0.305	0.284	0.266	0.250	0.235	31.3
65.1-67.0	75.6- 77.9	3.023	1.810	1.292	0.999	0.810	0.680	0.584	0.511	0.454	0.408	0.370	0.339	0.312	0.289	0.269	0.252	0.237	0.223	31.5
67.1-69.0	78.0- 80.3	2.837	1.707	1.222	0.946	0.768	0.645	0.554	0.485	0.431	0.387	0.352	0.322	0.296	0.274	0.256	0.239	0.225	0.212	31.6
69.1-71.0	80.4- 82.7	2.666	1.612	1.157	0.897	0.730	0.613	0.527	0.461	0.410	0.368	0.334	0.306	0.282	0.261	0.243	0.227	0.214	0.201	31.8
71.1-73.0	82.8- 85.1	2.508	1.524	1.097	0.853	0.694	0.583	0.502	0.439	0.390	0.351	0.318	0.291	0.268	0.249	0.232	0.217	0.204	0.192	31.9
73.1-75.0	85.2- 87.5	2.362	1.442	1.042	0.811	0.661	0.556	0.478	0.419	0.372	0.335	0.304	0.278	0.256	0.237	0.221	0.207	0.194	0.183	32.1
75.1-77.0	87.6- 89.9	2.226	1.366	0.990	0.772	0.630	0.530	0.457	0.400	0.356	0.320	0.290	0.265	0.245	0.227	0.211	0.197	0.185	0.175	32.2
77.1-79.0	90.0- 92.3	2.101	1.296	0.942	0.737	0.602	0.507	0.436	0.383	0.340	0.306	0.278	0.254	0.234	0.217	0.202	0.189	0.177	0.167	32.3
79.1-81.0	92.5- 94.8	1.984	1.231	0.898	0.703	0.575	0.485	0.418	0.366	0.326	0.293	0.266	0.243	0.224	0.208	0.193	0.181	0.170	0.160	32.4

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

Table 75. Trees/m^3 of merchantable volume at 0.30 m stump height and 13.0 cm top dib

SPECIES: WHITE SPRUCE
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	14.5- 16.7	274.424	173.894	134.594	112.009	96.607	85.132	76.137	68.855	62.824	57.742	53.401	49.650	46.378	43.499	40.948	38.672	36.629	34.787	13.6
15.1-17.0	16.8- 19.0	89.933	51.699	36.329	27.993	22.755	19.160	16.539	14.544	12.976	11.711	10.670	9.797	9.055	8.417	7.863	7.377	6.947	6.564	15.1
17.1-19.0	19.1- 21.3	53.750	30.380	21.016	16.000	12.887	10.773	9.247	8.095	7.195	6.473	5.882	5.389	4.971	4.613	4.303	4.031	3.792	3.579	16.6
19.1-21.0	21.4- 23.6	38.336	21.613	14.917	11.339	9.124	7.623	6.540	5.723	5.086	4.575	4.157	3.808	3.512	3.259	3.040	2.848	2.679	2.528	18.0
21.1-23.0	23.7- 25.9	29.655	16.722	11.540	8.771	7.058	5.896	5.059	4.427	3.934	3.539	3.215	2.946	2.717	2.521	2.352	2.203	2.072	1.956	19.2
23.1-25.0	26.0- 28.3	24.025	13.557	9.359	7.114	5.725	4.783	4.103	3.591	3.191	2.870	2.608	2.389	2.204	2.045	1.907	1.787	1.680	1.586	20.4
25.1-27.0	28.4- 30.6	20.056	11.327	7.822	5.947	4.786	3.998	3.430	3.001	2.667	2.399	2.179	1.996	1.841	1.708	1.593	1.493	1.404	1.325	21.5
27.1-29.0	30.7- 32.9	17.099	9.667	6.679	5.078	4.087	3.414	2.928	2.562	2.277	2.047	1.860	1.703	1.571	1.458	1.359	1.273	1.198	1.130	22.5
29.1-31.0	33.0- 35.3	14.809	8.382	5.794	4.406	3.546	2.962	2.540	2.223	1.974	1.776	1.613	1.477	1.362	1.264	1.178	1.104	1.038	0.979	23.4
31.1-33.0	35.4- 37.6	12.985	7.359	5.090	3.872	3.116	2.602	2.232	1.952	1.734	1.559	1.416	1.297	1.196	1.109	1.034	0.969	0.911	0.860	24.3
33.1-35.0	37.7- 39.9	11.498	6.526	4.517	3.437	2.766	2.310	1.981	1.733	1.539	1.384	1.256	1.150	1.061	0.984	0.917	0.859	0.808	0.762	25.0
35.1-37.0	40.1- 42.3	10.264	5.836	4.043	3.077	2.477	2.068	1.774	1.551	1.378	1.238	1.124	1.029	0.949	0.880	0.821	0.768	0.722	0.682	25.8
37.1-39.0	42.4- 44.6	9.225	5.255	3.645	2.775	2.234	1.866	1.600	1.399	1.242	1.117	1.014	0.928	0.855	0.793	0.739	0.692	0.651	0.614	26.4
39.1-41.0	44.7- 47.0	8.339	4.761	3.306	2.519	2.028	1.694	1.452	1.270	1.127	1.013	0.920	0.842	0.776	0.720	0.671	0.628	0.590	0.557	27.0
41.1-43.0	47.1- 49.3	7.577	4.337	3.015	2.299	1.851	1.546	1.326	1.159	1.029	0.925	0.839	0.768	0.708	0.656	0.612	0.573	0.538	0.508	27.6
43.1-45.0	49.5- 51.7	6.914	3.968	2.763	2.108	1.698	1.418	1.216	1.063	0.944	0.848	0.770	0.704	0.649	0.602	0.561	0.525	0.494	0.465	28.1
45.1-47.0	51.8- 54.1	6.334	3.645	2.542	1.941	1.564	1.307	1.120	0.980	0.870	0.781	0.709	0.649	0.598	0.554	0.517	0.484	0.454	0.429	28.5
47.1-49.0	54.2- 56.4	5.822	3.361	2.348	1.794	1.447	1.209	1.037	0.906	0.804	0.723	0.656	0.600	0.553	0.513	0.478	0.447	0.420	0.396	29.0
49.1-51.0	56.5- 58.8	5.367	3.109	2.176	1.665	1.343	1.122	0.962	0.841	0.747	0.671	0.609	0.557	0.513	0.476	0.443	0.415	0.390	0.368	29.4
51.1-53.0	58.9- 61.2	4.962	2.885	2.023	1.549	1.250	1.045	0.896	0.784	0.696	0.625	0.567	0.519	0.478	0.443	0.413	0.386	0.363	0.342	29.7
53.1-55.0	61.3- 63.5	4.599	2.683	1.886	1.446	1.167	0.976	0.838	0.732	0.650	0.584	0.530	0.485	0.447	0.414	0.386	0.361	0.339	0.320	30.0
55.1-57.0	63.7- 65.9	4.272	2.502	1.763	1.353	1.093	0.914	0.785	0.686	0.609	0.547	0.496	0.454	0.418	0.388	0.361	0.338	0.318	0.299	30.3
57.1-59.0	66.0- 68.3	3.976	2.338	1.651	1.269	1.026	0.859	0.737	0.645	0.572	0.514	0.466	0.427	0.393	0.364	0.339	0.317	0.298	0.281	30.6
59.1-61.0	68.4- 70.7	3.707	2.190	1.550	1.193	0.965	0.808	0.694	0.607	0.539	0.484	0.439	0.402	0.370	0.343	0.319	0.299	0.281	0.265	30.9
61.1-63.0	70.8- 73.1	3.463	2.054	1.458	1.124	0.910	0.762	0.655	0.573	0.508	0.457	0.414	0.379	0.349	0.324	0.301	0.282	0.265	0.250	31.1
63.1-65.0	73.2- 75.5	3.240	1.931	1.374	1.060	0.860	0.720	0.619	0.541	0.481	0.432	0.392	0.359	0.330	0.306	0.285	0.267	0.250	0.236	31.3
65.1-67.0	75.6- 77.9	3.035	1.817	1.297	1.003	0.813	0.682	0.586	0.513	0.455	0.409	0.371	0.340	0.313	0.290	0.270	0.253	0.237	0.224	31.5
67.1-69.0	78.0- 80.3	2.848	1.713	1.226	0.949	0.771	0.647	0.556	0.487	0.432	0.388	0.353	0.322	0.297	0.275	0.256	0.240	0.225	0.212	31.6
69.1-71.0	80.4- 82.7	2.675	1.617	1.161	0.900	0.732	0.615	0.528	0.463	0.411	0.369	0.335	0.307	0.282	0.262	0.244	0.228	0.214	0.202	31.8
71.1-73.0	82.8- 85.1	2.516	1.528	1.101	0.855	0.696	0.585	0.503	0.441	0.391	0.352	0.319	0.292	0.269	0.249	0.232	0.217	0.204	0.192	31.9
73.1-75.0	85.2- 87.5	2.369	1.446	1.045	0.813	0.663	0.557	0.479	0.420	0.373	0.335	0.304	0.279	0.257	0.238	0.221	0.207	0.195	0.183	32.1
75.1-77.0	87.6- 89.9	2.232	1.370	0.993	0.775	0.632	0.532	0.458	0.401	0.356	0.320	0.291	0.266	0.245	0.227	0.211	0.198	0.186	0.175	32.2
77.1-79.0	90.0- 92.3	2.106	1.300	0.945	0.738	0.603	0.508	0.437	0.383	0.341	0.306	0.278	0.254	0.234	0.217	0.202	0.189	0.178	0.168	32.3
79.1-81.0	92.5- 94.8	1.988	1.234	0.900	0.705	0.576	0.486	0.419	0.367	0.326	0.293	0.266	0.244	0.225	0.208	0.194	0.181	0.170	0.160	32.4

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

Table 76. Trees/m³ of merchantable volume at 0.30 m stump height and 15.0 cm top dib

SPECIES: WHITE SPRUCE
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	16.8- 19.0	212.954	138.873	110.292	93.698	82.093	73.199	66.045	60.128	55.142	50.882	47.202	43.994	41.176	38.682	36.460	34.471	32.679	31.059	15.1
17.1-19.0	19.1- 21.3	78.189	45.665	32.547	25.365	20.808	17.650	15.329	13.550	12.143	11.000	10.055	9.259	8.580	7.994	7.482	7.032	6.633	6.277	16.6
19.1-21.0	21.4- 23.6	47.616	27.069	18.807	14.355	11.581	9.691	8.323	7.289	6.480	5.830	5.298	4.854	4.478	4.155	3.875	3.630	3.415	3.223	18.0
21.1-23.0	23.7- 25.9	34.212	19.317	13.342	10.141	8.156	6.810	5.839	5.107	4.536	4.078	3.703	3.391	3.127	2.900	2.704	2.533	2.382	2.247	19.2
23.1-25.0	26.0- 28.3	26.601	14.997	10.344	7.855	6.314	5.270	4.517	3.950	3.508	3.154	2.864	2.622	2.418	2.242	2.091	1.958	1.841	1.737	20.4
25.1-27.0	28.4- 30.6	21.648	12.207	8.419	6.393	5.138	4.288	3.676	3.214	2.854	2.566	2.330	2.133	1.967	1.824	1.701	1.593	1.498	1.413	21.5
27.1-29.0	30.7- 32.9	18.147	10.242	7.066	5.366	4.314	3.600	3.086	2.698	2.396	2.154	1.956	1.791	1.651	1.531	1.428	1.337	1.257	1.186	22.5
29.1-31.0	33.0- 35.3	15.531	8.776	6.059	4.603	3.700	3.088	2.647	2.314	2.055	1.847	1.677	1.535	1.416	1.313	1.224	1.146	1.078	1.017	23.4
31.1-33.0	35.4- 37.6	13.500	7.640	5.278	4.011	3.225	2.691	2.307	2.017	1.791	1.609	1.461	1.338	1.233	1.144	1.066	0.998	0.939	0.886	24.3
33.1-35.0	37.7- 39.9	11.876	6.732	4.655	3.539	2.846	2.375	2.035	1.780	1.580	1.420	1.289	1.180	1.088	1.009	0.940	0.880	0.828	0.781	25.0
35.1-37.0	40.1- 42.3	10.548	5.991	4.147	3.154	2.536	2.117	1.814	1.586	1.408	1.265	1.149	1.051	0.969	0.899	0.838	0.784	0.737	0.695	25.8
37.1-39.0	42.4- 44.6	9.443	5.375	3.725	2.834	2.280	1.903	1.631	1.426	1.265	1.137	1.032	0.945	0.871	0.807	0.752	0.704	0.662	0.625	26.4
39.1-41.0	44.7- 47.0	8.509	4.855	3.369	2.565	2.064	1.723	1.476	1.291	1.145	1.029	0.934	0.855	0.788	0.730	0.681	0.637	0.599	0.565	27.0
41.1-43.0	47.1- 49.3	7.711	4.411	3.065	2.335	1.879	1.569	1.345	1.175	1.043	0.937	0.851	0.778	0.717	0.665	0.620	0.580	0.545	0.514	27.6
43.1-45.0	49.5- 51.7	7.021	4.027	2.803	2.137	1.721	1.437	1.231	1.076	0.955	0.858	0.779	0.713	0.657	0.609	0.567	0.531	0.499	0.471	28.1
45.1-47.0	51.8- 54.1	6.420	3.694	2.575	1.965	1.583	1.322	1.133	0.990	0.879	0.790	0.716	0.656	0.604	0.560	0.522	0.488	0.459	0.433	28.5
47.1-49.0	54.2- 56.4	5.892	3.401	2.375	1.814	1.462	1.221	1.047	0.915	0.812	0.730	0.662	0.606	0.558	0.517	0.482	0.451	0.424	0.400	29.0
49.1-51.0	56.5- 58.8	5.425	3.142	2.199	1.681	1.355	1.133	0.971	0.849	0.753	0.677	0.614	0.562	0.517	0.480	0.447	0.418	0.393	0.370	29.4
51.1-53.0	58.9- 61.2	5.010	2.912	2.042	1.563	1.261	1.054	0.904	0.790	0.701	0.630	0.571	0.523	0.482	0.446	0.416	0.389	0.366	0.345	29.7
53.1-55.0	61.3- 63.5	4.639	2.706	1.902	1.457	1.177	0.984	0.844	0.738	0.655	0.588	0.533	0.488	0.450	0.417	0.388	0.363	0.341	0.322	30.0
55.1-57.0	63.7- 65.9	4.305	2.522	1.776	1.363	1.101	0.921	0.790	0.691	0.613	0.551	0.500	0.457	0.421	0.390	0.363	0.340	0.319	0.301	30.3
57.1-59.0	66.0- 68.3	4.004	2.355	1.663	1.277	1.033	0.864	0.741	0.648	0.575	0.517	0.469	0.429	0.395	0.366	0.341	0.319	0.300	0.283	30.6
59.1-61.0	68.4- 70.7	3.731	2.204	1.560	1.200	0.971	0.813	0.698	0.610	0.542	0.487	0.441	0.404	0.372	0.345	0.321	0.300	0.282	0.266	30.9
61.1-63.0	70.8- 73.1	3.483	2.067	1.467	1.130	0.915	0.766	0.658	0.576	0.511	0.459	0.416	0.381	0.351	0.325	0.303	0.283	0.266	0.251	31.1
63.1-65.0	73.2- 75.5	3.257	1.941	1.381	1.066	0.864	0.724	0.622	0.544	0.483	0.434	0.394	0.360	0.332	0.307	0.286	0.268	0.251	0.237	31.3
65.1-67.0	75.6- 77.9	3.050	1.826	1.303	1.007	0.817	0.685	0.589	0.515	0.457	0.411	0.373	0.341	0.314	0.291	0.271	0.254	0.238	0.225	31.5
67.1-69.0	78.0- 80.3	2.861	1.721	1.232	0.954	0.774	0.650	0.558	0.489	0.434	0.390	0.354	0.324	0.298	0.276	0.257	0.241	0.226	0.213	31.6
69.1-71.0	80.4- 82.7	2.686	1.624	1.166	0.904	0.735	0.617	0.531	0.464	0.413	0.371	0.336	0.308	0.283	0.263	0.245	0.229	0.215	0.203	31.8
71.1-73.0	82.8- 85.1	2.525	1.535	1.105	0.859	0.699	0.587	0.505	0.442	0.393	0.353	0.320	0.293	0.270	0.250	0.233	0.218	0.205	0.193	31.9
73.1-75.0	85.2- 87.5	2.377	1.452	1.049	0.816	0.665	0.559	0.481	0.421	0.374	0.337	0.305	0.279	0.257	0.238	0.222	0.208	0.195	0.184	32.1
75.1-77.0	87.6- 89.9	2.239	1.375	0.997	0.777	0.634	0.533	0.459	0.402	0.358	0.321	0.292	0.267	0.246	0.228	0.212	0.198	0.186	0.176	32.2
77.1-79.0	90.0- 92.3	2.112	1.304	0.948	0.741	0.605	0.509	0.439	0.385	0.342	0.307	0.279	0.255	0.235	0.218	0.203	0.190	0.178	0.168	32.3
79.1-81.0	92.5- 94.8	1.994	1.237	0.903	0.707	0.578	0.487	0.420	0.368	0.327	0.294	0.267	0.244	0.225	0.209	0.194	0.182	0.171	0.161	32.4

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)