

PRACTICE APPLICATION

The treatment values shown in the report were tested for conditions concerning application. This included, for the Coast, ease of application (low or high treatment cost), hauling distance (low or high hauling cost), and degree of logging difficulty based on slope and terrain (low or high logging cost). For the Interior, this included only ease of application and hauling distance. General conclusions by region and species for the positive investment situations previously discussed are as follows:

COAST DOUGLAS FIR

- . Brushing and weeding both good and medium sites was feasible for all conditions.
- . Conifer release for both good and medium sites was feasible for all conditions except one extreme¹.
- . Spacing and spacing and fertilizing natural stands was feasible for all conditions.

COAST HEMLOCK/BALSAM

- . Conifer release for both good and medium sites was feasible for all conditions except one extreme.

1. The non-feasible situation would be denoted by a negative number in the appropriate table in the report.

COAST HEMLOCK

- . Brushing and weeding both good and medium sites was feasible for all conditions except two extremes.
- . Conifer release for both good and medium sites was feasible for all conditions except one extreme.

INTERIOR WHITE SPRUCE

- . Brushing and weeding both good and medium sites was feasible where significant losses are expected; where light losses are expected treatment is sensitive to higher cost situations particularly on medium site.
- . Conifer release for both good and medium sites was feasible where significant losses are expected; where light losses are expected treatment is sensitive to higher cost situations particularly on medium site.

INTERIOR LODGEPOLE PINE

- . Conifer release on good site was feasible for all conditions; on medium site only where significant losses are expected.

INTERIOR WET BELT DOUGLAS FIR

- . Conifer release was feasible on good site except for one extreme and generally not feasible on medium site.
- . Spacing and spacing and fertilizing are generally not feasible on good site, but are feasible on medium site under low to average cost conditions.

REFERENCES

APPENDIX 1

SECOND GROWTH OPERATIONAL YIELD TABLES

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COASTAL DOUGLAS FIR
OPERATIONAL YIELD TABLES

Natural stand established at 2800 stems/hectare
No treatment
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	9	17.5	41	20	-	-	-
30	188	20.8	607	30	44	18.8	65
40	393	25.4	1030	40	200	24.2	600
50	593	31.4	839	50	310	26.7	619
60	722	37.9	642	60	417	30.3	627
70	837	43.2	528	70	507	33.2	617
80	914	47.3	442	80	590	35.6	614
90	989	50.3	400	90	639	37.5	586
100	1049	52.6	373	100	682	39.0	567

Natural stand established at 2800 stems/hectare
Spaced to 500 stems (good at 15 yrs; medium at 20 years)
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	39	20.5	111	20	-	-	-
30	243	26.5	500	30	141	22.1	386
40	436	33.4	500	40	261	28.6	465
50	649	39.6	465	50	367	32.4	485
60	845	42.8	456	60	471	34.7	483
70	1054	49.0	373	70	582	37.9	454
80	1176	53.8	324	80	686	40.8	424
90	1309	57.6	290	90	753	42.8	410
100	1385	60.2	282	100	815	45.4	382

COASTAL DOUGLAS FIR
OPERATIONAL YIELD TABLES

Natural stand established at 2800 stems/hectare
Spaced and fertilized
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	40	20.5	115	20	-	-	-
30	262	27.2	486	30	148	23.4	394
40	455	34.0	486	40	287	29.5	463
50	668	40.2	457	50	393	33.0	485
60	864	43.7	442	60	497	35.3	483
70	1073	49.7	367	70	608	39.0	441
80	1195	54.3	321	80	712	41.8	414
90	1328	58.0	287	90	779	43.8	395
100	1405	60.7	279	100	841	50.5	373

COASTAL DOUGLAS FIR
OPERATIONAL YIELD TABLES

Plantation established at 1100 stems per hectare
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	31	19.7	93	20	-	-	-
30	229	25.0	528	30	116	21.2	302
40	425	31.3	638	40	245	27.4	500
50	634	37.5	563	50	352	30.9	520
60	813	41.5	505	60	457	33.6	521
70	997	47.5	413	70	562	36.7	497
80	1108	52.1	355	80	661	39.4	474
90	1226	55.6	319	90	723	41.4	456
100	1298	58.2	302	100	780	43.7	430

Plantation established at 1100 stems per hectare
Spaced to 500 stems and fertilized: Good at 15; Medium at 20 yrs
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	36	20.5	114	20	-	-	-
30	241	27.3	490	30	143	22.4	398
40	425	34.4	490	40	265	29.7	465
50	621	40.7	451	50	367	33.1	484
60	784	44.4	435	60	466	35.7	477
70	963	51.1	357	70	568	39.5	435
80	1065	56.0	311	80	665	42.3	409
90	1194	59.9	280	90	725	44.4	389
100	1266	62.5	272	100	778	47.2	367

COASTAL HEMLOCK/BALSAM
OPERATIONAL YIELD TABLES

Natural stand established at 3100 stems/ha (50-50 mix)
No treatment
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE

TOTAL AGE	VOL (H) m3/ha	VOL (B) m3/ha	TOTAL VOL m3/ha	DBH(H) (cm)	DBH(B) (cm)	STEM NO(H) per ha	STEM NO(B) per ha	TOTAL STEMS per ha
20	2	-	2	17.5	-	33	-	33
30	110	-	110	20.6	-	279	-	279
40	213	159	372	28.7	22.5	395	333	728
50	322	240	562	34.3	29.6	386	313	699
60	419	289	708	39.1	35.7	365	205	570
70	500	327	827	43.1	41.2	340	154	494
80	569	362	931	46.3	45.1	309	137	446
90	626	371	997	49.0	48.8	286	125	411
100	676	379	1055	51.1	53.2	270	114	384

MEDIUM SITE

TOTAL AGE	VOL (H) m3/ha	VOL (B) m3/ha	TOTAL VOL m3/ha	DBH(H) (cm)	DBH(B) (cm)	STEM NO(H) per ha	STEM NO(B) per ha	TOTAL STEMS per ha
20	-	-	-	-	-	-	-	-
30	14	-	14	17.5	-	52	-	52
40	183	-	183	21.6	-	471	-	471
50	269	56	325	26.7	23.0	429	203	632
60	310	154	464	30.6	27.9	387	217	604
70	384	185	569	33.9	32.4	392	178	570
80	451	245	696	36.8	35.8	379	168	547
90	478	270	748	38.3	38.1	365	159	524
100	501	293	794	39.5	41.1	356	151	507

COASTAL HEMLOCK/BALSAM
OPERATIONAL YIELD TABLES

Natural stand established at 3100 stems/hectare
Spaced to 650 stems/ha* (Good at 15; Medium at 20 yrs)
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE

TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	27	18.4	114
30	156	23.7	417
40	366	29.3	494
50	519	33.7	497
60	662	38.7	483
70	815	42.8	458
80	933	46.1	400
90	1018	50.6	353
100	1087	52.2	312

MEDIUM SITE

TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-
30	37	19.1	320
40	283	25.4	480
50	358	30.9	501
60	439	33.3	504
70	526	35.1	504
80	648	37.6	489
90	713	40.3	456
100	770	43.6	409

* The usual procedure is to favour hemlock

COASTAL HEMLOCK
OPERATIONAL YIELD TABLES

Natural stand established at 3100 stems/hectare
No treatment
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	4	17.5	38	20	-	-	-
30	152	21.6	320	30	14	18.2	50
40	317	27.2	595	40	193	20.5	496
50	480	32.5	571	50	294	25.3	516
60	622	37.1	539	60	433	29.0	571
70	739	41.0	500	70	538	32.3	577
80	833	44.2	475	80	661	35.1	583
90	893	46.8	446	90	712	36.6	569
100	947	48.8	427	100	758	37.7	564

Natural stand established at 3100 stems/hectare
Spaced to 500 stems (good at 15 yrs; medium at 20 years)
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	28	18.5	119	20	-	-	-
30	157	23.8	424	30	38	19.2	336
40	368	29.4	488	40	287	25.7	479
50	522	33.8	493	50	362	31.3	500
60	665	38.8	480	60	440	33.6	500
70	820	42.9	456	70	526	35.3	500
80	939	46.2	396	80	648	37.8	483
90	1025	49.3	347	90	713	40.5	449
100	1092	52.4	305	100	771	44.0	400

COASTAL HEMLOCK
OPERATIONAL YIELD TABLES

Plantation established at 1100 stems per hectare
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	22	18.3	100	20	-	-	-
30	156	23.3	400	30	33	19.0	270
40	356	28.9	513	40	265	24.5	483
50	512	33.5	511	50	346	29.9	504
60	655	38.4	494	60	438	32.5	516
70	801	42.5	466	70	529	34.6	518
80	915	45.7	414	80	651	37.2	506
90	995	48.7	370	90	713	39.6	477
100	1059	51.6	333	100	768	42.5	438

INTERIOR WHITE SPRUCE
OPERATIONAL YIELD TABLES

Natural stand established at 2500 stems per hectare
No treatment
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-	20	-	-	-
30	8	18.0	80	30	-	-	-
40	72	21.1	512	40	28	19.0	216
50	168	22.3	860	50	88	21.3	560
60	304	23.5	968	60	160	22.3	800
70	400	24.8	1040	70	248	23.0	920
80	504	26.5	992	80	336	24.0	1024
90	608	28.2	952	90	416	25.0	1040
100	688	30.6	848	100	484	26.0	1004
110	768	33.2	752	110	560	27.0	968
120	848	35.7	656	120	624	28.0	920

INTERIOR WHITE SPRUCE
OPERATIONAL YIELD TABLES

Plantation established at 1110 stems per hectare
No treatment
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-	20	-	-	-
30	2	17.5	24	30	-	-	-
40	81	22.0	522	40	27	19.5	270
50	198	25.3	747	50	99	22.5	558
60	324	28.2	765	60	189	25.2	729
70	459	30.5	806	70	288	27.3	765
80	585	32.5	774	80	378	29.3	774
90	720	34.5	774	90	468	30.7	783
100	846	36.5	770	100	558	32.2	779
110	972	38.7	751	110	648	33.5	774
120	1098	41.0	742	120	738	34.7	769

Plantation established at 1110 stems per hectare
Natural stand established at 2500 stems per hectare
Spaced to 500 stems/ha (Good at 20; Medium at 25 yrs)
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-	20	-	-	-
30	1	17.8	11	30	-	-	-
40	28	22.8	131	40	5	20.0	23
50	63	26.3	305	50	33	23.3	159
60	150	29.6	342	60	70	26.0	290
70	234	33.3	361	70	131	28.5	328
80	318	37.0	346	80	187	31.0	356
90	412	41.0	337	90	257	33.5	361
100	496	44.0	323	100	328	36.3	352
110	590	47.3	309	110	393	38.8	346
120	674	50.5	300	120	459	41.5	337

INTERIOR LODGEPOLE PINE
OPERATIONAL YIELD TABLES

Natural stand established at 8260 stems per hectare
Spaced to 1600 stems/ha (Good at 18; Medium at 21 yrs)
All statistics for stems > 12.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-	20	-	-	-
30	68	15.8	871	30	4	14.5	51
40	170	18.4	1114	40	81	16.0	893
50	289	21.3	1071	50	145	17.6	1071
60	408	24.0	1020	60	208	19.3	1097
70	510	26.0	978	70	272	20.8	1071
80	621	28.0	935	80	340	22.4	1046
90	723	30.0	884	90	391	23.6	999
100	782	31.9	808	100	434	24.5	956
110	842	33.6	740	110	480	25.4	893
120	867	35.1	701	120	527	26.3	846

Natural stand established at 8260 stems per hectare
No treatment
All statistics for stems > 12.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-	20	-	-	-
30	51	15.5	829	30	4	14.5	170
40	179	16.0	1806	40	68	15.3	893
50	315	17.8	1734	50	140	15.8	1573
60	425	20.0	1573	60	217	16.5	1785
70	502	22.8	1339	70	293	17.5	1743
80	570	25.0	1105	80	370	18.5	1700
90	638	27.7	884	90	417	19.5	1615
100	714	29.5	808	100	451	20.5	1466
110	774	31.3	745	110	476	21.6	1318
120	816	32.7	701	120	510	23.7	1190

INTERIOR LODGEPOLE PINE
OPERATIONAL YIELD TABLES

Plantation established at 1600 stems per hectare
No treatment
All statistics for stems > 12.5 cm D.B.H.

GOOD SITE

TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-
30	81	16.5	1013
40	198	20.3	1125
50	324	23.5	1080
60	450	26.3	1044
70	594	28.5	1013
80	729	30.8	990
90	846	33.0	923
100	918	35.1	855
110	981	37.1	774
120	1017	38.5	729

MEDIUM SITE

TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-
30	18	14.5	986
40	90	16.8	1044
50	162	19.2	1116
60	234	21.2	1116
70	306	23.0	1089
80	374	24.7	1058
90	432	26.0	1035
100	491	26.8	999
110	529	27.7	968
120	603	28.7	927

INTERIOR DOUGLAS FIR (WET BELT)
OPERATIONAL YIELD TABLES

Natural stand established at 2800 stems/hectare
No treatment
All statistics for stems > 17.5 cm D.B.H.

GOOD SITE				MEDIUM SITE			
TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha	TOTAL AGE	VOL m3/ha	DBH (cm)	STEMS per ha
20	-	-	-	20	-	-	-
30	-	-	-	30	-	-	-
40	123	23.7	428	40	-	-	-
50	197	24.8	531	50	34	18.5	5
60	295	27.3	621	60	90	19.2	243
70	375	29.2	653	70	145	20.0	481
80	460	30.9	683	80	192	20.7	718
90	499	32.4	660	90	226	21.7	768
100	535	33.6	645	100	260	22.7	818
110	571	34.6	637	110	289	23.6	867
120	600	35.4	631	120	299	24.6	917