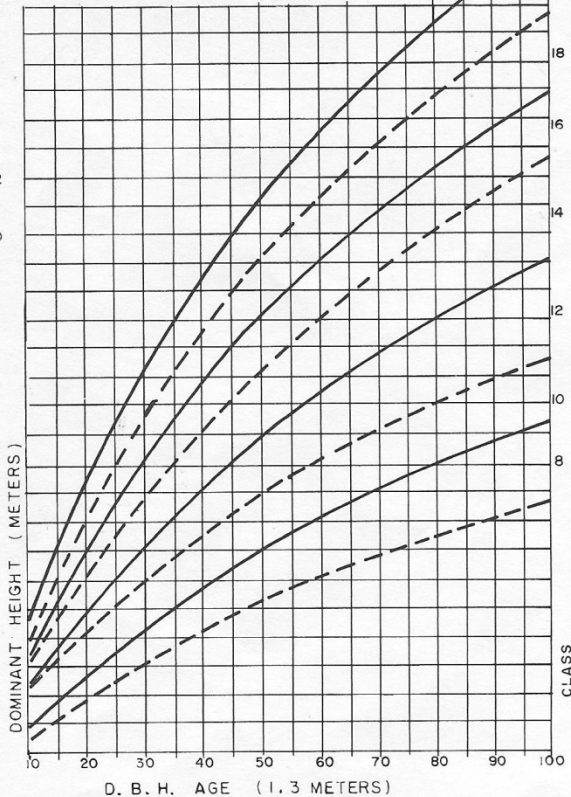


SITE INDEX

FOR BLACK SPRUCE, WHITE SPRUCE, RED SPRUCE
AND BALSAM FIR

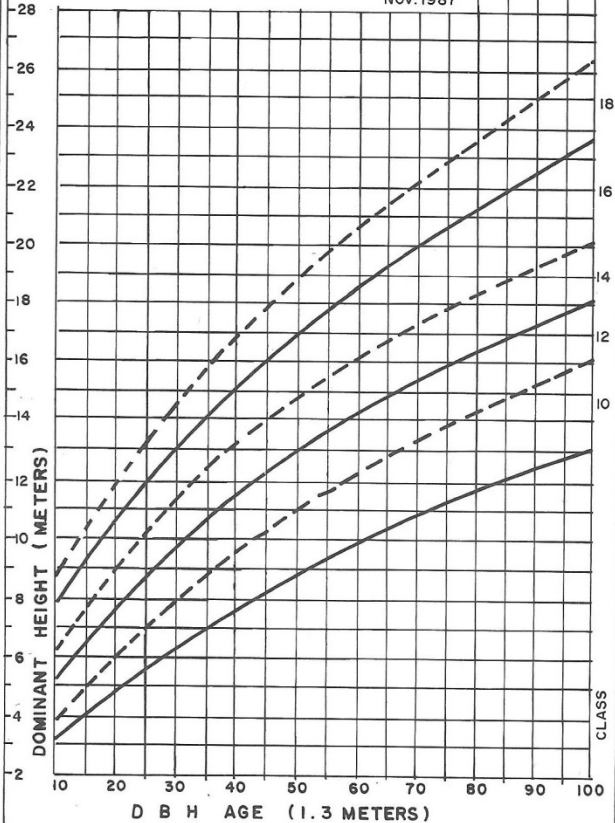
MARCH 1990



32 SITE INDEX

FOR SUGAR MAPLE, RED MAPLE, YELLOW BIRCH AND WHITE BIRCH

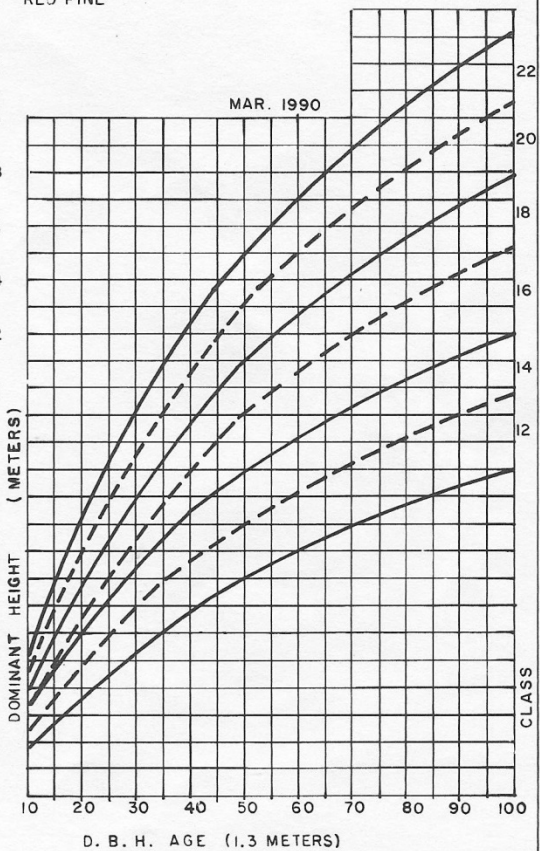
NOV. 1987



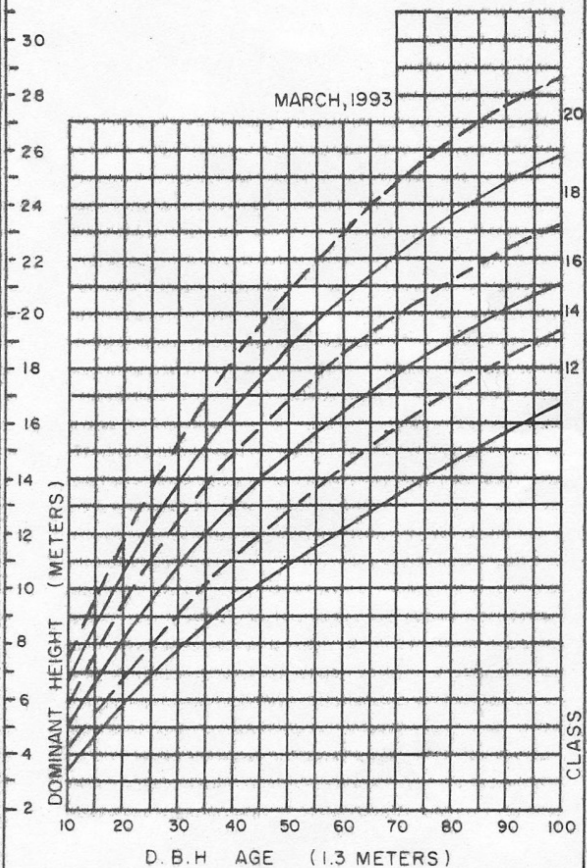
SITE INDEX

FOR EASTERN LARCH AND
RED PINE

MAR. 1990



SITE INDEX
FOR WHITE PINE



NUMBER STEMS/HA FROM PLOT TALLIES

PLOT TALLY

PLOT SIZE

NUMBER STEMS/HA	1/25 HA (11.3 M RADIUS)	1/50 HA (8.0 M)	1/100 HA (5.64 M)	1/250 HA (3.57 M)	1/500 HA (2.52 M)	1/100 ACRE (3.59 M)
500	20	10	5	2	1	2
1,000	40	20	10	4	2	4
1,500	60	30	15	6	3	6
2,000	80	40	20	8	4	8
2,500	100	50	25	10	5	10
3,000	120	60	30	12	6	12
3,500	140	70	35	14	7	14
4,000	160	80	40	16	8	16
4,500	180	90	45	18	9	18
5,000	200	100	50	20	10	20
5,500	220	110	55	22	11	22
6,000	240	120	60	24	12	24
6,500	260	130	65	26	13	26
7,000	280	140	70	28	14	28
7,500	300	150	75	30	15	30
8,000	320	160	80	32	16	32
8,500	340	170	85	34	17	34
9,000	360	180	90	36	18	36
9,500	380	190	95	38	19	38
10,000	400	200	100	40	20	40

NUMBER OF TREES PER HECTARE

SPACING METRES	SPACING 1 METRE									
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	10000.	8264.	6944.	5917.	5102.	4444.	3906.	3460.	3086.	2770.
2	2500.	2268.	2066.	1890.	1736.	1600.	1479.	1372.	1276.	1189.
3	1111.	1041.	977.	918.	865.	816.	772.	730.	693.	657.
4	625.	595.	567.	541.	517.	494.	473.	453.	434.	416.
5	400.	384.	370.	356.	343.	331.	319.	308.	297.	287.
6	278.	269.	260.	252.	244.	237.	230.	223.	216.	210.
7	204.	198.	193.	188.	183.	178.	173.	169.	164.	160.
8	156.	152.	149.	145.	142.	138.	135.	132.	129.	126.

AVERAGE STAND DIAMETER

STEMS PER HECTARE	BASAL AREA IN M2/HA														
	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60
500	10	14	17	20	23	25	27	29	30	32	33	35	36	38	39
1000	7	10	12	14	16	17	19	20	21	23	24	25	26	27	28
1500	6	8	10	12	13	14	15	16	17	18	19	20	21	22	23
2000	5	7	9	10	11	12	13	14	15	16	17	17	18	19	20
2500	5	6	8	9	10	11	12	13	14	14	15	16	16	17	17
3000	4	6	7	8	9	10	11	12	12	13	14	14	15	15	16
3500	4	5	7	8	9	9	10	11	11	12	13	13	14	14	15
4000	4	5	6	7	8	9	9	10	11	11	12	12	13	13	14
4500	3	5	6	7	8	8	9	10	10	11	11	12	12	13	13
5000	3	5	6	6	7	8	8	9	10	10	11	11	12	12	12
5500	3	4	5	6	7	7	8	9	9	10	10	11	11	11	12
6000	3	4	5	6	7	7	8	8	9	9	10	10	11	11	11
6500	3	4	5	6	6	7	7	8	8	9	9	10	10	10	11
7000	3	4	5	5	6	7	7	8	8	9	9	9	10	10	10
7500	3	4	5	5	6	6	7	7	8	8	9	9	9	10	10
8000	3	4	4	5	6	6	7	7	8	8	8	9	9	9	10
8500	2	3	4	5	5	6	6	7	7	8	8	8	9	9	9
9000	2	3	4	5	5	6	6	7	7	8	8	8	9	9	9
9500	2	3	4	5	5	6	6	7	7	7	8	8	8	9	9
10000	2	3	4	5	5	6	6	6	7	7	7	8	8	8	9

* AVERAGE STAND DIAMETERS ARE IN CENTIMETRES.

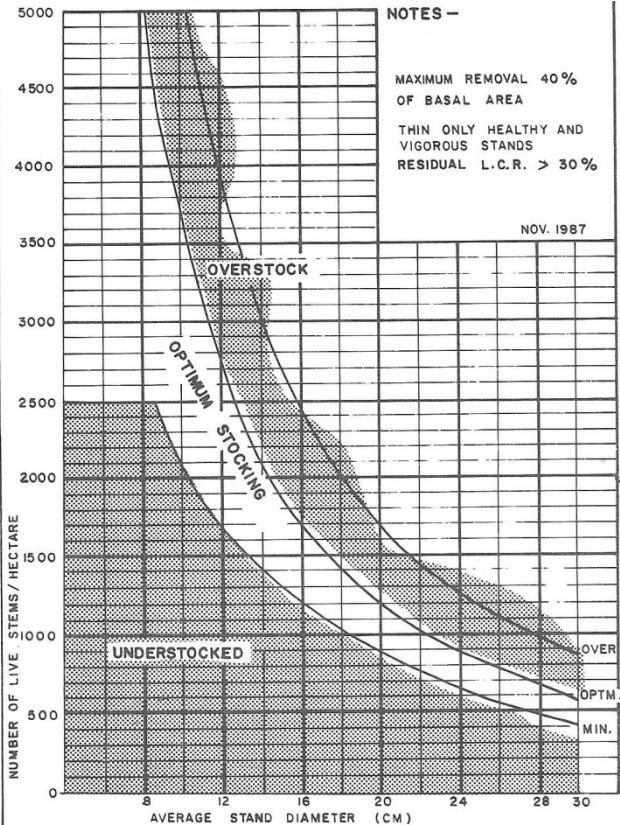
SOFTWOOD STOCKING GUIDE

RED SPRUCE, WHITE SPRUCE, BLACK SPRUCE AND BALSAM FIR

NOTES -

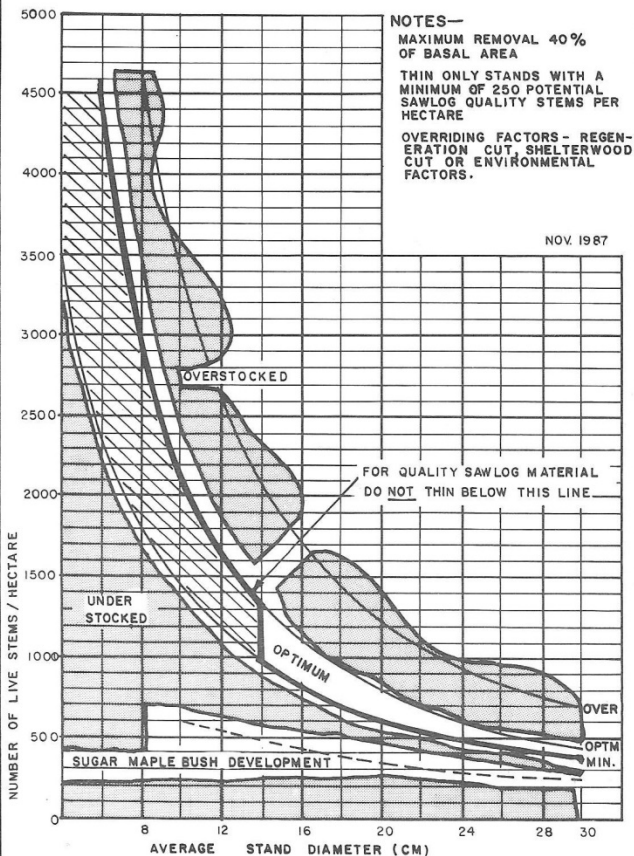
- MAXIMUM REMOVAL 40% OF BASAL AREA
- THIN ONLY HEALTHY AND VIGOROUS STANDS
- RESIDUAL L.C.R. > 30%

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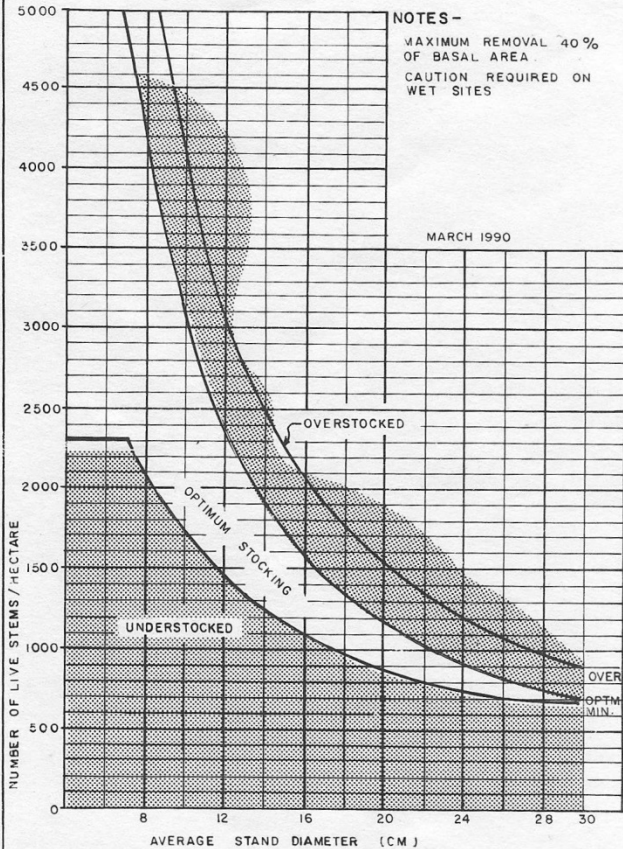


HARDWOOD STOCKING GUIDE

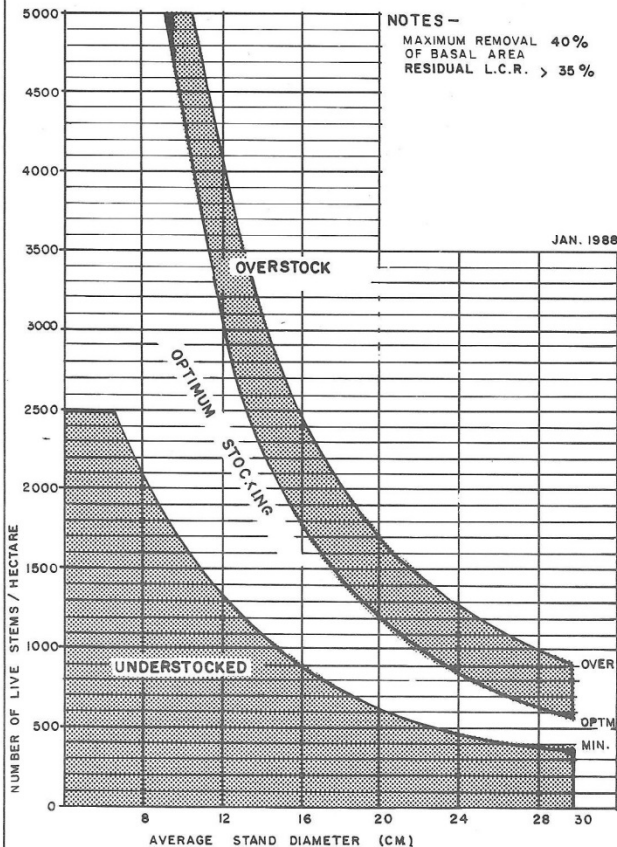
YELLOW BIRCH, WHITE BIRCH, SUGAR MAPLE AND RED MAPLE



LARCH STOCKING GUIDE



RED PINE STOCKING GUIDE



Nov. 1987

MERCHANTABLE STAND VOLUME TABLE

SOFTWOOD

AVERAGE
MERCHANTABLE
BASAL
AREA

AVERAGE MERCHANTABLE STAND DIAMETER
(CENTIMETRES)

M ² /HA	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
4	9	12	15	17	20	21	23	24	26	27	28	29	30	31	32	33
8	18	25	30	35	39	43	46	49	52	54	57	59	61	62	64	66
12	27	37	46	52	59	64	69	73	78	81	85	88	91	94	96	98
16	36	50	61	70	78	85	92	98	103	108	113	117	121	125	128	131
20	45	62	76	87	98	107	115	122	129	135	141	147	152	156	160	164
24	54	75	91	105	117	128	138	147	155	163	170	176	182	187	192	197
28	64	87	106	122	137	149	161	171	181	190	198	205	212	218	224	230
32	73	100	122	140	156	171	184	196	207	217	226	235	242	250	256	262
36	82	112	137	157	176	192	207	220	233	244	254	264	273	281	288	295
40	91	125	152	175	195	213	230	245	258	271	283	293	303	312	320	328
44	100	137	167	192	215	235	253	269	284	298	311	323	333	343	352	361
48	109	150	182	210	234	256	276	294	310	325	339	352	364	375	385	394

*MERCHANTABLE STAND VOLUMES ARE IN CUBIC METRES PER HECTARE.

*TOP DIAMETER IS 8 CM.

*2.4 m³ = 1 cord

Nov. 1987

MERCHANTABLE STAND VOLUME TABLE

HARDWOOD

AVERAGE MERCHANTABLE BASAL AREA M2/HA	AVERAGE MERCHANTABLE STAND DIAMETER (CENTIMETRES)															
	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
4	19	21	23	25	26	28	29	30	31	31	32	33	33	34	34	35
8	39	43	47	50	53	55	57	59	61	63	64	66	67	68	69	70
12	58	64	70	75	79	83	86	89	92	94	96	98	100	102	103	105
16	78	86	93	99	105	110	115	119	122	126	129	131	134	136	138	140
20	97	107	116	124	131	138	143	148	153	157	161	164	167	170	172	175
24	116	129	140	149	158	165	172	178	183	188	193	197	200	204	207	209
28	136	150	163	174	184	193	201	208	214	220	225	230	234	238	241	244
32	155	172	186	199	210	220	229	237	245	251	257	262	267	272	276	279
36	175	193	209	224	236	248	258	267	275	283	289	295	301	306	310	314
40	194	215	233	249	263	275	287	297	306	314	321	328	334	340	345	349
44	214	236	256	273	289	303	315	326	336	345	353	361	367	373	379	384
48	233	258	279	298	315	330	344	356	367	377	386	394	401	407	413	419

*MERCHANTABLE STAND VOLUMES ARE IN CUBIC METRES PER HECTARE.

*TOP DIAMETER IS 8 CM.

$$*2.4 \text{ m}^3 = 1 \text{ cord}$$

Nov. 1987

TOTAL STAND BIOMASS TABLE

SOFTWOOD

AVERAGE BASAL AREA M ² /HA	AVERAGE STAND DIAMETER (CENTIMETRES)												
	6	8	10	12	14	16	18	20	22	24	26	28	30
4	9	10	10	11	11	12	12	13	13	13	14	14	14
8	18	20	21	22	23	24	25	25	26	27	28	28	29
12	27	29	31	33	34	36	37	38	39	40	41	42	43
16	36	39	42	44	46	48	49	51	52	54	55	56	57
20	45	49	52	55	57	60	62	64	66	67	69	70	72
24	54	59	63	66	69	72	74	76	79	81	83	84	86
28	63	68	73	77	80	84	87	89	92	94	96	98	100
32	72	78	83	88	92	96	99	102	105	108	110	112	115
36	81	88	94	99	103	107	111	115	118	121	124	126	129
40	90	98	104	110	115	119	124	127	131	134	138	141	143
44	99	107	115	121	126	131	136	140	144	148	151	155	158
48	108	117	125	132	138	143	148	153	157	161	165	169	172
52	117	127	135	143	149	155	161	166	170	175	179	183	186
56	126	137	146	154	161	167	173	178	183	188	193	197	201
60	135	146	156	165	172	179	185	191	197	202	206	211	215

*TOTAL STAND BIOMASS IS IN OVEN DRIED TONNES PER HECTARE.

*1 ODT approx. = 2 green tonnes

Nov. 1987

TOTAL STAND BIOMASS TABLE

POPLAR

AVERAGE BASAL AREA M2/HA	AVERAGE STAND DIAMETER (CENTIMETRES)												
	6	8	10	12	14	16	18	20	22	24	26	28	30
4	9	10	11	12	13	14	15	16	17	17	18	19	19
8	18	20	23	25	27	28	30	32	33	35	36	37	39
12	27	31	34	37	40	43	45	48	50	52	54	56	58
16	35	41	45	50	53	57	60	63	66	69	72	75	77
20	44	51	57	62	67	71	75	79	83	87	90	93	96
24	53	61	68	74	80	85	90	95	100	104	108	112	116
28	62	71	79	87	93	100	106	111	116	121	126	131	135
32	71	82	91	99	107	114	121	127	133	139	144	149	154
36	80	92	102	112	120	128	136	143	149	156	162	168	174
40	89	102	114	124	134	142	151	159	166	173	180	187	193
44	98	112	125	136	147	157	166	175	183	191	198	205	212
48	106	122	136	149	160	171	181	190	199	208	216	224	232
52	115	133	148	161	174	185	196	206	216	225	234	243	251
56	124	143	159	174	187	199	211	222	233	243	252	261	270
60	133	153	170	186	200	214	226	238	249	260	270	280	289

*TOTAL STAND BIOMASS IS IN OVEN DRIED TONNES PER HECTARE.

*1 ODT approx. = 2 green tonnes

Nov 1987

INCREASING RISK OF INJURY (General for Herbicides)

BLACK _____ BALSAM _____ RED _____ WHITE _____ WHITE _____ JACK
SPRUCE _____ FIR _____ PINE _____ SPRUCE _____ PINE _____ PINE

DECREASING TIME AFTER PLANTING _____

HIGHER RATES OF HERBICIDE APPLICATION _____

ESTABLISHED _____ BARE _____ BARE _____ LARGE _____ SMALL _____
NATURAL _____ ROOT _____ ROOT _____ CONTAINERS _____ CONTAINERS
REGENERATION TRANSPLANTS SEEDLINGS

SPRAY IN THE MORNING RATHER THEN THE EVENING

RELATIVE HERBICIDE EFFECTIVENESS KEY

PRODUCT	RATE		TARGET SPECIES									
	KGAI/HA	L product /HA	Grasses	Sedges	Broadleaf Weeds	Maples	Birches	Aspen	Alder	Pincherry	Raspberry	
Vision (Glyphosate)	1.42	4.0	80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	
	1.60	4.5	80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	
	1.78	5.0	80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	
	1.96	5.5	80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	
	2.14	6.0	80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	
Simazine	4.50		60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	0-20%	
	5.50		80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	
	6.50		80%	60-80%	40-60%	20-40%	0-20%	0-20%	0-20%	0-20%	0-20%	

Active ingredient (AI) for simazine products:

- Princept Nine - T (900g/kg)
- Simadex 80 W (800g/kg)
- Simadex F (500g/L)

Efficacy of rates depends on following conditions:

- Height of vegetation | (total biomass)
- Density of vegetation |
- Condition of foliage (insect/disease, dust, frost, etc.)
- Time of year (site prep. vs. maintenance)
- Type of application (ground, aerial, etc.)
- Soil type (Simazine)
- Simazine - Selective herbicide - residual effect. Spray before 3 cm. of growth in the spring or before freeze up in fall after natural browning has occurred.
- Vision - Non-selective herbicide - no residual effect (Foliage uptake) - applied on actively growing weeds or brush.
- Site prep. - June 1 - Sept. 30th.
- Plantation Maintenance - (1) Spruce/fir - Aug. 15 - Sept. 30th
(2) Pines - Sept. 1 - Sept. 30th



Nov. 1987

WHITE SPRUCE PLANTATION
At Time of First Thinning
Average Stand Diameter and Breast Height Age
(First Approximation Dec. 1986)

Stems per ha.	Average Diameter (cm)	Site Index			20
		14	16 (Breast Height Age)	18	
1000	22.5	64	55	40	29
1200	20.1	52	47	33	24
1400	18.3	45	41	29	21
1600	16.9	39	36	26	19
1800	15.7	35	33	23	17
2000	14.7	32	30	21	16
2200	13.9	30	27	20	15
2400	13.1	28	26	18	14
2600	12.5	26	24	17	13
2800	12.0	24	23	16	12
3000	11.5	23	21	15	12
3200	11.0	22	20	15	11
3400	10.6	21	19	14	11
3600	10.2	20	18	13	10
3800	9.9	19	18	13	10
4000	9.6	18	17	12	9

Nov. 1987

BLACK SPRUCE PLANTATION
At Time of First Thinning
Average Stand Diameter and Breast Height Age
(First Approximation Dec. 1986)

Stems per ha.	Average Diameter (cm)	Site Index		
		12	14 (Breast Height Age)	16
1000	22.5	128	109	65
1200	20.1	87	70	54
1400	18.3	71	56	46
1600	16.9	61	47	41
1800	15.7	54	42	37
2000	14.7	49	37	34
2200	13.9	45	34	32
2400	13.1	41	31	30
2600	12.5	39	29	28
2800	12.0	36	27	26
3000	11.5	34	26	25
3200	11.0	32	24	24
3400	10.6	31	23	23
3600	10.2	29	22	22
3800	9.9	28	21	21
4000	9.6	27	20	20

Nov. 1987

LARCH PLANTATION
At Time of First Thinning
Average Stand Diameter and Breast Height Age
(First Approximation Dec. 1986)

Stems per ha.	Average Diameter (cm)	Site Index					
		14	16	18	20	22	24
		(Breast Height Age)					
1000	22.1	60	57	54	46	36	27
1200	19.5	50	47	44	36	28	23
1400	17.5	44	41	38	30	24	20
1600	15.9	39	36	34	26	21	18
1800	14.6	35	33	30	24	19	16
2000	13.6	32	30	28	21	17	15
2200	12.7	30	28	26	20	16	14
2400	12.0	28	26	24	18	14	13
2600	11.3	26	25	23	17	14	12
2800	10.7	25	23	21	16	13	12
3000	10.2	23	22	20	15	12	11
3200	9.8	22	21	19	14	12	11
3400	9.4	21	20	19	14	11	10
3600	9.0	20	19	18	13	11	10
3800	8.7	19	18	17	13	10	9
4000	8.4	19	18	16	12	10	9

AVERAGE STAND DIAMETER

STEMS PER HECTARE	BASAL AREA IN M2/HA														
	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60
500	10	14	17	20	23	25	27	29	30	32	33	35	36	38	39
1000	7	10	12	14	16	17	19	20	21	23	24	25	26	27	28
1500	6	8	10	12	13	14	15	16	17	18	19	20	21	22	23
2000	5	7	9	10	11	12	13	14	15	16	17	17	18	19	20
2500	5	6	8	9	10	11	12	13	14	14	15	16	16	17	17
3000	4	6	7	8	9	10	11	12	12	13	14	14	15	15	16
3500	4	5	7	8	9	9	10	11	11	12	13	13	14	14	15
4000	4	5	6	7	8	9	9	10	11	11	12	12	13	13	14
4500	3	5	6	7	8	8	9	10	10	11	11	12	12	13	13
5000	3	5	6	6	7	8	8	9	10	10	11	11	12	12	12
5500	3	4	5	6	7	7	8	9	9	10	10	11	11	11	12
6000	3	4	5	6	7	7	8	8	9	9	10	10	11	11	11
6500	3	4	5	6	6	7	7	8	8	9	9	10	10	10	11
7000	3	4	5	5	6	7	7	8	8	9	9	9	10	10	10
7500	3	4	5	5	6	6	7	7	8	8	9	9	9	10	10
8000	3	4	4	5	6	6	7	7	8	8	8	9	9	9	10
8500	2	3	4	5	5	6	6	7	7	8	8	8	9	9	9
9000	2	3	4	5	5	6	6	7	7	8	8	8	9	9	9
9500	2	3	4	5	5	6	6	7	7	7	8	8	8	9	9
10000	2	3	4	5	5	6	6	6	7	7	7	8	8	8	9

* AVERAGE STAND DIAMETERS ARE IN CENTIMETRES.

LIMITING DISTANCE IN METRES FOR TREES OF A GIVEN DIAMETER

BASAL AREA FACTOR 2.00

(dbh X 0.3535)

cm	0	1	2	3	4	5	6	7	8	9
09	3.182	3.217	3.252	3.288	3.323	3.358	3.394	3.429	3.464	3.500
10	3.535	3.571	3.606	3.641	3.677	3.712	3.747	3.783	3.818	3.853
11	3.889	3.924	3.959	4.030	4.065	4.136	4.171	4.242	4.277	4.307
12	4.242	4.278	4.313	4.348	4.384	4.419	4.454	4.490	4.525	4.560
13	4.506	4.631	4.666	4.702	4.737	4.772	4.808	4.843	4.879	4.914
14	4.949	4.985	5.020	5.055	5.091	5.126	5.161	5.232	5.267	5.297
15	5.303	5.338	5.373	5.409	5.444	5.480	5.515	5.550	5.586	5.621
16	5.636	5.682	5.727	5.762	5.798	5.833	5.868	5.904	5.939	5.974
17	6.010	6.045	6.081	6.116	6.151	6.187	6.222	6.257	6.293	6.328
18	6.363	6.399	6.434	6.469	6.505	6.540	6.575	6.611	6.646	6.681
19	6.717	6.752	6.788	6.823	6.858	6.894	6.929	6.964	7.000	7.035
20	7.070	7.106	7.141	7.176	7.212	7.247	7.282	7.318	7.353	7.389
21	7.422	7.459	7.495	7.530	7.565	7.601	7.636	7.671	7.707	7.742
22	7.777	7.813	7.848	7.883	7.919	7.954	7.990	8.025	8.060	8.096
23	8.131	8.166	8.202	8.237	8.308	8.378	8.343	8.414	8.449	8.484
24	8.484	8.520	8.555	8.590	8.626	8.661	8.697	8.732	8.767	8.803
25	8.838	8.873	8.909	8.944	8.979	9.015	9.050	9.085	9.121	9.156
26	9.191	9.227	9.262	9.298	9.333	9.368	9.404	9.439	9.474	9.510
27	9.545	9.580	9.616	9.651	9.686	9.722	9.757	9.792	9.828	9.863
28	9.899	9.934	9.969	10.005	10.040	10.075	10.111	10.146	10.181	10.217
29	10.252	10.287	10.323	10.358	10.393	10.429	10.464	10.499	10.535	10.570
30	10.606	10.641	10.676	10.712	10.747	10.782	10.818	10.853	10.888	10.924
31	10.959	10.994	11.030	11.065	11.100	11.136	11.171	11.207	11.242	11.277
32	11.313	11.348	11.383	11.419	11.454	11.489	11.525	11.561	11.595	11.631
33	11.666	11.701	11.737	11.772	11.807	11.843	11.878	11.914	11.949	11.984
34	12.020	12.055	12.090	12.126	12.151	12.196	12.232	12.267	12.302	12.338
35	12.373	12.408	12.444	12.479	12.515	12.550	12.585	12.621	12.656	12.691
36	12.727	12.762	12.797	12.833	12.868	12.903	12.939	12.974	13.009	13.045
37	13.080	13.115	13.151	13.186	13.222	13.257	13.292	13.328	13.363	13.398
38	13.434	13.469	13.504	13.540	13.575	13.610	13.646	13.681	13.716	13.752
39	13.878	13.823	13.858	13.893	13.929	13.964	13.999	14.035	14.070	14.105
40	14.141	14.176	14.211	14.247	14.282	14.317	14.353	14.388	14.424	14.459
41	14.494	14.530	14.565	14.600	14.636	14.671	14.706	14.742	14.777	14.812
42	14.848	14.883	14.918	14.954	14.989	15.025	15.060	15.095	15.131	15.166
43	15.201	15.237	15.272	15.307	15.343	15.378	15.413	15.449	15.484	15.519
44	15.555	15.590	15.625	15.661	15.696	15.732	15.767	15.802	15.838	15.873
45	15.908	15.944	15.979	16.014	16.050	16.085	16.120	16.156	16.191	16.226
46	16.267	16.297	16.333	16.368	16.403	16.439	16.474	16.509	16.545	16.580
47	16.615	16.651	16.686	16.721	16.757	16.792	16.827	16.863	16.898	16.934
48	16.969	17.004	17.040	17.075	17.110	17.146	17.181	17.216	17.252	17.287
49	17.322	17.358	17.393	17.428	17.464	17.499	17.534	17.570	17.605	17.641

NEW BRUNSWICK LOG RULE

Rule of Thumb	Top Diam. In.	Length (feet)										
		8	9	10	11	12	13	14	15	16	17	18
	3	3	3	3	3	4	4	5	5	6		
	4	4	5	5	6	7	7	8	9	9		
L - 2	5	6	7	8	9	10	11	12	13	14	15	16
L + 3	6	10	11	12	14	15	17	18	19	20	22	23
2L - 1	7	15	17	19	21	23	25	27	29	31	33	35
2.5 x L	8	20	23	25	28	30	33	35	38	40	43	45
3 x L	9	24	27	30	33	36	39	42	45	48	51	54
4 x L	10	32	36	40	44	48	52	56	60	64	68	72
5 x L	11	40	45	50	55	60	65	70	75	80	85	90
6 x L	12	48	54	60	66	72	78	84	90	96	102	108
7 x L	13	56	63	70	77	84	91	98	105	112	119	126
8L + 2	14	65	74	82	90	98	106	114	122	130	139	147
	15	75	84	93	102	112	121	131	140	150	159	168
	16	85	96	107	117	128	138	149	159	170	181	192
	17	99	111	124	136	149	161	174	186	198	210	223
	18	115	129	143	158	172	186	200	215	229	244	258
	19	131	147	163	180	196	212	228	245	261	278	294
	20	150	168	187	206	225	243	262	281	300	318	337
	21	164	185	206	227	247	268	288	306	327	349	370
	22	181	204	227	250	272	295	317	340	362	385	408
	23	188	223	248	272	297	317	336	356	376	411	445
	24	216	243	270	297	324	352	380	406	432	459	486
	25	238	268	298	328	358	388	419	448	477	507	537

Table . The use of woodlands by the more common birds of Prince Edward Island. A summation of information from Robie W. Tufts *The Birds of Nova Scotia* and the John Bull and John Farrand Jr.'s *The Audubon Society Field Guide to North American Birds*. Prepared by Dan McAskill, February 15, 1987.

SPECIES	FEEDING HABITAT	NESTING HABITAT
Cormorant	n/a	Colonial: trees, cliffs, islands
Great Blue Heron	n/a	Colonial: trees
Ducks & Geese		
American Black Duck	n/a	Will use cutovers, woodlands, hollow trees
Wood Duck	n/a	Large tree cavities close to fresh water
Hooded Merganser	Wooded rivers/ponds	Large tree cavities, abandoned hawk nests
Hawk		
Northern Goshawk	Woodland	Trees (will often attach humans near nest)
Sharp-Shinned Hawk	Woods & Fields	Coniferous trees (usually 15-30 feet)
Red-tailed Hawk	Woods & fields	Tall trees often birch
Bald Eagle	n/a	Tall, very large trees
Northern Harrier	Field/marsh	Ground nester, sometimes in cutovers
Osprey	n/a	20-60 feet up trees
Merlin	Fields & Woods	Usually in trees
Kestrel	Fields & woods	In tree cavities, often old flicker nests
Quails & Pheasants		
Ring-necked Pheasant	Fields & hedges	Hedgerows important
Gray Partridge	Fields & hedges	Hedgerows important
Ruffed Grouse	Woods & fields	On ground often second growth; deciduous buds in winter and drumming logs in spring are important.
Plovers & Turnstones		
Killdeer	Open areas	Ground nester; will use cutovers
American Woodcock	Wet woods & marsh	On ground in open woodlands
Willet	n/a	Possibly will use cutovers near saltwater
Herring Gull	n/a	Rarely in spruce trees
Owl		
Great Horned Owl	Woods & Fields	Trees; often in abandoned crow/hawk nests
Barred Owl	Old growth woods	Large tree cavities 15 to 40 feet above ground
Long-eared Owl	Conifer/Deciduous	Abandoned crow/hawk nests in conifer woods, sometimes on mistletoe clumps.
N. Saw-whet Owl	Woods & edge	Tree cavities, often old flicker nests
Common Nighthawk	n/a	Bare ground, often recent burn areas
Chimney Swifts	n/a	Once large, hollow trees, now often chimneys
Ruby-throated Hummingbird	Flowered areas	Trees, suspended from a horizontal branch
Belted Kingfisher	n/a	Burrows in exposed banks; trees over stream and ponds used as hunting perches.
Woodpeckers		
Northern Flicker	Ants & wood borers	Excavates a tree cavity in a dead snag
Pileated Woodpecker	Ants & Wood Insects	Excavates a tree cavity in large snag
Yellow-bellied Sapsucker	Tree sap & insects	Excavates a cavity, often in live poplar
Hairy Woodpecker	Insects	Excavates a cavity, often in live poplar
Downy Woodpecker	Insects	Excavates a cavity, often in soft wood trees
Black-backed Woodpecker	Dead Trees	Excavates a cavity. Stripped bark lying around the base of a tree is often a sign of feeding.

n/a not applicable or non forest

Flycatchers		
Eastern Kingbird	Woodland openings	Trees and bushes. often along streams
Eastern Phoebe	Open woodland near streams	n/a
Yellow-bellied Flycatcher	Alder & Willow Thickets & 2nd growth	On ground in nest of moss or rootlets
Alder flycatcher	Alder & Willow Thickets & 2nd growth	In low bushes in thickets, often in alders
Least Flycatcher	Open areas	In deciduous trees
Eastern Wood Peewee	Forest, open woods	On a horizontal limb, usually in deciduous trees
Olive-sided Flycatcher	Black Spruce & fir	Usually on a horizontal tree limb
Tree Swallows	Ponds, streams	Tree cavities, particularly in raparian zone
Crows & Jays		
Gray Jay	Conifer forests	Compact firs and spruces
Blue Jay	Forest & towns	Usually in conifers but also deciduous
Northern Raven	Woods & fields	Trees, 15-60 feet up
American Crow	Woods & Fields	Trees, preference for conifers
Titmice		
Black-capped Chickadee	Deciduous & mixed woods	Uses acosting cavity in winter Excavates a cavity in a soft snag or uses an existing cavity
Boreal Chickadee	Coniferous Woods	Natural cavities close to ground often in conifers, may also excavate in soft snag
Red-Breasted Nuthatch	Coniferous woods also deciduous	Excavates a cavity in a soft snag
Brown Creeper	Deciduous & mixed woods	On underside of bark slabs of fir & spruce
Winter Wren	Coniferous & mixed	Often in blowdown areas under roots
Gray Catbird	Thickets & brush	Low down in thickets
Thurshes & Bluebirds		
American Robin	Fields & open woods	Usually in tree crotches but many other places
Hermit Thrush	Coniferous & mixed woods, deciduous woodlands & thickets in winter	On ground or low bush in forests
Swainson's Thrush	Coniferous woods Willow thickets	Often in conifer or low shrub
Veery	Moist deciduous woodlands	In ground cover or a low shrub or tree
Golden-crowned Kinglet	Dense old conifers Decid. forest & thickets in winter	In tree between conifer twigs up to 40'
Ruby-crowned Kinglet	Dense old conifers Decid. forest & thickets in winter	In tree between conifer twigs up to 40'
White-throated Sparrow	Coniferous woods with underbrush, cutovers	Under brush in cutovers
Lincoln's Sparrow	Willow & Alders	In forest undergrowth
Swamp Sparrow	Wooded swamps Freshwater marshes	In dense shrubs
Song Sparrow	Thickets, etc.	On or near the ground

BIRD HOUSE AND NESTING
INFORMATION

SPECIES	ENTRANCE HOLE DIAMETER INCHES	INSIDE FLOOR AREA INCHES	HEIGHT OF WALL PANELS INCHES	MIN. HEIGHT ABOVE GROUND FEET	ON POLE OR TREE NEAR SHRUBS	ON POLE OR TREE IN OPEN AREA	AVERAGE TERRITORY NO. OF PAIRS PER ACRE	NO. OF EGGS IN A CLUTCH	INCUBATION PERIOD IN DAYS	AGE WHEN YOUNG LEAVE THE NEST IN DAY.
HOUSE WREN	1	2 1/2 X 2 1/2	6	6	*		1	6-8	13	12-18
CHICKADEE	1 1/4	3 1/4 X 3 1/4	8	6	*		1-2	6-8	12	16
NUTHATCH								5-9	12	18
DOWNEY WOODPECKER								4-5	12	21
TREE SWALLOW							8	4-6	14	16-20
COMMON FLICKER	2 1/2	6 X 6	15	10	*	*	2	6-8	14-16	25-28
AMERICAN KESTREL								4-5	28	24-26
WOOD DUCK	3-4	10 X 10	20	8	*	*	2	10-15	29	1-2
HOODED MERGANSER	OVAL							10-12	31	1-2
COMMON GOLDENEYE								10-12	31	1-2
PURPLE MARTIN	2	5 X 5	6	8	*	*	50	4-5	12	15-18
BARRED OWL	7 WITH ROUNDED CORNERS									

Entrance Size References:

Henderson, Carol L. 1987. Woodworking for Wildlife. Minnesota Dept. Natural Resources Nongame program.

Canadian Wildlife Service. 1977. "Nest Boxes for Birds". CWS, P.O. Box 1590, Sackville, N.B. E0A 3G0

Tufts, Robie W. 1961. The Birds of Nova Scotia. Nova Scotia Museum, Halifax, N.S.

WHAT TO FEED BIRDS IN WINTER

	SUN- FLOWER SEEDS	SMALLER SEEDS	BEEF FAT SUET	BERRIES & FRUIT	OTHER TEMPTING EDIBLES
Red-breasted Nuthatch	X				
Black-capped Chickadee	X		X		
Common Redpoll	X	X			Oatmeal
White-breasted Nuthatch	X		X		
House Sparrow	X	X			Grain, Corn
Downy Woodpecker			X		
Evening Grosbeak	X			X	
Bohemian Waxwing				X	Wheat
Blue Jay	X		X		Grain, Corn
Ring-necked Pheasant					Grain, Corn
Hungarian Partridge					Grain, Corn

Birdfeeder Hints:

1. Small birds prefer small sunflower seeds, and large birds prefer large sunflower seeds.
2. Small seed include red millet, crushed corn, and buckwheat, etc.
3. Feed raisins and chopped apple, or plant a crabapple tree in your backyard.
4. Many birds enjoy peanut hearts and other unsalted nuts.

Source: Modified from John Janzen Nature Centre, Edmonton, Alberta.

AUDIO/VISUAL CATALOGUE OF THE FORESTRY BRANCH

- Yankee Woodlot Series 1 - 10
 Around Your Woodlot 1 - 4
 Near Accidents in Forestry 020
 The Naked Truth 021
 It's No Accident 022
 Chainsaw Safety 023
 Survival First Aid 024
 A Serious Look at Chainsaw Safety 025
 Saw Points 030
 Felling - Work Technique 031
 Timber Harvesting 031A
 Limbing with the Powersaw 032
 Felling Patterns 033
 Filing Saw Chain 034
 Felling and Limbing Techniques 035
 Filing the Saw Chain 036
 Directional Felling with the Clearing Saw 040
 Clearing Young Stands 041
 General Maintenance of the Clearing Saw 042
 Band and Circular Saw Maintenance 050
 Wildfires in Quebec 051
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 The Back Rack Fire Pump 053A
 Handtools for Wildfire 053B
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 "A Day in the Forest" 126
 "May the Forest Be With You" 130
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EQUIPMENT PLANS AVAILABLE

Winches	Yankee Yarder Double Drum Yarder Tractor Winch (similar to Farmi) Capstan Winch Cable Logger
Trailers	Tipping Trailer 2 wheel Tipping Trailer Bogie Wheel ATC Trailer Power Trailer
Misc.	Bobsleigh Tractor Back Rack Skidding Cone Winching Pulley (snatch Block)

DEVELOPMENT NOTES

1. The Klapi Tuiko Fuelwood Processor.
2. Cost and Productivity Rates of Three Systems for Extracting Eight-foot wood.
3. Hauling Wood - Piggyback Style.
4. Trail System Establishment.
5. To Thin or Not To Thin.
6. Snowmobile Extraction.
7. Extracting Wood with Yankee Yarder.
8. Eightfoot Wood Extraction with Backrack.
9. Eightfoot Wood With A Farm Tractor and Grapple Loader.
10. Yellow Birch Establishment.

CONVERSION TABLES

Length

inches	x	2.54	=	cm	cm	x	.3937	=	inches
feet	x	.3048	=	m	m	x	3.281	=	feet
yards	x	.9144	=	m	m	x	1.094	=	yards
chains	x	20.117	=	m	m	x	.0497	=	chains
miles	x	1.609	=	km	km	x	.6214	=	miles

Area

sq inches	x	6.452	=	cm ²	cm ²	x	.155	=	sq inches
sq feet	x	.0929	=	m ²	m ²	x	10.764	=	sq feet
sq yards	x	.836	=	m ²	m ²	x	1.196	=	sq yards
acres	x	.4047	=	ha	ha	x	2.471	=	acres

Volume

gallon	x	4.546	=	litre	litre	x	.2197	=	gallon
cu ft.	x	.0283	=	m ³	m ³	x	35.315	=	cu ft.
cu yds.	x	.765	=	m ³	m ³	x	1.308	=	cu yds.
cords	x	3.625	=	m ³ stacked	m ³ stacked	x	.276	=	cords
cords	x	2.4	=	m ³ solid	m ³ solid	x	.417	=	cords
fbm	x	188	=	m ³	m ³	x	.0053	=	fbm

1 m³ solid = 2.33 m³ loose chips

Mass

ounces	x	28.35	=	gram	grams	x	.0353	=	ounces
pounds	x	.4536	=	kg	kg	x	2.205	=	lbs
tons	x	.907	=	tonnes	tonnes	x	1.102	=	tons

Ratio's

cords/acre	x	8.956	=	m ³ (stacked)/ha	m ³ (stacked)/ha	x	.111	=	cds/acre
cords/acre	x	5.928	=	m ³ (solid)/ha	m ³ (solid)/ha	x	.1687	=	cords/acre
tons/acre	x	2.242	=	tonnes/ha	tonnes/ha	x	.446	=	tons/acre
pounds/acre	x	1.121	=	kg/ha	kg/ha	x	.8922	=	pounds/acre
gallon/acre	x	11.233	=	litres/ha	litre/ha	x	.089	=	gallon/acre
miles/gallon	x	.354	=	km/litre	km/litre	x	2.825	=	miles/gallon
ft ² /acre	x	.2296	=	m ² /ha	m ² /ha	x	4.356	=	ft ² /acre

SPECIES CODES

Commercial Species	F Code	Code
White Spruce	55	WS
Black Spruce	51	BS
Red Spruce		RS
Norway Spruce	67	NS
Balsam Fir	54	BF
Douglas Fir	66	DF
Eastern Larch	59	LA
Japanese Larch	61	JL
European Larch	60	EL
Red Pine	53	RP
White Pine	56	WP
Austrian Pine	57	AP
Scots Pine	69	SP
Cedar	68	CE
Yellow Birch	58	YB
White Birch		WB
Gray Birch		GB
Beech		BE
Ironwood		OS
Black Walnut		BW
Butternut		BN
Poplar	52	PO
Alder		AL
Red Oak	64	RO
Elm		EM
Sugar Maple	63	SM
Red Maple		RM
White Ash	65	WA
Black Ash		BA
Jack Pine	62	JP

COMPETITION SPECIES

Name	Code
Ferns	FE
Grasses	GR
Herbaceous	HB
Alder	AL
Raspberries	RB
Vetch	VE
Goldenrod	GO
Fireweed	FI

Disc Sites 1.9 x 2.00

SCHEDULE OF RATES

1992-1993

Treatment Code	Prescription	Incentives		Contractors	Landowners
		Private	Crown	Allowance	Contribution
FOREST INFRASTRUCTURE					
01	Class 1 Road Construction	1230	1535		305
02	Fill	6.6	8.25		1.65
03E	Culvert 40 cm. Class 1 & 2	320	400		80
03F	Culvert 40 cm. Class 3	350	440		90
03G	Culvert 45 cm. Class 1 & 2	450	560		110
03H	Culvert 45 cm. Class 3	500	620		120
03I	Culvert 60 cm. Class 1 & 2	570	710		140
03J	Culvert 60 cm. Class 3	570	710		140
03K	Culvert 75 cm. Class 1 & 2	670	840		170
03L	Culvert 75 cm. Class 3	670	840		170
03W	Water Diversion Structure	87	109		22

Stream Crossings

	Size	Range (m2)				
04A	Class 1	0.00 - 1.99	9100 kg	2480	3100	620
04N	Class 1	0.00 - 1.99	2700 kg	1120	1400	280
04B	Class 2	2.00 - 2.99	9100 kg	2900	3625	725
04O	Class 2	2.00 - 2.99	2700 kg	1300	1625	325
04C	Class 3	3.00 - 3.99	9100 kg	3400	4250	850
04P	Class 3	3.00 - 3.99	2700 kg	1520	1900	380
04D	Class 4	4.00 - 4.99	9100 kg	4020	5025	1005
04Q	Class 4	4.00 - 4.99	2700 kg	1780	2225	445
04E	Class 5	5.00 - 5.99	9100 kg	4560	5700	1140
04R	Class 5	5.00 - 5.99	2700 kg	2000	2500	500
04F	Class 6	6.00 - 6.99	9100 kg	4980	6225	1245
04S	Class 6	6.00 - 6.99	2700 kg	2180	2725	545
04G	Class 7	7.00 - 7.99	9100 kg	5280	6600	1320
04T	Class 7	7.00 - 7.99	2700 kg	2320	2900	580
04H	Class 8	8.00 - 8.99	9100 kg	5500	6875	1375
04U	Class 8	8.00 - 8.99	2700 kg	2420	3025	605
04I	Class 9	9.00 - 10.00	9100 kg	5600	7000	1400
04V	Class 9	9.00 - 10.00	2700 kg	2480	3100	620

SCHEDULE OF RATES

1992-1993

Treatment Code	Prescription	Incentives		Contractors Allowance	Landowners Contribution
		Private	Crown		
05	Class 1 Non. Forest Construction	660	825		165
06	Class 2 Road Construction	725	905		180
07	Class 3 Road Construction	5685	7105		1420
09	Class 1 Joint Road	1440	1795		355
14	Boundary Line Agreement	295	370	Y	75
15	Right of Way		0		
16	Road Maintenance		0		

FOREST RENEWAL

SITE PREPARATION

18A	Residual Removal Felling	190	210	Y	20
18B	Residual Removal Felling & Removal	245	270	Y	25
20	TTS Disc Trencher	185			
22	Hydro Axe	320			
23A	Rhome Disc Single Pass	355			
23B	Rhome Disc Double Pass	460			
23C	Rhome Disc Triple Pass	510			
25A	Chemical Partial Application	245			
25B	Chemical Broadcast	290			
29	Raking Crawler Tractor	355			
30A	Manual Prep 2500 Sites	375		Y	
30B	Manual Prep Var. Den. Sq.	0.15		Y	
31	Farm Equipment	285			
32	Contour Plowing	105			
33	Drainage	320			
35	Manual Slash Pile & Burn	370		Y	
37	Raking Rubber Tired Skidder	300			
38A	Slash Pile Burn 4 ha	90			
38B	Slash Pile Burn 4 & 6 ha	75			
38C	Slash Pile Burn 6 ha	55			
39	Industrial Rotovator	380			
43A	Anchor Chain I	300			
43B	Anchor Chain II	405			
44	Marden Roller	300			
49	Contractors Rebate				

PLANTING

50A	Aquisition Plant Stock	165/thousand			
50F	Fill Plant (other)	75 + Contract			
51-70F	Fill Planting	75 + Contract			
51-70I	Interplanting	105 + Contract			
51-70B	Bareroot Planting Contract	Contract			
51-70C	Container Planting Contract	Contract			

SCHEDULE OF RATES

1992-1993

Treatment Code	Prescription	Incentives		Contractors Allowance	Landowners Contribution
		Private	Crown		
PLANTATION MAINTENANCE					
81	Mowing	280	280		
82A	Herb. Part. App. 1st Treatment	245			
82B	Herb. Broadcast 1st Treatment	290			
82C	Herb. Part. App. 2nd Treatment	220	245		
82D	Herb. Broadcast 2nd Treatment	265	290		25
86	Mulching	280	280		
Cutting Woody Stems					
88A	Class I - 1st Treatment Unpaid	160		Y	15
88B	Class II - 1st Treatment Unpaid	240		Y	25
88C	Class III - 1st Treatment Unpaid	315		Y	35
88D	Class IV - 1st Treatment Unpaid	400		Y	40
88I	Class I - 1st Treatment Paid	175	175	Y	15
88J	Class II - 1st Treatment Paid	265	265	Y	25
88K	Class III - 1st Treatment Paid	350	350	Y	35
88L	Class IV - 1st Treatment Paid	440	440	Y	40
88Q	Class I - 2nd Treatment	180	160	Y	15
88R	Class II - 2nd Treatment	240	240	Y	25
88S	Class III - 2nd Treatment	315	315	Y	35
88T	Class IV - 2nd Treatment	400	400	Y	40
89	Pruning		0	Y	
SITE RECLAMATION					
(Total incentive cannot exceed 375/ha and a minimum of 180.00)					
No Product					
	Range (m2)				
141	Class 1 6.0	90	100	Y	10
142	Class 2 6.1 - 12.0	190	210	Y	20
143	Class 3 12.1 - 20.0	230	255	Y	25
144	Class 4 20.1 - 30.0	265	295	Y	30
145	Class 5 30.1 - 40.0	290	325	Y	35
146	Class 6 40.1 +	315	350	Y	35
With Product					
151	Class 1	See Schedule of R		Y	40
152	Class 2	and Standards - M		Y	40
153	Class 3	of 415/ha on crown		Y	40
154	Class 4	375/ha on private		Y	40
155	Class 5			Y	40
156	Class 6			Y	40
Extraction					
157	40 m3	135	150	Y	15
158	41 - 80 m3/ha	100	110	Y	10
159	81 - 100 m3/ha	70	80	Y	10
Other Site Reclamation					
160	Chipping	180	200	Y	20
161	Base	0-180	0-180	Y	
162	Stumpage		-900		
165	Windthrow	37.5	41.5	Y	
166	Limbiess	90	100	Y	10

SCHEDULE OF RATES

1992-1993

Treatment		Incentives		Contractors	Landowners
<u>Code</u>	<u>Prescription</u>	<u>Private</u>	<u>Crown</u>	<u>Allowance</u>	<u>Contribution</u>
FOREST IMPROVEMENT					
Precommercial Softwood Thinning					
101	Class 1 4,000 - 10,000	385	425	Y	40
301	Class 1 Over 6 m	430	475	Y	45
102	Class 2 10,001 - 15,000	480	535	Y	55
302	Class 2 Over 6 m	530	585	Y	55
103	Class 3 15,001 - 20,000	585	650	Y	65
303	Class 3 Over 6 m	640	710	Y	70
104	Class 4 20,001 - 25,000	700	780	Y	80
304	Class 4 Over 6 m	775	860	Y	85
105	Class 5 25,001 - 30,000	810	900	Y	90
305	Class 5 Over 6 m	885	985	Y	100
106	Class 6 30,001 +	935	1040	Y	105
306	Class 6 Over 6 m	1020	1135	Y	115
Commercial Softwood Thinning					
110	Density < 5,000	620	690	Y	60
111	Density >= 5,000	705	785	Y	80
112	Stumpage		-300		
Softwood Release Cuts					
115	Soft. Over. (Up to 20 m2)	270	300	Y	30
116	Hard. Over. (Up to 12 m2)	210	228	Y	20
117	Poplar Over. (Up to Maximum \$)	250	280	Y	30
Other Softwood Treatment					
120	Wolf Tree Elimination	95	105	Y	10
125	Uniform Shelterwood	465	515	Y	50
126	Strip Shelterwood	95	105	Y	10
130	Chemical Release	265	290		25
180	Riparian Zone Management	405	450	Y	45
Precommercial Hardwood Thinning					
201	Class 1 5,000 - 10,000	385	425	Y	40
202	Class 2 10,001 - 15,000	480	535	Y	55
203	Class 3 15,001 - 20,000	585	650	Y	65
Commercial Hardwood Thinning					
210	< 7,000 Stems/ha	385	425	Y	40
211	>= 7,000 Stems/ha	480	535	Y	55
212	Stumpage		-300		

SCHEDULE OF RATES

1992-1993

Treatment Code	Prescription	Incentives		Contractors	Landowners
		Private	Crown	Allowance	Contribution
Hardwood Release Cuts					
215	Soft. Over. (Up to 20 m2)	270	300	Y	30
216	Hard. Over. (Up to 12 m2)	210	228	Y	20
217	Poplar Over. (Up to Maximum \$)	260	290	Y	30
Other Hardwood Treatments					
225	Uniform Shelterwood	470	520	Y	50
226	Strip Shelterwood	95	105	Y	10
240	Sugar Bush < 7,500 Stems	360	400	Y	40
241	Sugar Bush >= 7,500 Stems	435	485	Y	50
280	Riparian Zone Manage	405	450	Y	45

HARVESTING

91	Strip Clearcut
92	Clearcut
93	Patch Clearcut
94	Selective Cut
95	Special Projects
96	Cone Collection
97	Wood Extraction