

APPENDIX 4

Stand Density Index Diagrams and Tables

Figure 3b: Red Pine
Density Management Diagram
for Ontario (log/log scale).
D.J. Smith and M.E. Woods. 1997

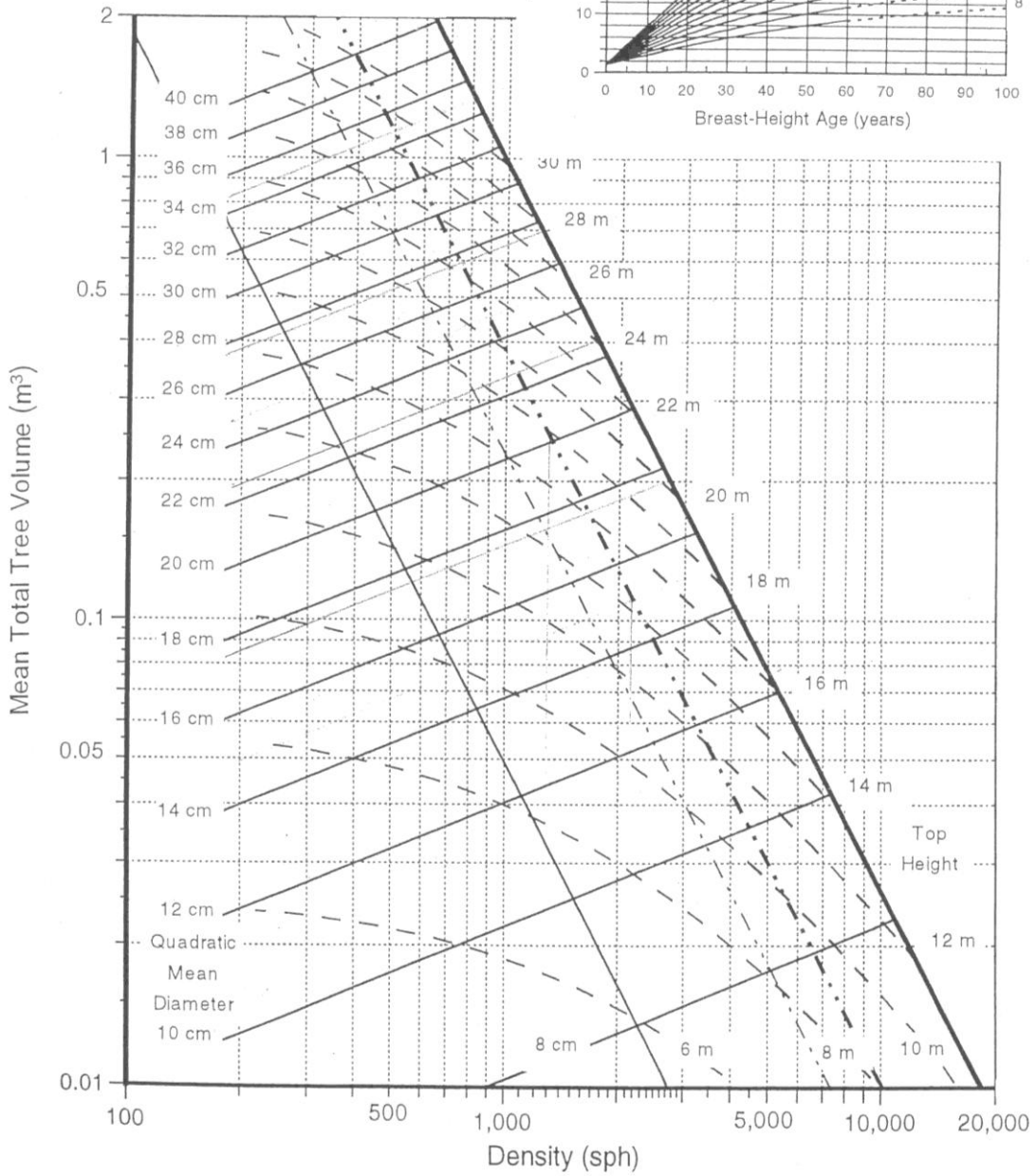
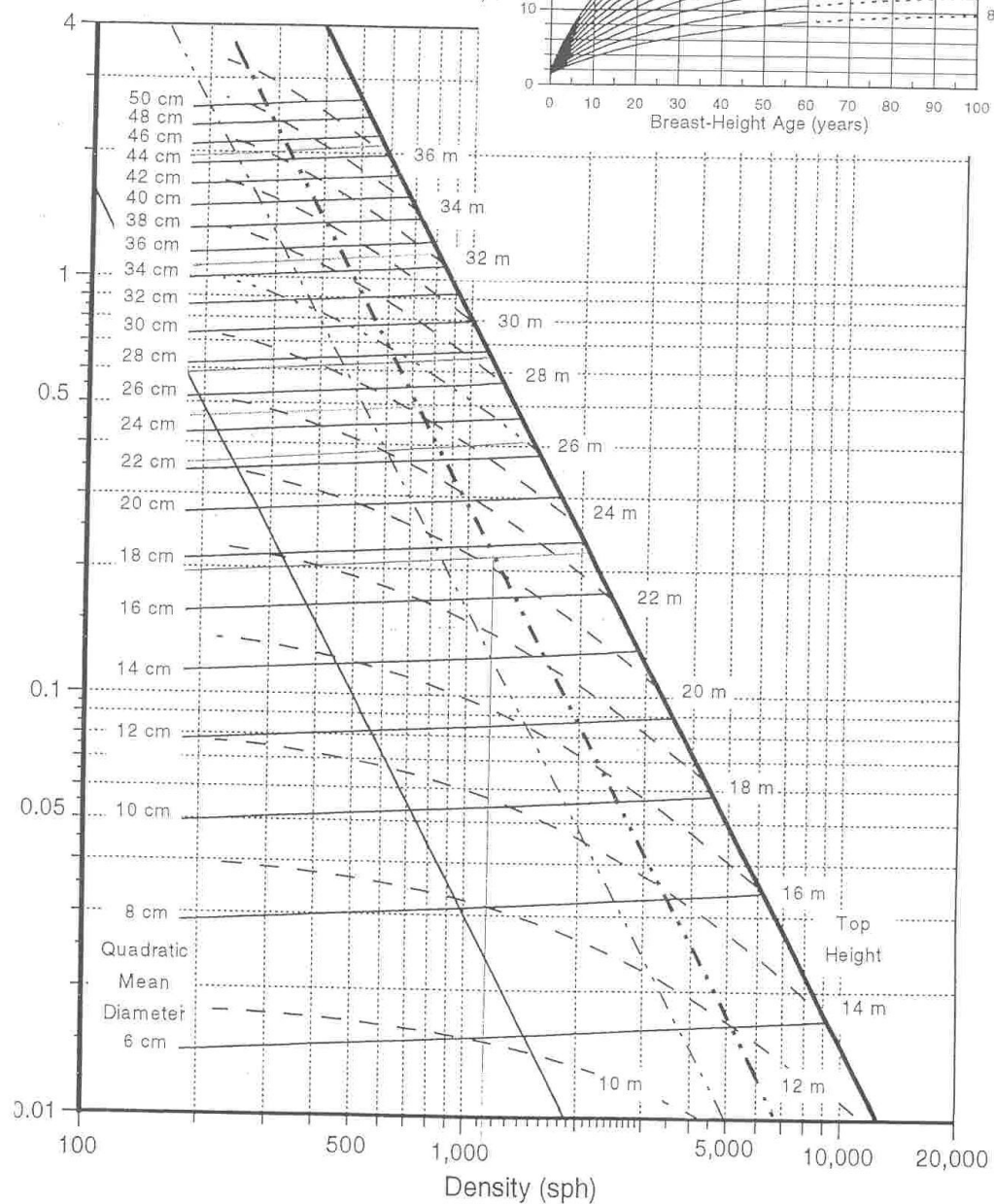
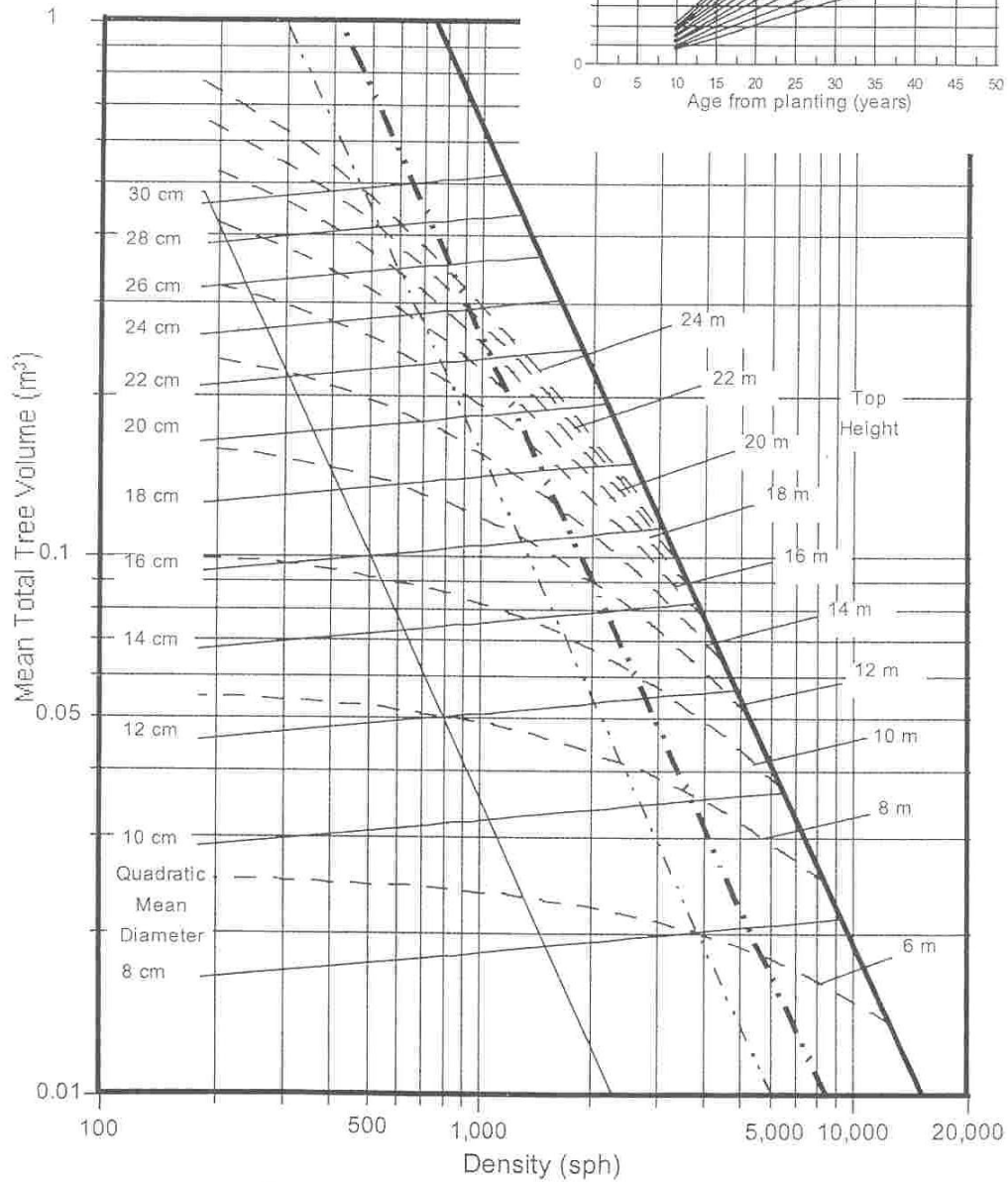
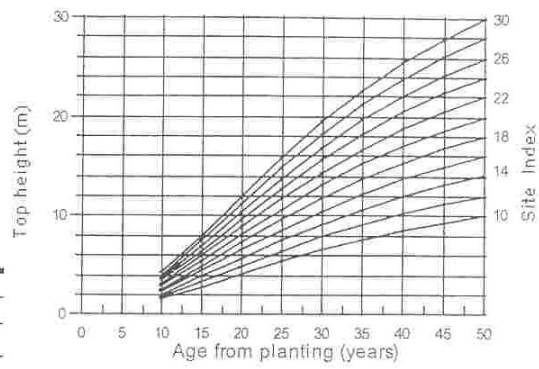


Figure 4b: White Pine
Density Management Diagram
for Ontario (log/log scale).
D.J. Smith and M.E. Woods, 1997



Plantation White Spruce
Density Management Diagram
for Ontario (log/log scale).
Draft 2001

Site index curves for plantations



Appendix 4

Basal Area Thinning Targets (Converted From SDI)

Red Pine Plantations

DBH		SDI Fully Stocked		SDI Target Residual BA			Minimum Residual BA (33% Removal)	
Cm	Inches	M2/ Ha	Ft2/ Acre	M2/ Ha	Ft2/ Acre	% Removal	M2/ Ha	Ft2/ acre
15	6	37.1	162	28.3	123	24%	24.7	108
17.5	7	38.5	168	30.1	131	22%	25.6	112
20	8	40.8	178	31.4	137	23%	27.2	118
22.5	9	42.1	183	31.8	139	24%	28.0	122
25	10	44.2	193	33.4	145	24%	29.4	128
27.5	11	44.5	194	34.4	150	23%	29.6	129
30	12	45.9	200	34.6	151	25%	30.6	133
35	14	47.1	205	36.5	159	23%	31.4	137
40	16	48.4	211	37.7	164	22%	32.2	140

Source: OMNR 1997: Red Pine and White Pine Density Management Diagrams For Ontario

White Pine Plantations

DBH		SDI Fully Stocked		SDI Target Residual BA			Minimum Residual BA (33% Removal)	
Cm	Inches	M2/ Ha	Ft2/ Acre	M2/ Ha	Ft2/ Acre	% Removal	M2/ Ha	Ft2/ acre
15	6	24.7	108	18.5	81	25%	16.5	72
17.5	7	27.6	120	20.4	89	26%	18.4	80
20	8	30.8	134	22.6	98	27%	20.5	89
22.5	9	33.0	144	23.8	104	28%	22.0	96
25	10	35.6	155	25.8	112	28%	23.7	103
27.5	11	37.4	163	27.6	120	26%	24.9	109
30	12	40.6	177	29.0	126	29%	27.0	118
35	14	44.2	193	31.7	138	28%	29.4	128
40	16	47.7	208	35.2	153	26%	31.8	138
45	18	50.9	222	37.4	163	27%	33.9	148

Source: OMNR 1997: Red Pine and White Pine Density Management Diagrams For Ontario

White Spruce Plantations

DBH		SDI Fully Stocked		SDI Target Residual BA			Minimum Residual BA (33% Removal)	
Cm	Inches	M2/ Ha	Ft2/ Acre	M2/ Ha	Ft2/ Acre	% Removal	M2/ Ha	Ft2/ acre
15	6	34.3	149	25.1	109	27%	22.8	100
17.5	7	36.7	160	26.4	115	28%	24.4	106
20	8	39.3	171	28.3	123	28%	26.2	114
22.5	9	40.7	177	29.8	130	27%	27.1	118
25	10	42.9	187	31.2	136	27%	28.6	124
27.5	11	43.6	190	32.7	142	25%	29.0	126
30	12	45.9	200	33.9	148	26%	30.6	133

Source: OMNR 2001 (Draft): Plantation White Spruce Density Management Diagram For Ontario

Basal Area Thinning Targets (From USA Stocking Diagrams)

Red Pine

DBH		USDA Fully Stocked		USDA Target Residual BA			Minimum Residual BA (33% Removal)	
Cm	Inches	M2/ Ha	Ft2/ Acre	M2/ Ha	Ft2/ Acre	% Removal	M2/ Ha	Ft2/ acre
15.2	6	36.7	160	23.0	100	37%	24.4	106
17.8	7	39.0	170	26.4	115	32%	26.0	113
20.3	8	40.2	175	28.7	125	29%	26.8	117
22.9	9	42.5	185	29.8	130	30%	28.3	123
25.4	10	43.6	190	32.1	140	26%	29.0	126
30.5	12	47.1	205	35.6	155	24%	31.4	137
35.6	14	49.4	215	37.9	165	23%	32.9	143
40.6	16	51.7	225	39.0	170	25%	34.4	150
45.7	18	53.9	235	41.3	180	23%	35.9	156

Source: USDA 1986: Land and Resource Management Plan Hiawatha National Forest

White Pine

DBH		Fully Stocked		Target Residual BA			Minimum Residual BA (33% Removal)	
Cm	Inches	M2/ Ha	Ft2/ Acre	M2/ Ha	Ft2/ Acre	% Removal	M2/ Ha	Ft2/ acre
15.2	6	33.3	145	20.9	91	37%	22.2	97
17.8	7	35.6	155	24.1	105	32%	23.7	103
20.3	8	39.0	170	27.9	121	29%	26.0	113
22.9	9	41.3	180	29.0	126	30%	27.5	120
25.4	10	43.6	190	32.1	140	26%	29.0	127
30.5	12	48.2	210	36.4	159	24%	32.1	140
35.6	14	50.5	220	38.7	169	23%	33.6	147
40.6	16	52.8	230	39.8	174	25%	35.2	153
45.7	18	55.1	240	42.2	184	23%	36.7	160

Source: Wisconsin Extension (1996): Estimating Stocking Conditions in Your Timber Stand