

Table S4. Yield table for site index SI = 24 and high-density plots (relative spacing index > 21.11%).

t	H ₀	Stand before thinning							Stand removed						Stand after thinning					VT	WT	Cm	Cc
		N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp				
20	5.15	8992	4.40	6.0	25.2	85.0	80.4	93.2	5198	1.8	1.3	4.5	4.5	5.6	3794	9.0	24.0	80.5	87.6	85.0	97.4	4.39	
30	8.72	3794	7.05	10.3	31.5	150.6	142.0	149.6	1628	2.9	1.1	5.3	9.8	5.9	2166	13.4	30.5	145.4	143.7	155.2	159.3	5.27	7.01
40	12.28	2166	9.59	14.6	36.4	218.4	205.6	203.4	709	3.9	0.9	5.4	15.2	5.7	1457	17.6	35.5	213.0	197.7	228.2	219.0	5.78	7.31
50	15.65	1457	11.91	18.8	40.3	284.1	267.0	252.7	372	4.9	0.7	5.3	20.5	5.3	1085	21.6	39.6	278.8	247.4	299.3	274.1	6.04	7.10
60	18.73	1085	13.99	22.6	43.5	345.3	324.2	297.0	220	5.9	0.6	4.9	25.4	4.8	865	25.1	42.9	340.4	292.2	365.8	323.6	6.14	6.65
70	21.52	865	15.84	26.0	46.1	401.3	376.4	336.2	142	6.7	0.5	4.5	29.9	4.3	724	28.3	45.6	396.7	332.0	426.7	367.6	6.14	6.09
80	24.00	724	17.47	29.1	48.3	451.8	423.5	370.9	97	7.4	0.4	4.1	34.0	3.8	627	31.2	47.9	447.7	367.1	481.7	406.6	6.06	5.50
90	26.21	627	18.91	31.9	50.1	497.0	465.7	401.3	70	8.1	0.4	3.7	37.7	3.4	557	33.7	49.7	493.3	398.0	531.1	440.8	5.93	4.94
100	28.17	557	20.17	34.4	51.6	537.5	503.4	428.1	52	8.7	0.3	3.3	41.4	3.0	505	36.0	51.3	534.1	425.2	575.2	471.0	5.78	4.41
110	29.91	505	21.28	36.5	53.0	573.6	537.0	451.8	40	9.2	0.3	3.0	44.1	2.7	465	38.0	52.7	570.6	449.1	614.6	497.6	5.61	3.94
120	31.45	465	22.26	38.5	54.1	605.8	567.0	472.7	31	9.6	0.2	2.7	46.7	2.4	433	39.8	53.9	603.1	470.3	649.8	521.2	5.44	3.52
130	32.83	433	23.13	40.2	55.1	634.6	593.8	491.2	25	10.0	0.2	2.4	49.2	2.1	408	41.4	54.9	632.1	489.0	681.3	542.0	5.26	3.15
140	34.05	408	23.91	41.8	55.9	660.3	617.8	507.6	21	10.4	0.2	2.2	51.3	1.9	387	42.8	55.8	658.2	505.7	709.5	560.6	5.09	2.82
150	35.15	387	24.60	43.2	56.7	683.5	639.3	522.3	17	10.7	0.2	2.0	53.3	1.7	370	44.1	56.5	681.5	520.6	734.8	577.1	4.92	2.53
160	36.14	370	25.21	44.4	57.3	704.3	658.7	535.4	14	11.0	0.1	1.8	55.1	1.5	356	45.2	57.2	702.5	533.9	757.6	592.0	4.75	2.28
170	37.03	356	25.77	45.5	57.9	723.1	676.2	547.2	12	11.3	0.1	1.6	56.7	1.4	344	46.3	57.8	721.5	545.8	778.2	605.3	4.59	2.06
180	37.83	344	26.27	46.5	58.5	740.1	692.0	557.8	11	11.5	0.1	1.5	58.1	1.2	333	47.2	58.4	738.7	556.6	796.8	617.3	4.44	1.86
190	38.56	333	26.72	47.5	58.9	755.5	706.3	567.4	9	11.8	0.1	1.3	59.5	1.1	324	48.1	58.8	754.2	566.3	813.7	628.1	4.30	1.69
200	39.22	324	27.13	48.3	59.4	769.6	719.4	576.1															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S5. Yield table for site index SI = 24 and low-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning								
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc
20	5.15	6592	4.40	5.8	17.3	57.2	54.5	59.6	4189	3.8	4.8	16.5	16.5	19.1	2403	8.1	12.5	40.7	40.6	57.2	68.0	2.86	
30	8.72	2403	7.05	11.8	26.2	124.0	117.3	120.1	1156	7.4	5.0	24.6	41.2	26.6	1247	14.7	21.2	99.4	93.5	140.6	147.4	4.69	8.33
40	12.28	1247	9.59	18.7	34.3	204.9	193.1	189.2	463	11.4	4.8	29.7	70.9	30.7	784	21.9	29.5	175.2	158.5	246.1	243.2	6.15	10.56
50	15.65	784	11.91	25.9	41.4	292.2	274.5	260.9	229	15.6	4.4	32.1	103.0	32.1	556	29.1	37.1	260.1	228.8	363.1	345.5	7.26	11.70
60	18.73	556	13.99	33.1	47.7	380.5	356.6	331.3	129	19.6	3.9	32.6	135.6	31.9	426	36.2	43.8	347.9	299.5	483.5	448.1	8.06	12.04
70	21.52	426	15.84	39.9	53.2	466.1	436.1	398.2	80	23.4	3.5	31.8	167.4	30.5	346	42.8	49.7	434.3	367.6	601.7	546.8	8.60	11.82
80	24.00	346	17.47	46.2	58.0	547.1	511.1	460.3	54	27.0	3.1	30.3	197.7	28.7	292	48.9	54.9	516.8	431.7	714.5	639.5	8.93	11.28
90	26.21	292	18.91	52.0	62.1	622.5	580.9	517.4	38	30.2	2.7	28.4	226.1	26.5	255	54.5	59.4	594.1	490.9	820.2	725.2	9.11	10.56
100	28.17	255	20.17	57.3	65.7	691.9	645.1	569.4	28	33.2	2.4	26.3	252.4	24.4	227	59.6	63.3	665.6	545.0	917.9	803.7	9.18	9.78
110	29.91	227	21.28	62.2	68.9	755.4	703.8	616.5	21	35.9	2.1	24.2	276.6	22.3	206	64.2	66.8	731.1	594.2	1007.7	875.2	9.16	8.98
120	31.45	206	22.26	66.5	71.7	813.2	757.2	659.1	16	38.3	1.9	22.2	298.8	20.3	190	68.4	69.8	791.0	638.8	1089.8	940.1	9.08	8.21
130	32.83	190	23.13	70.5	74.1	865.9	805.9	697.7	13	40.5	1.7	20.3	319.1	18.5	177	72.2	72.5	845.6	679.2	1164.7	998.9	8.96	7.49
140	34.05	177	23.91	74.1	76.3	913.8	850.0	732.5	10	42.5	1.5	18.6	337.7	16.8	167	75.6	74.8	895.2	715.7	1232.9	1052.2	8.81	6.82
150	35.15	167	24.60	77.3	78.2	957.3	890.2	764.0	9	44.3	1.3	17.0	354.7	15.3	158	78.7	76.9	940.4	748.7	1295.0	1100.6	8.63	6.21
160	36.14	158	25.21	80.3	79.9	997.0	926.7	792.6	7	46.0	1.2	15.5	370.2	13.9	151	81.5	78.7	981.4	778.7	1351.6	1144.4	8.45	5.66
170	37.03	151	25.77	82.9	81.5	1033.1	960.0	818.6	6	47.4	1.1	14.2	384.4	12.7	145	84.1	80.4	1018.9	805.9	1403.3	1184.3	8.25	5.17
180	37.83	145	26.27	85.4	82.8	1066.1	990.4	842.2	5	48.8	1.0	13.0	397.4	11.6	140	86.4	81.9	1053.0	830.6	1450.5	1220.7	8.06	4.72
190	38.56	140	26.72	87.6	84.1	1096.2	1018.1	863.7	4	50.0	0.9	12.0	409.4	10.6	135	88.5	83.2	1084.2	853.1	1493.7	1253.8	7.86	4.32
200	39.22	135	27.13	89.6	85.2	1123.8	1043.6	883.4															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S6. Yield table for site index SI = 18 and high-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning								
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc
20	3.50	16919	3.11	4.0	21.5	55.9	53.0	65.9	9987	1.2	1.1	3.1	3.1	4.1	6932	6.1	20.3	52.8	61.8	55.9	68.9	2.80	
30	6.03	6932	5.07	7.0	27.0	101.0	95.5	107.5	3091	2.0	0.9	3.7	6.8	4.4	3841	9.3	26.0	97.3	103.0	104.1	114.5	3.47	4.82
40	8.66	3841	7.01	10.2	31.4	149.4	140.9	148.6	1330	2.8	0.8	4.0	10.8	4.5	2511	12.5	30.6	145.5	144.1	156.2	160.1	3.91	5.21
50	11.22	2511	8.84	13.3	35.1	198.0	186.5	187.5	690	3.5	0.7	4.0	14.8	4.3	1821	15.5	34.4	194.1	183.3	208.8	203.5	4.18	5.26
60	13.66	1821	10.54	16.3	38.1	245.0	230.5	223.6	404	4.3	0.6	3.9	18.6	4.0	1417	18.4	37.5	241.2	219.7	259.8	243.9	4.33	5.10
70	15.92	1417	12.10	19.1	40.6	289.4	272.0	256.6	258	4.9	0.5	3.7	22.3	3.7	1159	21.0	40.1	285.8	253.0	308.0	280.8	4.40	4.82
80	18.00	1159	13.50	21.7	42.8	330.7	310.5	286.5	175	5.5	0.4	3.4	25.7	3.3	983	23.4	42.3	327.2	283.2	353.0	314.4	4.41	4.49
90	19.90	983	14.77	24.0	44.6	368.6	346.0	313.5	125	6.1	0.4	3.2	28.9	3.0	858	25.6	44.2	365.5	310.4	394.4	344.7	4.38	4.14
100	21.62	858	15.91	26.2	46.2	403.4	378.4	337.7	93	6.6	0.3	2.9	31.8	2.7	766	27.6	45.9	400.5	335.0	432.3	372.0	4.32	3.79
110	23.18	766	16.94	28.1	47.6	435.1	408.0	359.5	71	7.1	0.3	2.7	34.5	2.5	695	29.4	47.3	432.4	357.0	466.9	396.5	4.24	3.46
120	24.60	695	17.86	29.9	48.8	463.9	434.8	379.1	55	7.5	0.2	2.4	36.9	2.2	640	31.1	48.5	461.5	376.9	498.4	418.6	4.15	3.15
130	25.87	640	18.69	31.5	49.8	490.2	459.3	396.7	44	7.9	0.2	2.2	39.1	2.0	596	32.6	49.6	487.9	394.7	527.1	438.5	4.05	2.87
140	27.03	596	19.44	32.9	50.8	514.0	481.5	412.6	36	8.2	0.2	2.0	41.1	1.8	559	33.9	50.6	512.0	410.8	553.1	456.4	3.95	2.61
150	28.08	559	20.11	34.3	51.6	535.8	501.8	427.0	30	8.5	0.2	1.9	43.0	1.7	530	35.2	51.4	533.9	425.3	576.9	472.6	3.85	2.38
160	29.04	530	20.73	35.5	52.3	555.6	520.2	440.0	25	8.8	0.2	1.7	44.7	1.5	505	36.3	52.2	553.9	438.5	598.6	487.3	3.74	2.17
170	29.91	505	21.28	36.6	53.0	573.6	537.1	451.8	21	9.1	0.1	1.6	46.3	1.4	484	37.3	52.8	572.1	450.4	618.3	500.6	3.64	1.98
180	30.70	484	21.79	37.6	53.5	590.2	552.5	462.6	18	9.3	0.1	1.4	47.7	1.3	465	38.2	53.4	588.7	461.3	636.4	512.7	3.54	1.81
190	31.43	465	22.25	38.5	54.1	605.3	566.6	472.4	16	9.5	0.1	1.3	49.0	1.2	450	39.1	54.0	604.0	471.2	653.0	523.8	3.44	1.66
200	32.09	450	22.67	39.3	54.6	619.2	579.5	481.3															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S7. Yield table for site index SI = 18 and low-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning								
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc
20	3.50	13806	3.11	3.4	12.8	32.5	31.1	35.7	8944	2.3	3.7	9.7	9.7	11.7	4862	4.9	9.1	22.8	24.0	32.5	40.7	1.62	
30	6.03	4862	5.07	7.2	19.6	72.3	68.7	73.6	2425	4.5	3.9	15.0	24.7	17.1	2437	9.1	15.7	57.2	56.6	81.9	90.3	2.73	4.94
40	8.66	2437	7.01	11.7	26.0	122.7	116.1	118.9	955	7.2	3.9	19.0	43.7	20.5	1483	13.8	22.2	103.7	98.3	147.4	152.6	3.68	6.54
50	11.22	1483	8.84	16.6	31.9	179.5	169.3	167.8	464	10.0	3.6	21.4	65.1	22.4	1018	18.8	28.3	158.1	145.4	223.2	222.1	4.46	7.58
60	13.66	1018	10.54	21.6	37.2	239.3	225.2	217.8	259	12.9	3.4	22.6	87.7	23.1	759	23.8	33.9	216.7	194.7	304.4	294.4	5.07	8.13
70	15.92	759	12.10	26.5	42.0	299.7	281.4	266.9	159	15.7	3.1	22.9	110.6	22.9	600	28.7	38.9	276.8	244.0	387.4	366.7	5.53	8.30
80	18.00	600	13.50	31.3	46.2	358.8	336.5	314.2	105	18.4	2.8	22.5	133.1	22.2	495	33.4	43.5	336.3	292.0	469.4	436.9	5.87	8.20
90	19.90	495	14.77	35.9	50.0	415.6	389.2	358.9	73	20.9	2.5	21.7	154.8	21.1	422	37.8	47.5	393.9	337.8	548.7	503.8	6.10	7.93
100	21.62	422	15.91	40.1	53.4	469.5	439.2	400.8	53	23.3	2.3	20.7	175.5	19.9	370	42.0	51.1	448.8	380.9	624.3	566.7	6.24	7.56
110	23.18	370	16.94	44.1	56.4	520.0	486.0	439.6	40	25.5	2.0	19.5	195.1	18.6	330	45.8	54.4	500.4	421.0	695.5	625.5	6.32	7.12
120	24.60	330	17.86	47.7	59.1	567.1	529.7	475.6	31	27.6	1.8	18.3	213.4	17.3	300	49.3	57.3	548.8	458.3	762.2	680.0	6.35	6.66
130	25.87	300	18.69	51.1	61.5	610.9	570.2	508.7	24	29.5	1.6	17.1	230.4	16.0	275	52.6	59.8	593.8	492.6	824.2	730.4	6.34	6.21
140	27.03	275	19.44	54.2	63.6	651.4	607.7	539.1	19	31.2	1.5	15.9	246.3	14.8	256	55.6	62.2	635.5	524.3	881.8	776.9	6.30	5.76
150	28.08	256	20.11	57.1	65.6	688.9	642.3	567.1	16	32.8	1.3	14.7	261.1	13.7	240	58.4	64.2	674.1	553.5	935.2	819.7	6.23	5.34
160	29.04	240	20.73	59.7	67.3	723.5	674.4	592.9	13	34.3	1.2	13.7	274.7	12.6	227	60.9	66.1	709.8	580.3	984.6	859.2	6.15	4.94
170	29.91	227	21.28	62.2	68.9	755.5	703.9	616.6	11	35.6	1.1	12.7	287.4	11.7	216	63.2	67.8	742.8	604.9	1030.2	895.5	6.06	4.57
180	30.70	216	21.79	64.4	70.3	785.1	731.2	638.4	9	36.9	1.0	11.8	299.2	10.8	206	65.4	69.3	773.3	627.6	1072.5	929.0	5.96	4.23
190	31.43	206	22.25	66.5	71.6	812.4	756.5	658.5	8	38.0	0.9	10.9	310.1	10.0	198	67.4	70.7	801.5	648.5	1111.6	959.9	5.85	3.91
200	32.09	198	22.67	68.4	72.8	837.7	779.8	677.0															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S8. Yield table for site index SI = 12 and high-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning									
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc	
20	2.07	39799	1.95	2.3	17.2	31.7	30.2	41.2	24005	0.7	0.9	1.8	1.8	2.6	15794	3.6	16.3	29.9	38.6	31.7	43.1	1.59		
30	3.65	15794	3.23	4.2	21.8	58.5	55.5	68.5	7333	1.2	0.8	2.3	4.1	3.0	8460	5.6	21.0	56.3	65.5	60.3	73.0	2.01	2.86	
40	5.34	8460	4.55	6.2	25.6	88.5	83.7	96.4	3112	1.7	0.7	2.5	6.6	3.1	5348	7.7	24.9	86.0	93.3	92.6	103.9	2.32	3.23	
50	7.07	5348	5.85	8.3	28.9	120.0	113.3	123.9	1594	2.2	0.6	2.7	9.3	3.1	3754	9.8	28.2	117.3	120.8	126.6	134.5	2.53	3.40	
60	8.78	3754	7.09	10.4	31.6	151.7	143.0	150.4	922	2.7	0.5	2.7	12.0	3.0	2832	11.8	31.1	149.0	147.4	161.0	164.1	2.68	3.44	
70	10.43	2832	8.28	12.4	34.0	182.9	172.3	175.6	582	3.2	0.5	2.6	14.6	2.9	2250	13.8	33.5	180.2	172.7	194.9	192.3	2.78	3.39	
80	12.00	2250	9.39	14.3	36.1	213.0	200.5	199.2	391	3.7	0.4	2.6	17.2	2.7	1859	15.6	35.6	210.4	196.5	227.6	218.7	2.85	3.28	
90	13.48	1859	10.42	16.1	37.9	241.7	227.4	221.1	276	4.1	0.4	2.5	19.6	2.5	1583	17.4	37.5	239.3	218.6	258.9	243.4	2.88	3.13	
100	14.88	1583	11.38	17.8	39.5	268.9	252.8	241.5	202	4.5	0.3	2.3	22.0	2.4	1381	19.0	39.1	266.6	239.1	288.5	266.3	2.89	2.96	
110	16.17	1381	12.27	19.4	40.9	294.4	276.6	260.3	153	4.9	0.3	2.2	24.1	2.2	1227	20.5	40.6	292.2	258.1	316.4	287.5	2.88	2.79	
120	17.38	1227	13.08	20.9	42.1	318.3	299.0	277.6	119	5.3	0.3	2.1	26.2	2.0	1108	21.9	41.9	316.3	275.6	342.5	307.0	2.85	2.61	
130	18.50	1108	13.84	22.3	43.3	340.6	319.8	293.6	95	5.6	0.2	1.9	28.1	1.9	1013	23.3	43.0	338.7	291.8	366.8	325.0	2.82	2.43	
140	19.54	1013	14.53	23.6	44.3	361.4	339.2	308.3	77	5.9	0.2	1.8	29.9	1.7	937	24.5	44.1	359.6	306.6	389.5	341.6	2.78	2.27	
150	20.50	937	15.17	24.8	45.2	380.7	357.2	321.9	63	6.2	0.2	1.7	31.6	1.6	874	25.6	45.0	379.0	320.3	410.6	356.9	2.74	2.11	
160	21.38	874	15.76	25.9	46.0	398.6	373.9	334.4	52	6.5	0.2	1.6	33.1	1.5	822	26.6	45.8	397.1	332.9	430.2	371.0	2.69	1.96	
170	22.21	822	16.30	26.9	46.7	415.3	389.5	345.9	44	6.7	0.2	1.5	34.6	1.4	777	27.6	46.6	413.8	344.6	448.5	384.0	2.64	1.82	
180	22.97	777	16.80	27.9	47.4	430.8	404.0	356.6	38	6.9	0.1	1.4	36.0	1.3	740	28.5	47.2	429.5	355.3	465.4	396.0	2.59	1.70	
190	23.68	740	17.26	28.7	48.0	445.2	417.4	366.4	32	7.1	0.1	1.3	37.2	1.2	707	29.4	47.9	444.0	365.2	481.2	407.1	2.53	1.58	
200	24.34	707	17.69	29.6	48.6	458.7	429.9	375.5																

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S9. Yield table for site index SI = 12 and low-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning								
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc
20	2.07	37549	1.95	1.7	8.5	15.1	14.5	17.8	24811	1.1	2.5	4.6	4.6	6.0	12738	2.4	6.0	10.5	11.8	15.1	20.3	0.76	
30	3.65	12738	3.23	3.6	13.2	34.6	33.1	37.8	6600	2.3	2.8	7.6	12.2	9.2	6138	4.7	10.4	27.0	28.6	39.2	46.2	1.31	2.4
40	5.34	6138	4.55	6.1	17.8	60.5	57.6	62.7	2549	3.8	2.8	10.0	22.2	11.6	3590	7.3	15.0	50.4	51.1	72.6	80.3	1.82	3.35
50	7.07	3590	5.85	8.9	22.2	91.2	86.5	90.9	1217	5.4	2.8	11.9	34.1	13.3	2373	10.2	19.4	79.3	77.6	113.4	120.1	2.27	4.07
60	8.78	2373	7.09	11.9	26.3	125.2	118.4	121.1	667	7.1	2.7	13.2	47.3	14.3	1706	13.3	23.7	112.0	106.8	159.3	163.3	2.65	4.59
70	10.43	1706	8.28	15.0	30.1	161.2	152.2	152.2	402	8.9	2.5	14.0	61.3	14.8	1304	16.4	27.6	147.2	137.4	208.5	209.1	2.98	4.92
80	12.00	1304	9.39	18.1	33.6	198.0	186.6	183.4	261	10.7	2.3	14.4	75.7	15.0	1043	19.5	31.3	183.6	168.5	259.3	255.1	3.24	5.09
90	13.48	1043	10.42	21.2	36.9	235.0	221.1	214.2	179	12.4	2.2	14.5	90.2	14.8	864	22.6	34.7	220.5	199.3	310.7	300.8	3.45	5.13
100	14.88	864	11.38	24.2	39.8	271.3	255.0	244.0	128	14.1	2.0	14.3	104.4	14.5	736	25.6	37.8	257.1	229.5	361.5	345.5	3.61	5.08
110	16.17	736	12.27	27.1	42.5	306.7	288.0	272.6	95	15.8	1.8	13.9	118.4	14.0	642	28.4	40.7	292.8	258.7	411.2	388.5	3.74	4.97
120	17.38	642	13.08	29.9	45.0	340.8	319.7	299.9	72	17.3	1.7	13.5	131.9	13.4	569	31.1	43.3	327.4	286.6	459.2	429.8	3.83	4.81
130	18.50	569	13.84	32.5	47.2	373.5	350.1	325.8	56	18.8	1.6	12.9	144.8	12.7	513	33.7	45.7	360.5	313.1	505.4	469.1	3.89	4.61
140	19.54	513	14.53	35.0	49.3	404.6	379.0	350.3	45	20.2	1.4	12.4	157.2	12.1	468	36.1	47.9	392.2	338.2	549.4	506.3	3.92	4.40
150	20.50	468	15.17	37.3	51.2	434.1	406.3	373.3	37	21.5	1.3	11.8	168.9	11.4	431	38.4	49.9	422.3	361.9	591.2	541.4	3.94	4.18
160	21.38	431	15.76	39.5	52.9	462.0	432.2	395.0	30	22.7	1.2	11.2	180.1	10.8	401	40.5	51.7	450.8	384.2	630.9	574.4	3.94	3.96
170	22.21	401	16.30	41.6	54.5	488.3	456.6	415.3	25	23.9	1.1	10.6	190.7	10.1	376	42.5	53.4	477.7	405.2	668.4	605.5	3.93	3.75
180	22.97	376	16.80	43.5	56.0	513.1	479.6	434.3	21	25.0	1.0	10.0	200.6	9.5	355	44.4	55.0	503.1	424.8	703.7	634.6	3.91	3.54
190	23.68	355	17.26	45.4	57.3	536.4	501.2	452.2	18	26.0	1.0	9.4	210.0	9.0	337	46.2	56.4	527.0	443.2	737.0	662.0	3.88	3.33
200	24.34	337	17.69	47.1	58.6	558.4	521.6	468.9															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S10. Yield table for site index SI = 6 and high-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning								
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc
20	0.90	156696	0.92	1.0	12.1	12.8	12.2	19.5	96666	0.3	0.7	0.8	0.8	1.3	60029	1.6	11.4	12.0	18.2	12.8	20.3	0.64	
30	1.61	60029	1.56	1.8	15.5	24.2	23.0	32.9	29096	0.5	0.6	1.0	1.8	1.5	30934	2.5	14.9	23.2	31.4	24.9	35.1	0.83	1.2
40	2.42	30934	2.24	2.8	18.4	37.5	35.6	47.4	12156	0.8	0.5	1.2	3.0	1.7	18778	3.5	17.8	36.3	45.7	39.2	51.1	0.98	1.43
50	3.28	18778	2.94	3.8	20.9	52.2	49.5	62.3	6127	1.0	0.5	1.3	4.3	1.7	12651	4.5	20.4	50.9	60.5	55.1	67.6	1.10	1.59
60	4.18	12651	3.65	4.8	23.1	67.8	64.2	77.3	3489	1.3	0.4	1.4	5.7	1.8	9162	5.6	22.7	66.4	75.5	72.0	84.4	1.20	1.69
70	5.09	9162	4.35	5.9	25.1	84.0	79.4	92.3	2166	1.5	0.4	1.4	7.1	1.8	6996	6.7	24.7	82.6	90.5	89.6	101.1	1.28	1.75
80	6.00	6996	5.05	7.0	26.9	100.4	94.9	107.0	1434	1.8	0.4	1.4	8.5	1.7	5562	7.8	26.6	99.0	105.2	107.4	117.6	1.34	1.79
90	6.90	5562	5.72	8.1	28.6	116.9	110.4	121.3	997	2.1	0.3	1.5	9.9	1.7	4565	8.9	28.2	115.4	119.6	125.4	133.6	1.39	1.79
100	7.79	4565	6.37	9.2	30.1	133.3	125.7	135.1	721	2.3	0.3	1.4	11.4	1.7	3844	9.9	29.7	131.8	133.5	143.2	149.2	1.43	1.78
110	8.65	3844	7.00	10.2	31.4	149.3	140.8	148.5	539	2.6	0.3	1.4	12.8	1.6	3305	11.0	31.1	147.9	146.9	160.7	164.2	1.46	1.75
120	9.49	3305	7.61	11.2	32.7	165.1	155.6	161.3	414	2.8	0.3	1.4	14.2	1.5	2891	11.9	32.4	163.7	159.8	177.9	178.6	1.48	1.72
130	10.29	2891	8.18	12.2	33.8	180.4	169.9	173.6	325	3.1	0.2	1.4	15.5	1.5	2567	12.9	33.6	179.0	172.1	194.5	192.4	1.50	1.67
140	11.07	2567	8.74	13.1	34.9	195.2	183.8	185.3	260	3.3	0.2	1.3	16.8	1.4	2307	13.8	34.6	193.9	183.9	210.7	205.6	1.51	1.62
150	11.82	2307	9.26	14.1	35.8	209.5	197.2	196.4	211	3.5	0.2	1.3	18.1	1.3	2096	14.7	35.6	208.2	195.1	226.3	218.2	1.51	1.56
160	12.53	2096	9.76	14.9	36.7	223.2	210.0	207.0	174	3.8	0.2	1.2	19.3	1.3	1922	15.6	36.5	222.0	205.8	241.3	230.1	1.51	1.50
170	13.21	1922	10.24	15.8	37.5	236.4	222.4	217.1	145	4.0	0.2	1.2	20.5	1.2	1777	16.4	37.4	235.2	215.9	255.8	241.5	1.50	1.44
180	13.86	1777	10.69	16.6	38.3	249.1	234.2	226.7	123	4.1	0.2	1.1	21.6	1.2	1654	17.1	38.1	248.0	225.5	269.6	252.3	1.50	1.38
190	14.48	1654	11.11	17.3	39.0	261.2	245.6	235.8	105	4.3	0.2	1.1	22.7	1.1	1549	17.9	38.9	260.1	234.7	282.9	262.5	1.49	1.33
200	15.07	1549	11.52	18.1	39.7	272.8	256.4	244.4															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).

Table S11. Yield table for site index SI = 6 and low-density plots (relative spacing index > 21.11%).

		Stand before thinning							Stand removed						Stand after thinning								
t	H ₀	N	Hm	dg	G	VC	VS	Wt	Ne	dge	Ge	VCe	Vac	We	Np	dgp	Gp	VCp	Wp	VT	WT	Cm	Cc
20	0.90	186530	0.92	0.5	4.4	4.4	4.3	5.9	125805	0.4	1.3	1.4	1.4	2.0	60725	0.8	3.1	3.0	3.8	4.4	6.7	0.22	
30	1.61	60725	1.56	1.2	7.0	10.5	10.1	12.8	32761	0.8	1.5	2.4	3.8	3.3	27964	1.6	5.4	8.0	9.5	11.8	15.6	0.39	0.74
40	2.42	27964	2.24	2.1	9.6	18.9	18.2	21.9	12367	1.3	1.6	3.4	7.2	4.4	15596	2.5	7.9	15.5	17.5	22.7	28.0	0.57	1.09
50	3.28	15596	2.94	3.2	12.2	29.6	28.4	32.8	5770	1.9	1.7	4.3	11.5	5.3	9827	3.7	10.5	25.3	27.5	36.8	43.3	0.74	1.41
60	4.18	9827	3.65	4.4	14.7	42.2	40.3	45.2	3089	2.6	1.7	5.0	16.5	6.1	6737	5.0	13.0	37.1	39.1	53.6	61.0	0.89	1.68
70	5.09	6737	4.35	5.7	17.1	56.3	53.6	58.7	1823	3.4	1.7	5.7	22.2	6.7	4915	6.3	15.5	50.6	52.1	72.8	80.6	1.04	1.92
80	6.00	4915	5.05	7.1	19.5	71.7	68.1	73.1	1156	4.2	1.6	6.2	28.4	7.1	3758	7.8	17.9	65.5	66.0	93.9	101.6	1.17	2.11
90	6.90	3758	5.72	8.6	21.8	88.0	83.5	88.0	775	5.1	1.6	6.6	35.0	7.4	2983	9.3	20.2	81.4	80.6	116.5	123.7	1.29	2.26
100	7.79	2983	6.37	10.1	24.0	105.1	99.6	103.3	544	5.9	1.5	6.9	41.9	7.6	2439	10.8	22.4	98.2	95.7	140.1	146.4	1.40	2.37
110	8.65	2439	7.00	11.7	26.0	122.6	116.0	118.8	395	6.8	1.4	7.1	49.0	7.7	2044	12.4	24.6	115.5	111.1	164.5	169.5	1.50	2.44
120	9.49	2044	7.61	13.2	28.0	140.3	132.6	134.3	296	7.7	1.4	7.2	56.3	7.8	1748	13.9	26.6	133.1	126.5	189.4	192.7	1.58	2.49
130	10.29	1748	8.18	14.7	29.8	158.2	149.4	149.7	227	8.6	1.3	7.3	63.5	7.7	1521	15.4	28.5	150.9	141.9	214.4	215.9	1.65	2.51
140	11.07	1521	8.74	16.3	31.6	176.0	166.0	164.8	178	9.4	1.2	7.3	70.8	7.7	1343	17.0	30.3	168.7	157.2	239.5	238.8	1.71	2.51
150	11.82	1343	9.26	17.8	33.2	193.6	182.5	179.7	143	10.3	1.2	7.2	78.0	7.5	1200	18.4	32.0	186.4	172.2	264.4	261.3	1.76	2.49
160	12.53	1200	9.76	19.2	34.8	211.0	198.7	194.3	116	11.1	1.1	7.1	85.1	7.4	1085	19.9	33.7	203.9	186.9	289.0	283.4	1.81	2.46
170	13.21	1085	10.24	20.6	36.3	228.0	214.6	208.4	95	11.9	1.1	7.0	92.1	7.2	989	21.3	35.2	221.0	201.2	313.1	304.9	1.84	2.42
180	13.86	989	10.69	22.0	37.7	244.7	230.2	222.2	80	12.7	1.0	6.8	98.9	7.0	910	22.7	36.7	237.9	215.2	336.8	325.9	1.87	2.36
190	14.48	910	11.11	23.4	39.0	260.9	245.3	235.5	67	13.4	1.0	6.7	105.6	6.8	843	24.0	38.0	254.2	228.7	359.8	346.2	1.89	2.31
200	15.07	843	11.52	24.7	40.2	276.7	260.0	248.3															

t = age (years). H₀ = dominant height (m). N = tree density (trees ha⁻¹). Hm = medium height (m). dg = squared mean diameter (cm). G = basal area (m² ha⁻¹). VC = wood volume with bark (m³ ha⁻¹). VS = wood volume without bark (m³ ha⁻¹). Wt = stand total biomass (Mg ha⁻¹). Ne = tree density removed (trees ha⁻¹). dge = squared mean diameter removed (cm). Ge = basal area removed (m² ha⁻¹). VCe = wood volume with bark removed (m³ ha⁻¹). Vac = accumulated wood volume with bark removed (m³ ha⁻¹). We = total biomass removed (Mg ha⁻¹). Np = remaining tree density (trees ha⁻¹). dgp = squared mean diameter of the remaining trees (cm). Gp = basal area of the remaining trees (m² ha⁻¹). VCp = wood volume with bark of the remaining trees (m³ ha⁻¹). Wp = remaining total biomass (Mg ha⁻¹). VT = total volume (m³ ha⁻¹). WT = total biomass (Mg ha⁻¹). Cm = mean annual increment (m³ ha⁻¹ yr⁻¹). and Cc = current annual increment (m³ ha⁻¹ yr⁻¹).