

WL 2023

Request for AAC Determination

Date Prepared:

March 27, 2012

Prepared by:

D. Pereboom, RPF & B. Pereboom, RPF
TRP Forestry Consultants Inc.

For

Boomer Enterprises Ltd.

Submitted to:

Dale Richter, RPF
Tenures Forester
Okanagan Shuswap Forest District

D. Pereboom, RPF

TRP FORESTRY CONSULTANTS INC.

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District Manager,
Okanagan - Shuswap Forest District
2501 - 14th Avenue
Vernon, BC
V1T 8Z1

March 30, 2012

ATTN: Mr. D. Richter

Dear Sir:

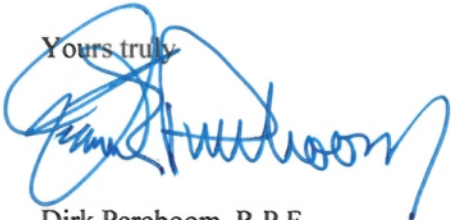
Re: Woodlot Licence 2023, Submission of Request for Re-Determination of AAC

Attached please find one copy of our request for an AAC re-determination for WL 2023 on behalf of Boomer Enterprises Ltd. This is considered as an amendment to Section 5 of the current Management Plan for WL 2023, but is submitted as a separate report since it is by far the largest section of the Management Plan.

We have submitted to you, via email attachments, the 'lot file' used in the 'Woodlot for Windows' program and the complete compilation report of the inventory cruise for the mature polygons on the Schedule B (crown) lands. A summary of the inventory cruise compilation is also included in the appendixes to the attached report.

Please call the undersigned if you require clarification or additional information.

Yours truly,



Dirk Pereboom R.P.F.
President of TRP Forestry Consultants Inc. and Boomer Enterprises Ltd.

RECEIVED

MAR 30 2012

MINISTRY OF FORESTS
OKANAGAN SHUSWAP FOREST DISTRICT

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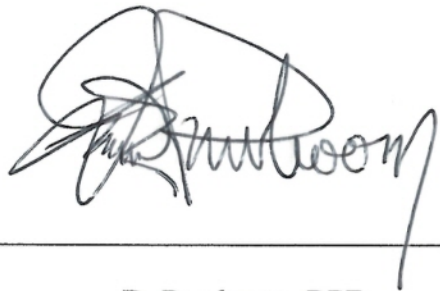
D. Pereboom, RPF & B. Pereboom, RPF
TRP Forestry Consultants Inc.

For

Boomer Enterprises Ltd.

Submitted to:

Dale Richter, RPF
Tenures Forester
Okanagan Shuswap Forest District

A handwritten signature in black ink, appearing to read 'D. Pereboom', is written over a horizontal line.

D. Pereboom, RPF

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1.0 Introduction

Section 8(6) of the Forest Act, states that the District Manager (DM) of the Okanagan Shuswap Forest District is authorized as statutory decision maker, to determine an allowable annual cut (AAC) for woodlot licences (WL) within his forest district. Based on that authority a revision to the AAC for WL 2023 is requested. This report is actually an expanded amendment of Section 5 of the current Management Plan (MP) dealing with setting of an AAC for this woodlot licence.

The AAC for the Schedule B land is currently set 3254 m3 per year. The present AAC was set by the DM when the original licence was issued in 2009 based on then-current inventory data. The Schedule A land inventory information is based on 94 regeneration / cruise plots completed in 2009 as part of the preparation for the initial bidding for this woodlot licence, but has not yet been added to the data to establish the Long Term Sustained Yield (LTSY) and AAC Determination (AACD).

The calculation of the LTSY and AACD is facilitated using the WOODLOT for WINDOWS program, version 3.226 (WOODLOT). The calculated harvest rate is considered to be sustainable while concurrently meeting the management objectives for non-timber resource values on this WL.

The DM is requested to re-set the AAC upon assessing the validity of the assumptions in this report giving consideration to economic factors as well as social, cultural, wildlife and visual factors.

2.0 Reasons for Requesting an AAC Re-Determination at this Time

A re-determination of the AAC for WL 2023 is requested for the following reasons:

- 1) Schedule A land (94.7 ha) has been added to this WL.
- 2) The inventory data currently available for calculation of the LTSY on the Schedule B land has been updated since the previous AACD. It is posted in the Land and Resource Data Warehouse (LRDW).
- 3) Since the last AACD, the Mountain Pine Beetle (MPB) epidemic which killed a majority of the lodgepole pine (PI) trees in this Forest District, also killed the majority of the PI on this woodlot, necessitating a large overcut to salvage this timber before it became unusable. A LTSY and new AAC are hereby calculated based on the PI-depleted residual stands.
- 4) A large amount of field sampling (cruise and regeneration plots) was completed to measure actual timber volumes and other attributes particularly after MPB salvage.
- 5) Non-timber resource values have been updated from the LRDW and the LRMP for the OK TSA. These values are reflected in the LTSY and this new AAC request as well as in the new Management Plan and Woodlot Licence Plan (WLP) previously submitted.

3.0 Inventory Information

3.1 Polygon delineation

The inventory polygon lines as they appear in the LRDW have been used except where small polygons of less than 1 ha were orphaned (cut off) by the new woodlot boundaries and recent logged areas. These have been 'cleaned-up' and integrated with adjacent larger polygons where similar attributes occur. Polygons are shown on the tables and maps in Appendixes I and IX.

3.2 Polygon Attributes

The size of each polygon was determined from digital mapping. Areas of the polygons were totaled to reconcile with the area on the LRDW maps.

The current mature per-ha timber volumes (live trees only) are derived from actual cruise plots. Initially, test cruise plots were located in most mature polygons with significant components of PI to assess per-ha volumes to prepare for salvage harvesting. The resulting information strongly indicated that the field data was inconsistent with the VRI data for the same polygons. In most cases, the field data indicated substantially higher per-ha volumes of other species and lower PI volumes than stated in the VRI inventory. As a result of the discrepancies, we established 166 cruise / SI plots in 72 of the 83 polygons representing 709 ha of the total 720 ha of mature timber on the Schedule B land. All remaining non-sampled mature timber polygons are small and are designated as WTP areas and are not included in the LTSY calculation.

On the immature areas data in the RESULTS files for each polygon were used to provide the basic timber attributes. However, there were inconsistencies in the data for a significant portion of these immature polygons. To ascertain more accurate information, we established 62 SI plots on 17 polygons representing 220 ha of immature timber with regeneration big (old) enough to measure SIs using the growth intercept method (see Appendix II). For the remaining 241 ha of recently harvested polygons with very young regeneration (too small to measure Site Indexes using the growth intercept method), the averaged SIs from the adjacent timbered polygons have been assigned. This information is detailed in Appendix III.

In the mature types, cruise plots were established in all polygons used in the LTSY calculation. The prism cruise plots were a mixture of measure plots where all trees were sampled and stratified as to species, DBH and heights and count plots where the trees were stratified into species and 5 cm diameter classes. The woodlot was stratified into two areas based on observed areas of growing potential. The areas in the westerly 'panhandle' area of the woodlot (polygons 1 – 55) and the north easterly area (polygons 103 – 120) were included in Area 1. The high growth areas in the central areas of the woodlot (polygons 56 – 102) were included in Area 2.

Height-diameter curves for the major species were calculated from the tree data in the measure cruise plots in each Area. These are included in this report as Appendix IV. All trees in the count plots were assigned heights (based on each species) from the derived curve data. This data was then compiled to derive per-ha volumes using the same compilation methods as for appraisal cruises. A summary of the compiled cruise data is included in Appendix V. This compiled data was then transferred to WOODLOT for LTSY and AAC derivation purposes. The full compilation report has been sent to the MoF in digital form under separate cover.

One small error was noted in the compilation where trees tallied as balsam on the plot cards was input into the compilation program as birch. The total volume of this error was less than 1% of the total compiled volume, and has been corrected prior to transfer to the WOODLOT program.

The ages and heights of good quality trees of the leading species at each plot were also measured to derive site indexes (SI). In many cases trees of the second species were also measured. Data from these plots consistently indicate higher SIs than those assigned in the VRI. Where cedar is the current leading species, the SI for cedar is used for the current stand (VDYP). Where there is SI data for other species, the SI for the other species will be used in TIPSYS after the current stand is harvested. All field assessed SIs have been capped at 30. In mature polygons with leading species other than cedar, measured SIs in mature stands (VDYP) will also be used for managed immature stands (TIPSYS). SI information and calculations are shown in Appendix II.

There are two significant aspects of the SIs for each polygon which reduce actual volumes available as compared to the calculated volumes in the WOODLOT program. Both are modeling problems.

The first is a problem with the growth curve models. For polygons with higher SIs, the current growth models 'flatline' the annual increments at zero growth when the age of the timber grows beyond about 10 - 30 years past the calculated culmination ages. The higher the SI, the earlier culmination age occurs and the sooner the 'flatlining' occurs. This significantly reduces the calculated volume of harvestable timber available since most of the current mature polygons and even many of the currently immature polygons will be harvested well past their calculated culmination ages because of the current overabundance of mature and over mature timber. The WOODLOT program indicates that some stands will be more than 200 years old before planned harvest occurs. In real terms, this needs to be addressed by harvesting much larger annual cuts over the next 25 years to bring the inventory on this woodlot into more of a balance, however, the WOODLOT program does not allow this kind of modeling.

The second aspect of the assigned SIs deals with the change in the SIs at the time harvesting occurs and the polygons convert to the TIPSy growth model. In previous AAC determinations, using VRI assigned SIs, this usually results in an increase of about 4-6 'SI points' ($\pm 20 - 25\%$ increase). In this AAC re-determination, we have not 'upgraded' SIs at the time of conversion from VDYP to TIPSy. Since current assigned SIs are already above normal for ICHmk1 and IDFMw1 BGC sub-zones, we have retained the SIs measure on the current stands throughout the entire 250 modeling cycle in the WOODLOT program. In real terms based on ground evaluations, we feel that many of the SI are (will be) undervalued.

The crown closure (CC) for each polygon is taken from the current VRI data or best field estimates where there were obvious discrepancies. The assigned crown closures for each polygon do not affect the final timber volumes used in the WOODLOT program.

3.3 Mule Deer Winter Range

There is no designated ungulate winter range on the Schedule A or B lands on this woodlot licence.

3.4 Riparian Management

There is only one designated S-3 stream (Bonneau Creek) with 20m wide riparian reserve zones (RRZ) and 20m wide riparian management zones (RMZ) on either side. There are also five tributary S-6 streams to Bonneau Creek which have 20m wide RMZs. All of the RM area adjacent to Bonneau Creek and portions of the RMZs of the S-6 tributary streams have been deleted from the timber producing land base for AAC calculation purposes. There will also be retained individual wildlife trees scattered on many of the existing and proposed harvest blocks. These individual trees are not included as a reduction to the LTSy, but will contribute significantly to the wildlife values. Area deductions for WTPs, riparian areas and roads are identified in Appendix VI.

3.5 Visual Resource Management

There are no scenic areas set over this woodlot licence area.

- fringe on N edge in Zone, visually sensitive.

3.6 Permanent Access Structure (PAS) Deductions

Existing and future roads have been identified from map and air photo planning. The areas taken up by roads have been calculated using measured lengths in each polygon from maps and an average width of 12m. This extra width of road is to allow for landing areas, some of which will not be rehabilitated. However, current harvesting methods are tending toward roadside logging,

which creates reduced disturbance and subsequent reduced loss of growing area. Existing trails are considered as temporary and will not contribute to the PAS area. Area deductions have been made from the gross area of each affected polygon previously logged and on the second and subsequent passes on polygons which have not yet been logged. The table in Appendix VI shows the netted down areas for PAS by polygon. The maps in Appendix IX show the road locations.

3.7 Operating Area Net-Downs

Whole, or portions of some polygons are not able to produce harvestable timber for a variety of reasons. These polygons are excluded from the database for the LTSY calculation. In summary these include areas in RRZs and RMZs adjacent to Bonneau Creek and some of its tributaries, small to moderate size timber reserve areas scattered throughout the woodlot area as WTPs and a small wetland in the south corner of the woodlot. Additionally, there are diffused deductions for permanent access structures. The gross area of WL 2023 is 1275.3 ha - 1180.6 ha of crown land and 94.7 ha private land. The net operating area (timbered polygon areas contributing to the LTSY) is 1143.8 ha. All area deductions are listed in Appendix VI.

4.0 Calculation of the Long-term Sustained Yield within the WOODLOT program

4.1 General Assumptions

- Unmanaged polygons are assigned the VDYP growth model
- Managed stands are assigned the TIPSy growth model
- All currently unmanaged stands are assumed to be managed stands after the first harvest
- All polygons have been subdivided into 5.0 ha units to be harvested using a clearcut method
- The utilization standards have been set at 12.5 cm for all polygons with PI as leading species and 17.5 cm for polygons with leading species other-than-PI
- Netdowns of areas in each polygon for WTPs, riparian reserves and roads (PAS) are reflected in the polygon areas used in the WOODLOT program and are shown in Appendix VI.
- The harvesting age is determined on a polygon specific basis. The preferred harvest ages for current stands are set at culmination age, but a minimum age of 60 years if culmination is first.
- All polygons have been sorted for harvest sequence on a 'closest to harvest age' basis.
- The regeneration delay is set at 4 years. The Southern Interior Region Stocking Standards have been used to determine future species composition for each polygon, but will also reflect the current composition which includes cedar as a preferred species where it grows in naturally. However, cedar will not be planted. A rationale is provided in the WLP as it relates to cedar as a preferred species. Where Class 'A' seed has been used to plant individual polygon areas, the genetic gain (in years), as derived from the seed register, will be used.
- The Operational Area Factors (OAF) have been set at the default values of 5% and 15%.
- The Volume Additive Factors (VAF) have been revised. The VRI or field generated data includes per-ha volumes for each polygon. However, WOODLOT does not accept these volumes, but instead uses crown closure, SI and VAF to calculate its own volumes for each polygon. In nearly all instances, WOODLOT calculates volumes that are substantially below VRI volumes or cruised volumes. To avoid this discrepancy, we have prepared ratios for all

mature polygons based on the comparison of the field volumes to the WOODLOT generated volumes and increased (decreased) the VAFs of these polygons based on these ratios (see Appendix VII). This applies only to current mature stands where the VDYP growth model is used. The VAF does not apply to the TIPSYP growth model.

- When calculating the harvestable AAC, the deciduous volume is deducted from the total calculated AAC in the 'WOODLOT' output report as shown in the table below.

4.2 Calculated Long-term Harvest Rates

Using the above data and assumptions, WOODLOT 3.226 calculates the AAC as follows:

Ownership	Net Harvest Area (ha)	Coniferous AAC (m ³)	Deciduous AAC (m ³)	Total AAC (m ³)
Crown-Sch. B	1058.1	6049	3	6052
Private-Sch. A	85.7	476	7	483
Totals	1143.8	6525	10	6535

4.3 Sensitivity Analysis

Harvesting at the above calculated rate ensures that:

- Harvesting ages that are feasible from a timber size and quality perspective
- Mature (overmature) timber will remain as a portion of the forest cover
- Flexibility to change the AAC over time to accommodate possible future changes to climate, social and economic factors
- Near-depletion of the mature timber crop in approximately 203 years. A graph showing the standing inventory over time generated by WOODLOT for the greater of the culmination age or harvest age (minimum 60 years) is included in Appendix VIII.

4.4 Future Considerations

The LTSY calculations in this report are based on current and anticipated management strategies and resource constraints within WL 2023. Changes in management practices or resource uses can alter the level of the long-term harvest rate. The results of this report are subject to revision, as new information about non-timber resource values or timber attributes becomes available. A new AAC determination should be done in approximately 10 - 15 years.

5.0 Conclusions

As much as possible, ramifications from current management issues and resource constraints have been incorporated into the calculation of the LTSY and AAC determination. A change in management practice may necessitate a recalculation of the LTSY.

Within the scenario presented in this report all resource constraints have been met through removal of areas from the timber production land base and the choice of appropriate silvicultural systems.

The current standing timber volumes and SIs are important factors that drive the increase in the calculated LTSY and the new requested AAC.

The District Manager is requested to increase the AAC on the WL 2023 to: **6525 m³ per year** (net of deciduous volumes). This request is based on the growth models used in the WOODLOT program, the extensive field data collected and the assumptions discussed in this report.

Appendix I

Listing of Timber Polygons - Areas and Attributes on Schedule A & B Lands

-from VRI Data and Updated with Field Sample Data

APPENDIX I - Listing of Timber Polygons - Areas & Attributes on Schedule A & B Lands

WL Poly ID	VRI Polygon ID	Area (ha)	VRI Label	Label (from field plots)	Vol (m3/ha) from VRI	Vol (m3/ha) from field plots	SI (from VRI)	SI (adjusted based on field)	Use Category	Age 1 (from VRI)	Age 1 (from field)	Age 2 (from field)	Ht 1 (VRI)	Ht 1 (field)	Ht 2 (field)	BA (from VRI)	BA (from field)	CC	SPH (VRI)	SPH (field)	SP1	SP 1%	SP 2%	SP 3%	SP 4%	SP 5%	SP 6%	SP 7%	SP 8%	SP 9%	SP 10%	LVL TOT 176		
1	27193136	12.7	Pli(Lw)726-0/11	Lw(PliFdi)635-1/17	157	187	11.3	17.2	WTP	138	109	120	18.4	25	20	35.4	24	60	1316	365	LW	70	PLI	18	FDI	12						187		
2	27853375	4.6	FdiPli(Lw)738-0/15	FdiLwPli(BI)634-1/15	313	194	14.8	14.7	WTP	128	98	76	24.8	21.3	20	51.2	24	40	1335	523	FDI	43	LW	25	PLI	20	BL	12				194		
3	27193138	20.9	Pli(Lw)726-0/11	PliLw110-0/23L10	157		11.3	16.7	Imm	138	1	1	18.4	0.1	0.1	35.4	0	0	1316	1300	PLI	80	LW	20								-		
4	32473101	1.5	FdiPliSe(Lw)744-18V07	FdiPliSe(Lw)744-1/23	412		18.7	23.0	WTP	138			31.9			45.3		40	463	463	FDI	35	PLI	30	SW	20	LW	15				412		
5	30143239	1.2	Pli726-0/9/507	Pli726-1/21	120		9.9	21.0	WTP	138			16.4			35.5		60	1376	1376	PLI	100										120		
6	0	13.7	L07	PliLw110-0/23L07	0		0.0	21.0	Imm	0	1	1	0.0	0.1	0.1	0.0	0	0	0	1300		PLI	61	LW	39								-	
7	27853375	1.0	FdiPli(Lw)738-0/15	PliFdiLw736-1/23	313		14.6	23.0	WTP	128			24.8			51.2		60	1335	1335	FDI	65	PLI	20	LW	10	CW	5				313		
8	24993271	0.6	Pli(Lw)637-0/20/504	PliLw(CwSw)637-1/23	367		18.7	23.0	WTP	108			27.0			56.1		70	729	729	PLI	70	LW	18	CW	6	SW	6					387	
9	25353436	16.3	he, sL01	Pi(FdiLw)110-0/23L01	0		21.0	23.0	Imm	0	9	9	0.0	3.4	3.4	0.0	0	0	2400		PLI	90	FDI	5	LW	5							-	
10	24993271	0.4	Pli(Lw)637-0/20/504	PliLw(CwSw)637-1/23	367		18.7	23.0	WTP	108			27.0			56.1		70	729	729	PLI	70	LW	18	CW	6	SW	6					387	
11	24993271	0.3	Pli(Lw)637-0/20/504	PliLw(CwSw)637-1/23	367		18.7	23.0	WTP	108			27.0			56.1		70	729	729	PLI	70	LW	18	CW	6	SW	6					387	
12	27853375	1.0	FdiPli(Lw)738-0/15	PliFdiLw736-1/23	313		14.8	23.0	WTP	128			24.8			51.2		80	1335	1335	FDI	65	PLI	20	LW	10	CW	5					313	
13	25343664	0.8	PliLw(FdCw)736-0/16	PliLw(FdCw)736-1/23	311		21.0	23.0	WTP	130			23.9			46.1		65	1024	1024	PLI	45	LW	30	FDI	10	CW	10	SW	5			311	
14	25353436	0.6	he, sL01	Pi(FdiLw)110-0/23L01	0		21.0	23.0	Imm	0	9	9	0.0	3.4	3.4	0.0	0	0	2400		PLI	90	FDI	5	LW	5							-	
15	25343664	0.4	PliLw(FdCw)736-0/16	PliLw110-0/22L01	311		14.7	22.0	WTP	130	1	1	23.9	0.1	0.1	46.1		80	1024	1335	FDI	65	PLI	20	LW	10	CW	5					313	
16	27243602	4.5	FdiPli(Lw)738-0/15	FdiPli(Lw)738-1/22	313		14.8	22.0	WTP	128			24.8			51.2		80	1335	1335	FDI	65	PLI	20	LW	10	CW	5					313	
17	25343664	0.4	PliLw(FdCw)736-0/16	LwPliFdi(Sw)646-1/22	311	490	14.7	21.5	Mat	130	120	118	23.9	34	2.9	46.1	52	65	1024	966	LW	42	PLI	31	FDI	21	SW	6					490	
18	27593841	4.6	L01	Pli(CwFdi)110-02/22L01	0		15.0	21.8	Imm	0	11	11	0.0	4.3	1.5	0.0	0	0	3080		PLI	90	CW	7	FDI	3							-	
19	27144180	11.2	LwFdiCw(Pli)746-0/20	PliLw746-1/20	424		19.6	19.8	WTP	123			31.9			56.3	36	60	705	705	PLI	56	LW	39	FDI	5							424	
20	28844321	11.2	LwFdiCw(Pli)746-0/20	LwSwFdi(Cw)856-1/19	420	323	19.6	18.7	Mat	123	158	153	31.9	36	33	56.3	34	60	701	363	LW	31	SW	30	FDI	28	CW	11					323	
21	28254049	14.3	FdiPli(Lw)727-0/11	LwSwFdi(Cw)746-1/21	178	358	10.5	21.1	Mat	126	125	135	18.4	32	32	45.4	39	70	1423	562	LW	40	SW	24	FDI	19	CW	13	PLI	4			358	
22	0	2.0	L10	PliLw110-0/22L01	0		0.0	21.8	Imm	0	1	1	0.0	0.1	0.1	0.0	0	0	1300		PLI	89	LW	11									-	
23	29533991	0.5	PliLw637-0/19/503	PliLw110-0/22L01	290	0	16.2	21.8	Imm	119	1	1	26.5	0.1	0.1	38.3	0	0	1232	1300	PLI	89	LW	11									-	
24	0	6.9	FdiPliLw746-0/15	FdiLw(BI)646-1/19	0	292	0.0	19.3	Mat	0	125	115	0.0	25	29	0.0	34	60	0	619	619	FDI	50	LW	28	BL	11	PLI	7	CW	6		292	
25	30743754	4.7	Pli(BI)Se(Cw)227-20V07	Pli(BI)Sw(Cw)228-0/23L00	15		16.8	25.5	Imm	34	30		13.8			17.9		80	1576	2400	PLI	60	BL	10	LW	10	SW	10	CW	10			-	
26	0	17.6	L03	FdiLw113-0/23L03	0		17.0	22.2	Imm	0	8		0.0			0.0	35	0	2000		PLI	80	LW	45	PLI	5							-	
27	31274087	6.2	FdCwSePli646-0/17	SwFdiCw856-1/24	0	576	17.0	23.6	Mat	0	143	153	0.0	36	33	0.0	58	60	785	785	SW	40	FDI	28	CW	28	LW	3					576	
28	31764267	2.4	LwFdiCw(Pli)746-0/20	SwFdiLw856-1/26	420	693	19.8	26.4	Mat	123	158	161	31.9	36	41	56.3	60	60	701	631	SW	36	FDI	36	LW	19	BL	5	CW	4			693	
29	33594338	1.9	LwFdiCw(Pli)746-0/20	FdiLw856-1/22	420	634	19.8	22.4	Mat	123	167	167	31.9	41	41	56.3	60	60	701	589	FDI	71	LW	19	SW	8	CW	2					634	
30	36854275	3.3	he, sL5	CwFdi646-1/16	0	354	17.0	16.4	Mat	0	115	170	0.0	24	39	0.0	40	60	0	465	CW	60	FDI	40									354	
31	33654125	11.2	PliLw636-0/20	FdiCwLw847-1/22	450	380	17.0	22.3	Mat	118	119	102	27.5	35	20	50.7	43	65	890	612	FDI	41	CW	28	LW	22	SW	7	BL	2			380	
32	34344007	1.7	FdiSx(Pli)110-21/SL03	FdiSx(Pli)113-0/28L03	0		17.0	28.0	Imm	5	8	8	0.5	3	3	0.0	0	35	1327	1327	FDI	62	SW	25	PLI	13							-	
33	36634150	22.1	he, sL5	PliLw(SwFdi)116-0/25L02	0		0.0	24.6	Imm	0	9	9	0.0	3	3	0.0	60	0	3500		PLI	45	LW	24	SW	15	FDI	13	CW	3			-	
34	40744016	6.5	PliEpSe(Lw)214-16V07	PliSw(FdiLw)228-0/29V08	407	416	16.0	29.4	Imm	29	23	23	8.9	16	16	3.6	65	65	376	2600	PLI	63	SW	27	LW	5	FDI	5					-	
35	39254205	9.2	he, sL5	FdiLw(Cw)856-1/24	0	632	17.0	24.4	Mat	0	143	120	0.0	37	33	0.0	64	60	0	636	636	FDI	52	LW	31	CW	13	SW	2	BL	2		632	
36	39554340	5.8	PliLw637-0/17	PliLw110-0/25L01	418	0	17.0	24.7	Imm	118	1	1	24.6	0.1	0.1	50.9	0	70	1092	1209	PLI	89	LW	11									-	
37	40784202	2.2	LwSe(PliBI)833-14	Fdi646-1/19	161	234	13.6	19.0	WTP	168	119		26.4	37		24.8	24	35	298	225	FDI	100											234	
38	43354181	26.9	he	Pli(CwFdi)114-0/25L01	0		19.0	25.0	Imm	0	11	9	0.0	4.5	3.9	0.0	40	0	2800		PLI	89	CW	5	FDI	4	SW	2					-	
39	41893962	1.8	PliCw(Lw)646-0/25	FdiCwLw646-1/21	467	291	14.1	21.4	Mat	106	134	104	32.3	33	23	54.0	32	60	625	330	FDI	42	CW	30	LW	28							291	
40	46773983	3.2	FdiPli(Lw)736-0/16	Fd(CwLw)657-1/31	363	460	16.2	31.5	Mat	138	100	70	27.8	40	22	45.8	44	65	888	329	FDI	73	CW	12	LW	9	HW	6					460	
41	43073919	3.3	PliCw(Lw)646-0/25	CwFdiLw536-1/22	466	427	13.3	21.8	Mat	108	82	82	32.7	20	34	55.0	60	60	750	1180	CW	80	FDI	20									427	
42	42143664	2.9	Pli(FdiLw)216-16/16	Pli(FdiCw)1126-0/25L00	0		16.0	24.9	Imm	27	25	25	8.3	25	25	3.5	65	420	2800		PLI	82	FDI	11	CW	7							-	
43	44613908	19.0	PliLwAt(Fdi)111-20/SL95	FdiCwLw(Pli)118-0/28V06	0		20.0	28.1	Imm	14	12	12	4.3	8	8	0.0	10	2188	2188	FDI	32	CW	25	LW	24	PLI	19						-	
44	46773983	7.6	FdiPli(Lw)736-0/16	Fdi(Lw)646-1/21	363	467	16.2	21.0	Mat	138	134	127	27.8	32	32	45.8	48	65	888	527	FDI	91	LW	9									467	
45	46653856	7.2	PliLwFdi736-0/18br	Fdi756-1/21	449	447	16.4	20.7	Mat	138	127		27.4	34		50.0	44	65	894	383	FDI	100											447	
46	46773656	22.2	LwPliFdi736-0/16	Fdi646-1/20	348	472	16.4	19.9	Mat	138	127	101	27.6	33	20	45.3	48	65	889	512	FDI	90	CW	6	LW	2	PLI	2						472
47	47993639	4.0	LwPliFdi																															

APPENDIX I - Listing of Timber Polygons - Areas & Attributes on Schedule A & B Lands

WL Poly ID	VRI Polygon ID	Area (ha)	VRI Label	Label (from field plots)	Vol (m3/ha) from VRI	Vol (m3/ha) from field plots	SI (from VRI)	SI (adjusted based on field)	Use Category	Age 1 (from VRI)	Age 1 (from field)	Age 2 (from field)	Ht 1 (VRI)	Ht 1 (field)	Ht 2 (field)	BA (from VRI)	BA (from field)	CC	SPH (VRI)	SPH (field)	SP 1%	SP 2%	SP 3%	SP 4%	SP 5%	SP 6%	SP 7%	SP 8%	SP 9%	SP 10%	LVL TOT	
69	42752320	19.8	SeBl(Cw)1216-15/L75	SwPlI(CwFdi)227-0/27/L75	0	15.0	27.1	27.1	Imm	34	32	31	6.0	16	16	9.0	65	3000	1900	SW	42	PLI	37	CW	13	FDI	8				-	
70	0	9.4		FdiSw(Lw)1110-0/26/L07	0	0.0	25.6	25.6	Imm	0	4	4	0.0	0.5	0.5	0.0	8	0	1480	FDI	49	SW	40	LW	11						-	
71	45842422	7.7	SeCwFdi(Lw)846-0/14	SwCwFdi(Lw)846-1/28	397	636	14.9	26.3	Mat	153	119	112	29.3	34	32	50.3	59	60	871	SW	41	CW	29	FDI	20	LW	9				636	
72	0	5.1		FdiSw(Lw)1110-0/26/L07	0	0.0	26.0	26.0	Imm	0	4	4	0.0	0.5	0.5	0.0	8	0	1480	FDI	49	SW	40	LW	11						-	
73	0	6.3		SwPlI110-0/26/L07	0	0.0	25.6	25.6	Imm	0	4	4	0.0	0.5	0.5	0.0	0	0	1392	SW	62	PLI	38								-	
74	46252065	8.1	SePlI(CwFdi)212-15/L87	PlISw(FdiCw)228-0/26/L87	0	15.0	25.9	25.9	Imm	27	24	24	3.5	14	12	0.0	80	2300	3300	PLI	50	SW	29	CW	12	FDI	9				-	
75	47952055	18.2	SeAt(CwPlI)326-19/L75	SwCw(FdiPlI)228-0/26/L75	10	19.0	25.6	25.6	Imm	44	30	28	12.0	14	14	14.6	80	1465	3050	PLI	50	SW	30	BL	10	LW	10				-	
76	49512031	15.4	SeFdiCw(Lw)846-0/15	SwCw(Fdi)844-1/24/L10	393	359	15.6	23.8	Mat	158	115	115	30.7	30	21	51.0	38	40	832	SW	55	CW	27	FDI	14	BL	4				359	
77	49512031	10.4	SeFdiCw(Lw)846-0/15	SwCw(Fdi)857-1/29	393	717	15.6	29.2	Mat	158	114	111	30.7	38	27	51.0	68	65	832	SW	38	CW	37	FDI	19	LW	6				717	
78	52051855	14.1	SeFdiCw(Lw)846-0/15	CwFdi(SwLw)844-1/18/L10	418	440	15.6	18.3	Mat	158	115	110	30.7	29	41	51.0	45	40	832	CW	35	FDI	23	SW	21	LW	19	ACT	2		440	
79	53821759	2.4	he	NP-swamp	0	0	0.0	0.0	WTP	0			0.0			0.0	0	0	0												-	
80	53551672	3.9	PlIBSe(FdiLw)845-20/L07	Se(Cw)845-1/24	405	410	16.1	24.3	WTP	168	115	115	30.3	35	34	45.0	36	55	679	SW	72	CW	19	BL	9						410	
81	56011727	3.1	PlISe324-18/16/L73	PlISw227-0/26/L73	18	16.0	26.3	26.3	Imm	48	32	32	14.3	17	17	18.5	75	1457	1469	PLI	80	SW	20									-
82	53031965	0.4	FdiSeCw(Lw)846-0/16	FdiSw(CwLwHw)846-1/17	414	16.9	16.9	16.9	WTP	158	158	138	30.7	31	33	51.8	65	821	821	FDI	30	SW	30	CW	20	LW	10	HW	10		414	
83	53031965	4.9	FdiSeCw(Lw)846-0/16	PlILw1110-0/25/L10	414	16.9	25.0	25.0	Imm	158	1	1	30.7	0.1	0.1	51.8	65	821	1160	PLI	80	LW	20								-	
84	55672208	1.7	FdiPlIAc217-17/17/L07	PlI(FdiLw)227-0/31/L75	3	17.0	30.6	30.6	Imm	31	31	31	8.9	18	18	6.1	70	587	1921	PLI	60	FDI	20	LW	20						-	
85	52382248	21.3	LwPlISx(Fdi)110-16/L05	SwFdiLwPlI110-0/27/L05	0	14.6	26.7	26.7	Imm	3	5	5	0.2	0.4	0.4	0.0	1	1440	1249	SW	29	FDI	25	LW	23	PLI	23				-	
86	0	7.5	\$	SwPlI110-0/27/L05	0	0.0	26.7	26.7	Imm	0	5	5	0.0	0.4	0.4	0.0	0	0	1220	SW	52	PLI	48								-	
87	50292163	14.9	SeFdiCw(Lw)846-0/14	Sw(Fdi)846-1/28	380	637	14.9	28.2	Mat	158	110	110	29.7	34	40	50.7	59	60	858	SW	68	FDI	19	CW	9	BL	4	ACT	2		637	
88	52382248	13.6	LwPlISx(Fdi)110-16/L05	LwPlISw(Fdi)110-0/26/L05	0	14.6	26.7	26.7	Imm	3	5	5	0.2	0.4	0.4	0.0	1	1440	1467	LW	31	PLI	28	SW	28	FDI	15				-	
89	56152446	2.9	FdiSeCw(BIHw)846-16	LwCwFdi856-1/24	383	456	16.9	23.5	Mat	158	114	114	30.7	38	28	51.6	48	60	813	SW	41	CW	38	FDI	22						456	
90	59372731	0.9	Pl(FdiLwAtSx)112-20/L07	PlISwBl(Cw)117-0/25/L90	0	19.4	24.7	24.7	Imm	17	17	17	5.9	9	9	0.0	20	2682	4209	PLI	29	SW	24	BL	24	CW	13	FDI	10		-	
91	54402801	14.0	FdiSePlI(Lw)846-0/16	CwFdi(LwSw)846-1/20	484	656	16.9	19.9	Mat	158	118	115	30.7	26	41	51.3	67	65	817	SW	45	FDI	28	LW	14	SW	13				656	
92	52412735	42.4	FdiPlISe(Lw)846-0/16	SwCwFdi(Lw)846-1/25	471	576	16.9	25.3	Mat	158	118	110	30.7	32	27	50.7	57	65	819	SW	29	CW	29	FDI	25	LW	17	BL	1		576	
93	49652588	20.5	SeFdi(CwPlI)846-0/15	FdiSw856-1/28	413	600	15.6	27.9	Mat	158	118	116	30.7	42	30	50.7	55	60	827	SW	45	SW	39	CW	8	BL	5	LW	3		600	
94	47732585	20.2	FdiSeHwBl(Cw)846-18	Fdi(Cw)856-1/28	395	571	17.0	28.4	Mat	158	119	119	32.7	40	29	55.7	53	60	730	FDI	68	CW	16	SW	9	LW	7				571	
95	47453107	5.4	PlIFdi(Lw)737-0/16	FdiCw846-1/19	402	408	15.9	19.3	Mat	138	118	115	24.4	31	30	50.3	50	70	1115	FDI	47	CW	41	SW	8	LW	4				408	
96	47993061	14.8	PlIFdi(SeLw)746-0/21	FdiCwLw857-1/22	508	634	16.5	22.0	Mat	138	119	118	30.4	39	28	50.4	64	65	820	FDI	47	CW	24	LW	23	SW	6				634	
97	49293106	14.0	Se(FdCwHwBlPlI)846-15	CwFdi(LwSw)846-1/17	375	593	14.9	17.4	Mat	158	119	117	29.7	32	43	50.9	64	60	858	CW	52	FDI	23	SW	17	LW	5	AC	3		593	
98	51073087	8.4	PlIFdi(LwSe)637-0/20	FdiCw(Sw)857-1/27	636	714	16.1	27.0	Mat	108	118	84	27.6	42	25	56.1	68	70	913	FDI	50	CW	30	SW	14	LW	6				714	
99	51873094	11.7	FdiSe(BI)846-0/17	CwFdi846-1/19	560	654	16.7	19.3	Mat	208	160	135	35.4	33	42	69.8	76	60	616	SW	51	FDI	39	LW	4	SW	4				616	
100	55212819	2.8	FdiLwSe(Cw)846-0/18	Fdi(Cw)847-1/28	405	617	16.8	25.6	Mat	158	114	114	33.7	36	31	60.5	64	65	687	FDI	76	CW	13	LW	8	AC	3				617	
101	52173301	7.2	PlIFdi(Lw)638-0/18	FdiLw(CwPlI)848-1/21	475	392	15.9	20.7	Mat	108	119	111	24.6	35	36	56.4	42	80	1321	FDI	48	LW	27	CW	15	PLI	10				392	
102	49653320	1.9	Fdi(LwSe)846-0/16	FdiCw1756-1/23	509	640	16.6	22.9	Mat	208	132	132	33.4	40	27	59.9	68	60	682	FDI	54	CW	46								640	
103	52113482	3.8	PlI(Lw)638-0/18	LwPlI(Fdi)638-1/18	544	229	17.0	17.5	Mat	118	118	118	25.5	26	19	60.8	32	60	1224	LW	42	PLI	41	FDI	17						229	
104	53533542	11.4	Fdi(PlILw)638-0/17	FdiLw637-1/16	368	302	17.7	16.4	Mat	118	118	105	28.0	29	26	46.6	36	65	892	FDI	45	LW	45	PLI	8	CW	2				302	
105	55893519	16.1	Fdi(PlISw)638-0/17	FdiCw(Lw)846-1/23	391	513	17.7	23.2	Mat	118	118	116	28.0	36	24	46.6	58	60	891	FDI	54	CW	32	LW	11	SW	3				513	
106	54853332	37.7	PlI(Lw)538-0/18	FdiLw(Cw)844-1/18/L10	492	244	17.2	17.5	Mat	98	145	135	24.8	29	29	56.5	29	40	1314	FDI	46	LW	43	CW	8	PLI	3				244	
107	55212819	1.8	FdiLwSe(Cw)846-0/18	CwFdi(Lw)845-1/17	505	336	18.6	23.5	WTP	158	160	160	33.7	28	40	60.5	40	50	687	PLI	35	SW	28	LW	12						336	
108	55212819	60.2	FdiLwSe(Cw)846-0/18	PlISw(LwFdi)1110-0/28	505	18.6	25.7	25.7	Imm	158	5	5	33.7	0.5	0.5	60.5	65	687	1400	PLI	57	SW	27	PLI	6						-	
109	60433163	37.2	\$L07	LwSw(PlI)1110-0/20	0	0.0	20.1	20.1	Imm	0	4	4	0.0	0.4	0.4	0.0	0	0	1070	LW	67	SW	27								-	
110	0	2.9		LwSw744-1/20	310	0.0	20.0	20.0	WTP	0	125	125	0.0	0.1	0.1	0.0	40	40	1700	0											310	
111	56243279	3.1	PlI(Lw)538-0/18	PlILw1110-0/20/L10	482	0	17.2	20.1	Imm	98	1	1	24.8	0.1	0.1	56.5	40	80	1314	PLI	88	LW	12								-	
112	57353176	24.3	PlILw(CwFdiSe)115-15/L92	LwPlIFdi(SwCw)117-25/L92	0	13.6	25.2	25.2	Imm	118	18	17	22.9	9	9	2.0	4	58	4100	LW	39	PLI	24	FDI	20	SW	13	CW	4		-	
113	59023307	3.4	PlI(Lw)538-0/14	Fdi735-1/14	200	250	13.6	13.7	WTP	98	122	122	19.7	22	22	41.7	28	50	1719	FDI	55	PLI	45								250	
114	59803558	8.4	PlI(Fdi)538-0/14	FdiPlI735-1/15	201	207	14.1	15.0	WTP	98	126	124	19.7	23	20	41.7	28	50	1722	FDI	55	PLI	45								207	
115	59293628	9.6	FdiPlI(Lw)638-0/13	Fdi(Sw)846-1/19	150	465	13.1	18.6	Mat	118	118	117	20.8	33	27	31.8	48	65	1208	FDI	73	SW	14	LW	8	CW	3					

Appendix II

Measured Site Indexes (SI) from Field Samples - by Polygon on Schedule B Lands

Revised SIs for each polygon are included in the inventory table in Appendix I

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
1	180.1	PI	120	20.1	13	11	118.18%
	180.1	Lw	109	30.3	20	11	181.82%
	1-2	Lw	91	28.4	19.8	11	180.00%
	1-3	Lw	114	25.6	15.9	11	144.55%
		Averages	109	26.1	17.2	11.0	156.14%
2	2-1	Fd	98	21.3	14.1	14.8	95.27%
	2-2	Lw	76	20.0	15.2	14.8	102.70%
		Averages	87	20.7	14.7	14.8	98.99%
9	1	PI	4	3.0	20.5	21	97.62%
	2	PI	4	3.2	21.6	21	102.86%
	3	PI	4	3.3	22.2	21	105.71%
	4	PI	4	3.8	24.8	21	118.10%
	5	PI	4	3.5	23.2	21	110.48%
		Averages	4	3.4	22.5	21.0	106.95%
17	17-1	Lw	114	33.8	21.5	14.7	146.26%
	17-1	PI	112	29.2	21.5	14.7	146.26%
		Averages	113	31.5	21.5	14.7	146.26%
18	6	PI	7	4.3	19.5	15	130.00%
	7	PI	6	4.1	20.6	15	137.33%
	8	PI	5	4.7	25.4	15	169.33%
	9	PI	6	4.0	20.3	15	135.33%
	10	PI	5	4.2	23.4	15	156.00%
		Averages	6	4.3	21.8	15.0	145.60%
20	20-1	Fd	158	34.1	18.2	19.8	91.92%
	20-2	Fd	133	36.6	21.3	19.8	107.58%
	20-2	Sw	153	35.0	18.7	19.8	94.44%
		Averages	153	35.0	18.7	19.8	94.44%
21	21-1	Lw	117	31.6	19.8	10.5	188.57%
	21-2	Lw	135	33.3	19.8	10.5	188.57%
	21-3	Lw	117	33.6	21.1	10.5	200.95%
		Averages	117	33.6	21.1	10.5	200.95%
24	24-1	Fd	118	33.1	20.2	16.2	124.69%
	24-2	Fd	105	28.5	18.3	16.2	112.96%
		Averages	111.5	30.8	19.3	16.2	118.83%
Note: Where Cw is the leading species, the SI for the VDYP stand will use the Cw SI for the polygon. For the future TIPSy stand, the SI will be changed to the leading species for the future TIPSy leading species for that polygon.							
SI determined using the program Site Tools version 3.3. The equations used for determining the SI for each species is the recommended equation as provided by sitetools. All Immature polygons used the Growth Intercept methodology (GI).							
The Site Tools program is available at: http://www.for.gov.bc.ca/hre/sitetool/getsware.htm							

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
25	12	PI	21	15.4	25.50	18.8	135.64%
	14	BI	34	15.4	25.50	18.8	135.64%
		Averages	28	15.4	25.5	18.8	135.64%
26	345-1-6	PI	6	4.3	21.3	15	142.00%
	345-1-7	PI	6	4.1	20.6	15	137.33%
	345-1-8	PI	5	4.7	25.4	15	169.33%
	345-1-9	PI	6	4.0	20.3	15	135.33%
	345-1-10	PI	5	4.2	23.4	15	156.00%
		Averages	6	4.3	22.2	15.0	148.00%
27	27-1	Fd	146	39.3	22.0	17	129.41%
	27-2	Sw	134	39.2	25.2	17	148.24%
		Averages	140.0	39.3	23.6	17.0	138.82%
27	27-2	Cw	105	33.8	20.8	17	122.35%
		Averages	105	33.8	20.8	17.0	122.35%
28	28-1	Sw	154	44.6	28.70	19.8	144.95%
		Averages	154	44.6	28.7	19.8	144.95%
29	29-1	Fd	161	41.4	22.40	19.8	113.13%
		Averages	161	41.4	22.4	19.8	113.13%
30	30-1	Fd	165	37.7	20.1	17	118.24%
		Averages	165.0	37.7	20.1	17.0	118.24%
30	30-1	Cw	108	29.0	16.4	17	96.47%
		Averages	108	29.0	16.4	17.0	96.47%
31	31-1	Fd	110	32.6	20.60	17	121.18%
	31-2	Fd	145	40.2	22.60	17	132.94%
	31-3	Fd	149	38.4	21.30	17	125.29%
		Averages	135	37.1	21.5	17.0	126.47%
31	31-2	Cw	95	33.9	22.3	17	131.18%
		Averages	95	33.9	22.3	17.0	131.18%
33	21	PI	9	2.2	23.60	15	157.33%
	21	Fd	9	2.0	26.00	15	173.33%
	21	Lw	9	1.9	21.40	15	142.67%
	22	PI	9	2.9	24.60	15	164.00%
	22	Fd	9	1.9	24.80	15	165.33%
	22	Lw	9	2.3	23.90	15	159.33%
	23	PI	9	2.4	20.10	15	134.00%
	23	Lw ¹	7	4.7	21.90	15	146.00%
	24	PI	9	2.3	20.10	15	134.00%
	24	Fd	9	2.2	32.40	15	216.00%
	26	Fd	9	2.3	33.00	15	220.00%
	26	Lw ¹	7	5.7	24.30	15	162.00%
	73	Lw ¹	7	5.3	23.40	15	156.00%
		Averages	9	2.9	24.6	15.0	163.85%
34	27	PI	21	16.1	27.2	16	170.00%
	27	Lw	18	17.4	31.9	16	199.38%
	29	PI	18	17.4	31.1	16	194.38%
	29	PI	18	13.4	27.4	16	171.25%
		Averages	19	16.1	29.4	16.0	183.75%
35	35-1	Fd	120	42.9	26.2	17	154.12%
	35-2	Fd	136	40.1	23.2	17	136.47%
	35-3	Fd	138	41.4	23.8	17	140.00%
		Averages	131	41.5	24.4	17.0	143.53%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
37	37-1	Fd	111	30.7	19	13.6	139.71%
		Averages	111	30.7	19.0	13.6	139.71%
38	31	PI	5	4.2	23.4	19	123.16%
	32	PI	5	4.0	22.1	19	116.32%
	33	PI	5	4.6	25.0	19	131.58%
	34	PI	5	5.3	27.6	19	145.26%
	35	PI	5	5.1	26.9	19	141.58%
		Averages	5	4.6	25.0	19.0	131.58%
39	39-1	Fd	106	33.7	21.6	14.1	153.19%
	39-1	Lw	127	34.5	21.1	14.1	149.65%
		Averages	117	34.1	21.4	14.1	151.42%
39	39-1	Cw	96	26.7	16.2	14.1	114.89%
		Averages	96	26.7	16.2	14.1	114.89%
40	40-1	Fd	93	45.5	31.5	16.2	194.44%
		Averages	93	45.5	31.5	16.2	194.44%
40	40-1	Cw	63	20.9	17.3	16.2	106.79%
		Averages	63	20.9	17.3	16.2	106.79%
41	41-1	Fd	75	29.8	32.2	13.3	242.11%
		Averages	75	29.8	32.2	13.3	242.11%
41	41-1	Cw	78	21.8	15	13.3	112.78%
		Averages	78	21.8	15.0	13.3	112.78%
42	39	PI	18	12.5	24.5	16	153.13%
	39	Fd	16	8.2	21.4	16	133.75%
	40	PI	18	13.5	25.9	16	161.88%
	40	Fd	17	11.5	27.7	16	173.13%
		Averages	17	11.4	24.9	16.0	155.47%
43	36	Fd	8	9.7	29.6	20	148.00%
	36	PI	8	11.3	34.3	20	171.50%
	37	Fd	3	4.1	26.2	20	131.00%
	37	PI	2	2.3	23.1	20	115.50%
	37	Lw	8	5.8	23.2	20	116.00%
	38	Fd	9	13.1	33.7	20	168.50%
	38	Lw	10	12.3	31.0	20	155.00%
	41	Lw	11	11.4	29.0	20	145.00%
	42	PI	5	4.6	25.0	20	125.00%
	42	Lw	8	7.1	25.7	20	128.50%
		Averages	7	8.2	28.1	20.0	140.40%
44	44-1	Fd	128	39.8	23.60	16.2	145.68%
	44-2	Fd	107	28.2	18.30	16.2	112.96%
		Averages	118	34.0	21.0	16.2	129.32%
45	45-1	Fd	120	34.5	20.90	16.4	127.44%
	45-2	Fd	117	33.4	20.50	16.4	125.00%
		Averages	119	34.0	20.7	16.4	126.22%
46	46-1	Fd	109	29.7	18.8	16.4	114.63%
	46-2	Fd	117	35.5	21.8	16.4	132.93%
	46-3	Fd	144	36.8	20.7	16.4	126.22%
	46-4	Fd	111	28.9	18.1	16.4	110.37%
		Averages	120	32.7	19.9	16.4	121.04%
47	47-1	Fd	121	35.0	21.1	15.1	139.74%
	47-2	Fd	139	35.6	20.3	15.1	134.44%
		Averages	130	35.3	20.7	15.1	137.09%
47	47-1	Cw	87	28.6	19.1	15.1	126.49%
	47-2	Cw	118	25.5	12.7	15.1	84.11%
		Averages	103	27.1	15.9	15.1	105.30%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
48	48-2	Fd	84	36.7	26.6	18.1	146.96%
		Averages	84	36.7	26.6	18.1	146.96%
48	48-1	Cw	74	31.8	26.2	18.1	144.75%
	48-2	Cw	87	28.0	18.6	18.1	102.76%
		Averages	81	29.9	22.4	18.1	123.76%
49	49-1	Fd	123	30.4	18.2	16.4	110.98%
	49-2	Fd	112	30.3	18.9	16.4	115.24%
	49-2	Fd	106	33.9	21.8	16.4	132.93%
	49-3	Fd	111	38.3	24.2	16.4	147.56%
		Averages	113	33.2	20.8	16.4	126.68%
49	49-3	Cw	66	28.0	23.0	16.4	140.24%
		Averages	66	28.0	23.0	16.4	140.24%
50	50-1	Fd	128	35.3	20.8	16.2	128.40%
	50-2	Fd	115	34.1	21.1	16.2	130.25%
	50-3	Fd	128	33.6	19.8	16.2	122.22%
		Averages	124	34.3	20.6	16.2	126.95%
51	51-1	Fd	98	32.2	21.5	16.2	132.72%
	51-2	Fd	126	38.6	23.0	16.2	141.98%
	51-3	Fd	124	36.2	21.7	16.2	133.95%
		Averages	116	35.7	22.1	16.2	136.21%
53	53-1	Fd	113	39.1	24.5	16.2	151.23%
	53-2	Fd	130	25.9	15.0	16.2	92.59%
		Averages	122	32.5	19.8	16.2	121.91%
54	54-1	Fd	99	25.7	17.0	16.2	104.94%
	54-2	Fd	107	25.9	16.4	16.2	101.23%
		Averages	103	25.8	16.7	16.2	103.09%
55	45	PI	3	3.2	25.6	20	128.00%
		Lw	5	3.8	22.2	20	111.00%
	46	PI	5	4.1	23.0	20	115.00%
		Lw	5	4.4	23.9	20	119.50%
		Averages	5	3.9	23.7	20.0	118.38%
56	56-1	Fd	96	37.5	25.4	20.4	124.51%
	56-2	Sw	104	38.5	26.8	20.4	131.37%
		Averages	100	38.0	26.1	20.4	127.94%
56	56-2	Cw	114	37.5	22.8	20.4	111.76%
	56-3	Cw	94	39.6	27.7	20.4	135.78%
		Averages	104	38.6	25.3	20.4	123.77%
Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
57	57-1	Fd	113	42.8	26.90	16.9	159.17%
		Averages	113	42.8	26.9	16.9	159.17%
58	58-1	Cw	98	35.4	23.2	18.4	126.09%
	58-2	Cw	84	39.0	29.0	18.4	157.61%
		Averages	91	37.2	26.1	18.4	141.85%
59	59-1	Sw	107	40.0	27.9	14.9	187.25%
	59-2	Sw	94	36.7	26.3	14.9	176.51%
		Averages	101	38.4	27.1	14.9	181.88%
60	146-2	Sw	87	41.4	32.0	19.5	164.10%
		Sw	97	40.4	29.7	19.5	152.31%
	149-1	Fd	108	43.8	28.0	19.5	143.59%
		Fd	125	42.5	25.5	19.5	130.77%
	149-3	Fd	119	38.6	23.6	19.5	121.03%
		Sw	112	42.3	29.7	19.5	152.31%
		Averages	108	41.5	28.1	19.5	144.02%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
60	146-2	Cw	70	22.4	17.0	19.5	87.18%
	149-1	Cw	89	31.7	21.4	19.5	109.74%
		Averages	80	27.1	19.2	19.5	98.46%
61	61-1	Fd	128	28.9	16.9	18.9	89.42%
	61-2	Fd	132	38.6	22.5	18.9	119.05%
		Averages	130	33.8	19.7	18.9	104.23%
61	61-1	Cw	117	25.1	12.5	18.9	66.14%
		Averages	117	25.1	12.5	18.9	66.14%
62	62-1	Fd	105	43.9	28.60	18	158.89%
	62-2	Fd	121	36.7	22.20	18	123.33%
		Averages	113	40.3	25.4	18.0	141.11%
63	63-1	Fd	137	45.6	26.4	18.0	146.67%
	63-2	Fd	102	45.9	30.4	18.0	168.89%
		Averages	120	45.8	28.4	18.0	157.78%
63	63-1	Cw	185	36.0	15.1	18.9	79.89%
	63-2	Cw	87	38.1	27.4	18.9	144.97%
		Averages	136	37.1	21.3	18.9	112.43%
64	64-1	Fd	122	42.0	25.50	21	121.43%
	64-2	Fd	118	38.8	23.80	21	113.33%
		Averages	120	40.4	24.7	21.0	117.38%
65	65-1	Sw	165	43.8	27.2	16.7	162.87%
	65-2	Sw	102	37.2	25.7	16.7	153.89%
	65-4	Fd	126	44.9	26.9	16.7	161.08%
		Averages	131	42.0	26.6	16.7	159.28%
65	65-1	Cw	117	31.9	17.6	16.7	105.39%
	65-2	Cw	83	33.8	24.4	16.7	146.11%
	65-3	Cw	73	29.5	22.6	16.7	135.33%
	65-4	Cw	128	30.7	15.5	16.7	92.81%
		Averages	100	31.5	20.0	16.7	119.91%
66	66-1	Fd	117	42.1	26.0	15	173.33%
	66-2	Fd	160	51.3	28.2	15	188.00%
	66-3	Fd	102	41.5	27.3	15	182.00%
		Averages	126	45.0	27.2	15.0	181.11%
66	66-2	Cw	103	40.7	27.2	15	181.33%
	66-3	Cw	97	32.6	20.9	15	139.33%
		Averages	100	36.7	24.1	15.0	160.33%
Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
67	67-1	Sw	107	32.8	20.9	14.9	140.27%
	67-1	Fd	121	40.0	24.3	14.9	163.09%
	67-2	Fd	110	37.4	23.7	14.9	159.06%
	67-2	Sw	123	34.5	20.8	14.9	139.60%
	67-3	Fd	113	38.0	24.6	14.9	165.10%
	149-4	Sw	83	34.8	25.7	14.9	172.48%
		Averages	110	36.3	23.3	14.9	156.60%
67	67-3	Cw	111	30.7	18.4	14.9	123.49%
	149-4	Cw	106	32.9	19.8	14.9	132.89%
		Averages	109	31.8	19.1	14.9	128.19%
68	68-1	Sw	102	40.0	28.5	14.9	191.28%
	146-3	Sw	106	34.1	22.0	14.9	147.65%
	146-3	Sw	106	38.1	26.0	14.9	174.50%
	146-4	Sw	105	44.6	32.8	14.9	220.13%
		Averages	105	39.2	27.3	14.9	183.39%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
68	68-1	Cw	64	21.9	21.9	14.9	146.98%
	146-3	Cw	102	29.1	17.3	14.9	116.11%
	146-4	Cw	87	29.8	20.1	14.9	134.90%
		Averages	84	26.9	19.8	14.9	132.66%
69	65	PI	27	16.5	24.0	15	160.00%
	65	Lw	25	16.9	28.5	15	190.00%
	67	PI	26	16.1	24.2	15	161.33%
	67	Sw	20	13.6	28.3	15	188.67%
	68	PI	25	15.6	24.0	15	160.00%
	68	Fd	19	16.0	33.8	15	225.33%
	69	PI	22	16.4	26.9	15	179.33%
		Averages	23	15.9	27.1	15.0	180.67%
71	71-1	Sw	91	38.4	28.5	14.9	191.28%
	71-1	Fd	95	40.9	27.9	14.9	187.25%
	71-2	Fd	111	39.0	24.9	14.9	167.11%
	71-3	Sw	104	35.7	24.0	14.9	161.07%
		Averages	100	38.5	26.3	14.9	176.68%
71	71-1	Cw	93	28.5	18.1	14.9	121.48%
	71-2	Cw	93	28.5	18.1	14.9	121.48%
	71-3	Cw	74	32.9	25.5	14.9	171.14%
		Averages	87	30.0	20.6	14.9	138.03%
74	59	PI	17	12.9	27.3	15	182.00%
	60	PI	18	9.7	20.7	15	138.00%
	62	PI	13	11.7	30.7	15	204.67%
	64	PI	14	9.6	24.9	15	166.00%
		Averages	16	11.0	25.9	15.0	172.67%
75	55	PI	22	14.8	24.9	19	131.05%
	57	PI	21	16.2	27.3	19	143.68%
	57	Lw	25	18.7	28.8	19	151.58%
	58	Sw	23	15.9	29.3	19	154.21%
	58	PI	23	17.0	27.0	19	142.11%
	61	PI	23	12.6	21.4	19	112.63%
	61	BI	25	13.3	22.7	19	119.47%
	63	PI	8	7.1	25.6	19	134.74%
	63	Lw	12	8.3	23.8	19	125.26%
		Averages	20	13.8	25.6	19.0	134.97%
76	76-1	Sw	107	35.3	23.3	15.6	149.36%
	76-2	Sw	107	36.2	24.2	15.6	155.13%
		Averages	107	35.8	23.8	15.6	152.24%
77	77-1	Sw	104	41.6	29.9	15.6	191.67%
	77-2	Sw	106	40.4	28.4	15.6	182.05%
		Averages	105	41.0	29.2	15.6	186.86%
77	77-1	Cw	105	34.9	21.7	18.9	114.81%
		Averages	105	34.9	21.7	18.9	114.81%
78	78-1	Fd	131	40.8	24.0	15.6	153.85%
	78-2	Fd	126	42.6	25.5	15.6	163.46%
	78-3	Fd	101	40.2	26.6	15.6	170.51%
		Averages	119	41.2	25.4	15.6	162.61%
78	78-1	Cw	98	31.0	19.4	15.6	124.36%
	78-3	Cw	86	26.0	17.1	15.6	109.62%
		Averages	92	28.5	18.3	15.6	116.99%
80	80-1	Sw	151	40.3	24.3	16.1	150.93%
		Averages	151	40.3	24.3	16.1	150.93%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
81	70	PI	24	13.3	21.8	16	136.25%
	70	Fd	27	13.9	28.6	16	178.75%
	71	PI	27	20.3	28.7	16	179.38%
	71	PI	29	18.7	25.9	16	161.88%
		Averages	27	16.6	26.3	16.0	164.06%
84	54	PI	22	21.1	27.5	17	161.76%
		Lw	21	16.0	28.0	17	164.71%
		Fd	20	18.1	36.3	17	213.53%
		Averages	21	18.4	30.6	17.0	180.00%
87	87-1	Sw	102	43.6	32.2	14.9	216.11%
	87-2	Sw	99	35.2	24.2	14.9	162.42%
		Averages	101	39.4	28.2	14.9	189.26%
89	89-1	Lw	129	37.5	23.5	16.9	139.05%
		Averages	129	37.5	23.5	16.9	139.05%
89	89-1	Cw	105	28.6	16.5	16.9	97.63%
		Averages	105	28.6	16.5	16.9	97.63%
90	53	PI	12	9.7	25.5	19.4	131.44%
	53	BI	11	6.4	24.0	19.4	123.71%
	53	Lw	13	9.4	24.7	19.4	127.32%
		Averages	12	8.5	24.7	19.4	127.49%
91	91-1	Fd	105	37.8	24.5	16.9	144.97%
	91-2	Fd	134	41.9	25.0	16.9	147.93%
	91-3	Fd	111	47.5	30.2	16.9	178.70%
		Averages	117	42.4	26.6	16.9	157.20%
91	91-1	Cw	80	21.1	14.2	16.9	84.02%
	91-2	Cw	73	29.6	22.7	16.9	134.32%
	91-3	Cw	99	35.0	22.7	16.9	134.32%
		Averages	84	28.6	19.9	16.9	117.55%
92	92-1	Sw	110	34.5	22.0	16.9	130.18%
	92-2	Lw	141	39.5	23.6	16.9	139.64%
	92-3	Fd	122	40.1	24.3	16.9	143.79%
	92-4	Fd	102	40.7	26.8	16.9	158.58%
	92-5	Fd	119	42.3	25.9	16.9	153.25%
	92-6	Sw	123	42.8	29.1	16.9	172.19%
		Averages	120	40.0	25.3	16.9	149.61%
92	92-1	Cw	88	27.0	17.6	16.9	104.14%
	92-2	Cw	98	31.8	20.1	16.9	118.93%
	92-5	Cw	81	29.9	21.3	16.9	126.04%
	92-6	Cw	102	33.1	20.6	16.9	121.89%
		Averages	92	30.5	19.9	16.9	117.75%
93	93-1	Sw	110	34.5	22.0	15.6	141.03%
	93-2	Sw	108	41.5	29.3	15.6	187.82%
	93-2	Fd	108	47.7	30.7	15.6	196.79%
	93-3	Fd	112	42.9	27.0	15.6	173.08%
	93-3	Sw	87	36.7	27.4	15.6	175.64%
	93-4	Fd	94	45.4	31.0	15.6	198.72%
		Averages	103	41.5	27.9	15.6	178.85%
93	93-4	Cw	67	28.0	28.0	15.6	179.49%
		Averages	67	28.0	28.0	15.6	179.49%
94	94-1	Fd	113	41.5	26.0	17	152.94%
	94-2	Fd	113	44.8	28.2	17	165.88%
	94-3	Fd	112	45.9	29.0	17	170.59%
	94-4	Fd	99	45.5	30.5	17	179.41%
		Averages	109	44.4	28.4	17.0	167.21%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
95	95-1	Fd	111	26.1	16.3	15.9	102.52%
	95-2	Fd	123	37.1	22.3	15.9	140.25%
		Averages	117	31.6	19.3	15.9	121.38%
96	96-1	Fd	112	36.4	22.8	16.5	138.18%
	96-2	Fd	122	35.1	21.1	16.5	127.88%
	96-3	Fd	123	36.6	22.0	16.5	133.33%
		Averages	119	36.0	22.0	16.5	133.13%
97	97-1	Fd	112	43.5	27.5	14.9	184.56%
	97-2	Fd	110	33.6	21.2	14.9	142.28%
	97-3	Fd	151	45.3	25.3	14.9	169.80%
		Averages	124	40.8	24.7	14.9	165.55%
97	97-1	Cw	102	35.9	23.0	14.9	154.36%
	97-2	Cw	127	27.6	13.3	14.9	89.26%
	97-3	Cw	90	25.2	15.9	14.9	106.71%
		Averages	106	29.6	17.4	14.9	116.78%
98	98-1	Fd	116	45.1	28.1	18.1	155.25%
	98-2	Fd	119	42.2	25.9	18.1	143.09%
		Averages	118	43.7	27.0	18.1	149.17%
98	98-1	Cw	77	34.6	26.4	18.1	145.86%
		Averages	77	34.6	26.4	18.1	145.86%
99	99-2	Fd	118	42.3	26.1	16.7	156.29%
	99-3	Fd	197	41.5	21.0	16.7	125.75%
		Averages	158	41.9	23.6	16.7	141.02%
99	99-1	Cw	78	33.2	24.9	16.7	149.10%
	99-3	Cw	152	31.1	13.7	16.7	82.04%
		Averages	115	32.2	19.3	16.7	115.57%
100	100-1	Fd	107	39.9	25.6	18.6	137.63%
		Averages	107	39.9	25.6	18.6	137.63%
101	101-1	Fd	111	37.2	23.5	15.9	147.80%
	101-1	Fd	102	27.5	17.9	15.9	112.58%
		Averages	107	32.4	20.7	15.9	130.19%
102	102-1	Fd	123	38.1	22.9	16.6	137.95%
		Averages	123	38.1	22.9	16.6	137.95%
103	103-1	Lw	118	28.3	17.5	17	102.94%
		Averages	118	28.3	17.5	17.0	102.94%
104	104-1	Fd	95	23.6	15.9	17.7	89.83%
	104-2	Fd	77	21.8	16.5	17.7	93.22%
	104-3	Fd	128	28.9	16.9	17.7	95.48%
		Averages	100	24.8	16.4	17.7	92.84%
105	105-1	Fd	108	37.0	23.6	16.7	141.32%
	105-2	Fd	118	35.2	21.5	16.7	128.74%
	105-3	Fd	125	41.0	24.6	16.7	147.31%
		Averages	117	37.7	23.2	16.7	139.12%
105	105-2	Cw	87	29.8	20.1	16.7	120.36%
	105-3	Cw	96	31.5	20.1	16.7	120.36%
		Averages	92	30.7	20.1	16.7	120.36%
106	106-1	Lw	133	28.8	17.0	17.2	98.84%
	106-2	Lw	128	32.5	19.7	17.2	114.53%
	106-3	Lw	131	22.9	13.3	17.2	77.33%
	106-4	Lw	137	28.2	16.5	17.2	95.93%
	106-5	Lw	121	33.6	20.8	17.2	120.93%
		Averages	130	29.2	17.5	17.2	101.51%

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
107	109-1	Fd	153	42.5	23.5	18.6	126.34%
		Averages	153	42.5	23.5	18.6	126.34%
112	48	Lw	8	7.9	27.0	13.6	198.53%
	48	PI	10	7.4	23.4	13.6	172.06%
	49	Lw	12	9.1	25.1	13.6	184.56%
	50	Lw	11	8.2	24.5	13.6	180.15%
	52	Lw	12	9.4	25.5	13.6	187.50%
	52	PI	11	9.0	25.4	13.6	186.76%
		Averages	11	8.5	25.2	13.6	184.93%
113	113-1	Fd	111	22.0	13.7	13.8	99.28%
		Averages	111	22.0	13.7	13.8	99.28%
114	114-1	Fd	114	19.1	11.7	14.1	82.98%
	114-2	Fd	115	29.8	18.3	14.1	129.79%
		Averages	115	24.5	15.0	14.1	106.38%
115	115-1	Fd	103	35.6	23.2	13.1	177.10%
	115-2	Fd	117	24.8	15.1	13.1	115.27%
	115-3	Fd	108	27.7	17.5	13.1	133.59%
		Averages	109	29.4	18.6	13.1	141.98%
116	116-1	Fd	114	29.8	18.4	17.0	108.24%
	116-2	Fd	118	34.1	20.8	17.0	122.35%
	116-3	Fd	115	31.5	19.4	17.0	114.12%
		Averages	116	31.8	19.5	17.0	114.90%
117	117-1	Fd	144	36.0	20.2	17.0	118.82%
	117-2	Fd	110	34.5	21.8	17.0	128.24%
		Averages	127	35.3	21.0	17.0	123.53%
118	118-1	Fd	118	27.4	16.6	17.7	93.79%
	118-2	Fd	124	33.3	19.9	17.7	112.43%
	118-3	Fd	144	25.8	14.3	17.7	80.79%
		Averages	129	28.8	16.9	17.7	95.67%
118	118-2	Cw	105	16.4	8.1	17.7	45.76%
		Averages	105	16.4	8.1	17.7	45.76%
119	119-1	Fd	113	35.3	22.0	17	129.41%
	119-2	Lw	99	31.7	21.4	17	125.88%
		Averages	106	33.5	21.7	17.0	127.65%
119	119-2	Cw	110	22.1	11.8	17	69.41%
		Averages	110	22.1	11.8	17.0	69.41%
120	120-1	Fd	88	29.3	20.6	19	108.42%
		Averages	88	29.3	20.6	19.0	108.42%
201	1	Fd	75	28.2	21.7		
	2	Fd	80	29.9	22.2		
		Averages	78	29.1	22.0		
201	1	Cw	77	24.9	17.8		
	2	Cw	61	16.6	13.9		
		Averages	69	20.8	15.9		
202	1	Fd	77	30.0	22.8		
	2	Fd	67	27.2	22.5		
	3	Fd	77	33.3	25.4		
	4	Fd	69	30.7	24.9		
	5	Fd	53	24.1	23.2		
		Averages	69	29.1	23.8		
203	1	Fd	23	15.0	27.4		
	2	Fd	18	11.9	27.2		
	3	Fd	22	14.2	27.0		
		Averages	21	13.7	27.2		

APPENDIX II - Measured Site Indexes From Field Plots on Schedule A and B Lands

Poly #	Plot #	Species	Age (Breast Ht)	Height (m)	SI (measured)	Existing SI (from VRI)	% Increase in SI
205	1	Fd	72	21.5	18.0		
	2	Fd	60	27.6	26.5		
	3	Fd	78	27.6	22.2		
	4	Fd	79	25.6	20.4		
		Averages	72	25.6	21.8		
207	1	Fd	68	24.2	19.8		
	2	Fd	18	10.9	25.1		
		Averages	43	17.6	22.5		
207	1	Cw	62	21.1	17.7		
	3	Cw	19	15.0	27.8		
		Averages	41	18.1	22.8		
208	1	Fd	61	26.2	22.9		
	2	Fd	79	20.1	15.0		
		Averages	70	23.2	19.0		
208	1	Cw	66	26.4	21.5		
	3	Cw	62	15.2	12.5		
		Averages	64	20.8	17.0		

Appendix III

Table used to Assign Updated Site Indexes to Recently Harvested Polygons – Schedule B Lands

-used where the regeneration on these polygons is too small (young) to measure for SI using the growth intercept method

-table lists SIs from adjacent polygons used to assign updatedSIs

Appendix III - Table Used to Assign Updated SI's for Recently Harvested Polygons			
Polygon	Adjacent Polygon #	Adjacent Polygon SI	Comments
3	9	22.5	
		22.5	SI Applied to this polygon
6	6	21.0	
		21.0	SI Applied to this polygon
15	9	22.5	
	18	21.8	
		22.2	SI Applied to this polygon
22	18	21.8	
		21.8	SI Applied to this polygon
23	18	21.8	
		21.8	SI Applied to this polygon
32	25	25.5	
	34	29.4	
		27.5	SI Applied to this polygon
36	35	24.4	
	38	25.0	
		24.7	SI Applied to this polygon
70	67	23.3	
	69	27.1	
	71	26.3	
		25.6	SI Applied to this polygon
72	67	23.3	
	69	27.1	
	71	26.3	
		25.6	SI Applied to this polygon
73	67	23.3	
	69	27.1	
	71	26.3	
		25.6	SI Applied to this polygon
83	78	25.4	
		25.4	SI Applied to this polygon
85	87	28.2	
	91	26.6	
	92	25.3	
		26.7	SI Applied to this polygon
86	87	28.2	
	91	26.6	
	92	25.3	
		26.7	SI Applied to this polygon
88	87	28.2	
	91	26.6	
	92	25.3	
		26.7	SI Applied to this polygon
107	112	25.2	
	114	15.0	
		20.1	SI Applied to this polygon
108	91	26.6	
	92	25.3	
	112	25.2	
		25.7	SI Applied to this polygon
109	112	25.2	
	114	15.0	
		20.1	SI Applied to this polygon

Appendix IV

Height / Diameter Curves from Plot Data for Areas 1 & 2 on the Schedule B Land – for Cruise Volume Compilation Purposes

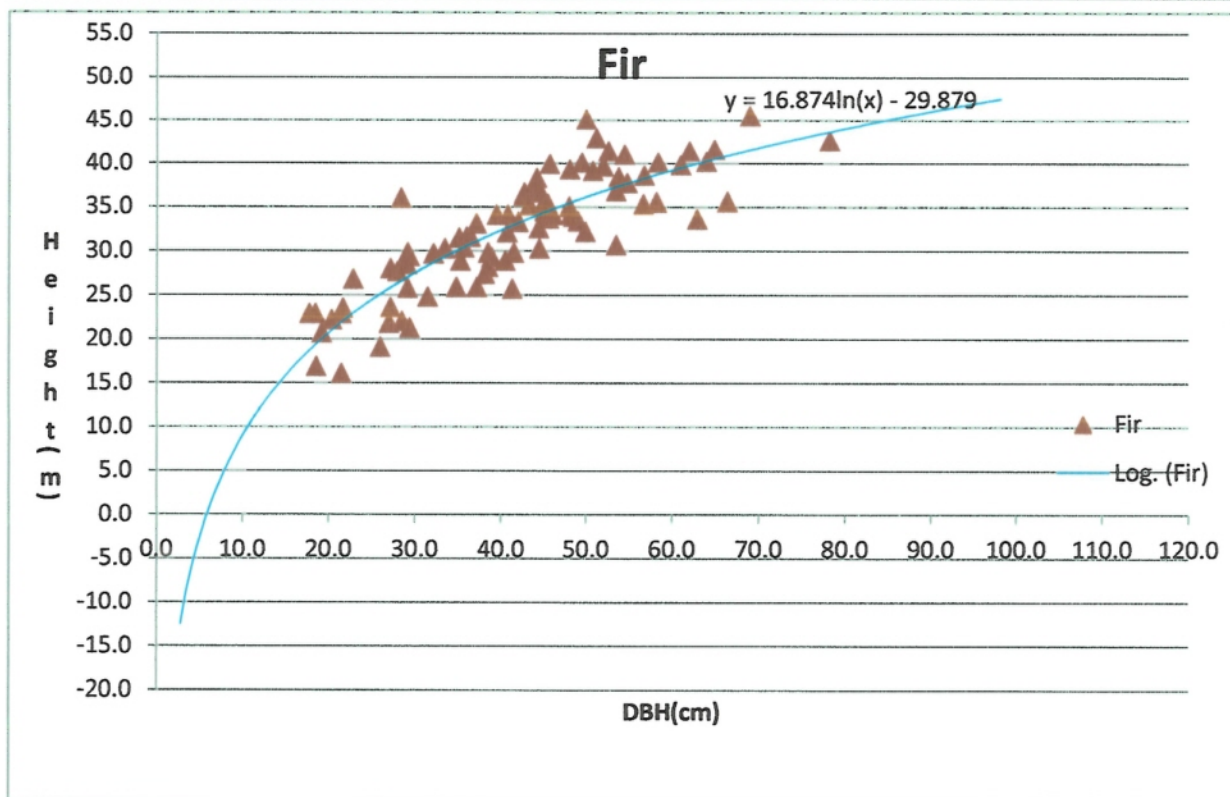
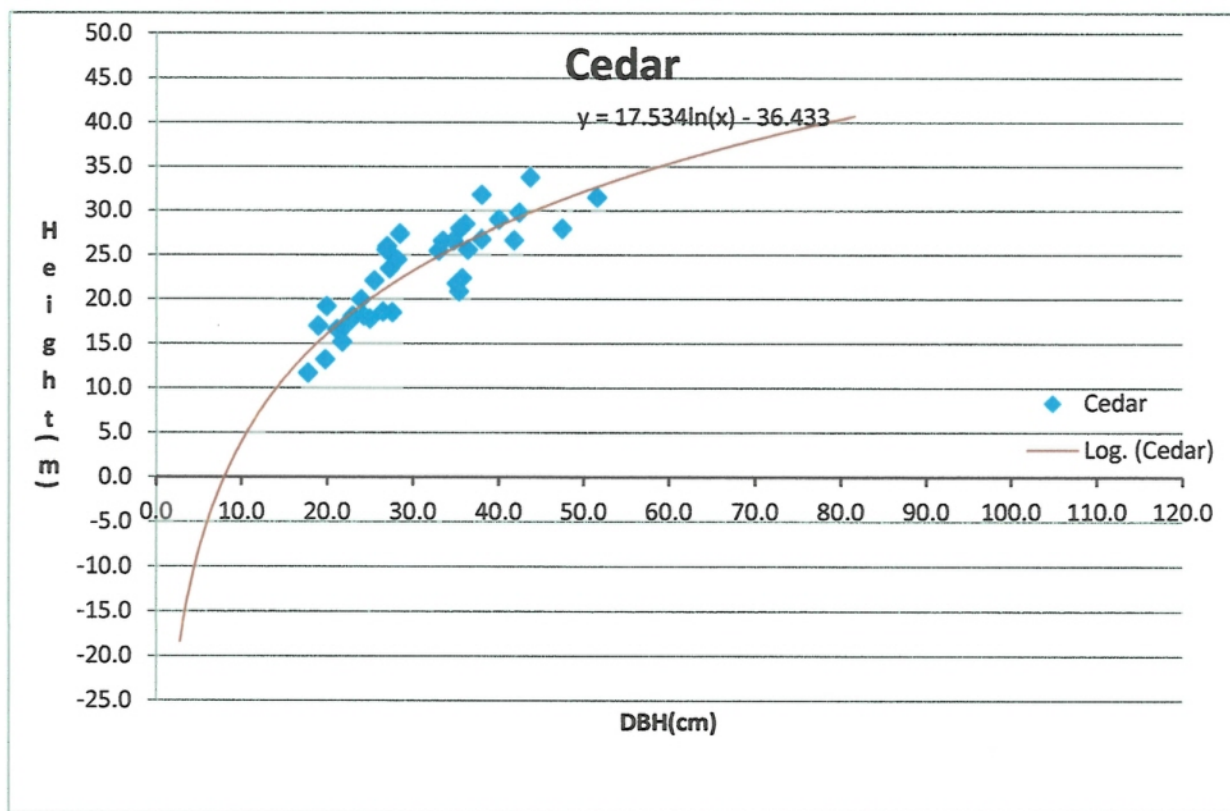
- includes individual tree data used to make the height / diameter curves**
- conversion of curve-derived values into table form – by 5cm diameter classes**

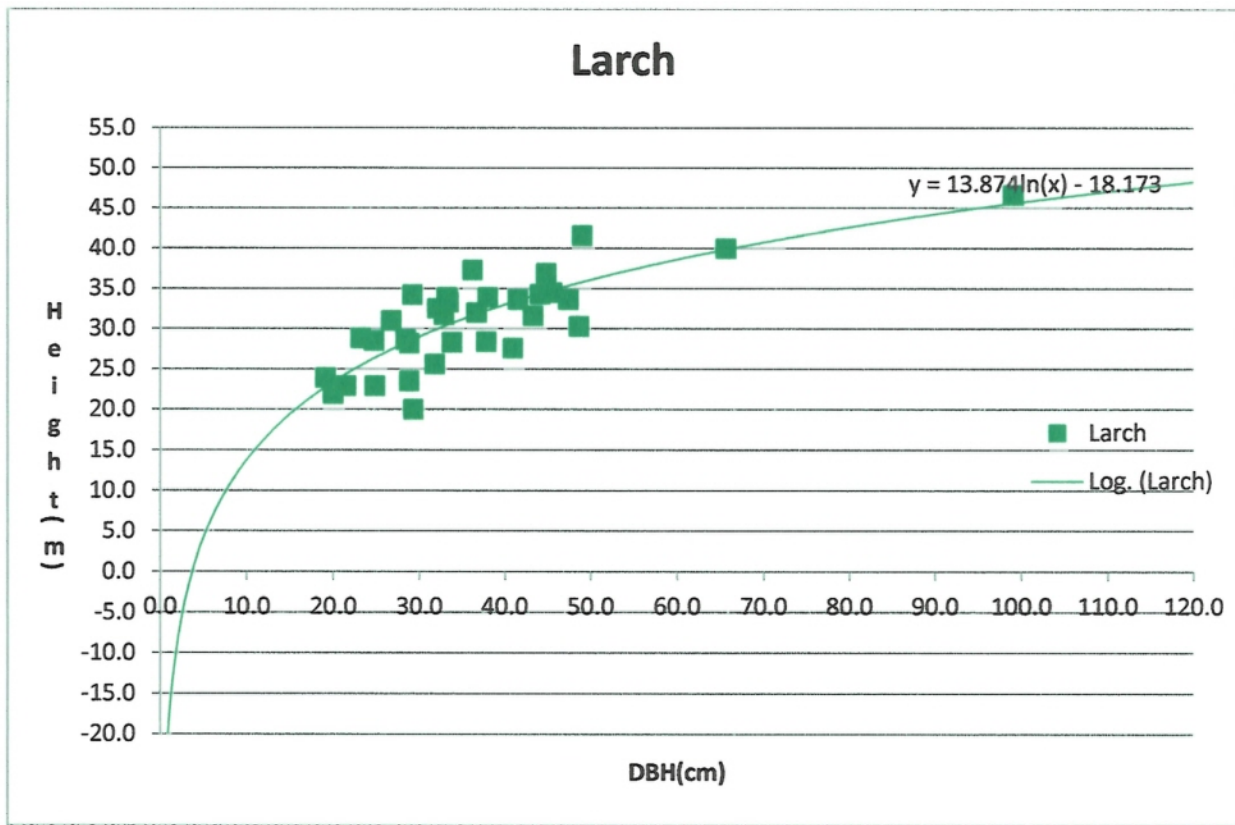
Woodlot Licence 2023- Area 1 - Height/Diameter Curves

Plot #	Cedar		Plot #	Fir		Plot #	Larch	
	Height	Diameter		Height	Diameter		Height	Diameter
20-2	18.5	27.6		21.3	29.4		30.3	48.6
27-2	33.8	43.7	17-1	34.2	48.2		23.5	28.8
	28.5	36.1		22.9	21.5		28.4	37.8
5	26.0	27.0	20-1	34.1	40.8		25.6	31.8
	25.6	26.9	20-2	36.6	42.7		20.0	29.3
	18.1	23.0		40.1	58.4	17-1	33.8	33.3
	20.0	24.0	21-2	20.7	19.2		33.9	38.0
28-1	23.5	27.3		29.4	29.4	20-1	34.3	44.1
29-1	13.2	19.8	21-3	22.9	17.8	20-2	40.0	65.6
30-1	18.1	24.3		23.5	21.7		34.2	29.2
	22.4	35.7	24-1	33.1	37.1	21-1	31.6	43.3
B	25.6	36.4		31.6	36.4	21-2	33.3	33.4
	29.0	40.0	24-2	28.5	29.1		31.0	26.7
	17.0	19.0	27-1	39.3	48.1	21-3	33.6	41.5
	26.6	33.5	27-2	31.6	36.0		28.6	28.4
	26.8	38.0	28-1	45.1	50.0	24-1	28.5	24.7
31-2	24.5	28.2		39.6	52.0	28-1	41.6	49.0
	17.8	25.0	29-1	41.4	52.6		46.6	99.1
	26.6	34.7		34.1	39.5	31-2	33.9	33.2
31-3	16.4	21.5	30-1	37.7	54.8		36.9	44.8
	19.2	20.0		41.6	64.9	31-3	37.3	36.2
	17.5	22.6	31-1	32.6	44.4	39-1	34.5	45.5
39-1	26.7	41.8	31-2	40.2	64.0	103-1	22.9	21.5
40-1	20.9	35.4		28.0	27.2		28.3	33.8
41-1	21.8	35.1	31-3	38.4	53.8	104-2	21.9	20.0
47-2	25.5	33.0		39.9	45.7		27.6	40.9
48-1	31.8	38.0	35-1	42.9	51.2	106-1	28.8	23.2
48-2	28.0	47.5	35-2	40.1	49.5		23.9	19.1
49-3	28.0	35.5	35-3	41.4	62.0	106-2	32.5	32.1
51-2	15.2	21.8	37-1	30.7	53.5	106-3	22.9	24.8
104-2	11.7	17.8	39-1	33.7	45.6	106-4	28.2	28.8
105-2	29.8	42.4	40-1	45.5	69.0		32.0	36.7
105-3	31.5	51.6	41-1	29.8	41.5	106-5	33.6	47.4
106-4	18.6	26.5	44-1	39.8	61.0	119-2	31.7	32.9
	18.1	24.3	44-2	28.2	38.5			
	16.6	21.2	45-1	34.5	45.1			
119-1	27.4	28.5	45-2	33.4	49.0			
119-2	22.1	25.5	46-1	29.7	32.2			
			46-2	35.5	58.2			
			46-3	36.8	53.5			
			46-4	28.9	40.5			
			47-1	35.0	48.0			

F

47-2	35.6	66.4
48-2	36.7	44.6
49-1	30.4	35.7
49-2	30.3	44.5
	33.9	48.5
49-3	38.3	44.2
50-1	35.3	56.7
50-2	34.1	45.6
	30.3	33.5
50-3	33.6	62.9
51-1	32.2	49.9
51-2	38.6	56.8
51-3	36.2	42.6
53-1	39.1	50.8
53-2	25.9	37.2
	22.2	20.4
54-1	25.7	41.3
54-2	25.9	34.8
	22.9	18.5
103-1	16.9	18.6
	16.1	21.5
104-1	23.6	27.2
104-2	21.8	27.0
104-3	28.9	35.3
105-1	37.0	43.6
105-2	35.2	43.3
105-3	41.0	54.5
106-4	26.8	22.9
	32.1	40.7
107-1	42.6	78.2
113-1	22.0	28.5
114-1	19.1	26.0
114-2	29.8	29.2
115-1	35.6	45.1
115-2	24.8	31.5
115-3	27.7	28.0
116-1	29.8	38.5
116-2	34.1	46.1
116-3	31.5	35.1
117-2	36.0	28.4
118-1	27.4	38.1
118-2	33.3	42.0
118-3	25.8	29.2
119-1	35.3	45.5
120-1	29.3	38.9





DBH	h^t Cedar	h^t Fir	h^t Larch
5	-8.2	-2.7	4.2
10	3.9	9.0	13.8
15	11.0	15.8	19.4
20	16.1	20.7	23.4
25	20.0	24.4	26.5
30	23.2	27.5	29.0
35	25.9	30.1	31.2
40	28.2	32.4	33.0
45	30.3	34.4	34.6
50	32.2	36.1	36.1
55	33.8	37.7	37.4
60	35.4	39.2	38.6
65	36.8	40.6	39.7
70	38.1	41.8	40.8
75	39.3	43.0	41.7
80	40.4	44.1	42.6
85	41.5	45.1	43.5
90	42.5	46.1	44.3
95	43.4	47.0	45.0
100	44.3	47.8	45.7
105	45.2	48.7	46.4
110	46.0	49.4	47.0
115	46.8	50.2	47.7
120	47.5	50.9	48.2
125	48.2	51.6	48.8
130	48.9	52.3	49.4
135	49.6	52.9	49.9
140	50.2	53.5	50.4
145	50.8	54.1	50.9

$$y = 17.534\ln(x) - 36.433$$

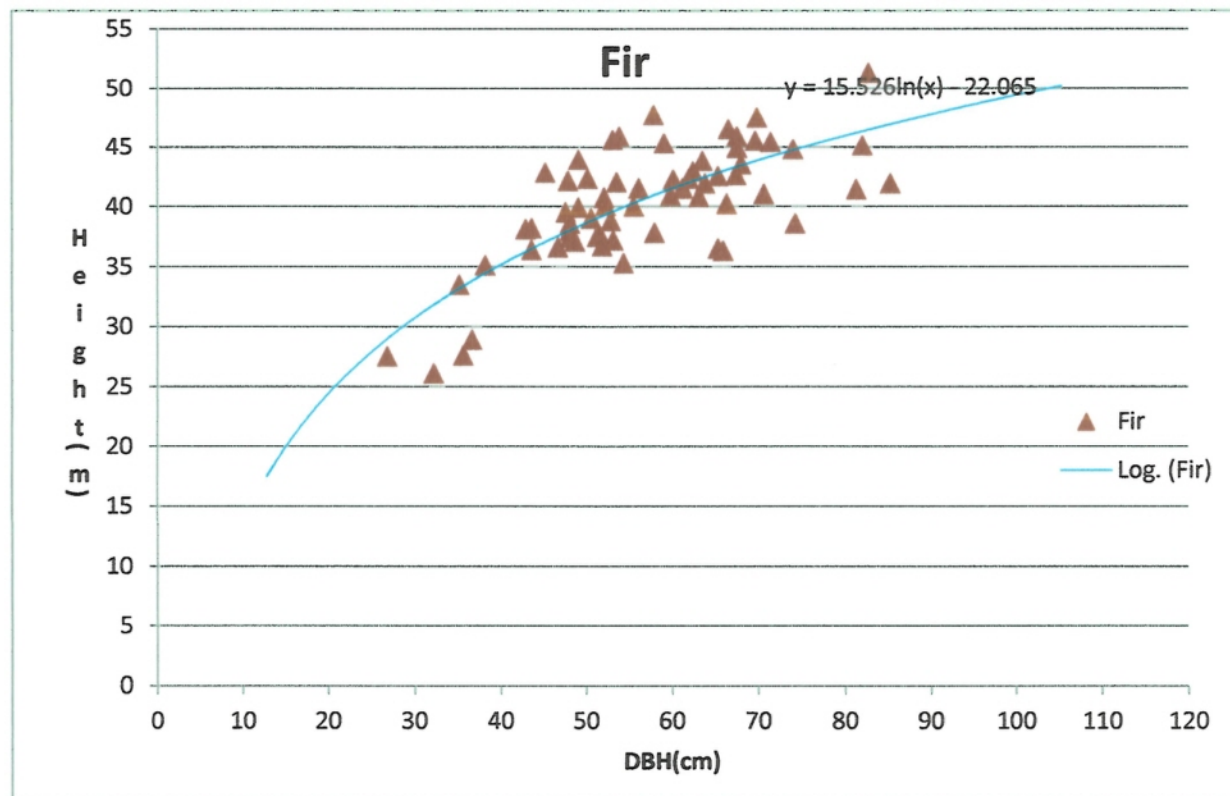
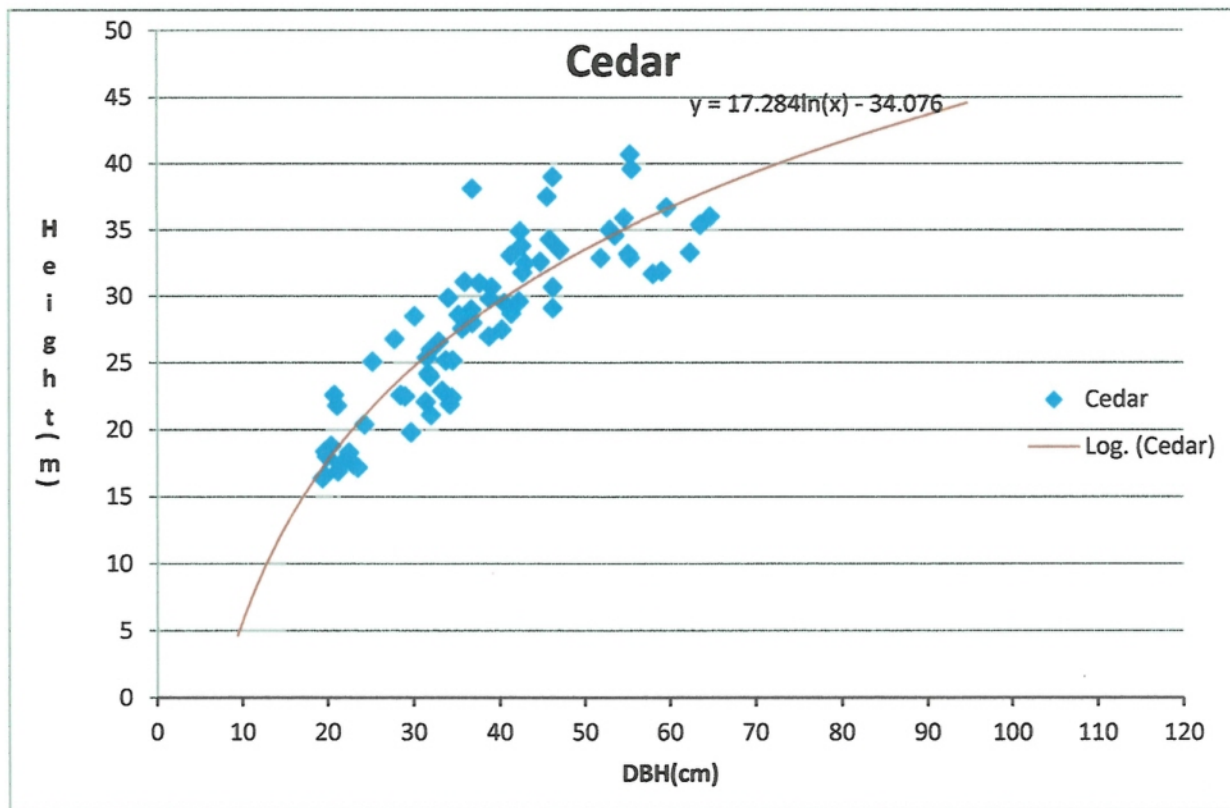
$$y = 16.874\ln(x) - 29.879$$

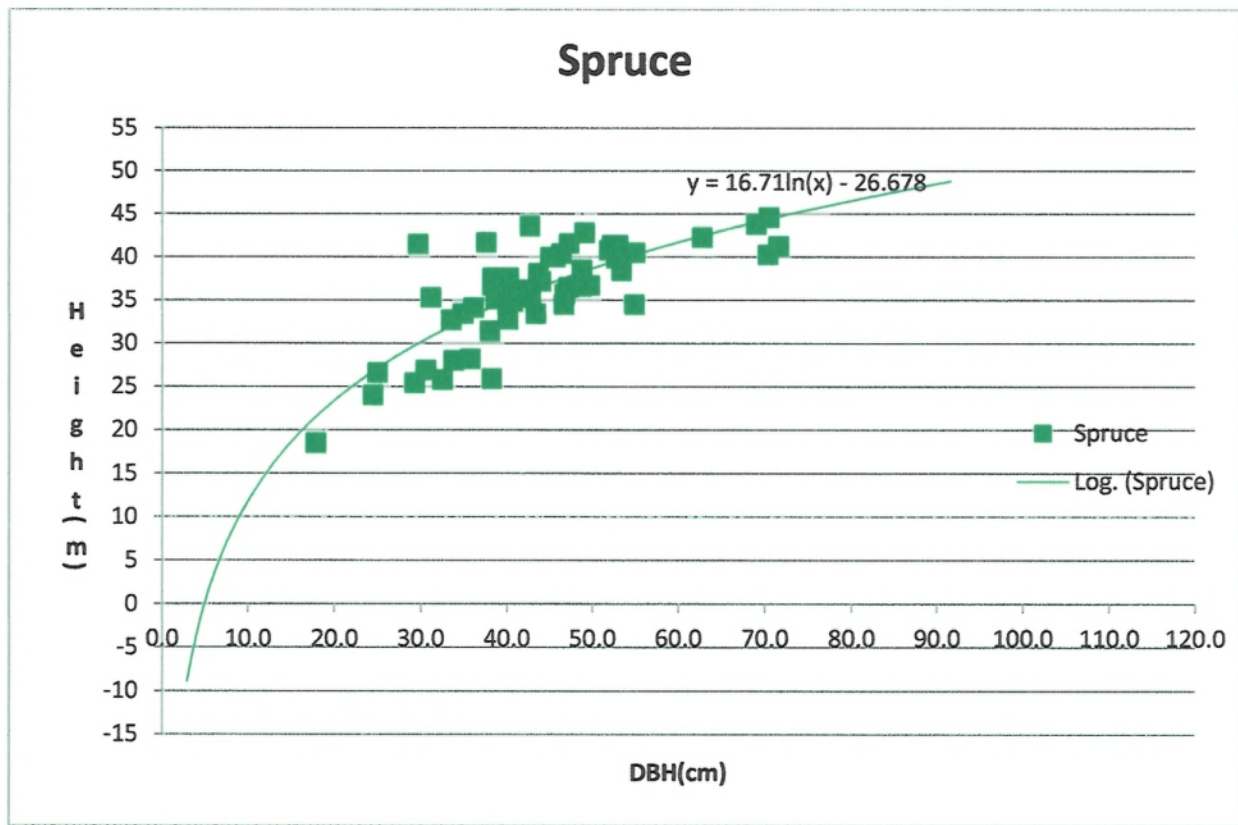
$$y = 13.874\ln(x) - 18.173$$

Woodlot Licence 2023- Area 2 - Height/Diameter Curves

Plot #	Height	Cedar Diameter			Fir		Spruce	
56-2	37.5	45.5	56-1	37.5	51.2	56-2	38.5	48.8
56-3	39.6	55.5	57-1	42.8	45.1	59-1	40.0	45.1
58-1	35.4	63.5	60-1	41.9	85.2	59-2	36.7	49.7
58-2	39.0	46.2	60-3	33.5	35.1	60-1	37.2	39.1
60-1	29.0	36.7		38.6	48.0		37.6	38.3
	25.2	33.7	60-4	43.8	63.5		41.4	52.3
60-2	22.4	34.4		42.5	65.3		25.9	38.2
	16.9	21.2		38.6	74.2		32.7	33.5
60-3	19.8	29.7	61-1	38.2	43.5	60-2	36.5	47.2
	17.4	23.0	61-2	28.9	36.6		35.3	31.2
60-4	18.3	22.5	62-1	43.9	49.0		41.4	53.0
	31.7	58.0	62-2	36.7	51.8		24.0	24.5
	24.0	31.9	63-1	45.6	53.0		40.5	55.0
	27.5	40.2	63-2	45.9	53.8	60-3	25.4	29.3
	22.6	28.5	64-1	38.8	52.8		28.2	35.7
61-1	25.1	25.2	64-2	42.0	53.5		33.4	43.4
63-1	36.0	64.7	65-4	44.9	67.5		42.3	62.8
63-2	38.1	36.8	66-1	42.1	47.8	65-1	43.8	69.0
65-1	31.9	59.0	66-2	51.3	82.7	65-2	37.2	44.0
65-2	33.8	42.5	66-3	41.5	61.2	67-1	32.8	40.1
65-3	29.5	40.5	67-1	40.0	55.5	67-2	34.5	54.9
65-4	30.7	39.0	67-2	37.4	48.0	67-4	34.8	40.7
66-2	40.7	55.3	67-3	38.0	48.0	68-1	40.0	45.7
66-3	32.6	44.7	71-1	40.9	59.8	68-2	34.1	36.1
67-3	30.7	46.2	71-2	39.0	50.5		18.5	17.9
67-4	33.3	62.3	77-1	41.0	70.6		38.1	43.7
	32.9	51.8		41.4	81.3	68-3	44.6	70.5
68-1	21.9	34.2	78-1	40.8	63.1		33.4	34.9
68-2	16.6	19.7	78-2	42.6	67.4		41.3	71.6
	17.2	23.5	78-3	40.2	66.3	71-1	38.4	53.4
	29.1	46.2	89-1	37.5	51.6	71-3	35.7	46.8
68-3	29.8	38.8	91-1	37.8	57.9	76-1	35.3	42.8
	28.7	41.3	91-2	41.9	63.8		28.0	33.8
	22.5	29.0	91-3	47.5	69.8		26.6	25.0
	16.4	19.4	92-2	39.5	47.5		26.9	30.6
71-1	28.5	36.5	92-3	40.1	52.2		25.8	32.5
71-2	28.5	30.1	92-4	40.7	52.0		31.4	38.0
71-3	32.9	55.3	92-5	42.3	61.9	76-2	36.2	41.5
76-1	21.8	21.1	93-2	47.7	57.8	77-1	41.6	47.3
	20.4	24.3	93-3	42.9	62.4		39.9	52.8
	26.8	27.8	93-4	45.4	71.4		40.8	52.0
	18.8	20.4	94-1	46.5	66.5		37.6	40.2

	18.4	19.7	94-2	44.8	74.0		36.6	48.7
77-1	22.9	33.3	94-3	45.9	67.5	77-2	40.4	46.4
	34.3	45.8	94-4	45.5	69.6	80-1	40.3	70.4
	22.6	20.8	95-1	26.1	32.2	87-1	43.6	42.7
	26.6	32.9	95-2	37.1	48.6	87-2	35.2	40.7
	25.4	31.5	96-1	36.4	43.5	87-3	35.1	38.7
	18.0	19.9	96-2	35.1	38.1	92-1	41.7	37.6
	36.7	59.6	96-3	36.6	46.6	92-6	42.8	49.1
	34.9	42.3	97-1	43.5	68.0	93-1	34.5	46.7
	33.5	47.0	97-2	27.6	35.6	93-2	41.5	29.7
	32.5	42.9	97-3	45.3	59.0	93-3	36.7	38.3
	22.1	31.4	98-1	45.1	82.0			
	24.2	31.7	98-2	42.2	60.1			
78-1	31.0	37.6	99-2	42.3	50.1			
78-3	26.0	32.0	99-3	41.5	56.1			
89-1	28.6	35.2	100-1	39.9	49.0			
91-1	21.1	32.0	101-1	36.3	65.9			
91-2	29.6	42.2		35.3	54.3			
91-3	35.0	52.9		36.5	65.3			
92-1	27.0	38.7		37.2	53.1			
92-2	31.8	42.6	101-2	27.5	26.8			
92-5	29.9	34.0	102-1	38.1	42.8			
92-6	33.1	41.2						
93-4	28.0	36.8						
97-1	35.9	54.6						
97-2	27.6	35.6						
97-3	25.2	34.5						
98-1	34.6	53.5						
99-1	33.2	55.1						
99-3	31.1	35.9						
101-1	17.4	21.5						





DBH	ht Cedar	ht Fir	ht Spruce
5	-6.3	2.9	0.2
10	5.7	13.7	11.8
15	12.7	20.0	18.6
20	17.7	24.4	23.4
25	21.6	27.9	27.1
30	24.7	30.7	30.2
35	27.4	33.1	32.7
40	29.7	35.2	35.0
45	31.7	37.0	36.9
50	33.5	38.7	38.7
55	35.2	40.2	40.3
60	36.7	41.5	41.7
65	38.1	42.7	43.1
70	39.4	43.9	44.3
75	40.5	45.0	45.5
80	41.7	46.0	46.5
85	42.7	46.9	47.6
90	43.7	47.8	48.5
95	44.6	48.6	49.4
100	45.5	49.4	50.3
105	46.4	50.2	51.1
110	47.2	50.9	51.9
115	47.9	51.6	52.6
120	48.7	52.3	53.3
125	49.4	52.9	54.0
130	50.1	53.5	54.7
135	50.7	54.1	55.3
140	51.3	54.7	55.9
145	51.9	55.2	56.5

$$y = 17.284\ln(x) - 34.076$$

$$y = 15.526\ln(x) - 22.065$$

$$y = 16.71\ln(x) - 26.678$$

Appendix V

Summary of Compiled Volumes from Cruise Data on Schedule B Lands & Maps Of Schedule A and B Lands Showing Plot Locations

-includes summary pages of the cruise compilation of the Schedule B land timber volumes by polygon (full compilation information submitted via attachment to email)

-Inventory maps showing the plot locations on maps of the Schedule A & B Lands

SUMMARY OF CRUISE DATA

FIZ G - WET BELT FIR MINIMUM DBH 17.5/12.5 CM GRADES - N/A
PSYU SPALLUMCHEEN STUMP HEIGHT 30.0 CM NET FACTORS - DWB
REGION/DISTRICT S.INTERIOR/OKN-SHUSWP TOP DIAMETER 10.0 CM (M)C,H - MOF LOCAL NF
M.O.F. APPRAISAL INFORMATION LOG LENGTH 5.0 M OTHERS - MOF ZONAL NF

MERCHANTABLE TIMBER = 704.30 Ha.
Imm. not sampled = 202.20
Mat. not sampled = 10.90
OTHER NON-MERCH AREA = 263.50
TOTAL AREA = 1180.90

SPECIES:		ALL	CON	F	C	H	B	S	PL	L	AC	E	AT
GROSS	M3	378778	370802	149638	100805	1908	853	67896	5134	44568	769	6547	660
NET TOTAL	M3	352252	347510	144620	88378	1815	822	65581	4527	41767	119	4172	451
NET LIVE	M3	350235	345755	143994	88287	1815	822	64543	4527	41767	119	3910	451
NET DEAD POTENTIAL	M3	2017	1755	626	91			1038				262	
NET M3	%	100.0	99.0	41.0	25.0	1.0		19.0	1.0	12.0		1.0	
IMMATURE M3	%	67.0	68.0	52.0	87.0	100.0	100.0	88.0	64.0	49.0		6.0	
NET M3/HA		500.1	493.4	205.3	125.5	2.6	1.2	93.1	6.4	59.3	0.2	5.9	0.6
DECAY /GROSS	%	3	3	1	6	2	2	1	9	3	57	23	21
WASTE /GROSS	%	1	1		2				1	1	24	9	7
BREAKAGE /GROSS	%	3	3	2	5	3	2	2	2	3	4	4	4
CULL /GROSS	%	7	6	3	12	5	4	3	12	6	85	36	32
TREES/HA (LIVE&DP)		638.3	623.9	166.0	261.8	2.8	1.9	98.1	21.8	71.5	0.6	13.1	0.7
DBH, AVG (LIVE&DP) CM		32.1	32.1	38.1	28.5	32.1	26.4	31.8	21.1	33.0	45.0	29.0	38.6
SNAGS (USELESS)													
DBH, AVG (USELESS) CM													
USELESS/(LIVE&DEAD) %													
HEIGHT, AVG MERCH M		26.9	27.0	30.7	21.2	25.6	23.4	27.5	17.7	27.4	26.1	22.9	24.5
HEIGHT, AVG TOTAL M		32.5	32.6	36.1	27.0	32.2	30.6	33.5	23.6	33.3	32.6	31.9	30.1
GROSS /TREE M3		0.84	0.84	1.28	0.55	0.97	0.65	0.98	0.33	0.89	1.72	0.71	1.35
NET /TREE M3		0.78	0.79	1.24	0.48	0.92	0.62	0.95	0.29	0.83	0.26	0.45	0.92
5m LOGS /TREE		3.92	3.92	4.80	3.00	4.76	4.25	4.54	3.18	4.58	4.64	3.99	5.00
NET / 5M LOG M3		0.21	0.21	0.26	0.17	0.20	0.15	0.21	0.09	0.19	0.07	0.12	0.20
5M LOGS /NET M3		4.86	4.81	3.80	5.94	5.00	6.69	4.69	10.54	5.35	13.90	8.32	5.12
LUMBER AND CHIPS													
NET MERCH-STUD LOG %		19	19	20			42	28	79	33			
NET MERCH-SMALL LOG %		65	64	50	79	81	100	67	98	75	54	88	65
NET MERCH-LARGE LOG %		35	36	50	21	19		33	2	25	46	12	35
AVG LRF BD FT/M3				214	165	186	191	205	172	200	155	174	189
AVERAGE SLOPE %		0											
SAM. ERROR (95% CI) %		3.7	3.8	9.8	11.4	94.3	132.7	13.8	36.1	17.3	68.4	47.6	115.5
MEA. POTENTIAL TREES		2034	(12.3 TREES/PLOT)										
NO. OF PLOTS, PRISM		166	(0.2 PLOTS/HA)										

19%

Appendix V

CLAYMORE .P- -040 [v2011.00]
 REPORT DATE 26-JAN-2012 (14:24:44)

Boomer Enterprises Ltd.

CRUISED BY TRP Forestry Consultants
 COMPILATION CLAYMORE CONSULTING

CRUISE SUMMARY

COMPILATION SPECIFICATIONS

ALL MATURITIES PL
 MINIMUM DBH CM 17.5 12.5
 TOP DIAMETER CM 10.0
 STUMP HEIGHT CM 30.0

NET BASIS DECAY LOSS FACTOR TABLES
 WASTE LOSS FACTOR TABLES
 BREAKAGE LOSS FACTOR TABLES

LOG LENGTH STANDARD = 5.0 M MIN. = 2.5 M MAX. = 7.5 M
 GRADES MOF STATUTORY - COMPUTERIZED

TENURE AND LOCATION

FOREST INVENTORY
 WOODLOT LICENCE 2023
 LOCATION
 NUMBER OF SETTINGS

FOREST INVENTORY ZONE G - WET BELT FIR
 PSYU (LOSS FACTORS) SPALLUMCHEEN

FOREST REGION S.INTERIOR
 FOREST DISTRICT OKN-SHUSWP
 TIMBER SUPPLY AREA OKANAGAN

LOSS FACTOR TABLES	F	C	H	B	S	Y	PW	PL	PY	L	AC	D	MB	E	AT	PA
MATURE MOF ZONE G	113	294			512			812		1010	1111			1411	1510	
OLDER IMM. ZONE G	104	204	304	406	504			803		1002				1402		
YOUNGER IMM. ZONE G		203														

COMPILATION DESCRIPTION

CRUISE SUMMARY

STAND #	DESCRIPTION	HECTARES	NET M3 / HA.	TOTAL NET M3	TOTAL PLOTS	STANDARD DEVIATION	% COEFF. VARIATION	S A M P L I N G E R R O R % SE(T=1)	SE(CI=95%)	MEAS.
	ALL	704.30	500.1	352,253	166		3.4	1.9	3.7	3.7
1	Poly #1	12.70	186.8	2,372	3	84.17	45.1	26.0	112.0	112.0
2	Poly #2	4.80	193.8	930	2	109.53	56.5	40.0	507.6	507.6
17	Poly #17	4.50	490.4	2,207	1	0.00	0.0	0.0	0.0	0.0
20	Poly #20	11.20	322.8	3,616	2	80.03	24.8	17.5	222.7	222.7
21	Poly #21	14.30	357.8	5,116	3	112.80	31.5	18.2	78.3	78.3
24	Poly #24	8.90	291.7	2,596	2	12.39	4.2	3.0	38.2	38.2
27	Poly #27	6.20	576.3	3,573	2	175.39	30.4	21.5	273.4	273.4
28	Poly #28	2.40	692.9	1,663	1	0.00	0.0	0.0	0.0	0.0
29	Poly #29	1.90	634.0	1,205	1	0.00	0.0	0.0	0.0	0.0
30	Poly #30	3.30	354.4	1,170	1	0.00	0.0	0.0	0.0	0.0
31	Poly #31	11.20	380.0	4,256	3	180.15	47.4	27.4	117.8	117.8
35	Poly #35	9.30	632.2	5,879	3	190.29	30.1	17.4	74.8	74.8
37	Poly #37	2.20	234.0	515	1	0.00	0.0	0.0	0.0	0.0
39	Poly #39	1.80	291.3	524	1	0.00	0.0	0.0	0.0	0.0
40	Poly #40	3.20	460.4	1,473	1	0.00	0.0	0.0	0.0	0.0

CRUISE SUMMARY

CRUISE SUMMARY cont.

STAND #	DESCRIPTION	HECTARES	NET M3 / HA.	TOTAL NET M3	TOTAL PLOTS	STANDARD DEVIATION	% COEFF. VARIATION	S A M P L I N G E R R O R %		
								SE(T=1)	SE(CI=95%)	MEAS.
41	Poly #41	3.30	426.6	1,408	1	0.00	0.0	0.0	0.0	0.0
44	Poly #44	7.60	466.6	3,546	2	65.32	14.0	9.9	125.8	125.8
45	Poly #45	7.20	447.0	3,219	2	125.05	28.0	19.8	251.3	251.3
46	Poly #46	22.20	472.0	10,478	4	50.78	10.8	5.4	17.1	17.1
47	Poly #47	4.00	445.1	1,780	2	132.22	29.7	21.0	266.9	266.9
48	Poly #48	5.20	304.0	1,581	2	18.29	6.0	4.3	54.0	54.0
49	Poly #49	9.20	514.9	4,737	3	91.29	17.7	10.2	44.0	44.0
50	Poly #50	12.90	578.0	7,456	3	87.30	15.1	8.7	37.5	37.5
51	Poly #51	7.80	300.4	2,343	3	214.07	71.3	41.1	177.0	177.0
53	Poly #53	4.90	415.2	2,035	2	330.18	79.5	56.2	714.5	714.5
54	Poly #54	4.70	236.4	1,111	2	0.14	0.1	0.0	0.5	0.5
56	Poly #56	18.00	663.1	11,937	3	174.44	26.3	15.2	65.3	65.3
57	Poly #57	4.80	880.5	4,226	1	0.00	0.0	0.0	0.0	0.0
58	Poly #58	5.60	555.5	3,111	2	20.95	3.8	2.7	33.9	33.9
59	Poly #59	11.40	463.5	5,284	2	119.11	25.7	18.2	230.9	230.9
60	Poly #60	22.70	787.2	17,869	4	70.41	8.9	4.5	14.2	14.2
61	Poly #61	5.00	599.4	2,997	2	104.99	17.5	12.4	157.4	157.4
62	Poly #62	7.60	742.3	5,641	2	334.77	45.1	31.9	405.2	405.2
63	Poly #63	6.70	938.1	6,285	2	68.66	7.3	5.2	65.8	65.8
64	Poly #64	7.70	846.3	6,517	2	241.00	28.5	20.1	255.8	255.8
65	Poly #65	17.70	491.1	8,692	4	22.75	4.6	2.3	7.4	7.4
66	Poly #66	12.90	554.0	7,146	3	126.49	22.8	13.2	56.7	56.7
67	Poly #67	19.70	578.9	11,405	4	56.70	9.8	4.9	15.6	15.6
68	Poly #68	14.70	616.6	9,064	3	101.49	16.5	9.5	40.9	40.9
71	Poly #71	7.70	636.4	4,901	3	33.62	5.3	3.0	13.1	13.1
76	Poly #76	15.40	358.7	5,524	2	42.70	11.9	8.4	106.9	106.9
77	Poly #77	10.40	717.0	7,456	2	98.26	13.7	9.7	123.1	123.1
78	Poly #78	14.10	439.7	6,200	3	146.65	33.4	19.3	82.9	82.9
80	Poly #80	3.90	410.8	1,602	1	0.00	0.0	0.0	0.0	0.0
87	Poly #87	14.90	637.3	9,496	3	41.69	6.5	3.8	16.3	16.3
89	Poly #89	2.90	455.7	1,322	1	0.00	0.0	0.0	0.0	0.0
91	Poly #91	14.00	656.5	9,191	3	151.27	23.0	13.3	57.2	57.2
92	Poly #92	42.40	576.0	24,422	6	86.08	14.9	6.1	15.7	15.7
93	Poly #93	20.50	599.5	12,289	4	137.68	23.0	11.5	36.5	36.5
94	Poly #94	20.20	570.5	11,523	4	100.47	17.6	8.8	28.0	28.0
95	Poly #95	5.40	407.9	2,202	2	7.73	1.9	1.3	17.0	17.0
96	Poly #96	14.80	634.3	9,388	3	175.16	27.6	15.9	68.6	68.6
97	Poly #97	14.00	592.6	8,296	3	148.59	25.1	14.5	62.3	62.3
98	Poly #98	8.40	714.0	5,998	2	124.99	17.5	12.4	157.3	157.3
99	Poly #99	11.70	654.4	7,656	3	183.00	28.0	16.1	69.5	69.5
100	Poly #100	2.80	616.9	1,727	1	0.00	0.0	0.0	0.0	0.0
101	Poly #101	7.20	392.4	2,826	2	82.05	20.9	14.8	187.8	187.8
102	Poly #102	1.90	639.6	1,215	1	0.00	0.0	0.0	0.0	0.0
103	Poly #103	3.80	229.6	873	1	0.00	0.0	0.0	0.0	0.0
104	Poly #104	11.40	301.9	3,442	3	101.07	33.5	19.3	83.2	83.2
105	Poly #105	18.10	513.2	9,289	3	113.29	22.1	12.7	54.8	54.8
106	Poly #106	37.70	244.1	9,201	5	133.62	54.7	24.5	68.0	68.0
107	Poly #107	1.80	335.7	604	1	0.00	0.0	0.0	0.0	0.0
113	Poly #113	3.40	250.5	852	1	0.00	0.0	0.0	0.0	0.0
114	Poly #114	8.40	206.6	1,735	2	29.01	14.0	9.9	126.2	126.2
115	Poly #115	9.60	465.3	4,467	3	105.67	22.7	13.1	56.4	56.4

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COMPILATION CLAYMORE CONSULTING

CRUISE SUMMARY

CRUISE SUMMARY cont.

STAND #	DESCRIPTION	HECTARES	NET M3 / HA.	TOTAL NET M3	TOTAL PLOTS	STANDARD DEVIATION	% COEFF. VARIATION	S A M P L I N G E R R O R %		
								SE (T=1)	SE (CI=95%)	MEAS.
116	Poly #116	11.90	370.7	4,411	3	75.30	20.3	11.7	50.5	50.5
117	Poly #117	4.60	231.2	1,063	2	18.31	7.9	5.6	71.2	71.2
118	Poly #118	10.10	323.6	3,268	3	41.11	12.7	7.3	31.6	31.6
119	Poly #119	8.00	299.9	2,399	2	8.96	3.0	2.1	26.8	26.8
120	Poly #120	1.50	297.9	447	1	0.00	0.0	0.0	0.0	0.0

Appendix VI

Polygon Netdowns for WTPs (includes Riparian Areas) and Roads Used in the 'WOODLOT' Program

-table showing area deductions for WTPs and Roads by polygon

-table also shows future road deductions

APPENDIX VI - Polygon Net Downs for WTPs, Riparian Areas and Roads on WL 2023 Polygons

Polygon	Gross Area	Deducts. for Exist. Rds	Deducts. for WTPs	Net Area	Deducts. for Future Rds.
1	12.7	0.0	12.7	0.0	0.0
2	4.6	0.0	4.6	0.0	0.0
3	20.9	0.0	0.0	20.9	0.0
4	1.5	0.0	1.5	0.0	0.0
5	1.2	0.0	1.2	0.0	0.0
6	13.7	0.0	0.0	13.7	0.0
7	1.0	0.0	1.0	0.0	0.0
8	0.6	0.0	0.6	0.0	0.0
9	18.3	0.4	0.0	17.9	0.0
10	0.4	0.0	0.4	0.0	0.0
11	0.3	0.0	0.3	0.0	0.0
12	1.0	0.0	1.0	0.0	0.0
13	0.8	0.0	0.8	0.0	0.0
14	0.6	0.1	0.0	0.0	0.0
15	24.4	0.3	0.3	23.8	0.0
16	0.8	0.0	0.8	0.0	0.0
17	4.5	0.3	0.5	3.7	0.0
18	18.9	0.5	0.0	18.4	0.0
19	4.6	0.0	4.6	0.0	0.0
20	11.2	0.0	0.0	11.2	0.5
21	14.3	0.5	0.2	13.6	0.0
22	2.0	0.2	0.0	1.8	0.0
23	0.5	0.1	0.0	0.4	0.0
24	8.9	0.2	0.3	8.4	0.0
25	4.7	0.0	0.0	4.7	0.0
26	17.6	0.6	0.0	17.0	0.1
27	6.2	0.0	0.8	5.4	0.2
28	2.4	0.0	0.0	2.4	0.2
29	1.9	0.0	0.0	1.9	0.0
30	3.3	0.2	0.2	2.9	0.0
31	11.2	0.4	0.5	10.3	0.0
32	1.7	0.0	0.0	1.7	0.0
33	22.1	1.0	0.0	21.1	0.0
34	6.5	0.2	0.0	6.3	0.0
35	9.2	0.0	0.0	9.2	0.0
36	5.8	0.0	0.0	5.8	0.0
37	2.2	0.0	2.2	0.0	0.0
38	26.9	0.6	0.0	26.3	0.0
39	1.8	0.0	0.0	1.8	0.0
40	3.2	0.0	0.0	3.2	0.0
41	3.3	0.0	0.0	3.3	0.0
42	2.9	0.0	0.0	2.9	0.0
43	19.0	0.8	0.0	18.2	0.0
44	7.6	0.0	2.0	5.6	0.0
45	7.2	0.0	0.0	7.2	0.2
46	22.2	0.0	1.4	20.8	1.3
47	4.0	0.0	0.0	4.0	0.0
48	5.2	0.0	0.0	5.2	0.0
49	9.2	0.0	0.0	9.2	0.3
50	12.9	0.2	0.8	11.9	0.1

Column 387.9 6.6 38.7 342.1 2.9

Polygon	Gross Area	Deducts. for Exist. Rds.	Deducts. for WTPs	Net Area	Deducts. for Future Rds.
51	7.8	0.4	0.0	7.4	0.0
52	1.3	0.2	0.0	1.1	0.0
53	4.9	0.3	0.0	4.6	0.0
54	4.7	0.2	0.0	4.5	0.0
55	6.2	0.2	0.0	6.0	0.0
56	18.0	0.0	9.0	9.0	0.3
57	4.8	0.0	0.0	4.8	0.0
58	5.6	0.0	1.3	4.3	0.0
59	11.4	0.4	0.4	10.6	0.1
60	22.7	0.0	0.0	22.7	0.4
61	5.0	0.0	0.0	5.0	0.4
62	7.6	0.0	0.0	7.6	0.1
63	6.7	0.0	0.0	6.7	0.5
64	7.7	0.0	0.0	7.7	0.3
65	17.7	0.0	8.0	9.7	0.5
66	12.9	0.0	0.0	12.9	0.5
67	19.7	0.0	0.3	19.4	0.9
68	14.7	0.0	1.3	13.4	0.0
69	19.8	0.3	0.0	19.5	0.0
70	9.4	0.1	0.0	9.3	0.3
71	7.7	0.0	0.3	7.4	0.0
72	5.1	0.2	0.0	4.9	0.4
73	6.3	0.3	0.0	6.0	0.0
74	8.1	0.1	0.0	8.0	0.0
75	18.2	0.1	1.1	17.0	0.0
76	15.4	1.1	0.3	14.0	0.0
77	10.4	0.0	0.7	9.7	0.0
78	14.1	0.5	0.0	13.6	0.0
79	2.4	0.0	2.4	0.0	0.0
80	3.9	0.0	3.9	0.0	0.0
81	3.1	0.0	0.0	3.1	0.0
82	0.4	0.0	0.4	0.0	0.0
83	4.9	0.0	0.0	4.9	0.0
84	1.7	0.0	0.0	1.7	0.0
85	21.3	0.8	0.4	20.1	0.0
86	7.5	0.2	0.0	7.3	0.0
87	14.9	0.3	3.0	11.6	0.0
88	13.6	0.4	0.0	13.2	0.0
89	2.9	0.0	0.0	2.9	0.0
90	0.9	0.0	0.0	0.9	0.0
91	14.0	0.4	0.3	13.3	0.0
92	42.4	1.0	0.6	40.8	0.8
93	20.5	0.0	0.3	20.2	0.0
94	20.2	0.1	0.3	19.8	0.1
95	5.4	0.0	0.0	5.4	0.1
96	14.8	0.0	0.0	14.8	0.9
97	14.0	0.0	0.3	13.7	0.4
98	8.4	0.0	0.0	8.4	0.4
99	11.7	0.0	1.5	10.2	0.1
100	2.8	0.0	0.0	2.8	0.0

Column 525.6 7.6 36.1 481.9 7.5

Polygon	Gross Area	Deducts. for Exist. Rds.	Deducts. for WTPs	Net Area	Deducts. for Future Rds.
101	7.2	0.2	0.0	7.0	0.0
102	1.9	0.0	0.0	1.9	0.2
103	3.8	0.0	1.0	2.8	0.0
104	11.4	0.0	0.6	10.8	0.0
105	18.1	0.0	0.0	18.1	0.0
106	37.7	2.3	1.2	34.2	0.6
107	1.8	0.0	1.8	0.0	0.0
108	60.2	2.1	0.0	58.1	0.0
109	37.2	1.4	0.0	35.8	0.0
110	2.9	0.0	2.9	0.0	0.0
111	3.1	0.0	0.0	3.1	0.0
112	24.3	1.6	0.0	22.7	0.1
113	3.4	0.0	3.4	0.0	0.0
114	8.4	0.0	8.4	0.0	0.0
115	9.6	0.0	2.3	7.3	0.3
116	11.9	0.0	0.0	11.9	0.2
117	4.6	0.0	3.1	1.5	0.0
118	10.1	0.0	0.7	9.4	0.0
119	8.0	0.0	0.0	8.0	0.7
120	1.5	0.0	0.0	1.5	0.0

Column 267.1 7.6 25.4 234.1 2.1
 Totals 1180.6 21.8 100.2 1058.1 12.5
 % of Area in WTP 8.49

Schedule 'A' Land

201	2.6	0.3	0.1	2.2	0.0
202	19.3	0.6	0.4	18.3	0.0
203	12.0	0.1	0.8	11.1	0.0
204	13.5	0.8	0.0	12.7	0.0
205	11.9	0.4	1.1	10.4	0.0
206	20.6	0.3	1.0	19.3	0.0
207	8.1	0.1	0.8	7.2	0.0
208	5.6	0.0	1.1	4.5	0.0
209	1.1	0.0	1.1	0.0	0.0

94.7 2.6 6.4 85.7 0.0
 % of Area in WTP 6.76

Total WL 1275.3 24.4 106.6 1143.8 12.5
 % WTP-WL 8.36

1180.6	Total Area for Bonneau (Schedule 'B' Land)	1058.1
94.7	Total Area for Farm (Schedule 'A' Land)	85.7
1275.3	Total Area -WL 2023	1143.8

Appendix VII

Calculations of Revised Volume Additive Factors (VAF) Used in the 'WOODLOT for Windows' Program – by Polygon

Comparison of Mature Volumes Calculated in the 'WOODLOT' Program to Volumes in the VRI and/or Updated Field Sampling and Calculations to Derive Ratios to Revise the VAFs

- this information is discussed in Section 4.1 on page 5 of the main report, above

adjacent polygon data used

APPENDIX VII - Calculations of Revised VAF's Used on Mature Polygons Contributing to the LTSY in the WOODLOT Program.

WL Polygon ID	Area (ha)	VRI/Field Plot Vol(m3/ha)	Initial WL for W vol/ha (VAF=1)	% change in Vol (m3/ha) = new VAF	New vol/ha after vaf adjust	Total Vol/poly - VRI	Initial WL for W total vol/poly (VAF=1)	Calculated Final WL for W Vol/poly
3	20.9		405		451			
6	13.7		325		313			
9	17.9		359		385			
15	23.8		369		413			
17	3.7	490	392.3	1.249	491	1813	1452	1817
18	18.4		347		366			
20	11.2	323	371.9	0.869	324	3618	4165	3624
21	13.6	358	358.2	0.999	358	4869	4872	4872
22	1.8		379		423			
23	0.4		379		423			
24	8.4	292	327.7	0.891	292	2453	2753	2449
25	4.7		452		489			
26	1.7		414		414			
27	5.4	576	481.2	1.197	577	3110	2598	3118
28	2.4	693	503.9	1.375	695	1663	1209	1668
29	1.9	634	485.2	1.307	636	1205	922	1208
30	2.9	354	251.8	1.406	355	1027	730	1029
31	10.3	380	381.6	0.996	382			
32	1.7		441		504			
33	21.1		421		468			
34	6.3		478		490			
35	9.2	632	484.2	1.361	631	5814	4271	5809
36	5.8		471		497			
38	26.3		422		457			
39	1.8	291	391.4	0.743	291	524	705	524
40	3.2	460	467.7	0.984	468	1472	1497	1467
41	3.3	427	170.3	2.507	427	1409	562	1410
42	2.9		417		454			
43	18.2		574		574			
44	5.6	467	397.3	1.175	469	2615	2225	2625
45	7.2	447	386.5	1.157	448	3218	2783	3228
46	20.8	472	362	1.304	471	9818	7530	9791
47	4	445	447.9	0.994	443	1780	1792	1774
48	5.2	304	341.3	0.891	304	1581	1775	1580
49	9.2	515	415.6	1.239	515	4738	3824	4740
50	11.9	578	395.9	1.460	578	6878	4711	6878
51	7.4	300	432	0.894	298	2220	3197	2206
52	1.1		288		321			
53	4.6	415	380.6	1.090	415	1909	1751	1908
54	4.5	236	227.6	1.037	235	1062	1024	1059
55	6		342		381			
56	9	663	362.7	1.828	664	5967	3264	5972
57	4.8	881	535.7	1.645	879	4229	2571	4218
58	4.3	555	366.5	1.514	553	2387	1576	2379
59	10.6	464	487.4	0.952	463	4918	5166	4909
60	22.7	787	436.7	1.802	786	17865	9913	17842
61	5	599	375.7	1.594	597	2995	1879	2987
62	7.6	742	449.1	1.652	741	5639	3413	5632
63	6.7	938	454.3	2.065	936	6285	3044	6269
64	7.7	846	408.1	2.073	845	6514	3142	6504
65	9.7	519	344.6	1.506	520	5034	3343	5047
66	12.9	554	466	1.215	552	7147	5882	7118
67	19.4	579	417.1	1.388	580	11233	8092	11248

WL Polygon ID	Area (ha)	VRI/Field Plot Vol(m3/ha)	Initial WL for W vol/ha (VAF=1)	% change in Vol (m3/ha) = new VAF	New vol/ha after vaf adjust	Total Vol/poly - VRI	Initial WL for W total vol/poly (VAF=1)	Calculated Final WL for W Vol/poly
68	13.4	617	494	1.249	618	8268	6620	8276
69	19.5		467		518			
70	9.3		474		474			
71	7.4	636	426.7	1.491	636	4706	3158	4705
72	4.9		474		474			
73	6		458		504			
74	8		451		487			
75	17		427		457			
76	14	359	450.9	0.796	361	5026	6313	5050
77	9.7	717	419.7	1.708	718	6955	4071	6962
78	13.6	440	307.1	1.433	439	5984	4177	5973
81	3.1		454		485			
83	4.9		462		491			
84	1.7		468		504			
85	20.1		409		470			
86	7.3		479		520			
87	11.6	637	456.6	1.395	639	7389	5297	7415
88	13.2		472		514			
89	2.9	456	242.3	1.882	456	1322	703	1321
90	0.9		426		482			
91	13.3	658	346.2	1.895	654	8725	4604	8701
92	40.8	576	395.6	1.456	578	23501	16140	23562
93	20.2	600	503.7	1.191	599	12120	10175	12108
94	19.8	571	521.7	1.094	569	11306	10330	11256
95	5.4	408	349.7	1.167	409	2203	1888	2209
96	14.8	634	385.7	1.644	633	9383	5708	9361
97	13.7	593	285.7	2.076	594	8124	3914	8141
98	8.4	714	495.2	1.442	713	5998	4160	5988
99	10.2	654	415.1	1.576	656	6671	4234	6689
100	2.8	617	506.5	1.218	618	1728	1418	1730
101	7	392	389.3	1.007	393	2744	2725	2752
102	1.9	640	461.3	1.387	641	1216	876	1218
103	2.8	229	268.8	0.852	229	641	753	641
104	10.8	302	220.9	1.367	302	3262	2386	3264
105	18.1	513	420.5	1.220	513	9265	7611	9283
106	34.2	244	332.1	0.735	242	8345	11358	8290
108	58.1		436		482			
109	35.8		358		358			
111	3.1		314		350			
112	22.7		415		415			
115	7.3	465	342.4	1.358	466	3395	2500	3399
116	11.9	371	330.9	1.121	371	4415	3938	4410
117	1.5	231	383.8	0.602	230	347	576	345
118	9.4	324	302.2	1.072	323	3046	2841	3040
119	8	300	165.3	1.815	301	2400	1322	2406
120	1.5	317	259.3	1.223	318	476	389	477
201	1.7	467	326.3	1.431	467	794	555	793
202	17.6	673	285.8	2.355	673	11845	5030	11845
203	10.8		676		685			
204	12.2		440		466			
205	10.2		642		557			
206	18.5		494.8		333			
207	7.2		672		600			
208	4.5		377.1		353			

509 406 1.3396 489 326,625 243,398 326,517

Comparison with Totko
 Works prov. harvested on u/c.
 A18672 Vol ha Vol/ha
 CP 345 35478 ÷ 86.8 = 409 m³/ha.
 326 34350 ÷ 90.1 = 603 m³/ha.
 512 17665 ÷ 37.2 = 475 m³/ha.
 107,493 ÷ 213.9 = 502.5 m³/ha.

Those totals include immature.
 - No 1 sure how adjustment made on imm. polygons.

adjacent see Appendix III used.

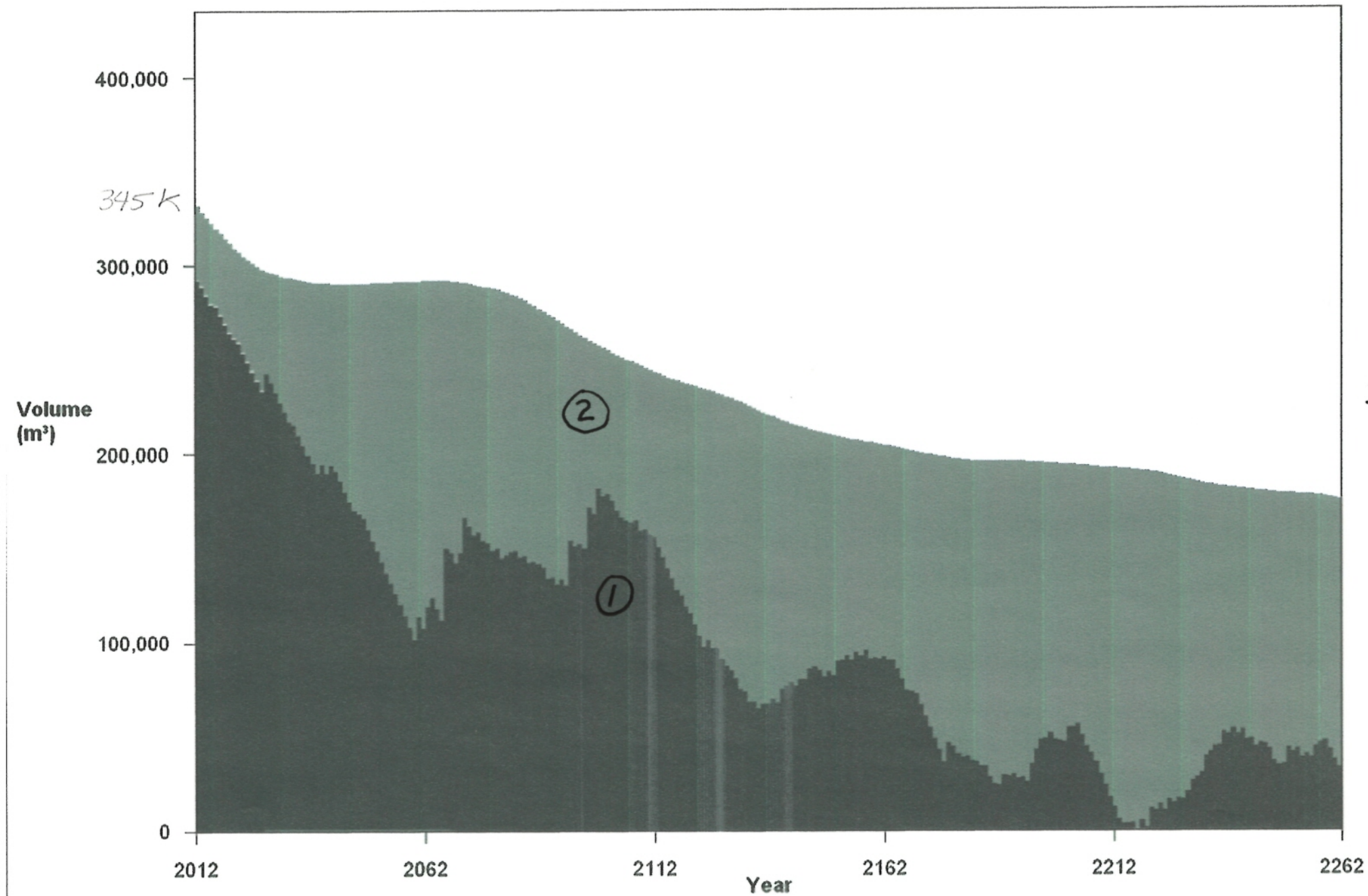
Appendix VIII

Graph of Total Standing Inventory Over Time – from the ‘WOODLOT’ program

-graph shows standing inventory over time as projected using current recommended scenario

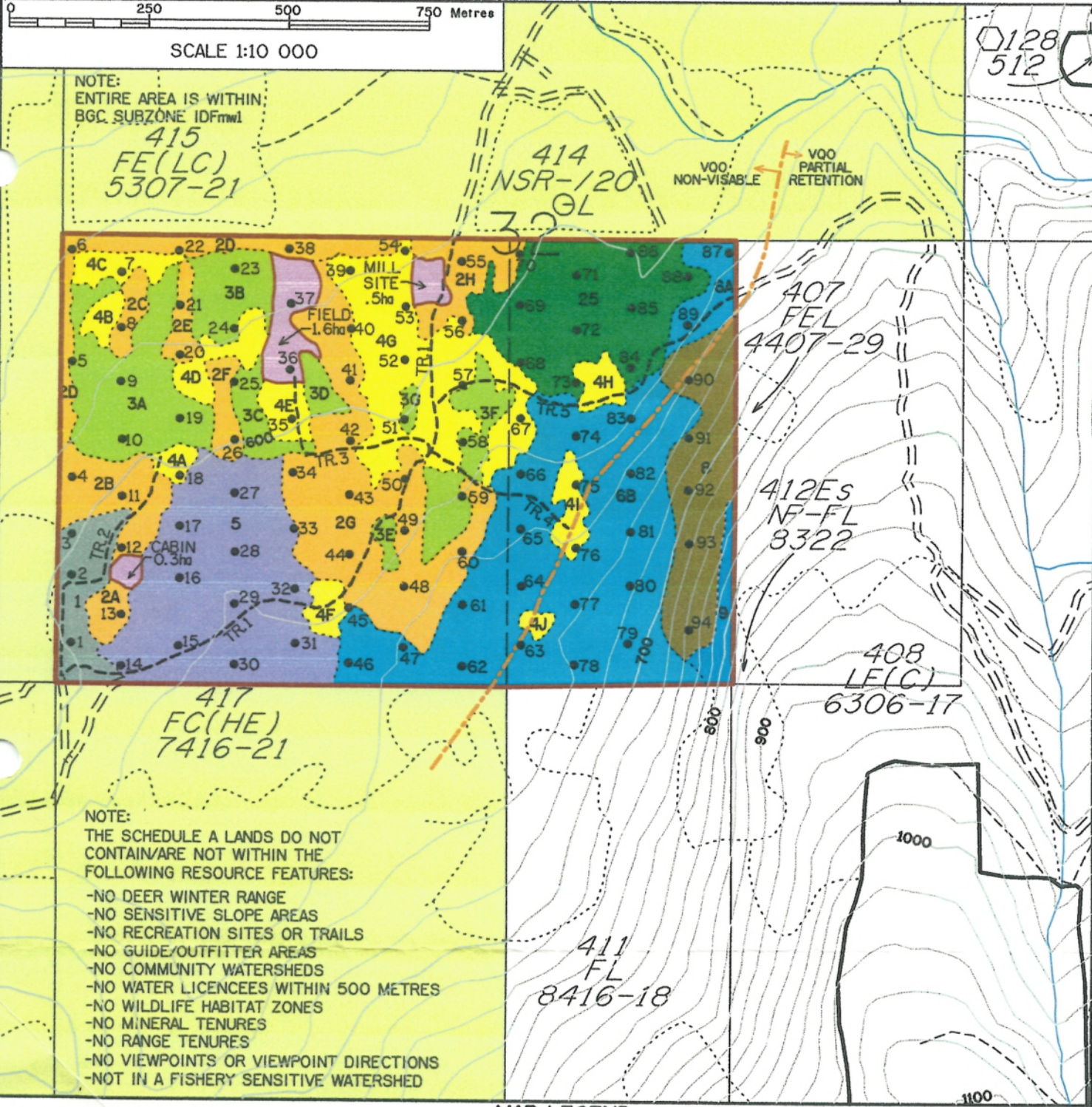
Standing Volume / Year

Appendix VIII



WOODLOT LICENCE PLAN INVENTORY MAP SCHEDULE "A" LAND - WL 2023
OVERVIEW MAP (SW 1/4 and W 1/2 OF SE 1/4 SECTION 32 TP44 NEAR LUMBY)
WITH CRUISE / REGENERATION PLOT LOCATIONS

LOCATION: SHUSWAP FALLS			SCALE: 1:10,000		
LICENCEE/OPERATOR: BOOMER ENTERPRISES LTD.					
MAP REF: 82L037		LAT / LONG: N 50° 20' 34" W 178° 46' 35"		BGC ZONE: IDFmwl	
UTM GRID: ZONE: 11		EAST: 373589		NORTH: 5578260	
MAP LAYUP: TRP FORESTRY CONSULTANTS INC.			REGION: 38		COMPARTMENT: 26
DRAWN BY: B. NERLING			DATE: MARCH 27 2012		
TIMBER TYPE INFORMATION					
TYPE	AREA (ha)	COLOUR	POLYGON NUMBERS	DESCRIPTION	STATUS
1	2.6		1	CH 2105-16	SRIFG-LAYER 2)
2	19.3		2A,2B,2C,2D,2E,2F,2G,2H	FCLEp 5316-24	SRIFG-LAYER 1)
3	12.0		3A,3B,3C,3D,3E,3F,3G	FCLS) 2102-27	SRIFG-LAYER 2,3)
4	13.5		4A,4B,4C,4D,4E,4F,4G,4H,4I,4J	NSR-22	NSR
5	11.9		5	NSR-26	NSR
6	20.6		6A,6B	C(F) 2206-22	SRIFG-LAYER 2)
7	8.1		7	CFPW 2203-15	SRIFG-LAYER 2)
8	5.6		8	FCI 4314-23	SRIFG-LAYER 1)
9	1.1		9	ROCK	
	94.7ha		NET TOTAL AREA CONTRIBUTION TO WOODLOT LICENCE		
	2.4		AREA EXCLUSIONS - CABIN SITE, MILL SITE, HAY FIELD		
	97.1ha		TOTAL PRIVATE LAND AREA		



BLOCK BOUNDARY	—	STREAM CROSSING	—X—	FENCE LINE	—X—X—X—	REF STATION	⊙
TIMBER TYPE LINES	- - - - -	STREAM	—	DROP OFF	U U U U	RIPARIAN CLASSIFICATION	S6
EXISTING LOGGING ROADS	= = = = =	NON CLASSIFIED DRAINAGE (NCD)	—	ROCK	#	WATER INTAKE	Ⓢ
BLADED ROADS/TRAIL (Existing)	- - - - -	WET / SWAMP	—	CORNER	Δ		
SCENIC AREA BOUNDARY	- - - - -	CONTOUR LINES (20m Intervals)	—				
PRIVATE LAND	—	CRUISE/REGENERATION PLOTS	•				

WOODLOT LICENCE W.L. 2023 INVENTORY MAP WITH CRUISE PLOTS

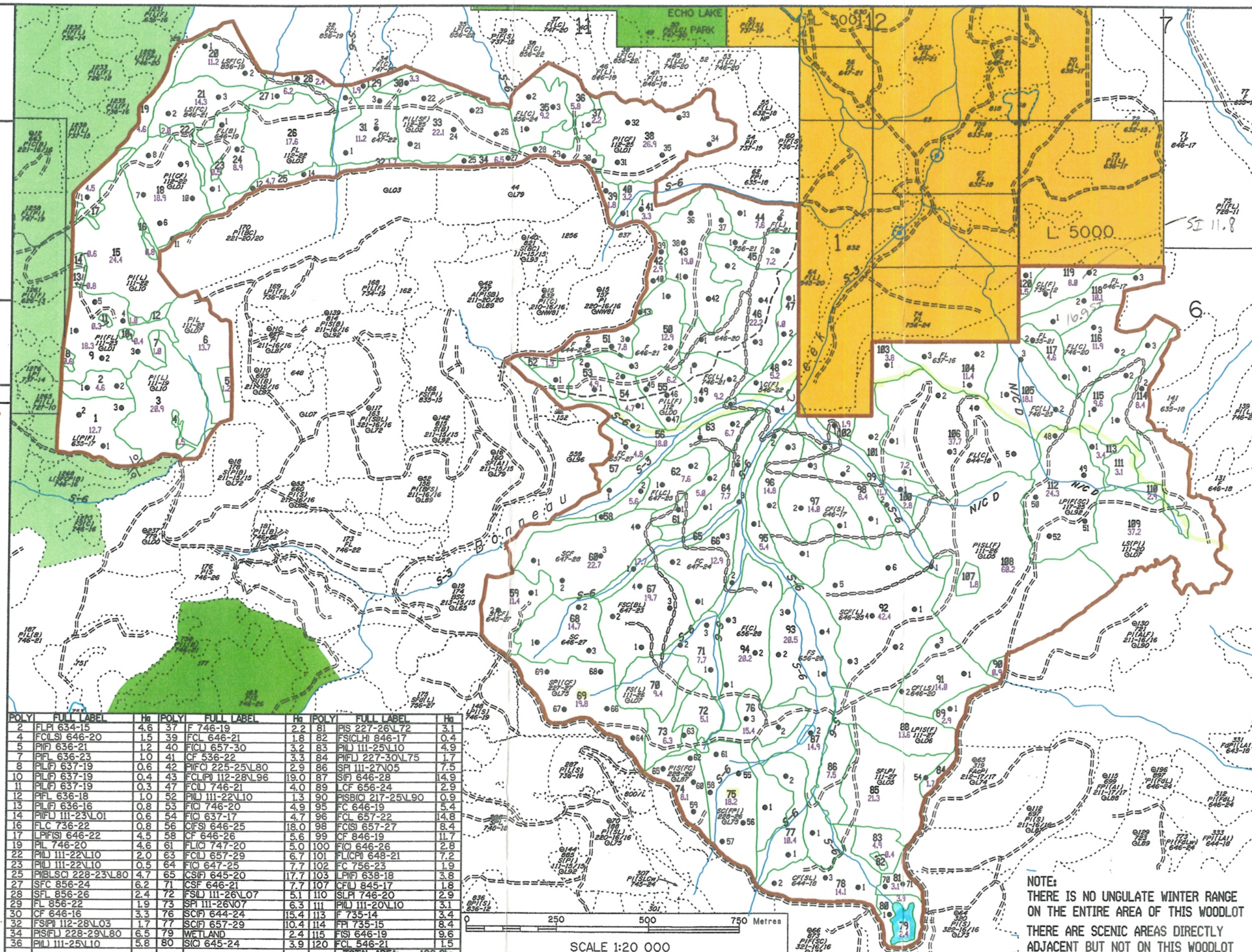
LOCATION: BONNEAU CREEK
W.L. SIZE: SCH.B - 1180.8ha
SCALE: 1:20,000
DATE: MARCH 17, 2012
CLIENT: BOOMER ENTERPRISES LTD.
MAP REFERENCE: 82L017
PHOTO NO: 30BCC07002 NO.41-45
TSA: OKANAGAN
DISTRICT: OKANAGAN-SHUSWAP
EAST: 378530
NORTH: 5559659

DIGITAL MAPPING BY: DIGITAL VENTURES

LAYOUT AND MAPPING BY:
TRP FORESTRY CONSULTANTS INC.
2108-23RD AVENUE, VERNON, B.C. V1T1J4
PHONE (250) 542-0681

LEGEND

- WOODLOT BOUNDARY
- BLOCK BOUNDARY
- EXISTING ROADS
- PROPOSED ROADS
- EXISTING TRAIL
- FENCES/CATTLEGUARDS
- STREAMS (Classification)
- CONTOUR LINES
- TIMBER TYPOLINES
- TIMBER TYPOLINES (Inside WL Bdy)
- BGC SUBZONE BOUNDARIES
- SENSITIVE WATERSHED BDY
- CRUISE PLOTS
- POLYGON NUMBER
- SCENIC AREAS
- OGMA AREAS
- SENSITIVE SOIL AREAS
- PRIVATE LAND
- OTHER WOODLOT AREAS
- PARKS/PROTECTED AREAS
- WATER INTAKES-IRRIGATION & DOMESTIC



POLY	FULL LABEL	Ha	POLY	FULL LABEL	Ha	POLY	FULL LABEL	Ha
2	FLPI 634-15	4.6	37	F 746-19	2.2	81	PIS 227-26V172	3.1
4	FCL(S) 646-20	1.5	39	FCL 646-21	1.8	82	FS(CLI) 846-17	0.4
5	PI(F) 636-21	1.2	40	F(CLI) 657-30	3.2	83	PI(L) 111-25V110	4.9
7	PI(F) 636-23	1.0	41	CF 536-22	3.3	84	PI(F) 227-30V175	1.7
8	PI(F) 637-19	0.6	42	PI(F) 225-25V180	2.9	86	SP 111-27V05	7.5
10	PI(F) 637-19	0.4	43	FCLPI 112-28V196	19.0	87	SIF 646-28	14.9
11	PI(F) 637-19	0.3	47	FCL 746-21	4.0	89	LCF 656-24	2.9
12	PI(F) 636-18	1.0	52	PI(L) 111-22V110	1.3	90	PIS(B) 217-25V190	0.9
13	PI(F) 636-16	0.8	53	F(CI) 746-20	4.9	95	FC 646-19	5.4
14	PI(F) 111-23V101	0.6	54	F(CI) 637-17	4.7	96	FCL 657-22	14.8
16	FLC 736-22	0.8	56	CF(S) 646-25	18.0	98	FC(S) 657-27	8.4
17	LP(F) 646-22	4.5	58	CF 646-26	5.6	99	CF 846-19	11.7
19	PI 746-20	4.6	61	FL(CI) 747-20	5.0	100	F(CI) 646-26	2.8
22	PI(L) 111-22V110	2.0	63	F(CLI) 657-29	6.7	101	FL(CPI) 648-21	7.2
23	PI(L) 111-22V110	0.5	64	F(CI) 647-25	7.7	102	FC 756-23	1.9
25	PI(B) 228-23V180	4.7	65	CS(F) 645-20	17.7	103	LP(F) 638-18	3.8
27	SFC 856-24	6.2	71	CSF 646-21	7.7	107	CF(L) 845-17	1.8
28	SFL 856-26	2.4	72	FS(L) 111-26V107	5.1	110	SLPI 746-20	2.9
29	FL 856-22	1.9	73	SP 111-26V07	6.3	111	PI(L) 111-20V110	3.1
30	CF 646-16	3.3	76	SC(F) 644-24	15.4	113	F 735-14	3.4
32	FSPI 112-28V103	1.7	77	SC(F) 657-29	10.4	114	FPI 735-15	8.4
34	PIS(F) 228-29V180	6.5	79	WETLAND	2.4	115	F(S) 646-19	9.6
36	PI(L) 111-25V110	5.8	80	SIC 645-24	3.9	120	FCL 546-21	1.5
				TOTAL AREA:		180.8ha		

NOTE:
THERE IS NO UNGULATE WINTER RANGE
ON THE ENTIRE AREA OF THIS WOODLOT
THERE ARE SCENIC AREAS DIRECTLY
ADJACENT BUT NOT ON THIS WOODLOT

Woodlot Licence # 2023

Management Plan

Licensee:

**Boomer Enterprises Ltd.
Vernon, B.C.**

Okanagan Shuswap Forest District

Prepared by:

Dirk Pereboom R.P.F.

Submitted by:

**Boomer Enterprises Ltd.
Vernon, B.C.**

Signature

November 12, 2009

Date

Approved by:

**Dave Hails
District Manager,
Okanagan Shuswap Forest District**

Signature

Date

RECEIVED

DEC - 2 2009

NOV 13/09

MINISTRY OF FORESTS
OKANAGAN SHUSWAP FOREST DISTRICT

ID# 3897

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1.0 Licensee's Goals

The goal of the licensee is to manage the Crown and private lands on this woodlot licence for the continuous and sustainable production of commercially valued trees following the principles of integrated resource management. It is the intention of the licensee to co-operate fully with government agencies regarding environmental or cultural concerns and protection. The licensee will cease operations if, while carrying out activities, the licensee is notified or becomes aware of possible environmental and/or cultural concerns as they relate to these continued activities on the woodlot licence.

In the short term, the licensee plans to re-inventory the timber on the public land portion of this woodlot licence after requesting and receiving approval of a cut control limit exemption to undertake operations to salvage the majority of the lodgepole pine growing in concentrated areas to minimize the losses due to current infestation of Mountain Pine Beetle and salvage extensive fringe blown down timber along the edges of previous clearcut blocks.

2.0 Licensee's Statement of Commitments

The licensee is committed to:

- operate on this woodlot licence in accordance with the Forest Act and Forest and Range Practices Act and associated legislations and policies.
- restock, within 10 years, all the private land areas that are not sufficiently restocked on the date of entering into this woodlot licence agreement.

3.0 Resource Inventories

3.1 Timber Resources Inventory

The current forest inventory information for the Crown Land portion (Schedule 'B' Lands) is that determined by the MoFR prior to the advertising and issuance of this new woodlot licence. This inventory will be updated within 3 years when it is expected that harvest operations to salvage the lodgepole pine and blowdown will be completed. The annual allowable cut (AAC) derived from the current analysis of the timber inventory by the MoF will be accepted in the short term until salvage operations and recalculation of the AAC are completed. Updated inventory and information will be provided in the next revision to the Management Plan expected within 3 years.

The (re)inventory on the private land portion (Schedule 'A' Land) of this woodlot licence will be completed during the same time period as the re-inventory on the public land portion. For purposes of determining a current AAC for the private land portion, we are assuming an AAC of 0 m³ for the short term. In addition the inventory will be further amended when the 'not sufficiently restocked' areas on the private land are planted with preferred / acceptable species as per Section 2.0, above.

A summary of the current inventory for the 'Schedule B' land is not attached as the MoF already has this information. This inventory was used to prepare the current AAC calculation.

3.2 Terrain Stability Inventory

There are no known terrain stability assessments on the area of this woodlot licence. There are two noted areas with slopes in excess of 60%. These areas are shown on the accompanying overview map of the Schedule B portion of this woodlot licence. No operations are planned for these areas in the next five years. Future operations on these areas will be addressed in the current Woodlot Licence Plan for this woodlot licence.

3.3 Fish Stream Classification Inventory

There is currently one stream (Bonneau Creek main stem) which has previously been classified as a class S-3 fish stream. Ground review of this stream location suggests that this is not a fish stream. An independent assessment of this stream by a qualified biologist will be carried out within the next three years. The updated information will be included in an amended Management Plan expected within three years. Until this independent assessment is completed, Bonneau Creek will be treated as if it is a class S-3 stream.

3.4 Archeological Overview Assessment

There are no known archeological overview assessments (AOA) over the majority of the area of this woodlot licence. However, there are large areas of previous clearcuts throughout this woodlot licence. In discussion with personnel of the major licensee that harvested these clearcuts, AOAs were done but there were no indicators to warrant additional 'Archeological Impact Assessments' or 'Preliminary Field Assessments' for the areas of these blocks. A full AOA is expected to be done during the summer of 2010.

4.0 Timber Utilization Standards

The Ministry of Forests timber utilization standards will be used on this woodlot licence.

Where, from time to time, there are economically viable markets for products produced from timber under the minimum utilization specifications, this timber may also be utilized when planned harvesting activities are ongoing. Examples of this additional utilization could include post and rail products as well as roundwood pulp logs below minimum MoF utilization specifications.

5.0 Proposed Allowable Annual Cut

The Proposed Allowable Annual Cut (AAC) for this woodlot licence over the short term is comprised of:

Schedule A lands:	0 m ³ per year
Schedule B lands:	3254 m ³ per year

A Volume Calculation report for the Schedule 'A' and Schedule 'B' lands using the 'WOODLOT for Windows' program will be attached in the Appendix after a re-inventory is completed within 3 years.

APPENDIX I

**The Management Plan Maps: I-A - Schedule A Land
I-B - Schedule B Land**

APPENDIX II

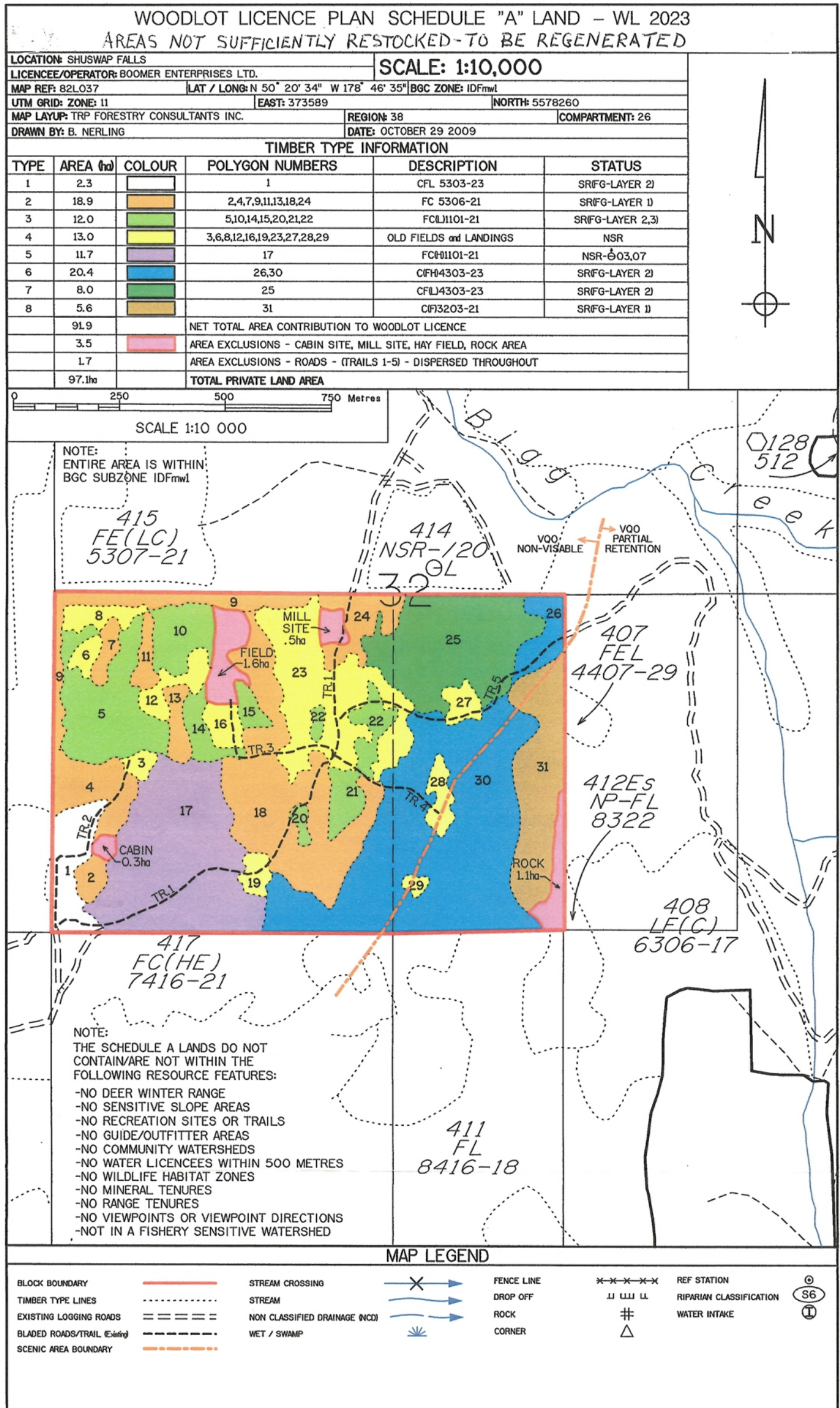
Regeneration Stocking Standards and Regeneration Date for the Woodlot Licence Private Land; Table and Map

On the area specified on the accompanying map, the Woodlot Licence holder will establish regeneration meeting the stocking standards indicated below, on or before the regeneration date and will maintain this stocking after this date until relieved in writing from the District Manager.

The regeneration date for all areas listed below is December 31, 2019

Area Identification		Biogeoclimatic Ecosystem Classification		Preferred Species	Acceptable Species	MITD	TSS	MSSpa	MSSp
SU (polygon number on attached map)	Net Area	Subzone Variant	Site Series			(m)	(sph)	(sph)	(sph)
3,6,8,12,16,19,23,27,28,29	13.0ha	IDFmw1	01	Fd,Lw,Pl,	Py,Sx,Cw	2	1200	700	600
17	11.7ha	IDFmw1	01	Fd,Lw,Pl,	Py,Sx,Cw	2	1200	700	600

Regen date = Regeneration Date: Indicate the day, month and year to complete regeneration of the area.	MITD = Minimum distance between well spaced trees of the preferred and acceptable species	
TSS = Target Stocking Standard (sph = well spaced trees / ha)	MSSpa = Minimum Stocking Standard of well spaced trees of preferred and acceptable species	MSSp = Minimum Stocking Standard of well spaced trees of preferred species



WOODLOT LICENCE PLAN OVERVIEW MAP W.L. 2023

LOCATION: BONNEAU CREEK
W.L. SIZE: SCH.B - 1182.2ha

SCALE: 1:20,000
DATE: OCTOBER 29, 2009
CLIENT: BOOMER ENTERPRISES LTD.
MAP REFERENCE: 82L017
PHOTO NO: 30BCC07002 NO.41-45
TSA: OKANAGAN
DISTRICT: OKANAGAN-SHUSWAP
EAST: 378530
NORTH: 5559659

DIGITAL MAPPING BY: DIGITAL VENTURES

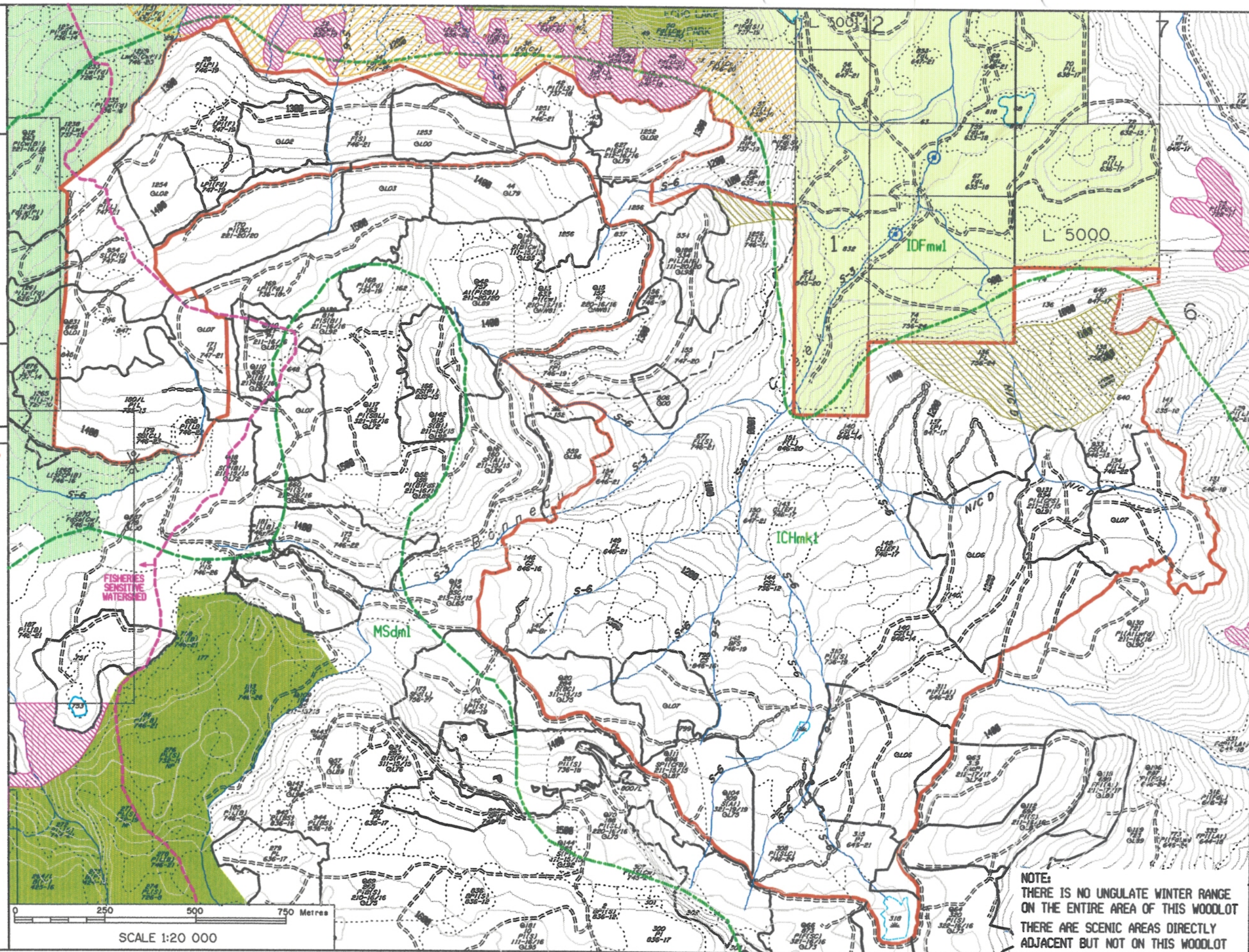
LAYOUT AND MAPPING BY:
TRP FORESTRY CONSULTANTS INC.
2108-23RD AVENUE, VERNON, B.C. V1T1J4
PHONE (250) 542-0691

LEGEND

- WOODLOT BOUNDARY
- BLOCK BOUNDARY
- EXISTING ROADS
- PROPOSED ROADS
- FENCES/CATTLEGUARDS
- STREAMS (Classification)
- CONTOUR LINES
- TIMBER TYPELINES
- BGC SUBZONE BOUNDARIES
- SENSITIVE WATERSHED BDY
- POLYGON NUMBER
- SCENIC AREAS
- OGMA AREAS
- SENSITIVE SOIL AREAS
- PRIVATE LAND
- OTHER WOODLOT AREAS
- PARKS/PROTECTED AREAS
- WATER INTAKES-
IRRIGATION & DOMESTIC



SCALE 1:20 000



NOTE:
THERE IS NO UNGULATE WINTER RANGE
ON THE ENTIRE AREA OF THIS WOODLOT
THERE ARE SCENIC AREAS DIRECTLY
ADJACENT BUT NOT ON THIS WOODLOT