MANNING DIVERSIFIED FOREST PRODUCTS LTD.

Landbase Netdown

2007 – 2017 Forest Management Plan for FMA 0200041

May 31, 2007

Prepared by: The Forestry Corp.



2007 – 2017 FMP FOR FMA 0200041

FMA Resources forms one of 10 sections of the 2007 – 2017 Forest Management Plan for Manning Diversified Forest Products Ltd.'s Forest Management Agreement (FMA) 0200041. The Forest Management Plan (FMP) includes the following sections:

- 1. **Introduction and Plan Development** Introduces the companies operating on the FMA and describes the FMP development process, including the public consultation process. Includes the FMP Standards Checklist.
- 2. FMA Area Describes the physical environment of the FMA Area.
- 3. FMA Resources Describes the natural resources within the FMA Area.
- 4. Values, Objectives, Indicators and Targets (VOITs) Details the values, objectives, indicators and targets that were instrumental in selecting the Preferred Forest Management Strategy and in developing forest management strategies for the FMP.
- 5. Forest Landscape Metrics Presents specific information regarding forest vegetation composition and natural disturbance within the FMA Area and/or northwestern Alberta to address VOIT requirements.
- 6. **Landbase Netdown** Provides a detailed description of the landbase netdown process, in preparation for the Timber Supply Analysis.
- 7. Yield Curves Documents the volume sampling and yield curve development process.
- 8. **Timber Supply Analysis** Describes how the Preferred Forest Management Strategy, which was selected to meet Values and Objectives, was incorporated into the Timber Supply Analysis and provides an Annual Allowable Cut for both the coniferous and deciduous landbases.
- 9. **Implementation** Describes the forest management strategies and operations that will be used to implement the FMP and help ensure that indicators and targets are met.
- 10. **Monitoring and Research** Describes monitoring commitments required to ensure indicators and targets are tracked and describes Manning Diversified's approach to supporting research.



Executive Summary

Manning Diversified Forest Products (MDFP) Ltd.'s Forest Management Agreement (FMA) Area includes two Forest Management Units (FMUs), P6 and P9, which are collectively known as FMU P16. As part of the 2007-2017 FMP process, a netdown landbase was developed to support the timber supply analysis (TSA) for P6 and P9.

This document describes the process used to develop the Active landbase for the timber supply analysis. The landbase netdown process evolved over time and this document summarizes only the final process utilized. The final landbase for MDFP consists of 275,995 polygons. The landbase is split into a coniferous and a deciduous landbase. The base year for the landbase is 2005.

The following table shows a breakdown by class and area of the landbase resulting from the netdown process. The column F_DEL in the netdown landbase dataset reflects this classification and will duplicate these results when summarized by the *AREA_HA* field.



MDFP landbase summary.

		Area (ha)		% Gross
Landbase Category	FMU P6	FMU P9	Total	- Area
Gross Landbase	297,531	298,147	595,677	100%
Patented Land (D_STATUS)				
PSP SRD PSP Buffer	239	0	239	0%
PATENT Protected Areas	270	0	270	0%
Total Patented Land	509	0	509	0%
Running Sum of Area Deleted	509	0	509	0%
Landbase Remaining	297,022	298,147	595,169	100%
Access (D_ACCESS, D_SEISMIC)				
ROAD Roads	2,394	755	3,149	1%
PIPE Pipelines	1,037	1,009	2,045	0%
SEISMIC Seismic Lines	5,154	6,326	11,479	2%
Total Access	8,584	8,089	16,674	3%
Running Sum of Area Deleted	9,093	8,089	17,182	3%
Landbase Remaining	288,438	290,057	578,495	97%
Non-Forested (D_NONFOR)		/	,	
WATER Water Body	3,163	635	3,798	1%
ANTHRO Anthropogenic Non-Vegetated	997	718	1,716	0%
NNF Non-Forested	36,934	20,979	57,913	10%
NNV Naturally Non-Vegetated	3,670	4,136	7,806	1%
Total Non-Forested	44,765	26,468	71,233	12%
Running Sum of Area Deleted	53,858	34,558	88,416	15%
Landbase Remaining	243,673	263,589	507,262	85%
Recent Burns (D_BURN)	210,070	200,000	007,202	0070
BURN Recent Burn	319	2	321	0%
Total Burn	319	2	321	0%
Running Sum of Area Deleted	54,177	34,559	88,736	15%
Landbase Remaining	243,354	263,587	506,941	85%
Non-Productive (D_TPR)	,	,	,	
U Unproductive	1,790	185	1,975	0%
F Decid TPR = F	1,106	1,776	2,881	0%
Total Non-Productive	2,896	1,960	4,856	1%
Running Sum of Area Deleted	57,073	36,520	93,592	16%
Landbase Remaining	240,458	261,627	502,085	84%
Water Buffers (D_BUF)	210,100	201,027	001,000	0170
RIVBK River Breaks	8,384	14.647	23,031	4%
SWAN Swan Lake Buffer	137	0	137	0%
WBUF Water Buffers	639	618	1,257	0%
Total Water Buffers	9,160	15,265	24,425	4%
Running Sum of Area Deleted	66.233	51,785	118,017	20%
Landbase Remaining	231,298	246,362	477,660	80%
Subjective Deletions (D_SUBJ, D_ISO)	231,290	240,302	477,000	0070
WETLAND Wetland	54,160	115,774	169,934	29%
ADENS A Density Stands	3,071	5,084	8,155	1%
LARCH Larch	70	22	92	0%
SBLEAD Sb Leading and TPR < G	1,835	847	2,682	0%
CBUSB APM Area Black Spruce	340	0	340	0%
1		0		
1	1,166		1,166	0%
01	0	0	0	0%
ISO Isolated Stands	0	0	0	0%
Total Subjective Deletions	60,641	121,727	182,369	31%
Total Area Deleted	126,874	173,512	300,386	50%
Active Landbase	170,657	124,634	295,291	50%

Table of Contents

EXE	EXECUTIVE SUMMARYIII		
1.	INTR	ODUCTION	.1
1.1		BACKGROUND	1
1.2	-	OVERVIEW OF THE PROCESS	
2.	CDA 7	TIAL DATA	
2.1		ALBERTA VEGETATION INVENTORY	
	2.1.1	Compartments	
	2.1.2	Natural Sub-regions	
	2.1.3	Wildlife Management Zones	
	2.1.4	Tree Improvement Breeding Regions	
	2.1.5	Alternative Patch Management Area	
2.2		FUR MANAGEMENT AREAS	
2.3		HISTORIC AND PLANNED BLOCKS	
	2.3.1	Strata assignment	
2.4		RECENT BURNS	
2.5		SRD PERMANENT SAMPLE PLOTS	
2.6		MDFP PERMANENT SAMPLE PLOTS	
2.7		RIVER BREAKS	
	2.7.1	Steep Slope Areas	
	2.7.2	Notikewin Habitat Zone	
2.8		TRUMPETER SWAN BUFFER	
2.9		HIGHWAY MANAGEMENT ZONE	
2.1	-	TWIN LAKES COMPLEX	
	2.10.1	Twin Lakes Lodge Management Zone	
	2.10.2	Twin Lakes Buffer	
	2.10.3	Twin Lakes Recreation Area	
	2.10.4	Twisted Bog Moss Management Zone	
2.1		WATERSHED BOUNDARIES	
2.1		HYDROLOGY BUFFERS	
2.1	-		
2.1	2.13.1	Processing	
2.1		AVI DATA DISCREPANCY	
	-		-
3.	SPAT	TIAL DATA PROCESSING	
3.1		OVERVIEW	
3.2	2	PROCESSING	17
4.	ATTI	RIBUTE PROCESSING	53
4.1	l	OVERVIEW	53
4.2	2	AVI STRATIFICATION	53



4.2.1	Copy AVI Attributes to Modified Fields	53
4.2.2	Species Standardization	
4.2.3	Species Percent	55
4.2.4	STORY_USED – Defining Layer	
4.2.5	<i>Re-assign AVI for STORY_USED = 2</i>	
4.2.6	Understory Strata Group	
4.2.7	Overstory Strata Group	
4.2.8	Leading Conifer Species	59
4.2.9	Understory Leading Conifer Species	59
4.3	TSA ITEMS	
4.3.1	LANDBASE and F_YC - Landbase and Yield Strata	
4.3.2	F_AGE - Stand Age	
4.3.3	F_DEN - Density	
4.3.4	AREA_HA - Area	
4.3.5	F_MGT - Management Zones	
4.3.6	F_WILD – Wildlife Management Zones	
4.3.7	<i>F_CBU – Alternative Patch Management Area</i>	
4.4	LANDBASE EXCLUSIONS	
4.4.1	D_STATUS - Patented Land Deletions	
4.4.2	D_ACCESS - Access Deletions	
4.4.3	D_SEISMIC – Seismic Deletions	
4.4.4	D_NONFOR - Non-forested Deletions	
4.4.5	D_BURN - Burned Area Deletions	
4.4.6	D_BUF - Water Course Buffer Deletions	
4.4.7	D_SUBJ and D_TPR - Subjective and TPR Deletions	
4.4.8	D_ISO – Isolated Stands	
4.5	NETDOWN ATTRIBUTES	
4.5.1	F_DEL – Netdown Hierarchy	
5. LAN	DBASE NETDOWN RESULTS	
5.1	NETDOWN DATA DOCUMENTATION	
6. TSA	LANDBASE	
6.1	ATTRIBUTE TABLE CREATION	78
6.1.1	Reducing area for Seismic – p16_lb4_tsa_net_area	
6.1.2	Add_preblocks	
6.1.3	Opunits	
6.1.4	Temp themes	
6.1.5	$P16_lb4_tsa_themes$	
6.2	TSA LANDBASE ATTRIBUTES	
6.2.1	THEME1 – Landbase	
6.2.2		
6.2.3	THEME3 – Species Strata	
6.2.4	THEME4 – Density	
6.2.5	THEME5 – Active Landbase	
6.2.6	THEME6 – Harvest State	

6.2.7	THEME7 – Breeding Regions	
6.2.8	AGE_PERIOD	
6.2.9	DUHGTCLASS	
6.2.10	DELTA1	
6.2.11	TREATMENT1	
6.2.12	ACCESS_C4	
6.2.13	ROADS_C1	
6.2.14	<i>ROADS</i> _ <i>C</i> 2	
6.3	EXPORTING MODELING FILES	
6.3.1	Woodstock Areas file	
6.3.2	P16_lb4_tsa_output	
6.3.3	Patchworks Initial Sequence	
6.3.4	Patchworks Groups files	
6.4	TSA LANDBASE SHAPEFILE CREATION	

List of Appendices

Appendix I	Polygon U	pdate Protocol
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- Appendix II Polygon Update Protocol Field Manual
- Appendix III Polygon Update Analysis Methods
- Appendix IV Approval Letters
- Appendix V Data Dictionaries for Submitted and Input Datasets
- Appendix VI Data Dictionary for CLS Landbase
- Appendix VII Data Dictionary for TSA Landbase and Associated Files
- Appendix VIII DVD of Landbase Netdown Documentation

List of Tables

Table 2-1. List of datasets used in building input datasets	6
Table 2-2. List of input datasets used in the creation of the landbase	
Table 2-3. Harvested blocks strata assignment source.	
Table 2-4. Hydrology buffer widths	
Table 2-5. Landuse buffer widths.	
Table 2-6. Landuse hierarchy.	
Table 2-7. Seismic buffer widths.	
Table 3-1. Comparison of total landbase before and after eliminations.	50
Table 3-2. Comparison of operable landbase before and after elimination, by yield strata	
Table 4-1. Description of the values in STORY_USED field	
Table 4-2. Management zone buffer widths.	
Table 4-3. Buffer widths for water features	
Table 4-4. Priority listing for netdown hierarchy.	
Table 5-1. P6 and P9 landbase summary.	74
Table 5-2. FMU and strata area by management zone.	75
Table 6-1. Add_preblocks table description.	
Table 6-2. Source tables for fields in p16_11b4_tsa themes	



List of Figures

Figure 1-1. Figure legend.	
Figure 1-2. Programming process flow	3
Figure 2-1. Dataset preparation summary	8
Figure 2-2. Map of compartment boundaries.	11
Figure 2-3. Map of Natural Sub-regions (1994 version).	13
Figure 2-4. Map of wildlife management zones.	
Figure 2-5. Map of tree improvement breeding regions	17
Figure 2-6. Map of Alternative Patch Management Area.	
Figure 2-7. Map of Fur Management Areas.	
Figure 2-8. Map of historical and planned blocks.	
Figure 2-9. Map of recent burns (2002 to 2005)	25
Figure 2-10. Map of SRD permanent sample plots.	
Figure 2-11. Map of MDFP permanent sample plots	29
Figure 2-12. Map of river breaks including Notekewin habit zone.	31
Figure 2-13. Map of Swan buffer	
Figure 2-14. Map of Highway Management Zone.	
Figure 2-15. Map of Twin Lake area	37
Figure 2-16. Map of watershed boundaries.	
Figure 2-17. Map of hydrology buffers.	
Figure 2-18. Map of landuse and access	
Figure 2-19. Map of seismic lines.	
Figure 2-20. Map showing landuse discrepancy in AVI.	
Figure 3-1. Landbase netdown process	
Figure 4-1. Copy AVI attributes to 'modified' fields	
Figure 4-2. Standardization of overstory species	
Figure 4-3. Standardization of understory species.	
Figure 4-4. DECID, CONIFER, UDECID, UCONIFER - species percentages	
Figure 4-5. STORY_USED - assigning the 'defining' layer to AVI polygons	
Figure 4-6. Re-assign AVI for STORY_USED = 2	
Figure 4-7. USTR_GRP - understory strata group.	
Figure 4-8. STR_GRP - overstory strata group.	
Figure 4-9. LEADSP - leading conifer species	
Figure 4-10. ULEADSP - understory leading conifer species.	
Figure 4-11. LANDBASE and F_YC - yield strata and landbase calculations	61
Figure 4-12. F_AGE - stand age calculation.	62
Figure 4-13. F_DEN - stand density calculation.	
Figure 4-14. AREA_HA - area calculation	
Figure 4-15. F_MGT - special management zone calculation.	
Figure 4-16. F_WILD - wildlife zone designation calculation.	
Figure 4-17. F_CBU - Alternative Patch Management Area.	
Figure 4-18. D_STATUS - patented land calculations	
Figure 4-19. D_ACCESS - access deletion calculations	
Figure 4-20. D_SEISMIC - cutline deletion calculations.	
Figure 4-21. D_NONFOR - non-forested deletion calculation.	
Figure 4-22. D_BURN - burned area deletion calculation	
Figure 4-23. D_BUF - water course buffer deletion calculation	
Figure 4-24. D_SUBJ and D_TPR - subjective and TPR deletion calculations	

Figure 4-25. D_SUBJ - additional subjective deletion calculation within Alternative Patch Manag	gement
Area in FMU P6.	70
Figure 4-26. D_ISO - isolated stand deletion calculation.	
Figure 4-27. F_DEL - deletion hierarchy calculation	72
Figure 6-1. TSA landbase processing overview.	
Figure 6-2. Reducing area for seismic reducing area calculation.	79
Figure 6-3. Creation of p16_lb4_tsa_themes table	80
Figure 6-4. THEME1 calculation	
Figure 6-5. THEME2 calculation	82
Figure 6-6. THEME3 calculation	
Figure 6-7. THEME4 calculation	83
Figure 6-8. THEME5 calculation	
Figure 6-9. THEME6 calculation	
Figure 6-10. THEME7calculation	
Figure 6-11. AGE_PERIOD calculation	
Figure 6-12. DUHGTCLASS calculation	
Figure 6-13. Delta1 calculation	
Figure 6-14. TREATMENT1 calculation	
Figure 6-15. ACCESS_C4 calculation	
Figure 6-16. Calculation of ROADS_C1	
Figure 6-17. Calculation of ROADS_C2	
Figure 6-18. Creation of preblock_schedule.csv.	
Figure 6-19. Creation of groups_mgmt.csv.	
Figure 6-20. Creation of groups_caribou.csv.	
Figure 6-21. Creation of groups_landbase.csv.	
Figure 6-22. Creation of groups_fmu.csv.	
Figure 6-23. Creation of groups_ssi_rank.csv.	
Figure 6-24. Creation of groups_sw_tpr.csv	93
Figure 6-25. Creation of groups_du_hgt.csv.	94

1. Introduction

1.1 Background

Manning Diversified Forest Products Ltd. (MDFP) has a Forest Management Agreement (FMA) Area that consists of two FMU's, P6 and P9.

1.2 Overview of the Process

The landbase netdown process comprised of five main steps:

- Compile and process base data, administrative and fire history information,
- Process forest cover (AVI) attribute data,
- Prepare existing and planned harvest block coverage,
- Prepare a single spatial coverage of all necessary information,
- Calculate final landbase attributes.

The landbase netdown process evolved over time and this document summarizes only the final process. Information from the previous netdown landbase developed by SRD in 1997 (based on Phase III inventory) was not considered in this process although some of the same assumptions were retained.

For the figures used throughout the document, Figure 1-1 shows the symbols used to represent data and actions taken on the data.



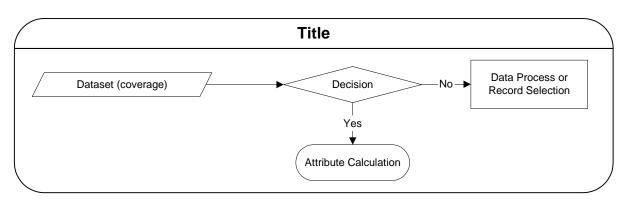


Figure 1-1. Figure legend.

The general flow of programming used is presented in Figure 1-2. The flowchart shows that the spatial processing takes place in Arc/Info, the preliminary strata calculations are completed using SAS (as these were calculated with the yield curves), and all other attribute calculations were done in Oracle.

A description of the datasets used in the netdown process is described in Section 2. For each dataset, a description of the processing that occurred to prepare the data for inclusion in the netdown process is also provided. Also, information regarding the source of the dataset is found in Appendix V. Section 3 provides detail on the spatial data processing to join the many layers together. Section 4 describes the field assignment of the attributes calculated once the landbase file is created. Section 4.5 describes the netdown attributes and how they are used in a hierarchy to determine the one call for each polygon. Finally, section 5 summarizes the results of the landbase netdown.

Landbase Netdown

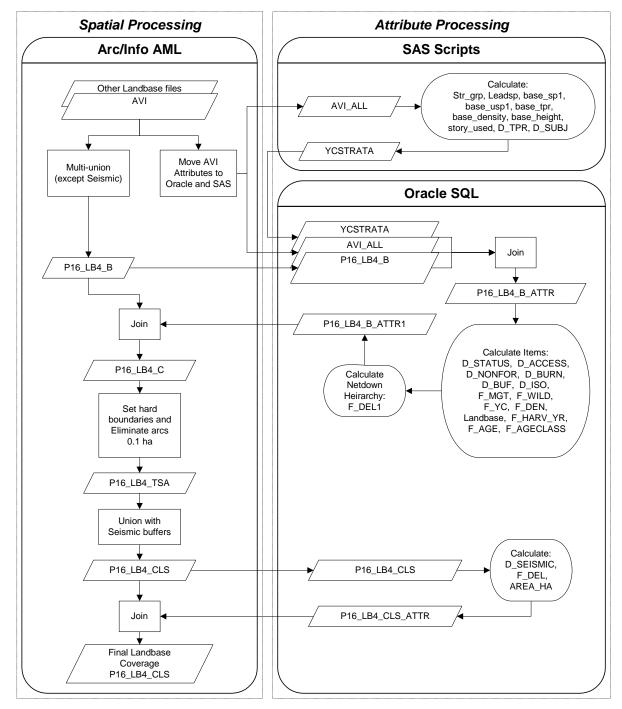


Figure 1-2. Programming process flow.

2. Spatial Data

This section describes the datasets that is used in the landbase process. Table 2-1 lists the preliminary datasets used to generate input datasets, as indicated in the 'Result Dataset' column.



Dataset Name	Description	Result Dataset
SEISMIC	P69 cutline coverage	CUT_B
SRD_PSP	SRD Permanent Sample Plots	GOVT_PSP_B
GPIPE_CUT	Non-AVI pipelines	GPIPE_CUT_B
HIGHWAY	Highways to be buffered	HWY_MGT
P69_LAKES	AVI Lakes	LAKE_B
P69_MAJRIV	Major rivers from avi and SRD hydropolys	MAJRIV_B
AVI_21	P6 AVI v2.1	P69_AVI
COMPART	Compartment boundaries	P69_AVI
NSR_1994	1994 Natural Subregion coverage	P69_AVI
P9_NOTWP	P9 AVI v2.1	P69_AVI
WILD_MGT	Wildlife management zones	P69_AVI
CBU_2005	Alternative Patch Management Zone	P69_AVI
BREED_G_J	Breeding Regions	P69_AVI
P6_ALL_PLOTS	P6 MDFP Permanent Sample Plots	P69_PSP_B
P9_ALL_PLOTS	P9 MDFP PSP's	P69_PSP_B
ROADS	Non-AVI roads	ROADS_B
MDFP_SLNET	Small rivers and creeks	STREAM_B
SWAN	Trumpeter Swan Lakes	SWAN_B
TWIN_LODGE	Twin Lodge MLL	TWINLGE_B
AVITWIN_LAKES	Twin Lakes	TWINLK_B
LAKE_B	Lake buffers	Z_HYDRO
MAJRIV_B	Major River buffers	Z_HYDRO
STREAM_B	Stream buffers	Z_HYDRO
GPIPE_CUT_B	Pipeline buffers	Z_LANDUSE
LANDUSE2004	MDFP Landuse layer	Z_LANDUSE
MLL_PNT	Last minute additions to Landuse layer	Z_LANDUSE
P6WELLS_CUT	Oil and Gas non-linear dispositions	Z_LANDUSE
ROADS_B	Road buffers	Z_LANDUSE

Table 2-1. I	List of datasets	used in building	input datasets.
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Table 2-2 contains a list of the input datasets that are used in the actual multi-union process and a short description of each, as well as the fields that are used in the landbase file.

		Net Landbase
Dataset Name	Description	Database Field(s)
BLOCKS_ALL	Final block coverage (planned and actual) excluding AVI blocks	INSIDE_BLK
		HARV_YR
		MDFP_STRATA
		TREATMENT
CUT_B	Cutline buffers	IN_CUT_B
FIRES	Fires since AVI capture	FIRENUMBER
		FIRE_YEAR
GOVT_PSP_B	Polygon buffers of SRD Permanent Sample Plots	IN_GOVT_PSP_B
HWY_MGT	Highway management zone	HWY_MGT
P69_AVI	AVI v2.1 coverage for both P6 and P9.	FORESTKEY
		COMPART
		WILD_MGT
		NSR_NAME
		REG_G_DOM
		REG_J_DOM
		CBU_2005
P69_PSP_B	Polygon buffers of MDFP Permanent Sample Plots	IN_MDFP_PSP_B
P69_RIVBRK	River Break deletion coverage	RIVER_BREAK
SWAN_B	Trumpter Swan Lakes buffer	IN_SWAN_B
TRAPLINE_PV	Fur management areas	TRAPLINE
TWINLGE_B	Twin Lakes Lodge management zone	IN_TWINLGE_B
TWINLK_B	Twin Lakes buffer	IN_TWINLK_B
TWINLK_REC	Twin Lakes recreation area	REC
TWISTEDBOG	Twisted Bog Moss management zone	BOG
WATERSHED	Watershed boundaries	WSHED_ID
Z_HYDRO	Unioned and dissolved hydro buffers (streams, rivers and lakes)	IN_LAKES_B
		MAJRIV_TYPE
		IN_MAJRIV_B
		IN_STREAM_B
Z_LANDUSE	Unioned and dissolved landuse (roads, pipelines)	LANDUSE
		PNT

Table 2-2. List of input datasets used in the creation of the landbase.

Figure 2-1 shows a summary of the processing steps taken to prepare data from Table 2-1 into the datasets shown in Table 2-2.



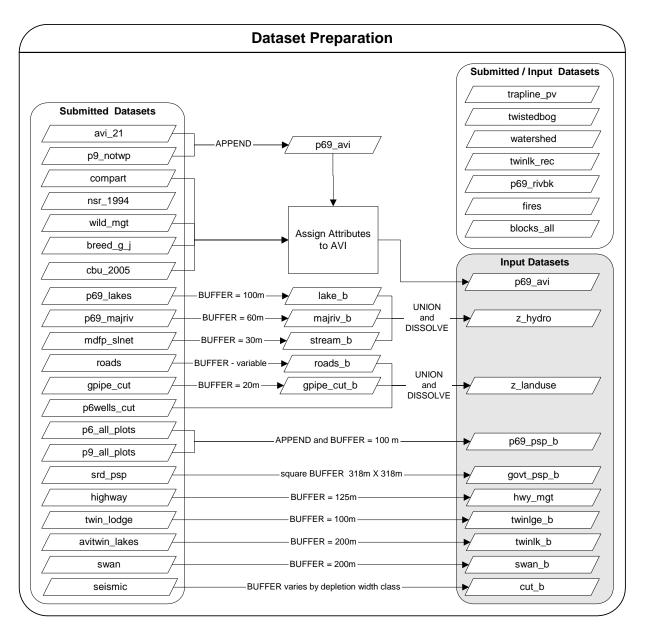


Figure 2-1. Dataset preparation summary.

Section 2 contains complete descriptions of each dataset and preprocessing done to each. Appendix V lists complete information on each dataset file and a data dictionary for each of the included data sets.

2.1 Alberta Vegetation Inventory

A combination of fires and harvesting operations has shaped the current landscape. The Alberta Vegetation Inventory (AVI) classified all fires prior to 1997 in P6 and 2000 in P9, including the large 1950 Chinchaga burn that covers approximately the western two thirds of FMU P9. Historically harvesting operations have occurred primarily in the conifer types. Orthophotos created from 2002 photography allowed all recent harvesting activity to be incorporated into the inventory. This landbase is considered to be current to September 2005.

May 31, 2007	Landbase Netdown

P6 AVI was created by Greenlink Forestry Inc. for Manning Diversified Forest Products and is effective as of 1997. The original format was AVI 2.2 (Draft) and was converted to AVI 2.1 by Alberta. Two types of 1:20,000-scale aerial photography were used:

- Spring 1997 color infrared (CIR) leaf off/snow free aerial photography
- Summer (July/August) Black and White infrared (BW IR) leaf-on aerial photography
- Ortho reproduction was contracted by Tarin Resources Services Ltd. and The Orthoshop. 1985 and 1998 Black and White aerial photography was used to create the orthophoto bases.

P9 AVI was created by Greenlink (original format was AVI 2.2 (draft) and was converted to AVI 2.1 by SRD) for Manning Diversified Forest Products and is effective as of 2000. Two types of 1:20,000-scale aerial photography were used:

- Summer 2000 Black and White infrared (BW IR) leaf-on aerial photography
- Fall 2000 false color infrared (CIR) leaf off/snow free aerial photography

1:60,000-scale aerial photography was used to create orthophotos:

• Summer 2000 High altitude Black and White (agfa 50) leaf-on aerial photography

AVI 2.1 for both P6 and P9 FMU was used for the landbase and TSA. In P9 two versions of the AVI were produced, a seamless version and one with township lines. The seamless version was chosen to represent P9 as the township line version adds unnecessary polygons and potential for slivers. Approval letters for both P6 and P9 are provided in Appendix IV.

The AVI input coverage used in the multi-union is a combination of P6 and P9 AVI coverages, as well as five other coverages:

- Compartments,
- Natural Sub-Regions,
- Wildlife Management Zones,
- Breeding Regions,
- Alternative Patch Management Zone.

These additional datasets were digitized at large scales and have large, indistinct polygon boundaries. It does not make sense to artificially add linework to the landbase coverage by unioning these coverages into the final landbase when the definitive line between polygons is either abstract (such as natural subregion boundaries, breeding regions or wildlife zones) or follows existing features (such as compartment boundaries). Therefore, the attributes were added to the AVI without their linework being cut in.



2.1.1 Compartments

The compartment layer was created by selecting arcs from the AVI coverage. The FMU boundaries were used for the outside boundary. The Hotchkiss, Meikle and Botha Rivers along with the main Canfor Forest Products Ltd. haul road were used as compartment boundaries in FMU P6, creating 5 compartments. P9 was divided into 6 compartments using hydrography and wet land areas. Compartment numbers were assigned sequential numbers, 1-11, as shown in Figure 2-2.

This coverage is incorporated into the landbase by adding a compartment attribute to the AVI.

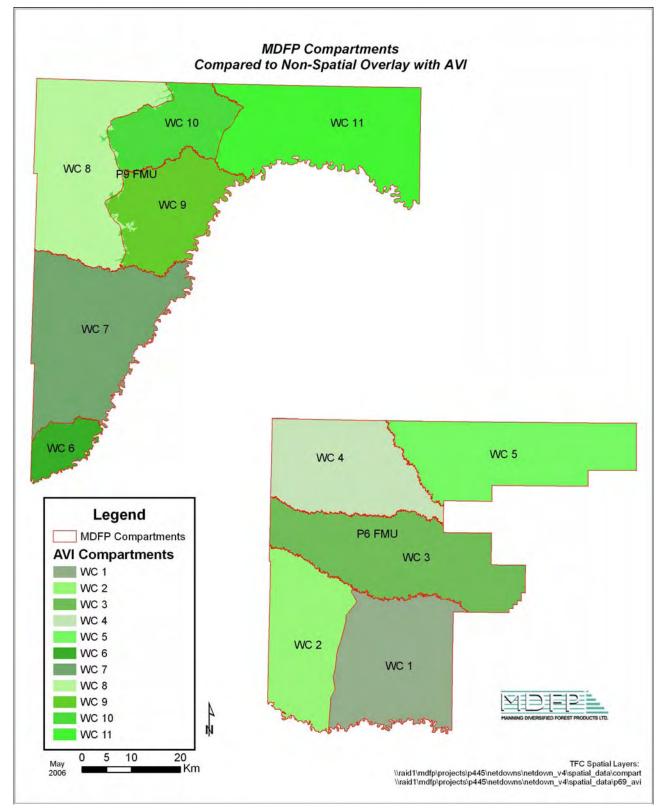


Figure 2-2. Map of compartment boundaries.



2.1.2 Natural Sub-regions

Two Natural Sub-region coverages were available for use in the analysis, the 1994 version and the revised 2005 version. The yield curve development and sampling programs were all based on the 1994 version, so this coverage was used to represent the natural subregions for the TSA (see Figure 2-3).

This coverage is incorporated to the landbase by adding a Natural Sub-region attribute to the AVI.

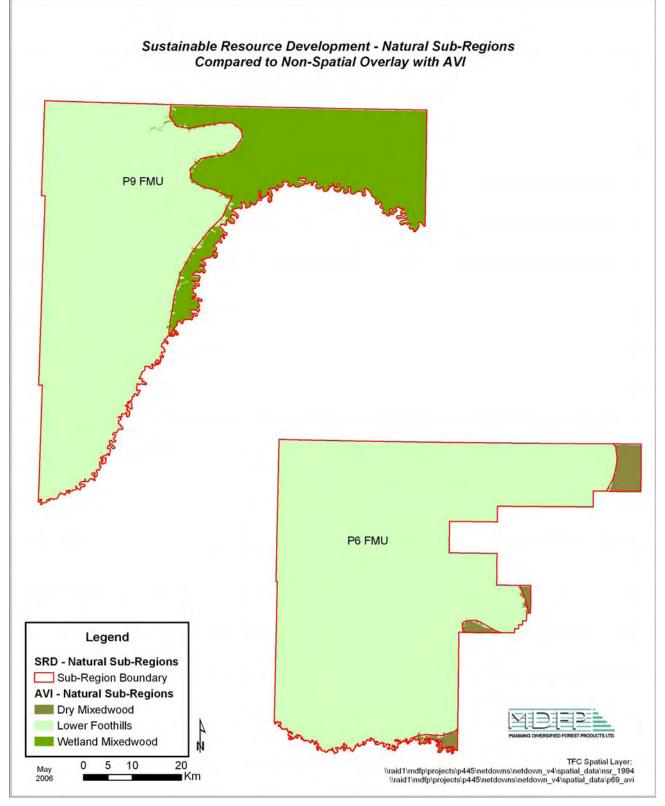


Figure 2-3. Map of Natural Sub-regions (1994 version).



2.1.3 Wildlife Management Zones

The wildlife management zone coverage was obtained from SRD (see Figure 2-4). It defines the ranges of three zones to be used in the analysis:

- Caribou zone,
- Ungulate zone,
- Special access zone.

This coverage is incorporated into the landbase by adding a wildlife management zone attribute to the AVI.

Landbase Netdown

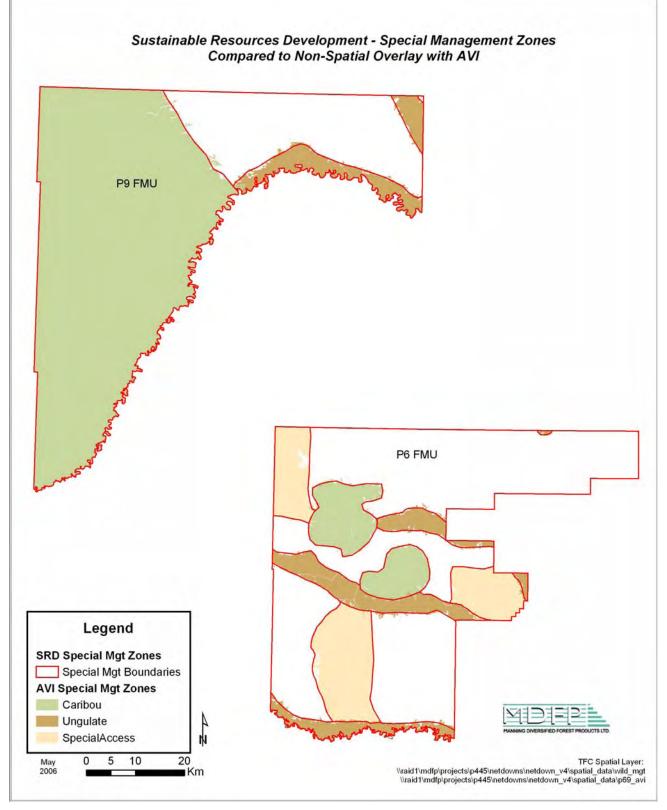


Figure 2-4. Map of wildlife management zones.



2.1.4 Tree Improvement Breeding Regions

Two tree improvement breeding region coverages were obtained from MDFP and these were processed into one coverage to ease processing (Figure 2-5). Region G2 applies to the SW strata and region J applies to the PL strata.

This coverage is incorporated into the landbase by adding a Breeding region attribute to the AVI.

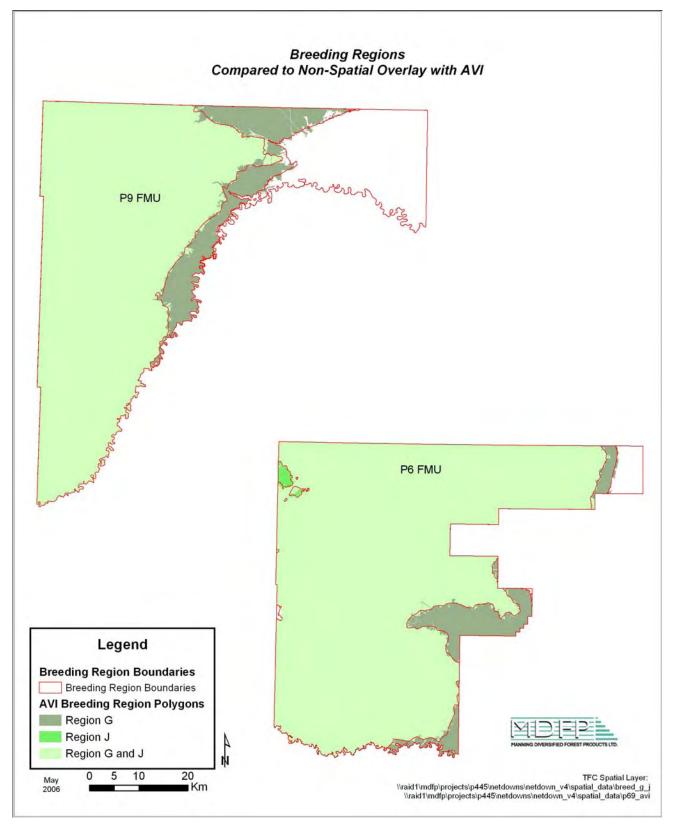


Figure 2-5. Map of tree improvement breeding regions.



2.1.5 Alternative Patch Management Area

The Alternative Patch Management Area (APMA) is shown in Figure 2-6. The P9 portion is coincident with the P9 Caribou Zone from the wildlife management zones coverage. Delineation of the P6 APMA is described in section 7.2.1 in FMP Implementation.

The P6 Alternative Patch Management Area is 76,283 ha and fully surrounds the P6 Caribou Zone (27,534 ha). Figure 2-6 shows the APMA in both P6 and P9, and overlapping with the Caribou Zone (Figure 2-4), but in application, the APMA only applies outside of the Caribou Zone. This means that the APMA is not active in P9 and will have 'hole' in P6 for the Caribou Zone. See VOIT document, Section 2 for map of the Caribou Zone and APMA together.

This coverage is incorporated into the landbase by adding an APMA attribute to the AVI.

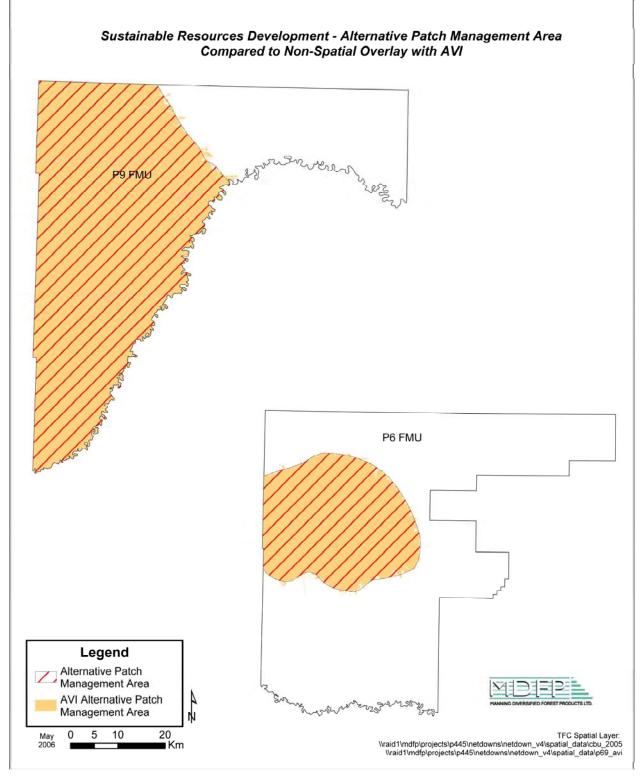


Figure 2-6. Map of Alternative Patch Management Area.



2.2 Fur Management Areas

The Fur Management Area coverage was obtained from SRD and includes all of P6 and P9 (Figure 2-7). Some manual edits were made to fill in missing data as per instructions given by MDFP. This coverage was also converted to the proper projection.

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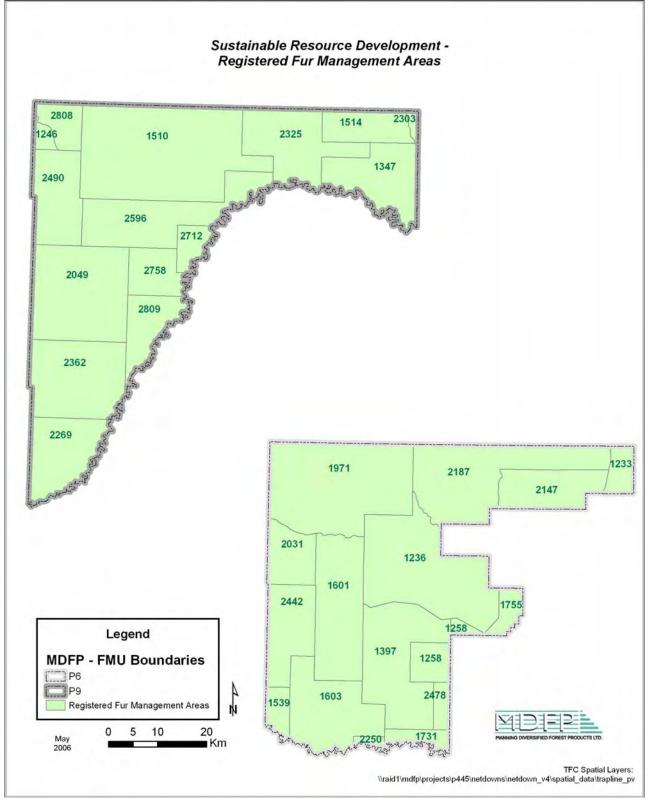


Figure 2-7. Map of Fur Management Areas.



2.3 Historic and Planned Blocks

Three sources of block information in addition to the AVI were available. The first source was a coverage Greenlink Forestry Inc. created in 2003 as part of a block update process. The second source was a coverage from MDFP with blocks extracted from AVI and updated to reflect activities since harvest. The third source was planned block boundaries from MDFP and DMI. These three sources were combined into one coverage and then the boundaries and attributes were manually edited to ensure that the most complete and current information for each block was utilized. The resulting coverage is called Blocks_all and contains treatments, opening numbers, harvest years and strata for most historical blocks. Figure 2-8 shows the resulting historic and planned blocks.

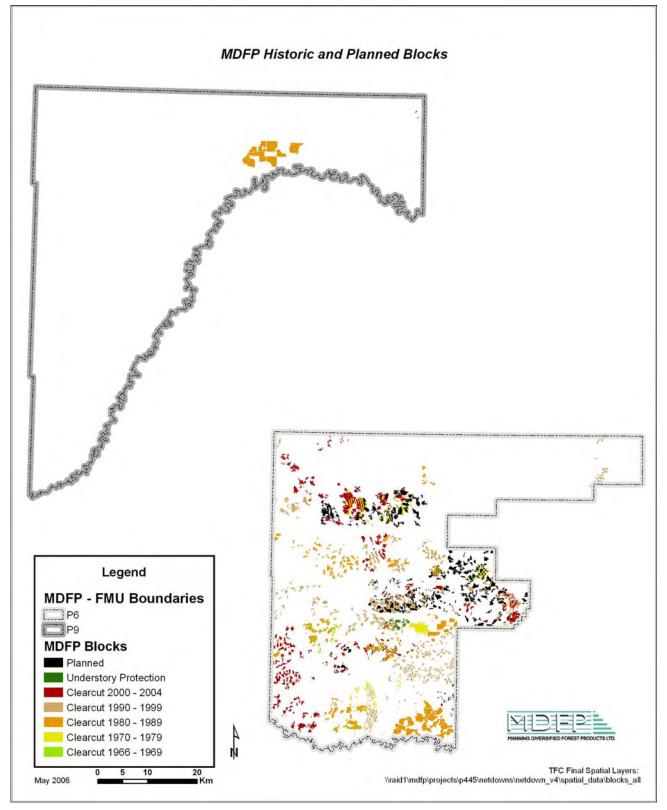


Figure 2-8. Map of historical and planned blocks.



2.3.1 Strata assignment

MDFP became a quota holder in 1997 and a FMA holder in 2002 and, as such, their cutblock liability begins in 1997. Pre-1997 blocks were harvested by DMI and other companies, and have no liability to MDFP. Some of these pre-1997 blocks have been tended by MDFP, and now fall into their liability.

Post-1997 blocks are assigned to a stratum based on the MDFP block treatment database (known as the DIRT database) where available or from the AVI. The pre-1997 blocks are assigned a stratum based on survey data, as outlined in Manning Diversified Forest Products Ltd. Polygon Update Protocol (August 15, 2005) Appendix I, Appendix II and Appendix III. This survey program was established to assign strata to reflect stand tending treatments conducted since the AVI or blocks that are unclassified in the AVI. The survey does not replace existing regeneration liabilities or commitments.

Under the protocol, 218 blocks were selected to be updated and assigned a stratum. In total, 40 blocks were surveyed, and the findings were applied to an additional 178 blocks. The remaining blocks do not have a strata assigned in the AVI. These were not surveyed and became part of the non-forested landbase. These blocks will be excluded from the active landbase in this management plan. Table 2-3 shows the number of blocks and the area assigned using each source.

Block Strata		Blocks	
Assigned from		Number	Area (ha)
AVI call		652	8,252
DIRT strata		612	10,322
Surveyed Blocks		40	2,054
Stratified from survey data		178	2,826
No Strata assigned		249	4,228
	Total	1,731	27,682

Table 2-3. Harvested blocks strata assignment source.

2.4 Recent Burns

Recent fires that are not captured by the AVI are removed from the landbase until a subsequent version of AVI is able to classify the burns using forest cover attributes (i.e., once vegetation has re-grown sufficiently). The Provincial fire history coverage was provided by SRD and fires in the MDFP FMA that were not captured in the AVI were selected for overlay in the landbase as shown in Figure 2-9. These were fires that occurred between 2002 and 2005.

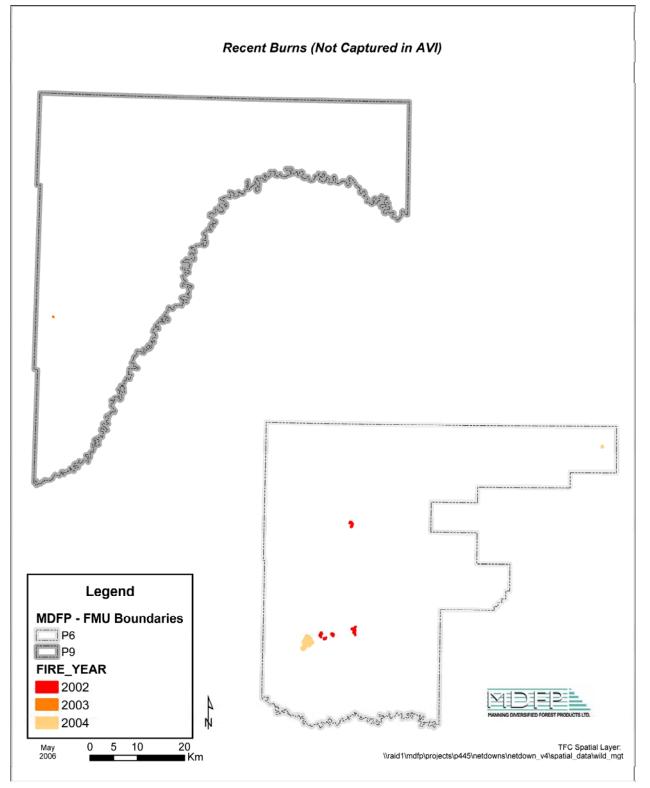


Figure 2-9. Map of recent burns (2002 to 2005).



2.5 SRD Permanent Sample Plots

SRD permanent sample plots (PSPs) are a permanent deletion from the landbase. These plots are located only in FMU P6. The plots are square in shape but the digital coverage was provided as centre points. Squares that are 318m x 318m were generated from these centre points to represent the SRD PSPs (see Figure 2-10).

Unfortunately, three PSP points were not included in the spatial layer from SRD. These three plots are not included in the dataset and are not part of the overlay process. They are however, mapped for use by operational planners to ensure that they will not be harvested.

Landbase Netdown

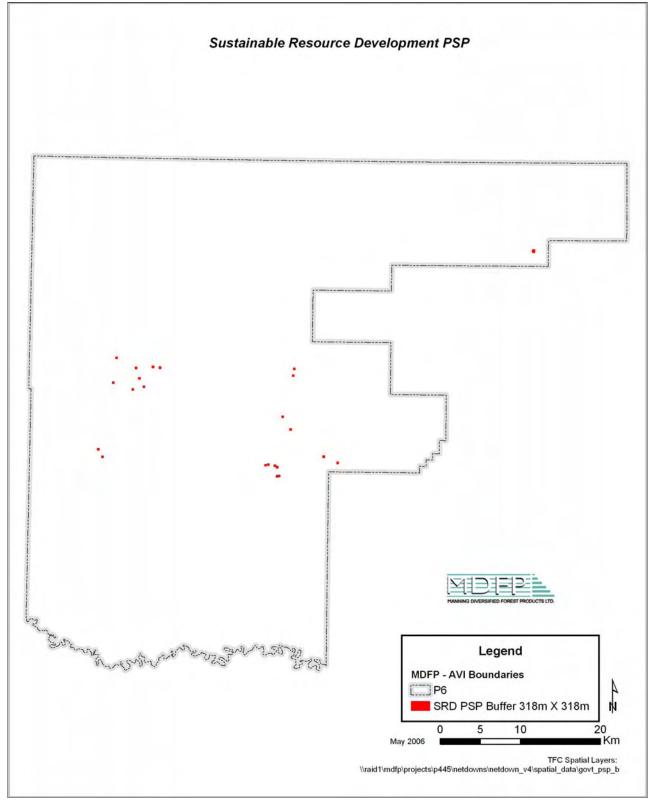


Figure 2-10. Map of SRD permanent sample plots.



2.6 MDFP Permanent Sample Plots

MDFP permanent sample plots are located on a grid throughout P6 and P9 (Figure 2-11). The plots are a temporary deletion from the landbase. The plot centre points were buffered by 100 m radius (200 m diameter) circles to represent these areas.

May 31, 2007

Landbase Netdown

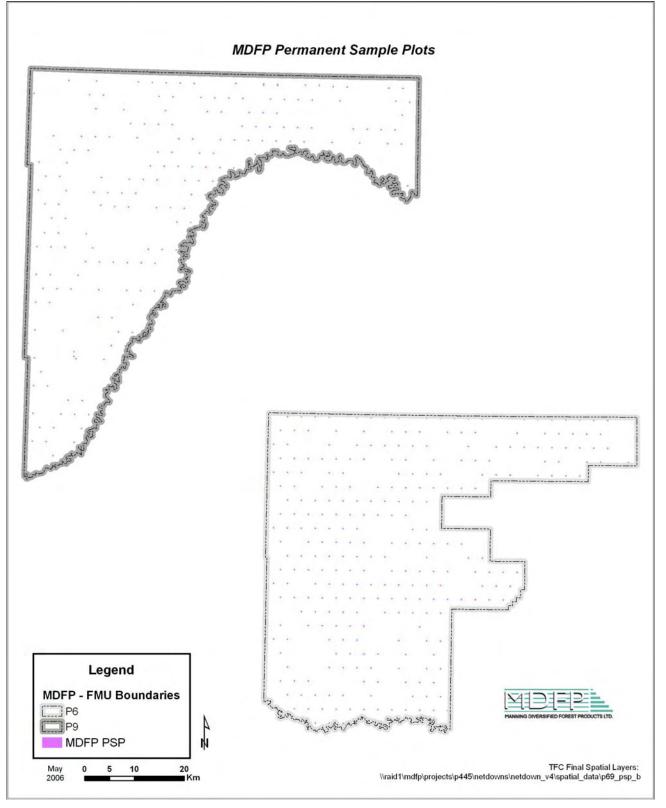


Figure 2-11. Map of MDFP permanent sample plots.



2.7 River Breaks

The river break coverage was prepared by a consultant for MDFP. The river break layer was created from local professional judgment using orthophotos and paper maps. The coverage identifies areas that are inoperable due to steep slopes and therefore focused on the top of the river break (Figure 2-12).

2.7.1 Steep Slope Areas

Steep slope areas are normally excluded from the operable landbase, as they are not suitable for timber harvesting. MDFP staff has reviewed the river break layer and all MDFP steep slope areas are contained within the river break layer and therefore removed from the active landbase.

2.7.2 Notikewin Habitat Zone

The Notikewin Habitat Zone was create to provide additional protection to the Notikewin River and its major tributaries (Botha, Hotchkiss and Meikle Rivers). Most of the river break polygons within P6 are classified as Notikewin Habitat Zone as shown in Figure 2-12 and are removed from the active landbase.

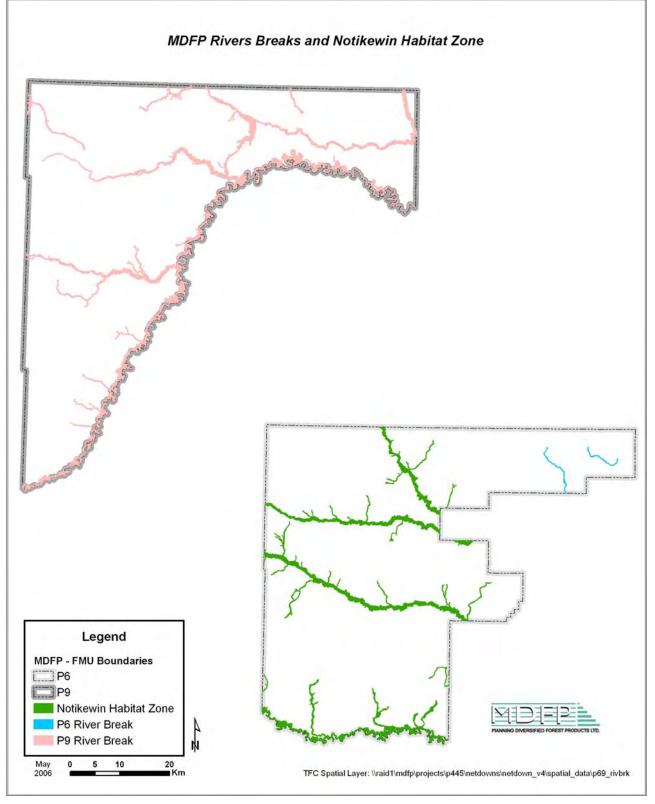


Figure 2-12. Map of river breaks including Notekewin habit zone.



2.8 Trumpeter Swan Buffer

SRD provided MDFP with the Element Occurrence (EOS) layer for the FMA Area. Within the MDFP FMA three lakes were identified as trumpeter swan nesting sites. These three lakes were identified in the AVI and a 200 m buffer was applied as indicated in Figure 2-13.

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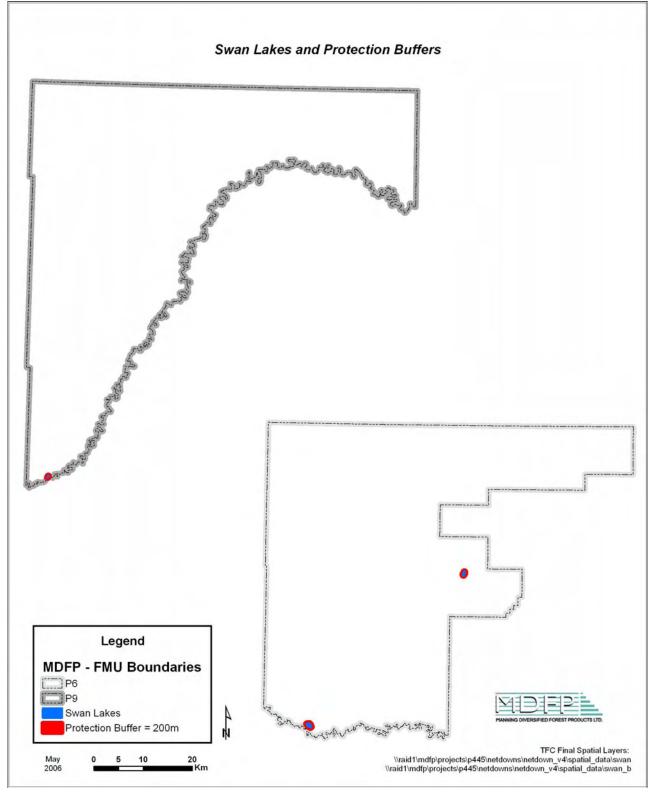


Figure 2-13. Map of Swan buffer.



2.9 Highway Management Zone

The provincial highway (HWY 35) and the Chinchaga Forestry road running through the P6 FMU were buffered to create a Highway Management Zone that is 250 m wide (125 m each side of centerline). This area was added to the landbase as a special management zone (Figure 2-14) but was included in the active landbase.

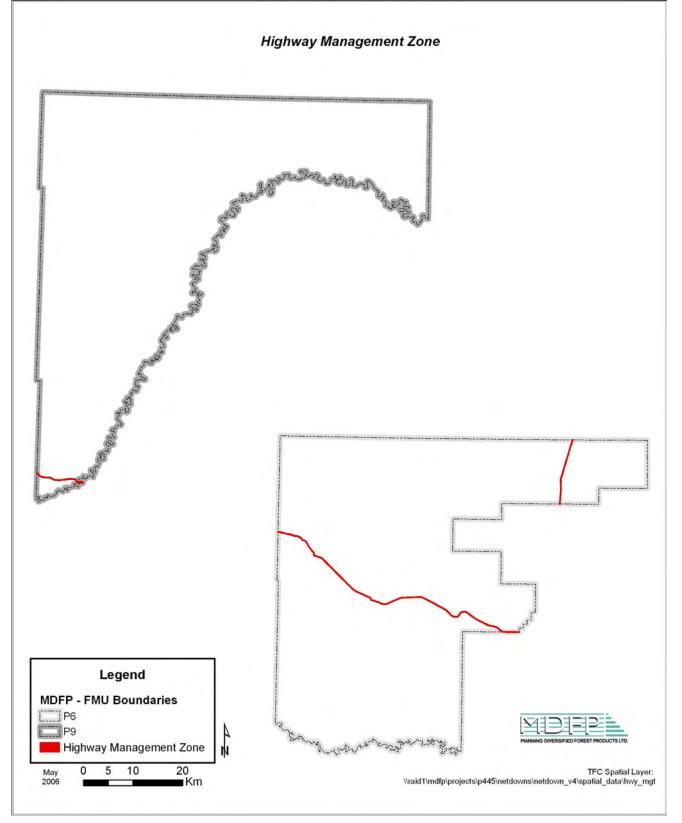


Figure 2-14. Map of Highway Management Zone.



2.10 Twin Lakes Complex

The following management zones came from several sources, but all are located in the northeast corner of FMU P6, in the vicinity of the Twin Lakes (see Figure 2-15.)

2.10.1 Twin Lakes Lodge Management Zone

The AVI polygon containing Twin Lakes Paradise Motel was selected and buffered 100 m to define the Twinlakes Lodge Special Management Zone.

2.10.2 Twin Lakes Buffer

A buffer of 200 m was applied around the Twin Lakes to create a protection buffer deletion in the landbase.

2.10.3 Twin Lakes Recreation Area

A coverage delineating the Twin Lakes Recreation Areas was provided by Parks and Protected Areas Division, Alberta Community Development. This area is cut into the landbase as a deletion.

2.10.4 Twisted Bog Moss Management Zone

SRD provided the EOS layer for the MDFP FMA Area, which identified the occurrence of twisted bog moss in the vicinity of Twin Lakes. A 1000 m buffer was established around the sighting to facilitate protection of this moss species, which has been identified at limited locations within the province. The Twisted Bog Moss Management Zone is included in the landbase as a special management zone.

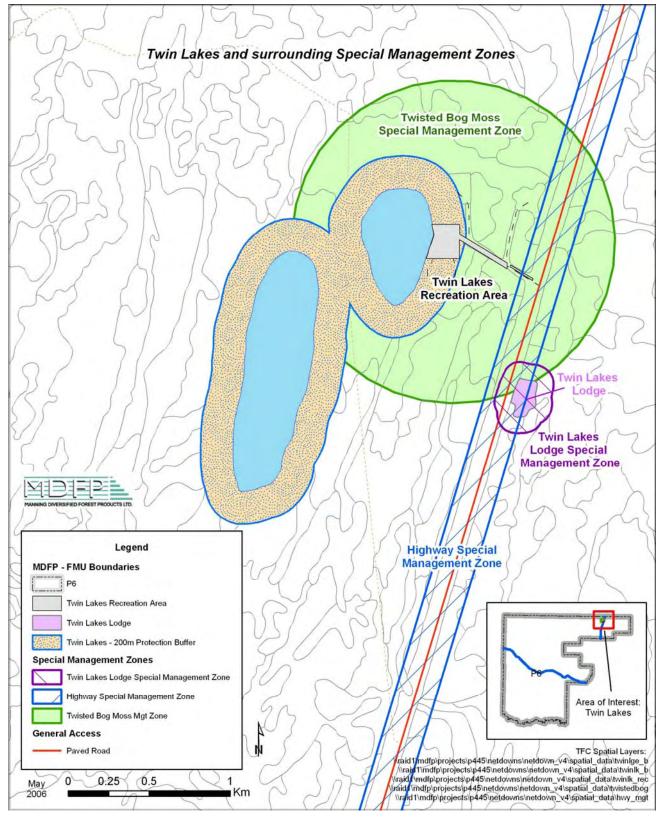


Figure 2-15. Map of Twin Lake area



2.11 Watershed Boundaries

The watershed boundaries were created for MDFP as part of a masters thesis project by Boyd Laing. It was received in June 2005 and approved for use by SRD in August 2005. The four original shapefiles were converted into one coverage and each watershed was assigned an arbitrary identification number (see Figure 2-16).

115

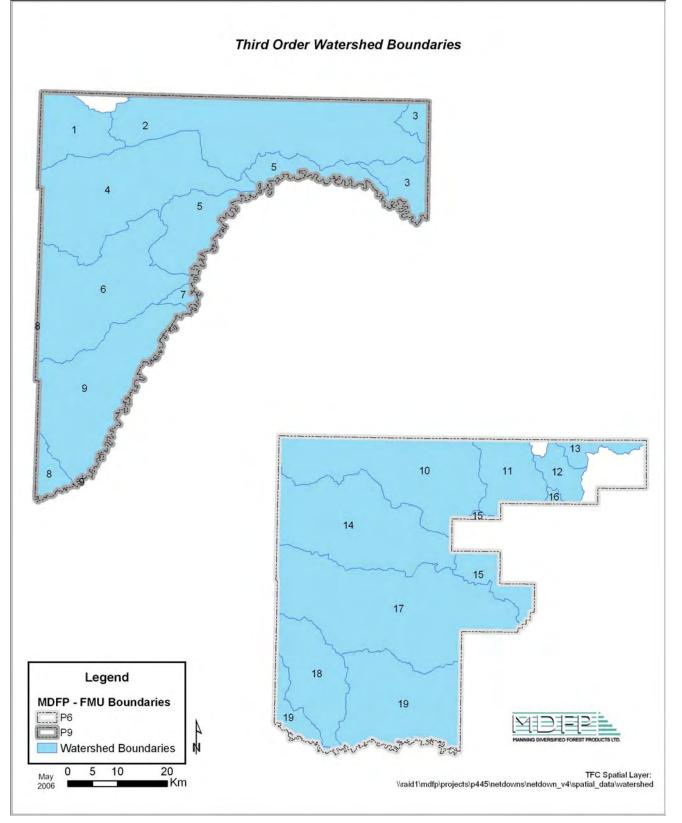


Figure 2-16. Map of watershed boundaries.



2.12 Hydrology Buffers

The hydrology buffers coverage was generated from multiple sources according to the rules in Table 2-4.

- Small rivers and creeks were buffered from the SRD SLNET coverage.
- Major rivers were buffered from linework extracted from the AVI and supplemental information from the SRD hydropolys coverage.
- Lakes were buffered from extracted AVI lakes.

These three buffered coverages were then unioned and dissolved to create the z_hydro coverage. Once the coverage was created, areas that were isolated by water buffers were identified and their area assigned to the isolated_ha field to allow deletions of isolated areas. The resulting hydrology buffers are indicated in Figure 2-17.

Table 2-4. Hydrology buffer widths.

Feature	Buffer Width (m)	Code
Perennial Streams	30	WATER
Oxbow Lakes	30	WATER
Major Rivers	60	WATER
Lakes	100	WATER
Twin Lakes	200	WATER
Swan Lakes	200	SWAN

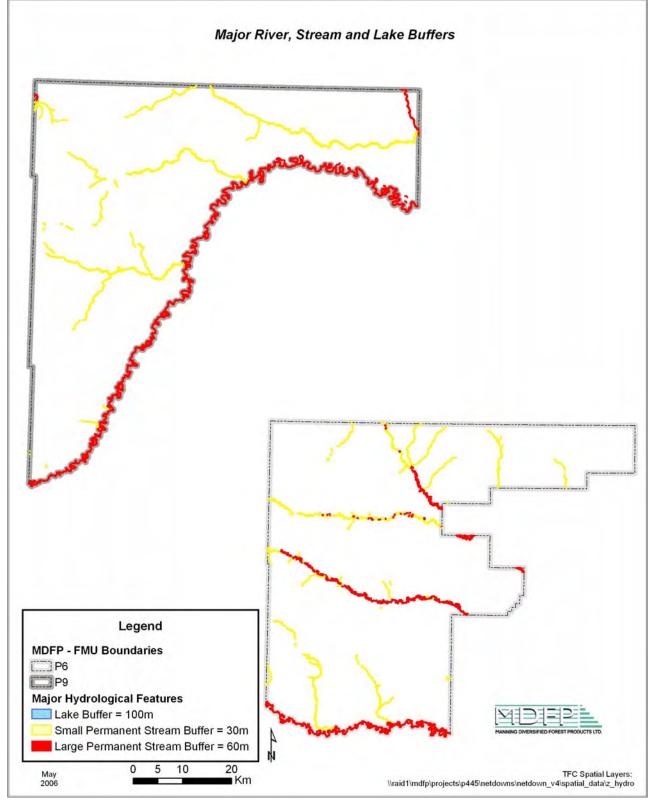


Figure 2-17. Map of hydrology buffers.



2.13 Landuse and Access

The landuse and access dataset includes roads, pipelines and wellsites that are not included in the AVI.

2.13.1 Processing

In addition to the AVI roads, there are two sources of road centerlines for update: GPS roads and Greenlink linear update. The GPS roads were assigned to width classes of 10, 15, 30 and 40 metres wide when the data was collected in the field. This information was used to classify the GPS roads into their appropriate widths for buffering. The roads updated by Greenlink were buffered according to information gathered at the time of interpretation. The buffer widths used are shown in Table 2-5.

Table 2-5. Landuse buffer widths.

Feature		ROW Width (m)	Code
Roads			
GPS		10, 15, 30 or 40	ROAD
Greenlink			
	Main Road	30	ROAD
	Gravel Road	15	ROAD
	Unimproved	8	ROAD
	Truck Trails	5 to 30	ROAD
Pipelines			
		20	PIPE

Oil and gas dispositions not present in the AVI were added to this input coverage. These came from the landuse coverage provided by Ezra Consulting Ltd. and the Greenlink update coverage. These datasets were filtered out for duplication in the AVI and each other.

Next the roads, pipelines and non-linear datasets were cleaned. This included removing polygons that currently exist in the AVI and excluding portions of roads and pipelines from the GPS data which varied slightly in alignment from the Ezra LOC or PLA features. Finally they were overlaid using Arc/Info regions and assigned a hierarchy based on the disposition type as shown in Table 2-6. Coverages containing MLL960106 and LSAS PNTs were also incorporated into the overall landuse/access dataset. Figure 2-18 shows the resulting landuse/assess features.

Table 2-6. Landuse hierarchy.

Rank	Disposition	Description
1	ROAD	LOC, other roads
2	PIPE	PLA, PIL
3	WELL	MSL
4	EZE	Anthropological Deletion
5	MLL	Anthropological Deletion
6	MLP	Anthropological Deletion
7	PNT	Protective Notations

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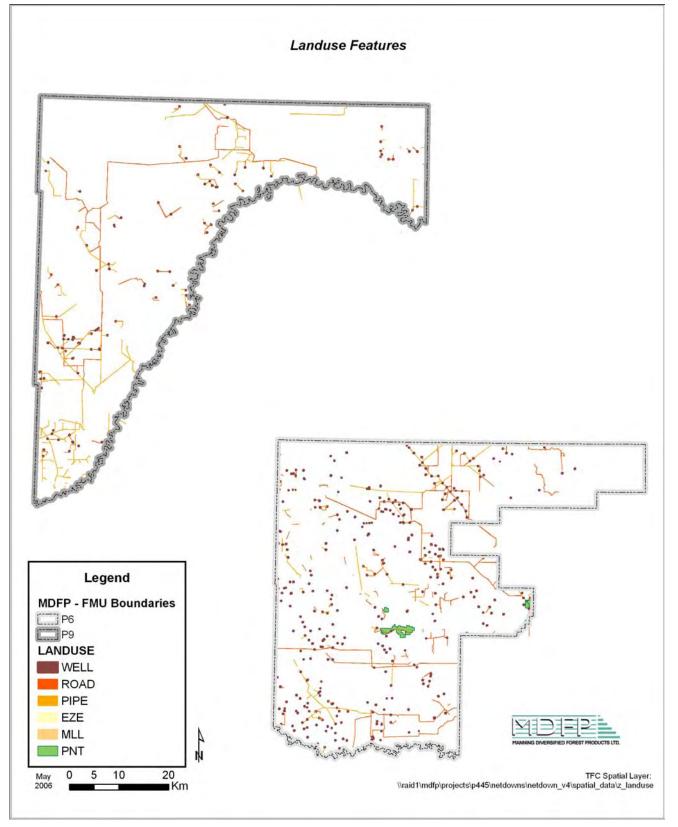


Figure 2-18. Map of landuse and access.



2.14 Seismic Lines

Seismic information for P6 is from the MDFP Library transport layer. P9 seismic information originated from the Greenlink landuse update. Further spatial updates from Greenlink and Ezra for both FMU's were also added and depletion width codes were added.

To assign depletion codes, all seismic arcs were first extracted from the linear update coverage. These arcs were then buffered and separate buffer coverages were produced with widths of 5, 10, 15, 20, 25 and 30 meters. The six buffer coverages were brought up on screen over digital orthophotos in different colors in the background and used as a depletion measurement guide. Once the depletion width was decided upon for each seismic line, the 'Depletion_Code' attribute was assigned. This procedure was carried out for each seismic arc, and visual quality check was completed for the entire area.

The final seismic coverages were unioned together and then buffered according to the depletion width specifications in Table 2-7. The final coverage is shown in Figure 2-19.

-	Code	Class	ROW Width (m)	Code
Cutlines				
	0	0 - 1	0	SEISMIC
	1	1.1 - 5	3.5	SEISMIC
	2	5.1 - 10	8	SEISMIC
	3	10.1 - 15	13	SEISMIC
	4	15.1 - 20	18	SEISMIC
	5	20.1 - 25	23	SEISMIC
	6	25.1 - 30	28	SEISMIC

Table 2-7. Seismic buffer widths.

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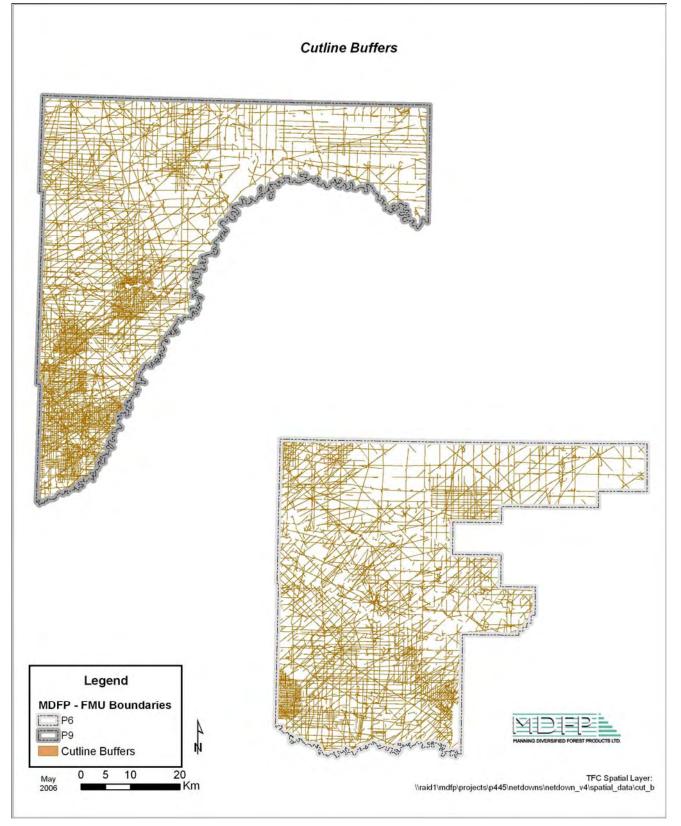


Figure 2-19. Map of seismic lines.



2.15 AVI Data Discrepancy

While compiling the different sources of data, an error in the P6 AVI was found. One polygon (Forestkey = 950260480) was labeled with ANTH_NON = AIH while the information provided by Greenlink showed this linear feature to be a pipeline (ANTH_NON should be CIP). This finding was confirmed by MDFP local knowledge. Unfortunately, this one polygon covered some actual road also, so it could not be re-coded to properly match the actual ground feature. This discrepancy is shown in Figure 2-20.

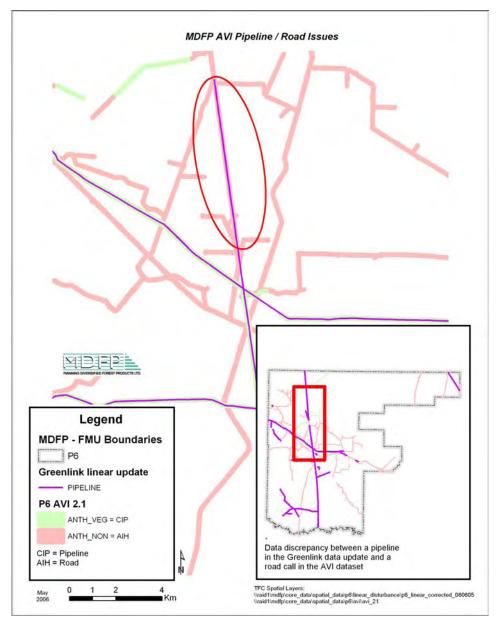


Figure 2-20. Map showing landuse discrepancy in AVI.

3. Spatial Data Processing

3.1 Overview

The landbase netdown process is shown conceptually in Figure 3-1. The processed data described in Section 2 are combined into one final dataset, where rules were applied to determine the final classifications.

3.2 Processing

ArcInfo technology was used to process the final source coverages identified in Section 2 to develop a final spatial coverage.

As shown in Figure 3-1, many of the submitted dataset coverages were first processed to create final Input Dataset coverages that are used in the landbase. Several were used to create buffer coverages, while others were reduced by selecting only the portions required of the original coverages. Four of the more general coverages had their attributes assigned to the AVI to allow their attributes to be carried through to the final coverage without adding any extra linework. The datasets that were added to the AVI are the following:

- Compartments,
- Natural Sub-Regions,
- Wildlife Management Zones (includes Caribou Zone),
- Breeding Regions,
- Alternative Patch Management Area.



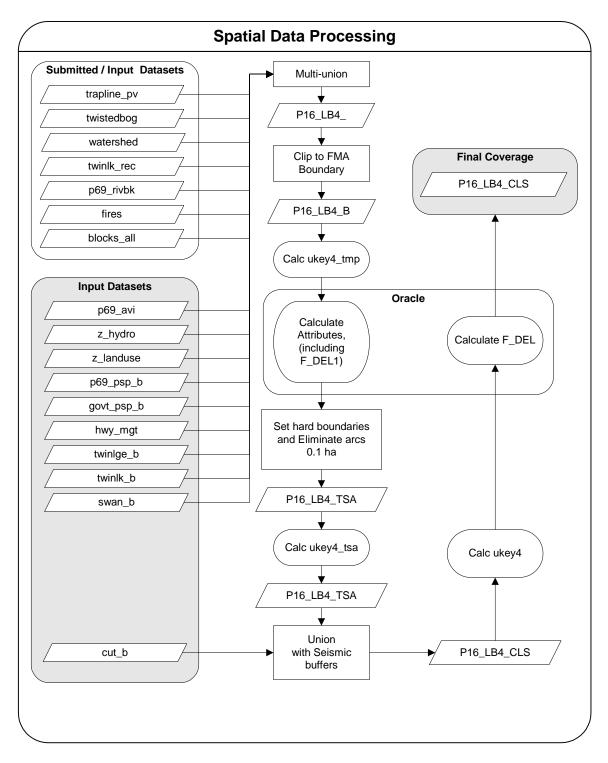


Figure 3-1. Landbase netdown process.

Once all of the input dataset coverages were prepared, the following steps were taken:

• Fuzzy tolerances were set to 0.001

Landbase Netdown

- Multi-union all input coverages except seismic buffers (multi-union = consecutive set of unions to combine several coverages into one coverage).
- Clip multi-union coverage with FMA boundary to remove extra data.
- Calculate: $UKEY4_TMP = P16_LB4_B\# 1$.
- Calculate the netdown attributes (with the exception of seismic) using Oracle.
- Bring calculated attributes back into the landbase coverage.
- Hard code arcs where the following attributes are different on each side to be 'fixed' and not allowed to be eliminated:
- *F_DEL1*, which included arcs between the operable and non-operable landbase,
- block boundaries,
- fire boundaries and
- MDFP PSP plots.
- Eliminate all polygons 0.1 ha or less on the slivers that were 'allowed' to be merged. KEEPEDGE option is used.
- Calculate $UKEY4_TSA = ((COMPART * 1000000) + (P16_LB4_TSA\# 1)).$
- Union the seismic buffer layer with the landbase.
- Calculate UKEY4 = ((COMPART * 1000000) + (P16_LB4_CLS# 1)).
- Calculate final deletion field (*F_DEL*) and *AREA_HA* in Oracle.
- Export back to coverage.

The process of adding *UKEY4_TSA* and *UKEY4* was undertaken to allow the landbase polygons to be reduced by the amount of area in the seismic coverage without adding the extra linework of the seismic. The landbase with the seismic is P16_LB4_CLS and the version without seismic is P16_LB4_TSA and will be used in the timber supply analysis and is discussed further within Section 6. Both are submitted for review.

Table 3-1 shows the change in the landbase deletions and Table 3-2 shows the change in operable landbase before and after the elimination of slivers and the overlay with the seismic coverage.

Table 3-1. Comparison of total landbase before and after eliminations.

	v4b		TSA			CLS	
	Base		Arc Elim (0.1	ha)	Add	l Seismic	Final LB
_		Change			Change		
Landbase Category	(ha)	(ha)	%	(ha)	(ha)	%	(ha)
Gross Landbase	595,677.2	0.0	0.0000%	595,677.2	0.0	0.0000%	595,677.2
Patented Land (D_STATUS)							
SRD PSP Buffer	239.1	0.0	0.0000%	239.1	0.0	0.0000%	239.1
Protected Areas	269.5	0.0	0.0000%	269.5	0.0	0.0000%	269.5
Total Patented Land	508.6	0.0	0.0000%	508.6	0.0	0.0000%	508.6
Running Sum of Area Deleted	508.6	0.0	0.0000%	508.6	0.0	0.0000%	508.6
Landbase Remaining	595,168.6	0.0	0.0000%	595,168.6	0.0	0.0000%	595,168.6
Access (D_ACCESS, D_SEISMIC)							
Roads	3,148.8	0.0	0.0000%	3,148.8	0.0	0.0000%	3,148.8
Pipelines	2,045.4	0.0	0.0000%	2,045.4	0.0	0.0000%	2,045.4
Seismic Lines	0.0	0.0	0.0000%	0.0	11,479.5	100.0000%	11,479.5
Total Access	5,194.2	0.0	0.0000%	5,194.2	11,479.5	221.0078%	16,673.7
Running Sum of Area Deleted	5,702.8	0.0	0.0000%	5,702.8	11,479.5	201.2973%	17,182.3
Landbase Remaining	589,974.4	0.0	0.0000%	589,974.4	-11,479.5	-1.9458%	578,494.9
Non-Forested (D_NONFOR)							
Water Body	3,800.1	0.0	0.0000%	3,800.1	-1.6	-0.0433%	3,798.4
Anthropogenic Non-Vegetated	1,835.4	0.0	0.0000%	1,835.4	-119.7	-6.5198%	1,715.7
Non-Forested	59,117.4	0.0	0.0000%	59,117.4	-1,204.2	-2.0369%	57,913.3
Naturally Non-Vegetated	7,920.5	0.0	0.0000%	7,920.5	-114.6	-1.4475%	7,805.8
Total Non-Forested	72,673.4	0.0	0.0000%	72,673.4	-1,440.1	-1.9816%	71,233.3
Running Sum of Area Deleted	78,376.1	0.0	0.0000%	78,376.1	10,039.4	12.8092%	88,415.5
Landbase Remaining	517,301.0	0.0	0.0000%	517,301.0	-10,039.4	-1.9407%	507,261.6
Recent Burns (D BURN)					,		
Recent Burn	330.1	0.0	0.0000%	330.1	-9.6	-2.8994%	320.5
Total Burn	330.1	0.0	0.0000%	330.1	-9.6	-2.8994%	320.5
Running Sum of Area Deleted	78,706.2	0.0	0.0000%	78,706.2	10.029.8	12.7434%	88,736.1
Landbase Remaining	516,970.9	0.0	0.0000%	516,970.9	-10,029.8	-1.9401%	506,941.1
Non-Productive (D_TPR)							
Unproductive	2,003.2	0.0	0.0000%	2,003.2	-28.2	-1.4080%	1,975.0
Decid TPR = F	2,935.8	0.0	0.0000%	2,935.8	-54.6	-1.8600%	2,881.2
Total Non-Productive	4,939.0	0.0	0.0000%	4,939.0	-82.8	-1.6766%	4,856.2
Running Sum of Area Deleted	83,645.3	0.0	0.0000%	83,645.3	9,947.0	11.8919%	93,592.3
Landbase Remaining	512,031.9	0.0	0.0000%	512,031.9	-9,947.0	-1.9427%	502,084.9
Water Buffers (D BUF)	012,0010	010	0.000070	012,00119	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	119 127 /0	502,0010
River Breaks	23,243.8	0.0	0.0000%	23,243.8	-212.9	-0.9161%	23,030.9
Swan Lake Buffer	140.9	0.0	0.0000%	140.9	-4.0	-2.8430%	136.9
Water Buffers	1.286.9	0.0	0.0000%	1.286.9	-29.7	-2.3051%	1,257.3
Total Water Buffers	24,671.7	0.0	0.0000%	24,671.7	-246.6	-0.9996%	24,425.1
Running Sum of Area Deleted	108,317.0	0.0	0.0000%	108,317.0	9,700.4	8.9556%	118,017.4
Landbase Remaining	487,360.2	0.0	0.0000%	487,360.2	-9,700.4	-1.9904%	477,659.8
Subjective Deletions (D_SUBJ, D_ISO)	407,500.2	0.0	0.000070	407,500.2	9,700.4	1.990470	477,057.0
Wetland	173,725.1	0.0	0.0000%	173,725.1	-3,791.4	-2.1824%	169,933.7
A Density Stands	8,333.9	0.0	0.0000%	8,333.9	-179.2	-2.1502%	8,154.7
Larch	94.0	0.0	0.0000%	94.0	-179.2	-2.2794%	91.8
Sb Leading and TPR < G	2.727.7	0.0	0.0000%	2.727.7	-45.2	-1.6583%	2,682.5
Caribou/APMA Black Spruce	345.1	0.0	0.0000%	345.1	-43.2	-1.5273%	339.8
Caribou/APMA Black Spruce	1,180.8	0.0	0.0000%	1,180.8	-3.5	-1.2378%	1,166.2
Caribou/APMA White Spruce Caribou/APMA Lodgepole Pine	0.0	0.0	0.0000%	0.0	-14.6	0.0000%	0.0
Isolated Stands	0.0	0.0	0.0000%	0.0	0.0	0.0000%	0.0
		0.0					
Total Subjective Deletions	186,406.5		0.0000%	186,406.5	-4,037.8	-2.1661%	182,368.7
Total Area Deleted	294,723.5	0.0	0.0000%	294,723.5	5,662.6	1.9213%	300,386.1
Active Landbase	300,953.7	0.0	0.0000%	300,953.7	-5,662.6	-1.8815%	295,291.1

	v4b base		TSA Arc Elim (0.1 ha)			S ismic	CLS Final LB
			change	_	cha	nge	
Strata	(ha)	(ha)	%	(ha)	(ha)	%	(ha)
D	73,256.8	2.8	0.00092%	73,259.6	-1,506.9	-0.51%	71,752.8
DU	100,623.9	22.9	0.00762%	100,646.9	-1,757.2	-0.60%	98,889.7
DC	6,330.8	-0.9	-0.00031%	6,329.8	-125.1	-0.04%	6,204.7
DCU	14,044.7	1.3	0.00042%	14,045.9	-237.4	-0.08%	13,808.5
CD	10,983.7	-0.6	-0.00021%	10,983.1	-212.3	-0.07%	10,770.8
CDU	7,880.0	-1.0	-0.00032%	7,879.0	-123.5	-0.04%	7,755.5
PL	27,019.1	0.5	0.00016%	27,019.6	-609.1	-0.21%	26,410.5
SB	4,353.9	-6.7	-0.00224%	4,347.2	-87.1	-0.03%	4,260.0
SW	56,460.7	-18.2	-0.00604%	56,442.5	-1,003.9	-0.34%	55,438.6
Total	300,953.7	0.0	0.00000%	300,953.7	-5,662.6	-1.92%	295,291.1

Table 3-2. Comparison of operable landbase before and after elimination, by yield strata.

4. Attribute Processing

4.1 Overview

This section describes the attribute assignments that were performed once the landbase file was created. These attributes make the review of the final landbase more concise and makes it simpler to determine stand attributes.

4.2 AVI Stratification

This section describes the calculations done on the AVI attributes to assign yield strata. All of the coding described in this section was completed using SAS. The result of this code is a file called **ycstrata** which allowed the information to be passed along to the Oracle processing.

4.2.1 Copy AVI Attributes to Modified Fields

Certain fields were copied to 'modified' fields to allow modifications in later stages (Figure 4-1).



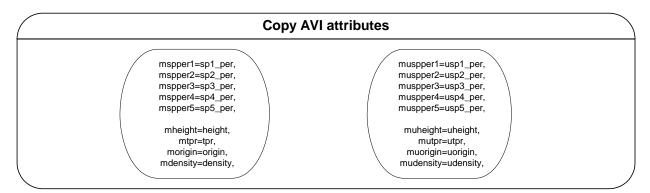


Figure 4-1. Copy AVI attributes to 'modified' fields.

4.2.2 Species Standardization

AVI species calls were converted to full uppercase. Furthermore, some species were grouped together to facilitate faster processing. The $\{i\}$ indicates that this is repeated for each of the 5 species codes in each the overstory and understory (Figure 4-2 and Figure 4-3).

Landbase Netdown

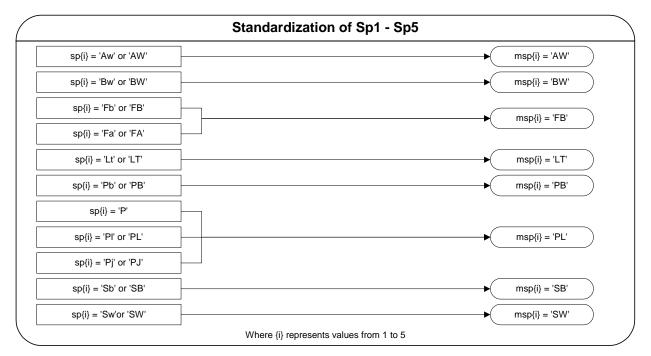


Figure 4-2. Standardization of overstory species

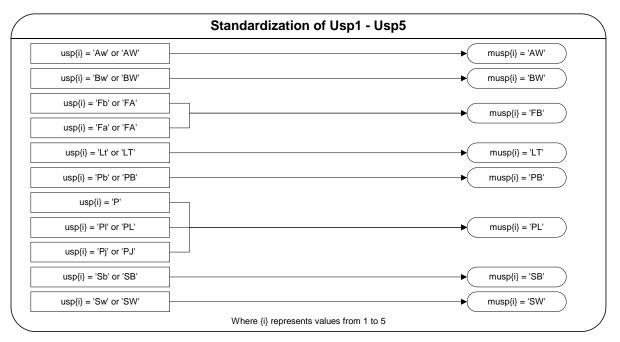


Figure 4-3. Standardization of understory species.

4.2.3 Species Percent

The species percent is used to determine strata groups in later steps. There are four fields that are calculated in this step; *DECID*, *CONIFER*, *UDECID* and *UCONIFER*. They are simply the sum of all

Landbase Netdown

deciduous percentages and the conifer percentages for both the overstory and the understory (Figure 4-4). The {i} indicates that this is repeated for each of the 5 species codes in each the overstory and understory.

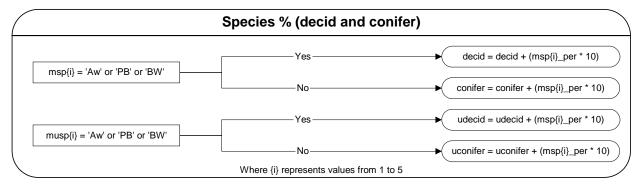


Figure 4-4. DECID, CONIFER, UDECID, UCONIFER - species percentages

4.2.4 STORY_USED – Defining Layer

The next step in AVI processing was to assign a single string of AVI attributes to each forest polygon. While there are a variety of stand structures on the landscape (single layer, multi-layer, etc.), each polygon was described by a single set of attributes which came from the *defining* layer of the polygon. The definition of *defining* layer depended on the polygon stand structure. The field STORY_USED indicates the results of this calculation. Descriptions of the valid entries are found in Table 4-1. Figure 4-5 details the logic, which can be summarized as follows:

- Single Story For single story stands, the *defining* layer was the single story.
- Complex Stands There were no complex stand structures in the AVI for the FMA Area.
- Horizontal Stands There were no horizontal stands in P6 or P9 AVI.
- Multi-story Stands For multi-storied stands, the AVI overstory (layer 1) was used as the *defining* layer with one exception. Open overstory and veteran stands with a productive understory were identified and the understory information was used as the *defining* layer. These are stands where 'A' density overstory was present with a productive, forested understory.

Once the *STORY_USED* field is determined, it is used as the defining layer in all other calculations. One exception to note however, is the *STORY_USED* field is modified from a 3 to a 1 in certain cases as outlined in Section 4.4.7.

Table 4-1. Description of the values in STORY_USED field.

Story_Used	Description
0	Non-Forested or A-density deletion
1	Layer 1 only is used
2	Layer 2 becomes dominant layer
3	Layer 1 is used with Layer 2 as understory

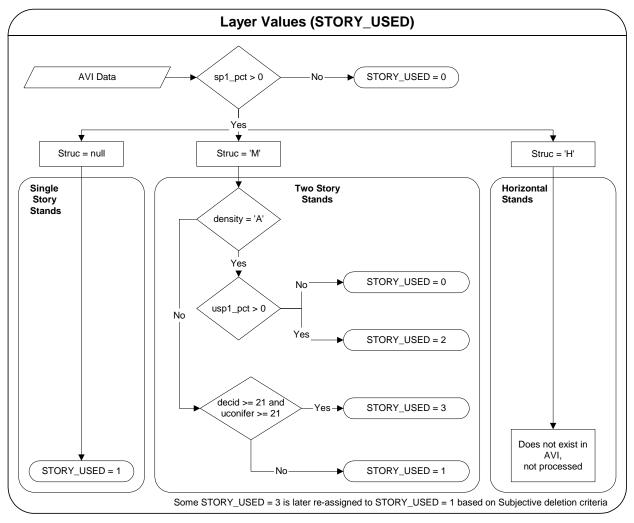


Figure 4-5. STORY_USED - assigning the 'defining' layer to AVI polygons.

4.2.5 Re-assign AVI for *STORY_USED* = 2

Table 4-1 defines the values in the *STORY_USED* field. When *STORY_USED* = 2, the overstory is an A density and the understory is a valid forested stand (Figure 4-6). As such, the overstory information was overwritten by the understory information to allow easier processing in later steps.



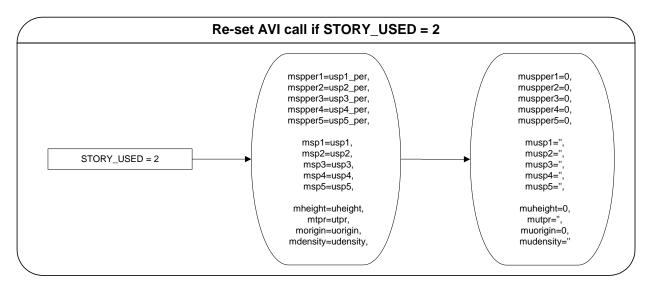


Figure 4-6. Re-assign AVI for STORY_USED = 2

4.2.6 Understory Strata Group

Strata group for the understory are assigned based on the udecid and uconifer fields (Figure 4-7).

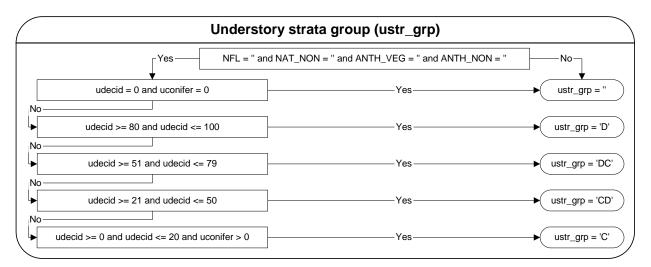


Figure 4-7. USTR_GRP - understory strata group.

4.2.7 Overstory Strata Group

Strata group for the understory are assigned based on the decid and conifer fields, as well as the *STORY_USED* field, as indicated in Figure 4-8.

Landbase Netdown

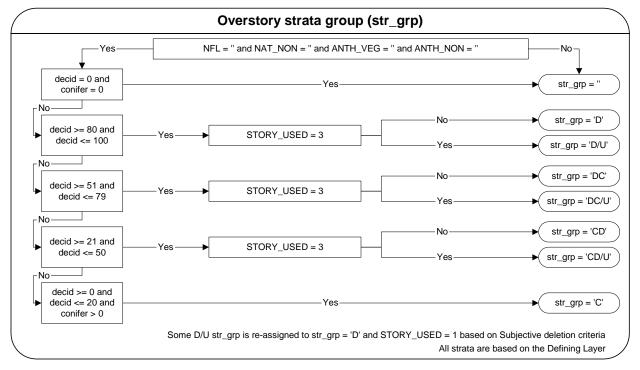
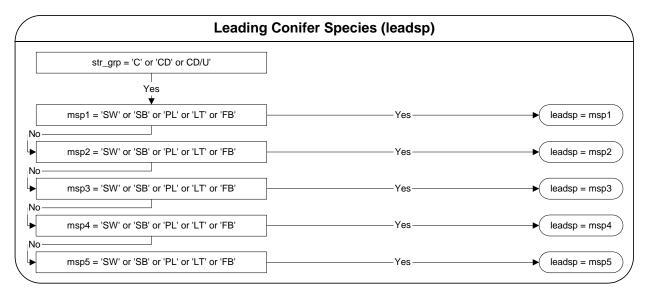
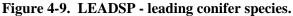


Figure 4-8. STR_GRP - overstory strata group.

4.2.8 Leading Conifer Species

Leading conifer species was determined from the defining layer as outlined in Figure 4-9.





4.2.9 Understory Leading Conifer Species

Understory leading conifer species was determined from the understory layer as outlined in Figure 4-10.



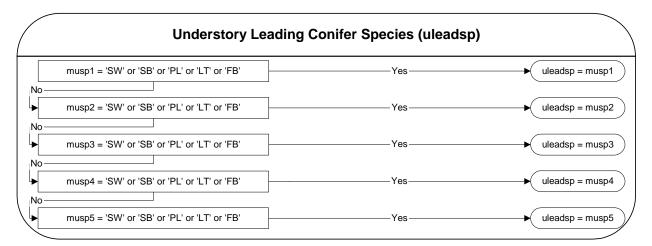


Figure 4-10. ULEADSP - understory leading conifer species.

4.3 TSA Items

The TSA items supply information to the timber supply analysis and do not indicate operability in the landbase. It is important to note at this point that the D_TPR and most D_SUBJ deletions were calculated prior to the calculation of the TSA items in section 4.3. D_TPR and D_SUBJ are presented in Section 4.4.7 along with the other deletion fields.

4.3.1 LANDBASE and F_YC - Landbase and Yield Strata

For existing harvest blocks, updated information in addition to AVI was available to assign yield strata (e.g. Polygon update in Appendix I, Appendix II and Appendix III). The polygons with updated information are assigned first based on block designations. The remaining yield strata are assigned on the basis of the cover group and density class of the *defining* layer of each forest polygon. Conifer and deciduous landbase assignments are based on the yield strata designation. The flow of these assignment decisions is shown in Figure 4-11.

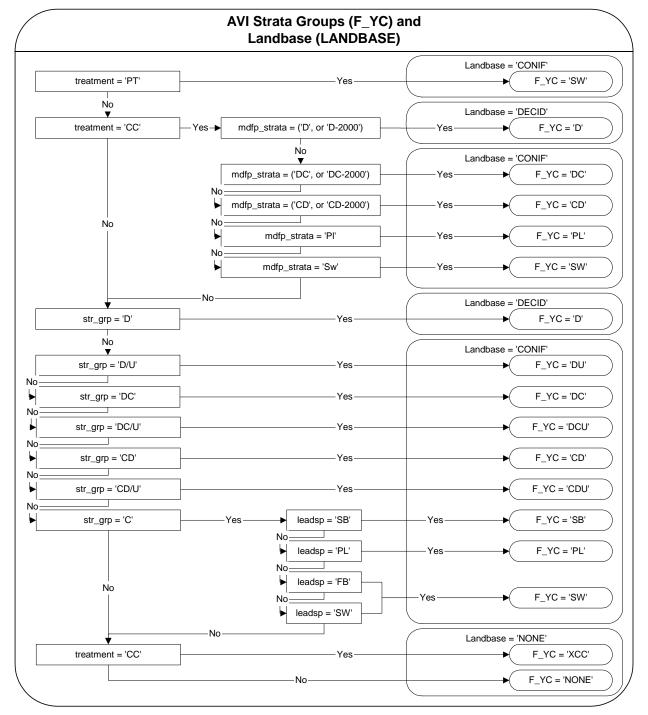
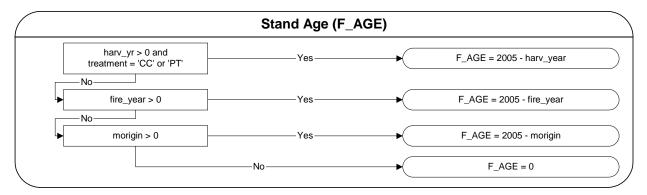


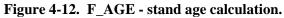
Figure 4-11. LANDBASE and F_YC - yield strata and landbase calculations.

4.3.2 F_AGE - Stand Age

Stand age (F_AGE) in years was calculated as 2005 (FMP base year) minus the stand origin for the *defining* layer for all areas except historic blocks. For historical blocks, the age was calculated as 2005

minus the year of cut. For recent fires not captured in the AVI, the age was calculated as 2005 minus the fire year. Figure 4-12 summarizes this calculation.





4.3.3 *F_DEN* - Density

Density was calculated based on the defining layer. If a previously harvested area did not have a density, then it was assigned to 'CD'. The four density categories were 'A', 'B', 'CD' and 'NONE'. This calculation is shown in Figure 4-13.

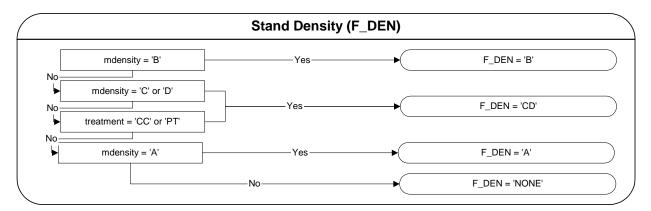


Figure 4-13. F_DEN - stand density calculation.

4.3.4 AREA_HA - Area

AREA_HA was calculated simply to convert the Arc/Info area from square metres into hectares. This calculation is shown in Figure 4-14.

Area in Hectares (AREA_HA)						
area	<u>}</u> ►	AREA_HA = area / 10,000	\supset			

Figure 4-14. AREA_HA - area calculation.

4.3.5 F_MGT - Management Zones

Management zones are used to identify items which **may** be included in the timber supply to control the amount or timing of timber harvest. These include the following:

- MDFP PSP plots that may be open to harvest in 10 years,
- Twin Lake Lodge Management Zone which may be open to partial or thinning operations,
- Highway Management Zone which may be open to timber harvest operations,
- Twisted Bog Moss Zone is open for harvesting in limited amounts.

The calculations used are shown in Figure 4-15. Some of these areas were generated by applying a buffer. The buffer widths are shown in Table 4-2.

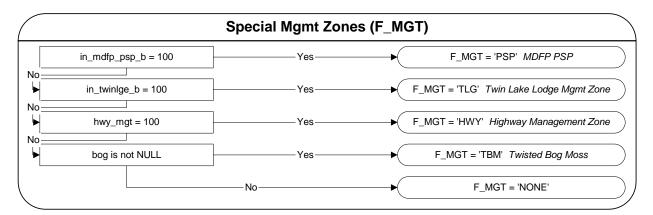


Figure 4-15. F_MGT - special management zone calculation.

Table 4-2. Management zone buffer widths.

Feature	Buffer Width (m)	Code
MDFP PSP	100	PSP
Twin Lake Lodge	100	TLG
Twisted Bog Moss	1000	TBM
Highways	125	HWY

4.3.6 F_WILD – Wildlife Management Zones

Further to the special management zones, several wildlife zones have been identified. These include the following:

- Caribou Zone,
- Ungulate Zone,



• Special Access Zone.

The calculations used to define the zones are shown in Figure 4-16.

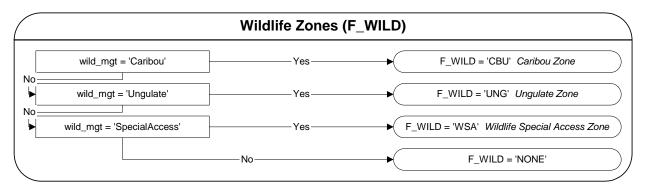


Figure 4-16. F_WILD - wildlife zone designation calculation.

4.3.7 F_CBU – Alternative Patch Management Area

The Alternative Patch Management Area was assigned as shown in Figure 4-17.

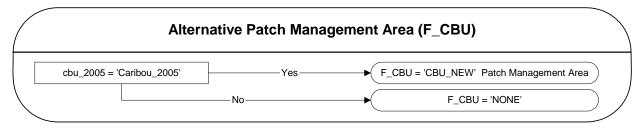


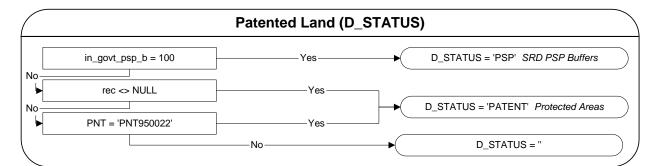
Figure 4-17. F_CBU - Alternative Patch Management Area.

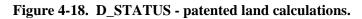
4.4 Landbase Exclusions

Landbase exclusions are calculated to show the areas that are removed from the operable landbase. These indicate areas that are considered not operable for the timber supply analysis and are not available for harvesting (i.e., Passive Landbase).

4.4.1 *D_STATUS* - Patented Land Deletions

Patented land deletions are areas that are protected by Alberta Government PNT legislation. These include Alberta Government PSP's and their buffers, as well as any other patented land. The Government PSP's have a square buffer around them which is $318m \times 318m$. Figure 4-18 shows the attributes used to calculate D_STATUS .





4.4.2 *D_ACCESS* - Access Deletions

Access deletions include roads and pipelines that are used to access natural resources. Figure 4-19 shows the criteria used to calculate D_ACCESS .

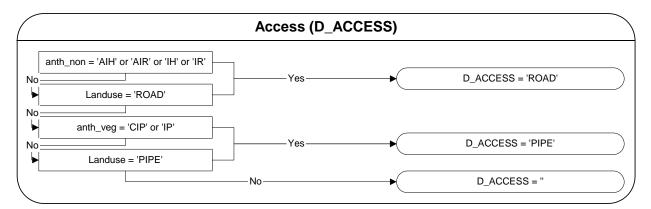


Figure 4-19. D_ACCESS - access deletion calculations.

4.4.3 *D_SEISMIC* – Seismic Deletions

Figure 4-20 shows the criteria used to calculate the seismic deletions ($D_SEISMIC$). These are kept separate in the timber supply to remove the spatial boundaries of the seismic features and instead include a non-spatial area reduction in the final timber supply landbase.



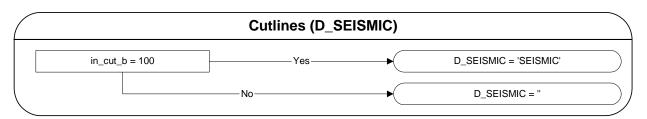


Figure 4-20. D_SEISMIC - cutline deletion calculations.

4.4.4 *D_NONFOR* - Non-forested Deletions

Non-forested deletions include features such as water bodies, anthropogenic (man-made) features, and naturally non-forested and non-vegetated areas. Figure 4-21 shows the attributes used to calculate D_NONFOR .

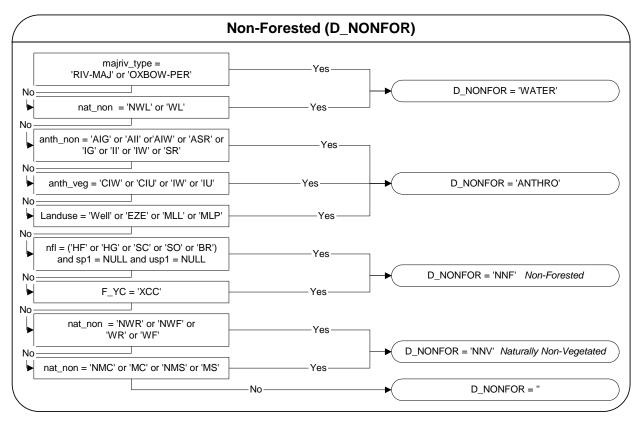


Figure 4-21. D_NONFOR - non-forested deletion calculation.

4.4.5 *D_BURN* - Burned Area Deletions

Recent burns are removed from the landbase unless the AVI has a valid species call. As the AVI is updated to 2001, the fires from 2002 to 2004 were cut in to update the AVI to September 2005 and supplement the fire information within the AVI. Figure 4-22 shows the attributes used to calculate D_BURN .

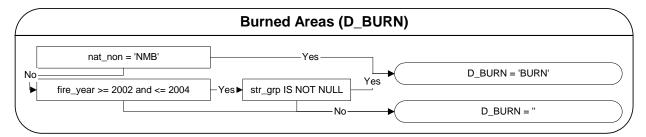


Figure 4-22. D_BURN - burned area deletion calculation.

4.4.6 *D_BUF* - Water Course Buffer Deletions

Operating ground rules stipulate that water feature buffers will be removed from the operable landbase. In addition to the standard ground rule buffers, MDFP has also removed the area within significant river bank breaks and around trumpeter swan nesting lakes.

During processing of the landbase, 33 polygons were found to not have a forestkey. On visual examination, all of these polygons were 'buffers' on islands along the south boundary of P9. These polygons were assigned to the water buffer category.

Table 4-3 shows the buffer widths for the water features. Figure 4-23 shows the attributes used to calculate D_BUF .

Table 4-3. Buffer widths for water features.

Feature	Buffer Width (m)	Code
Perennial Streams	30	WATER
Oxbow Lakes	30	WATER
Major Rivers	60	WATER
Lakes	100	WATER
Twin Lakes	200	WATER
Swan Lakes	200	SWAN



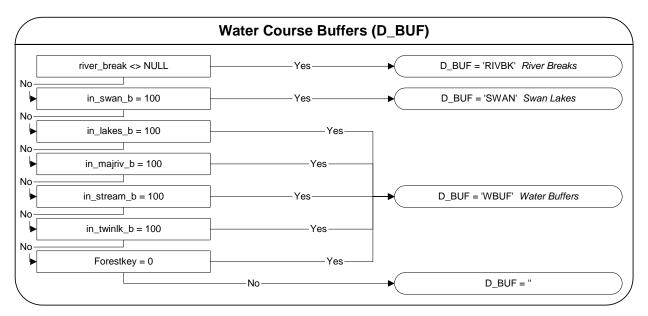


Figure 4-23. D_BUF - water course buffer deletion calculation.

4.4.7 *D_SUBJ* and *D_TPR* - Subjective and TPR Deletions

Subjective deletions and TPR deletions were calculated using SAS and the AVI as it existed at the time it was processed for yield curve development. They are presented here to improve understanding of the landbase netdown process.

The deletions used were dependant on the strata type. Conifer and mixedwood types have one set of rules, deciduous with understory has another, and pure deciduous has a third set. Figure 4-24 shows the attributes used and the decisions required to calculate D_TPR and D_SUBJ , (note that many stands were already assigned $D_SUBJ =$ 'ADEN' as indicated in Section 4.2).

It should be emphasized that when a D/U stand does not meet the requirements for retention in the conifer landbase, it becomes part of the deciduous landbase and part of the D strata.

May 31, 2007

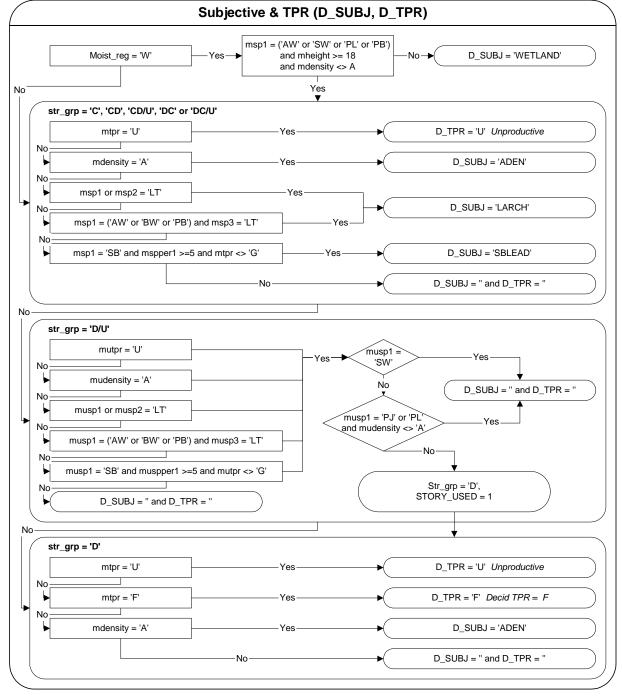


Figure 4-24. D_SUBJ and D_TPR - subjective and TPR deletion calculations.

Additional changes were made to the D_SUBJ field in Oracle to allow the deletion of certain stands in the P6 Caribou Zone and Alternative Patch Management Area. In the P6 Caribou Zone and Alternative Patch Management Area, all black spruce stands regardless of age and moisture regime were deleted. All white spruce and lodgepole pine stands on wet sites and are older than 95 years old were also deleted (see Figure 4-25).





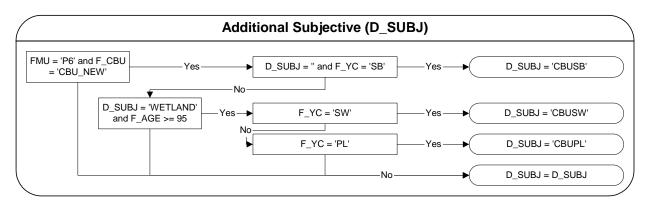


Figure 4-25. D_SUBJ - additional subjective deletion calculation within Alternative Patch Management Area in FMU P6.

4.4.8 D_ISO – Isolated Stands

Isolated stands created by interior spaces completely surrounded by water buffers or water features are identified in the landbase. Only contiguous areas less than 1 ha were selected for removal from the operable landbase. Figure 4-26 shows the fields used to calculate the isolated stands. The original fields were created when the water buffer coverage was generated, to allow the selection of the polygons before they were potentially split by other linework in the overlay process.

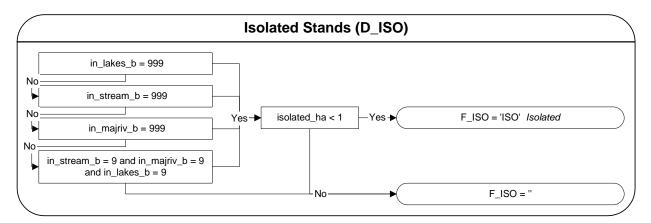


Figure 4-26. D_ISO - isolated stand deletion calculation.

4.5 Netdown Attributes

4.5.1 F_DEL – Netdown Hierarchy

The hierarchy part of the netdown process populates the F_DEL and F_DEL1 fields with the appropriate code from the 'D_' deletion attribute. It is based on a hierarchy of deletions, so that a deleted polygon is only accounted for in one category, based on which deletion type is higher in the hierarchy. Table 4-4 shows the hierarchy used in the MDFP landbase, with the lower numbers indicating a higher priority. In all of the descriptions, F_DEL1 is calculated by simply omitting the seismic category while all other attributes are the same.

C	ategory	Value			
Priority	Field	Priority	Name	Description	
1	D_STATUS	1	PSP	SRD PSP Buffer	
		2	PATENT	Protected Areas	
2	D_ACCESS	3	ROAD	Roads	
		4	PIPE	Pipelines	
3	D_SEISMIC	5	SEISMIC	Seismic Lines	
4	D_NONFOR	6	WATER	Water Body	
		7	ANTHRO	Anthropogenic Non-Vegetated	
		8	NNF	Non-Forested	
		9	NNV	Naturally Non-Vegetated	
5	D_BURN	10	BURN	Recent Burn	
6	D_TPR	11	U	Unproductive	
		12	F	Decid TPR = F	
7	D_BUF	13	RIVBK	River Breaks	
		14	SWAN	Swan Lake Buffer	
		15	WBUF	Water Buffers	
8	D_SUBJ	16	WETLAND	Wetland	
	_	17	ADEN	A Density Stands	
		18	LARCH	Larch	
		19	SBLEAD	Sb Leading and TPR < G	
9	D_ISO	20	ISO	Isolated Stands	

Table 4-4. Priority listing for netdown hierarchy.

Each category is examined for values and if it is not null, then the F_DEL field is assigned to the corresponding deletion category. Once the polygon is assigned a value, it is no longer assigned a value from any subsequent fields. If none of the deletion fields have a value, then the polygon is assigned a 'NONE' in the F_DEL field which indicates that it is part of the active landbase. The decision criteria for the deletion hierarchy is presented in Figure 4-27.



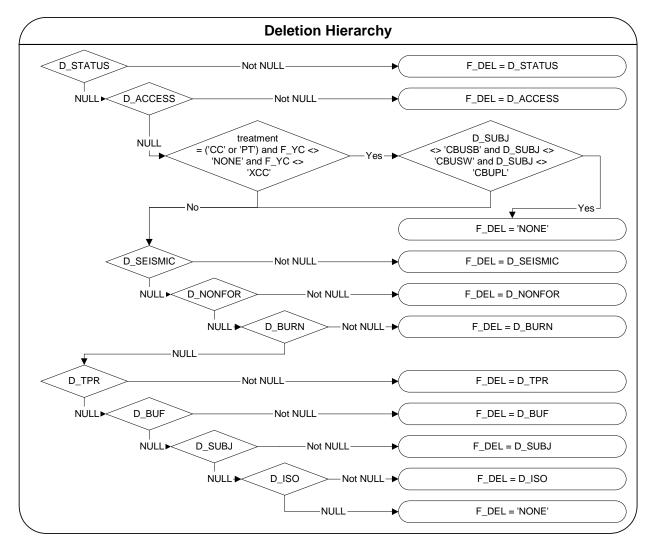


Figure 4-27. F_DEL - deletion hierarchy calculation.

5. Landbase Netdown Results

The final classified landbase for MDFP consists of 274,084 polygons. Table 5-1 shows the breakdown by FMU and landbase category resulting from the netdown process. The column F_DEL in the netdown landbase dataset reflects the classification from Table 5-1 and will duplicate these results when summarized by the *AREA_HA* field. Table 5-2 shows the active landbase by FMU, yield strata and special management zone.



Table 5-1. P6 and P9 landbase summary.

			Area (ha)		% Gross	
Landbase Category		FMU P6	FMU P9	Total	Area	
Gross Landl	base	297,531	298,147	595,677	100%	
Patented La	and (D_STATUS)					
PSP	SRD PSP Buffer	239	0	239	0%	
PATENT	Protected Areas	270	0	270	0%	
Total Patent	ed Land	509	0	509	0%	
Running Su	m of Area Deleted	509	0	509	0%	
Landbase R		297,022	298,147	595,169	100%	
Access (D_A	ACCESS, D_SEISMIC)					
ROAD	Roads	2,394	755	3,149	1%	
PIPE	Pipelines	1,037	1,009	2,045	0%	
SEISMIC	Seismic Lines	5,154	6,326	11,479	2%	
Total Acces	8	8,584	8,089	16,674	3%	
Running Su	m of Area Deleted	9,093	8,089	17,182	3%	
Landbase R	emaining	288,438	290,057	578,495	97%	
Non-Forest	ed (D_NONFOR)					
WATER	Water Body	3,163	635	3,798	1%	
ANTHRO	Anthropogenic Non-Vegetated	997	718	1,716	0%	
NNF	Non-Forested	36,934	20,979	57,913	10%	
NNV	Naturally Non-Vegetated	3,670	4,136	7,806	1%	
Total Non-Forested		44,765	26,468	71,233	12%	
Running Su	m of Area Deleted	53,858	34,558	88,416	15%	
Landbase Remaining		243,673	263,589	507,262	85%	
Recent Bur	rns (D_BURN)					
BURN	Recent Burn	319	2	321	0%	
Total Burn		319	2	321	0%	
Running Su	m of Area Deleted	54,177	34,559	88,736	15%	
Landbase R	emaining	243,354	263,587	506,941	85%	
Non-Produ	ctive (D_TPR)					
U	Unproductive	1,790	185	1,975	0%	
F	Decid TPR = F	1,106	1,776	2,881	0%	
Total Non-F	Productive	2,896	1,960	4,856	1%	
Running Su	m of Area Deleted	57,073	36,520	93,592	16%	
Landbase R		240,458	261,627	502,085	84%	
Water Buff	Cers (D_BUF)					
RIVBK	River Breaks	8,384	14,647	23,031	4%	
SWAN	Swan Lake Buffer	137	0	137	0%	
WBUF	Water Buffers	639	618	1,257	0%	
Total Water	Buffers	9,160	15,265	24,425	4%	
Running Su	m of Area Deleted	66,233	51,785	118,017	20%	
Landbase R	emaining	231,298	246,362	477,660	80%	
Subjective 1	Deletions (D_SUBJ, D_ISO)					
WETLAND	Wetland	54,160	115,774	169,934	29%	
ADENS	A Density Stands	3,071	5,084	8,155	1%	
LARCH	Larch	70	22	92	0%	
SBLEAD	Sb Leading and TPR < G	1,835	847	2,682	0%	
CBUSB	APM Area Black Spruce	340	0	340	0%	
CBUSW	APM Area White Spruce	1,166	0	1,166	0%	
CBUPL	APM Area Lodgepole Pine	0	0	0	0%	
ISO	Isolated Stands	0	0	0	0%	
Total Subje	ctive Deletions	60,641	121,727	182,369	31%	
Total Area I		126,874	173,512	300,386	50%	
Active Land		170,657	124,634	295,291	50%	

FMU	Strata	No Special Mgt (ha)	Greenlink PSP (ha)	Highway Mgmt Zone (ha)	Twin Lake Lodge Mngm Zone (ha)	Twisted Bog Moss Mngm Zone (ha)	Total (ha)
P6							
	D	11,678	40	69	2	83	11,872
	DU	74,237	295	370	5	34	74,941
	DC	3,560	12	18	-	-	3,590
	DCU	9,376	41	50	-	6	9,474
	CD	8,634	45	34	-	12	8,725
	CDU	5,422	29	21	-	-	5,472
	PL	7,645	28	8	-	3	7,684
	SB	2,404	9	-	-	-	2,414
	SW	46,135	159	187	-	4	46,484
	P6 Total	169,092	659	757	6	143	170,657
P9							
	D	59,590	196	94	-	-	59,880
	DU	23,877	69	3	-	-	23,949
	DC	2,610	5	-	-	-	2,614
	DCU	4,321	14	-	-	-	4,335
	CD	2,041	4	-	-	-	2,045
	CDU	2,280	4	-	-	-	2,283
	PL	18,667	57	3	-	-	18,726
	SB	1,841	1	5	-	-	1,847
	SW	8,939	15	-	-	-	8,954
	P9 Total	124,165	365	104	-	-	124,634
Grand To	otal	293,257	1,024	861	6	143	295,291

Table 5-2. FMU and strata area by management zone.

5.1 Netdown Data Documentation

The final classified landbase (**p16_lb4_cls**) contains the results of all the analyses described in this landbase netdown documentation. It also contains the complete AVI polygon description for both layers of each stand. The final coverage contains four types of information:

- Flags for the spatial data elements so the user can identify lands contained in buffers, deletions, blocks and in various geoadministrative boundaries.
- The complete AVI attribute string for all layers of the polygons.
- Block attributes (regeneration status, species strata, etc.).
- Derived fields to be used in the timber supply (cover group, yield strata, etc.).

A complete data dictionary of the netdown file is presented in Appendix VI.

6. TSA Landbase

The TSA Landbase is similar to the Classified (CLS) landbase in many ways, but is modified to allow faster processing in the timber supply models (Woodstock and Patchworks). As noted in Section 3.2, the TSA Landbase coverage is created as an intermediate step when creating the CLS landbase. This section describes the further attribute calculations for the fields that are required for modeling. All steps in this section are performed in Oracle which maintains the record count and the spatial integrity of the TSA landbase coverage. Figure 6-1 gives an overview of the steps taken to create the TSA Landbase.



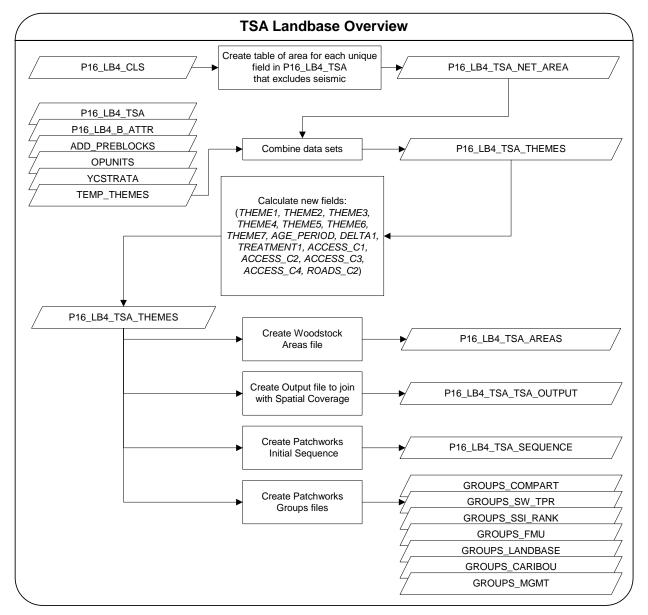


Figure 6-1. TSA landbase processing overview.

6.1 Attribute Table Creation

Before the TSA Landbase attributes were calculated, several tables were created as shown in the subsections below.

6.1.1 Reducing area for Seismic – p16_lb4_tsa_net_area

The **p16_lb4_tsa_net_area** table contains the area for each polygon in the TSA Landbase excluding area within seismic. It is necessary to calculate this area as it is used in the models. Figure 6-2 shows the process to create this table. This table was calculated from the **p16_lb4_cls** landbase.

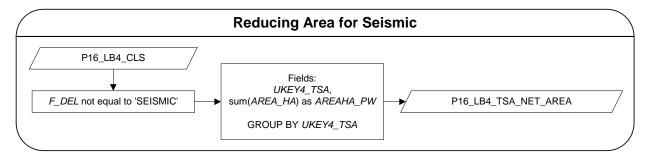


Figure 6-2. Reducing area for seismic reducing area calculation.

6.1.2 Add_preblocks

The **add_preblocks** table contains information regarding MDFP and DMI manual over-rides for the Spatial Harvest Sequence (SHS). It is made up of four fields as shown in Table 6-1. The preblock attribute determines how the AVI polygon is to be treated. If PREBLOCK = 'y', then the model is forced to harvest the stand. If PREBLOCK = 'n', then the stand is deferred for 20 years.

This table was created manually using input from MDFP and DMI and identifies blocks harvested in 2005 and 2006 and scheduled for harvesting in future years.

 Table 6-1. Add_preblocks table description.

Field	Description
FORESTKEY	AVI key field
PREBLOCK	y, up or n
COMMENTX	MDFP/DMI comment
ORIGORDER	Original order from MDFP spreadsheet

6.1.3 Opunits

The **opunits** table was created to allow the model to choose which areas to open each period. The ability to allow the model to choose was developed late in the process, and therefore opunits were not included in the main landbase processing. Instead, they were chosen on screen from the **p16_lb4_tsa** coverage and then outputted to a flat file to be linked to the Oracle tables. There are only two fields, *UKEY4_TSA* and *OPUNIT*. The opunit field is an integer number between 0 to 5, which is concatenated to the compartment number and Alternative Patch Management Area.

6.1.4 Temp_themes

The **temp_themes** table is an empty table with the new theme fields created. This table is created simply to join with the existing tables.

6.1.5 P16_lb4_tsa_themes

The **p16_lb4_tsa_themes** table is simply the combination of several different tables as shown in Figure 6-3 and in Table 6-2. This is the Oracle table in which the themes and related modeling fields are calculated.

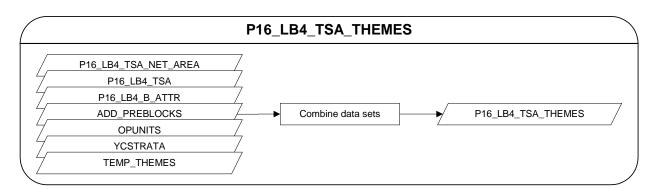


Figure 6-3. Creation of p16_lb4_tsa_themes table.

 Table 6-2. Source tables for fields in p16_l1b4_tsa themes.

Field	Source Table	
AREA	p16_lb4_tsa	
UKEY4_TMP	p16_lb4_tsa	
UKEY4_TSA	p16_lb4_tsa	
UKEY4	p16_lb4_tsa	
FORESTKEY	p16_lb4_tsa	
COMPART	p16_lb4_tsa	
MUHEIGHT	p16_lb4_tsa	
MUDENSITY	p16_lb4_tsa	
MUORGIN	p16_lb4_tsa	
ULEADSP	p16_lb4_attr	
REG_G_DOM	p16_lb4_tsa	
REG_J_DOM	p16_lb4_tsa	
PNT	p16_lb4_tsa	
D_SUB	p16_lb4_tsa	
D_TRP	p16_lb4_tsa	
D_BUF	p16_lb4_tsa	
D_STATUIS	p16_lb4_tsa	
D_BIRM	p16_lb4_tsa	
D_ACCESS	p16_lb4_tsa	
D_SEISMIC	p16_lb4_tsa	
D_NONFOR	p16_lb4_tsa	
D_ISO	p16_lb4_tsa	
F_MGT	p16_lb4_tsa	
F_WILD	p16_lb4_tsa	_
F_CBU	p16_lb4_tsa	_
F_DELI	p16_lb4_tsa	
F_DEL	p16_lb4_tsa	

Field	Source Table
F_YC	p16_lb4_tsa
F_DEN	p16_lb4_tsa
LANDBASE	p16_lb4_tsa
HARV_YR	p16_lb4_tsa
COMPANY	p16_lb4_tsa
TREATMENT	p16_lb4_tsa
F_AGE	p16_lb4_tsa
F_AGEC;ASS	p16_lb4_tsa
AREA_HA	p16_lb4_tsa
THEME 1	temp_themes
THEME 2	temp_themes
THEME 3	temp_themes
THEME 4	temp_themes
THEME 5	temp_themes
THEME 6	temp_themes
THEME 7	temp_themes
THEME 8	temp_themes
AGE_PERIOD	temp_themes
DELTA1	temp_themes
TREATMENT1	temp_themes
ACCESS_C1	temp_themes
ACCESS_C2	temp_themes
ACCESS_C3	temp_themes
ACCESS_C4	temp_themes
ROADS_C1	temp_themes
ROADS_C2	temp_themes
ROADS_C3	temp_themes
ROADS_C4	temp_themes
AREAHA_PW	p16_lb4_tsa_net_area
PREBLOCK AS ADDPREBLOCK	add_preblocks
DEFER	add_preblocks
COMMENTX AS PRE_COMMENT	add_preblocks
OPUNTIT	opunits
MTP R	ycstrat

Table 6-2. Source tables for fields in p16_l1b4_tsa themes.(Continued).

6.2 TSA Landbase Attributes

The TSA Landbase has extra attributes calculated to allow the Woodstock and Patchworks models to function. This section describes the calculation of these attributes.

6.2.1 THEME1 – Landbase

THEME1 is simply identifies the Landbase attribute as shown in Figure 6-4.

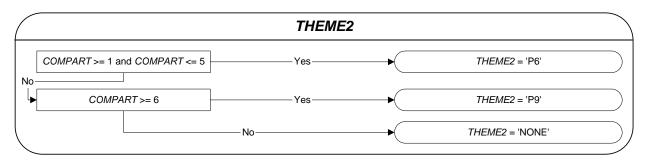


THEME1	
THEME1 = LANDBASE	

Figure 6-4. THEME1 calculation.

6.2.2 *THEME2* – FMU

THEME2 is the FMU designation and is calculated from the compart attribute as shown in Figure 6-5.





6.2.3 THEME3 – Species Strata

The species strata theme is calculated the values from F_YC plus some additional non-forested values to allow the use of the Firesmart curves in the model. Furthermore, the 'DU' strata is split into white spruce leading and non white spruce leading as only white spruce leading stands are eligible for the Understory Protection treatment. The calculations are shown in Figure 6-6.

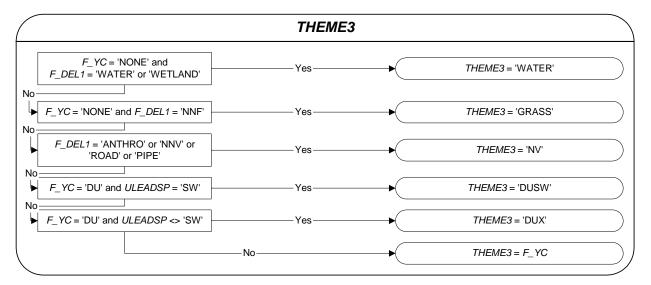
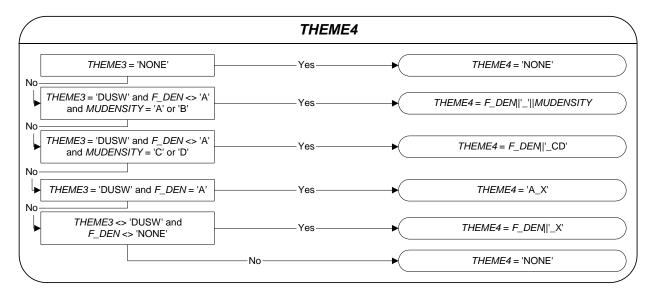


Figure 6-6. THEME3 calculation

6.2.4 THEME4 – Density

THEME4 is a composite of the overstory density and the understory density of each polygon. Only the 'DUSW' strata uses the information for the understory layer, all other strata represent the understory density as an 'X'. The calculations are shown in Figure 6-7.





6.2.5 *THEME5* – Active Landbase

The active (OPER) landbase is simply the landbase where F_DEL1 is not equal to 'NONE'. All other stands are part of the passive landbase (NONOP). This calculation is shown in Figure 6-8.



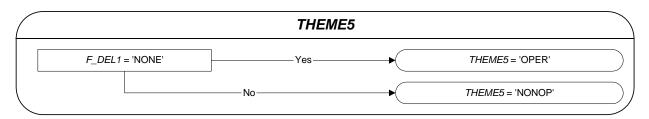


Figure 6-8. THEME5 calculation.

6.2.6 THEME6 – Harvest State

THEME6 shows the existing harvest state of the polygon. Pre-91 blocks are assigned to the post-91 yield curves so they require a specific designation. Post-91 blocks and understory protection blocks are also assigned here. This calculation is shown in Figure 6-9.

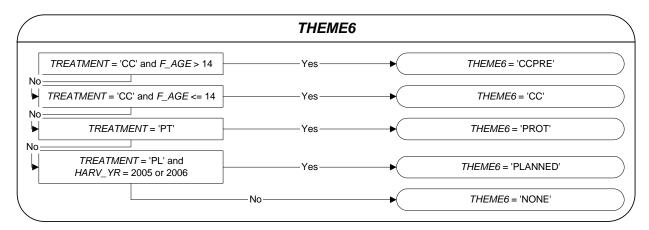


Figure 6-9. THEME6 calculation.

6.2.7 THEME7 – Breeding Regions

THEME7 outlines which tree breeding region the polygon is part of to allow the correct application of the tree improvement planting within the model. This calculation is shown in Figure 6-10.

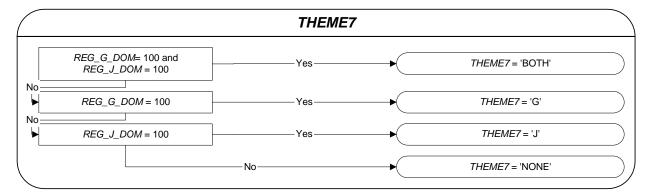
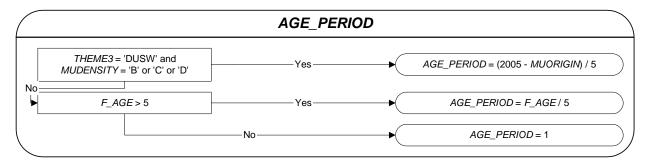


Figure 6-10. THEME7calculation.

6.2.8 AGE_PERIOD

AGE_PERIOD identifies the age in five year periods. For the 'DUSW' strata, the understory age is used to match the yield curve definition. The *AGE_PERIOD* calculations is shown in Figure 6-11.





6.2.9 DUHGTCLASS

DUHGTCLASS groups the understory height in the DU strata into height classes as shown in Figure 6-12.



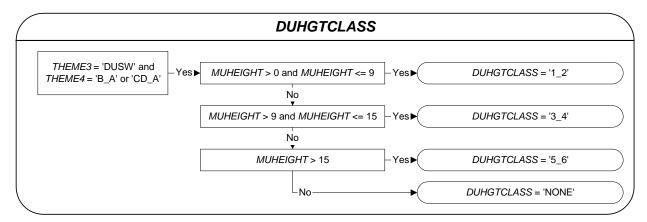


Figure 6-12. DUHGTCLASS calculation.

6.2.10 DELTA1

DELTA1 is the year that a pre-block is to be harvested. The first two years of the model are derived from existing and planned 2005 and 2006 harvesting. All other years of pre-blocks are based on MDFP and DMI correspondence. Further complexity arises when ensuring that planned blocks do not violate the chosen compartment sequence. This calculation is shown in Figure 6-13.

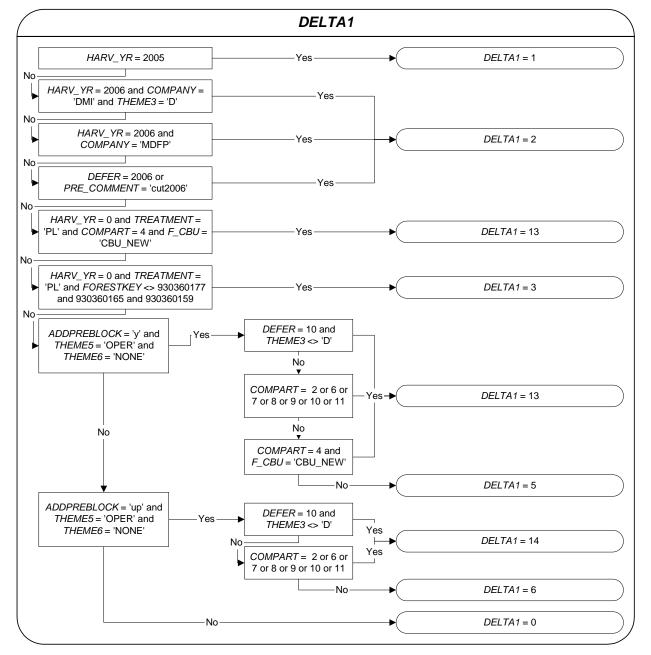
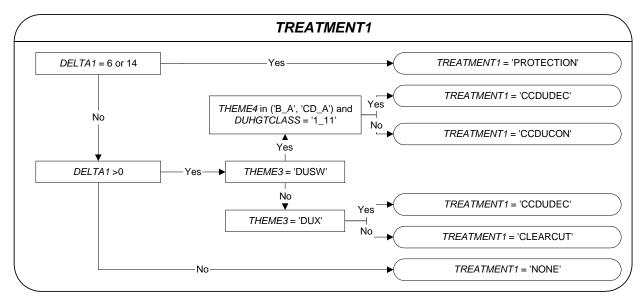


Figure 6-13. Delta1 calculation.

6.2.11 TREATMENT1

The *TREATMENT1* attribute is assigned based on the year of harvest in the *DELTA1* field. Where the *ADDPREBLOCK* field = 'up', the *DELTA1* field is calculated to be either 6 or 14. As a result, the treatment is understory protection. All other treatments are set to the clearcut action. These calculations are shown in Figure 6-14.







6.2.12 ACCESS_C4

The *ACCESS_C4* attribute is created to allow access control within the Patchworks model. Several iterations of this attribute were created but only the final attribute access_c4 is documented. Essentially, the access control is based on the concatenation of several pieces of information: the compartments, AMPA, PSP's, other deferrals, a preblock flag and the landbase (conifer or deciduous).

The structure of this field allows compartment scheduling of the deciduous landbase to be separate from the coniferous landbase. However, to allow DMI access to the DUSW strata in the same compartments at the same time as they access D strata blocks, one notable deviation from the FMA Agreement is the inclusion of the DUSW strata as part of the DECID landbase for modeling purposes (Figure 6-15).



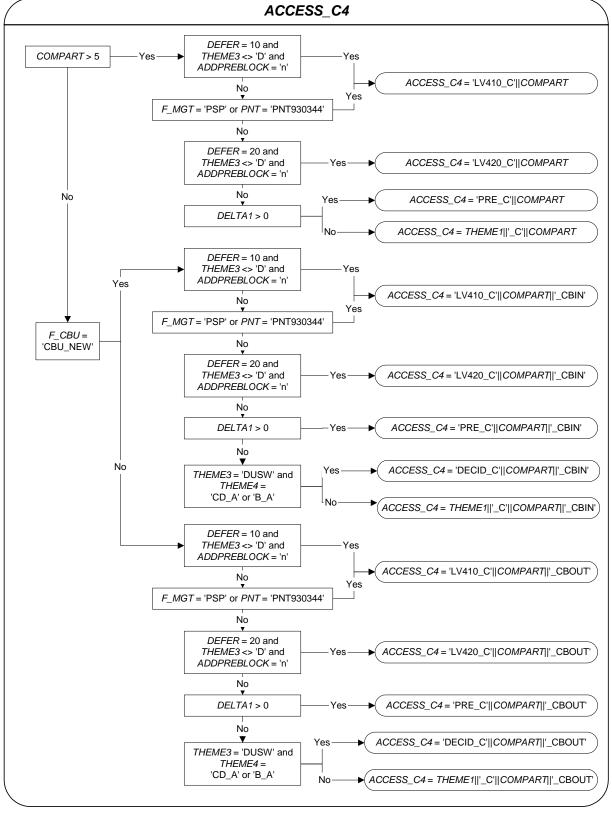


Figure 6-15. ACCESS_C4 calculation.





6.2.13 ROADS_C1

ROADS_C1 is simply the landbase converted into a numerical value for use in calculating *ROADS_C2* (Figure 6-16).

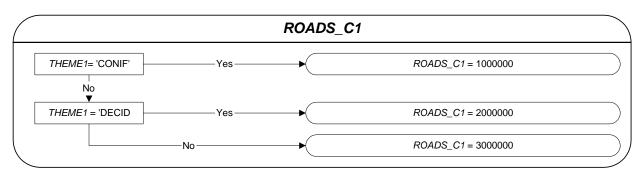


Figure 6-16. Calculation of ROADS_C1.

6.2.14 ROADS_C2

ROADS_C2 is used as part of the formulation to allow Patchworks to choose its own operating units to open. The *ROADS_C2* attribute is simply a number system that combines compartments, operating units, AMPA and landbase into one integer (Figure 6-17). This topic is described further in Section 6.10 in **Timber Supply Analysis**.

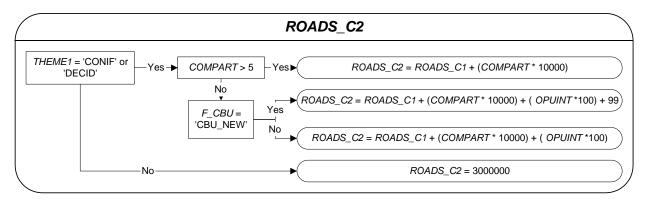


Figure 6-17. Calculation of ROADS_C2.

6.3 Exporting Modeling files

6.3.1 Woodstock Areas file

The Woodstock Areas file is generated in Oracle, and is simply the grouping of the seven themes and the *AGE_PERIOD* field for the active landbase. The area for each unique set of themes and age is calculated from *AREAHA_PW* to ensure that the seismic area is not included.

6.3.2 P16_lb4_tsa_output

The output file to join with the original coverage is simply a copy of the new fields (from **temp_themes**) in a separate table so that field names are not duplicated when joined with the coverage to create **p16_lb4_tsa.shp**.

6.3.3 Patchworks Initial Sequence

The initial sequence that is loaded into patchworks is created in Oracle. This file has three fields, *BLOCK, DELTA* and *TREATMENT*. The Block field is the relate field (*UKEY4_TSA*), the *DELTA* field is the year of treatment, and the *TREATMENT* field is the name of the treatment to perform. Calculation of the **preblock_schedule.csv** is shown in Figure 6-18.

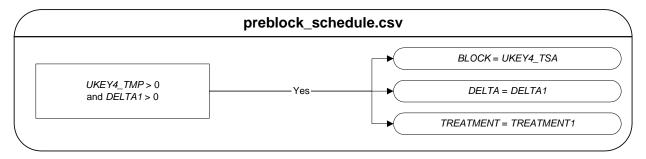


Figure 6-18. Creation of preblock_schedule.csv.

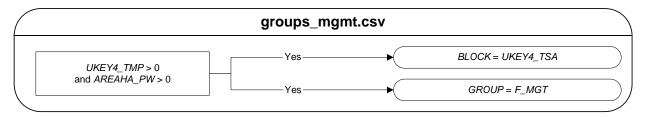
6.3.4 Patchworks Groups files

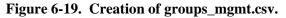
The Groups files are used by the Patchworks model to allow target creation based on attributes in the landbase that are not part of a theme. This allows the model matrix to be smaller (by having fewer themes) but still allows reporting or controlling flexibility. All of the group files have two fields, *BLOCK* and *GROUP*, where the *BLOCK* field is the key field (*UKEY4_TSA*) and the *GROUP* field contains the attribute of interest. A total of seven groups files were utilized.

6.3.4.1 Groups_mgmt.csv

The **groups_mgmt.csv** file is created from *F_MGT* as shown in Figure 6-19.







6.3.4.2 Groups_caribou.csv

This groups file is a concatenation of *THEME2* and F_CBU as shown in Figure 6-20. This allows for specific targets within each FMU and within the AMPA.

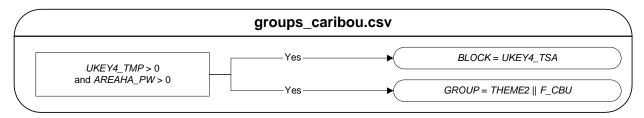


Figure 6-20. Creation of groups_caribou.csv.

6.3.4.3 Groups_landbase.csv

The **groups_landbase.csv** is comprised of *THEME5* and *THEME2* as shown in Figure 6-21. This allows the creation of zone of active and inactive landbase within each FMU.

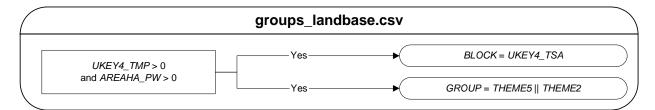
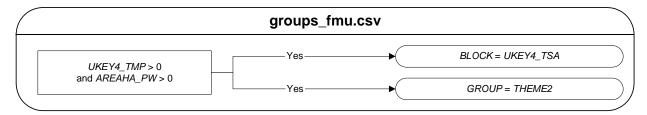


Figure 6-21. Creation of groups_landbase.csv.

6.3.4.4 Groups_fmu.csv

This group file is based on *THEME2* only and allows the creation of targets by FMU as shown in Figure 6-22.





6.3.4.5 Groups_ssi_rank.csv

The **groups_ssi_rank.csv** file is filtered for stands that have a valid mountain pine susceptibility ranking and have a lodgepole pine component greater than 20%. It is used to create targets relating to the MPB Rank1 and Rank2 initiatives (see Section 6.13 in **Timber Supply Analysis**). The creation of **groups_ssi_rank.csv** file is shown in Figure 6-23.

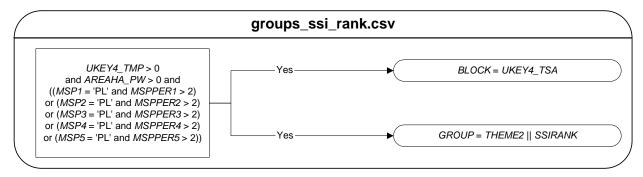
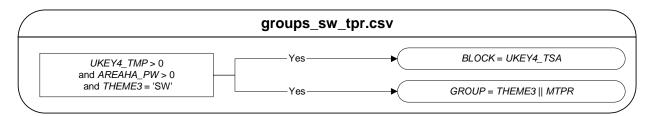
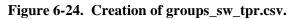


Figure 6-23. Creation of groups_ssi_rank.csv.

6.3.4.6 Groups_sw_tpr.csv

The **groups_sw_tpr.csv** file is comprised of *THEME3* and *MTPR* for stands where *THEME3* is 'SW' as shown in Figure 6-24. This allows the creation of a white spruce target for sites with a TPR of 'Fair'.





6.3.4.7 Groups_du_hgt.csv

The groups_du_hgt.csv file is comprised of DUHGTCLASS for stands in the DU strata.



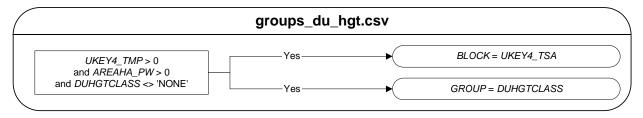


Figure 6-25. Creation of groups_du_hgt.csv.

6.4 TSA Landbase Shapefile Creation

GIS processing was used to link the **p16_lb4_tsa_output** table with the **p16_lb4_tsa** coverage and save as a shapefile for use in Patchworks. This last step ensures that the themes and other attributes are present in the Patchworks model.

Appendix I Polygon Update Protocol

Appendix II Polygon Update Protocol Field Manual

Appendix III Polygon Update Analysis Methods

Appendix IV Approval Letters









Resource Information Management Branch

12th Floor, 9820 - 106 Street Edmonton AB T5K 2J6

Telephone 780-427-6467 Fax 780-427-1215

January 31, 2005

Mr. J. P. Bielech, Woodland Manager Manning Diversified Forest Products Ltd. Bag 370 Manning, AB TOH 2M0

Dear Mr. Bielech:

Alberta Sustainable Resource Development staff completed a review of the Alberta Vegetation Inventory (AVI) completed by Manning Diversified Forest Products Ltd. for forest management unit P9. The data have successfully passed an audit by Resource Information Management Branch. The final audit report will be completed in the near future.

If you have any questions regarding this process, please feel free to contact Daryl McEwan at (780) 415-0010.

Sincerely,

Craig Barnes, Executive Director Resource Information Management Branch

c: Doug Sklar, Executive Director Forest Management Branch

> Don Harrison, Director Wildlife Service Branch



Public Lands and Forests Division Forest Management Branch COPY



8th Floor 9920 - 108 Street Edmonton, Alberta Canada T5K 2M4 Telephone (780) 427-8474 Fax (780) 427-0084

April 4, 2006

Ref: 06303 - 010 06302 - R01 - 01 06302 - F02 - 04

Mr. Jean-Paul Bielech Woodlands Manager Manning Diversified Forest Products Ltd. P.O.Box 370 Manning, Alberta T0H 2M0

Dear Mr. Bielech:

RE: APPROVAL – MANNING DIVERSIFIED FOREST PRODUCTS POLYGON UPDATE PROTOCOL

The Forest Management Branch has completed its review of the following documents:

- "Manning Diversified Forest Products Ltd. Polygon Update Protocol: Sampling Results and Block Assignment" dated August 15, 2005,
- "Polygon Update Field Manual" dated October 26, 2004 (revised August 15, 2005),
- "Manning Diversified Forest Products Ltd. Polygon Update Protocol" dated September 13, 2004 (revised August 15, 2005),
- "Manning Diversified Forest Products Ltd. Polygon Update Protocol. Dataset submission to Alberta SRD, dated February 13, 2006".

We find that these documents accurately reflect the agreed-to protocols for which the overall goal is to assign older cutovers to yield strata specific to Manning Diversified Forest Products Ltd's (MDFP) FMA.

.../2



- 2 -

We are pleased to accept this package for use in MDFP's timber supply analysis of the 2007 Detailed Forest Management Plan.

Yours truly, Robert W. Stokes, RPF

Robert W. Stokes, RPF Senior Manager Forest Planning Section

cc:

Dave Morgan, Manager, Forest Biometrics Unit Daryl Price, Senior Manager, Resource Analysis Section Grant Klappstein, Growth and Yield Forester, Forest Biometrics Unit Darren Aitkin, Growth and Yield Forester, Forest Biometrics Unit Glen Gache, Area Manager, Peace Forest Area Kari White, Area Forester, Peace Forest Area

Appendix V Data Dictionaries for Submitted and Input Datasets

ADIE

EXAMPLE DATASET

Description:	general description
Data Source:	who created the dataset or who supplied it
Creation Date:	year or date of creation
Processing:	processing required to ready the dataset for analysis
Data Format:	coverage or shapefile
Software Used:	software used to process dataset
Projection:	projection
Datum:	
Units:	
Data Precision:	double or single
Tolerance:	fuzzy tolerance
Scale of Capture:	scale of original capture photographs



AVI_21

Description:	P6 AVI v2.1					
Data Source:	Interpreted by	y Greenlink and based o	on 1997 photos			
Date Generated:	1997					
Processing:	Standard AV	I protocols, originally AV	I version 2.2, con	verted to AVI version 2.1		
Data Format:	Arc/Info cove	rage				
Software Used:	ESRI ArcGIS					
Projection:	UTM Zone 11	1				
Datum:	NAD 83					
Units:	metres					
Data Precision:	Double					
Tolerance:	Fuzzy @ 0.00	Fuzzy @ 0.001				
Scale of Capture:	1:20,000					
Data Dictionary	7					
Column Name	Type W.D	Column	Item Value	Item Description		
AREA	8,18,F,5	Area (sq.m.)				
PERIMETER	8,18,F,5	Perimeter (m.)				
AVI_21#	4,5,B,0	Internal ArcInfo No. ArcInfo User Id				
AVI_21-ID ID	4,10,B,0 10,10,I,0	Arcinio User la				
FORESTKEY	10,10,1,0	Unique key for AVI				
POLY NUM	10,10,1,0	Duplicate of FORESTKE	Y			
OLDID	4,4,I,0	·				
SDBID	10,10,1,0					
TRM	6,6,1,0					

ADIE

AVITWIN_LAKES

Dataset Information

Description:	Twin Lakes			
Data Source:	Extracted from	n P6 AVI coverage		
Date Generated:	1997			
Processing:	Input coverag	e for buffering to create	200m protection	buffer around lakes
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS	•		
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	1:20,000			
Data Dictionary				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		-
PERIMETER	8,18,F,5	Perimeter (m.)		
AVITWIN_LAKES#	4,5,B,0	Internal ArcInfo No.		
AVITWIN_LAKES-ID	4,5,B,0	ArcInfo User Id		
TWIN_LAKES-ID	4,5,B,0			
AVI_21_	8,11,F,0	Internal ArcInfo No. from		
AVI_21_ID	8,11,F,0	ArcInfo User Id from AVI		
			0	
			972250509	

972250509 972250521



BLOCKS_ALL

Dataset Informa	tion					
Description:	Final block coverage (planned and actual)					
Data Source:	Various - MDI	FP_BLK, GREEN_BLł	K, PLAN_BLK.			
Date Generated:	October 2005					
Processing:	Overlaid the t	hree coverages and m	anual edits to rem	ove slivers and to update attribute information.		
Data Format:	Arc/Info cover	age				
Software Used:	ESRI ArcGIS	Ū				
Projection:	UTM Zone 11					
Datum:	NAD 83					
Units:	metres					
Data Precision:	Double					
Tolerance:	Fuzzy @ 0.00	11				
Scale of Capture:	Unknown	/1				
	UTKHOWH					
Data Dictionary	7 1 1 D	<i>a</i> 1	T . T . T			
<i>Column Name</i> AREA PERIMETER BLOCKS_ALL#	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0	<i>Column</i> Area (sq.m.) Perimeter (m.) Internal ArcInfo No.	Item Value	Item Description		
BLOCKS_ALL-ID	4,5,B,0	ArcInfo User Id				
INSIDE_BLK	3,3,1,0	Defines inside block	0	Not inside a block		
			1	Not inside a block		
		.	100	Within a block		
OPENING BLK_ID	16,16,C,0 25,25,C,0	Opening Number Block Id field				
HARV_YR	4,4,I,0	Harvest Year				
-			0	Not harvested		
			1940			
			1966 1967			
			1968			
			1969			
			1970			
			1971 1972			
			1972			
			1975			
			1978			
			1980			
			1983 1984			
			1987			
			1992			
			1993			
			1997 1998			
			1990			
			2000			
			2001			
			2002			
			2003 2004			
HARV_NOTE	25,25,C,0	Note				
			led new op_num	Block number provided by MDFP		
			CONTINGENCY DMI - PLANNED	Contingency block DMI planned block		
			Understory Prot	DMI understory protection block		
			DMI BLOCK	DMI existing block		
			MDFP BLOCK	MDFP existing block		
		S\//4	Planned P - DMI to MDFP	Planned block Swap from DMI to MDFP		
			P - MDFP to DMI	Swap from MDFP to DMI		
COMPANY	15,15,C,0	Company with Liability				
			CANFOR DMI	Canadian Forest Products Ltd. Daishowa-Marubeni International Ltd.		
			MDFP	Manning Diversified Forest Products Ltd.		
BLK_SRC	25,25,C,0	Block Source		0		
			BLOCK UPDATE BLOCK UPDATE	Block updated by MDFP		
MDFP_STRATA	8,8,C,0	Strata Assignment	LOOK OF DATE	Block updated by Greenlink		
	, - , - , -		AVI	Strata to be based on AVI call		
			CD	Conifer dominated Mixedwood		

May 31, 2007			Landbase N	
			CD-2000 D-2000 DC-2000 DC-2000 PI Sw	Conifer dominated Mixedwood Deciduous Deciduous Deciduous dominated Mixedwood Deciduous dominated Mixedwood Lodgepole Pine leading Conifer White Spruce leading Conifer
TREATMENT	3,3,C,0	Treatment Applied	CC PL PT	Clearcut Planned Block Understory Protection



BREED_G_J

Dataset Informa	ation			
Description:	Breeding Reg	jions		
Data Source:	SRD			
Date Generated:	Summer 200	5		
Processing:	Converted to	coverage and added i	items to allow easie	rprocessing
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
	8,18,F,5	Perimeter (m.) Internal ArcInfo No.		
BREED_G_J# BREED_G_J-ID	4,5,B,0 4,5,B,0	ArcInfo User Id		
REG_G	4,10,B,0	Breeding region G		
		0 0	0	Not within Breeding Region G
REG J	4 10 8 0	Breeding region J	100	Within Breeding Region G
KEG_J	4,10,B,0	Dieeding region J	0	Not within Breeding Region J
			100	Within Breeding Region J

YDIE

CBU_2005

Dataset Information

Description:	Alternative Patch Management Zone
Data Source:	Digitized in house
Date	December 2005
Processing:	Digitized on screen based on delineation of zone marked on 1:160,000 scale map
Data Format:	Arc/Info coverage
Software Used:	ESRI ArcGIS
Projection:	UTM Zone 11
Datum:	NAD 83
Units:	metres
Data Precision:	Double
Tolerance:	Fuzzy @ 0.001
Scale of Capture:	Unknown

Data Dictionary

Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (Sq. m)		
PERIMETER	8,18,F,5	Perimeter (m)		
CBU_2005#	4,5,B	Internal ArcInfo Num.		
CBU_2005-ID	4,5,B	ArcInfo User ID		
CBU_2005	16,16,C	Alternative Patch Mana	gement Zone	
			Caribou_2005	Alternative Patch Management Zone

Data Dictionaries for Submitted and Input Datasets



COMPART

Description:	Compartment	boundaries			
Data Source:	Manually generated by The Forestry Corp using MDFP recommendations				
Date Generated:	January 2005				
Processing:	,		e, and the Hotchki	iss, Meikle and Botha rivers along with the main	
Canfor		,			
0	haul road wer	e used as boundaries.	Compartment nu	mbers were assigned sequential numbers, 1-6.	
Data Format:	Arc/Info cover				
Software Used:	ESRI ArcGIS				
Projection:	UTM Zone 11				
Datum:	NAD 83				
Units:	metres				
Data Precision:	Double				
Tolerance:	Fuzzy @ 0.00)1			
Scale of Capture:	Unknown				
Data Dictionary					
Column Name	Type W.D	Column	Item Value	Item Description	
FNODE#	4,5,B,0	From node number.		-	
TNODE#	4,5,B,0	To node number			
LPOLY#	4,5,B,0	Poly no. on left.			
RPOLY#	4,5,B,0	Poly no. on right.			
LENGTH	8,18,F,5	Length of arc segment			
			0 1	Working Circle # 1	
			2	Working Circle # 2	
			3	Working Circle # 3	
			4	Working Circle # 4	
			5	Working Circle # 5	
			6	Working Circle # 6	
COMPART#	4,5,B,0	Internal ArcInfo No.			
COMPART-ID	4,5,B,0	ArcInfo User Id			

Landbase Netdown

ADIE

CUT_B

Dataset Information

Description:	Cutline buffer	S			
Data Source:	Created by b	uffering cutlines at val	rious widths as spe	cified in BUFFER column	
Date Generated:	June 2005	-			
Processing:	Arc/Info buffe	er command.			
Data Format:	Arc/Info cove	rage			
Software Used:	ESRI ArcGIS	0			
Projection:	UTM Zone 11	I			
Datum:	NAD 83				
Units:	metres				
Data Precision:	Double				
Tolerance:	Fuzzy @ 0.001				
Scale of Capture:	N/A				
Data Dictionary	,				
Column Name	Type W.D	Column	Item Value	Item Description	
AREA	8,18,F,5	Area (sq.m.)		-	
PERIMETER	8,18,F,5	Perimeter (m.)			
CUT_B#	4,5,B,0	Internal ArcInfo No.			
CUT_B-ID	4,5,B,0	ArcInfo User Id			
IN_CUT_B	4,5,B,0	Inside cutlines			
			1	Not within a seismic buffer	
			100	Within a seismic buffer	

Data Dictionaries for Submitted and Input Datasets



FIRES

			FIKES	
Dataset Informa	tion			
Description:	Fires since A	VI capture		
Data Source:	Selected set f	from Provincial Fires c	overage	
Date Generated:	June 2005		0	
Processing:		that are not in AVI an	d put to new cove	erage
Data Format:	Arc/Info Cove			
Software Used:	ESRI ArcGIS	iugo		
Projection:	UTM Zone 1	1		
Datum:		1		
	NAD 83			
Units:	Metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		· · · · · · · · · · · · · · · · · · ·
PERIMETER	8,18,F,5	Perimeter (m.)		
FIRES#	4,5,B,0	Internal ArcInfo No.		
FIRES-ID	4,5,B,0	ArcInfo User Id	tion	
POLY# SUBCLASS	4,5,B,0 13,13,C,0	Internal Region informa Internal Region informa		
SUBCLASS#	4,5,B,0	Internal Region informa		
RINGS_OK	7,7,1,0	Internal Region informa		
RINGS_NOK	7,7,1,0	Internal Region informa	ition	
FIRENUMBER	12,12,C,0			
			PWF-023-2003	
			PWF-050-2004 PWF-066-2002	
			PWF-067-2002	
			PWF-068-2002	
			PWF-069-2002	
	40.40.0.0		PWF-097-2004	
FIRE_NUMBE	12,12,C,0		D\//E022	
			PWF023 PWF050	
			PWF066	
			PWF067	
			PWF068	
			PWF069	
	1100		PWF097	
FIRE_CLASS	1,1,C,0		В	
			č	
			E	
BURNCODE	6,6,C,0		_	
	44 0 0		В	
BURN_CLASS	4,1,B,0		0	No Fire
			5	NOTINE
HECTARES_U	8,10,F,1			
FIRE_YEAR	4,4,B,0	Year of fire occurrence		
			0	No Fire
			2002 2003	
			2003	
ALIAS	40,40,C,0		2004	
	-, -,-,-		N/A	
CAPTURE_DA	10,10,C,0			
TIME	4,4,C,0			
SOURCE	50,50,C,0	0 hand a	otob of any type	
			ketch of any type sted ground GPS	
			ed airborne GPS	
			ted ground GPS	
SOURCETHM	16,16,C,0			
			Pwf0502004.shp	
HECTARES	8,19,F,3	Area converted to Hect	Pwf0972004.shp ares	
	5, 15, 1, 5	(ha)	4.00	
		x -7		

GOVT_PSP_B

Dataset Information

Polygon buffe	ers of SRD Permanent	Sample Plots			
Square buffer	s of SRD_PSP (318m	x 318m)			
June, 2005					
Square buffer	s of 318m x 318m we	re applies to the SF	RD PSP coverage		
Arc/Info cover	rage				
ESRI ArcGIS					
UTM Zone 11					
NAD 83					
metres					
Double	Double				
Fuzzy @ 0.00)1				
N/A					
Type W.D	Column	Item Value	Item Description		
8,18,F,5	Area (sq.m.)				
, , ,					
, , ,					
	Square buffet June, 2005 Square buffet Arc/Info cove ESRI ArcGIS UTM Zone 11 NAD 83 metres Double Fuzzy @ 0.00 N/A <i>Type W.D</i>	Square buffers of SRD_PSP (318m June, 2005 Square buffers of 318m x 318m wer Arc/Info coverage ESRI ArcGIS UTM Zone 11 NAD 83 metres Double Fuzzy @ 0.001 N/A Type W.D Column 8,18,F,5 Area (sq.m.) 8,18,F,5 Perimeter (m.) 4,5,B,0 Internal ArcInfo No. 4,5,B,0 ArcInfo User Id	Square buffers of 318m x 318m were applies to the SF Arc/Info coverage ESRI ArcGIS UTM Zone 11 NAD 83 metres Double Fuzzy @ 0.001 N/A Type W.D Column Item Value 8,18,F,5 Area (sq.m.) 8,18,F,5 Perimeter (m.) 4,5,B,0 Internal ArcInfo No. 4,5,B,0 ArcInfo User Id		

0 100 Not within a SRD PSP buffer Within a SRD PSP buffer

ADE



GPIPE_CUT

Description:	Non-AVI pipe	lines				
Data Source:	From Landus	From Landuse2004 coverage (Greenlink)				
Date Generated:	2004					
Processing:	Extracted from	n Landuse2004 cov	verage where not four	nd in AVI. This was a manual process.		
Data Format:	Arc/Info cove		5			
Software Used:	ESRI ArcGIS	0				
Projection:	UTM Zone 11					
Datum:	NAD 83					
Units:	metres					
Data Precision:	Double					
Tolerance:	Fuzzy @ 0.00)1				
Scale of Capture:	Unknown					
Data Dictionary						
Data Dictionary Column Name	Type W.D	Column	Item Value	Item Description		
v		<i>Column</i> From node number.	Item Value	Item Description		
Column Name	Type W.D		Item Value	Item Description		
Column Name FNODE#	<i>Type W.D</i> 4,5,B,0	From node number.	Item Value	Item Description		
Column Name FNODE# TNODE#	<i>Type W.D</i> 4,5,B,0 4,5,B,0	From node number. To node number	Item Value	Item Description		
Column Name FNODE# TNODE# LPOLY#	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0	From node number. To node number Poly no. on left.		Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY#	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 4,5,B,0	From node number. To node number Poly no. on left. Poly no. on right.		Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY# LENGTH	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segme		Item Description		
Column Name FNODE# TNODE# LPOLY# LPOLY# LENGTH GPIPE_CUT#	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5 4,5,B,0	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segme Internal ArcInfo No.		Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY# LENGTH GPIPE_CUT# GPIPE_CUT-ID	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segm Internal ArcInfo No. ArcInfo User Id		Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY# LENGTH GPIPE_CUT# GPIPE_CUT-ID	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segme Internal ArcInfo No. ArcInfo User Id Description	ent (m.)	Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY# LENGTH GPIPE_CUT# GPIPE_CUT-ID	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segme Internal ArcInfo No. ArcInfo User Id Description	ent (m.) PIPELINE	Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY# LENGTH GPIPE_CUT# GPIPE_CUT-ID DESCRIPTIO	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5 4,5,B,0 4,5,B,0 16,16,C,0	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segm Internal ArcInfo No. ArcInfo User Id Description	ent (m.) PIPELINE	Item Description		
Column Name FNODE# TNODE# LPOLY# RPOLY# LENGTH GPIPE_CUT# GPIPE_CUT-ID DESCRIPTIO	<i>Type W.D</i> 4,5,B,0 4,5,B,0 4,5,B,0 4,5,B,0 8,18,F,5 4,5,B,0 4,5,B,0 16,16,C,0	From node number. To node number Poly no. on left. Poly no. on right. Length of arc segm Internal ArcInfo No. ArcInfo User Id Description	PIPELINE PIPELINE PIPELINE UPDATE			

ADIE

GPIPE_CUT_B

Dataset Information

Description:	Pipeline buffe	ers		
Data Source:	Created by b	uffering pipe 20m		
Date Generated:	June 2005			
Processing:	Arc/Info buffe	er command.		
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	N/A			
Data Dictionary	,			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
PERIMETER GPIPE CUT B#	8,18,F,5 4,5,B,0	Perimeter (m.) Internal ArcInfo No.		
GPIPE_CUT_B-ID	4,5,B,0	ArcInfo User Id		
INSIDE	4,5,B,0	Pipeline buffers		
			1	Not within a pipeline buffer
			100	Within a pipeline buffer

Data Dictionaries for Submitted and Input Datasets



HIGHWAY

Description:	Highways to I	be buffered		
Data Source:	Extracted fror	n Greenlink roads cove	rage.	
Date Generated:	November 20	04		
Processing:	Extracted fror	n Greenlink linear upda	te coverage wher	e Description = PAVED ROAD.
Data Format:	Arc/Info cove	rage	0	·
Software Used:	ESRI ArcGIS	0		
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	Unknown			
Data Dictionary	,			
Column Name	Type W.D	Column	Item Value	Item Description
FNODE#	4,5,B,0	From node number.		-
TNODE#	4,5,B,0	To node number		
LPOLY#	4,5,B,0	Poly no. on left.		
RPOLY#	4,5,B,0	Poly no. on right.		
LENGTH	8,18,F,5	Length of arc segment (m.)	
HIGHWAY#	4,5,B,0	Internal ArcInfo No.		
HIGHWAY-ID	4,5,B,0	ArcInfo User Id		
CCOGIF				
	16,16,C,0	Feature code	B 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	
	16,16,C,0	Feature code	DA62450200	
			DA62450200 DA62500020	
FEATTYPE	16,16,C,0 25,25,C,0	Feature type	DA62500020	
FEATTYPE		Feature type ROAD-P/	DA62500020 AVED-DIVIDED	
	25,25,C,0	Feature type ROAD-P/ ROAD-PAVED-U	DA62500020 AVED-DIVIDED	
FEATTYPE DESCRIPTIO		Feature type ROAD-P/	DA62500020 AVED-DIVIDED NDIV-2 LANES	
DESCRIPTIO	25,25,C,0 16,16,C,0	Feature type ROAD-P/ ROAD-PAVED-U Feature description	DA62500020 AVED-DIVIDED	
DESCRIPTIO PHOTO_YEAR	25,25,C,0 16,16,C,0 4,4,B,0	Feature type ROAD-P/ ROAD-PAVED-U Feature description Photo Year	DA62500020 AVED-DIVIDED NDIV-2 LANES	
DESCRIPTIO	25,25,C,0 16,16,C,0	Feature type ROAD-P/ ROAD-PAVED-U Feature description	DA62500020 AVED-DIVIDED NDIV-2 LANES	No buffer required

HWY_MGT

Dataset Information

Description:	Highway mar	nagement zone		
Data Source:	Created by b	uffering HIGHWAY co	verage 125m each	side
Date Generated:	June 2005			
Processing:	Buffer of majo	or highway in FMU P6		
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS	-		
Projection:	UTM Zone 11	l		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	N/A			
Data Dictionary				
Column Name AREA PERIMETER HWY_MGT# HWY_MGT-ID HWY_MGT	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Indicates highway management zone	Item Value	Item Description
			1	Not within Highwov Mc

1 100 Not within Highway Management zone Within Highway management zone

ADJES



LAKE_B

Description:	Lake buffers			
Data Source:		uffering p69_lakes 100)m	
Date Generated:	June 2005			
Processing:	Arc/Info buffe	er command.		
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11	1		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	1:20,000			
Data Dictionary	7			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		_
PERIMETER	8,18,F,5	Perimeter (m.)		
LAKE_B#	4,5,B,0	Internal ArcInfo No.		
LAKE_B-ID IN LAKES B	4,5,B,0 3,3,I,0	ArcInfo User Id Buffered Lakes		
IN_LARES_D	3,3,1,0	Dulleleu Lakes	1	Not within lakes buffer
			100	Within lakes buffer
MAJRIV_TYPE	20,20,C,0	River type		
IN_MAJRIV_B	3,3,I,0	Buffered rivers		
			0	Not within major river buffer
		D <i>"</i> 1 1	1	Not within major river buffer
IN_STREAM_B	3,3,1,0	Buffered streams	0	
			0 1	Not within stream buffer Not within stream buffer
			1	NOT WITHIN STEAM DUTTER

Landbase Netdown

<u> 4935</u>

LANDUSE2004

Description:	Ezra Landuse	e layer		
Data Source:	Created from creation of the	· / /	n information (theo	pretical) for dispositions added to LSAS since the
Date Generated:	April 2004			
Processing:	Several comp captured in th		pdating roads, pipe	elines, wellsites, and any other spatial disposition not
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name AREA PERIMETER LANDUSE# LANDUSE	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 8,8,C,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Type of landuse deletion	Item Value	Item Description
	0,0,0		EZE MLL MLP PIPE ROAD WELL	Easements Misc. Land Leases Misc. Land Permits Pipelines Roads Wellsites



MAJRIV_B

Description:	Major River b	ouffers		
Data Source:	Created by b	uffering P69_MAJ_RI	V 60m	
Date Generated:	June 2005			
Processing:	Arc/Info buffe	er command.		
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS	-		
Projection:	UTM Zone 11	1		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	N/A			
Data Dictionary	7			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		11011 2 0501 P 11011
PERIMETER	8,18,F,5	Perimeter (m.)		
MAJRIV_B#	4,5,B,0	Internal ArcInfo No.		
MAJRIV_B-ID	4,5,B,0	ArcInfo User Id		
IN_LAKES_B	3,3,1,0	Buffered Lakes	1	Not within lakes buffer
MAJRIV_TYPE	20,20,C,0	River type	1	Not within lakes builer
IN_MAJRIV_B				
	3,3,1,0	Buffered rivers		
	, , ,		1	Not within major river buffer
	3,3,1,0	Buffered rivers	1 100	Not within major river buffer Within major river buffer
IN_STREAM_B	, , ,		-	

ADIE

MDFP_SLNET

Dataset morma					
Description:	Small rivers a				
Data Source:	SRD SLNET	0			
Date Generated:	December 2004				
Processing:	Selected from	n SRD - SLNET coverage	ge where feature_	type = STR-PER or OXBOW-PER	
Data Format:	Arc/Info cove	rage			
Software Used:	ESRI ArcGIS				
Projection:	UTM Zone 11				
Datum:	NAD 83				
Units:	metres				
Data Precision:	Double				
Tolerance:	Fuzzy @ 0.00)1			
Scale of Capture:	Unknown				
Data Dictionary					
Column Name	Type W.D	Column	Item Value	Item Description	
FNODE#	4,5,B,0	From node number.	nem vanie	nem Description	
TNODE#	4,5,B,0	To node number			
LPOLY#	4,5,B,0	Poly no. on left.			
RPOLY#	4,5,B,0	Poly no. on right.			
LENGTH	8,18,F,5	Length of arc segment (m.)		
MDFP_SLNET# MDFP_SLNET-ID	4,5,B,0 4,5,B,0	Internal ArcInfo No. ArcInfo User Id			
FEATURE_CODE	10,10,C,0	Cogif code			
	,,.,.	g	GA20700000		
			GA28362400		
			GA28362530		
			GA28363530 GA61700000		
			GA61700200		
			GA61750000		
			GA61750200		
			GA61900000		
			GA61900020 GB49800000		
			GB49800000 GB49850000		
			GE15870100		
			GE15870150		
FEATURE_TYPE	30,30,C,0	Hydrology feature type			
		FI	DITCH OW-ARB-DEM_		
			-ARB-MANUAL		
			LAKE-REP-PRI		
			OXBOW-PER		
			XBOW-RECUR /-MAJ-REP-PRI		
			MAJ-REP-SEC		
			STR-INDEF		
			STR-PER		
NAME		Lludrology footure nome	STR-RECUR		
NAME	80,80,C,0	Hydrology feature name	Botha River		
		C	Chinchaga River		
			Dryden Creek		
			Faria Creek		
			Friock Creek Gerard Creek		
			Goffit Creek		
			Gravina Creek		
			Haig River		
			Haro Creek		
			Haro River Havet Creek		
			Hotchkiss River		
			Lovet Creek		
			Meikle River		
			Notikewin River		
		ſ	Rambling Creek		
			Slims Creek Sloat Creek		
			Stowe Creek		
		Th	ordarson Creek		
			Vader Creek		



Landbase Netdown

PS FLOW	1,1,C,0		Waniandy Creek
10_1000	1,1,0,0		Р
			S
BUFFER	5,5,N,1	Buffer width	
			0.0
			30.0

0 No buffer required 0 Buffer distance of 30 m each side Landbase Netdown

ADIE 2

MLL_PNT

Description:	Additional PN	IT and MLL last minute a	additions	
Data Source:	Digitized in he	ouse		
Date Generated:	September 20	005		
Processing:	Digitized from	n paper maps		
Data Format:	Arc/Info cove			
Software Used:	ESRI ArcGIS	-		
Projection:	UTM Zone 11	1		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	1:15,000			
Data Dictionary	,			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
	8,18,F,5	Perimeter (m.) Internal ArcInfo No.		
MLL_PNT# MLL_PNT-ID	8,18,F,5 8,18,F,5	Arcinfo User Id		
PNT	12,12,C,0	PNT Number		
			PNT020194	NIVMA Plot
			PNT930344 PNT950022	Understory Protection Research Site
LANDUSE NEW	8,8,C,0	Type of landuse deletion		Spruce Budworm Research Site
	_ , _ , _ , _ , _	71 7 2 2010 1011	MLL	Misc. Land Leases
			PNT	Protective notation



NSR_1994

Dataset Information

Description:	1994 Natural Subregion coverage
Data Source:	Provincial coverage obtained from MDFP.
Date Generated:	1994
Processing:	None
Data Format:	Arc/Info coverage
Software Used:	ESRI ArcGIS
Projection:	UTM Zone 11
Datum:	NAD 83
Units:	metres
Data Precision:	Double
Tolerance:	Fuzzy @ 0.001
Scale of Capture:	Unknown
Data Dictionary	

Type W.D Column 8,18,F,5 Area (sq.m.) 8,18,F,5 Perimeter (m 4,5,B,0 Internal ArcInfo 4,5,B,0 ArcInfo 4,5,B,0 ArcInfo Column Name Item Value Item Description AREA PERIMETER NSR_1994# NSR_1994-ID POLY# SUBCLASS Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region information Internal Region information 4,5,B,0 13,13,C,0 SUBCLASS# 4,5,B,0 NSN 25,25,C,0 Natural subregion name Dry Mixedwood Lower Foothills Wetland Mixedwood

Appendix V -22

ADE

P6_ALL_PLOTS

Dataset Information

Description:	P6 MDFP Pe	rmanent Sample Plots	3	P6 MDFP Permanent Sample Plots				
Data Source:	Greenlink Pe	rmanent Sample Plots	GPS locations for	FMU P6				
Date Generated:	2000 - 2002							
Processing:	None							
Data Format:	Arc/Info cove	rage						
Software Used:	ESRI ArcGIS							
Projection:	UTM Zone 11	l						
Datum:	NAD 83							
Units:	metres							
Data Precision:	Double							
Tolerance:	Fuzzy @ 0.00	01						
Scale of Capture:	GPS							
Data Dictionary	,							
Column Name AREA PERIMETER P6_ALL_PLOTS# P6_ALL_PLOTS-ID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0	<i>Column</i> Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id	Item Value	Item Description				

Data Dictionaries for Submitted and Input Datasets



P69_AVI

Dataset Information

Description:	AVI v2.1 coverage for both P6 and P9.
Data Source:	Both input coverages were created by Greenlink in AVI V2.2. Coverages were converted to AVI v2.1 by SRD after approval.
Date	P6 current to 1997 and P9 current to 2000
Processing:	Created by appending P6_AVI_21 and P9_AVI_21 coverages. Furthermore, attributes from NSR_1994, COMPART, TRAPLINE_PV, WILD_MGT, and CBU_2005 were added to the AVI
Data Format:	Arc/Info Coverage
Software Used:	ESRI ArcGIS
Projection:	UTM Zone 11
Datum:	NAD 83
Units:	Metres
Data Precision:	Double
Tolerance:	Fuzzy @ 0.001
Scale of Capture:	Photos @ 1:20,000

Data Dictionary

Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		-
PERIMETER	8,18,F,5	Perimeter (m.)		
P69_AVI#	4,5,B,0	Internal ArcInfo No.		
P69_AVI-ID	4,10,B,0	ArcInfo User Id		
ID	10,10,1,0			
FORESTKEY	10,10,1,0	Unique AVI Polygon		
POLY_NUM OLDID	10,10,l,0 4,4,l,0	AVI Polygon Number		
SDBID	10,10,1,0			
TRM	6,6,1,0	Township/Range/Meridia	an	
COMPART	2,5,B,0	Working Circle number		
		Ū.	0	
			1	Working Circle # 1
			2	Working Circle # 2
			3	Working Circle # 3
			4	Working Circle # 4
			5	Working Circle # 5 Working Circle # 6
WILD_MGT	50,30,C,0	Wildlife management	0	Working Circle # 0
	00,00,0,0,0	Wildlife Hallagement	9999	
			Caribou	Caribou management zone
			SpecialAccess	Special access management zone
			Ungulate	Ungulate management zone
NSR_CODE	2,5,B,0	Natural subregion codes		
			0	Laura Easthille
			12 2	Lower Foothills Wetland Mixedwood
			9	Dry Mixedwood
NSR NAME	30,30,C,0	Natural subregion name		Dry Mixedwood
	/ / - / -		Dry Mixedwood	
			Lower Foothills	
			and Mixedwood	
REG_G_DOM	4,10,B,0	Breeding Region G		
			0	Not within Breeding Region G
	4 40 0 0	Dreading Degion	100	Within Breeding Region G
REG_J_DOM	4,10,B,0	Breeding Region J	0	Not within Breeding Region J
			100	Within Breeding Region J
CBU 2005	16,16,C	Alternative Patch Manag		
	., ., -		Caribou_2005	Alternative Patch Management Zone
				-

ADIE

P69_AVI.ATT

Dataset Information

Description:	AVI v2.1 attributes for both P6 and P9.
Data Source:	Both input coverages were created by Greenlink in AVI V2.2. Coverages were converted to AVI v2.1 by SRD after approval.
Date	P6 current to 1997 and P9 current to 2000
Processing:	
Data Format:	
Software Used:	
Projection:	
Datum:	
Units:	
Data Precision:	
Tolerance:	
Scale of Capture:	

Data Dictionary

Column Name POLY_NUM MOIST_REG	<i>Type W.D</i> 10,10,1,0 1,1,C,0	<i>Column</i> AVI Polygon Number Moisture Regime	Item Value	Item Description
		C C	a	Aquatic
			d m	Dry Mesic
			w	Wet
DENSITY	1,1,C,0	Density Code		
			A	6 - 30% crown closure
			B C	31 - 50% crown closure 51 - 70% crown closure
			D	71 - 100% crown closure
HEIGHT	4,10,B,0	Height (m)		
SP1	2,2,C,0	Species 1 Code	Aw	Trembling Aspen
			Bw	White Birch
			Lt	Larch
			P	Undifferentiated Pine
			Pb Pj	Balsam Poplar Jack Pine
			PI	Lodgepole Pine
			Sb	Black Spruce
	4 4 9 5 9	0	Sw	White Spruce
SP1_PER SP2	4,10,B,0 2,2,C,0	Species 1 Percent Species 2 Code		
0.2	2,2,0,0		Aw	Trembling Aspen
			Bw	White Birch
			Lt P	Larch Undifferentiated Pine
			Pb	Balsam Poplar
			Pj	Jack Pine
			PI	Lodgepole Pine
			Sb Sw	Black Spruce White Spruce
SP2_PER	4,10,B,0	Species 2 Percent	011	
SP3	2,2,C,0	Species 3 Code		
			Aw Bw	Trembling Aspen White Birch
			Lt	Larch
			Р	Undifferentiated Pine
			Pb	Balsam Poplar Jack Pine
			Pj Pl	Lodgepole Pine
			Sb	Black Spruce
			Sw	White Spruce
SP3_PER SP4	4,10,B,0	Species 3 Percent Species 4 Code		
01'4	2,2,C,0	opecies 4 Code	Aw	Trembling Aspen
			Bw	White Birch
			Lt	Larch



			P Pb Pj Pl Sb Sw	Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
SP4_PER SP5 SP5_PER STRUC	4,10,B,0 2,2,C,0 4,10,B,0 1,1,C,0	Species 4 Percent Species 5 Code Species 5 Percent Structure Code	0	
	1,1,0,0		C H M	51 - 70% crown closure Horizontal Multi Storey
STRUC_VAL ORIGIN TPR	4,10,B,0 4,10,B,0 1,1,C,0	Structure Percent Year of Origin Timber Productivity	F	Fair
			G M U	Good Multi Storey Unproductive
INITIALS NFL	2,2,C,0 2,2,C,0	Interpreter Initials Non Forest Land Code	BR	Bryophyte
			HF HG SC SO	Herbaceous Forb Herbaceous Grassland Shrub - Closed Shrub - Open
NAT_NON	3,3,C,0	Naturally NonForest Code	NMC NMS NWF NWI NWL	Cutbank Sand Flooded Ice Lakes
ANTH_VEG	3,3,C,0	Anthropogenic Vegetated Code	NWR CA CIP	Rivers Annual Crops Transmission/Pipelines
		Asthronogonia Non	CIW CP CPR	Geophysical Features Seeded Perennial Crops Rough Pasture
ANTH_NON	3,3,C,0	Anthropogenic Non Vegetated Code	AIF AIG	Farmsteads Gravel Pits
MOD1	2,2,C,0	Modifier 1 Code	AIH BU CC CL SN ST	Permanent Right-of-Way Burn Clearcut Clearing Snag Scattered Timber
MOD1_EXT MOD1_YR MOD2	4,10,B,0 4,10,B,0 2,2,C,0	Modifier 1 Extent Modifier 1 Year Modifier 2 Code	TH	Thinning
MOD2_EXT	4,10.B,0	Modifier 2 Extent	SC SN ST	Shrub - Closed Snag Scattered Timber
MOD2_LXT MOD2_YR DATA	4,10,B,0 4,10,B,0 1,1,C,0	Modifier 2 Year Data Reference	A	6 - 30% crown closure
		Data Datasan Visar	F I V	Fair Interpreted TPR Volume Plot
DATA_YR UMOIST_REG	4,10,B,0 1,1,C,0	Data Reference Year US - Moisture Regime	d m	Dry Mesic
UDENSITY	1,1,C,0	US - Density	w A B C	Wet 6 - 30% crown closure 31 - 50% crown closure 51 - 70% crown closure
UHEIGHT USP1	4,10,B,0 2,2,C,0	US - Height (m) US - Species 1 Code	D	71 - 100% crown closure

USP1_PER	4,10,B,0	US - Species 1 Percent	Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
USP2	2,2,C,0	US - Species 2 Code	Aw Bw Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
USP2_PER USP3	4,10,B,0 2,2,C,0	US - Species 2 Percent US - Species 3 Code	Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
USP3_PER USP4	4,10,B,0 2,2,C,0	US - Species 3 Percent US - Species 4 Code	Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
USP4_PER USP5 USP5_PER USTRUC	4,10,B,0 2,2,C,0 4,10,B,0 1,1,C,0	US - Species 4 Percent US - Species 5 Code US - Species 5 Percent US - Structure Code	Зw	Horizontal
USTRUC_VAL UORIGIN UTPR	4,10,B,0 4,10,B,0 1,1,C,0	US - Structure Percent US - Year of Origin US - Timber Productivity Rating	F G	Fair Good
UINITIALS UNFL	2,2,C,0 2,2,C,0	US - Interpreter Initials US - NonForest Land	M U BR	Multi Storey Unproductive Bryophyte
			HF HG SC SO	Herbaceous Forb Herbaceous Grassland Shrub - Closed Shrub - Open
UNFL_PER UNAT_NON	4,10,B,0 3,3,C,0	US - NonForest Percent Cover US - Naturally NonForest	NWF NWL	Flooded Lakes
UANTH_VEG	3,3,C,0	US - Anthropogenic Vegetated	NWR	Rivers Transmission/Pipelines
UANTH_NON	3,3,C,0	US - Anthropogenic Non Vegetated	CP CPR	Perennial Crops Rough Pasture
UMOD1	2,2,C,0	US - Modifier 1 Code	AIF AIG	Farmsteads Gravel Pits



UMOD1_EXT	4,10,B,0	US - Modifier 1 Extent
UMOD1_YR	4,10,B,0	US - Modifier 1 Year
UMOD2_EXT	2,2,C,0	US - Modifier 2 Code
UMOD2_EXT	4,10,B,0	US - Modifier 2 Extent
UMOD2_YR	4,10,B,0	US - Modifier 2 Year
UDATA	1,1,C,0	US - Data Reference
UDATA_YR	4,10,B,0	US - Data Reference Year
TRM	6,6,I,0	Township/Range/Meridian
FORESTKEY	10,10,I,0	Unique AVI Polygon

CL SC ST

F I Fair Interpreted TPR

P69_LAKES

Dataset Inform	ation			
Description:	AVI Lakes			
Data Source:	Extracted fror	m AVI		
Date Generated:	Same as AVI			
Processing:		AVI where nat_non KES coverages.	= NWL. Removed	lakes that will be buffered in SWAN and
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	1:20,000			
Data Dictionary	y			
<i>Column Name</i> AREA PERIMETER P69_LAKES# P69_LAKES-ID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id	Item Value	Item Description



P69_MAJRIV

Description:	Major rivers f	rom avi and SRD hyd	ropolys	
Data Source:	Combined fro	om AVI rivers and SRI) hydropolys	
Date Generated:	Unknown			
Processing:	Polygons sele where require		ere nat_non = NW	R and updated from the SRD hydropolys coverage
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11	1		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	1:20,000			
Data Dictionary	y			
Column Name AREA PERIMETER P69_MAJRIV# P69_MAJRIV-ID IN LAKES B	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 3,3,1,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Buffered Lakes	Item Value	Item Description
	0,0,1,0	Duncied Eakes	1	Not within lakes buffer
MAJRIV_TYPE	20,20,C,0	River type	OXBOW-PER RIV-MAJ	Oxbow lakes Major rivers
IN_MAJRIV_B	3,3,1,0	Buffered rivers		·
IN STREAM B	3,3,1,0	Buffered streams	1	Not within major river buffer
	0,0,1,0	Duncieu Streams	1	Not within stream buffer

ADIE

P69_PSP_B

Description: Data Source:	,0	ers of MDFP Permane		rs
Date Generated:	June, 2005			
Processing:	Buffers of P6	_ALL_PLOTS and P9_	ALL_PLOTS then	append together. Command line process.
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11	l		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	N/A			
Data Dictionary	,			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
PERIMETER	8,18,F,5	Perimeter (m.)		
P69_PSP_B#	4,5,B,0	Internal ArcInfo No.		
P69_PSP_B-ID	4,5,B,0	ArcInfo User Id		
IN_MDFP_PSP_B	3,3,1,0	MDFP PSP Buffers	0	
			0 100	Not within MDFP PSP buffer Within MDFP PSP buffer
			100	



P69_RIVBRK

Dataset Information

Description:	River Break c	deletion coverage			
Data Source:				sing local professional knowledge. Objective is to	
		with large amount of i	noperable slope as	sociated with hydrology features.	
Date Generated:	April 2004				
Processing:	Appended P6	3 and P9 coverages int	o one coverage		
Data Format:	Arc/Info cove	rage			
Software Used:	ESRI ArcGIS				
Projection:	UTM Zone 11	1			
Datum:	NAD 83				
Units:	metres				
Data Precision:	Double				
Tolerance:	Fuzzy @ 0.00	01			
Scale of Capture:	1:20,000				
Data Dictionary	7				
Column Name	Type W.D	Column	Item Value	Item Description	
AREA	8,18,F,5	Area (sq.m.)		-	
PERIMETER	8,18,F,5	Perimeter (m.)			
P69_RIVBRK#	4,5,B,0	Internal ArcInfo No.			
P69_RIVBRK-ID RIVER BREAK	4,5,B,0 5,5,C,0	ArcInfo User Id River Breaks			
	0,0,0,0			N I I I I I	

NMZ Notekewin Management zone P6 P6 river breaks P9 P9 river breaks

ADIE

P6WELLS_CUT

Description:	Oil and Gas n	on-linear dispositions		
Data Source:	LANDBASE2	004 coverage where dis	p_type = MSL and	d P6wells_indx2 where feature_type = wellsite
Date Generated:	2004 and 200	3		
Processing:	Selected item	s from each coverage w	ere unioned toget	ther, selection further reduced where wellsite already
-	exists in AVI	-	-	
Data Format:	Arc/Info cover	age		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	1		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name		C 1	T. TT 1	
Coumn Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)	Item Value	Item Description
AREA PERIMETER	8,18,F,5 8,18,F,5	Area (sq.m.) Perimeter (m.)	Item Value	Item Description
AREA PERIMETER P6WELLS_CUT#	8,18,F,5 8,18,F,5 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No.	Item Value	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id		Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY#	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatio	on	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id	on on	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic	חס מ חס	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS# RINGS_OK RINGS_NOK	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,I,0 7,7,I,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic	วก วก ภก วก	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS RINGS_OK RINGS_NOK P6WELLS_IN	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,1,0 7,7,1,0 8,9,F,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic Internal Region informatic	วก วก ภก วก	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS RINGS_OK RINGS_NOK P6WELLS_IN P6WELLS_1	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,1,0 7,7,1,0 8,9,F,0 8,9,F,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic Internal Region informatic	วก วก ภก วก	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS SUBCLASS# RINGS_OK RINGS_NOK P6WELLS_IN P6WELLS_11 TILE_NAME	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,I,0 7,7,I,0 8,9,F,0 8,9,F,0 32,32,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic Internal Region informatic	วก วก ภก วก	Item Description
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS RINGS_OK RINGS_NOK P6WELLS_IN P6WELLS_1	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,1,0 7,7,1,0 8,9,F,0 8,9,F,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic Internal Region informatic	מ ח ח ח ח ח	-
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS RINGS_OK RINGS_NOK P6WELLS_IN P6WELLS_1 TILE_NAME FEATURE_TY	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,1,0 7,7,1,0 7,7,1,0 8,9,F,0 8,9,F,0 32,32,C,0 30,30,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic Internal Region informatic	วก วก ภก วก	<i>Item Description</i> Wellsite
AREA PERIMETER P6WELLS_CUT# P6WELLS_CUT-ID POLY# SUBCLASS SUBCLASS SUBCLASS# RINGS_OK RINGS_NOK P6WELLS_IN P6WELLS_11 TILE_NAME	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0 4,5,B,0 7,7,I,0 7,7,I,0 8,9,F,0 8,9,F,0 32,32,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informatic Internal Region informatic Internal Region informatic Internal Region informatic	מ ח ח ח ח ח	-



P9_ALL_PLOTS

Description:	P9 MDFP PS	iP's		
Data Source:	Greenlink Pe	rmanent Sample Plots	GPS locations for	FMU P9
Date Generated:	2000 - 2002			
Processing:	None			
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11	l		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	GPS			
Data Dictionary	7			
Column Name	Type W.D	Column	Item Value	Item Description
AREA PERIMETER	8,18,F,5	Area (sq.m.)		-
PERIMETER P9 ALL PLOTS#	8,18,F,5 4,5,B,0	Perimeter (m.) Internal ArcInfo No.		
P9_ALL_PLOTS-ID	4,5,B,0	ArcInfo User Id		

P9_NOTWP

Dataset Information

Description:	P9 AVI v2.1			
Data Source:	Interpreted by	/ Greenlink and based or	n 2000 photos	
Date Generated:	2000			
Processing:	Standard AVI	protocols, originally AVI	version 2.2, con	verted to AVI version 2.1
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	1:20,000 and	1.60.000		
scale of Capture.	1.20,000 anu	1.00,000		
Data Dictionary		1.00,000		
5 1			Item Value	Item Description
Data Dictionary <i>Column Name</i> AREA	<i>Type W.D</i> 8,18,F,5	<i>Column</i> Area (sq.m.)	Item Value	Item Description
Data Dictionary <i>Column Name</i> AREA PERIMETER	<i>Type W.D</i> 8,18,F,5 8,18,F,5	<i>Column</i> Area (sq.m.) Perimeter (m.)	Item Value	Item Description
Data Dictionary Column Name AREA PERIMETER P9_NOTWP#	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0	<i>Column</i> Area (sq.m.) Perimeter (m.) Internal ArcInfo No.	Item Value	Item Description
Data Dictionary <i>Column Name</i> AREA PERIMETER	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,10,B,0	<i>Column</i> Area (sq.m.) Perimeter (m.)	Item Value	Item Description
Data Dictionary Column Name AREA PERIMETER P9_NOTWP# P9_NOTWP-ID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0	<i>Column</i> Area (sq.m.) Perimeter (m.) Internal ArcInfo No.	Item Value	Item Description
Data Dictionary Column Name AREA PERIMETER P9_NOTWP# P9_NOTWP-ID ID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,10,B,0 10,10,I,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id		Item Description
Data Dictionary Column Name AREA PERIMETER P9_NOTWP# P9_NOTWP-ID ID FORESTKEY POLY_NUM OLDID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,10,B,0 10,10,1,0 10,10,1,0 10,10,1,0 4,4,1,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Unique key for AVI		Item Description
Data Dictionary Column Name AREA PERIMETER P9_NOTWP# P9_NOTWP-ID ID FORESTKEY POLY_NUM OLDID SDBID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,10,B,0 10,10,I,0 10,10,I,0 10,10,I,0 4,4,I,0 10,10,I,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Unique key for AVI		Item Description
Data Dictionary Column Name AREA PERIMETER P9_NOTWP# P9_NOTWP-ID ID FORESTKEY POLY_NUM OLDID	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,10,B,0 10,10,1,0 10,10,1,0 10,10,1,0 4,4,1,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Unique key for AVI		Item Description

Data Dictionaries for Submitted and Input Datasets



ROADS

			KOADS				
Dataset Informa	ation						
Description:	Non-AVI road	ls					
Data Source:	GPS coverag	GPS coverages from MDFP and Landuse2004 coverage from Greenlink					
Date Generated:	Various			-			
Processing:	Manual proce	ess of extracting from	Landuse2004 cove	rage where disp_type = LOC. Roads added from GPS			
Ū	files and remo	oved where already e	existed in AVI.				
Data Format:	Arc/Info cove	rage					
Software Used:	ESRI ArcGIS						
Projection:	UTM Zone 11						
Datum:	NAD 83						
Units:	metres						
Data Precision:	Double						
Tolerance:	Fuzzy @ 0.00	01					
Scale of Capture:	Unknown						
Data Dictionary	7						
Column Name	Type W.D	Column	Item Value	Item Description			
FNODE#	4,5,B,0	From node number.		I I I I I I I I I I I I I I I I I I I			
TNODE#	4,5,B,0	To node number					
LPOLY# RPOLY#	4,5,B,0 4,5,B,0	Poly no. on left. Poly no. on right.					
LENGTH	4,3,8,0 8,18,F,5	Length of arc segmer	nt (m.)				
ROADS#	4,5,B,0	Internal ArcInfo No.					
ROADS-ID	4,5,B,0	ArcInfo User Id					
DESCRIPTION	50,50,C,0	Description	100 road				
			245 Haul road				
			262 Haul road				
		F ;	Cran road				
		FI	nal main haul road GRAVELRD				
			MAINRD				
			TRUCKTRAIL				
			UNIMPROVEDRD Vista road				
BUFFER	8,10,F,3	Buffer width	Visia load				
	-, -, ,-		0	No buffer required			
			10	Buffer distance of 10 m each side			
			15 2.5	Buffer distance of 15 m each side Buffer distance of 2.5 m each side			
			20	Buffer distance of 20 m each side			
			3	Buffer distance of 3 m each side			
			30 4	Buffer distance of 30 m each side Buffer distance of 4 m each side			
			4 5	Buffer distance of 5 m each side			
			7.5	Buffer distance of 7.5 m each side			
ROAD_SRC	14,14,C,0	Road Source	0.000	020			
			GPS GREEN LINEAR	source = GPS source = Greenlink linear update			
			GREEN_RD_CUT	source = revised Greenlink linear update			

ROADS_B

Dataset Information

Description:	Road buffers			
Data Source:	Created by b	uffering road at variou	s widths as specifie	ed in BUFFER column
Date Generated:	June 2005			
Processing:	Arc/Info buffe	r command.		
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS	-		
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	N/A			
Data Dictionary	,			
Column Name	<i>Type W.D</i> 8,18,F,5	<i>Column</i> Area (sq.m.)	Item Value	Item Description
PERIMETER	8,18,F,5	Perimeter (m.)		
ROADS_B#	4,5,B,0	Internal ArcInfo No.		
ROADS_B-ID INSIDE	4,5,B,0 4,5,B,0	ArcInfo User Id Road buffers		
	4,0,0,0		1 100	Not within a road buffer Within a road buffer

Data Dictionaries for Submitted and Input Datasets



SEISMIC

			SEISMIC				
Dataset Inform	ation						
Description:	P69 cutline c	P69 cutline coverage					
Data Source:	P6 is from M/	ADP Library - transpor	t layer. P9 is from	Greenlink Landuse update. Further updates from			
	Greenlink als	o added.					
Date Generated:	Both base co	verages are current to	2003, updates we	re received May 2005.			
Processing:	P6 and P9 cc	overages were append	ed together to crea	ate one coverage for the FMA.			
Data Format:	Arc/Info cove	rage					
Software Used:	ESRI ArcGIS						
Projection:	UTM Zone 11	1					
Datum:	NAD 83						
Units:	metres						
Data Precision:	Double						
Tolerance:	Fuzzy @ 0.00	01					
Scale of Capture:	Unknown						
Data Dictionary	V						
Column Name	Type W.D	Column	Item Value	Item Description			
FNODE#	4,5,B,0	From node number.		<i>I</i>			
TNODE#	4,5,B,0	To node number					
LPOLY# RPOLY#	4,5,B,0 4,5,B,0	Poly no. on left. Poly no. on right.					
LENGTH	8,18,F,5	Length of arc segment	(m.)				
SEISMIC#	4,5,B,0	Internal ArcInfo No.	· · /				
SEISMIC-ID	4,5,B,0	ArcInfo User Id					
DEP_WIDTH	4,3,B,0	Depletion width code	0	Width code = 0, class = $0-1m$			
			1	Width code = 1, class = $2-5m$			
			2	Width code = 2, class = $6-10m$			
			3	Width code = 3, class = $11-15m$			
			4 5	Width code = 4, class = 16-20m Width code = 5, class = 21-25m			
			6	Width code = 6, class = $26-30m$			
			99	Width code = Unknown, assumed 8m wide			
BUFFER	6,6,N,2	Buffer width	0	No huffer required			
			1.75	No buffer required Buffer distance of 1.75 m each side			
			11.5	Buffer distance of 11.5 m each side			
			14	Buffer distance of 14 m each side			
			4	Buffer distance of 4 m each side			
			6.5 9	Buffer distance of 6.5 m each side Buffer distance of 9 m each side			
			9				

ADIE

SRD_PSP

Dataset Information

Description:	SRD Perman	ent Sample Plots		
Data Source:	SRD			
Date Generated:	Unknown			
Processing:	None			
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11	l		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	Unknown			
Data Dictionary	7			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
PERIMETER SRD PSP#	8,18,F,5 4,5,B,0	Perimeter (m.) Internal ArcInfo No.		
SRD_PSP-ID	4,5,B,0 4,5,B,0	ArcInfo User Id		
PLOT	9,9,C,0	SRD plots		
			1	

1 1069



STREAM_B

Description:	Stream buffe	rs					
Data Source:	Created by b	Created by buffering selected features in mdfp_slnet 30m					
Date Generated:	June 2005	June 2005					
Processing:	Arc/Info buffer command.						
Data Format:	Arc/Info cove	rage					
Software Used:	ESRI ArcGIS						
Projection:	UTM Zone 11	1					
Datum:	NAD 83						
Units:	metres						
Data Precision:	Double						
Tolerance:	Fuzzy @ 0.00	01					
Scale of Capture:	N/A						
Data Dictionary	7						
Column Name	Type W.D	Column	Item Value	Item Description			
AREA	8,18,F,5	Area (sq.m.)		-			
PERIMETER	8,18,F,5	Perimeter (m.)					
STREAM_B# STREAM B-ID	4,5,B,0 4,5,B,0	Internal ArcInfo No. ArcInfo User Id					
IN_LAKES_B	3,3,1,0	Buffered lakes					
			1	Not within lakes buffer			
MAJRIV_TYPE IN MAJRIV B	20,20,C,0	River type Buffered rivers					
	3,3,I,0	Dulleleu IIVelS	1	Not within major river buffer			
IN_STREAM_B	3,3,1,0	Buffered streams		·			
			1 100	Not within stream buffer Within stream buffer			

ADIE 2

SWAN

Data Source: Extracted from EOS dataset	
Date Generated: Unknown	
Processing: Extracted from EOS Dataset where scomname = trumpeter swan (outline follows outline of I	akes in AVI)
Data Format: Arc/Info coverage	,
Software Used: ESRI ArcGIS	
Projection: UTM Zone 11	
Datum: NAD 83	
Units: metres	
Data Precision: Double	
<i>Tolerance:</i> Fuzzy @ 0.001	
Scale of Capture: Unknown	
Data Dictionary	
•	
Column Name Type W.D Column Item Value Item Description	
AREA 8,18,F,5 Area (sq.m.)	
PERIMETER 8,18,F,5 Perimeter (m.)	
SWAN# 4,5,B,0 Internal ArcInfo No.	
SWAN-ID 4,5,B,0 ArcInfo User Id	
BUFFER 6,6,N,1 Buffer width	
0.0 No buffer required	
200.0 Buffer distance of 200 m	
SWAN 3,3,C,0 Swan lakes	
Y Within a swan lake	



SWAN_B

Dataset Information

Description:	Trumpter Swa	an Lakes buffer			
Data Source:	Created by b	uffering SWAN 200m			
Date Generated:	June 2005				
Processing:	Arc/Info buffe	r command.			
Data Format:	Arc/Info cove	rage			
Software Used:	ESRI ArcGIS	-			
Projection:	UTM Zone 11	l			
Datum:	NAD 83				
Units:	metres				
Data Precision:	Double				
Tolerance:	Fuzzy @ 0.001				
Scale of Capture:	N/A				
Data Dictionary					
Column Name	Type W.D	Column	Item Value	Item Description	
AREA	8,18,F,5	Area (sq.m.)		•	
PERIMETER	8,18,F,5	Perimeter (m.)			
SWAN_B#	4,5,B,0	Internal ArcInfo No.			
SWAN_B-ID	4,5,B,0	ArcInfo User Id			
IN_SWAN_B	4,5,B,0	Swan lake buffers			
			1 100	Not within a swan lake buffer Within a swan lake buffer	
			100	within a swarl lake buller	

Appendix V -42

ADIE 2

TRAPLINE_PV

Dataset Informa	tion				
Description:	Fur managen	nent areas			
Data Source:	From SRD - I	RFMA coverage			
Date Generated:	January 2004	1			
Processing:		om dgn to coverage by n consultation with MDF		d to UTM Zone 11 - NAD 83 CNT.	Some corrections
Data Format:	Arc/Info cove	rage			
Software Used:	ESRI ArcGIS				
Projection:	UTM Zone 11	1			
Datum:	NAD 83				
Units:	metres				
Data Precision:	Double				
Tolerance:	Fuzzy @ 0.00	01			
Scale of Capture:	Unknown				
Data Dictionary					
Column Name	Type W.D	Column	Item Value	Item Description	
AREA PERIMETER TRAPLINE_PV# TRAPLINE_PV-ID TRAPLINE	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 4,10,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Fur Management areas			
	, -, ,-		0	No trapline	
			1233 1236		
			1236		
			1258		
			1347		
			1397 1510		
			1514		
			1539		
			1601 1603		
			1655		
			1731		
			1755		
			1971 2031		
			2049		
			2147		
			2187 2208		
			2208		
			2269		
			2284		
			2303 2325		
			2357		
			2362		
			2364 2442		
			2442		
			2490		
			2596		
			2712 2758		
			2808		
			2809		



TWIN_LODGE

Dat	ase	et	Information	

Description:	Twin Lodge N	/LL					
Data Source:	AVI	AVI					
Date Generated:	Same as AVI						
Processing:	Extracted pol	ygon FORESTKEY =	972250504 from A\	/I with intent of buffering.			
Data Format:	Arc/Info cove	rage		5			
Software Used:	ESRI ArcGIS	0					
Projection:	UTM Zone 11						
Datum:	NAD 83						
Units:	metres						
Data Precision:	Double						
Tolerance:	Fuzzy @ 0.00)1					
Scale of Capture:	1:20,000						
Data Dictionary							
Column Name	Type W.D	Column	Item Value	Item Description			
AREA	8,18,F,5	Area (sq.m.)					
PERIMETER	8,18,F,5	Perimeter (m.)					
TWIN_LODGE#	4,5,B,0	Internal ArcInfo No.					
TWIN_LODGE-ID AVI 21	4,5,B,0 8,9,F,0	ArcInfo User Id					
AVI_21_ID	8,9,F,0						
	0,0,1,0		0				
			972250504	AVI forestkey that identifies Twin Lodge			

YDIZ

TWINLGE_B

Dutubet miterine	etion .			
Description:	Twin Lakes Lo	odge management zone	Э	
Data Source:	Created by bu	uffering TWIN_LODGE	100m	
Date Generated:	June 2005			
Processing:	Arc/Info buffe	r command.		
Data Format:	Arc/Info cover	rage		
Software Used:	ESRI ArcGIS	-		
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	N/A			
Data Dictionary				
Column Name AREA PERIMETER TWINLGE_B# TWINLGE_B-ID IN TWINLGE B	<i>Type W.D</i> 8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 4,5,B,0	Column Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Twin Lake Lodge buffer	Item Value	Item Description
	,-, , -		1 100	Not within Twin Lodge deletion Within Twin Lodge deletion



TWINLK_B

Dataset Information

Description:	Twin Lakes buffer					
Data Source:	Created by b	Created by buffering AVITWIN_LAKES 200m				
Date Generated:	June 2005	-				
Processing:	Arc/Info buffe	r command.				
Data Format:	Arc/Info cove	rage				
Software Used:	ESRI ArcGIS	0				
Projection:	UTM Zone 11					
Datum:	NAD 83					
Units:	metres					
Data Precision:	Double					
Tolerance:	Fuzzy @ 0.00)1				
Scale of Capture:	N/A					
Data Dictionary						
Column Name	Type W.D	Column	Item Value			
AREA	8,18,F,5 Area (sq.m.)					
PERIMETER	8,18,F,5 Perimeter (m.)					
TWINLK_B#	4,5,B,0	Internal ArcInfo No.				
TWINLK_B-ID	4,5,B,0	ArcInfo User Id				
IN_TWINLK_B	4,5,B,0	Twin Lake buffer				

Item Description

Not within Twin lake deletion buffer
 Within Twin lake deletion buffer

1 100

ADIE

TWINLK_REC

Description:	Twin Lakes re	ecreation area		
Data Source:	Data provide	d by Parks and Protect	ed Areas Division,	Alberta Community Development
Date Generated:	June 2004			
Processing:	Projected from	m 10TM to UTM Zone	11 - NAD 83	
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS	0		
Projection:	UTM Zone 11	1		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		-
PERIMETER	8,18,F,5	Perimeter (m.)		
TWINLK_REC#	4,5,B,0	Internal ArcInfo No.		
TWINLK_REC-ID	4,5,B,0	ArcInfo User Id		
REC	40,40,C,0	Recreation areas		
			Twin Lakes	Twin lakes recreation area
TYPE	9,9,C,0	Recreation area type		
			PRA	Provincial Recreation Area



TWISTEDBOG

Dutubet Informa				
Description:	Twisted Bog I	Moss manageme	ent zone	
Data Source:	Extracted fror	n EOS dataset		
Date Generated:	Unknown			
Processing:	Extracted fror	n EOS Dataset v	where scomname = twist	ed bog moss
Data Format:	Arc/Info cover	rage		
Software Used:	ESRI ArcGIS	•		
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
PERIMETER	8,18,F,5	Perimeter (m.)		
TWISTEDBOG#	4,5,B,0	Internal ArcInfo	No.	
TWISTEDBOG-ID	4,5,B,0	ArcInfo User Id		
POLY#	4,5,B,0	Internal Region i		
SUBCLASS	13,13,C,0	Internal Region i	nformation	
SNAME	254,254,C,0	Scientific name		
DOC	254 254 0 0	Twisted here area	Sphagnum contortum	Within twisted bog moss management zone
BOG	254,254,C,0	Twisted bog area	a twisted bog moss	Within twisted bog moss management zone
				management zone

WATERSHED

Dataset Information	
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Dataset Informa	ation			
Description:	Watershed bo	oundaries		
Data Source:	Digitized by N	/IDFP		
Date Generated:	Approved Jur	ne 2005		
Processing:	None			
Data Format:	Arc/Info cove	rage		
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11	l		
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00	01		
Scale of Capture:	Unknown			
Data Dictionary	7			
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)	Item Value	Item Description
AREA PERIMETER	8,18,F,5 8,18,F,5	Area (sq.m.) Perimeter (m.)	Item Value	Item Description
AREA PERIMETER WATERSHED#	8,18,F,5 8,18,F,5 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No.	Item Value	Item Description
AREA PERIMETER WATERSHED# WATERSHED-ID	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id		Item Description
AREA PERIMETER WATERSHED#	8,18,F,5 8,18,F,5 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa		Item Description
AREA PERIMETER WATERSHED# WATERSHED-ID	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa	ation TERSHED_REG	
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation TERSHED_REG 0	Item Description
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation TERSHED_REG 0 1	
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation TERSHED_REG 0	
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation ITERSHED_REG 0 1 10 11 12	
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation TERSHED_REG 0 1 10 11 12 13	
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation TERSHED_REG 0 1 10 11 12 13 13	
AREA PERIMETER WATERSHED# WATERSHED-ID SUBCLASS	8,18,F,5 8,18,F,5 4,5,B,0 4,5,B,0 13,13,C,0	Area (sq.m.) Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Internal Region informa WA	ation TERSHED_REG 0 1 10 11 12 13	



WILD_MGT

Caribou SpecialAccess

Ungulate

Dataset Information

Description:	Wildlife mana	gement zones		
Data Source:		al layer originally calle	d 'Wildlife'	
Date Generated:	unknown	,		
Processing:		where type = CARIBO	U or UNGULATE o	or SPECIAL ACCESS
Data Format:	Arc/Info cover			
Software Used:	ESRI ArcGIS			
Projection:	UTM Zone 11			
Datum:	NAD 83			
Units:	metres			
Data Precision:	Double			
Tolerance:	Fuzzy @ 0.00)1		
Scale of Capture:	Unknown			
Data Dictionary				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		-
PERIMETER	8,18,F,5	Perimeter (m.)		
WILD_MGT#	4,5,B,0	Internal ArcInfo No.		
WILD_MGT-ID	4,5,B,0	ArcInfo User Id		
	40.40.0.0	MARIE AND A REAL AND A		

PERIMETER WILD_MGT# WILD_MGT-ID TYPE

Perimeter (m.) Internal ArcInfo No. ArcInfo User Id Wildlife management zone

16,16,C,0

Caribou management zone Special access management zone Ungulate management zone

Appendix V -50

YDIZ

Z_HYDRO

Description: Data Source:	Unioned and dissolved hydro buffers (streams, rivers and lakes) MAJRIV_B, LAKE_B and STREAM_B coverages.					
Date Generated:	June 2005					
Processing: Data Format:	•	om MAJRIV_B, LAKE_	D and STREAM_	B coverages.		
2 and 1 orman	Arc/Info cove	0				
Software Used:	ESRI ArcGIS					
Projection:	UTM Zone 11					
Datum:	NAD 83					
Units:	metres					
Data Precision:	Double					
Tolerance:	Fuzzy @ 0.00	01				
Scale of Capture:	N/A					
Data Dictionary						
Column Name	Type W.D	Column	Item Value	Item Description		
AREA	8,18,F,5	Area (sq.m.)				
PERIMETER	8,18,F,5	Perimeter (m.)				
Z_HYDRO#	4,5,B,0	Internal ArcInfo No.				
Z_HYDRO-ID IN_LAKES_B	4,5,B,0 3,3,I,0	ArcInfo User Id Buffered Lakes				
	0,0,1,0	Bullered Eakes	1	Not within lakes buffer		
			100	Within lakes buffer		
MAJRIV_TYPE	20,20,C,0	River type				
			OXBOW-PER	Oxbow lakes		
IN MAJRIV B	3,3,1,0	Buffered rivers	RIV-MAJ	Major rivers		
	5,5,1,0	Dulleleu livel3	1	Not within major river buffer		
			100	Within major river buffer		
IN_STREAM_B	3,3,1,0	Buffered streams				
			1	Not within stream buffer		
ISOLATED_HA	4,9,F,2	Area of original isolated polygon	100	Within stream buffer		



Z_LANDUSE

Description:	Unioned and	dissolved landuse (road	ls, pipelines)			
Data Source:	ROAD_B, PI	ROAD_B, PIPE_B and LANDUSE2004				
Date Generated:	June 2005					
Processing:	Union proces	s combining ROAD B, I	PIPE B and LAND	DUSE2004 where features are not found in the AVI.		
0	•	0	_	olved where overlapped to reduce slivers in the final		
	landbase.		, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·		
Data Format:	Arc/Info cove	rage				
Software Used:	ESRI ArcGIS	-				
Projection:	UTM Zone 11	1				
Datum:	NAD 83					
Units:	metres					
Data Precision:	Double					
Tolerance:	Fuzzy @ 0.00	01				
Scale of Capture:	N/A					
Data Dictionary	7					
Column Name	Type W.D	Column	Item Value	Item Description		
AREA	8,18,F,5	Area (sq.m.)		1		
PERIMETER	8,18,F,5	Perimeter (m.)				
Z_LANDUSE#	4,5,B,0	Internal ArcInfo No. ArcInfo User Id				
Z_LANDUSE-ID LANDUSE	4,5,B,0 8,8,C,0	Type of landuse deletion				
EARDOOL	0,0,0,0		EZE	Easements		
			MLL	Misc. Land Leases		
			MLP	Misc. Land Permits		
			PIPE PNT	Pipelines Protective notation		
			ROAD	Roads		
			WELL	Wellsites		
PNT	12,12,C,0	PNT Number				
			PNT020194	NIVMA Plot		
			PNT930344 PNT950022	Understory Protection Research Site Spruce Budworm Research Site		
			FINISOUZZ	Spruce Budworm Research Sile		

Appendix VI Data Dictionary for CLS Landbase

YDIZ

P16_LB4_CLS

Dataset Information

Description:	Result of Multi-union process
Data Source:	Multiple coverages
Date	October 2005
Processing:	Multiunion process, as described in Section 3
Data Format:	Arc/Info coverage
Software Used:	ESRI ArcGIS
Projection:	UTM Zone 11
Datum:	NAD 83
Units:	metres
Data Precision:	Double
Tolerance:	Fuzzy @ 0.001
Scale of Capture:	N/A

Data Dictionary

Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		
PERIMETER	8,18,F,5	Perimeter (m.)		
P16_LB4_CLS#	4,5,B,0	Internal ArcInfo No.		
P16_LB4_CLS-ID	4,5,B,0	ArcInfo User Id		
UKEY4_TMP	10,10,1,0	Unique Key - initial key f	0	
		assign attributes		
UKEY4_TSA	10,10,1,0	Unique Key - after arc elimination		
UKEY4	10,10,1,0	Unique Key - after unior with seismic		
SNAME	254,254,C,0	Scientific name		
		Sphag	num contortum	Within twisted bog moss management zone
BOG	254,254,C,0	Twisted bog area		
		tw	isted bog moss	Within twisted bog moss management zone
IN_GOVT_PSP_B	2,5,B,0	Inside PSP buffer		
			0	Not within a SRD PSP buffer
			100	Within a SRD PSP buffer
IN_MDFP_PSP_B	3,3,1,0	MDFP PSP Buffers		
			0	Not within MDFP PSP buffer
			100	Within MDFP PSP buffer
RIVER_BREAK	5,5,C,0	River Breaks	1147	
			NMZ P6	Notekewin Management zone
			P6 P9	P6 river breaks P9 river breaks
IN_SWAN_B	4,5,B,0	Swan lake buffers	F 3	F 9 liver breaks
IN_OWAN_D	4,0,0,0	Swall lake bullers	1	Not within a swan lake buffer
			100	Within a swan lake buffer
IN_TWINLK_B	4,5,B,0	Twin Lake buffer		
	/-/ /-		1	Not within Twin lake deletion buffer
			100	Within Twin lake deletion buffer
IN_TWINLGE_B	4,5,B,0	Twin Lake Lodge buffer		
			1	Not within Twin Lodge deletion
			100	Within Twin Lodge deletion
REC	40,40,C,0	Recreation areas	.	-
			Twin Lakes	Twin lakes recreation area
TYPE	9,9,C,0	Recreation area type	PRA	Provincial Recreation Area
INSIDE_BLK	3,3,1,0	Defines inside block	FRA	FIOVINCIAL RECLEATION ATEA
INSIDE_BLK	3,3,1,0	Dennes inside block	0	Not inside a block
			1	Not inside a block
			100	Within a block
OPENING	15,15,C,0	Opening Number		
BLK ID	25,25,C,0	Block Id field		
HARV_YR	4,4,1,0	Harvest Year		
			0	Not harvested
			1940	
			1966	
			1967	
			1968	
			1969	



		1970 1971	
		1972	
		1973	
		1975 1978	
		1978	
		1983	
		1984	
		1987 1992	
		1993	
		1997	
		1998 1999	
		2000	
		2001	
		2002 2003	
		2003	
HARV_NOTE	25,25,C,0	Note	
		Andy provided new op	
		CONTINGENCY DMI - PLANNED	Contingency block DMI planned block
		DMI - Understory Pro	Dim planied block
		DMI BLOCK	DMI existing block
		MDFP BLOCK Planned	MDFP existing block Planned block
		SWAP - DMI to MDFP	Swap from DMI to MDFP
		SWAP - MDFP to DMI	Swap from MDFP to DMI
COMPANY	16,16,C,0	Company With Liability CANFOR	Consider Forest Dreducts Ltd
		DMI	Canadian Forest Products Ltd. Daishowa-Marubeni International Ltd.
		MDFP	Manning Diversified Forest Products Ltd.
BLK_SRC	25,25,C,0	Block Source	
		ANDY BLOCK UPDATE GREENLINK BLOCK UPDA	Block updated by MDFP
MDFP_STRATA	8,8,C,0	Strata Assignment	
		AVI	Strata to be based on AVI call
		CD CD-2000	Conifer dominated Mixedwood Conifer dominated Mixedwood
		D	Deciduous
		D-2000	Deciduous
		DC DC-2000	Deciduous dominated Mixedwood Deciduous dominated Mixedwood
		PI	Lodgepole Pine leading Conifer
		Sw	White Spruce leading Conifer
TREATMENT	3,3,C,0	Treatment Applied CC	Clearcut
		PL	Planned Block
		PT	Understory Protection
HWY_MGT	4,5,B,0	Indicates highway management zone	
		1	Not within Highway Management zone
		100	Within Highway management zone
	12,12,C,0		
FIRE_YEAR	4,4,B,0	Year of fire occurrence 0	No Fire
		2002	Notific
		2003	
TRAPLINE	4,10,B,0	2004 Fur Management areas	
	4,10,0,0	0	No trapline
		1233	
		1236	
		1246 1258	
		1347	
		1397	
		1510 1514	
		1539	
		1601	
		1603 1655	
		1731	
		1755	
		1971	

May 31, 2007			Landbase N	Netdown
WSHED_ID	4,3,B,0	Watershed number	2031 2049 2147 2187 2208 2250 2269 2284 2303 2325 2357 2362 2364 2442 2478 2490 2596 2712 2758 2808 2809	Not within an identified watershed
LANDUSE	8,8,C,0	Type of landuse deletion	1 10 11 12 13 14 15 16 17 18 19 2 3 4 5 6 7 8 9	Not within an identified watershed
			EZE MLL PIPE PNT ROAD WELL	Easements Misc. Land Leases Pipelines Protective notation Roads Wellsites
PNT	12,12,C,0	PNT Number	PNT020194 PNT930344 PNT950022	NIVMA Plot Understory Protection Research Site Spruce Budworm Research Site
IN_LAKES_B	3,3,1,0	Buffered Lakes	1 100	Not within lakes buffer Within lakes buffer
MAJRIV_TYPE	20,20,C,0	River type	OXBOW-PER RIV-MAJ	Oxbow lakes Major rivers
IN_MAJRIV_B	3,3,I,0	Buffered rivers	0 1 100	Not within major river buffer Not within major river buffer Within major river buffer
IN_STREAM_B	3,3,I,0	Buffered streams	0 1 100	Not within stream buffer Not within stream buffer Within stream buffer
ISOLATED_HA	4,9,F,2	Area of original isolated polygon	100	
ID FORESTKEY POLY_NUM OLDID SDBID TRM	10,10,I,0 10,10,I,0 10,10,I,0 4,4,I,0 10,10,I,0 6,6,I,0	Unique AVI Polygon AVI Polygon Number Township/Range/Meridia	an	
COMPART	2,5,B,0	Working Circle number	0	Working Circle # 1
			1	Working Circle # 1



		2 3 4 5	Working Circle # 2 Working Circle # 3 Working Circle # 4 Working Circle # 5
NSR_CODE	2,5,B,0	6 Natural subregion codes	Working Circle # 6
NGK_CODE	2,3,0,0		
		12	Lower Foothills
		2	Wetland Mixedwood
		9	Dry Mixedwood
NSR_NAME	30,30,C,0	Natural subregion names	
		Dry Mixedwood Lower Foothills Wetland Mixedwood	
WILD_MGT	50,30,C,0	Wildlife management	
		9999 Caribou SpecialAccess Ungulate	Caribou management zone Special access management zone Ungulate management zone
REG_G_DOM	4,10,B,0	Breeding Region G	
		0	Not within Breeding Region G
	440 0 0	100	Within Breeding Region G
REG_J_DOM	4,10,B,0	Breeding Region J 0	Not within Breeding Region J
		100	Within Breeding Region J
CBU_2005	16,16,C	Alternative Patch Management Zone	Within Dreeding Region o
020_2000	10,10,0	Caribou 2005	Alternative Patch Management Zone
FMU	8,8,C,0	FMU number	
		P6	P6 FMU
		P9	P9 FMU
MSP1	2,2,C,0	Modified Species 1 Code	—
		AW	Trembling Aspen
		BW LT	White Birch Larch
		PB	Balsam Poplar
		PL	Lodgepole Pine
		SB	Black Spruce
		SW	White Spruce
MSPPER1	4,10,B,0	Modified Species 1	
MSP2	2,2,C,0	Modified Species 2 Code	
		AW BW	Trembling Aspen White Birch
		LT	Larch
		PB	Balsam Poplar
		PL	Lodgepole Pine
		SB	Black Spruce
		SW	White Spruce
MSPPER2	4,10,B,0	Modified Species 2	
MSP3	2,2,C,0	Modified Species 3 Code AW	Trombling Aspen
		BW	Trembling Aspen White Birch
		Lt	Larch
		PB	Balsam Poplar
		PL	Lodgepole Pine
		SB	Black Spruce
MODEDO	4 40 5 0	SW	White Spruce
MSPPER3 MSP4	4,10,B,0 2,2,C,0	Modified Species 3 Modified Species 4 Code	
	2,2,0,0	AW	Trembling Aspen
		BW	White Birch
		LT	Larch
		PB	Balsam Poplar
		PL	Lodgepole Pine
		SB SW	Black Spruce
MSPPER4	4,10,B,0	Modified Species 4	White Spruce
MSP5	2,2,C,0	Modified Species 5 Code	
	, , _ , _	AW	Trembling Aspen
		BW	White Birch
		LT	Larch
		PB	Balsam Poplar
		PL SB	Lodgepole Pine
		SB SW	Black Spruce White Spruce
MSPPER5	4,10,B,0	Modified Species 5	Wille Oplace
MHEIGHT	4,10,B,0	Modified Height (m)	
MDENSITY	1,1,C,0	Modified Density Code	
		A	6 - 30% crown closure

Landbase Netdown May 31, 2007 в 31 - 50% crown closure С 51 - 70% crown closure 71 - 100% crown closure D MTPR 1,1,C,0 Modified Timber **Productivity Rating** F Fair G Good М Multi Storey U Unproductive MORIGIN 4,10,B,0 Modified Year of Origin Modified US - Species 1 MUSP1 2,2,C,0 Code Trembling Aspen White Birch AW ВW LT PB Larch Balsam Poplar PL Lodgepole Pine SB Black Spruce SW White Spruce MUSPPER1 Modified US - Species 1 4,10,B,0 Percent MUSP2 2,2,C,0 Modified US - Species 2 Code Trembling Aspen White Birch AW BW LT Larch PΒ Balsam Poplar ΡL Lodgepole Pine SB Black Spruce SW White Spruce MUSPPER2 4,10,B,0 Modified US - Species 2 Percent Modified US - Species 3 MUSP3 2,2,C,0 Code AW Trembling Aspen BW White Birch LT Larch PΒ Balsam Poplar Lodgepole Pine ΡL SB Black Spruce SW White Spruce Modified US - Species 3 MUSPPER3 4.10.B.0 Percent Modified US - Species 4 MUSP4 2,2,C,0 Code Trembling Aspen AW BW White Birch Larch LT PB Balsam Poplar Lodgepole Pine Black Spruce PL SB SW White Spruce MUSPPER4 Modified US - Species 4 4,10,B,0 Percent MUSP5 2,2,C,0 Modified US - Species 5 Code Trembling Aspen White Birch AW ВW LT PB Larch Balsam Poplar Lodgepole Pine PI SB Black Spruce SW White Spruce Modified US - Species 5 MUSPPER5 4,10,B,0 Percent MUHEIGHT 4,10,B,0 Modified US - Height (m) MUDENSITY Modified US - Density 1,1,C,0 А 6 - 30% crown closure в 31 - 50% crown closure 51 - 70% crown closure С D 71 - 100% crown closure MUTPR 1,1,C,0 Modified US - Timber

Productivity Rating



MUORIGIN CONIFER DECID UCONIFER UDECID STORY_USED	4,10,B,0 16,16,F,4 16,16,F,4 16,16,F,4 16,16,F,4 16,16,F,4 8,18,F,4	Modified US - Year of Total Conifer Percent Total Deciduous Percent US - Total Conifer Percent US - Total Deciduous Story used for defining	0	Non-Forested or A-density deletion
			1 2 3	Layer 1 only Layer 2 becomes defining layer Layer 1 is used with Layer 2 understory
STR_GRP	8,8,C,0	Strata Group	C CD/U D D/U D/U DC/U	Conifer Conifer Mixedwood Conifer Mixedwood with Understory Deciduous Deciduous with Understory Deciduous Mixedwood
USTR_GRP	8,8,C,0	US - Strata Group	C CD D/U DC	Deciduous Mixedwood with Understory Conifer Conifer Mixedwood Deciduous Deciduous with Understory Deciduous Mixedwood
LEADSP	2,2,C,0	Leading conifer species	FB LT PL SB SW	Balsam Fir Larch Lodgepole Pine Black Spruce
D_SUBJ	9,9,C,0	Subjective deletions	ADEN LARCH SBLEAD WETLAND	White Spruce A Density stands Larch stands Sb leading and TPR < G Wetland areas
D_TPR	1,1,C,0	Timber Productivity	F U	Decid TPR = U or F Unproductive stands
D_BUF	8,8,C,0	Water Buffer deletions	RIVBK SWAN WBUF	River Breaks Swan Lake Buffers Water Buffers
D_STATUS	8,8,C,0	Patented land deletions	PATENT PSP	Protected areas SRD PSP Buffers
D_BURN	8,8,C,0	Recent Burn deletions	BURN	Recent Burns
D_ACCESS	8,8,C,0	Road and Pipeline	PIPE ROAD	Pipelines Roads
D_SEISMIC	8,8,C,0	Seismic deletions	SEISMIC	Seismic Lines
D_NONFOR	8,8,C,0	Non-Forested deletions	ANTHRO NNF NNV WATER	Anthropogenic Non-Vegetated Non-Forested Naturally Non-Vegetated Water Body
D_ISO	8,8,C,0	Isolated stand deletions	ISO	Isolated stands
F_MGT	8,8,C,0	Special Management	HWY NMZ PSP TBM TLG	Highway Management Zone Notekewin Habitat Zone MDFP PSP plots Twisted Bog Moss Zone Twin Lake Lodge Management Zone
F_WILD	8,8,C,0	Wildlife Management	CBU UNG WSA	Caribou Zone Ungulate Zone Wildlife Special Access Zone
F_DEL1	8,8,C,0	Summary of deletions without Seismic	ADEN	A Density stands
			ANTHRO BURN F ISO LARCH NNF	Anthropogenic Non-Vegetated Recent Burns Decid TPR = U or F Isolated stands Larch stands Non-Forested

May 31, 2007			Landbase N	Netdown
			NNV	Naturally Non-Vegetated
			NONE	Not a Deletion
			PATENT	Protected areas
			PIPE	Pipelines
			PSP	SRD PSP Buffers
			RIVBK ROAD	River Breaks Roads
			SBLEAD	Sb leading and TPR < G
			SWAN	Swan Lake Buffers
			U	Unproductive stands
			WATER	Water Body
			WBUF WETLAND	Water Buffers Wetland areas
F_DEL	8,8,C,0	Summary of deletions	WEILAND	Welland aleas
	0,0,0,0	including Seismic		
		0	ADEN	A Density stands
			ANTHRO	Anthropogenic Non-Vegetated
			BURN	Recent Burns
			F	Decid TPR = U or F
			ISO LARCH	Isolated stands Larch stands
			NNF	Non-Forested
			NNV	Naturally Non-Vegetated
			NONE	Not a Deletion
			PATENT	Protected areas
			PIPE	Pipelines
			PSP	SRD PSP Buffers
			RIVBK	River Breaks
			ROAD SBLEAD	Roads Sb leading and TPR < G
			SEISMIC	Seismic Lines
			SWAN	Swan Lake Buffers
			U	Unproductive stands
			WATER	Water Body
			WBUF	Water Buffers
EVC	0000	Madaling Spacing Strate	WETLAND	Wetland areas
F_YC	8,8,C,0	Modeling Species Strata	CD	Conifer Mixedwood
			CDU	Conifer Mixedwood with Understory
			D	Deciduous
			DC	Deciduous Mixedwood
			DCU	Deciduous Mixedwood with Understory
				Deciduous with Understory
			NONE PL	No strata assigned Lodgepole Pine Leading Conifer
			SB	Black Spruce Leading Conifer
			SW	White Spruce Leading Conifer
			XCC	Historical Cutblock without a strata
F_DEN	8,8,C,0	Modeling Density		
			В	B density Stands
			CD	C and D density stands
LANDBASE	8,8,C,0	Landbase	NONE	No density assigned
LANDDAGL	0,0,0,0	Landbase	CONIF	Coniferous Landbase
			DECID	Deciduous Landbase
			NONE	No Landbase assigned
F_AGE	2,5,B,0	Stand Age in Years		
F_AGECLASS	8,8,C,0	Stand Age classes		
			101-140	
			1-20 140+	
			21-40	
			41-60	
			61-100	
			NONE	No age class assigned
AREA_HA	14,14,N,6	Area in Hectares		
IN_CUT_B	4,5,B,0	Inside cutlines	4	Not within a saismic buffor
			1 100	Not within a seismic buffer Within a seismic buffer
POLY_NUM	10,10,I,0	AVI Polygon Number	100	
MOIST_REG	1,1,C,0	Moisture Regime		
	, , - , -	- 5	а	Aquatic
			d	Dry
			m	Mesic
DENSITY	1,1,C,0	Density Code	W	Wet
DENOTIT	1,1,0,0	Density Code	А	6 - 30% crown closure
			В	31 - 50% crown closure

- -



Landbase Netdown

			C D	51 - 70% crown closure 71 - 100% crown closure
HEIGHT	4,10,B,0	Height (m)		
SP1	2,2,C,0	Species 1 Code	Aw	Trembling Aspen
			Bw	White Birch
			Lt	Larch
			P Pb	Undifferentiated Pine Balsam Poplar
			Pj	Jack Pine
			Pl Sb	Lodgepole Pine Black Spruce
			Sw	White Spruce
SP1_PER	4,10,B,0	Species 1 Percent		
SP2	2,2,C,0	Species 2 Code	Aw	Trembling Aspen
			Bw	White Birch
			Lt	Larch
			P Pb	Undifferentiated Pine Balsam Poplar
			Pj	Jack Pine
			PI	Lodgepole Pine
			Sb Sw	Black Spruce White Spruce
SP2_PER	4,10,B,0	Species 2 Percent		
SP3	2,2,C,0	Species 3 Code	Aw	Trombling Aspon
			Bw	Trembling Aspen White Birch
			Lt	Larch
			P Pb	Undifferentiated Pine Balsam Poplar
			Pj	Jack Pine
			PÍ	Lodgepole Pine
			Sb Sw	Black Spruce White Spruce
SP3_PER	4,10,B,0	Species 3 Percent	011	White Oprude
SP4	2,2,C,0	Species 4 Code		T
			Aw Bw	Trembling Aspen White Birch
			Lt	Larch
			P	Undifferentiated Pine
			Pb Pj	Balsam Poplar Jack Pine
			PÍ	Lodgepole Pine
			Sb Sw	Black Spruce
SP4 PER	4,10,B,0	Species 4 Percent	SW	White Spruce
SP5	2,2,C,0	Species 5 Code		
SP5_PER STRUC	4,10,B,0 1,1,C,0	Species 5 Percent Structure Code		
31100	1,1,0,0		С	51 - 70% crown closure
			Н	Horizontal
STRUC_VAL	4,10,B,0	Structure Percent	М	Multi Storey
ORIGIN	4,10,B,0	Year of Origin		
TPR	1,1,C,0	Timber Productivity	F	Fair
			G	Good
			М	Multi Storey
INITIALS	2,2,C,0	Interpreter Initials	U	Unproductive
NFL	2,2,0,0 2,2,C,0	Non Forest Land Code		
			BR	Bryophyte
			HF HG	Herbaceous Forb Herbaceous Grassland
			SC	Shrub - Closed
	2200	Netwolk Net Freedon Co. 1	SO	Shrub - Open
NAT_NON	3,3,C,0	Naturally NonForest Code	NMC	Cutbank
			NMS	Sand
			NWF	Flooded
			NWI NWL	lce Lakes
			NWR	Rivers
ANTH_VEG	3,3,C,0	Anthropogenic Vegetated Code		
			CA	Annual Crops
			CIP	Transmission/Pipelines

CIP Transmission/Pipelines

May 31, 2007

Landbase Netdown

49333

ANTH_NON	3,3,C,0	Anthropogenic Non	CIW CP CPR
		Vegetated Code	AIF AIG AIH
MOD1	2,2,C,0	Modifier 1 Code	BU CC CL SN ST TH
MOD1_EXT MOD1_YR MOD2	4,10,B,0 4,10,B,0 2,2,C,0	Modifier 1 Extent Modifier 1 Year Modifier 2 Code	SC SN
MOD2_EXT MOD2_YR DATA	4,10,B,0 4,10,B,0 1,1,C,0	Modifier 2 Extent Modifier 2 Year Data Reference	ST A F
DATA_YR UMOIST_REG	4,10,B,0 1,1,C,0	Data Reference Year US - Moisture Regime	F I V d
UDENSITY	1,1,C,0	US - Density	u m w A B
UHEIGHT USP1	4,10,B,0 2,2,C,0	US - Height (m) US - Species 1 Code	C D
USP1_PER	4,10,B,0	US - Species 1 Percent	Aw Bw Lt Pb Pj Pl Sb Sw
USP2	2,2,C,0	US - Species 2 Code	Aw Bw P Pb Pj Pl Sb
USP2_PER USP3	4,10,B,0 2,2,C,0	US - Species 2 Percent US - Species 3 Code	Sw Aw Bw Lt Pb Pj Pl
USP3_PER USP4	4,10,B,0 2,2,C,0	US - Species 3 Percent US - Species 4 Code	Sb Sw Aw Bw Lt Pb

CIW	Geophysical Features Seeded
CP	Perennial Crops
CPR	Rough Pasture
AIF	Farmsteads
AIG	Gravel Pits
AIH	Permanent Right-of-Way
BU	Burn
CC	Clearcut
CL	Clearing
SN	Snag
ST	Scattered Timber
TH	Thinning
SC	Shrub - Closed
SN	Snag
ST	Scattered Timber
A	6 - 30% crown closure
F	Fair
I	Interpreted TPR
V	Volume Plot
d	Dry
m	Mesic
w	Wet
A	6 - 30% crown closure
B	31 - 50% crown closure
C	51 - 70% crown closure
D	71 - 100% crown closure
Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
Aw	Trembling Aspen
Bw	White Birch
Lt	Larch
Pb	Undifferentiated Pine
Pb	Balsam Poplar
Pj	Jack Pine
Pl	Lodgepole Pine
Sb	Black Spruce
Sw	White Spruce
Aw	Trembling Aspen
Bw	White Birch
Lt	Larch
P	Undifferentiated Pine
Pb	Balsam Poplar



Pj

Jack Pine

			Pj	Jack Pine
			PI	Lodgepole Pine
			Sb	Black Spruce
	4 4 9 5 9		Sw	White Spruce
USP4_PER	4,10,B,0	US - Species 4 Percent		
USP5	2,2,C,0	US - Species 5 Code		
USP5_PER	4,10,B,0	US - Species 5 Percent		
USTRUC	1,1,C,0	US - Structure Code		11.2
			н	Horizontal
USTRUC_VAL	4,10,B,0	US - Structure Percent		
UORIGIN	4,10,B,0	US - Year of Origin		
UTPR	1,1,C,0	US - Timber Productivity		
		Rating		
			F	Fair
			G	Good
			Μ	Multi Storey
			U	Unproductive
UINITIALS	2,2,C,0	US - Interpreter Initials		
UNFL	2,2,C,0	US - NonForest Land		
			BR	Bryophyte
			HF	Herbaceous Forb
			HG	Herbaceous Grassland
			SC	Shrub - Closed
			SO	Shrub - Open
UNFL_PER	4,10,B,0	US - NonForest Percent		·
		Cover		
UNAT_NON	3,3,C,0	US - Naturally NonForest		
	-,-,-,-		NWF	Flooded
			NWL	Lakes
			NWR	Rivers
UANTH_VEG	3,3,C,0	US - Anthropogenic		
0,4411_720	0,0,0,0	Vegetated		
		Vogetated	CIP	Transmission/Pipelines
			CP	Perennial Crops
			CPR	Rough Pasture
UANTH_NON	3,3,C,0	US - Anthropogenic Non	UFK	Rough Fasture
UANTH_NON	3,3,0,0			
		Vegetated		F
			AIF	Farmsteads
	0000	LIQ Mariffian 4 Orde	AIG	Gravel Pits
UMOD1	2,2,C,0	US - Modifier 1 Code		
			CL	Clearing
			SC	Shrub - Closed
			ST	Scattered Timber
UMOD1_EXT	4,10,B,0	US - Modifier 1 Extent		
UMOD1_YR	4,10,B,0	US - Modifier 1 Year		
UMOD2	2,2,C,0	US - Modifier 2 Code		
UMOD2_EXT	4,10,B,0	US - Modifier 2 Extent		
UMOD2_YR	4,10,B,0	US - Modifier 2 Year		
UDATA	1,1,C,0	US - Data Reference	_	
			F	Fair
			I	Interpreted TPR
UDATA_YR	4,10,B,0	US - Data Reference Year		
TRM	6,6,1,0	Township/Range/Meridian		
FORESTKEY	10,10,I,0	Unique AVI Polygon		



Appendix VII Data Dictionary for TSA Landbase and Associated Files

ADIE

ADD_PREBLOCKS

Dataset Information

Description:	List of AVI polygons to either preblock or defer.
Data Source:	Created in Oracle
Date Generated:	April 2007
Processing:	Oracle Code
Data Format:	Oracle Table
Software Used:	Oracle
Projection:	N/A
Datum:	N/A
Units:	N/A
Data Precision:	N/A
Tolerance:	N/A
Scale of Capture:	N/A

Column Name	Type W.D	Column	Item Value	Item Description
FORESTKEY	10,10,I,0	Unique AVI polyg	jon	
PREBLOCK	6,6,C,0	Flag to preblock	or defer	
			n	Polygons to defer
			У	Polygons to add
DEFER	6,6,I,0	Years to defer		
			0	no deferral
			10	defer 10 years
			20	defer 20 years
COMMENTX	25,25,C,0	Comment field		
			Added March20 2007	
			added March20 2007	
			added_Dec 2006	
			Blowdown	
			cut2006	
			delay10	
			delay20	
			edited_Dec 2006	
			Field	
		mar	ual deferrals Jan 2007	
			Original	
			- P9	
ORIGORDER	6,6,C,0	Original order fro	m MDFP	
		spreadsheet		



OPUNITS

Dataset Information

Description:	Operating Units
Data Source:	Created in Oracle
Date Generated:	April 2007
Processing:	Manually selected from P16_LB4_TSA coverage
Data Format:	Oracle Table
Software Used:	Oracle
Projection:	N/A
Datum:	N/A
Units:	N/A
Data Precision:	N/A
Tolerance:	N/A
Scale of Capture:	N/A

Column Name	Type W.D	Column	Item Value	Item Description
UKEY4_TSA	10,10,I,0	Unique Key - after Arc elimination		
OPUNIT	5,5,1,0	Operating unit - within ea compartment	ach 0	
			1 2	
			3	
			4 5	

A DIE

P16_LB4_TSA_NET_AREA

Dataset Information

Description:	Contains polygon areas reduced by seismic area
Data Source:	Created in Oracle
Date Generated:	April 2007
Processing:	Oracle Code
Data Format:	Oracle Table
Software Used:	Oracle
Projection:	N/A
Datum:	N/A
Units:	N/A
Data Precision:	N/A
Tolerance:	N/A
Scale of Capture:	N/A

Column Name	Type W.D	Column	Item Value	Item Description
UKEY4_TSA	10,10,1,0	Unique Key - After Arc elimination		
AREAHA_PW	10,10,I,0	Area reduced for Seismic	c	



P16_LB4_TSA_OUTPUT

Dataset Information

Description:	Oracle table with all modeling fields
Data Source:	Created in Oracle
Date Generated:	April 2007
Processing:	Oracle Code
Data Format:	Oracle Table
Software Used:	Oracle
Projection:	N/A
Datum:	N/A
Units:	N/A
Data Precision:	N/A
Tolerance:	N/A
Scale of Capture:	N/A

<i>Column Name</i> UKEY4_TSA	<i>Type W.D</i> 10,10,1,0	Unique Key - after arc	Item Value	Item Description
THEME1	8,8,C,0	elimination Theme1 - Landbase		
			CONIF DECID NONE	Coniferous Landbase Deciduous Landbase Non-Forested
THEME2	8,8,C,0	Theme2 - FMU	NONE P6	Outside FMA (slivers) FMU P6
THEME3	8,8,C,0	Theme3 - Species Strata	P9	FMU P9
TT LIVIL 3	0,0,0,0	menies - Species Strata	CD CDU DC DCU DUSW DUSW DUSW GRASS NONE NV PL SB SW WATER	Conifer leading Mixedwood Conifer leading Mixedwood with understor Deciduous Deciduous leading Mixedwood Deciduous leading Mixedwood Deciduous with White Spruce understory Deciduous with other conifer understory Grass No strata defined Non-vegetated Lodgepole Pine Black Spruce White Spruce Water bodies
THEME4	8,8,C,0	Theme4 - Density	XCC	Harvested blocks without strata
TTEME+	0,0,0,0	menet - Density	A_X B_A B_B CD B_X CD_A CD_B CD_CD CD_Z NONE	A overstory - no understory B overstory with A understory B overstory with B understory B overstory with CD understory B overstory - no understory CD overstory with A understory CD overstory with B understory CD overstory with CD understory CD overstory - no understory No Density defined
THEME5	8,8,C,0	Theme5 - Active Landba	se	
THEME6	8,8,C,0	Theme6 - Harvest State	NONOP OPER	Passive landbase Active landbase
	0,0,0,0		CC CCPRE NONE PLANNED PREPLAN PROT	Clearcut historical blocks Pre-91 historical blocks No harvest action Blocks planned for years 2007+ Blocks planned for years 2005 and 2006 Understory Protection
THEME7	8,8,C,0	Theme7 - Breeding	BOTH G	Within both G2 and J breeding regions Only within G2 breeding region

	_
	_
T II N. 4 J	
Landbase Netdown	-

THEME8 AGE_PERIOD DUHGTCLASS	8,8,C,0 12,12,l,0 8,8,C,0	NONE Theme8 - Blank Extra Age in 5 year periods Understory height class in DU strata	
DELTA1	6610	1_1 12_1 16- NONE	5 12-15 m tall understory 16+ m tall understory
DELTAT	6,6,1,0	Proposed year of treatment	 3 2 3
TREATMENT1	12,12,C,0	Proposed treatment CCDUCON CCDUDEC CLEARCUT NONE	Clearcut conifer priority Clearcut deciduous priority Clearcut action
AREAHA_PW ACCESS_C1	10,10,I,0 20,20,C,0	Area reduced for Seismic Access Control Version 1 C0_CBOUT C1_CBIN C1_CBIN C1_CBOUT C1 C2_CBIN C2_CBOUT C3_CBOUT C3_CBOUT C4_CBIN C4_CBOUT C4_CBOUT C5_CBOUT C5_CBOUT C6 C7 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	
ACCESS_C2	20,20,C,0	PRE_C5_CBOUT Access Control Version 2 C0_CBOUT C1_CBOUT C1_CBOUT C1_CBOUT C2_CBIN C2_CBOUT C3_CBUT C3_CBUT C4_CBIN C4_CBUT C4_CBUT C5_CBOUT C5_CBOUT C410_C1_CBIN LV410_C1_CBIN LV410_C1_CBIN LV410_C1_CBIN LV410_C2_CBIN LV410_C2_CBIN LV410_C3_CBIN LV410_C3_CBUT LV410_C4_CBIN LV410_C4_CBUT LV410_C5_CBOUT LV410_C5_CBOUT LV410_C5_CBOUT	



LV410_C8 LV410_C9 LV420_C1_CBIN LV420_C1_CBOUT LV420_C10 LV420_C11 LV420_C2_CBIN LV420_C2_CBOUT LV420_C3_CBIN LV420_C3_CBOUT LV420_C4_CBIN LV420_C4_CBOUT LV420_C5_CBOUT LV420_C6 LV420_C7 LV420_C8 PRE_C1_CBOUT PRE_C11 PRE_C2_CBOUT PRE_C3_CBIN PRE_C3_CBOUT PRE_C4_CBIN PRE_C4_CBOUT PRE_C5_CBOUT 20,20,C,0 Access Control Version 3 CONIF_C1_CBOUT CONIF_C10 CONIF_C11 CONIF_C2_CBIN CONIF_C2_CBOUT CONIF_C3_CBIN CONIF_C3_CBOUT CONIF_C4_CBIN CONIF_C4_CBOUT CONIF_C5_CBOUT CONIF_C6 CONIF_C7 CONIF_C8 CONIF_C9 DECID_C1_CBOUT DECID_C10 DECID_C11 DECID_C2_CBIN DECID_C2_CBOUT DECID_C2_CBOUT DECID_C3_CBIN DECID_C3_CBOUT DECID_C4_CBIN DECID_C4_CBOUT DECID_C5_CBOUT DECID_C6 DECID_C7 DECID_C8 DECID_C9 LV410_C0_CBOUT LV410_C1_CBIN LV410_C1_CBOUT LV410_C10 LV410_C11 LV410_C2_CBIN LV410_C2_CBOUT LV410_C3_CBIN LV410 C3 CBOUT LV410_C4_CBIN LV410_C4_CBOUT LV410_C5_CBOUT LV410_C6 LV410_C7 LV410_C8 LV410_C9 LV420_C1_CBIN LV420_C1_CBOUT LV420_C10 LV420_C11 LV420_C2_CBIN LV420_C2_CBOUT LV420_C3_CBIN LV420_C3_CBOUT LV420_C4_CBIN

ACCESS_C3

LV420_C4_CBOUT

_ E (

LV420_C5_CBOUT LV420_C6 LV420_C7 LV420_C8 NONE_CO_CBOUT NONE_C1_CBOUT NONE_C10 NONE_C11 NONE_C2_CBIN NONE_C2_CBOUT NONE_C3_CBIN NONE_C3_CBOUT NONE_C4_CBIN NONE_C4_CBOUT NONE_C5_CBOUT NONE_C6 NONE_C7 NONE_C8 NONE_C9 PRE_C1_CBOUT PRE_C11 PRE_C2_CBOUT PRE_C3_CBIN PRE_C3_CBOUT PRE_C4_CBIN PRE_C4_CBOUT PRE_C5_CBOUT ACCESS_C4 20,20,C,0 Access Control Version 4 CONIF_C1_CBOUT CONIF_C10 CONIF_C11 CONIF_C2_CBIN CONIF_C2_CBOUT CONIF_C3_CBIN CONIF_C3_CBOUT CONIF_C4_CBIN CONIF_C4_CBOUT CONIF_C5_CBOUT CONIF_C6 CONIF_C7 CONIF C8 CONIF C9 DECID_C1_CBIN DECID_C1_CBOUT DECID_C10 DECID_C11 DECID_C2_CBIN DECID_C2_CBOUT DECID_C3_CBIN DECID_C3_CBOUT DECID_C4_CBIN DECID_C4_CBOUT DECID_C5_CBOUT DECID_C6 DECID_C7 DECID_C8 DECID_C9 LV410_C0_CBOUT LV410_C1_CBOUT LV410_C1_CBOUT LV410_C10 LV410_C11 LV410_C2_CBIN LV410_C2_CBOUT LV410_C3_CBIN LV410_C3_CBOUT LV410_C4_CBIN LV410_C4_CBOUT LV410_C5_CBOUT LV410_C6 LV410_C7 LV410_C8 LV410_C9 LV420_C1_CBOUT LV420_C10 LV420_C11 LV420_C2_CBIN



		LV420_C2_CBOUT LV420_C3_CBIN LV420_C3_CBIN LV420_C4_CBIN LV420_C4_CBUT LV420_C5_CBOUT LV420_C5_CBOUT LV420_C6 LV420_C7 LV420_C7 LV420_C8 NONE_C0_CBOUT NONE_C1CBOUT NONE_C1CBOUT NONE_C2_CBIN NONE_C2_CBIN NONE_C3_CBIN NONE_C3_CBIN NONE_C4_CBIN NONE_C5_CBOUT NONE_C5_CBOUT NONE_C6 NONE_C7 NONE_C6 NONE_C7 NONE_C8 NONE_C7 NONE_C8 NONE_C7 NONE_C8 NONE_C7 NONE_C8 NONE_C1 PRE_C1_CBOUT PRE_C1_CBIN PRE_C3_CBIN PRE_C3_CBIN PRE_C4_CBIN PRE_C4_CBIN PRE_C4_CBIN PRE_C4_CBIN PRE_C4_CBIN
ACCESS_C5 ROADS_C1	20,20,C,0 20,20,I,0	Access Control Version 5 Operating unit control version 1 1000000
		2000000 3000000
ROADS_C2	20,20,1,0	Operating unit control version 2
		1010000 1010099 1010100 1010200 1010200 1010300 1010400 1010500 1020099 1020100 1020199 1020100 1020300 1020300 1020309 1020400 1020500 1030099 1030100 1030199 1030200 1030299 1030200 1030299 1030200 1030400 1030400 1030400 1030500 1040009 1040100 1040199 1040100 1040399 1040200

			1050200 1050300 1050400 1070000 1080000 1070000 1100000 1100000 2010000 2010000 2010000 2010200 2010300 2010400 2010500 2020009 202000 2020099 2020100 2020399 2020400 2020399 2020400 2020399 203009 2030099 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030299 2030200 2040000 2040000 2040000 2040300 2040300 2050100 2050200 2050200 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050300 2050400 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 205000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 2050000 20500000000	
ROADS_C3	20,20,C,0	Operating unit control	3000000	
ROADS_C4	20,20,C,0	version 3 Operating unit control version 4		
ADDPREBLOCK	4,4,C,0	Preblock flag	n y	Polygons to defer Polygons to add
DEFER	4,4,I,0	Years to Defer	0 10 20	no deferral defer 10 years defer 20 years
PRE_COMMENT	20,20,C,0	Add	ed March20 2007 ed March20 2007 added_Dec 2006 Blowdown cut2006 delay10 delay20 edited_Dec 2006 Field	



		manual deferrals Jan 200 Origin	nal	
		F	P9	
OPUNIT	5,5,I,0	Operating Units		
			0	
			1	
			2	
			3	
			4	
			5	
MTPR	4,4,C,0	TPR		
			F	Fair
			G	Good
			M	Medium
			U	Unproductive
			0	Onproductive

<u>4935</u>

P16_LB4_TSA

Dataset Information

Description:	Timber supply Landbase with modeling attributes attached.
Data Source:	Multiple coverages
Date Generated:	April 2007
Processing:	Adding P16_LB4_TSA_OUTPUT to P16_LB4_TSA coverage
Data Format:	Arc/Info coverage
Software Used:	ESRI ArcGIS
Projection:	UTM Zone 11
Datum:	NAD 83
Units:	metres
Data Precision:	Double
Tolerance:	Fuzzy @ 0.001
Scale of Capture:	N/A

Data Dictional y				
Column Name	Type W.D	Column	Item Value	Item Description
AREA	8,18,F,5	Area (sq.m.)		-
PERIMETER	8,18,F,5	Perimeter (m.)		
P16_LB4_TSA#	4,5,B,0	Internal ArcInfo No.		
P16_LB4_TSA-ID	4,5,B,0	ArcInfo User Id		
UKEY4_TMP	10,10,1,0	Unique Key - initial k	key to	
—		assign attributes	-	
UKEY4_TSA	10,10,1,0	Unique Key - after a	rc	
—		elimination		
UKEY4	10,10,1,0	Unique Key - after u	nion	
	,,.	with seismic		
SNAME	254,254,C,0	Scientific name		
0.0.012	20 1,20 1,0,0		hagnum contortum	Within twisted bog moss management zone
BOG	254,254,C,0	Twisted bog area		
200	20 1,20 1,0,0	i motou bog alou	twisted bog moss	Within twisted bog moss management zone
IN_GOVT_PSP_B	2,5,B,0	Inside PSP buffer		
	,,_,_		0	Not within a SRD PSP buffer
			100	Within a SRD PSP buffer
IN_MDFP_PSP_B	3,3,1,0	MDFP PSP Buffers		
	- / - / / -		0	Not within MDFP PSP buffer
			100	Within MDFP PSP buffer
RIVER BREAK	5,5,C,0	River Breaks		
-			NMZ	Notekewin Management zone
			P6	P6 river breaks
			P9	P9 river breaks
IN_SWAN_B	4,5,B,0	Swan lake buffers		
			1	Not within a swan lake buffer
			100	Within a swan lake buffer
IN_TWINLK_B	4,5,B,0	Twin Lake buffer		
			1	Not within Twin lake deletion buffer
			100	Within Twin lake deletion buffer
IN_TWINLGE_B	4,5,B,0	Twin Lake Lodge bu		
			1	Not within Twin Lodge deletion
			100	Within Twin Lodge deletion
REC	40,40,C,0	Recreation areas	- · · ·	
	0000	Description area to a	Twin Lakes	Twin lakes recreation area
TYPE	9,9,C,0	Recreation area type	PRA	Description I Descretion Area
	0.01.0	Defines inside block		Provincial Recreation Area
INSIDE_BLK	3,3,1,0	Dennes Inside block	0	Not inside a block
			1	Not inside a block
			100	Within a block
OPENING	15,15,C,0	Opening Number	100	
BLK ID	25,25,C,0	Block Id field		
HARV_YR	4,4,1,0	Harvest Year		
	4,4,1,0	That vest Teal	0	Not harvested
			1940	
			1966	
			1967	
			1968	
			1969	



		1970	
		1971	
		1972	
		1973 1975	
		1975	
		1978	
		1983	
		1984	
		1987	
		1992	
		1993	
		1997	
		1998	
		1999	
		2000	
		2001	
		2002 2003	
		2003	
HARV_NOTE	25,25,C,0	Note	
	,,_,_,	Andy provided new op	
		CONTINGENCY	Contingency block
		DMI - PLANNED	DMI planned block
		DMI - Understory Pro	
		DMI BLOCK	DMI existing block
		MDFP BLOCK	MDFP existing block
		Planned	Planned block
		SWAP - DMI to MDFP	Swap from DMI to MDFP
COMPANY	16,16,C,0	SWAP - MDFP to DMI Company With Liability	Swap from MDFP to DMI
	10,10,0,0	CANFOR	Canadian Forest Products Ltd.
		DMI	Daishowa-Marubeni International Ltd.
		MDFP	Manning Diversified Forest Products Ltd.
BLK_SRC	25,25,C,0	Block Source	
		ANDY BLOCK UPDATE	Block updated by MDFP
		GREENLINK BLOCK UPDA	
MDFP_STRATA	8,8,C,0	Strata Assignment	
		AVI CD	Strata to be based on AVI call
		CD-2000	Conifer dominated Mixedwood Conifer dominated Mixedwood
		D-2000	Deciduous
		D-2000	Deciduous
		DC	Deciduous dominated Mixedwood
		DC-2000	Deciduous dominated Mixedwood
		PI	Lodgepole Pine leading Conifer
		Sw	White Spruce leading Conifer
TREATMENT	3,3,C,0	Treatment Applied	
		CC	Clearcut
		PL PT	Planned Block
HWY_MGT	4,5,B,0	Indicates highway	Understory Protection
	4,3,0,0	management zone	
		1	Not within Highway Management zone
		100	Within Highway management zone
FIRENUMBER	12,12,C,0		6 , 6
FIRE_YEAR	4,4,B,0	Year of fire occurrence	
		0	No Fire
		2002	
		2003	
TRAPLINE	4 10 P 0	2004 Fur Management areas	
IKAFLINE	4,10,B,0	Pur Management areas	No trapline
		1233	No trapilite
		1236	
		1246	
		1258	
		1347	
		1397	
		1510	
		1514	
		1539	
		1601 1603	
		1603 1655	
		1731	
		1755	
		1971	

May 31, 2007			Landbase N	Netdown
WSHED_ID	4,3,B,0	Watershed number	2031 2049 2147 2187 2208 2250 2269 2284 2303 2325 2357 2362 2364 2442 2478 2490 2596 2712 2758 2808 2809	Not within an identified watershed
LANDUSE	8,8,C,0	Type of landuse deletion	1 10 11 12 13 14 15 16 17 18 19 2 3 4 5 6 7 8 9	Not within an identified watershed
			EZE MLL PIPE PNT ROAD WELL	Easements Misc. Land Leases Pipelines Protective notation Roads Wellsites
PNT	12,12,C,0	PNT Number	PNT020194 PNT930344 PNT950022	NIVMA Plot Understory Protection Research Site Spruce Budworm Research Site
IN_LAKES_B	3,3,1,0	Buffered Lakes	1 100	Not within lakes buffer Within lakes buffer
MAJRIV_TYPE	20,20,C,0	River type	OXBOW-PER RIV-MAJ	Oxbow lakes Major rivers
IN_MAJRIV_B	3,3,I,0	Buffered rivers	0 1 100	Not within major river buffer Not within major river buffer Within major river buffer
IN_STREAM_B	3,3,I,0	Buffered streams	0 1 100	Not within stream buffer Not within stream buffer Within stream buffer
ISOLATED_HA	4,9,F,2	Area of original isolated polygon	100	
ID FORESTKEY POLY_NUM OLDID SDBID TRM	10,10,I,0 10,10,I,0 10,10,I,0 4,4,I,0 10,10,I,0 6,6,I,0	Unique AVI Polygon AVI Polygon Number Township/Range/Meridia	an	
COMPART	2,5,B,0	Working Circle number	0	Working Circle # 1
			1	Working Circle # 1



			2 3 4 5	Working Circle # 2 Working Circle # 3 Working Circle # 4 Working Circle # 5
NSR_CODE	2,5,B,0	Natural subragion codes	6	Working Circle # 6
NSK_CODE	2,3,8,0	Natural subregion codes	0 12 2 9	Lower Foothills Wetland Mixedwood Dry Mixedwood
NSR_NAME	30,30,C,0	Lc	y Mixedwood ower Foothills d Mixedwood	Dry Mixedwood
WILD_MGT	50,30,C,0	Wellah Wildlife management	9999	
			Caribou pecialAccess Ungulate	Caribou management zone Special access management zone Ungulate management zone
REG_G_DOM	4,10,B,0	Breeding Region G	0 100	Not within Breeding Region G Within Breeding Region G
REG_J_DOM	4,10,B,0	Breeding Region J	0	Not within Breeding Region J
CBU_2005	16,16,C	Caribou 2005 Zone	100 Caribou_2005	Within Breeding Region J Caribou Zone 2005
FMU	8,8,C,0	FMU number	P6	P6 FMU
MSP1	2,2,C,0	Modified Species 1 Code	P9	P9 FMU
	2,2,0,0		AW BW LT	Trembling Aspen White Birch Larch
			PB PL SB SW	Balsam Poplar Lodgepole Pine Black Spruce White Spruce
MSPPER1 MSP2	4,10,B,0	Modified Species 1 Percen		White Oproce
	2,2,C,0	Modified Species 2 Code	AW BW LT PB PL SB SW	Trembling Aspen White Birch Larch Balsam Poplar Lodgepole Pine Black Spruce White Spruce
MSPPER2 MSP3	4,10,B,0 2,2,C,0	Modified Species 2 Percen Modified Species 3 Code	it	
			AW BW Lt PB PL SB SW	Trembling Aspen White Birch Larch Balsam Poplar Lodgepole Pine Black Spruce
MSPPER3	4,10,B,0	Modified Species 3 Percen		White Spruce
MSP4	2,2,C,0	Modified Species 4 Code	AW BW LT PB PL SB SW	Trembling Aspen White Birch Larch Balsam Poplar Lodgepole Pine Black Spruce White Spruce
MSPPER4 MSP5	4,10,B,0 2,2,C,0	Modified Species 4 Percen Modified Species 5 Code	AW BW LT PB PL SB SW	Trembling Aspen White Birch Larch Balsam Poplar Lodgepole Pine Black Spruce White Spruce
MSPPER5 MHEIGHT MDENSITY	4,10,B,0 4,10,B,0 1,1,C,0	Modified Species 5 Percen Modified Height (m) Modified Density Code		6 - 30% crown closure

May 31, 2007			Landbase N	Netdown 4
			В	31 - 50% crown closure
			С	51 - 70% crown closure
MTPR	1,1,C,0	Modified Timber	D	71 - 100% crown closure
		Productivity Rating	F	Fair
			F	Fair
			G G	Good Good
			M	Multi Storey
			M U	Medium Unproductive
MORIGIN	4,10,B,0	Modified Year of Origin	U	Unproductive
MUSP1	2,2,C,0	Modified US - Species 1		
			AW BW	Trembling Aspen White Birch
			LT	Larch
			PB PL	Balsam Poplar Lodgepole Pine
			SB	Black Spruce
MUSPPER1	4,10,B,0	Modified US - Species 1	SW	White Spruce
		Percent		
MUSP2	2,2,C,0	Modified US - Species 2	AW	Trembling Aspen
			BW	White Birch
			LT PB	Larch Balsam Poplar
			PL	Lodgepole Pine
			SB SW	Black Spruce White Spruce
MUSPPER2	4,10,B,0	Modified US - Species 2		
MUSP3	2,2,C,0	Percent Modified US - Species 3		
	,,_,_		AW	Trembling Aspen
			BW LT	White Birch Larch
			PB PL	Balsam Poplar
			SB	Lodgepole Pine Black Spruce
MUSPPER3	4,10,B,0	Modified US - Species 3	SW	White Spruce
		Percent		
MUSP4	2,2,C,0	Modified US - Species 4	AW	Trembling Aspen
			BW	White Birch
			LT PB	Larch Balsam Poplar
			PL	Lodgepole Pine
			SB SW	Black Spruce White Spruce
MUSPPER4	4,10,B,0	Modified US - Species 4 Percent		
MUSP5	2,2,C,0	Modified US - Species 5		
			AW BW	Trembling Aspen White Birch
			LT	Larch
			PB PL	Balsam Poplar Lodgepole Pine
			SB	Black Spruce
MUSPPER5	4,10,B,0	Modified US - Species 5	SW	White Spruce
		Percent		
MUHEIGHT MUDENSITY	4,10,B,0 1,1,C,0	Modified US - Height (m) Modified US - Density Code		
	.,.,_,_		A	6 - 30% crown closure
			B C	31 - 50% crown closure 51 - 70% crown closure
MUTPR	1,1,C,0	Modified US - Timber	D	71 - 100% crown closure
	1,1,0,0	Productivity Rating		
			F G	Fair Good
			M	Multi Storey
MUORIGIN	4,10,B,0	Modified US - Year of	U	Unproductive
CONIFER	16,16,F,4	Total Conifer Percent		



Landbase Netdown

DECID UCONIFER UDECID STORY_USED	16,16,F,4 16,16,F,4 16,16,F,4 8,18,F,4	Total Deciduous Percent US - Total Conifer Percent US - Total Deciduous Story used for defining		
STORT_03LD	0,10,1,4	Story used for defining	0	Non-Forested or A-density deletion
			1	Layer 1 only
			2	Layer 2 becomes defining layer
STD CDD	0000	Strata Croup	3	Layer 1 is used with Layer 2 understory
STR_GRP	8,8,C,0	Strata Group	C CD CD/U D	Conifer Conifer Mixedwood Conifer Mixedwood with Understory Deciduous
			D/U DC DC/U	Deciduous with Understory Deciduous Mixedwood Deciduous Mixedwood with Understory
USTR_GRP	8,8,C,0	US - Strata Group	-	- <i>u</i>
			C CD	Conifer Conifer Mixedwood
			D	Deciduous
			D/U	Deciduous with Understory
			DC	Deciduous Mixedwood
LEADSP	2,2,C,0	Leading conifer species	50	Deleger Fig
			FB LT	Balsam Fir Larch
			PL	Lodgepole Pine
			SB	Black Spruce
		Outrie ative deletions	SW	White Spruce
D_SUBJ	9,9,C,0	Subjective deletions	ADEN	A Density stands
			LARCH	Larch stands
			SBLEAD	Sb leading and TPR < G
D TPR	1100		WETLAND	Wetland areas
D_IPK	1,1,C,0	Timber Productivity	F	Decid TPR = U or F
			Ŭ	Unproductive stands
D_BUF	8,8,C,0	Water Buffer deletions		
			RIVBK SWAN	River Breaks Swan Lake Buffers
			WBUF	Water Buffers
D_STATUS	8,8,C,0	Patented land deletions		
			PATENT PSP	Protected areas SRD PSP Buffers
D_BURN	8,8,C,0	Recent Burn deletions	101	
			BURN	Recent Burns
D_ACCESS	8,8,C,0	Road and Pipeline deletions	PIPE	Pipelines
			ROAD	Roads
D_SEISMIC	8,8,C,0	Seismic deletions		
D_NONFOR	8,8,C,0	Non-Forested deletions	SEISMIC	Seismic Lines
D_NONI OK	0,0,0,0	Non-i orested deletions	ANTHRO	Anthropogenic Non-Vegetated
			NNF	Non-Forested
				Naturally Non-Vegetated
D_ISO	8,8,C,0	Isolated stand deletions	WATER	Water Body
			ISO	Isolated stands
F_MGT	8,8,C,0	Special Management		Lister Management Zana
			HWY NMZ	Highway Management Zone Notekewin Habitat Zone
			PSP	MDFP PSP plots
			TBM	Twisted Bog Moss Zone
F_WILD	8,8,C,0	Wildlife Management	TLG	Twin Lake Lodge Management Zone
	0,0,0,0	. mane management	CBU	Caribou Zone
			UNG	Ungulate Zone
F DEL1	8800	Summary of deletions	WSA	Wildlife Special Access Zone
	8,8,C,0	without Seismic		
		-	ADEN	A Density stands
			ANTHRO	Anthropogenic Non-Vegetated
			BURN F	Recent Burns Decid TPR = U or F
			ISO	Isolated stands
			LARCH	Larch stands
			NNF NNV	Non-Forested Naturally Non-Vegetated
			NONE	Naturally Non-Vegetated Not a Deletion

May 31, 2007			Landbase N	Netdown
			PATENT PIPE PSP RIVBK ROAD SBLEAD SWAN U WATER WBUF	Protected areas Pipelines SRD PSP Buffers River Breaks Roads Sb leading and TPR < G Swan Lake Buffers Unproductive stands Water Body Water Buffers
F_DEL	8,8,C,0	Summary of deletions	WETLAND	Wetland areas
		including Seismic	ADEN ANTHRO BURN F ISO LARCH NNV NONE PATENT PIPE PSP RIVBK ROAD SELSMIC SBLEAD SEISMIC SWAN U WATER WBUF	A Density stands Anthropogenic Non-Vegetated Recent Burns Decid TPR = U or F Isolated stands Larch stands Non-Forested Naturally Non-Vegetated Not a Deletion Protected areas Pipelines SRD PSP Buffers River Breaks Roads Sb leading and TPR < G Seismic Lines Swan Lake Buffers Unproductive stands Water Buffers Wetland areas
F_YC	8,8,C,0	Modeling Species Strata		
			CD CDU DC DCU DU NONE PL SB SW XCC	Conifer Mixedwood Conifer Mixedwood with Understory Deciduous Deciduous Mixedwood Deciduous Mixedwood with Understory Deciduous with Understory No strata assigned Lodgepole Pine Leading Conifer Black Spruce Leading Conifer White Spruce Leading Conifer Historical Cutblock without a strata
F_DEN	8,8,C,0	Modeling Density	В	B density Stands
LANDBASE	8,8,C,0	Landbase	CD NONE CONIF DECID	C and D density stands No density assigned Coniferous Landbase Deciduous Landbase
F_AGE	2,5,B,0	Stand Age in Years	NONE	No Landbase assigned
F_AGECLASS	8,8,C,0	Stand Ageclasses	101-140 1-20 140+ 21-40 41-60 61-100 NONE	No ageclass assigned
AREA_HA IN_CUT_B	14,14,N,6 4,5,B,0	Area in Hectares Inside cutlines		
"_\U	7,0,0,0		1	Not within a seismic buffer
UKEY4_TSA	10,10,I,0	Unique Key - after arc	100	Within a seismic buffer
THEME1	8,8,C,0	elimination Theme1 - Landbase		
			CONIF DECID NONE	Coniferous Landbase Deciduous Landbase Non-Forested
THEME2	8,8,C,0	Theme2 - FMU	NONE P6 P9	Outside FMA (slivers) FMU P6 FMU P9
THEME3	8,8,C,0	Theme3 - Species Strata	ГЭ	1 100 1 3



			CD CDU DC DCU DUSW DUX GRASS NONE NV PL SB SW WATER XCC	Conifer leading Mixedwood Conifer leading Mixedwood with understor Deciduous Deciduous leading Mixedwood Deciduous leading Mixedwood with underst Deciduous with White Spruce understory Deciduous with other conifer understory Grass No strata defined Non-vegetated Lodgepole Pine Black Spruce White Spruce Water bodies Harvested blocks without strata
THEME4	8,8,C,0	Theme4 - Density	A_X B_A B_CD B_X CD_A CD_CD CD_Z NONE	A overstory - no understory B overstory with A understory B overstory with B understory B overstory with CD understory CD overstory - no understory CD overstory with A understory CD overstory with CD understory CD overstory with CD understory CD overstory - no understory CD overstory - no understory No Density defined
THEME5	8,8,C,0	Theme5 - Active Landbase		Passive landbase
THEME6	8,8,C,0		OPER CCPRE NONE PLANNED PROT	Active landbase Clearcut historical blocks Pre-91 historical blocks No harvest action Blocks planned for years 2007+ Blocks planned for years 2005 and 2006 Understory Protection
THEME7	8,8,C,0	Theme7 - Breeding	BOTH G J NONE	Within both G2 and J breeding regions Only within G2 breeding region Only within J breeding region Not within breeding region
THEME8 AGE_PERIOD DUHGTCLASS	8,8,C,0 12,12,I,0 8,8,C,0	Theme8 - Blank Extra Age in 5 year periods Understory height class in DU strata	NONE	Not within breeding region
			1_11 12_15 16+ NONE	1-11m tall understory 12-15 m tall understory 16+ m tall understory Not in DU strata
DELTA1	6,6,1,0	Proposed year of treatment	0 1 13 2 3	
TREATMENT1	12,12,C,0	C	5 CDUCON CDUDEC EARCUT NONE	Clearcut conifer priority Clearcut deciduous priority Clearcut action No future action defined
AREAHA_PW ACCESS_C1	10,10,I,0 20,20,C,0	C1 C2 C3 C4	D_CBOUT C1_CBIN _CBOUT C10 C11 C2_CBIN _CBOUT C3_CBIN _CBOUT C4_CBIN _CBOUT _CBOUT _C6 C7 C8	

ACCESS_C2	20,20,C,0	C9 PRE_C1_CBOUT PRE_C11 PRE_C2_CBOUT PRE_C3_CBIN PRE_C3_CBUT PRE_C4_CBIN PRE_C4_CBUT PRE_C5_CBOUT PRE_C5_CBOUT Access Control Version 2
//00200_02	20,20,0,0	C0_CBOUT C1_CBOUT C10
		C11 C2_CBIN C2_CBOUT C3_CBIN
		C3_CBOUT C4_CBIN C4_CBOUT C5_CBOUT
		C6 C7 C8
		C9 LV410_C0_CBOUT LV410_C1_CBIN
		LV410_C1_CBOUT LV410_C10 LV410_C11
		LV410_C2_CBIN LV410_C2_CBOUT
		LV410_C3_CBIN LV410_C3_CBOUT LV410_C4_CBIN
		LV410_C4_CBOUT LV410_C5_CBOUT LV410_C6
		LV410_C7 LV410_C8 LV410_C9
		LV420_C1_CBIN LV420_C1_CBOUT LV420_C10
		LV420_C11 LV420_C2_CBIN LV420_C2_CBOUT
		LV420_C3_CBIN LV420_C3_CBOUT LV420_C4_CBIN
		LV420_C4_CBOUT LV420_C5_CBOUT LV420_C6
		LV420_C7 LV420_C8 PRE_C1_CBOUT
		PRE_C11 PRE_C2_CBOUT PRE_C3_CBIN
		PRE_C3_CBOUT PRE_C4_CBIN PRE_C4_CBOUT
ACCESS_C3	20,20,C,0	PRE_C5_CBOUT Access Control Version 3 CONIF_C1_CBOUT
		CONIF_C10 CONIF_C11 CONIF_C2_CBIN
		CONIF_C2_CBOUT CONIF_C3_CBIN CONIF_C3_CBOUT
		CONIF_C4_CBIN CONIF_C4_CBOUT CONIF_C5_CBOUT
		CONIF_C6 CONIF_C7 CONIF_C8 CONIF_C9

DECID_C1_CBOUT

May 31, 2007

DECID_C10 DECID C11 DECID_C2_CBIN DECID_C2_CBOUT DECID_C3_CBIN DECID_C3_CBOUT DECID_C4_CBIN DECID_C4_CBOUT DECID_C5_CBOUT DECID_C6 DECID_C7 DECID_C8 DECID_C9 LV410_C0_CBOUT LV410_C1_CBIN LV410_C1_CBOUT LV410_C10 LV410_C11 LV410_C2_CBIN LV410 C2 CBOUT LV410_C3_CBIN LV410_C3_CBOUT LV410_C4_CBIN LV410_C4_CBOUT LV410_C5_CBOUT LV410_C6 LV410_C7 LV410_C8 LV410_C9 LV420_C1_CBIN LV420_C1_CBOUT LV420_C10 LV420_C11 LV420_C2_CBIN LV420_C2_CBOUT LV420_C3_CBIN LV420_C3_CBOUT LV420_C4_CBIN LV420 C4 CBOUT LV420_C5_CBOUT LV420_C6 LV420_C7 LV420 C8 NONE_C0_CBOUT NONE_C1_CBOUT NONE_C10 NONE_C11 NONE_C2_CBIN NONE_C2_CBOUT NONE_C3_CBIN NONE_C3_CBOUT NONE_C4_CBIN NONE_C4_CBOUT NONE_C5_CBOUT NONE_C6 NONE_C7 NONE_C8 NONE_C9 PRE_C1_CBOUT PRE_C11 PRE C2 CBOUT PRE_C3_CBIN PRE_C3_CBOUT PRE_C4_CBIN PRE_C4_CBOUT PRE_C5_CBOUT ACCESS C4 20.20.C.0 Access Control Version 4 CONIF_C1_CBOUT CONIF_C10 CONIF_C11 CONIF_C2_CBIN CONIF_C2_CBOUT CONIF_C3_CBIN CONIF_C3_CBOUT CONIF_C4_CBIN CONIF_C4_CBOUT CONIF_C5_CBOUT

		CONIF_C6 CONIF_C7 CONIF_C8 CONIF_C9 DECID_C1_CBIN DECID_C1_CBUT DECID_C10 DECID_C11 DECID_C11
		DECID_C2_CBOUT DECID_C3_CBIN DECID_C3_CBUT DECID_C4_CBIN DECID_C4_CBUT DECID_C5_CBOUT DECID_C6 DECID_C7 DECID_C7 DECID_C8
		DECID_C9 LV410_C0_CBOUT LV410_C1_CBIN LV410_C1_CBUT LV410_C10 LV410_C11 LV410_C2_CBIN LV410_C2_CBOUT
		LV410_C3_CBIN LV410_C3_CBOUT LV410_C4_CBIN LV410_C4_CBOUT LV410_C5_CBOUT LV410_C6 LV410_C7 LV410_C8 LV410_C9
		LV420_C1_CBOUT LV420_C10 LV420_C11 LV420_C2_CBIN LV420_C3_CBIN LV420_C3_CBUT LV420_C4_CBIN LV420_C4_CBUT
		LV420_C5_CBOUT LV420_C6 LV420_C7 LV420_C8 NONE_C0_CBOUT NONE_C1_CBOUT NONE_C10 NONE_C11
		NONE_C2_CBIN NONE_C2_CBOUT NONE_C3_CBIN NONE_C3_CBOUT NONE_C4_CBIN NONE_C4_CBIN NONE_C5_CBOUT NONE_C6 NONE_C6 NONE_C7
		NONE_C8 NONE_C9 PRE_C1_CBOUT PRE_C11 PRE_C2_CBOUT PRE_C3_CBIN PRE_C4_CBIN PRE_C4_CBOUT PRE_C5_CBOUT
ACCESS_C5 ROADS_C1	20,20,C,0 20,20,I,0	Access Control Version 5 Operating unit control version 1 1000000
ROADS_C2	20,20,1,0	2000000 3000000 Operating unit control



version 2

1010000 1010099 1010100
1010100
1010199
1010200 1010300
1010400
1010500 1020000
1020099
1020100 1020199 1020200
1020200
1020300 1020399
1020393
1020500
1030000 1030099
1030100
1030199 1030200
1030299
1030399 1030400
1030499
1030500
1040000 1040099
1040100 1040199
1040199 1040200
1040300
1040399 1040400
1040499
1050000
1050100 1050200
1050300
1050400 1050500
1060000
1070000 1080000
1090000
1100000
1110000 2010000
2010099
2010100 2010200
2010300
2010400 2010500
2020000
2020099
2020100 2020199
2020200
2020300
2020399 2020400
2020500 2030000
2030099
2030100
2030199 2030200
2030299
2030399 2030499
2030500
2040000 2040099
2040100
2040199

			2040200 2040300 2040399 2040400 2050100 2050100 2050200 2050300 2050500 2050500 2060000 2070000 2080000 2090000 2100000 2110000 3000000	
ROADS_C3	20,20,C,0	Operating unit control version 3	3000000	
ROADS_C4	20,20,C,0	Operating unit control version 4		
ADDPREBLOCK	4,4,C,0	Preblock flag		
			n	Polygons to defer Polygons to add
DEFER	4,4,I,0	Years to Defer	У	Folygons to add
			0	no deferral
			10 20	defer 10 years defer 20 years
PRE_COMMENT	20,20,C,0	added M add	farch20 2007 farch20 2007 ed_Dec 2006 Blowdown cut2006 delay10 delay20 ed_Dec 2006 Field	
	5510	On a matin m L la ita	P9	
OPUNIT	5,5,1,0	Operating Units	0 1 2 3 4 5	
MTPR	4,4,C,0	TPR		
			F F G G M M U U	Fair Fair Good Good Multi Storey Medium Unproductive Unproductive
POLY_NUM	10,10,1,0	AVI Polygon Number		
MOIST_REG	1,1,C,0	Moisture Regime	а	Aquatic
			d	Dry
			m w	Mesic Wet
DENSITY	1,1,C,0	Density Code	vv	Wet
HEIGHT	4,10,B,0	Height (m)	A B C D	6 - 30% crown closure 31 - 50% crown closure 51 - 70% crown closure 71 - 100% crown closure
SP1	2,2,C,0	Species 1 Code	Aw Bw Lt Pb Pj Pl	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine



Landbase Netdown

SP1_PER SP2	4,10,B,0 2,2,C,0	Species 1 Percent Species 2 Code	Sb Sw	Black Spruce White Spruce
012	2,2,0,0	000002 0000	Aw Bw Lt Pb Pj Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
SP2_PER SP3	4,10,B,0 2,2,C,0	Species 2 Percent Species 3 Code		·
373	2,2,0,0	Species 3 Code	Aw Bw Lt Pb Pj Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
SP3_PER	4,10,B,0	Species 3 Percent	0	
SP4	2,2,C,0	Species 4 Code	Aw Bw Pb Pj Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
SP4_PER SP5	4,10,B,0 2,2,C,0	Species 4 Percent Species 5 Code	-	
SP5 SP5_PER STRUC	4,10,B,0 1,1,C,0	Species 5 Code Species 5 Percent Structure Code	С	51 - 70% crown closure
			H M	Horizontal
STRUC_VAL ORIGIN TPR	4,10,B,0 4,10,B,0 1,1,C,0	Structure Percent Year of Origin Timber Productivity Rating		Multi Storey
			F G M U	Fair Good Multi Storey Unproductive
INITIALS NFL	2,2,C,0 2,2,C,0	Interpreter Initials Non Forest Land Code		
			BR HF HG SC SO	Bryophyte Herbaceous Forb Herbaceous Grassland Shrub - Closed Shrub - Open
NAT_NON	3,3,C,0	Naturally NonForest Code	NMC	Cutbank
			NMS NWF NWI NWL NWR	Sand Flooded Ice Lakes Rivers
ANTH_VEG	3,3,C,0	Anthropogenic Vegetated Code		
			CA CIP CIW CP CPR	Annual Crops Transmission/Pipelines Geophysical Features Seeded Perennial Crops Rough Pasture
ANTH_NON	3,3,C,0	Anthropogenic Non Vegetated Code	AIF	Farmsteads
			AIG AIH	Gravel Pits Permanent Right-of-Way
MOD1	2,2,C,0	Modifier 1 Code		
			BU CC	Burn Clearcut

May 31, 2007

Landbase Netdown

MOD4 EXT	4 40 0 0	Modifier 4 Extent	ST TH
MOD1_EXT MOD1_YR MOD2	4,10,B,0 4,10,B,0 2,2,C,0	Modifier 1 Extent Modifier 1 Year Modifier 2 Code	SC
MOD2_EXT	4,10,B,0	Modifier 2 Extent	SN ST
MOD2_YR DATA	4,10,B,0 1,1,C,0	Modifier 2 Year Data Reference	A
			F I V
DATA_YR UMOIST_REG	4,10,B,0 1,1,C,0	Data Reference Year US - Moisture Regime	ď
UDENSITY	1,1,C,0	US - Density	m w
		·	A B C
UHEIGHT USP1	4,10,B,0 2,2,C,0	US - Height (m) US - Species 1 Code	D
			Aw Bw Lt
			P Pb Pj Pl
USP1_PER	4,10,B,0	US - Species 1 Percent	Sb Sw
USP2	2,2,C,0	US - Species 2 Code	Aw Bw
			Lt P Pb
			Pj Pl Sb
USP2_PER USP3	4,10,B,0 2,2,C,0	US - Species 2 Percent US - Species 3 Code	Sw
			Aw Bw Lt P
			Pb Pj Pl
USP3_PER	4,10,B,0	US - Species 3 Percent	Sb Sw
USP4	2,2,Ċ,0	US - Species 4 Code	Aw Bw
			Lt P Pb
			Pj Pl Sb Sw
USP4_PER USP5 USP5_PER	4,10,B,0 2,2,C,0 4,10,B,0	US - Species 4 Percent US - Species 5 Code US - Species 5 Percent	SW
USTRUC_VAL	4,10,B,0 1,1,C,0 4,10,B,0	US - Structure Percent	н
UORIGIN	4,10,B,0 4,10,B,0	US - Year of Origin	

CL	Clearing
SN	Snag
ST	Scattered Timber
TH	Thinning
SC	Shrub - Closed
SN	Snag
ST	Scattered Timber
A	6 - 30% crown closure
F	Fair
I	Interpreted TPR
V	Volume Plot
d	Dry
m	Mesic
w	Wet
A	6 - 30% crown closure
B	31 - 50% crown closure
C	51 - 70% crown closure
D	71 - 100% crown closure
Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
Aw Bw Lt Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce
Aw	Trembling Aspen
Bw	White Birch
Lt	Larch
Pb	Undifferentiated Pine
Pb	Balsam Poplar
Pj	Jack Pine
PI	Lodgepole Pine
Sb	Black Spruce
Sw	White Spruce
Aw Bw P Pb Pj Pl Sb Sw	Trembling Aspen White Birch Larch Undifferentiated Pine Balsam Poplar Jack Pine Lodgepole Pine Black Spruce White Spruce

Horizontal



Landbase Netdown

UTPR	1,1,C,0	US - Timber Productivity Rating	
UINITIALS	2,2,C,0	US - Interpreter Initials	F G M U
UNFL	2,2,C,0	US - NonForest Land	BR HF HG SC SO
UNFL_PER UNAT_NON	4,10,B,0 3,3,C,0	US - NonForest Percent US - Naturally NonForest	NWF NWL NWR
UANTH_VEG	3,3,C,0	US - Anthropogenic	CIP CP CPR
UANTH_NON	3,3,C,0	US - Anthropogenic Non Vegetated	AIF
UMOD1	2,2,C,0	US - Modifier 1 Code	CL SC ST
UMOD1_EXT UMOD1_YR UMOD2 UMOD2_EXT UMOD2_YR UDATA	4,10,B,0 4,10,B,0 2,2,C,0 4,10,B,0 4,10,B,0 1,1,C,0	US - Modifier 1 Extent US - Modifier 1 Year US - Modifier 2 Code US - Modifier 2 Extent US - Modifier 2 Year US - Data Reference	F
UDATA_YR TRM FORESTKEY	4,10,B,0 6,6,I,0 10,10,I,0	US - Data Reference Year Township/Range/Meridian Unique AVI Polygon	I

F	Fair
G	Good
M	Multi Storey
U	Unproductive
BR	Bryophyte
HF	Herbaceous Forb
HG	Herbaceous Grassland
SC	Shrub - Closed
SO	Shrub - Open
NF	Flooded
NL	Lakes
VR	Rivers
CIP	Transmission/Pipelines
CP	Perennial Crops
PR	Rough Pasture
AIF	Farmsteads Gravel Pits
CL	Clearing
SC	Shrub - Closed
ST	Scattered Timber

F Fair I Interpreted TPR



Appendix VIII DVD of Landbase Netdown Documentation

Appendix I contains a DVD with all digital files relevant to this analysis. It includes:

Main Data:

- Full landbase spatial coverage in Arc Info coverage format.
- Full TSA landbase spatial coverage in Arc Info coverage format.

Supporting Data:

- All coverages listed in Table 2-1.
- All coverages used in multi-union process as listed in Table 2-2.
- All Data files used in creation of TSA landbase as listed in section 6.1.
- Programming Code.

Landbase Netdown Documentation:

• .pdf: digital PDF copy of report.

Limited copies of this DVD were produced:

- One copy provided to SRD;
- One copy provided to Manning Diversified;
- One copy provided to DMI; and
- One copy retained by The Forestry Corp.



The Forestry Corp. Project Number: P445 For additional information, please contact: The Forestry Corp. 101-11710 Kingsway Avenue Edmonton, AB T5G 0X5 (780) 452-5878 www.forcorp.com

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