SPECIES GROUP AGE CLASS DISTRIBUTION WITHIN NET PRODUCTIVE AREA

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SPECIES GROUP

STAND AGE (YEARS)

	CONIFER	MIXEDWOOD CONIFER LEADING	MIXEDWOOD DECIDUOUS LEADING	DECIDUOUS
1-40				
41-70				
71-100				
101+				

NET LANDBASE DELETIONS

PLANIMETRIC LEGEND

LEGAL
- Township/Range
- FMA Boundary

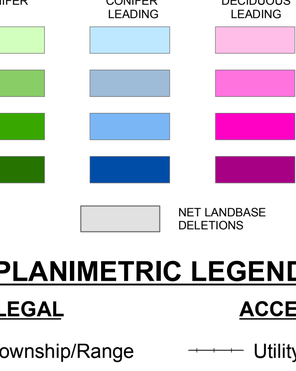
ACCESS
- Utility/Railway
- Cutline

ROADS
- Paved Primary
- Gravel Primary
- Gravel Secondary
- Improved
- Truck Trail

WATER
- Perennial
- Indefinite
- Waterbody

FIRES
- Mitsue
- Chisholm

PROVINCIAL INDEX



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Rge 3 | Rge 2 | Rge 1

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TABLE 6-2: LANDBASE SUMMARY

Landbase Categories	Area (ha)
Gross Area [4]	**58,535**
Natural Areas:	
Saulteaux Natural Area	266
Hondo Natural Area	439
Sub-Total	*705*
Non-Forested / Unproductive Area:	
Natural	6,106
Anthropogenic	782
Sub-Total	*6,888*
Gross Forested Area	**50,942**
Watercourse Buffers:	
Lake Buffer	474
River / Perennial Stream Buffer 60 m	1,271
Intermittent Stream Buffer 30 m	45
Sub-Total	*1,790*
Net Forested Area	**49,152**
Merchantability Test Deletions:	
TPR = "U"	20,575
The following tests were applied to conifer landbase only:	
Larch 1st or 2nd species	8,713
"A" density, height ≤ 6 m and origin < 1930	0
"A" density, height > 6 m but ≤ 12 m , and origin < 1930	213
"A" density, height > 6 m but ≤ 12 m , and 1st species = "SB"	21
"B" density, height ≤ 6 m and origin < 1930	0
"B" density, height > 6 m but ≤ 12 m , and origin < 1900	6
"C" density, height ≤ 6 m and origin < 1930	0
"C" density, height > 6 m but ≤ 12 m , and origin < 1900	152
"D" density, height ≤ 6 m and origin < 1930	0
"D" density, height > 6 m but ≤ 12 m , and origin < 1900	58
1st species = "SB" and TPR = "F"	544
1st species = "SB" and TPR = "M"	706
Sub-Total	*30,988*
1998 Net Productive Area [5]	**18,164**
Updates to the Net Productive Area	
Anthropogenic Non-Forested Updates Within 1998 Net Productive Area	267
Landuse Dispositions Within 1998 Net Productive Area	5
Burn Area Within 1998 Net Productive Area[6] (Potentially Productive)	12,202
Wet Moisture Regime Within 1998 Net Productive Area	607
Cutblock Updates Which Reclaim 1998 Deletion Area Back To Net Productive Area[7]	(16)
Sub-Total	*13,065*
2004 Net Productive Area	**5,099**

[4] The gross area used in this analysis is different then the area identified in the PLFD's base features. This discrepancy is a result of a difference in the eastern boundary and has no impact on the amount of operable landbase.

[5] Where the "OLDNET" field is equal to " ".

[6] Includes both the Mitsue and Chisholm fires.

[7] Includes 12ha of 1998 Merchantability Deletions, 3ha of 1998 Buffer Deletions, and 1ha of 1998 Naturally Non-Forested Deletions.

FIGURE 6-3: NET LANDBASE AGE CLASS DISTRIBUTION BY OVERSTOREY SPECIES GROUP

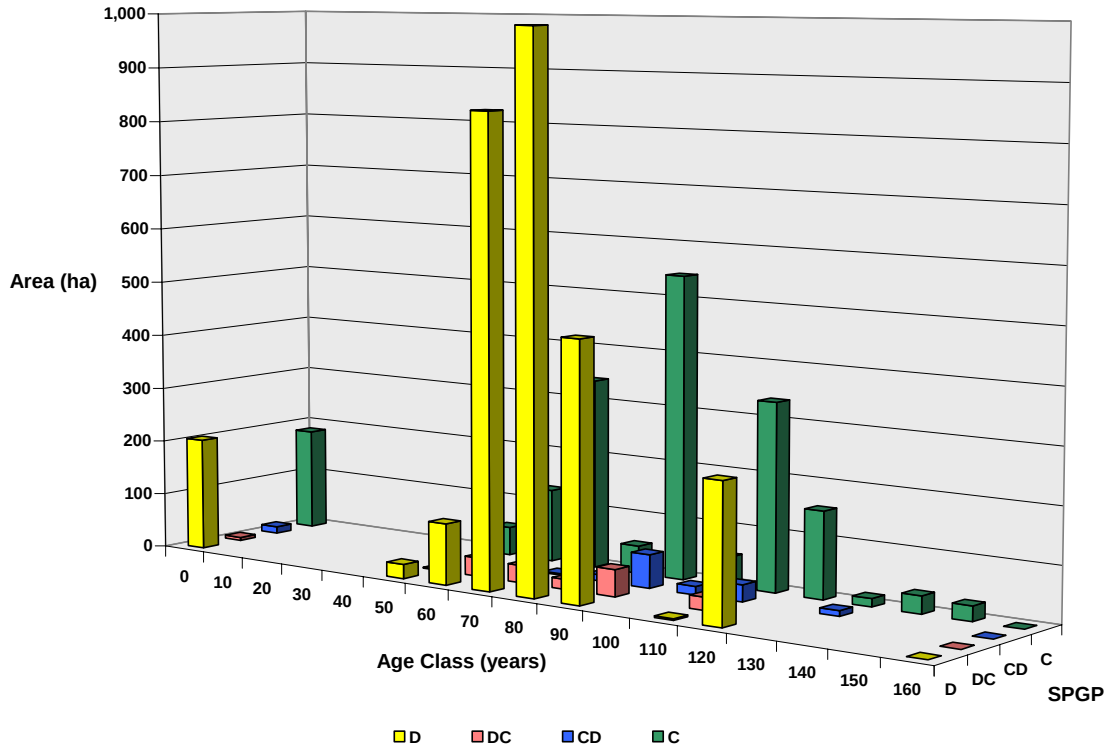

TABLE 6-3: NET LANDBASE SPECIES GROUP AGE CLASS AREA

Age Class	Species Group				Total Area (ha)
	C (ha)	CD (ha)	DC (ha)	D (ha)	
0 – 9 YEARS	186	12	6	204	408
10 – 19 YEARS					
20 – 29 YEARS					
30 – 39 YEARS					
40 – 49 YEARS					
50 – 59 YEARS	51		1	26	78
60 – 69 YEARS	131		33	110	274
70 – 79 YEARS	341	2	31	841	1,215
80 – 89 YEARS	50	11	18	989	1,067
90 – 99 YEARS	544	60	48	460	1,112
100 – 109 YEARS	52	15			67
110 – 119 YEARS	336	30	23	3	392
120 – 129 YEARS	155			247	402
130 – 139 YEARS	15	10			25
140 – 149 YEARS	32				32
150 – 159 YEARS	27				27
160 – 169 YEARS					
Total Area (ha)	1,919	140	160	2,879	5,099

6.5 Net Landbase Database Structure & Description

Number of data records: 21,112 (14 Townships)

TABLE 6-4: NET LANDBASE DATABASE STRUCTURE & DESCRIPTION

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
1.	AREA[8]	Numeric	20	5	Area in square metres
2.	AREA_HA	Numeric	14	6	Area in hectares
3.	PERIMETE	Numeric	20	5	Perimeter in metres
4.	GIS40601	Numeric	20	0	Unique link to spatial coverage
5.	CARIBOU_	Numeric	20	0	Caribou range
6.	UNGULATE	Numeric	20	0	Ungulate winter range
7.	LPDM_	Numeric	20	0	Dwarf Mistletoe areas
8.	ANTH_UPD	Numeric	2	0	Anthropogenic non-forested update
9.	DISP	Numeric	2	0	Dispositions deleted from the landbase identified as follows: ♦ 1 – Landuse disposition.
10.	LAK	Character	3		100 metre lake buffer identifier
11.	RIV	Character	3		60 metre river buffer identifier
12.	S60	Character	3		60 metre large permanent stream buffer identifier
13.	S30	Character	3		30 metre stream buffer identifier
14.	CHISHOLM	Numeric	20	0	Chisholm fire identifier
15.	CHSM_CLS	Character	6		Burn class identified as follows: ♦ B – Burn; ♦ I – Island.
16.	MITSUEID	Numeric	11	0	Mitsue fire identifier
17.	MITS_CLS	Numeric	11	0	Burn class identified as follows: ♦ 1 – Burn; ♦ 3 – Island.
18.	BLK_NUM	Numeric	11	0	Cutblock number
19.	BLK_AREA	Numeric	20	8	Cutblock area in hectares
20.	TRAPLINE	Numeric	11	0	Trapper boundaries
21.	MER	Numeric	2	0	Meridian
22.	TWP	Numeric	3	0	Township
23.	RGE	Numeric	2	0	Range
24.	PID	Numeric	4	0	Polygon identifier (stand number)
AVI Overstorey Attributes					
25.	MOIST	Character	1		Moisture regime identified as follows: ♦ A – Aquatic; ♦ D – Dry;

[8] Some of the larger polygons in the net landbase were segmented into smaller portions to allow for a spatially explicit even flow of timber volume in the Preferred Forest Management Strategy.

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
					♦ M – Mesic; ♦ W – Wet.
26.	CROWN	Character	1		Crown closure identified as follows: ♦ A – 6 – 30% crown closure; ♦ B – 31 – 50% crown closure; ♦ C – 51 – 70% crown closure; ♦ D – 71 – 100% crown closure.
27.	HEIGHT	Numeric	2	0	Height (m)
28.	SP1	Character	2		Species 1 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
29.	PER1	Numeric	2	0	Species 1 percent
30.	SP2	Character	2		Species 2 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
31.	PER2	Numeric	2	0	Species 2 percent
32.	SP3	Character	2		Species 3 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
33.	PER3	Numeric	2	0	Species 3 percent
34.	SP4	Character	2		Species 4 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
35.	PER4	Numeric	2	0	Species 4 percent
36.	SP5	Character	2		Species 5 identified as follows: ♦ AW – Trembling Aspen; ♦ SB – Black Spruce.
37.	PER5	Numeric	2	0	Species 5 percent

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
38.	STR	Character	1		Stand structure identified as follows: ♦ M – Multi-layer canopy.
39.	STRVAL	Numeric	2	0	Stand structure value
40.	ORIGIN	Numeric	4	0	Origin
41.	TPR	Character	1		Timber Productivity Rating identified as follows: ♦ G – Good; ♦ M – Medium; ♦ F – Fair; ♦ U – Unproductive.
42.	MOD1	Character	2		Stand modifier 1 identified as follows: ♦ BU – Burn; ♦ CC – Clearcut; ♦ DI – Disease; ♦ SN – Snags; ♦ ST – Scattered timber.
43.	EXT1	Character	1		Extent of modification 1
44.	YEAR1	Character	4		Year of modification 1
45.	MOD2	Character	2		Stand modifier 2 identified as follows: ♦ BU – Burn; ♦ SN – Snags.
46.	EXT2	Character	1		Extent of modification 2
47.	YEAR2	Character	4		Year of modification 2
48.	NAT_V	Character	2		Naturally non-forested vegetated land identified as follows: ♦ HF – Herbaceous forbs; ♦ HG – Herbaceous grassland; ♦ SC – Closed shrubs; ♦ SO – Open shrubs.
49.	NAT_CL	Numeric	2	0	Non-forested natural vegetated land shrub closure
50.	ANTH_V	Character	3		Anthropogenic vegetated land identified as follows: ♦ CIP – Pipeline; ♦ CIW – Geophysical activity (wellsite).
51.	ANTH_N	Character	3		Anthropogenic non-vegetated land identified as follows: ♦ AIG – Gravel or borrow pit; ♦ AIH – Permanent right-of-way; AII – Industrial sites.
52.	NAT_N	Character	3		Naturally non-vegetated land identified as follows: ♦ NMC – Cutbank; ♦ NMS – Sand; ♦ NWF – Flooded; ♦ NWL – Lake or pond; ♦ NWR – River.
AVI Understorey Attributes					
53.	U_MOIST	Character	1		Moisture regime identified as follows: ♦ M – Mesic;

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
					♦ W – Wet.
54.	U_CROWN	Character	1		Crown closure identified as follows: ♦ A – 6 – 30% crown closure; ♦ B – 31 – 50% crown closure; ♦ C – 51 – 70% crown closure; ♦ D – 71 – 100% crown closure.
55.	U_HEIGHT	Numeric	2	0	Height (m)
56.	U_SP1	Character	2		Species 1 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
57.	U_PER1	Numeric	2	0	Species 1 percent
58.	U_SP2	Character	2		Species 2 identified as follows: ♦ AW – Trembling Aspen; ♦ BW – White Birch; ♦ FB – Balsam Fir; ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
59.	U_PER2	Numeric	2	0	Species 2 percent

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
60.	U_SP3	Character	2		Species 3 identified as follows: ♦ AW – Trembling Aspen; ♦ BW – White Birch; ♦ FB – Balsam Fir; ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
61.	U_PER3	Numeric	2	0	Species 3 percent
62.	U_SP4	Character	2		Species 4 identified as follows: ♦ AW – Trembling Aspen; ♦ BW – White Birch; ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ P – Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
63.	U_PER4	Numeric	2	0	Species 4 percent
64.	U_SP5	Character	2		Species 5 identifier
65.	U_PER5	Numeric	2	0	Species 5 percent
66.	U_STR	Character	1		Stand structure identifier
67.	U_STRVAL	Numeric	2	0	Stand structure value
68.	U_ORIGIN	Numeric	4	0	Origin
69.	U_TPR	Character	1		Timber Productivity Rating identified as follows: ♦ G – Good; ♦ M – Medium; ♦ F – Fair; ♦ U – Unproductive.
70.	U_MOD1	Character	2		Stand modifier 1
71.	U_EXT1	Character	1		Extent of modification 1
72.	U_YEAR1	Character	4		Year of modification 1
73.	U_MOD2	Character	2		Stand modifier 2
74.	U_EXT2	Character	1		Extent of modification 2
75.	U_YEAR2	Character	4		Year of modification 2
76.	U_NAT_V	Character	2		Non-forested natural vegetated land type identified as follows: ♦ BR – Bryophytes; ♦ HG – Herbaceous grass; ♦ SC – Closed shrubs; ♦ SO – Open shrubs.
77.	U_NAT_CL	Numeric	2	0	Non-forested natural vegetated land shrub closure
78.	U_ANTH_V	Character	3		Anthropogenic vegetated land identifier
79.	U_ANTH_N	Character	3		Anthropogenic non-vegetated land identifier
80.	U_NAT_N	Character	3		Naturally non-vegetated land identifier
Calculated Fields From 1998 Landbase					
81.	SPGRP	Character	2		Overstorey species group identified as follows: ♦ C - Conifer; ♦ CD – Mixedwood – conifer dominant; ♦ DC – Mixedwood – deciduous dominant; ♦ D - Deciduous.

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
82.	USPGRP	Character	2		Understorey species group identified as follows: ♦ C - Conifer; ♦ CD – Mixedwood – conifer dominant; ♦ DC – Mixedwood – deciduous dominant; ♦ D - Deciduous.
83.	LANDBASE	Character	3		Landbase identified as follows: ♦ Con – Conifer; ♦ Dec - Deciduous.
84.	CUTBLOCK	Numeric	8	2	Cutblocks identified as follows: ♦ 1 –Cutblock.
85.	MERCH	Numeric	8	2	Merchantability test deletions identified as follows: ♦ 1 – TPR 'U'; ♦ 2 – Larch SP1; ♦ 3 – Larch SP2; ♦ 4 – Conifer, A density, height ≤ 6 m and origin <1930; ♦ 5 – Conifer, A density, height > 6 m but ≤ 12 m and origin <1930; ♦ 6 – Conifer, A density, height > 6 m but ≤ 12 m and origin <1930; ♦ 7 – Conifer, B density, height ≤ 6 m and origin <1930; ♦ 8 – Conifer, B density, height > 6 m but ≤ 12 m and origin <1900; ♦ 9 – Conifer, C density, height ≤ 6 m and origin <1930; ♦ 10 – Conifer, C density, height > 6 m but ≤ 12 m and origin <1900; ♦ 11 – Conifer, D density, height ≤ 6 m and origin <1930; ♦ 12 – Conifer, D density, height > 6 m but ≤ 12 m and origin <1900; ♦ 13 – SB leading and TPR = 'F'; ♦ 14 – SB leading and TPR = 'M'.
86.	OLDNET	Character	8		1998 Net Landbase categories identified as follows: ♦ NR1 – Saulteaux Natural Area; ♦ NR2 – Hondo Natural Area; ♦ Nonfor – Nonforested; ♦ LAK – Lake Buffer; ♦ S60 – River Buffer 60m; ♦ S30 – Stream Buffer 30 m; ♦ Merch – Merchantability Deletion.
Calculated Fields					
87.	AGE	Numeric	14	6	Stand age
88.	UAGE	Numeric	14	6	Understorey age
89.	AGECLASS	Numeric	14	6	10 year age class
90.	CUTFLAG	Numeric	2	0	Update cutblock identified as follows:

					♦ 1 - Update cutblocks.
91.	PLANCC	Numeric	2	0	Planned cutblocks identified as follows: ♦ 1 –Planned cutblock.
92.	BURN_FLG	Numeric	2	0	Burn areas identified as follows: ♦ 1 - Chisholm; ♦ 2 - Mitsue.
93.	BURNCODE	Character	2		Burn code identified as follows: ♦ B – Burn; ♦ I – Island.

Field No.	Field Name	Field Type	Field Width	No. of Decimals	Field Description
94.	CCSTATUS	Numeric	2	0	Cutblock status identified as follows: ♦ 1 – Cutblock in the net landbase; ♦ 2 – Cutblock not in the net landbase.
95.	CUT_SPGP	Character	3		Cutblock species group identified as follows: ♦ C - Conifer; ♦ CD – Mixedwood – conifer dominant; ♦ DC – Mixedwood – deciduous dominant; ♦ D - Deciduous.
96.	NEWSPGP	Character	3		Updated species group identified as follows: ♦ C - Conifer; ♦ CD – Mixedwood – conifer dominant; ♦ DC – Mixedwood – deciduous dominant; ♦ D - Deciduous.
97.	YC_STRAT	Character	4		Yield curve stratum identified as follows: ♦ D - Deciduous; ♦ MX – Mixedwood; ♦ C-P – Conifer – Pine dominant; ♦ C-SW – Conifer – Spruce dominant.
98.	YCNUM	Numeric	14	6	Yield curve number identified as follows: ♦ 1 – Conifer – Pine dominant; ♦ 2 – Conifer – Spruce dominant; ♦ 3 – Mixedwood – No conifer understorey; ♦ 4 – Deciduous – No conifer understorey; ♦ 6 – Mixedwood – 1-5m conifer understorey; ♦ 7 – Mixedwood – 6m+ conifer understorey; ♦ 8 – Deciduous – 1-5m+ conifer understorey; ♦ 9 – Deciduous – 6m+ conifer understorey.
Net Landbase Determination Field					
99.	NETDOWN[9]	Numeric	2	0	Updated 2003 Netdown items – identifies all landbase categories: ♦ 1 – Saulteaux Natural Area; ♦ 2 – Hondo Natural Area; ♦ 3 – Nonforested; ♦ 4 – Lake Buffer; ♦ 5 – River Buffer 60m; ♦ 6 – Stream Buffer 30 m;

[9] To net down the landbase, select only records where the "NETDOWN" field is equal to "0".

					♦ 7 – Merchantability Deletion; ♦ 8 –Anthropogenic Non-Forested Updates; ♦ 9 – Landuse Dispositions; ♦ 10 – Potentially Productive; ♦ 11– Wet Moisture Regime; ♦ 0 – Net Landbase.
Cutblock Update Field					
100.	NEWBLK	Numeric	2	0	New cutblock areas incorporated after net landbase submission and approval.[10] ♦ 1 – New cutblock area.

[10] Stands with a "NEWBLOCK' value of "1"are harvested areas discovered and incorporated after the net landbase submission and approval. These blocks use the pre-harvest AVI to determine yield strata and have the ages reset to 0. The boundaries of the stands with a NEWBLOCK value of 1 are to have their boundaries updated for land-use dispositions as part of the Land-Use Inventory update to be complete in 2005.