



A.

Appendix A
*Harvest Sequence
and Net Landbase
Database Structure
and Description*

DFMP

APPENDIX A HARVEST SEQUENCE AND NET LANDBASE DATABASE STRUCTURE & DESCRIPTION

The following data has been prepared and are included on the enclosed DVD:

- ◆ Tolko FMA PFMS Sequence and Landbase (Harvest_LB_Tolko.dbf) – see Table A-1 for the data structure document;
- ◆ S9 Outside of FMA PFMS Sequence and Landbase (Harvest_LB_S9OUT.dbf) – Landbase data as provided by Alberta Sustainable Resource Division.

TABLE A-1: HARVEST SEQUENCE AND NET LANDBASE DATABASE STRUCTURE & DESCRIPTION – TOLKO FMA

Number of data records: 95,685

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
1.	AREA	Numeric	20	5	Area in square metres
2.	PERIMETE	Numeric	20	5	Perimeter in metres
3.	GIS_LINK	Numeric	20	0	Unique link to spatial coverage
4.	TILE_NAM	Character	32		Name assigned to tile, made up of twp, rge and mer
5.	FMA	Numeric	2	0	Forest Management Agreement area
6.	OLD_FMU	Character	3		Old Forest Management Unit identified as follows: <ul style="list-style-type: none"> ◆ G2 – Portion of FMU S19T that previously was G2; ◆ G10 – Portion of FMU S19T that previously was G10; ◆ S3 – Portion of FMU S19T that previously was S3; ◆ S9 – Portion of FMU S19T that previously was S9.
7.	BUF30	Numeric	2	0	30 metre stream buffer identifier
8.	BUF60	Numeric	2	0	60 metre large permanent stream buffer identifier
9.	BUF60R	Numeric	2	0	60 metre river buffer identifier
10.	BUF100	Numeric	2	0	100 metre lake buffer identifier
11.	BUFTRUMP	Numeric	2	0	200 metre trumpeter swan nesting site buffer identifier
12.	BUF200	Numeric	2	0	200 metre medium recreational lake buffer identifier
13.	BUF400	Numeric	2	0	400 metre high recreational lake buffer identifier
14.	CUT_LINK	Numeric	11	0	Unique cutblock identifier
15.	BLOCKNUM	Numeric	3	0	Cutblock number
16.	ALPHA	Character	1		Cutblock suffix
17.	HARV_YR	Character	5		Year cutblock was harvested
18.	CUT_SPP	Character	5		Species group cutblock assignments (assigned by Tolko): <ul style="list-style-type: none"> ◆ C – Pure conifer; ◆ CD – Conifer dominated mixedwood; ◆ DC – Deciduous dominated mixedwood; ◆ D – Pure deciduous; ◆ PR91 – Harvested before 1991.
19.	CUT_PASS	Numeric	2	0	Pass that the cutblock was harvested in

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
20.	SOURCE	Character	3		Cutblock source of reference: ♦ FI – Forest Inventory; ♦ UPD – Cutblock updates.
21.	OWNER	Character	7		Organization that harvested the cutblock: ♦ APL – Alberta Plywood Ltd.; ♦ BUCH – Buchanan Lumber Ltd.; ♦ MTU – Miscellaneous Timber Use program; ♦ TOLKO – Tolko Industries Ltd.; ♦ WEYCO – Weyerhaeuser Corporation.
22.	LICENSE	Character	15		Permit that the cutblock was harvested under
23.	OPENNUM	Character	13		Cutblock opening number
24.	TDA	Numeric	2	0	Timber Damage Assessment identifier
25.	FIRENUMB	Character	12		Fire identifying number
26.	FIREYEAR	Numeric	6	0	Year of burn
27.	NR_NAME	Character	20		Name of Natural Region
28.	NSR_NAME	Character	25		Name of Natural Sub-Region
29.	TPA	Character	7		Trapper boundaries
30.	WSHD_NUM	Numeric	3	0	Watershed boundary number
31.	PA_NAME	Character	40		Name of Protected Area
32.	PA_TYPE	Character	9		Wildland Provincial Park identifier
33.	REC	Numeric	2	0	Recreation area identifier
34.	DRS	Numeric	2	0	Disposition reservation identifier
35.	FGL	Numeric	2	0	Forest grazing lease identifier
36.	GRL	Numeric	2	0	Grazing lease identifier
37.	RIV_CORR	Numeric	2	0	River corridor special management area identifier
38.	BUCKWILD	Numeric	2	0	Buck-for-wildlife special management area identifier
39.	CAN_CRK	Numeric	2	0	Canyon Creek prescribed burn special management area identifier
40.	OP_NAME	Character	15		Operating area name
41.	COMP_NUM	Numeric	2	0	Compartment number identifier
42.	MER	Numeric	2	0	Meridian
43.	TWP	Numeric	3	0	Township
44.	RGE	Numeric	2	0	Range
45.	PID	Numeric	4	0	Polygon identifier (stand number)
AVI Overstorey Attributes					
46.	MOIST	Character	1		Moisture regime identified as follows: ♦ A – Aquatic; ♦ D – Dry; ♦ M – Mesic; ♦ W – Wet.
47.	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.
48.	HEIGHT	Numeric	2	0	Height (m)

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
49.	SP1	Character	2		Species 1 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ LT – Larch; ♦ P – Pine; ♦ PJ – Jack Pine; ♦ PL – Lodgepole Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
50.	PER1	Numeric	2	0	Species 1 percent
51.	SP2	Character	2		Species 2 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ LT – Larch; ♦ P – Pine; ♦ PJ – Jack Pine; ♦ PL – Lodgepole Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
52.	PER2	Numeric	2	0	Species 2 percent
53.	SP3	Character	2		Species 3 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ FB – Balsam Fir; ♦ LT – Larch; ♦ PJ – Jack Pine; ♦ PL – Lodgepole Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
54.	PER3	Numeric	2	0	Species 3 percent
55.	SP4	Character	2		Species 4 identified as follows: ♦ AW – Trembling Aspen; ♦ PB – Balsam Poplar; ♦ BW – White Birch; ♦ FB – Balsam Fir; ♦ LT – Larch; ♦ PL – Lodgepole Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
56.	PER4	Numeric	2	0	Species 4 percent
57.	SP5	Character	2		Species 5 identified as follows: ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ SW – White Spruce.
58.	PER5	Numeric	2	0	Species 5 percent
59.	STR	Character	1		Stand structure identified as follows: ♦ C – Complex; ♦ H – Horizontal.
60.	STRVAL	Numeric	2	0	Stand structure value
61.	ORIGIN	Numeric	4	0	Origin

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
62.	TPR	Character	1		Timber Productivity Rating identified as follows: ♦ G – Good; ♦ M – Medium; ♦ F – Fair; ♦ U – Unproductive.
63.	MOD1	Character	2		Stand modifier 1 identified as follows: ♦ AS – Airstrip; ♦ BU – Burn; ♦ CC – Clearcut; ♦ CL – Clearing; ♦ CW – Abandoned wellsite; ♦ FL – Flooded; ♦ FT – Fire tower; ♦ IK – Insect kill; ♦ MT – Microwave tower; ♦ PI – Pipeline; ♦ SN – Snags; ♦ ST – Scattered timber; ♦ TH – Thinned; ♦ TL – Transmission line.
64.	EXT1	Numeric	2	0	Extent of modification 1
65.	YEAR1	Numeric	4	0	Year of modification 1
66.	MOD2	Character	2		Stand modifier 2 identified as follows: ♦ CL – Clearing; ♦ CW – Abandoned wellsite; ♦ FT – Fire tower; ♦ PI – Pipeline; ♦ SC – Scarified; ♦ SN – Snags; ♦ ST – Scattered timber; ♦ TL – Transmission line.
67.	EXT2	Numeric	2	0	Extent of modification 2
68.	YEAR2	Numeric	4	0	Year of modification 2
69.	MOD3	Character	2		Stand modifier 3 identified as follows: ♦ CL – Clearing; ♦ SN – Snags; ♦ ST – Scattered timber.
70.	EXT3	Numeric	2	0	Extent of modification 3
71.	YEAR3	Numeric	4	0	Year of modification 3
72.	MOD4	Character	2		Stand modifier 4 identifier
73.	EXT4	Numeric	2	0	Extent of modification 4
74.	YEAR4	Numeric	4	0	Year of modification 4
75.	NAT_V	Character	2		Naturally non-forested vegetated land identified as follows: ♦ BR – Bryophytes; ♦ HF – Herbaceous forbs; ♦ HG – Herbaceous grassland; ♦ SC – Closed shrubs; ♦ SO – Open shrubs.
76.	NAT_CL	Numeric	2	0	Non-forested natural vegetated land shrub closure

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
77.	ANTH_V	Character	3		Anthropogenic vegetated land identified as follows: ♦ CA – Cropland (annual); ♦ CIP – Pipeline; ♦ CIW – Geophysical activity (wellsite); ♦ CP – Cropland (perennial); ♦ CPR – Rough pasture land.
78.	ANTH_N	Character	3		Anthropogenic non-vegetated land identified as follows: ♦ AIG – Gravel or borrow pit; ♦ AIH – Permanent right-of-way; ♦ All – Industrial sites; ♦ ASR – Ribbon development.
79.	NAT_N	Character	3		Naturally non-vegetated land identified as follows: ♦ NMB – Recent burn; ♦ NMC – Cutbank; ♦ NMS – Sand; ♦ NWF – Flooded; ♦ NWL – Lake or pond; ♦ NWR – River.
80.	REF_SC	Character	1		Reference source identified as follows: ♦ F – Field plot; ♦ I – Interpreted TPR.
81.	REF_YR	Numeric	4	0	Reference year
AVI Understorey Attributes					
82.	U_MOIST	Character	1		Moisture regime identified as follows: ♦ A – Aquatic; ♦ D – Dry; ♦ M – Mesic; ♦ W – Wet.
83.	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.
84.	U_HEIGHT	Numeric	2	0	Height (m)
85.	U_SP1	Character	2		Species 1 identified as follows: ♦ A – Trembling Aspen; ♦ AW – Trembling Aspen; ♦ BW – White Birch; ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ PL – Lodgepole Pine; ♦ SB – Black Spruce; ♦ SW – White Spruce.
86.	U_PER1	Numeric	2	0	Species 1 percent
87.	U_SP2	Character	2		Species 2 identified as follows: ♦ A – Trembling Aspen; ♦ AW – Trembling Aspen; ♦ BW – White Birch; ♦ FB – Balsam Fir; ♦ PB – Balsam Poplar; ♦ LT – Larch; ♦ P – Pine; ♦ PL – Lodgepole Pine; ♦ SB – Black Spruce;

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
					◆ SW – White Spruce.
88.	U_PER2	Numeric	2	0	Species 2 percent
	U_SP3	Character	2		Species 3 identified as follows: ◆ AW – Trembling Aspen; ◆ BW – White Birch; ◆ FB – Balsam Fir; ◆ PB – Balsam Poplar; ◆ LT – Larch; ◆ PJ – Jack Pine; ◆ PL – Lodgepole Pine; ◆ SB – Black Spruce; ◆ SW – White Spruce.
89.	U_PER3	Numeric	2	0	Species 3 percent
90.	U_SP4	Character	2		Species 4 identified as follows: ◆ AW – Trembling Aspen; ◆ BW – White Birch; ◆ PB – Balsam Poplar; ◆ LT – Larch; ◆ PL – Lodgepole Pine; ◆ SB – Black Spruce; ◆ SW – White Spruce.
91.	U_PER4	Numeric	2	0	Species 4 percent
92.	U_SP5	Character	2		Species 5 identified as follows: ◆ SB – Black Spruce; ◆ SW – White Spruce.
93.	U_PER5	Numeric	2	0	Species 5 percent
94.	U_STR	Character	1		Stand structure identified as follows: ◆ H – Horizontal.
95.	U_STRVAL	Numeric	2	0	Stand structure value
96.	U_ORIGIN	Numeric	4	0	Origin
97.	U_TPR	Character	1		Timber productivity rating
98.	U_MOD1	Character	2		Stand modifier 1 identified as follows: ◆ BU – Burn; ◆ CC – Clearcut; ◆ CL – Clearing; ◆ CW – Abandoned wellsite; ◆ FL – Flooded; ◆ IK – Insect kill; ◆ MT – Microwave tower; ◆ PI – Pipeline; ◆ SN – Snags; ◆ ST – Scattered timber; ◆ TH – Thinned.
99.	U_EXT1	Numeric	2	0	Extent of modification 1
100.	U_YEAR1	Numeric	4	0	Year of modification 1
101.	U_MOD2	Character	2		Stand modifier 2 identified as follows: ◆ CL – Clearing; ◆ SC – Scarified; ◆ SN – Snags; ◆ ST – Scattered timber.
102.	U_EXT2	Numeric	2	0	Extent of modification 2
103.	U_YEAR2	Numeric	4	0	Year of modification 2

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
104.	U_MOD3	Character	2		Stand modifier 3 identified as follows: ♦ SN – Snags; ♦ ST – Scattered timber.
105.	U_EXT3	Numeric	2	0	Extent of modification 3
106.	U_YEAR3	Numeric	4	0	Year of modification 3
107.	U_NAT_V	Character	2		Non-forested natural vegetated land type identified as follows: ♦ HF – Herbaceous forbs; ♦ HG – Herbaceous grass; ♦ SC – Closed shrubs; ♦ SO – Open shrubs.
108.	U_NAT_CL	Numeric	2	0	Non-forested natural vegetated land shrub closure
109.	U_ANTH_V	Character	3		Anthropogenic vegetated land identified as follows: ♦ CIP – Pipeline; ♦ CIW – Wellsite; ♦ CP – Cropland (perennial); ♦ CPR – Rough pasture land.
110.	U_ANTH_N	Character	3		Anthropogenic non-vegetated land identified as follows: ♦ AIG – Gravel pit; ♦ AIH – Highway.
111.	U_NAT_N	Character	3		Naturally non-vegetated land identified as follows: ♦ NMS – Sand; ♦ NWF – Flooded land; ♦ NWL – Lake; ♦ NWR – River.
112.	U_REF_SC	Character	1		Reference source identified as follows: ♦ F – Field plot; ♦ I – Interpreted TPR.
113.	U_REF_YR	Numeric	4	0	Reference year
Calculated Fields					
114.	AREAHA	Numeric	8	2	Area (hectares)
115.	HFLAG	Numeric	4	0	Horizontal component identifier ♦ Use overstorey component (HFLAG = 1); ♦ Use understorey component (HFLAG = 2).
116.	SPGP	Character	4		Overstorey species group
117.	USPGROUP	Character	4		Understorey species group
118.	NONFOR	Numeric	4	0	Non-forested polygon identifier: ♦ Timber Damage Assessment area (NONFOR = 1); ♦ Natural vegetated (NONFOR = 2); ♦ Natural non-vegetated (NONFOR = 3); ♦ Anthropogenic vegetated (NONFOR = 4); ♦ Anthropogenic non-vegetated (NONFOR = 5); ♦ Forested (NONFOR = 0).
119.	NONFSPGP	Character	2		Cutblock species group derived from largest component of update cutblock

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
120.	CUTFLAG	Numeric	6	2	Cutblock identifier – identifies all cutblocks including: ♦ Non-vegetated islands within cutblocks (CUTFLAG = 0.5); ♦ Cutblock updates (CUTFLAG = 1); ♦ Forest inventory cutblocks (CUTFLAG = 4).
121.	CUT_SPGP	Character	2		Cutblock species group
122.	MERCH	Numeric	1	0	Non-merchantable polygon identifier: ♦ Unproductive timber productivity rating (MERCH = 1); ♦ Larch as primary or secondary species (MERCH = 2); ♦ Low productivity black spruce stands (MERCH = 3).
123.	CUT_YEAR	Numeric	4	0	Year cutblock was harvested
124.	AGE	Numeric	4	0	Stand age
125.	AGECLASS	Numeric	4	0	10 year age class
126.	YC_SPGP	Character	2		Yield curve species group
127.	YC_CRWN	Character	1		Yield curve crown class
128.	YC_SP	Character	2		Yield curve species
129.	NATREG	Numeric	4	0	Natural Sub-Region identifier: ♦ Central Mixedwood (NATREG = 1); ♦ Dry Mixedwood (NATREG = 2); ♦ Peace River Parkland (NATREG = 15).
130.	YC_STRAT	Character	12		Yield curve strata developed from volume sampling
131.	YCNUM	Numeric	4	0	Yield curve number developed from volume sampling and assigned as follows: ♦ MX-AB-D-A-G (YCNUM = 1); ♦ MX-AB-D-A-MF (YCNUM = 2); ♦ MX-CD-D-A-G (YCNUM = 5); ♦ MX-CD-D-A-MF (YCNUM = 6); ♦ A-AB-DC-A-A (YCNUM = 9); ♦ A-CD-DC-A-A (YCNUM = 10); ♦ A-AB-CD-A-A (YCNUM = 11); ♦ A-CD-CD-A-A (YCNUM = 12); ♦ A-AB-C-SW-A (YCNUM = 13); ♦ A-AB-C-PL-A (YCNUM = 14); ♦ A-AB-C-SB-A (YCNUM = 15); ♦ A-CD-C-SW-A (YCNUM = 16); ♦ A-CD-C-PL-A (YCNUM = 17); ♦ A-CD-C-SB-A (YCNUM = 18).
132.	DISP	Numeric	6	2	Disposition identifier: ♦ Forest grazing lease (DISP = 0.5); ♦ Special management area: either river corridor polygon, buck-for-wildlife disposition or Canyon Creek prescribed burn (DISP = 0.75); ♦ Grazing leases (DISP = 1); ♦ Recreation areas (DISP = 2); ♦ Wildlife protected areas (DISP = 3); ♦ Disposition Reservation (DISP = 4).

FIELD NO.	FIELD NAME	FIELD TYPE	FIELD WIDTH	NO. OF DECIMALS	FIELD DESCRIPTION
Net Landbase Determination Field					
133.	NETDOWN ¹	Numeric	6	2	Net down items – identifies all landbase categories: <ul style="list-style-type: none"> ◆ Net landbase (NETDOWN = 0); ◆ Water (NETDOWN = 1); ◆ Disposition (NETDOWN = 2); ◆ Recreational lake buffer – 400m (NETDOWN = 3); ◆ Trumpeter swan nesting site buffer – 200m (NETDOWN = 4); ◆ Medium recreational lake buffer – 200m (NETDOWN = 4.5); ◆ Lake buffer – 100m (NETDOWN = 5); ◆ River and large permanent stream buffer – 60m (NETDOWN = 6); ◆ Stream buffer – 30m (NETDOWN = 7); ◆ Anthropogenic vegetated, anthropogenic non-vegetated and TDA areas (NETDOWN = 8); ◆ Naturally vegetated and naturally non-vegetated (NETDOWN = 9); ◆ Merchantability deletions (NETDOWN = 10); ◆ Recent burns – since 1997 AVI (NETDOWN = 11).
Harvest Sequence					
134.	AOP	Numeric	8	2	Planned block identifier
135.	CUTYEAR1	Numeric	8	2	First entry harvest
136.	CUTYEAR2	Numeric	8	2	Second entry harvest
137.	CUTYEAR3	Numeric	8	2	Third entry harvest

¹ To net down the landbase, select only records where the "NETDOWN" field is equal to "0".