Weyerhaeuser Grande Prairie 2011 – 2021 DFMP

Land Base Assignment Updates

FMA #6900016

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1. DATABASE UPDATES AND QUALITY CONTROL

1.1 Land Base Updates

This documents summarizes two main types of land base updates applied to the Net Land Base Assignment Process (Weyerhaeuser 2009) was approved by ASRD. The first type of updates has no affect on the contributing land base; they are summarized in Section 2 - Land Base Attribute Updates. Those Land Base updates that potentially reduce contributing land base are summarized in Section 3 – Land Base Changes. Land base updates were captured in geodatabase feature class d_resultant3. The TSA work has been done using Remsoft Spatial Planning System (RSPS) and the Woodstock / Stanley shapefile (wst_file_nsr.shp) has been derived from d-resultant3.

1.2 Data Quality Control

Based on example from the Net Land Base Assignment Process (Weyerhaeuser 2009), all datasets were assembled into ArcInfo™ file geodatabase format from the source information and projected to UTM, Zone 11, NAD83 Datum where required. Only the required attributes and newly created attributes (see table in section 1.3) were maintained from each input layer. All input data was integrated into the existing net land base dataset using a point on polygon overlay process or otherwise as noted. This process involved converting each resultant polygon into a point – overlaying it using an 'IDENTITY' function and then joining the results back to the net land base dataset based on its unique identifier field [DGIS_LINK].

The software and operating system used to produce this overlay product was ESRI, NT workstation, ArcInfo 9.3.1 on Windows XP™ Professional operating system, ESRI Model Builder, and Python routines. All spatial processing was done using a default fuzzy tolerance of 0.0001 m and a dangle tolerance of 0.

Quality control checks were performed on both the input and output databases including the net land base file. The employed process ensured that no duplicate shapefile records were added to the resultant database, therefore, avoiding addition of new line work to the resultant database. Even though the unique polygon identifiers were updated between previous and current databases, data integrity and summaries were assumed to be accurate. Entire GIS update process was documented using a series of Python programs, making the process verifiable and repeatable.

2. LAND BASE ATTRIBUTE UPDATES

This section summarizes updates that have no affect on the contributing land base.

2.1 Initial Land Base Check

The quality control check of the 2009 net land base feature class identified an area of 0.9 ha with the 52 overlapping polygons; it had to be corrected before proceeding with new land base updates. The overlaps were created within the protective notation areas (PNT) using the land use designation datasets – these PNT areas were deletions secured by more than one user group and were double counted in the original net down process. In terms of timber supply models and net harvestable / contributing land base, however, these areas were excluded from productive land base and therefore would not have affected the timber supply analysis. These overlaps were deleted using the unique identifier ([DGIS_LINK]) using a simple Python select/delete features routine. The following [DGIS_LINK] polygons were eliminated from the dataset:

> 82876, 82877, 82878, 82879, 140046, 140047, 157613, 819545, 819546, 819547, 889512, 889513, 889514, 889515, 889516, 889517, 889518, 889519, 889520, 889521, 889522, 889533, 889534, 889536, 889537, 890216, 891664, 891665, 891666, 891667, 891668, 891669, 891670, 891671, 891672, 891673, 891675, 955636, 958542, 958543, 958559, 960099, 960100, 960101, 960102, 960103, 999270, 1050849, 1066669, 1066679, 1066680

Once these polygons were removed, the dataset was considered clean.

2.2 Integrated Datasets

The PFMS's SHS required integration of new datasets. Table 1 lists the datasets that were integrated into the net land base resultant dataset after September 2009 submission.

Table 1   List of New Datasets Integrated into Net Land Base

GIS Coverage / Shapefile	Description of GIS Cover
2009_2010Harvest.shp	Weyerhaeuser Harvest Blocks
2010_GDP_working_copy_Eras.shp	Weyerhaeuser GDP Blocks
AOP_2010.shp	Weyerhaeuser AOP Blocks
Designed_blocks.shp	Ainsworth Design Blocks
Harvested_blocks.shp	Ainsworth Harvest Blocks
Tolko_Blocks.shp	Tolko Blocks
mpb_split.shp	Updated MPB zones 1, 2, and 3 for TSA purposes
Dunes Area.shp	Digitized Dunes area
Polygons.shp	Ainsworth harvest exclusion for periods 1 & 2
Blocks_sequence.shp	Ainsworth updated preblocks
mpb_out2.dbf	Updated MPB Ratings for each AVI polygon
Blobs_run9_dec6_10.shp	Harvest areas in CMZ scheduled for periods 3 & 4
PFMS_mpb_shs_cmz.shp	2007 PFMS MPB SHS un-harvested blocks in CMZs
Blocks.shp	Weyerhaeuser harvested blocks
Year_1cut.shp	Weyerhaeuser planned blocks
Watersheds2.shp	Previous Weyerhaeuser watershed shapefile with updated unique watershed names (labels).
APLstands_ouput.shp	Areas for DX transition adjustments
Caribou_FMA_2009.shp	Updated Caribou Management Zone split
SH_Revised_PTS2.dbf	DX preblocks by operators in Saddle Hills for periods 1 and 2

Table 2 summarizes retained and calculated attributes from the new integrated datasets.

Table 2   List of Retained and Calculated Attributes

Integrated Dataset	Attribute
2009_2010Harvest.shp	[WEY_HARV_OPENNUM], [WEY_HARV_DATE], [WEYCO_HARVEST_PRESENT]
2010_GDP_working_copy_Eras.shp	[WEYCO_GDP_OPENNUM], [WEYCO_GDP_DATE], [WEYCO_GDP_PRESENT]
AOP_2010.shp	[WEYCO_AOP_OPENNUM], [WEYCO_AOP_DATE], [WEYCO_AOP_PRESENT]
Designed_blocks.shp	[AINS_DESI_OPENNUM], [AINS_DESI_DATE], [AINS_DESI_PRESENT]
Harvested_blocks.shp	[AINS_HARV_OPENNUM], [AINS_HARV_DATE], [AINS_HARVEST_PRESENT]
Tolko_Blocks.shp	[TOLKO_BLKS_OPENNUM], [TOLKO_BLKS_DATE], [TOLKO_BLKS_PRESENT]
mpb_split.shp	[MPB_ZONES]
Dunes Area.shp	[DUNES_CODE]
mpb_out2.dbf	[POLY_NUM], [CF], [SSI], [SSI_CF], [PINE_PER], [CON_PER], [PINE_PERC], [MPB_THEME], [MPB_THEME2], [MPB_THEME3]
Polygons.shp	[AIN_BLOB]
Blocks_sequence.shp	[AIN_PREB1]
Blobs_run9_dec6_10.shp	[WEY_BLOB]
PFMS_mpb_shs_cmz.shp	[PFMS_SHS]
Blocks.shp	[WEY_PREB1]
Year_1cut.shp	[WYE_PREB2]
Watersheds2.shp	[WATERSHED2]
APLstands_ouput.shp	[DX_TRANSIT]
Caribou_FMA_2009.shp	[CMZ_CODE]
SH_Revised_PTS2.dbf	[SH_OPER]

The following sections provide additional details on integrated datasets.

2.3   Caribou Management Zone Update

Boundaries of the Lingrell and Narraway Woodland Caribou Management Zones (CMZ) required updates. This was accomplished by splitting the net land base's CMZ area using the

point-to-polygon overlays and consultation with ASRD. Figure 1 shows the updated classification of the CMZ areas. The [MPB_ZONES] field was updated to reflect CMZ updates.

Figure 1   Updated CMZ Areas Boundaries

2.4   Saddle Hills Area Update

On November 25, 2009 Alberta SRD subdivided the Saddle Hills area into three operating zones, therefore, facilitating the resolution of the operating area assignment for deciduous timber operators – Weyerhaeuser, Ainsworth and Tolko. To reflect this addition in the net land base, an attribute [SADDLEZONE] was added and updated based on the land base attributes [WORKING_AR]. This attribute is the Weyerhaeuser Working Areas – areas internally defined by Weyerhaeuser to assist with operational activities. The following are the criteria used to classify attributes in the [SADDLEZONE] field:

1. [SADDLEZONE] was set to "EAST ZONE" if [WORKING_AR] was 'Bad Heart River' or 'Hilltop Lake' or 'Webster';
2. [SADDLEZONE] was set to "CENTRAL ZONE" if [WORKING_AR] was 'Boone Lake' or 'Burnt River' or 'Gordondale' or 'Jackfish Lake' or 'Kistuan River; and
3. [SADDLEZONE] was set to "WEST ZONE" if [WORKING_AR] was 'Bay Tree' or 'Jackfish Lake West'

The polygons that did not meet these criteria remained <NULL>.

Figure 2 shows the Saddle Hills classification zones and the Weyerhaeuser Working Areas that correspond to them.

Figure 2   Saddle Hills Zones

2.5   MPB Ratings Update

Alberta's Forest Management Branch has adapted the Shore/Safranyik Stand Susceptibility Index (SSI) Model for use in Alberta. AVI attribute data was converted consistent with the input requirements on the Mountain Pine Beetle (MPB) Stand Susceptibility Index model (version Sept 14, 2006). The shapefile was processed by the MPB model, resulting in a dBase output table (mpb_out2.dbf) with the unique polygon identifier ([POLY_NUM]), climate factor (CF), SSI (Stand Susceptibility Index without the Climate Factor), and SSICF (SSI with the Climate Factor) values for each point. The output file was processed in Python to assign the 4-character code used in [Theme10]. This 5-character code was then linked to the net land base dataset to populate the MPB rating ([MPB_THEME3] in net land base and [THEME10] in Woodstock file) within its attribute table. The MPB rating was also used to calculate the [MPB_KILL] attribute and make those polygons part of the MPB infestation subjective deletion (Section 3.4).

The pine rating (SSI_CF) classification was based on three factors including climate, pine rating and climate factor rating. The classification was completed by concatenating three characters as follows:

A**** - Climate Rating 1.0   *A*** - Pine Rating 81-100   **L** - Low SSICF (0-30)

B**** - Climate Rating 0.8   *B*** - Pine Rating 51-80   **M** - Mod SSICF (31-50)
C**** - Climate Rating 0.5   *C*** - Pine Rating 31-50   **H** - High SSICF (51-100)
D**** - Climate Rating 0.2   *D*** - Pine Rating 0-30
E**** - Climate Rating 0.1

Percent conifer and pine was calculated using [STD_PCTCON] and [STD_PCTPL] fields respectively. Conifer content as added to the MPB rating to facilitate timber supply analysis as fourth character as follows:

***X* - 100% conifer
***1..9* - 10..90% conifer
***D* - 60+% pine

Finally, as a fifth character, pine content in conifer stands as added to the MPB rating to show pine as percent of conifer for stands with >= 60% pine to facilitate timber supply analysis as fifth (last) character. It can assume the following values or it could be left blank:

***DX - 100% conifer
***D6..9 - 60..90% conifer

For example, if *[MPB_THEME3]* is 'BCHD9', that means that this stand has 'B' climate rating of 0.9, 'C' pine rating (31 – 50), 'H' climate factor rating (over 51); the stand is over 60% pine and pine content in stand is 90%.

Default value for MPB rating was assumed as non-existent and assigned the value of 'ZZ'.

2.6   Watershed Updates

Some spatially separated but with matching watersheds labels were detected in 2009 net land base shapefile required updates. They were updated to make sure only uniquely identified watershed names were present in the final net land base database files. This was achieved by adding a letter, for example, "A" or "B". Provided image summarizes watershed areas that received watershed naming updates. Updated watersheds were carried out throughout the TSA including the SHS shapefiles. Those watersheds, for which polygon centroids were outside the watershed coverage, were assigned 'error'. Updated watershed classification was finalized in the field [WATERSHED2]. Figure 3 summarizes updated watersheds

Figure 3   Updated Watersheds

2.7   Land Base and Strata Balancing

Land base and strata balancing affected approximately 1,750 ha. Of those stands, 1075 ha of conifer stands were transitioned to DX; Weyerhaeuser retained full reforestation responsibility of these stands. Required land base changes are captured in field [DX_TRANSIT]. Pure deciduous transition will take place in selected stands if [DX_TRANSIT] was identified as 'AW'. These APL stands were carried into the SHS using required DX transition adjustments.

2.8   MPB Zone Split

For the TSA purposes and to better model Mountain Pine beetle epidemic spread within the FMA area, Weyerhaeuser identified and added three management zones. These zones were updated in field [MPB_ZONES]. Figure 4 summarizes these zones at the FMA level.

Figure 4   Weyerhaeuser GP FMA Area Split into Three MPB Spread Zones for TSA Modeling Purposes

2.9   Cost Zone Update

In the 2009 Net Land Base, Weyerhaeuser cost area classification had errors in labeling the Chinook Ridge. During updates of this land base, if [TSA_COST_Z] was "CHinnok Ridge", it was replaced with "Chinook Ridge."

2.10 Forest Type Update

Three forest type classes were identified for all forested polygons and added to the net land base database. They were captured in [FOR_TYPE] field and were as follows:

  '2' – non-productive forest types;

  '3' – productive forest types within the FMA area; and

  '4' – productive forest types outside the FMA area.

3.   LAND BASE CHANGES

This section summarizes land base changes that, following the updates, potentially could reduce the size of the contributing land base.

3.1   Potentially Productive / Previous Harvest Area Update

As per ASRD directive on ARIS information integration, new potentially productive areas were added. These areas were identified as previously harvested stands as follows: if the Harvest Rule [HRV_RULE] = "R1A', stand was productive ([FOR_TYPE] = 3) and there was no AVI call ([SP1] = ''). Approximately 5,850 hectares were removed from contributing land base and assigned to subjective deletion as follows: [TYPE] was assigned "4. Subjective Deletion," [FOR_TYPE] was assigned 4, and [NET_LABEL] was given "8. Potentially Productive".

3.2   Dunes Area Update

Approximately 2,062 ha were identified as Dunes ([DUNES_CODE] = 1) and removed from productive land base. This area was reclassified as subjective deletion ([TYPE] = "4. Subjective Deletion") and non productive forest Type ([FOR_TYPE] = 4) and given a [NET_LABEL] = "9. Dunes". Figure 5 shows the net land base final stratification type for the Dunes area of the FMA. Table 3 summarizes broad cover group distribution in dunes area.

Figure 5   Net Land Base Final Stratification of the Dunes Area

Table 3   Broad Cover Group Distribution in Dunes Deletion

Broad Cover Group	Area (ha)*
CX	1,113.6
CD	85.1
CM	0.3
DC	218.2
DX	644.7
Total	2,061.9

* Area represents broad cover group summaries by broad cover groups before is based on AVI call and exclude other possible deletions. The actual number of contributing land base may differ.

3.3   Horizontal Stands

Horizontal stand area adjustment was not applied in the 2011 land base update process; this added approximately 5 hectares to the net land base. Stand area in hectares [Area_ha] field was calculated as [Shape_Area] / 10,000.

3.4   Saddle Hills' MPB Infestation

Saddle Hills have a significant MPB infestation and some infected area was removed from productive land base. A new field [MPB_KILL] was added to reflect these changes. The [MPB_KILL] field was set to '1' for already infected stands or those stands that most likely will be affected in the near future. The [MPB_KILL] field was updated using following criteria:

> If [Std_age5] > 12 (older than 60 years) and stand composition of pine > 60% and [TSA_Cost_Z] is "Saddle Hills North", "Saddle Hills South" or "Saddle Hills East" then [MPB_KILL] was assigned '1'.

Then, the net harvestable (contributing) land base was updated as follows:

> The mountain pine beetle infested stands (MPB_KILL was '1') in the FMA ([FMA_CODE] was 'P') contributing land base area ([TYPE] was '5. Productive') and stand was either as existing or planned cutblock (CUTBLK was 'P' or 'Y') then [TYPE] was set to '4. Subjective', [NETLABEL] was set to '10. MPB infestation', and [FOR_TYPE] was set to '2' (non-productive forest type). These areas will not be contributing to the AAC calculation.

4.   FINAL RESULTS

4.1   Cutblock Rule Summaries

Net land base updates changed areas assignments for the Cutblock Rules. Table 4 summarizes updated Cutblock Rules for the Weyerhaeuser Grande Prairie FMA area. The biggest changes are in the planned cutblocks under the Cutblock Rule R9.

Table 4   Cutblock Rule Area Summary Following Land Base Update

Spatial Cutblock Source	Cutblock Rule [HRV_RULE]	Description	FMA	Non-FMA	Total (ha)	Total (%)
ARIS	R1A	Pre-1991 Weyerhaeuser ARIS Data or AVI	59,942	189	60,131	22.2%
ARIS	R1B	Post-1991 Weyerhaeuser ARIS Data	96,508	44	96,552	35.7%
ARIS	R2	Tolko and Ainsworth ARIS Data	21,755	389	22,144	8.2%
Harvest Data	R6	SRD CTP, no link to ARIS data	134	0	134	0.0%
AVI	R7A	CC Modifier, Modifier Year, and AVI Understory; use Switch Stands	14,434	39	14,472	5.4%
AVI	R7B	CC Modifier and Modifier Year; no AVI Understory	2,309	8	2,317	0.9%
AVI	R7C	CC Modifier, no Modifier Year, no AVI Understory; use AVI SoPM; Probably not a Cutblock	6,722	72	6,794	2.5%
AVI	R8	AVI BCG missing; Assign Area-Weighted Yield Curve	4,538	255	4,793	1.8%
AOP & GDP	R9	Planned Cutblocks	63,035	120	63,156	23.3%
Total			**269,378**	**1,116**	**270,493**	**100.0%**

4.2   Updated Netdown Summary

Table 5 provides a summary of Weyerhaeuser Grande Prairie's land base netdown. The summary includes a comparison between FMA and Non-FMA and GRL and Non-GRL areas. This split is due to the different harvest rights for Weyerhaeuser Grande Prairie operations and deciduous quota operators.

Table 5   Updated Summary of Weyerhaeuser Grande Prairie FMA Netdown (ha)*

Category	FMA			Non-FMA			Land Base Total
	Non GRL	GRL	Total	Non GRL	GRL	Total	
1. Dispositions							
1. PNTs	4,188	0	4,188	85	0	85	4,273
2. Unique Areas	162	0	162	38	0	38	199
3. Trumpeter Swan Areas	3,546	0	3,546	566	0	566	4,112
4. Landuse Dispositions	40,746	0	40,746	639	275	915	41,661
Sub-Total	**48,642**	**0**	**48,642**	**1,328**	**275**	**1,603**	**50,245**
2. Non-Forested							
1. Anthropogenic Non-Vegetated	7,065	0	7,065	347	148	495	7,560
2. Naturally Non-Vegetated	12,335	0	12,335	1,158	82	1,240	13,575
3. Anthropogenic Vegetated	2,714	0	2,714	3,133	622	3,756	6,469
4. Non-Forested Vegetated	24,428	0	24,428	918	1,077	1,995	26,423
Sub-Total	**46,540**	**1**	**46,541**	**5,556**	**1,929**	**7,486**	**54,027**
3. Buffers							
1. Seismic Lines	7,152	1	7,152	3	6	9	7,161
2. River Buffer	14,451	0	14,451	167	197	365	14,816
3. Lake Buffer	705	0	705	72	0	72	776
4. 100m Buffer	325	0	325	1	0	1	327
5. 60m Buffer	2,616	0	2,616	164	46	210	2,826
6. 30m Buffer	49,517	0	49,517	298	327	624	50,141
Sub-Total	**74,766**	**1**	**74,766**	**705**	**576**	**1,281**	**76,047**
4. Subjective							
1. Steep Slopes	43,814	0	43,814	542	9	551	44,364
2. Larch	20,880	0	20,880	1,181	424	1,605	22,485
3. Black Spruce	8,032	0	8,032	105	198	303	8,335
4. A-Density DX Stands	15,130	0	15,130	239	270	509	15,639
5. Unidentified Opening	0	0	0	0	0	0	0
6. Horizontal Stands	0	0	0	0	0	0	0
7. Range Improvement	0	0	0	0	16	16	16
8. Potentially Productive	5,847	0	5,847	0	3	3	5,850
9. Dunes	1,141	0	1,141	921	0	921	2,062
10. MPB infestation	1,717	0	1,717	0	0	0	1,717
Sub-Total	**96,561**	**0**	**96,561**	**2,988**	**919**	**3,907**	**100,468**
5. Productive							
Pure Conifer (CX)	500,425	0	500,425	1,371	993	2,364	502,789
Conifer Leading (CD)	45,497	0	45,497	95	259	354	45,851
Deciduous Leading (DC)	86,653	1	86,654	317	1,318	1,635	88,289
Pure Deciduous (DX)	213,726	1	213,727	1,591	5,398	6,989	220,716
xCOMP	4,261	0	4,261	222	13	236	4,496
Sub-Total	**850,562**	**2**	**850,564**	**3,596**	**7,982**	**11,577**	**862,141**
Grand Total	**1,117,071**	**4**	**1,117,075**	**14,173**	**11,682**	**25,854**	**1,142,929**

* To replicate netdown summaries, the following d_resultant3 fields should be used: *[FMA_CODE]*, *[TYPE]*, *[NETLABEL]*, *[GRAZING]*, summarized by *[AREA_HA]*.

There were no significant changes in the contributing land base's age class distribution. Figure 6 summarizes updated Weyerhaeuser Grande Prairie FMA age class distribution by broad cover groups for contributing land base.

Figure 6   Updated Weyerhaesuer Grande Prairie FMA Age Class Distribution by Broad Cover Ggroups for Contribting Land Base

4.3   Comparison of Land Base Classification

The FMA area land base classification was similar between 2009 and 2011. The main difference was in the productive and subjective deletion classifications. The major features that cause to shift area between productive and subjective deletion areas are the Dunes, the MPB infestation and the potentially productive area removal from the productive land base. Table 6 summarizes netdown comparison between 2009 and 2011.

Table 6   2009 – 2011 Netdown Comparison (ha) – Entire Land Base*

Type	2009	2011	Diff (ha)	Diff (%)
1. Dispositions	50,354	50,245	-109	-0.2%
2. Non-Forested	54,027	54,027	0	0.0%
3. Buffers	76,244	76,047	-196	-0.3%
4. Subjective	90,846	100,468	9,622	9.6%
5. Productive	871,460	862,141	-9,319	-1.1%
Total	1,142,930	1,142,929	-1	0.0%

* Difference of 1 hectare is due to duplicate polygon removal as described in Section 2.

4.4   Comparison of Contributing Land Base

Between 2009 and 2011, the contribution land base decreased by 8,399 ha. Table 7 summarizes the change in productive land base area by broad cover groups. Results indicate that there has been a decrease in all categories of the productive land base, with the most significant decrease being in the pure conifer stands.

Table 7   2009 - 2011 Comparison of Contributing Land Base

Type	2009	2011	Diff (ha)	Diff (%)
Pure Conifer (CX)	507,907	500,425	-7,482	-1.5%
Conifer Leading (CD)	45,714	45,497	-217	-0.5%
Deciduous Leading (DC)	88,155	87,972	-183	-0.2%
Pure Deciduous (DX)	219,636	219,124	-512	-0.2%
xCOMP	4,261	4,261	0	0.0%
Total	865,673	857,278	-8,394	-1.0%

5.   RSPS SHAPEFILE CREATION

5.1   SHS Preprocessing

The result of land base assignment updates (d_resultant3) geodatabase feature class created the basis for SHS shapefile creation.

A series of Python scripts were created to prepared and assemble the SHS shapefile only for forested net land base fields where [STD_BCG] was 'CD', 'CM', 'CX', 'DC', or 'DX'. Table 8 summarizes Woodstock / Stanley shapefile (wst_file_nsr.shp) development process.

Table 8   List of Conditions and Steps Processing Woodstock / Stanley Shapefile

Attribute	Attribute Type	Original Attribute Name
DGIS_LINK	Long(9)	
THEME1	Text(3)	NSR_CODE
THEME2	Text(7)	SADDLEZONE
THEME3	Text(3)	NSR_YC
THEME4	Text(2)	STD_BCG
THEME5	Short(3)	YLD_STRATA
THEME6	Short(1)	GRAZING
THEME7	Short(2)	FOR_TYPE
THEME8	Text(3)	REG_PATH

Attribute	Attribute Type	Original Attribute Name
THEME9	Text(6)	CMZ_CODE
THEME10	Text(10)	MPB_THEME3
THEME11	Short(10)	MPB_KILL
STD_AGE5	Short(4)	
CUT_PERIOD	Text(2)	CUTPERIODS
AREA_HA	Double(16,6)	
CUTBLK	Text(1)	
MPB_THEME	Text(10)	
MPB_THEME2	Text(10)	
MPB_THEME3	Text(10)	
MPB_ZONE	Text(10)	MPB_ZONES
MPB_KILL	Short(10)	
POLY_NUM	Short(10)	
DX_TRANSIT	Text(5)	
SSI	Short(4)	
SSI_CF	Short(4)	
PINE_PER	Double(16,6)	
CON_PER	Double(16,6)	
PINE_PERC	Double(16,6)	
REG_PATH	Text(3)	
WORKING_AR	Text(25)	
FMA_CODE	Text(1)	
FMU_CODE	Text(5)	
YLD_STRATA	Short(3)	
NSR_CODE	Text(3)	
NSR_YC	Text(3)	
STD_BCG	Text(2)	
STD_CC	Text(1)	
STD_PCTCON	Short(2)	
STD_SP1	Text(2)	
STD_SP2	Text(2)	
GRAZING	Short(1)	
FOR_TYPE	Short(2)	
CMZ_CODE	Text(6)	
TSA_COST_Z	Text(20)	
HEIGHT	Short(4)	
TYPE	Text(15)	
NETLABEL	Text(30)	
HRV_RULE	Text(3)	

Attribute	Attribute Type	Original Attribute Name
HRV_DATE	Short(4)	
LAND_STAT	Text(4)	
RES_STAT	Text(4)	
DEL	Text(10)	
SADDLEZONE	Text(4)	
OPEN_NUM	Text(11)	
PFMS_SHS	Text(10)	
WEY_PREB1	Text(10)	
WEY_PREB2	Text(10)	
AIN_PREB1	Text(10)	
WEY_BLOB	Text(10)	
AIN_BLOB	Text(10)	

Four new attributes were added to the shapefile; they are summarized in Table 9.

Table 9   Woodstock / Stanley (wst_file_nsr.shp) shapefile added attributes

Attribute / Field	Attribute Type
PREBLOCK	Text(4)
ACTION	Text(2)
BLOCK	Text(11)
STANLOCK	Text(10)

5.2   Attributes Updates in Woodstock / Stanley Shapefile

Fields [PREBLOCK], [BLOCK], and [ACTION] are cleared, and a number of values are calculated conditionally for specific attributes of the feature class. They are summarized in Table 10.

Table 10   Attribute updates for Woodstock / Stanley shapefile (wst_file_nsr.shp)

Attribute / Field	New Value	Condition
Yield Curve related updates		
THEME1	MIX	NSR_CODE in ('CMW', 'DMW')
THEME1	SA	NSR_CODE in ('M', 'SA')
MPB_KILL	1	MPB_KILL = 0
THEME3	MIX	THEME3 = 'MIX'
THEME2	X	THEME2 not in ('WEST', 'EAST', 'CENT')
THEME9	N	THEME9 = blank

Attribute / Field	New Value	Condition
MPB PFMS and updated cutblocks		
CUTPERIODS	2	AIN_PREB1 = 'PREBLOCK'
CUTPERIODS	1 or 2	PFMS_SHS = 'PREBLOCK'
CUTPERIODS	2	WEY_PREB1 = 'PREBLOCK'
CUTPERIODS	2	WEY_PREB2 = 'PREBLOCK'
Set Action 2: ConCC		
CUTPERIODS	CUT_PERIOD	CUT_PERIOD in ('-3', '-2', '-1', '0')
CUTPERIODS	CUT_PERIOD	CUT_PERIOD in ('1', '2', '3', '4')
Set Action 4: DecCC		
CUTPERIODS	CUT_PERIOD	CUT_PERIOD in ('-3', '-2', '-1', '0')
CUTPERIODS	CUT_PERIOD	CUT_PERIOD in ('1', '2', '3', '4')
Update CUT_PERIOD and FOR_TYPE in preblock records		
THEME7	3	FMA_CODE = 'P'
CUT_PERIOD	CUTPERIODS	area_ha >= 0

6.   RSPS PRE-TSA SCRIPT PROCESSING

The Woodstock / Stanley shapefile was uploaded and registered into the Remsoft system. Before any timber supply analysis could be performed, the shapefile was checked and corrected to avoid any possible errors; error free shapefile was used as a basis for subsequent TSA.

A series of shapefile updates were performed to make sure TSA model inputs and outputs were properly identified including existing and future cutblocks as well as MPB and caribou management assumptions. Remsoft scripts were also used to capture intermediate results of multi stage SHS process. These scripts are summarized next.

The following updates were applied using RSPS scripts:

1. Assign all existing cutblocks to managed stands

    Replace [Theme8] with 'MGD' if [Preblock] = 'Y' and [Cut_period] = '-3', '-2', '-1', or '0'

2. Remove preblocks on non-productive land base

    Replace [Action] with '', [Block] with '', [Cut_period] with '' and [Preblock] with '' if [Preblock] = 'Y' and [Theme7] = 2

3. [Theme11] updates

    [Final_Clas] field carries NSR percent volume reduction in conifer stands. Its values were calculated outside the GIS process. It results were captured in field [Final_clas] in

Nsr_vol_adj.dbf table and linked to Woodstock / Stanley file using [DGIS_LINK] field.
The following updates were applied to Woodstock / Stanley shapefile (wst_file_nsr.shp):

By default, [Final_Clas] and [Theme11] values were set to 100
Replace [Final_clas] with [final_clas]
Replace [Theme11] with [final_clas]

4. Update MPB rating for previously harvested stands

Replace [Theme10] with 'ZZ' if [Preblock] = 'Y' and [Cut_period] = '-1', '-2', '-3', or '0'
Replace [Theme10] with 'ZZ' if [Theme10] = 'ZZD6', 'ZZD7', 'ZZD8', 'ZZD9', or 'ZZDX'

5. To accommodate Ainsworth planning process using existing preblocks, the following two general updates were done in wst_file_nsr.dbf:

1) Identify 10 yr harvest restrictions in pure deciduous grazing areas as follows:

If [TYPE] was "5. Productive", [Theme4] was 'DX', and [Ain_blob] was "LOCKED" then [STANLOCK] was replaced with "_LOCK 2" and fields [CUT_PERIOD], [ACTION], [BLOCK], [PREBLOCK] were left blank.

2) New Ainsworth preblocks were added in pure deciduous grazing areas as follows:

If [Ain_preb1] was "PREBLOCK" and [TYPE] = "5. Productive" and [Theme4] was "DX" or "DC" then [CUT_PERIOD] was replaced with "1", [ACTION] replaced with "4", [BLOCK] was replaced with concatenated "B" and [DGIS_LINK], and [PREBLOCK] was replaced with "P".

6. Lockout for 20 years Weyerhaeuser and ASRD identified sensitive CMZ areas

Replace [Stanlock] with '_LOCK 4' if [Wey_blob] = 'LOCKED' and [Preblock] <> 'Y'

7. Lockout other productive harvest areas for 20 years in CMZs

Replace [Stanlock] with '_LOCK 4' if [Theme9] <> 'N' and [Preblock] <> 'Y'

8. Lockout young (less than 60 year old) managed stands from harvest sequence during first 20 years

Replace [Stanlock] with '_LOCK 4' if [Theme4] = 'CD', 'CX', 'DC', 'CM' and [Theme6] = 0 and [Theme7] = 3 and [Theme8] = 'NAT' or 'MGD' and [Std_age5] < 14

9. Saddle Hills DX preblock updates

1) These updates identified preblocks in Saddle Hills from Ainsworth and Tolko's revised shapefile:

Replace [Cutpd_o] with '1', [Blk_o] with 'B' + DGIS_LINK, [Preblk_o] with 'Y' and [Act_o] with '4' if [Theme4] = 'DX' and [Operator] = 'AINS', 'SRD', or 'TOLKO'

2) Update preblock timing of the harvests:

Replace [Cutpd_o] with '2' IF [Cutpd_o] = '1' and [Theme4] = 'DX' and [Blk_o] begins with 'B1', 'B3', 'B5', 'B7', or 'B9'.

3) Lock out harvests from Saddle Hills for first 10 years other than selected preblocks:

Replace [Stanlk_o] with '_LOCK 2' if PTheme4] = 'DX' and [Preblk_o] = 'Y' or [Theme2] was 'EAST', 'WEST', or 'CENT'

10. CMZ MPB preblock cut period updates

Replace [Preblk_o] with 'Y', [Act_o] with '5', and [Cutpd_o] with '3' if [DGIS_LINK] was:

471311, 471312, 471391, 471982, 471987, 471989, 471990, 471992, 471998, 472020, 516719, 516740, 516741, 516743, 516927, 516928, 516929, 516937, 516954, or 516956

7. REFERENCES

Weyerhaeuser 2009. Weyerhaeuser Grande Prairie, 2011-2021 Land Base Assignment, September 2009. Prepared by Timberline Natural Resource Group.

8. DATA DICTIONARIES

8.1 Updated Land Base Netdown

File: d_resultant3.dbf
Number of records: 1,098,544

Index	Name	Type	Length	Decimals	Values
1	OBJECTID	OID	4	0	<skipped>
2	Shape	Geometry	0	0	<skipped>
3	DGIS_LINK	Integer	4	0	<skipped>
4	OID_	Integer	4	0	<skipped>
5	RANK	String	3	0	<blank>; DEL
6	WORKING_AR	String	25	0	<blank>; Bay Tree; Amerada East; Amerada South; Amerada West; Bad Heart River; Bald Mountain; Basil Ridge; Big Mountain; Boone Lake; Bowen North; Burnt River; CFO Ridge; Campbell Creek; Central Narraway; Central Ridge; Chaleur Valley; Chinook Valley; Copton Tower; Dimond Dick; East Iroquois Creek; Gordondale; Grizzly Creek; Haglund Creek; Hammerhead; Hat Mountain; Henning Line; Hidding Creek; Hilltop Lake; Jackfish Lake; Jackfish Lake West; Kakwa Tower; Kakwa West South; Kistuan River; Lick Creek; Lingrell Pit; Lynx Creek; Muddy Creek; Nisby; North Musreau; North Narraway; Nose Escarpment; Nose Lake; Nose Mountan Basin; Nose Ridge; Odum Ridge; Pine Ridges; Pinto North; Pinto South; Porcupine; Prairie Creek North; Prairie Creek South; Rats Ass; Redrock Creek; Route Creek; Sandbar Creek; Seafort; Sheep Creek; Shetler; Smoky North; Smoky South; Snaky Creek; South Musreau; South Narraway; Stetson Creek; Stony Creek; The Beach; Torrens Tower; Two Lakes; Unocal; Valley Creek; Walton Mountain; Wapiti; Webster; West Iroquois Creek; West Torrens; Wolf Creek

Index	Name	Type	Length	Decimals	Values
7	TSA_COST_Z	String	20	0	<blank>; 1800 Timber Berth; Amerada; Bowen; Bull Creek; Calahoo; Chicken Creek; Chinook Ridge; Daniel Creek; Hammerhead; Kakwa Tower; Kakwa West; Lingrell; Lynx Creek; Musreau; Narraway; Nose Mountain; Pine Rat; Pinto; Pinto Cut Across; Prairie Creek; Redrock; Saddle Hills East; Saddle Hills North; Saddle Hills South; Sherman; Wapiti; Wilson Lake; Winyandy Flats
8	DRAIN_CODE	Small Integer	2	0	0; 60; 100
9	ELEV	String	5	0	<blank>; HIGH
10	SEISMIC	Double	8	0	0.0; 299.0
11	BUFF_DIST	Double	8	0	0.0; 30.0
12	FMA_CODE	String	1	0	<blank>; P
13	DTA_NEW	String	15	0	<blank>; DTLG910005
14	AB_1PGEOGB	Integer	4	0	0; 11; 14; 15; 21; 22; 24; 26; 31; 32; 33; 34; 35; 36; 37; 41; 45; 46; 247
15	DTA_NAME	String	30	0	<blank>; Ainsworth; Tolko
16	DTA_LICENS	String	25	0	<blank>; DTLG910001; DTLG910002; DTLG910003; DTLG910004; DTPG910001; DTPG910002
17	SWANS	Integer	4	0	0; 200
18	CTP_CUT	String	15	0	<blank>; 6120680627A; 6120680633A; 6130680163A
19	OPEN_NUM	String	11	0	<blank>; 1000; 1001; 1002; 1004; 1005; 1006; 1007; 1008; 1009; 1010; 1011; 1013; 1014; 1015; 1016; 1017; 1018; 1019; 1020; 1021; 1022; 1024; 1025; 1026; 1027; 1028; 1029; 1030; 1031; 1032; 1033; 1034; 1035; 1036; 1037; 1038; 1039; 1040; 1041; 1042; 1043; 1044; 1045; 1046; 1047; 1048; 1049; 1050; 1051; 1052; 1053; 1054; 1055; 1056; 1057; 1058; 1059; 1060; 1061; 1062; 1063; 1064; 1065; 1066; 1067; 1068; 1069; 1070; 1071; 1072; 1073; 1074; 1075; 1076; 1077; 1078; 1079; 1080; 1081; 1082; 1083; 1084; 1085; 1086; 1087; 1088; 1089; 1090; 1091; 1092; 1094; 1095; 1096; 1097; 1098; 1099; 1100; 1101; 1102; ...

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23	TLKO_SKID	Date	8	0	<null>; 10/24/2005
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37	NSR_CODE	String	3	0	<blank>; A; CM; DMW; LF; M; SA; UF
38	ECO_CODE	String	4	0	<blank>; a; b; c; d; e; f; g; h; i; j; k; l; m; n; o; xx
39	WATERSHED	String	9	0	<blank>; A0813EF06; A08C11A04; A08C11A05; A08C11A06; A08C11A07; A08C11C03; A08C11D02; A08C11D03; A08C11D05; A08C11D06; A08C11E01; A08C11E02; A08C11E03; A08C11E04; A08C11E05; A08C11E07; A08C11E08; A08C11E09; A08C11E10; A08C11E11; A08C11E12; A08C11E13; A08C11E25; A08D11C04; A08D12B02; A08D12B03; A08D12B04; A08D12D03; A08D12D04; A08D26D02; A08E13A01; A08E13A02; A08E13A03; A08E13A04; A08E13A05; A08E13A06; A08E13B01; A08E13B02; A08E13B03; A08E13B04; A08E13B05; A08E13B06; A08E13B07; A08E13B08;

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41	CMZ_CODE	String	6	0	LNG; LNG_AA; N; NRW; NRW_AA; RRC; RRC_AA
42	DISP_APPL	String	3	0	<blank>; CUP; DRS; EZE; FDL; FRD; GRL; LOC; MLL; MLP; MSL; PIL; PLA; RDS; REA; REC; ROE; RRD; SMC; SME; SML; VCE
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Index	Name	Type	Length	Decimals	Values
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45	UNQ_AREA	String	1	0	<blank>; Y
46	DISP_GRL	String	3	0	<blank>; GRL
47	AVIRSI_FIN	Integer	4	0	2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 31; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70; 71; 72; 73; 74; 75; 76; 77; 78; 79; 80; 81; 82; 83; 84; 85; 86; 87; 88; 89; 90; 91; 92; 93; 94; 95; 96; 97; 98; 99; 100; 101; ...
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49	MER	Small Integer	2	0	<skipped>
50	TWP	Small Integer	2	0	<skipped>
51	RGE	Small Integer	2	0	<skipped>
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54	HEIGHT	Small Integer	2	0	<skipped>
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60	SP3PER	Small Integer	2	0	0; 1; 2; 3
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62	SP4PER	Small Integer	2	0	0; 1; 2

Index	Name	Type	Length	Decimals	Values
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68	INTERPTPR	String	1	0	<blank>; I
69	INTERPRETE	String	2	0	<blank>; TP
70	NONFORTYPE	String	2	0	<blank>; BR; HF; HG; SC; SO
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72	ANTHVEG	String	3	0	<blank>; CA; CIP; CIW; CP; CPR; NWF; NWL
73	ANTHNONVEG	String	3	0	<blank>; AIF; AIG; AIH; AII; ASR; CIP; CIW
74	NATNONVEG	String	3	0	<blank>; AIG; AIH; ASR; NMC; NMR; NMS; NWF; NWL; NWR
75	FCHECK	String	1	0	<blank>; A; F; I
76	REFYEAR	Small Integer	2	0	0; 1997; 1998; 2000; 2001; 2002; 2003; 2006
77	STEMCLASS	Small Integer	2	0	0; 1; 2; 3; 4; 9
78	DECID_DC	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6
79	CONIF_DC	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6
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82	YEAR	Small Integer	2	0	0; 1960; 1970; 1972; 1973; 1974; 1975; 1976; 1977; 1978; 1979; 1980; 1981; 1982; 1983; 1984; 1985; 1986; 1987; 1988; 1989; 1990; 1991; 1992; 1993; 1994; 1995; 1996; 1997; 1998; 1999; 2000
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84	EXTENT2	Small Integer	2	0	0; 1; 2; 3; 4; 5
85	YEAR2	Small Integer	2	0	0; 1993; 1995
86	MODIFIER3	String	2	0	<blank>; CC
87	EXTENT3	Small Integer	2	0	0; 4
88	YEAR3	Small Integer	2	0	0; 1986

Index	Name	Type	Length	Decimals	Values
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90	CC_U	String	1	0	\<blank>; A; B; C; D
91	HEIGHT_U	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 31
92	SP1_U	String	2	0	\<blank>; AW; BW; FA; FB; LT; PB; PL; SB; SE; SW
93	SP1PER_U	Small Integer	2	0	0; 3; 4; 5; 6; 7; 8; 9; 10
94	SP2_U	String	2	0	\<blank>; AW; BW; FA; FB; LT; PB; PL; SB; SE; SW
95	SP2PER_U	Small Integer	2	0	0; 1; 2; 3; 4; 5
96	SP3_U	String	2	0	\<blank>; AW; BW; FB; LT; PB; PL; SB; SE; SW
97	SP3PER_U	Small Integer	2	0	0; 1; 2; 3
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99	SP4PER_U	Small Integer	2	0	0; 1; 2
100	SP5_U	String	2	0	\<blank>; AW; BW; FB; LT; PB; PL; SB; SE; SW
101	SP5PER_U	Small Integer	2	0	0; 1
102	STRUCTURE_	String	2	0	\<blank>; 0; H2; H3; H4; H5; H6; H7; H8; H9
103	ORIGIN_U	Small Integer	2	0	0; 1750; 1770; 1780; 1800; 1810; 1820; 1830; 1840; 1850; 1860; 1870; 1880; 1890; 1900; 1910; 1920; 1930; 1940; 1950; 1960; 1970; 1975; 1976; 1977; 1978; 1979; 1980; 1986; 1987; 1989; 1990; 1993; 1996; 1997; 1998
104	TPR_U	String	1	0	\<blank>; F; G; M; U; g
105	NONFORTY_1	String	2	0	\<blank>; BR; HF; HG; SC; SO
106	NONFORCL_U	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
107	ANTHVEG_U	String	3	0	\<blank>
108	ANTHNONV_1	String	3	0	\<blank>
109	NATNONVEG_	String	3	0	\<blank>; NWF
110	GIS_LINK	Integer	4	0	\<skipped>
111	NSR_YC	String	3	0	\<blank>; ALP; CM; LF; MIX; UF
112	AREA_HA	Double	8	0	\<skipped>

Index	Name	Type	Length	Decimals	Values
113	HORZHA	Double	8	0	0.0; 6.3e-005; 0.000152; 0.000227; 0.00031; 0.000418; 0.000483; 0.00095; 0.001526; 0.002815; 0.00781; 0.015219; 0.032514; 0.165694; 0.221709; 0.443848; 4.442684
114	HRV_DATE	Small Integer	2	0	0; 1850; 1900; 1920; 1930; 1940; 1950; 1960; 1970; 1973; 1974; 1975; 1976; 1977; 1978; 1979; 1980; 1981; 1982; 1983; 1984; 1985; 1986; 1987; 1988; 1989; 1990; 1991; 1992; 1993; 1994; 1995; 1996; 1997; 1998; 1999; 2000; 2001; 2002; 2003; 2004; 2005; 2006; 2007; 2008; 2009; 2010; 2011; 2015
115	REG_PATH	String	3	0	MGD; NAT
116	SWITCH	String	1	0	<blank>; C; Y
117	STORY_USED	String	2	0	CT; OS; US
118	DEL	String	10	0	<blank>; ADENS; ANTHNONVEG; ANTHVEG; BSPRUCE; LARCH; NATNONVEG; NONFORTYPE
119	BCGP	String	2	0	CD; CX; DC; DX; XX
120	UBCGP	String	2	0	CD; CX; DC; DX; XX
121	LAND_STAT	String	4	0	<blank>; UNIQ
122	RES_STAT	String	4	0	<blank>; INOP; LAKE; RIVR; SEIS; STM1; STM2; STM3; SWAN
123	YLD_STRATA	Small Integer	2	0	1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 40; 50; 98
124	LANDUSE	String	3	0	<blank>; LLN
125	PNT	Small Integer	2	0	0; 1
126	GRAZING	Small Integer	2	0	0; 1
127	CUTBLK	String	1	0	<blank>; P; Y
128	CUTPERIODS	String	2	0	<blank>; -1; -2; -3; 0; 1; 2
129	TYPE	String	15	0	1. Dispositions; 2. Non-Forested; 3. Buffers; 4. Subjective; 5. Productive
130	NETLABEL	String	30	0	1. Anthropogenic Non-Vegetated; 1. PNTs; 1. Seismic Lines; 1. Steep Slopes; 10. MPB infestation; 2. Larch; 2. Naturally Non-Vegetated; 2. River Buffer; 2. Unique Areas; 3. Anthropogenic Vegetated; 3. Black Spruce; 3. Lake Buffer; 3. Trumpeter

Index	Name	Type	Length	Decimals	Values
					Swan Areas; 4. 100m Buffer; 4. A-Density DX Stands; 4. Landuse Dispositions; 4. Non-Forested Vegetated; 5. 60m Buffer; 5. Unidentified Opening; 6. 30m Buffer; 7. Range Improvement; 8. Potentially Productive; 9. Dunes; CD; CX; DC; DX; xCOMP
131	FOR_TYPE	Small Integer	2	0	1; 2; 3; 4
132	PCTDEC	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
133	PCTCON	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
134	PCTLT	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
135	PCTPL	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
136	PCTSB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
137	PCTSW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
138	PCTFB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
139	PCTAW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
140	PCTBW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
141	PCTPB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
142	UPCTDEC	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
143	UPCTCON	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
144	UPCTLT	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
145	UPCTPL	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
146	UPCTSB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
147	UPCTSW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
148	UPCTFB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
149	UPCTAW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
150	UPCTBW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
151	UPCTPB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
152	STD_BCG	String	2	0	CD; CM; CX; DC; DX; XX
153	STD_CC	String	1	0	A; B; C; D; M; X
154	STD_ORIGIN	Small Integer	2	0	0; 1720; 1730; 1740; 1750; 1760; 1770; 1780; 1790; 1800; 1810; 1820; 1830; 1840; 1850; 1860; 1870; 1880; 1885; 1890; 1900; 1902; 1910; 1920; 1930; 1940; 1950; 1960; 1970; 1973; 1974; 1975; 1976; 1977; 1978; 1979; 1980; 1981; 1982; 1983; 1984; 1985; 1986;

Index	Name	Type	Length	Decimals	Values
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156	STD_AGE5	Small Integer	2	0	1; 2; 3; 4; 5; 6; 7; 8; 10; 12; 14; 16; 18; 20; 22; 24; 25; 26; 28; 30; 32; 34; 36; 38; 40; 42; 44; 46; 48; 50; 52; 54; 56; 58
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160	STD_SP1PER	Small Integer	2	0	0; 3; 4; 5; 6; 7; 8; 9; 10
161	STD_PCTCON	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
162	STD_PCTDEC	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
163	STD_PCTLT	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
164	STD_PCTPL	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
165	STD_PCTSB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
166	STD_PCTSW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
167	STD_PCTAW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
168	STD_PCTBW	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
169	STD_PCTPB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
170	STD_PCTFB	Small Integer	2	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
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Index	Name	Type	Length	Decimals	Values
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183	WEYCO_GDP_O PENNUM	String	20	0	<null>; <empty>; 1000; 1001; 1002; 1004; 1005; 1006; 1007; 1008; 1009; 1010; 1011; 1013; 1014; 1015; 1016; 1017; 1018; 1019; 1020; 1021; 1022; 1024; 1025; 1026; 1027; 1028; 1029; 1030; 1031; 1032; 1033; 1035; 1036; 1037; 1038; 1039; 1040; 1041; 1042; 1043; 1044; 1045; 1046; 1047; 1048; 1050; 1051; 1052; 1053; 1054; 1055; 1057; 1058; 1059; 1060; 1061; 1062; 1063; 1064; 1065; 1066; 1067; 1068; 1069; 1070; 1071; 1072; 1074; 1075; 1076; 1077; 1078; 1079; 1080; 1081; 1082; 1083; 1084; 1085; 1086; 1087; 1088; 1090; 1091; 1094; 1095; 1096; 1097; 1098; 1099; 1100; 1101; 1102; 1106; 1107; 1108; 1109; 1112; ...
184	WEYCO_GDP_D ATE	Date	8	0	<null>; 1/1/2014; 12:00:00 AM
185	WEYCO_GDP_P RESENT	Small Integer	2	0	<null>; 0; 1
186	AINS_DESI_OPE NNUM	String	20	0	<null>; <empty>; 1000; 1001; 1002; 1004; 1008; 1011; 1014; 1015; 1016; 1018; 1020; 1021; 1022; 1024; 1025; 1026; 1027; 1028; 1029; 1030; 1031; 1032; 1034; 1036; 1037; 1038; 1041; 1042; 1043; 1044; 1045; 1046; 1047; 1049; 1050; 1051; 1052; 1053; 1055; 1056; 1057; 1058; 1059; 1061; 1065; 1066; 1067; 1068; 1071; 1073; 1074; 1075; 1076; 1077; 1080; 1084; 1085; 1086; 1088; 1089; 1090; 1091; 1092; 181; 182; 183; 184; 185; 188; 191; 192; 195; 196; 197; 200; 203; 205; 206; 207; 208; 209; 210; 212; 213; 216; 217; 223; 224; 226; 227; 228; 229; 231; 235; 236; 237; 238; 239; ...
187	AINS_DESI_DAT E	Date	8	0	<null>; 1/1/2014; 12:00:00 AM
188	AINS_DESI_PRE SENT	Small Integer	2	0	<null>; 0; 1
189	AINS_HARV_OP ENNUM	String	20	0	<null>; <empty>; 6050672536; 6050672658; 6050680281; 6050680485;

Index	Name	Type	Length	Decimals	Values
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190	AINS_HARV_DATE	Date	8	0	<null>; 1/12/2010; 1/15/2010; 1/18/2010; 1/20/2010; 1/29/2010; 1/5/2010; 1/8/2010; 10/20/2009; 10/28/2009; 10/30/2009; 11/20/2009; 11/26/2009; 11/27/2009; 12/11/2009; 12/17/2009; 12/28/2009; 12/29/2009; 12/30/2009; 12/31/2009; 12/9/2009; 12:00:00 AM; 2/1/2010; 2/10/2010; 2/5/2010; 2/6/2020; 3/10/2010; 3/11/2010; 3/4/2010; 3/8/2010; 8/19/2009; 8/21/2009; 9/17/2009; 9/19/2009; 9/21/2009; 9/29/2009; 9/8/2009
191	AINS_HARVEST_PRESENT	Small Integer	2	0	<null>; 0; 1
192	TOLKO_BLKS_OPENNUM	String	20	0	<null>; <empty>; 6050750629; 6050751802; 6060750105; 6060750151; 6060750276; 6060751247; 6060751371
193	TOLKO_BLKS_DATE	Date	8	0	<null>; 1/1/2014; 12:00:00 AM
194	TOLKO_BLKS_PRESENT	Small Integer	2	0	<null>; 0; 1
195	SHS_PRESENT	Small Integer	2	0	<null>; 0; 1
196	PRIOR_CODE	String	10	0	<null>; <empty>; 1; 2; 3; high; pl only
197	HARV_SOURCE	String	10	0	<null>; <empty>; otherC; pl_clips; sw_clips
198	DUNES_CODE	Small Integer	2	0	0; 1
199	MPB_KILL	String	1	0	0; 1
200	POLY_NUM	Integer	4	0	<skipped>
201	CF	Integer	4	0	-1; 0; 1
202	SSI	Integer	4	0	-1; 0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12;

Index	Name	Type	Length	Decimals	Values
					13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 31; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70; 71; 72; 73; 74; 75; 76; 77; 79; 81
203	SSI_CF	Integer	4	0	-1; 0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 31; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70; 71; 72; 73; 74; 75; 76; 77; 79; 81
204	PINE_PER	Integer	4	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
205	CON_PER	Integer	4	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
206	PINE_PERC	Integer	4	0	0; 10; 11; 12; 14; 16; 20; 22; 25; 28; 30; 33; 37; 40; 42; 44; 50; 55; 57; 60; 62; 66; 70; 71; 75; 77; 80; 83; 85; 87; 88; 90; 100
207	MPB_THEME	String	10	0	AAH; ABH; ACM; ADL; BAH; BBH; BBM; BCL; BCM; BDL; CBL; CBM; CCL; CDL; DBL; DCL; DDL; ECL; EDL; ZZ
208	MPB_THEME2	String	10	0	AAHD; ABHD; ACM5; ACM6; ACM7; ACM8; ACM9; ACMD; ACMX; ADL1; ADL2; ADL3; ADL4; ADL5; ADL6; ADL7; ADL8; ADL9; ADLD; ADLX; BAHD; BBHD; BBMD; BCL5; BCL6; BCL7; BCL8; BCL9; BCLD; BCLX; BCM5; BCM6; BCM7; BCM8; BCM9; BCMD; BCMX; BDL1; BDL2; BDL3; BDL4; BDL5; BDL6; BDL7; BDL8; BDL9; BDLD; BDLX; CBLD; CBMD; CCL5; CCL6; CCL7; CCL8; CCL9; CCLD; CCLX; CDL1; CDL2; CDL3; CDL4; CDL5; CDL6; CDL7; CDL8; CDL9; CDLD; CDLX; DBLD; DCL5; DCL6; DCL7; DCL8; DCLD; DDL1; DDL2; DDL3; DDL4; DDL5; DDL6; DDL7; DDL8; DDL9; DDLD; DDLX; ECL5; ECLD; EDL1; EDL2; EDL3; EDL4; EDL5; EDL6; EDL9; EDLD; EDLX; ZZ
209	MPB_THEME3	String	10	0	AAHDX; ABHD8; ABHD9; ABHDX; ACM5; ACM6; ACM7; ACM8; ACM9;

Index	Name	Type	Length	Decimals	Values
					ACMD6; ACMD7; ACMD8; ACMD9; ACMDX; ACMX; ADL1; ADL2; ADL3; ADL4; ADL5; ADL6; ADL7; ADL8; ADL9; ADLD6; ADLD7; ADLD8; ADLD9; ADLDX; ADLX; BAHDX; BBHD9; BBHDX; BBMD8; BBMD9; BBMDX; BCL5; BCL6; BCL7; BCL8; BCL9; BCLD6; BCLD7; BCLD8; BCLD9; BCLDX; BCLX; BCM5; BCM6; BCM7; BCM8; BCM9; BCMD6; BCMD7; BCMD8; BCMD9; BCMDX; BCMX; BDL1; BDL2; BDL3; BDL4; BDL5; BDL6; BDL7; BDL8; BDL9; BDLD6; BDLD7; BDLD8; BDLD9; BDLDX; BDLX; CBLD9; CBLDX; CBMD9; CBMDX; CCL5; CCL6; CCL7; CCL8; CCL9; CCLD6; CCLD7; CCLD8; CCLD9; CCLDX; CCLX; CDL1; CDL2; CDL3; CDL4; CDL5; CDL6; CDL7; CDL8; CDL9; CDLD6; CDLD7; CDLD8; ...
210	MPB_ZONES	Small Integer	2	0	0; 1; 2; 3
211	DX_TRANSIT	String	5	0	<blank>; AW
212	Shape_Length	Double	8	0	<skipped>
213	Shape_Area	Double	8	0	<skipped>
214	SADDLEZONE	String	4	0	CENT; EAST; WEST; X
215	MPBZ2_PBLK	String	10	0	<null>; <empty>; 1to2; PD4
216	PFMS_SHS	String	10	0	<null>; PREBLOCK
217	AIN_BLOB	String	10	0	<null>; LOCKED
218	WEY_PREB1	String	15	0	<null>; PREBLOCK
219	WEY_PREB2	String	15	0	<null>; PREBLOCK
220	AIN_PREB1	String	15	0	<null>; CM; DMW; LF
221	WEY_BLOB	String	15	0	<null>; LOCKED
222	WATERSHED2	String	15	0	A0813EF06; A08C11A04; A08C11A05; A08C11A06; A08C11A07; A08C11C03A; A08C11C03B; A08C11D02; A08C11D03; A08C11D05; A08C11D06; A08C11E01; A08C11E02; A08C11E03; A08C11E04; A08C11E05; A08C11E07; A08C11E08; A08C11E09; A08C11E10; A08C11E11; A08C11E12; A08C11E13; A08C11E25; A08D11C04; A08D12B02; A08D12B03; A08D12B04;

Index	Name	Type	Length	Decimals	Values
					A08D12D03; A08D12D04; A08D26D02; A08E13A01; A08E13A02; A08E13A03; A08E13A04; A08E13A05; A08E13A06; A08E13B01; A08E13B02; A08E13B03; A08E13B04; A08E13B05A; A08E13B05B; A08E13B06A; A08E13B06B; A08E13B07; A08E13B08; A08E13C01; A08E13C02; A08E13C03; A08E13C04; A08E13C05; A08E13D01; A08E13D02; A08E13D03; A08E13D04; A08E13D05; A08E13D06; A08E13D07; A08E13D08; A08E13D09; A08E13D10; A08E13D11; A08E13D12; A08E13E01; A08E13E02; A08E13E03; A08E13E04; A08E13E05; A08E13E06; A08E13E07; A08E13E08; A08E13E09; A08E13E10; A08E13F01A; A08E13F01B; A08E13F01D; A08E13F03; A08E13F04; A08E13F06; A09C10A01A; A09C10A01B; A09C10A01C; A09C10A01D; A09C10A01E; A09C10A01F; A09C10A25; A09C10A42; A09C10A44; A09C10A45; A09C10A46; A09C10B01; A09C10B02; A09C10B03; A09C10M04; A09C10N01; A09C10N03; A09C10N04; A09C10N05; A09C10N06A; ...

8.2   Woodstock / Stanley Shapefile

File name: wst_file_nsr.dbf
Number of records: 919,983

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1	FID	OID	4	0	<skipped>
2	Shape	Geometry	0	0	<skipped>
3	REMSOFT_ID	Integer	9	0	<skipped>
4	REASONCODE	String	15	0	<empty>; Flows; Greenup; Impossible; In Solution; Inoperable; InoperableLock; InoperableSp; Not Needed
5	BESTPERIOD	Small Integer	3	0	0; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16
6	OBJECTID	Integer	9	0	<skipped>
7	DGIS_LINK	Integer	9	0	<skipped>
8	THEME1	String	3	0	A; CM; LF; MIX; SA; UF
9	THEME2	String	7	0	CENT; EAST; WEST; Zone1S; Zone2; Zone3
10	THEME3	String	3	0	ALP; LF; MIX; UF
11	THEME4	String	2	0	CD; CM; CX; DC; DX
12	THEME5	Small Integer	4	0	1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 40; 50
13	THEME6	Small Integer	4	0	0; 1
14	THEME7	Small Integer	4	0	2; 3; 4
15	THEME8	String	3	0	MGD; NAT
16	THEME9	String	6	0	LNG; LNG_AA; N; NRW; NRW_AA; RRC; RRC_AA
17	THEME10	String	10	0	AAHDX; ABHD8; ABHD9; ABHDX; ACM5; ACM6; ACM7; ACM8; ACM9; ACMD6; ACMD7; ACMD8; ACMD9; ACMDX; ACMX; ADL1; ADL2; ADL3; ADL4; ADL5; ADL6; ADL7; ADL8; ADL9; ADLD6; ADLD7; ADLD8; ADLD9; ADLDX; ADLX; BAHDX; BBHD9; BBHDX; BBMD8; BBMD9; BBMDX; BCL5; BCL6; BCL7; BCL8; BCL9; BCLD6; BCLD7; BCLD8; BCLD9; BCLDX; BCLX; BCM5; BCM6; BCM7; BCM8; BCM9; BCMD6; BCMD7;

Index	Name	Type	Length	Decimals	Values
					BCMD8; BCMD9; BCMDX; BCMX; BDL1; BDL2; BDL3; BDL4; BDL5; BDL6; BDL7; BDL8; BDL9; BDLD6; BDLD7; BDLD8; BDLD9; BDLDX; BDLX; CBLD9; CBLDX; CBMDX; CCL5; CCL6; CCL7; CCL8; CCL9; CCLD6; CCLD7; CCLD8; CCLD9; CCLDX; CCLX; CDL1; CDL2; CDL3; CDL4; CDL5; CDL6; CDL7; CDL8; CDL9; CDLD6; CDLD7; CDLD8; CDLD9; ...
18	THEME11	String	4	0	0; 1; 0; 100; 60; 70; 80; 90
19	STD_AGE5	Small Integer	4	0	1; 2; 3; 4; 5; 6; 7; 8; 10; 12; 14; 16; 18; 20; 22; 24; 25; 26; 28; 30; 32; 34; 36; 38; 39; 40; 42; 44; 46; 48; 50; 52; 54; 56; 58
20	AREA_HA	Double	19	0	<skipped>
21	CUTBLK	String	1	0	<empty>; P; Y
22	MPB_THEME	String	10	0	AAH; ABH; ACM; ADL; BAH; BBH; BBM; BCL; BCM; BDL; CBL; CBM; CCL; CDL; DBL; DCL; DDL; ECL; EDL; ZZ
23	MPB_THEME2	String	10	0	AAHD; ABHD; ACM5; ACM6; ACM7; ACM8; ACM9; ACMD; ACMX; ADL1; ADL2; ADL3; ADL4; ADL5; ADL6; ADL7; ADL8; ADL9; ADLD; ADLX; BAHD; BBHD; BBMD; BCL5; BCL6; BCL7; BCL8; BCL9; BCLD; BCLX; BCM5; BCM6; BCM7; BCM8; BCM9; BCMD; BCMX; BDL1; BDL2; BDL3; BDL4; BDL5; BDL6; BDL7; BDL8; BDL9; BDLD; BDLX; CBLD; CBMD; CCL5; CCL6; CCL7; CCL8; CCL9; CCLD; CCLX; CDL1; CDL2; CDL3; CDL4; CDL5; CDL6; CDL7; CDL8; CDL9; CDLD; CDLX; DBLD; DCL5; DCL6; DCL7; DCL8; DCLD; DDL1; DDL2; DDL3; DDL4; DDL5; DDL6; DDL7; DDL8; DDL9; DDLD; DDLX; ECL5; ECLD; EDL1; EDL2; EDL3; EDL4; EDL5; EDL6; EDL9; EDLD; EDLX; ZZ
24	MPB_THEME3	String	10	0	AAHDX; ABHD8; ABHD9; ABHDX; ACM5; ACM6; ACM7; ACM8; ACM9; ACMD6; ACMD7; ACMD8; ACMD9; ACMDX; ACMX; ADL1; ADL2; ADL3;

Index	Name	Type	Length	Decimals	Values
					ADL4; ADL5; ADL6; ADL7; ADL8; ADL9; ADLD6; ADLD7; ADLD8; ADLD9; ADLDX; ADLX; BAHDX; BBHD9; BBHDX; BBMD8; BBMD9; BBMDX; BCL5; BCL6; BCL7; BCL8; BCL9; BCLD6; BCLD7; BCLD8; BCLD9; BCLDX; BCLX; BCM5; BCM6; BCM7; BCM8; BCM9; BCMD6; BCMD7; BCMD8; BCMD9; BCMDX; BCMX; BDL1; BDL2; BDL3; BDL4; BDL5; BDL6; BDL7; BDL8; BDL9; BDLD6; BDLD7; BDLD8; BDLD9; BDLDX; BDLX; CBLD9; CBLDX; CBMD9; CBMDX; CCL5; CCL6; CCL7; CCL8; CCL9; CCLD6; CCLD7; CCLD8; CCLD9; CCLDX; CCLX; CDL1; CDL2; CDL3; CDL4; CDL5; CDL6; CDL7; CDL8; CDL9; CDLD6; CDLD7; CDLD8; ...
25	MPB_ZONE	String	10	0	0; 1; 2; 3
26	MPB_KILL	Small Integer	4	0	0; 1
27	DX_TRANSIT	String	5	0	<empty>; AW
28	CF	Small Integer	4	0	-1; 0; 1
29	SSI	Small Integer	4	0	-1; 0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 31; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70; 71; 72; 73; 74; 75; 76; 77; 79; 81
30	SSI_CF	Small Integer	4	0	-1; 0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 25; 26; 27; 28; 29; 30; 31; 32; 33; 34; 35; 36; 37; 38; 39; 40; 41; 42; 43; 44; 45; 46; 47; 48; 49; 50; 51; 52; 53; 54; 55; 56; 57; 58; 59; 60; 61; 62; 63; 64; 65; 66; 67; 68; 69; 70; 71; 72; 73; 74; 75; 76; 77; 79; 81
31	PINE_PER	Double	19	0	0.0; 1.0; 2.0; 3.0; 4.0; 5.0; 6.0; 7.0; 8.0; 9.0; 10.0
32	CON_PER	Double	19	0	0.0; 1.0; 2.0; 3.0; 4.0; 5.0; 6.0; 7.0; 8.0; 9.0; 10.0
33	PINE_PERC	Double	19	0	0.0; 10.0; 11.0; 12.0; 14.0; 16.0; 20.0;

Index	Name	Type	Length	Decimals	Values
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34	SHS_PRESEN	Integer	9	0	0; 1
35	REG_PATH	String	3	0	MGD; NAT
36	WORKING_AR	String	25	0	<empty>; Amerada East; Amerada South; Amerada West; Bad Heart River; Bald Mountain; Basil Ridge; Bay Tree; Big Mountain; Boone Lake; Bowen North; Burnt River; CFO Ridge; Campbell Creek; Central Narraway; Central Ridge; Chaleur Valley; Chinook Valley; Copton Tower; Dimond Dick; East Iroquois Creek; Gordondale; Grizzly Creek; Haglund Creek; Hammerhead; Hat Mountain; Henning Line; Hidding Creek; Hilltop Lake; Jackfish Lake; Jackfish Lake West; Kakwa Tower; Kakwa West South; Kistuan River; Lick Creek; Lingrell Pit; Lynx Creek; Muddy Creek; Nisby; North Musreau; North Narraway; Nose Escarpment; Nose Lake; Nose Mountan Basin; Nose Ridge; Odum Ridge; Pine Ridges; Pinto North; Pinto South; Porcupine; Prairie Creek North; Prairie Creek South; Rats Ass; Redrock Creek; Route Creek; Sandbar Creek; Seafort; Sheep Creek; Shetler; Smoky North; Smoky South; Snaky Creek; South Musreau; South Narraway; Stetson Creek; Stony Creek; The Beach; Torrens Tower; Two Lakes; Unocal; Valley Creek; Walton Mountain; Wapiti; Webster; West Iroquois Creek; West Torrens; Wolf Creek
37	FMA_CODE	String	1	0	<empty>; P
38	FMU_CODE	String	5	0	<empty>; G16
39	YLD_STRATA	Small Integer	4	0	1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 40; 50
40	NSR_CODE	String	3	0	A; CM; DMW; LF; M; SA; UF
41	NSR_YC	String	3	0	ALP; CM; LF; MIX; UF
42	STD_BCG	String	2	0	CD; CM; CX; DC; DX

Index	Name	Type	Length	Decimals	Values
43	STD_CC	String	1	0	A; B; C; D; M
44	STD_PCTCON	Small Integer	4	0	0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10
45	STD_SP1	String	2	0	<empty>; AW; BW; FA; FB; LT; PB; PL; SB; SE; SW
46	STD_SP2	String	2	0	<empty>; AW; BW; FA; FB; LT; PB; PL; SB; SE; SW
47	GRAZING	Small Integer	4	0	0; 1
48	FOR_TYPE	Small Integer	4	0	2; 3; 4
49	CMZ_CODE	String	6	0	LNG; LNG_AA; N; NRW; NRW_AA; RRC; RRC_AA
50	TSA_COST_Z	String	20	0	<empty>; 1800 Timber Berth; Amerada; Bowen; Bull Creek; Calahoo; Chicken Creek; Chinook Ridge; Daniel Creek; Hammerhead; Kakwa Tower; Kakwa West; Lingrell; Lynx Creek; Musreau; Narraway; Nose Mountain; Pine Rat; Pinto; Pinto Cut Across; Prairie Creek; Redrock; Saddle Hills East; Saddle Hills North; Saddle Hills South; Sherman; Wapiti; Wilson Lake; Winyandy Flats
51	HEIGHT	Small Integer	4	0	<skipped>
52	TYPE	String	15	0	1. Dispositions; 2. Non-Forested; 3. Buffers; 4. Subjective; 5. Productive
53	NETLABEL	String	30	0	1. Anthropogenic Non-Vegetated; 1. PNTs; 1. Seismic Lines; 1. Steep Slopes; 10. MPB infestation; 2. Larch; 2. Naturally Non-Vegetated; 2. River Buffer; 2. Unique Areas; 3. Black Spruce; 3. Lake Buffer; 3. Trumpeter Swan Areas; 4. 100m Buffer; 4. A-Density DX Stands; 4. Landuse Dispositions; 5. 60m Buffer; 6. 30m Buffer; 7. Range Improvement; 8. Potentially Productive; 9. Dunes; CD; CX; DC; DX; xCOMP
54	HARV_SOURC	String	10	0	<empty>; otherC; pl_clips; sw_clips
55	HRV_RULE	String	3	0	<empty>; R1A; R1B; R2; R6; R7A; R7B; R7C; R8; R9
56	HRV_DATE	Small Integer	4	0	0; 1850; 1900; 1920; 1930; 1940; 1950; 1960; 1970; 1973; 1974; 1975; 1976; 1977; 1978; 1979; 1980; 1981; 1982; 1983; 1984; 1985; 1986; 1987; 1988;

Index	Name	Type	Length	Decimals	Values
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57	LAND_STAT	String	4	0	<empty>; UNIQ
58	RES_STAT	String	4	0	<empty>; INOP; LAKE; RIVR; SEIS; STM1; STM2; STM3; SWAN
59	DEL	String	10	0	<empty>; ADENS; ANTHNONVEG; BSPRUCE; LARCH; NATNONVEG
60	SADDLEZONE	String	4	0	CENT; EAST; WEST; X
61	OPEN_NUM	String	11	0	<empty>; 1000; 1001; 1002; 1004; 1005; 1006; 1007; 1008; 1009; 1010; 1011; 1013; 1014; 1015; 1016; 1017; 1018; 1019; 1020; 1021; 1022; 1024; 1025; 1026; 1027; 1028; 1029; 1030; 1031; 1032; 1033; 1034; 1035; 1036; 1037; 1038; 1039; 1040; 1041; 1042; 1043; 1044; 1045; 1046; 1047; 1048; 1049; 1050; 1051; 1052; 1053; 1054; 1055; 1056; 1057; 1058; 1059; 1060; 1061; 1062; 1063; 1064; 1065; 1066; 1067; 1068; 1069; 1070; 1071; 1072; 1073; 1074; 1075; 1076; 1077; 1078; 1079; 1080; 1081; 1082; 1083; 1084; 1085; 1086; 1087; 1088; 1089; 1090; 1091; 1092; 1094; 1095; 1096; 1097; 1098; 1099; 1100; 1101; 1102; ...
62	MPBZ2_PBLK	String	10	0	<empty>; 1to2; PD4
63	PFMS_SHS	String	10	0	<empty>; PREBLOCK
64	WEY_PREB1	String	10	0	<empty>; PREBLOCK
65	WEY_PREB2	String	10	0	<empty>; PREBLOCK
66	AIN_PREB1	String	10	0	<empty>; PREBLOCK
67	WEY_BLOB	String	10	0	<empty>; LOCKED
68	AIN_BLOB	String	10	0	<empty>; LOCKED
69	H_LAYER	String	1	0	N; Y
70	FINAL_CLAS	String	11	0	<empty>; 0; 100; 60; 70; 80; 90
71	SHAPE_LENG	Double	19	0	<skipped>
72	SHAPE_AREA	Double	19	0	<skipped>
73	PREBLOCK	String	4	0	<empty>; P; Y
74	ACTION	String	2	0	<empty>; 1; 2; 3; 4; 5

Index	Name	Type	Length	Decimals	Values
75	BLOCK	String	11	0	\<skipped>
76	CUT_PERIOD	String	2	0	\<empty>; -1; -2; -3; 0; 1; 10; 11; 12; 13; 14; 2; 3; 4; 5; 6; 7; 8; 9
77	STANLOCK	String	10	0	\<empty>; _LOCK 14; _LOCK 2; _LOCK 4
78	PREBLK_O	String	4	0	\<empty>; P; Y
79	ACT_O	String	2	0	\<empty>; 2; 4; 5
80	BLK_O	String	11	0	\<empty>; \<empty>; \<empty>; \<empty>; B1000201; B1000234; B1000235; B1000236; B1000237; B1000238; B1000239; B1000240; B1000263; B1000264; B1000265; B1000266; B1000268; B1000269; B1000270; B1000271; B1000272; B1000285; B1000292; B1000293; B1000294; B1000295; B1000296; B1000297; B1000298; B1000301; B1000302; B1000304; B1000309; B1000310; B1000318; B1000319; B1000320; B1000321; B1000322; B1000341; B1000342; B1000343; B1000344; B1000528; B1000529; B1000530; B1000702; B1000703; B1000704; B1000705; B1000706; B1001316; B1001404; B1001405; B1001511; B1001513; B1001514; B1001515; B1001520; B1001523; B1001678; B1001694; B1001696; B1001698; B1001719; B1001720; B1001723; B1001724; B1001727; B1001728; B1001735; B1001736; B1001737; B1001738; B1001739; B1001740; B1001781; B1001783; B1001784; B1001790; B1001791; B1001797; B1001798; B1001817; B1001818; B1001819; B1001820; B1001821; B1001838; B1001843; B1001852; B1001853; B1001854; B1001855; B1001856; B1001867; B1001871; B1001872; B1001873; B1001882; ...
81	CUTPD_O	String	2	0	\<empty>; -1; -2; -3; 0; 1; 2; 3; 4
82	STANLK_O	String	10	0	\<empty>; _LOCK 2; _LOCK 4
83	CUTPERIODS	String	2	0	\<empty>; -1; -2; -3; 0; 1; 2; 3
84	PREBLK_N	String	4	0	\<empty>; Y

Index	Name	Type	Length	Decimals	Values
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86	BLK_N	String	11	0	<empty>; B1000201; B1000234; B1000235; B1000236; B1000237; B1000238; B1000239; B1000240; B1000263; B1000264; B1000265; B1000266; B1000268; B1000269; B1000270; B1000271; B1000272; B1000285; B1000292; B1000293; B1000294; B1000295; B1000296; B1000297; B1000298; B1000301; B1000302; B1000304; B1000309; B1000310; B1000318; B1000319; B1000320; B1000321; B1000322; B1000341; B1000342; B1000343; B1000344; B1000528; B1000529; B1000530; B1000702; B1000703; B1000704; B1000705; B1000706; B1001316; B1001404; B1001405; B1001511; B1001513; B1001514; B1001515; B1001520; B1001523; B1001678; B1001694; B1001696; B1001698; B1001719; B1001720; B1001723; B1001724; B1001727; B1001728; B1001735; B1001736; B1001737; B1001738; B1001739; B1001740; B1001781; B1001783; B1001784; B1001790; B1001791; B1001797; B1001798; B1001817; B1001818; B1001819; B1001820; B1001821; B1001838; B1001843; B1001852; B1001853; B1001854; B1001855; B1001856; B1001867; B1001871; B1001872; B1001873; B1001882; B1001883; B1001884; B1001885; ...
87	CUTPD_N	String	2	0	<empty>; 1; 2
88	STANLK_N	String	10	0	<empty>

9. LAND BASE SUMMARY OF UNIQUE NETDOWN CATEGORIES

Table 11   Land Base Summary by Unique Netdown Categories for the FMA*

Category	FMA Non GRL	FMA GRL	FMA Total	Non-FMA Non GRL	Non-FMA GRL	Non-FMA Total	Land Base Total
1. Dispositions							
1. PNTs	4,245	0	4,245	85	0	85	4,330
2. Unique Areas	163	0	163	38	0	38	200
3. Trumpeter Swan Areas	3,969	0	3,969	566	0	566	4,535
4. Landuse Dispositions	41,132	0	41,132	707	275	983	42,115
Sub-Total	**49,508**	**0**	**49,508**	**1,396**	**275**	**1,671**	**51,179**
2. Non-Forested							
1. Anthropogenic Non-Vegeta	15,205	0	15,206	430	236	666	15,872
2. Naturally Non-Vegetated	13,518	0	13,518	1,236	82	1,319	14,837
3. Anthropogenic Vegetated	7,924	0	7,924	3,170	681	3,851	11,775
4. Non-Forested Vegetated	26,183	0	26,183	1,020	1,102	2,122	28,305
Sub-Total	**62,830**	**1**	**62,831**	**5,857**	**2,101**	**7,958**	**70,789**
3. Buffers							
1. Seismic Lines	9,062	1	9,063	5	7	11	9,074
2. River Buffer	16,785	0	16,785	251	218	470	17,254
3. Lake Buffer	2,225	0	2,225	356	0	356	2,581
4. 100m Buffer	2,232	0	2,232	960	0	960	3,192
5. 60m Buffer	19,291	0	19,291	1,114	267	1,381	20,671
6. 30m Buffer	60,739	0	60,739	636	546	1,182	61,921
Sub-Total	**110,333**	**1**	**110,334**	**3,321**	**1,038**	**4,359**	**114,693**
4. Subjective							
1. Steep Slopes	53,617	0	53,617	673	10	684	54,301
2. Larch	1,717	0	1,717	0	0	0	1,717
3. Black Spruce	23,025	0	23,025	1,290	456	1,745	24,770
4. A-Density DX Stands	8,873	0	8,873	111	213	324	9,196
5. Unidentified Opening	18,000	0	18,000	288	323	612	18,612
6. Horizontal Stands	60,780	1	60,780	5,857	2,087	7,945	68,724
7. Range Improvement	5	0	5	0	0	0	5
8. Potentially Productive	0	0	0	0	16	16	16
9. Dunes	5,847	0	5,847	0	3	3	5,850
10. MPB infestation	1,985	0	1,985	2,507	0	2,507	4,492
Sub-Total	**173,849**	**1**	**173,849**	**10,727**	**3,108**	**13,835**	**187,684**

* To replicate netdown summaries, the following d_resultant3 fields should be used: [FMA_CODE], [TYPE], [NETLABEL], [GRAZING], summarized by [AREA_HA].