

# NW Data Sharing Network: Data Integration Report



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# 1 EXECUTIVE SUMMARY

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This report discusses the structure of the data sets to be incorporated into the NorthWest Data Sharing Network project, and details the issues and questions, which need to be addressed.

## 2 OVERVIEW OF DATA

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Data sets were received from a total of nine providers:

- The Ministry of Sustainable Resource Management
- The Ministry of Forests Timber Sales Program
- Tesera Systems Inc.
- Six forestry companies:
  - Canadian Forest Products (CANFOR)
  - Pacific Inland Resources (PIR)
  - Houston Forest Products (HFP)
  - West Fraser Mills Ltd – Fraser lakes Sawmills Operation (Fraser Lake)
  - L & M Lumber (L & M)
  - Babine Forest Products (Babine)

Any class of data that was received from more than one provider must be described using an integrated data structure.

There are seven classes of data to be integrated:

- EXISTING BLOCKS - Existing local blocks and activities required for SFM monitoring
- FUTRE BLOCKS - Future blocks and proposed activities required for SFM planning
- EXISTING ROADS - Existing local roads and activities required for SFM monitoring
- FUTURE ROADS - Future roads and activities required for SFM planning including drainage structures
- HYDROLOGY - Existing local hydrology and fish habitat and inventory status required for SFM planning
- FOREST RISK - Forest health mountain pine beetle risk rating, spruce bark beetle risk rating
- FOREST OVERVIEW - Forest health overview, ground probe, and treatment data for SFM monitoring

The table below indicates which partners provided the seven classes of data that require integration.

Data Provided?	CANFOR	PIR	HFP	Fraser Lake	L & M	Babine	MoF Timber Sales
Existing Blocks	YES	YES	YES	YES	YES	YES	YES
Future Blocks	YES	YES	YES	YES	YES	YES	YES
Existing Roads	YES	YES	YES	YES	YES	YES	YES
Future Roads	YES	YES	YES	YES	YES	YES	YES
Hydrology	YES	YES	YES	YES		YES	YES
Forest Risk	YES			YES		YES	YES
Forest Overview	YES					YES	YES

### 3 INPUT DATA SCHEMAS

---

#### 3.1 Existing Blocks

##### 3.1.1 CANFOR

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Block#	Obsolete - historical attribute used in coverage version of block layer - not maintained by GEO or Genus MapWindow	Number
Block_id	Obsolete - historical attribute used in coverage version of block layer - not maintained by GEO or Genus MapWindow	Number
Transaction_id	CanGIS managed attribute - assigned to all features locked by CanGIS checkout	Alphanumeric (Mostly no data)
Cutb_seq_n	Genus assigned unique value - if non zero MUST link to entry in FOREST.CUT_BLOCK - if Zero - must be treated as exception	Number (500023195)
Old_infoke	Obsolete - historical attribute used in coverage version of block layer - not maintained by GEO or Genus MapWindow	Number (3456)
Feature_area	SDE maintained feature area - considered accurate	Number
Feature-len	SDE maintained feature perimited length - considered accurate	Number
Feature_fid		Number

### 3.1.2 PIR

Level	Description from metadata	Name
1		Text
9		Disturbed Blocks
10		Disturbed Block Text
12		Block Outlines
13		Block Text
25		Blocks with Questions
27		Fraser Lake Block Text
35		PIR Block Boundaries
36		PIR Block Text
42		Leave Areas

### 3.1.3 HFP

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Biogeo#		Number
Biogeo-id		Number
Event-id		Number

### 3.1.4 L & M

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Dla_blk#		Number
Dla_blk-id		Number (unique)
Openno	MOF disturbance number - Use ArcInfo Frequency command to determine	Alphanumeric (093F043 829)
Stat	MOF status - FTG free to Grow IMM immature MAT mature NSR not satisfactorily regenerated	Alphanumeric (NSR)
Licence		Alphanumeric (A16821)
Cp	Cutting Permit Number	Number (191)
Block	Block number - Positive real numbers that are automatically generated	Number
Tenure	BLK = harvest area, various reserve labels - BLK harvested area (NAR) HRA hard retention area IMM immature NCC non commercial cover NP non productive RES reserve RRZ riparian reserve zone VR visual reserve WTP wildlife tree patch	Alphanumeric (NAR, NP, WTP)
Ha		Number
Source	Data source - DP development plan GPS global positioning system SP silviculture prescription TC tight chain TRM trim	Alphanumeric (GPS)
Year		Number (Always 0)

### 3.1.5 Babine

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Harv_blk_#		Number (unique, non-zero)
Harv_blk-id		Number (unique, non-zero)
Poly		Number
Licence		Alphanumeric (A16825)
Cutpermit		Alphanumeric (005, NB)
Block		Number (01)
Status		Alphanumeric (Harvested)
Year		Number (1987)

### 3.1.6 Fraser Lake

Level	Type	Name
12	Polygons and lines	Cutblock
13	Text Nodes	Cutblock Label
30	Polygons	Wildlife Tree Patch
62	Lines	Mapsheets Neatline

### 3.1.7 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Bctsbk#		Number
Bctsbk-id		Number
Restype		Alphanumeric (External)
Tslwtp		Alphanumeric (A70783)
Tsl356		Alphanumeric (A70783)
Status356		Alphanumeric (A Approved)
Tsl		Alphanumeric (A70783)
Status		Alphanumeric (A Approved)
Sourcethm		Alphanumeric (Tsl.dbf)
Open_no		NO DATA
Tsllog		Alphanumeric (A34730-AH-01)
Logged		Alphanumeric (Logged)
Type		Alphanumeric (WTP)

## 3.2 Future Blocks

### 3.2.1 CANFOR

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Block#	Obsolete - historical attribute used in coverage version of block layer - not maintained by GEO or Genus MapWindow	Number (multiple zeros)
Block_id	Obsolete - historical attribute used in coverage version of block layer - not maintained by GEO or Genus MapWindow	Number (multiple zeros)
Transaction_id	CanGIS managed attribute - assigned to all features locked by CanGIS checkout	Alphanumeric Mostly no data
Cutb_seq_n	Genus assigned unique value - if non zero MUST link to entry in FOREST.CUT_BLOCK - if Zero - must be treated as exception	Number (500021695)
Old_infoke	Obsolete - historical attribute used in coverage version of block layer - not maintained by GEO or Genus MapWindow	Number (1063)
Feature_area	SDE maintained feature area - considered accurate	Number
Feature-len	SDE maintained feature perimited length - considered accurate	Number
Feature_fid		Number

### 3.2.2 PIR

Level	Description from metadata	Name
10		Category A Approved Blocks
11		Category A Proposed Blocks xhatch 40
23		Category A Proposed Blocks xhatch 40
24		Text for Level 23

This lookup table does not match the actual data.

### 3.2.3 HFP

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Biogeo#		Number (unique)
Biogeo-id		Number
Event-id		Number

### 3.2.4 L & M

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Dla_problk#		Number (unique)
Dla_problk-id		Number

Openno	MOF disturbance number - Use ArcInfo Frequency command to determine	Alphanumeric (093F075 B)
Stat	MOF status - FTG free to Grow IMM immature MAT mature NSR not satisfactory regenerated	Alphanumeric (AP)
Licence		Alphanumeric (A16821)
Cp	Cutting permit number -	Number (112)
Block	Block number - Positive real numbers that are automatically generated	Number (114)
Tenure	BLK = harvest area, various reserve labels - BLK harvested area (NAR) HRA hard retention area IMM immature NCC non commercial cover NP non productive RES reserve RRZ riparian reserve zone VR visual reserve WTP wildlife tree patch	Alphanumeric (NAR, NP, WTP)
Ha		Number (0.00)
Source	Data source - DP development plan GPS global positioning system SP silviculture prescription TC tight chain TRM trim	Alphanumeric (DP)
Fund		NO DATA
Year		Number (2009)

### 3.2.5 Babine

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Pro_blk#		Number (unique)
Pro_blk-id		Number

Poly		Number
Licence		Alphanumeric (A16823)
Cutpermit		Alphanumeric (324, B)
Block		Number (01)
Status		Alphanumeric (Category A – Approved)

### 3.2.6 Fraser Lake

Level	Description from metadata	Name
20		Block Labels
21		Stand Greened Up
22		Sufficiently Restocked
23		Not Sufficiently Restocked
24		Category 'A' Approved
25		Category 'A' Proposed
62		Mapsheet Neatlines

### 3.2.7 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Bctsbk#		Number (515)
Bctsbk-id		Number (514)

Restype		Alphanumeric (External)
Tslwtp		Alphanumeric (A71050)
Tsl356		Alphanumeric (A71050)
Status356		Alphanumeric (A Approved)
Tsl		Alphanumeric (A71050)
Status		Alphanumeric (A Approved)
Sourcethm		Alphanumeric (Tsl.dbf)
Open_no		NO DATA
Tsllog		Alphanumeric (A34730-AD-03)
Logged		Alphanumeric (Logged)
Type		Alphanumeric (WTP)

### 3.3 Existing Roads

#### 3.3.1 CANFOR

Field Name	Description from metadata	Sample Values
Objectid		Number
Road_seq_nbr	Genus assigned unique value - must have a value for link in Oracle	Number (multiple zeros)
Shape_len		Number

#### 3.3.2 PIR

Level	Description from metadata	Name
8		FC1 Roads
17		FLK Spurs and Text
18		FLK Skid Trails and Text
19		FLK Trails and Text
27		PIR Spurs, Proposed (blk line)
30		PIR Skid Trails
31		PIR Trails
40		FC1 Roads
49		FC1 Roads

### 3.3.3 HFP

Field Name	Description from metadata	Sample Values
Length		Number
Hfproad#		Number (unique)
Hfproad-id		Number (unique)
Roads-id		Alphanumeric (BL34)
F_meas		Number
T_meas		Number
Status		Alphanumeric (Constructed)
Class		Alphanumeric (Operational)
Road_name		Alphanumeric (R07167-14)
Common_name		Alphanumeric (Tahlo Main)

### 3.3.4 L & M

Field Name	Description from metadata	Sample Values
Length		Number
Dla_rd#		Number
Dla_rd-id		Number
Tmrkblk	Timbermark and block concatenation	Alphanumeric (FC5103 2)
Source	Data source - DP development plan GPS global positioning system SP silviculture prescription TC tight chain TRM trim	Alphanumeric (GPS)

Fund		Alphanumeric (LM)
Fcode		Alphanumeric (DA25000110)
Cp		NO DATA
Blk		NO DATA
Roadtype	Roadclass - Blk Rds. = in block roads Access = access roads	Alphanumeric (Access)
Mapk50		NO DATA
Rpermit		Alphanumeric (R01947)
Section	MOF road permit section number	Number (20)
Status		NO DATA
Dlevel		NO DATA
Cyear		Number Mostly no data
Dyear		Number Mostly no data
Year	Year of construction	Always 0

### 3.3.5 Babine

Field Name	Description from metadata	Sample Values
Length		Number
Rds_all#		Number (unique)
Rds_all-id		Number (unique)
Roads_id	North, south, east, west and a numeric assignment	Alphanumeric (EAS1000)
Road_desc	Whether proposed or existing, spur, skid or branch	Alphanumeric (Ex branch)

### 3.3.6 Fraser Lake

Level	Description from metadata	Name
8		MOTH and Other Licensee Roads
15		Fraser Lakes Road Permit
16		Fraser Lakes Road Permit Landing
17		Fraser Lakes Road Permit Kilometer Markings
18		Fraser Lakes Cutblock Road and Landing
19		Fraser Lakes Excavated or Bladed Trail
26		Mapsheet Neatlines

### 3.3.7 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Length		Number
Tsr_rp02#		Number (unique)
Tsr_rp02-id		Number (non-unique)
Road		Alphanumeric (R10447-Sec 46/P1300)
Sum_length		Number
Orcs_file		Alphanumeric (11250-32-8578-02)
Name		Alphanumeric (Cottonwood Road)

Road_type		Alphanumeric (P, ST)
Status		Alphanumeric (Approved, Deactivated, Existing)
Work_type		Alphanumeric (C, D, M, null)
Structures		Alphanumeric (Yes, B@2.41km)
Season		Alphanumeric (A, D, W, null)
Deact_year		Number (1994 or null)
Deact_type		Always N/A
Deact_acce		Alphanumeric (ATV, N, null)
Access_con		Alphanumeric (Gate, No)
Terrain_st		Alphanumeric (I, M, null)
Riparian		Alphanumeric (I, M, null)
Visual_imp		Alphanumeric (I, M, null)
Chr		Alphanumeric (I, M, null)
Soil_erosi		Alphanumeric (I, M, null)
Construct		Number (1988 or null)
Comments		Alphanumeric (p. access to A49866-J-19, null)
Tenure		Alphanumeric (FLSM, FSR)
Fdp_status		Alphanumeric (E or null)
Mapsheet		NO DATA

### 3.4 Future Roads

#### 3.4.1 CANFOR

Field Name	Description from metadata	Sample Values
Objectid		Number
Road_seq_nbr	Genus assigned unique value - must have a value for link in Oracle	Number (unique)
Shape_len		Number

#### 3.4.2 PIR

Level	Type	Name
8		FC1 Roads
17		FLK Spurs and Text
18		FLK Skid Trails and Text
19		FLK Trails and Text
27		PIR Spurs, Proposed (blk line)
30		PIR Skid Trails
31		PIR Trails
40		FC1 Roads
49		FC1 Roads

### 3.4.3 HFP

Field Name	Description from metadata	Sample Values
Length		Number
Hfproad#		Number (unique)
Hfproad-id		Number (unique)
Roads-id		Alphanumeric (WS2370)
F_meas		Number
T_meas		Number
Status		Alphanumeric (Proposed)
Class		Alphanumeric (Skid Trail)
Road_name		Alphanumeric (Skid Trail RE1)
Common_name		Alphanumeric (WS2370)

### 3.4.4 L & M

Field Name	Description from metadata	Sample Values
Length		Number
Dla_prord		Number (unique)
Tmrkblk	Timbermark and block concatenation	Alphanumeric (FC5112 117)
Source	Data source - DP development plan GPS global positioning system SP silviculture prescription TC tight chain TRM trim	Alphanumeric (DP)
Fund		Alphanumeric (LM)

Fcode		Alphanumeric (DA25000110)
Cp	Cutpermit	Number (112)
Blk		Number (117)
Roadtype	Roadclass - Blk Rds. = in block roads Access = access roads	Alphanumeric (Blk Rds.)
Mapk50		NO DATA
Rpermit		Alphanumeric (R09014)
Section	MOF road permit section number	Alphanumeric (K)
Status		Alphanumeric (DP)
Dlevel		NO DATA
Cyear		NO DATA
Dyear		NO DATA
Year	Year of construction	Number (2008)

### 3.4.5 Babine

Field Name	Description from metadata	Sample Values
Length		Number
Rds_all#		Number (unique)
Rds_all-id		Number (unique)
Roads_id	North, south, east, west and a numeric assignment	Alphanumeric (NOR1386)
Road_desc	Whether proposed or existing, spur, skid or branch	Alphanumeric (Prop spur)

### 3.4.6 Fraser Lake

Level	Type	Name
8		MOTH and Other Licensee Roads
15		Fraser Lakes Road Permit
16		Fraser Lakes Road Permit Landing
17		Fraser Lakes Road Permit Kilometer Markings
18		Fraser Lakes Cutblock Road and Landing
19		Fraser Lakes Excavated or Bladed Trail
26		Mapsheet Neatlines

### 3.4.7 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Length		Number
Tsr_rp02#		Number (unique)
Tsr_rp02-id		Number (non-unique)
Road		Alphanumeric (R06299)
Sum_length		Number
Orcs_file		Alphanumeric (11250-32-7697-08)
Name		Alphanumeric (Augier Ling FSR)
Road_type		Alphanumeric (P, ST or null)

Status		Alphanumeric (Proposed)
Work_type		Alphanumeric (C, D, M, null)
Structures		Alphanumeric (Yes, B@2.41km)
Season		Alphanumeric (A, D, W, null)
Deact_year		Number (1994 or null)
Deact_type		Always N/A
Deact_acce		Alphanumeric (ATV, N, null)
Access_con		Alphanumeric (Gate, No)
Terrain_st		Alphanumeric (I, M, null)
Riparian		Alphanumeric (I, M, null)
Visual_imp		Alphanumeric (I, M, null)
Chr		Alphanumeric (I, M, null)
Soil_erosi		Alphanumeric (I, M, null)
Construct		Number (1988 or null)
Comments		Alphanumeric (p. access to A49866-J-19 or null)
Tenure		Alphanumeric (FSR, Community Forest)
Fdp_status		Alphanumeric (E or null)
Mapsheet		NO DATA

### 3.5 Hydrology fish

#### 3.5.1 CANFOR

Field Name	Description from metadata	Sample Values
Objected		Number
Hydroid	Unique feature identifier in the geodatabase ( not implemented )	Always 0
Hydrocode	Unique feature identifier in the geodatabase ( not implemented )	Always blank
Fpc_class_code	FPC stream classification	Alphanumeric (L1, 13, BD, CV)
Fpc_source_code	FPC source for the classification	Alphanumeric (Comp, NP, RPB)
Map_data_source	Data source or method utilized to map stream feature	Alphanumeric (GPS, Trim_1)
Gazetteer	Officially registered GCGNIS published name of the hydrological feature	Alphanumeric (Babine Lake)
Alias_nm	Designated name of the reach or drainage	Alphanumeric (0168-003-wb)
Suppress	Mapped in error and thus require suppression	Number (Always 0.00)
Fish_confi	Presence of fish - yes or no	NO DATA
Fish_speci	Fish species	Alphanumeric (Salmon, Other)
Fish_spe_1	Fish species	NO DATA
Shape_area		Number
Shape_len	SDE maintained feature length	Number

#### 3.5.2 PIR

No lookup table provided, and no obvious useful labels.

### 3.5.3 HFP

Field Name	Description from metadata	Sample Values
Length		Number
H_gps_ck#		Number (unique)
H_gps_ck-id		Number (non-unique)
drainage	Non-classified drainage or area with water in it but not really a flow	Alphanumeric (y, n or null)

### 3.5.4 Babine

Field Name	Description from metadata	Sample Values
Length		Number
B_strm		Number (unique)
B_strm-id		Number (non-unique)
Streams-id		Number (non-unique)
Stream_cla		Alphanumeric (LA, LS, NC)
Loc_src	To track where the stream linework originated	Alphanumeric (U, Trim, Trim_C)
Class_src	To track who assigned the stream classification	Alphanumeric (NP or null)
Surv_type	To track the level of survey completed on the stream	Alphanumeric (Recon or null)
Fish	To track the presence of fish within a stream (FC – Fish confirmed, NFC – No fish confirmed, UN – unknown)	Alphanumeric (FC, NFC, UN)
Name	The name of the stream	NO DATA
Fcode		Alphanumeric (GA24850150)

Source		Alphanumeric (A, D)
Year		Number (1998 or null)
Shape_len		Number

### 3.5.5 Fraser Lake

Level	Type	Name
45	Line	Streams and Lakes
63	Text	Legend Labels

### 3.5.6 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Length		Number
Id		Number (unique)
Record_id		Alphanumeric (Con-427, Cam 178)
Rkey		Number
Afrom		Number
Ato		Number
Str_cla		Alphanumeric (NCD, S4, S6)

### 3.6 Forest Risk

#### 3.6.1 CANFOR

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
F_fc		Number (Always 0)
F_fc-id		Number (Always 0)
Mapstand		Alphanumeric (093L032 98)
Npforestde		NO DATA
Npforestco		Number (Always 0)
Esahigh		Alphanumeric (A, AP, P or null)
Esalow		Alphanumeric (P, R, S, W or null)
Esawildlif		NO DATA
Cardsource		Alphanumeric (CB, FA)
Inputdate		Date (940301)
Prjdate		Date (950101)
Coastinter		NO DATA
U1code		Number (4, 8)
U2code		Number (8, 10)
Inoperabil		NO DATA
Secondcode		NO DATA
Secondspec		NO DATA

Histadjmap		Alphanumeric (093E007)
Colorcode		Number (83)
Map		Alphanumeric (093E097)
Stand		Number (573)
Acres		Number
Mpbh		Alphanumeric (E, H, M or null)
Sbbh		Alphanumeric (E, H, M or null)
Bbbh		Alphanumeric (E, H, M or null)
Pine		Alphanumeric (L, M, S or null)
Spruce		Alphanumeric (L, M, S or null)
Balsam		Alphanumeric (L, M, S or null)
Mpbr		Alphanumeric (H, L, M1, M2 null)
Sbbr		Alphanumeric (H, L, M1, M2 null)
Bbbr		NO DATA
Haz_color		Number (78)

### 3.6.2 Babine

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
Btle_ploy_02		Number (non-unique)

### 3.6.3 Fraser Lake

Level	Type	Name
1	Line	
9	Polygon	

### 3.6.4 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Area		Number (Always 0.0)
Perimeter		Number (Always 0.0)
Abkill_la#		Number (unique)
Abkill_la-id		Number (unique)
Time_name		Alphanumeric (093k004)
Hitnum		Number (non-unique)
Easting		Number
Northing		Number
Fcode		NO DATA
Abkill_tag		NO DATA

### 3.7 Forest Overview

#### 3.7.1 CANFOR

Field Name	Description from metadata	Sample Values
Area		Number
Perimeter		Number
F_fc		Number (Always 0)
F_fc-id		Number (Always 0)
Mapstand		Alphanumeric (093L032 98)
Npforestde		NO DATA
Npforestco		Number (Always 0)
Esahigh		Alphanumeric (A, AP, P or null)
Esalow		Alphanumeric (P, R, S, W or null)
Esawildlif		NO DATA
Cardsource		Alphanumeric (CB, FA)
Inputdate		Date (940301)
Prjdate		Date (950101)
Coastinter		NO DATA
U1code		Number (4, 8)
U2code		Number (8, 10)
Inoperabil		NO DATA
Secondcode		NO DATA
Secondspec		NO DATA

Histadjmap		Alphanumeric (093E007)
Colorcode		Number (83)
Map		Alphanumeric (093E097)
Stand		Number (573)
Acres		Number
Mpbh		Alphanumeric (E, H, M or null)
Sbbh		Alphanumeric (E, H, M or null)
Bbbh		Alphanumeric (E, H, M or null)
Pine		Alphanumeric (L, M, S or null)
Spruce		Alphanumeric (L, M, S or null)
Balsam		Alphanumeric (L, M, S or null)
Mpbr		Alphanumeric (H, L, M1, M2 or null)
Sbbr		Alphanumeric (H, L, M1, M2 or null)
Bbbr		NO DATA
Haz_color		Number (128)

### 3.7.2 Babine

Field Name	Description from metadata	Sample Values
Area		Number (Always 0.0)
Perimeter		Number (Always 0.0)
Prb_mpd		Number (unique)
Prb_mpd-id		Number (unique)
Infestation		Alphanumeric (GPS#794)
Loc		Alphanumeric (NB)
Zatt_		Number
Mc		Number
My1		Number (Always 0 or null)
My2		Number (Always 0 or null)
Site_m3		NO DATA
Z1ha		Alphanumeric (n or y)
Treat		Alphanumeric (NAR, SCC, SPR)
Cmt		Alphanumeric (n, y or null)
Cmt_survey		NO DATA
Str		Alphanumeric (n, y or null)
Stream_ass		NO DATA
Baits		Number
Checked		NO DATA
Comments_g		Alphanumeric (1bait on cmt)

C		NO DATA
N_poc		Number (6082608)
E_poc		Number (331252)
N_site		Number (6082849)
E_site		Number (331056)
Comments		Alphanumeric (drainages)

### 3.7.3 MOF Timber Sales

Field Name	Description from metadata	Sample Values
Area		Number (Always 0.0)
Perimeter		Number (Always 0.0)
Abkill_la#		Number (unique)
Abkill_la-id		Number (non-unique)
Time_name		Alphanumeric (0931050)
Hitnum		Number (non-unique)
Easting		Number
Northing		Number
Fcode		NO DATA
Abkill_tag		NO DATA

## 4 DATA SORTING ISSUES

### 4.1 Existing and Future Data Provided in a Single File

**Issue:** How to determine which features are proposed and which exist, when separate files are not provided and attribution does not seem to differentiate?

<b>Blocks</b>		
<b>Provider</b>	<b>Separable?</b>	<b>Notes</b>
HFP	No	There is no suitable attribute to use for separating the file.
CANFOR	No	There is no suitable attribute to use for separating the file.
MOF Timber Sales	Yes	“Status” attribute has “A Approved”, “A Proposed” or null in its field. This could be suitable for separating the file; however, some “A Proposed” blocks seem to be logged.

<b>Roads</b>		
<b>Provider</b>	<b>Separable?</b>	<b>Notes</b>
HFP	Yes	“Status” attribute has “Constructed”, “Deactivated”, “Located”, “Proposed”, “Unknown” or null in its field.
MOF Timber Sales	Yes	“Status” attribute has “Approved”, “Proposed”, or null in its field.
CANFOR	No	There is no suitable attribute to use for separating the file.
Babine	Yes	“Rd_desc” attribute has a “proposed” reference (ie. “prop spur”), and there are no null values within this data.
Fraser lake	Unknown	Metadata states that the attribute data in layers 15, 16, and 18 should contain a reference to existing or proposed roads. This could be suitable for separating the file.
PIR	Unknown	Metadata states that the attribute data in layer 27 should contain a reference to proposed PIR spurs. This could be suitable for separating the file.

## 4.2 Multiple Data Sets Provided Within The Same File

**Issue:** How to determine which data sets pertain to which layer, and which belong to another layer, when separate files are not provided and attribution does not seem to differentiate?

<b>Forest Risk / Overview</b>		
<b>Provider</b>	<b>Separable?</b>	<b>Notes</b>
MOF Timber Sales	No	There is no suitable attribute to use for separating the file.
CANFOR	No	There is no suitable attribute to use for separating the file.

<b>Existing Trails / Grease Trails</b>		
<b>Provider</b>	<b>Separable?</b>	<b>Notes</b>
Tesera	Yes	“Name” attribute specifies if it is a grease trail. There are no null values within this data.

<b>IFPA Recreation Feature Mapping / Recreation (polygons)</b>		
<b>Provider</b>	<b>Separable?</b>	<b>Notes</b>
Tesera	No	“Source” attribute gives reference to a poly type. There are null values within this data.

## 5 DATA INTEGRATION ISSUES

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- Overall, metadata is very poor
- IGDS data overview:
  - Two providers delivered IGDS format (PIR, Forest Lakes)
  - Metadata is not bad (levels are fully named)
  - Spatial data is predictably terrible
    - For example, frequently blocks are described by non-closing lines
  - IGDS files contain other companies blocks; we suggest keeping only the data that belongs to the provider
- How do we integrate attributes when most of the fields do not appear to match and/or don't contain similar data?
  - Approach A – Inclusive – result is many, many, many fields (80)
  - Approach B – Exclusive – very few common or obviously useful fields (10)
- Is it feasible within the timeframe of this project to contact the data providers to request more information about attribute names and content?
- Is it acceptable to add to all integrated features a field named “provider” which contains the name of the data source?
- There is some overlapping spatial data between companies in the existing blocks data. Is this expected? How do we determine precedence in cases of overlap? (Integrated data sets should not have overlapping features). Not only should we be concerned with determining which data set is the most up-to-date and most accurate, but in cases of overlapping blocks, how do we determine the actual licensee?
- There is lots of spatial overlap for future blocks between companies' data. There are also many blocks outside of the targeted TSAs. Is this expected? Is this allowable or should the data be restricted to Morice and Lakes TSAs?
- There is lots of spatial overlap for existing and future roads between companies. Is this expected? How do we determine precedence in cases of overlap?
- There is lots of spatial overlap between companies' data. Is this expected? We ideally may want to use MSRM (TRIM) water features, but add the forest companies' attribution (fish habitat and inventory) to the features. A conflation problem?

(Who is the custodian of water features? MSRM?)

- What is relevant data for forest overview compared to forest risk? We have little explanation as to what this data is describing.
  - Forest Risk – ratings of spruce bark and mountain pine beetle risk
  - Forest Overview – an overview of forest health... we need more info

## 6 PRELIMINARY SUGGESTED INTEGRATED DATA SETS

### 6.1 Existing / Future Blocks

Field Name	Description	Sample Data
Id	Unique identifier	
Block_id	Block identifier (if necessary)	
Area	Calculated area	
Perimeter	Calculated perimeter	
License		A16823
Cutpermit		169
Block		01
Grow_stat	Status of the growth (ie. Mature, immature, etc.)	MAT
Harv_year	Year the block was harvested, null for future	2003
Open_no	MOF disturbance number	093F044 837
Source	Data collection source	GPS
Ha	Calculated hectares	
Input_date	Date data collected by provider	

### 6.2 Existing / Future Roads

Field Name	Description	Sample Data
Id	Unique identifier	
Rd_id	Road identifier (if necessary)	
Length	Calculated length	
Rd_code		FSR7459-02, CP 508-3
Rd_name	Common name	Verdun FSP, CP 508-3 Access
Rd_type		Spur, Access
Tenure		FSR

Source	Data collection source	GPS
Permit		R01947
Class		Operational
Yr_constr	Construction year	1999
Yr_deact	Deactivation year	
Input_date	Date data collected by provider	

### 6.3 Hydrology / Fish

Field Name	Description	Sample Data
Id	Unique identifier	
Water_id	Water body identifier (if necessary)	
Length	Calculated length	
Name	Common name	
Description		Beaver dam
Source	Data collection source	GPS, TRIM
Fish_confir	The presence of fish has been confirmed	
Fish_spec1	Type of fish	
Fish_spec2	Type of fish	
Strm_class	Code describing stream	NC, S6
Input_date	Date data collected by provider	

### 6.4 Forest Risk

Field Name	Description	Sample Data
Id	Unique identifier	
Area	Calculated area	
Perimeter	Calculated perimeter	
Esahigh	Code describing the Environmentally Sensitive Areas	H, W
Esalow	Code describing the Environmentally Sensitive Areas	H, W

	Environmentally Sensitive Areas	
Esawildlif		Not currently used
Prj_date		
Map	Combine with stand to form one field?	093L032
Stand		128
Colorcode		28
Acres	Calculated acres	
Mpbh	Mountain pine beetle <i>hazard</i> code	
Sbbh	Spruce bark beetle <i>hazard</i> code	
Bbbh	Balsam bark beetle <i>hazard</i> code	
Pine	Code	
Spruce	Code	
Balsam	Code	
Mpbr	Mountain pine beetle <i>rating</i> code	
Sbbr	Spruce bark beetle <i>rating</i> code	
Bbbr	Balsam bark beetle <i>rating</i> code	
Haz_color	Numeric code	
Input_date	Date data collected by provider	

## 6.5 Forest Overview

There is too little information given to produce a suggested data set at this point.