

Entity and Attribute Definitions Report

Run by: CASEOWNER
Run on: February 28, 2007 11:03 AM
Total Pages: 550
Total Entities: 236

Parameters

<i>Application:</i>	VGIS
<i>Entities:</i>	%
<i>ER Diagram:</i>	%
<i>Include Entity Notes?</i>	Y
<i>Include Attribute Descriptions?</i>	Y
<i>Include Attribute Notes?</i>	Y
<i>Include Attribute Values?</i>	Y

Data Administration
Entity Definition Report

Entity Name: ACCESS NOTE			<i>Short Name:</i>	ACCNT
<i>Plural:</i>	ACCESS NOTES			
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	250	<i>Max. Volume:</i> 5000
			<i>Annual Growth Rate:</i>	5%

Description:

A sequence of directions along a route, designed to enable personnel to navigate to the sample location from a predominant start point. The route is made up of a series of legs, such that the directions for a leg will take one to the start point for the next leg.

The level of directions is to be written for those unfamiliar with the vicinity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ACCESS NOTE SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-25-16:45 sourced from:346868:346969 >>				
CMT	DESC 256	N	VARCHAR2	256
Text describing the direction, junctions, turns, and landmarks associated with this note. If this is the final leg the instructions on locating the tie point or trail to the sample should be included.				
HH93_S ACCESS_AN_COMMENT				
<< 1998-03-25-16:45 sourced from:346868:346807 >>				
CUMUL DIST	NUM 4 1	Y	NUMBER	4,1
The cumulative distance of the road travel associated with travelling to the sample location.				
This is usually calculated from the vehicle odometer start value for one occurrence and the odometer start value for the subsequent leg.				
A! Incremental length not retained				
HH93_S ACCESS_AN_ODOMETER				
<< 1998-03-25-16:45 sourced from:346868:346806 >>				

Data Administration
Entity Definition Report

Entity Name:	ACCESS NOTE (cont'd)	Short Name:	ACCNT
---------------------	----------------------	-------------	-------

SEQUENCE ID	NUM 2	N	NUMBER	2,0
-------------	-------	---	--------	-----

The sequence number for an occurrence of a leg along an access

route. This specifies the order in the legs are travelled. Leg

numbers start at 1 and the highest number identifies the leg that

terminates at a visible trail to the sample.

HH93_S ACCESS_AN_SEQNMBR

<< 1998-03-25-16:45 sourced from:346868:346805 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE a navigation guide for one and only one POINT LOCATION

* = Relationships in primary unique identifier.

Unique Identifiers:

ACCNT1	Primary	Y
--------	---------	---

ACCESS NOTE SKEY

Notes:

A? Check with BD to find the source of indexed access file notes from

HH

<< 1998-03-25-16:45 sourced from:346868:346804 >>

Entity Name: ADJUSTMENT FACTOR			<i>Short Name:</i>	ADJF
<i>Plural:</i>	ADJUSTMENT FACTORS			
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i> 1000
			<i>Annual Growth Rate:</i>	2%

Description:

A factor or constant value applied to the derivation of data.

Historically, decay, waste and breakage have been applied

to the tree volumes (as reductions) though under the Vegetation

Inventory design, adjustments can be applied to many attributes,

either as reductions or increases.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ADJ FACTOR SKEY	SKEY 7	N	NUMBER	7,0
System generate unique identifier using ORACLE SEQUENCE				
adj_factor_seq.				
<< 1998-03-26-11:36 sourced from:236464:433869 >>				
DESCRIPTION		Y	VARCHAR2	50
A dummy attribute inserted for table generation pending complete				
analysis of the required attributes.				
<< 1998-03-26-11:36 sourced from:236464:433872 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE a parameter for one or more DERIVATION MODULES

MAY BE applied to one or more BUSINESS OBJECT ASSESSMENTS

* = Relationships in primary unique identifier.

Unique Identifiers:

ADJF1	Primary	Y
ADJ FACTOR SKEY		

Notes:

A! 1 JRT 21 Jan 97 - further detailed analysis is required to define

the attribution for this entity. and the source of the adjustment

Entity Name:	ADJUSTMENT FACTOR (cont'd)	<i>Short Name:</i>	ADJF
	factors		

A! 2 JH, DEC-04-97 -upon further analysis, relationships may be
(should be?) formed with the inheriting entities of BUSINESS OBJECT
ASSESSMENT, e.g. VOLUME ASSESSMENT, SITE INDEX ASSESSMENT, BASAL AREA
ASSESSMENT, CULMINATION ASSESSMENT, MEAN DIAMETER ASSESSMENT

<< 1998-03-26-11:36 sourced from:236464:427137 >>

- Subtypes:*
- BREAKAGE
 - DECAY
 - FIP INTERPRETATION
 - LOSS
 - WASTE

Entity Name: AGE ASSESSMENT				Short Name:	AGEA
Plural:	AGE ASSESSMENTS				
Init. Volume:	4000	Avg. Volume:	10000	Max. Volume:	40000
				Annual Growth Rate:	5%

Description:

Measurements, estimations and derivations of tree age. In the field, age is usually measured from the annual growth increments counted from an (increment) core sample extracted at a prescribed height (HEIGHT). The measured age has historically been collected at various heights as low to the germination point as practical. A correction factor is then applied to reflect the total age (age at the germination point). The present practise is to collect age at a standard 1.30 breast height.

An age assessment may be corrected to both total age or to breast height, 1.30 m.

For certain tree species, age may be derived from a count of the whorls (tree branch nodes indicating 1 year's growth) above a certain height or above germination point.

Each of these AGE factors (original counts, whorl counts, adjustments) are recorded in a separate row occurrence in AGE COMPONENT FACTOR with an appropriate TYPE CD to indicate what the recorded value represents.

N.B. Analysis only.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
-------------	---------------	------------	---------------	---------------

Entity Name:

AGE ASSESSMENT (cont'd)

Short Name:

AGEA

* AGE ASSMT SKEY

SKEY 7

N

NUMBER

7,0

A unique identifier for an occurrence if a tree age.

<< 1998-03-26-10:19 sourced from:346868:583461 >>

ASSESSED FEATURE

TREE AGE FEATURE

N

VARCHAR2

3

A code that defines the physical tree feature used for age assessment.

Valid values are whorls, core increment or stump.

<< 1998-03-26-10:19 sourced from:346868:583474 >>

BARK THICKNESS

NUM 3

Y

NUMBER

3,0

Bark thickness, at MEASUREMENT HEIGHT, as measured during an AGE ASSESSMENT.

<< 1998-03-26-10:19 sourced from:346868:586535 >>

CORE CONDITION CD

CORE CONDITION CD

Y

VARCHAR2

3

A code that describes the condition and/or completion of extracting the of the increment core. Valid values include

CRC - can't reach center

ROT - rotten center

FUL - full core to pith

<< 1998-03-26-10:19 sourced from:346868:586622 >>

CORE SOURCE IND

CORE SOURCE IND

Y

VARCHAR2

3

A code that indicates whether the age boring core came from the tree defined or from an out-of-plot tree of the same species.

Data Administration
Entity Definition Report

Entity Name:	AGE ASSESSMENT (cont'd)	Short Name:	AGEA
---------------------	-------------------------	--------------------	------

An out-of-plot tree is bored if the in-plot tree cannot be bored due to inaccessibility in the field or a field determination that the actual in-plot tree is not representative for some reason.

<< 1998-03-26-10:19 sourced from:346868:597900 >>

CREATE DATE	N	DATE
-------------	---	------

<< 1998-03-26-10:19 sourced from:346868:583469 >>

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
----------------	-------------	---	----------	----

<< 1998-03-26-10:19 sourced from:346868:583468 >>

DIAM AT BORING HT	TREE DIAMETER 4 1	Y	NUMBER	4,1
-------------------	-------------------	---	--------	-----

The outside bark (OB) diameter measured at the boring height for age assessment.

<< 1998-03-26-10:19 sourced from:346868:583473 >>

GERMINATION DATE	Y	DATE
------------------	---	------

The date the tree germinated from seed. Derived from the AGE

ASSESSMENT COMPONENTS (i.e. total tree age (age to pith plus or minus adjustments) subtracted from the MEASUREMENT DATE as recorded in the MEASUREMENT VISITATION).

<< 1998-03-26-10:19 sourced from:346868:613815 >>

MEASMT HEIGHT	MEASMT HEIGHT	N	NUMBER	4,2
---------------	---------------	---	--------	-----

The height in meters above germination point or highest side at which the age measurement was taken. Depending on the method, it is either the height of the stump or the height the core sample was bored at.

Data Administration
Entity Definition Report

Entity Name:	AGE ASSESSMENT (cont'd)	Short Name:	AGEA
---------------------	-------------------------	--------------------	------

<< 1998-03-26-10:19 sourced from:346868:583455 >>

MODIFY DATE Y DATE

<< 1998-03-26-10:19 sourced from:346868:583471 >>

MODIFY USER ID ORACLE USER Y VARCHAR2 30

<< 1998-03-26-10:19 sourced from:346868:583470 >>

REPRESENTATIVE IND INDICATOR Y VARCHAR2 1

An indicator to denote if theTOTAL AGE is representative of
the tree population of the sample or experimental unit. Tree ages
that are not representative may not be included in
age related calculations for the sample.

Representative ages can be either determined in the field where no
discretion of collection is allowed, or post data
processing where an age may be chosen to be excluded.

*Previously named REPRESS IND. Named changed to
avoid confusion with the recoding of 'repressed growth'.*

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE additionally selected by one or more AUGMENTED ASSESSMENT ACTIVITIES
MAY BE composed of one or more AGE ASSESSMENT COMPONENTS
MUST BE aquired at one and only one TREE MEASUREMENT

** = Relationships in primary unique identifier.*

Unique Identifiers:

AGEA1 Primary Y
AGE ASSMT SKEY

Notes:

03 sep 97 JRT; see further notes below;

- this entitiy was copied from AGE ASSMTS and modified.

Data Administration
Entity Definition Report

Entity Name:	AGE ASSESSMENT (cont'd)	Short Name:	AGEA
---------------------	-------------------------	--------------------	------

<< 1998-03-26-10:19 sourced from:346868:583454 >>

A! 98-09-02 JH this is retained for analysis purposes only: this entity represents the most up-to-date analysis that can satisfy the Veg. Sample data collection requirements where pieces of increment cores are ring counted and 'alternate' ages (physiological (sic)) are recorded

Rationalization and normalization with AGE ASSMTS to follow at a future date

Entity Name: AGE ASSESSMENT COMPONENT				<i>Short Name:</i>	AAC
<i>Plural:</i>	AGE ASSESSMENT COMPONENTS				
<i>Init. Volume:</i>	8000	<i>Avg. Volume:</i>	20000	<i>Max. Volume:</i>	30000
				<i>Annual Growth Rate:</i>	10%

Description:

A component (expressed in years) used in the determination of total tree age at time of measurement. Typically, tree age is determined from an increment core sample taken at a measurement height. The ring count from this core would be saved as one row occurrence (with TYPE CD ='RING'.

Since trees are tapered, an adjustment is made to estimate the tree age from germination point (height = 0.0) to measurement height (1.3 m. typically). This adjustment factor is stored in a row occurrence with TYPE CD='ADJ20' (adjust to height 0.0).

Total age for a tree at a specific tree measurement is then calculated as the sum of these 2 row occurrences - i.e. count + adjustment.

Procedurally, rules are used to enforced a precedence of precision in age counts from bored cores. Microscope counts are used preferentially if an occular count exists.

Any actual counts (ocular or microscope) are considered better than a physiological count and would be used if both exist.

N.B. Analysis only.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
-------------	---------------	------------	---------------	---------------

Entity Name:

AGE ASSESSMENT COMPONENT (cont'd)

Short Name:

AAC

* AGE COMPONENT SKEY

SKEY 7

N NUMBER

7,0

UID generated from an Oracle sequence number.

<< 1998-03-26-10:19 sourced from:346868:597907 >>

COMPONENT TYPE CD

AGE COMPONENT TYPE

N VARCHAR2

8

A code that indicates what the quantity in years represents.

The age may be applied for radial and longitudinal occurences.

Valid values are defined in the Age Component Type Cd domain.

<< 1998-03-26-10:19 sourced from:346868:597915 >>

YEAR COUNT

N NUMBER

4,0

The number of years assessed for the component of the age assessment.

<< 1998-03-26-10:19 sourced from:346868:597916 >>

On 20001-06-13 modified year count to be number 4 -- Bob Krann saying trees are recorded as being up to 4000 years old.. Also modified domain TREE AGES form 0-3999

ASSESSMENT METHOD CD

AGE COMPONENT METHOD

N VARCHAR2

8

A code that describes how the quantity_in_yrs was determined.

<< 1998-03-26-10:19 sourced from:346868:614029 >>

CORE SECTION LENGTH

NUM 4 1

Y NUMBER

4,1

The core length used in proration or adjustent calculations.

<< 1998-03-26-10:19 sourced from:346868:614035 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE a portion of one and only one AGE ASSESSMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

Entity Name:	AGE ASSESSMENT COMPONENT (cont'd)	<i>Short Name:</i>	AAC
AAC1	<i>Primary</i>	Y	
AGE COMPONENT SKEY			

Notes:

<< 1998-03-26-10:19 sourced from:346868:597901 >>

A! 98-09-02 JH this is retained for analysis purposes only: this entity represents the most up-to-date analysis that can satisfy the Veg. Sample data collection requirements where pieces of increment cores are ring counted and 'alternate' ages (physiological (sic)) are recorded

Entity Name: AGE ASSMT				Short Name:	AGEMTS
Plural:	AGE ASSMTS				
Init. Volume:	4000	Avg. Volume:	8000	Max. Volume:	10000
				Annual Growth Rate:	

Description:

Reverse Engineered from table AGE_ASSMTS (from the physical). Is a

denormalized format in support of Veg Ground Samples. Will be later

modified to AGE_ASSESSMENTS and AGE_ASSESSMENT_COMPONENTS.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AGE_ASSMT_SKEY		N	NUMBER	7,0
Reverse Engineered from column AGE_ASSMT_SKEY of table AGE_ASSMTS				
HEIGHT	MEASMT HEIGHT	N	NUMBER	4,2
Reverse Engineered from column HEIGHT of table AGE_ASSMTS				
ASSESSED_AGE	TREE AGE	Y	NUMBER	3,0
Reverse Engineered from column ASSESSED_AGE of table AGE_ASSMTS				
QUALIFIER_CD		N	VARCHAR2	7
Reverse Engineered from column QUALIFIER_CD of table AGE_ASSMTS				
REPRES_IND		N	VARCHAR2	1
Reverse Engineered from column REPRES_IND of table AGE_ASSMTS				
CORRTN_FTR	TREE AGE CORRTN	Y	NUMBER	2,0
Reverse Engineered from column CORRTN_FTR of table AGE_ASSMTS				
CREATE_USER_ID		N	VARCHAR2	30
Reverse Engineered from column CREATE_USER_ID of table AGE_ASSMTS				
CREATE_DATE		N	DATE	
Reverse Engineered from column CREATE_DATE of table AGE_ASSMTS				
PITH_IND		Y	VARCHAR2	1
Reverse Engineered from column PITH_IND of table AGE_ASSMTS				
RADIAL_INC_10_YR	RAD INC	Y	NUMBER	3,0
Reverse Engineered from column RADIAL_INC_10_YR of table AGE_ASSMTS				
RADIAL_INC_20_YR	RAD INC	Y	NUMBER	3,0
Reverse Engineered from column RADIAL_INC_20_YR of table AGE_ASSMTS				
SOUND_TREE_IND		Y	VARCHAR2	1
Reverse Engineered from column SOUND_TREE_IND of table AGE_ASSMTS				

Entity Name: AGE ASSMT (cont'd)

Short Name:

AGEMTS

MEAN_SEL_IND	Y	VARCHAR2	1
Reverse Engineered from column MEAN_SEL_IND of table AGE_ASSMTS			
TOTAL_AGE	Y	NUMBER	3,0
Reverse Engineered from column TOTAL_AGE of table AGE_ASSMTS			
MODIFY_USER_ID	Y	VARCHAR2	30
Reverse Engineered from column MODIFY_USER_ID of table AGE_ASSMTS			
MODIFY_DATE	Y	DATE	
Reverse Engineered from column MODIFY_DATE of table AGE_ASSMTS			
AGASM_TYPE	Y	VARCHAR2	10
Reverse Engineered from column AGASM_TYPE of table AGE_ASSMTS			
AGE_ADJUSTMENT	Y	NUMBER	4,0
Reverse Engineered from column AGE_ADJUSTMENT of table AGE_ASSMTS			
AGE_ADJUSTMENT_REASON_CD	Y	VARCHAR2	3
Reverse Engineered from column AGE_ADJUSTMENT_REASON_CD of table AGE_ASSMTS			
BARK_THICKNESS	Y	NUMBER	3,0
Reverse Engineered from column BARK_THICKNESS of table AGE_ASSMTS			
PRORATE_LENGTH	Y	NUMBER	4,1
Reverse Engineered from column PRORATE_LENGTH of table AGE_ASSMTS			
RING_COUNT	Y	NUMBER	4,0
Reverse Engineered from column RING_COUNT of table AGE_ASSMTS			
TAPER_EQN_AGE_CORRTN_FTR	Y	NUMBER	4,0
Reverse Engineered from column TAPER_EQN_AGE_CORRTN_FTR of table AGE_ASSMTS			
WHORLS_ABOVE_HT	Y	NUMBER	2,0
Reverse Engineered from column WHORLS_ABOVE_HT of table AGE_ASSMTS			
WHORLS_BELOW_HT	Y	NUMBER	2,0
Reverse Engineered from column WHORLS_BELOW_HT of table AGE_ASSMTS			
RADIAL_INC_5_YR	Y	NUMBER	3,0
Reverse Engineered from column RADIAL_INC_5_YR of table AGE_ASSMTS			
DIAM_AT_BORING_HT	Y	NUMBER	4,1
Reverse Engineered from column DIAM_AT_BORING_HT of table AGE_ASSMTS			
BORED_HEIGHT_AGE	Y	NUMBER	4,0

Entity Name: AGE ASSMT (cont'd)

Short Name: AGEMTS

Reverse Engineered from column BORED_HEIGHT_AGE of table AGE_ASSMTS

PHYSIOLOGICAL_AGEY NUMBER4,0

Reverse Engineered from column PHYSIOLOGICAL_AGE of table AGE_ASSMTS

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MUST BE for one and only one CLUSTER ELMT MEASMT

MUST BE for one and only one TREE MEASUREMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

AGEMTS1Primary Y

AGE_ASSMT_SKEY

Entity Name: AGE CLASS				<i>Short Name:</i> AC	
<i>Plural:</i> AGE CLASSES					
<i>Init. Volume:</i> 1000		<i>Avg. Volume:</i> 2000		<i>Max. Volume:</i> 3000	
				<i>Annual Growth Rate:</i> 1%	

Description:

The standard Resouce Inventory Branch age class code and the bounds for its determination. It is expected that this would be the rule table from which Age Class is derived, as it is proposed that Tree Layer specific age class data will not be stored.

As analysed, this is a stand-alone rule table and has no relationships.

Populate the values from the FIP Dictionary, p 3-96.

Attributes:				
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AGE CLASS SKEY	SKEY 7	N	NUMBER	7,0
The surrogate identifier of an Age Class.				
<< 1998-03-26-13:05 sourced from:236464:508520 >>				
AGE CLASS CD	FIP AGE CLASS	Y	NUMBER	2,0
The business assigned code for a range of ages.				
<< 1998-03-26-13:05 sourced from:236464:508521 >>				
MIN AGE BND	TREE AGE	N	NUMBER	3,0
The minimum age bound of the age class.				
<< 1998-03-26-13:05 sourced from:236464:508525 >>				
MAX AGE BND	TREE AGE	Y	NUMBER	3,0
The maximum age bound of the age class. If no value (null), then no maximum applies.				
<< 1998-03-26-13:05 sourced from:236464:508526 >>				
* = Attributes in primary unique identifier.				

Relationships:
Each Occurrence Of This Entity:

Entity Name:	AGE CLASS (cont'd)	Short Name:	AC
---------------------	--------------------	--------------------	----

MAY BE identifying one or more DEFAULT CROWN CLOSURES

* = Relationships in primary unique identifier.

Unique Identifiers:

AC1	Primary	Y
AGE CLASS SKEY		

Notes:

<< 1998-03-26-13:05 sourced from:236464:508514 >>

Data Administration
Entity Definition Report

Entity Name: AGE STATISTICAL ESTIMATE			Short Name:	AGSTE
Plural:	AGE STATISTICAL ESTIMATES			
Init. Volume:	102727	Avg. Volume:	120000	Max. Volume: 165000
			Annual Growth Rate:	5%

Description:

The statistical estimates of tree age of the population.

Note that the tree age for purpose of statistical summary is converted to the year of tree origin. This is to facilitate provision of current tree age without annual conversion of measured age.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
AGE MID POINT IND	INDICATOR DEFAULT N	N	VARCHAR2	1

An indicator to denote that the mean age (MEAN YR OF ORIGIN) is based on age class mid points rather than the statistical summary of the individual trees. This historical data processing practise inherited from ather group, is no longer followed. It is only applicable to the Inventory temporary inventory samples (TSP's) where the aggregation of trees by age and height class was a common processing technique.

In time, these MEAN AGE's should be recalculated from the individual trees (95-3).

SEF_S CT1:66 AGE HEIGHT MIDPT

SEF_C Blank = 'N', 'M' = 'Y'

A! Not on HH; default = 'N'

<< 1998-03-26-10:21 sourced from:346868:347110 >>

* AGE STATISTICAL SKEY	SKEY 7	N	NUMBER	7,0
A surrogate identifier of the calculation of Mean Age (Year of Origin)				

as no identifiers have been kept previously. The data and time of calculation would, in the future, become the key.

Data Administration
Entity Definition Report

Entity Name:	AGE STATISTICAL ESTIMATE (cont'd)	Short Name:	AGSTE
---------------------	-----------------------------------	--------------------	-------

<< 1998-03-26-10:21 sourced from:346868:347080 >>

DATE OF CALC	N	DATE
--------------	---	------

The date the statistical estimates of age (in the forms of origin year) were calculated. If the calculation date is unknown, the default is the date in which the data was loaded from existing files.

SEF_C default to load data

<< 1998-03-26-10:21 sourced from:346868:347027 >>

MAX YR OF ORIGIN	TREE ORIGIN YR	Y	NUMBER	4,0
------------------	----------------	---	--------	-----

Maximum year of origin for trees of selected trees to characterize a layer and species.

<< 1998-03-26-10:21 sourced from:346868:347029 >>

MEAN YR OF ORIGIN	TREE ORIGIN YR	Y	NUMBER	4,0
-------------------	----------------	---	--------	-----

The mean (average) year of origin calculated from individual trees (an exception being for AGE MID POINT IND ='Y'). This value has been converted from the mean age as it is stored in the Standard Edit File, to a mean year of origin on account of the fact that mean age changes as does time. (In order to keep the value correct, it must be updated every year.) Therefore as the data meaning is constant, it has been converted on data loading.

<< 1998-03-26-10:21 sourced from:346868:347030 >>

MEASMT HT	MEASMT HEIGHT	N	NUMBER	4,2
-----------	---------------	---	--------	-----

Measurement height to which the age estimate calculation applies (e.g. breast height). Total age is assumed to have a zero measurement height.

<< 1998-03-26-10:21 sourced from:346868:347026 >>

MIN YR OF ORIGIN	TREE ORIGIN YR	Y	NUMBER	4,0
------------------	----------------	---	--------	-----

Minimum year of origin for trees of the representative selected trees to characterize a layer and species.

Data Administration
Entity Definition Report

Entity Name:	AGE STATISTICAL ESTIMATE (cont'd)	Short Name:	AGSTE
---------------------	-----------------------------------	--------------------	-------

<< 1998-03-26-10:21 sourced from:346868:347028 >>

STAT VARIANCE	NUM 6 4	Y	NUMBER	6,4
Variance of year of origin for trees of the representative selected				

trees to characterize the layer and species.

<< 1998-03-26-10:21 sourced from:346868:347031 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE calculated for one and only one SELECTION METHOD
MUST BE characterizing one and only one LAYER SPECIES COMPOSITION
* = Relationships in primary unique identifier.

Unique Identifiers:

AGSTE1	Primary	Y
AGE STATISTICAL SKEY		

Notes:

<< 1998-03-26-10:21 sourced from:346868:347025 >>

Entity Name: AGENCY PERSON ASSOCIATION			<i>Short Name:</i>	APA
<i>Plural:</i>	AGENCY PERSON ASSOCIATIONS			
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	3000	<i>Max. Volume:</i> 5000
			<i>Annual Growth Rate:</i>	2%

Description:

The association of a person with an agency. This is typically, but not limited to, an employee. This reflects the temporal association of a person with many agencies over time.

No reliable population of attribute values is anticipated owing to the vagaries of collecting this temporal data.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AGENCY_PERSON_SKEY		N	NUMBER	7,0
The surrogate identifier of agency-person association				
<< 1998-03-25-16:59 sourced from:416792:524020 >>				
CREATE DATE		N	DATE	
The date the association of a Person with an Agency was created in the application.				
<< 1998-03-25-16:59 sourced from:416792:432494 >>				
MODIFY DATE		Y	DATE	
The date the association of a Person with an Agency was modified in the application.				
<< 1998-03-25-16:59 sourced from:416792:492761 >>				
CREATE USER ID	ORACLE USER	Y	VARCHAR2	30
The user id that created the association of a Person with an Agency.				
<< 1998-03-25-16:59 sourced from:416792:432495 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
The user id that created the association of a Person with an Agency.				
<< 1998-03-25-16:59 sourced from:416792:492762 >>				

* = Attributes in primary unique identifier.

Relationships:

Entity Name:	AGENCY PERSON ASSOCIATION (cont'd)	Short Name:	APA
---------------------	------------------------------------	--------------------	-----

Each Occurrence Of This Entity:

- MAY BE interpreter for one or more VERSION AUDIT METADATA
- MAY BE participating in one or more ROLE ASSOCIATIONS
- MUST BE composed of one and only one PERSON
- MUST BE composed of one and only one VGIS AGENCY
- * = Relationships in primary unique identifier.

Unique Identifiers:

APA2	Primary	N
MUST BE composed of one and only one PERSON		
MUST BE composed of one and only one VGIS AGENCY		
APA1	Primary	Y
AGENCY_PERSON_SKEY		

Notes:

A!; This same entity is named Agency Personnel Staff in the SPD v.5 data model and is re-named to remove any percieved limitations in the name. This MUMS version can be considered to be the definitive source of name and definition on account of development preceeding that of SPD.

<< 1998-03-25-16:59 sourced from:416792:422504 >>

Entity Name: AGGREGATE PLOT		Short Name:	AGG
Plural:	AGGREGATE PLOTS		
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:
Subtype of:	SPATIAL DELIMITER		

Description:

A type of plot area that occurs multiple times within an experimental design but against which measurements are made in total. For example in Vegetation Ground Samples, 4 'micro-plots' of .5m2 area are created along the 2 transects to measure forage production. Total gramminoid and forbs dried weight are measured for all 4 plots.

A! On second thought, this subtype should be eliminated and the NUM OF OCCURENCES attribute should be moved to the POINT LOCATION VISITATIONS entity which represents the temporal and locational (i.e. as implemented) occurrence of a 'plot'. In this way, all situational attribution related to a plot. e.g. partial coverage (START and END BEARING, OBSERVED LINE LENGTH, INSTRUMENT TYPE CD, and NUM OF OCCURENCES would all be located in the same place.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
NUM OF OCCURENCES	NUM 2	Y	NUMBER	2,0

The number of occurrences of the plot dimensions that comprise the Spatial Delimiter. For example, there a 4 micro-plots with radius .399m., .5m2 area created for Vegetation Ground Samples.

Thus total area for the Delimiter would be 4 x .5 = 2.0 m2.

Data Administration
Entity Definition Report

Entity Name:	AGGREGATE PLOT (cont'd)	<i>Short Name:</i>	AGG
---------------------	-------------------------	--------------------	-----

<< 1998-03-26-10:29 sourced from:346868:560703 >>

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-26-10:29 sourced from:346868:560005 >>

Entity Name: AGGREGATE TREE			Short Name:	AGGR
Plural:	AGGREGATE TREES			
Init. Volume:	300	Avg. Volume:	500	Max. Volume: 800
Subtype of:	TREE			
Annual Growth Rate:			5%	

Description:

A group of trees identified in the same manner as an individual tree for which observed data is aggregated, often owing to the lack of practicality.

The intent is that this apply to groups of trees by species that are defined ad hoc, that is, in the field. For example, the Vegetation Inventory practise, is to aggregate stumps (only, not live trees) based on a mean diameter that is determined in the field.

For frequency count of trees by species where classes aggregate by pre-defined bounds, this would be stored in the Diameter/Hieght Class Frequency Count entity, not here.

In assessing a group of trees it is implied that any measurements such as diameter and/or height are mean values, not for individual elements (trees).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
FREQUENCY COUNT	NUM 3	Y	NUMBER	3,0
The number of trees that contribute to an observed 'single' aggregate tree.				

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-26-10:29 sourced from:346868:524096 >>

Entity Name:	AREAL SHAPE DIMENSION		<i>Short Name:</i>	ASD
<i>Plural:</i>	AREAL SHAPE DIMENSIONS			
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>	

Description:

The dimensions of each dimension of planimetric objects

(typically plots or transects.

This entity has been added to permit the storage of plots of

heretofore 'odd' shapes such as triangular and 'L' shaped

types.

The physical implementation of this entity is being postponed on a

as-needed basis.

Rules will be required to be built to enforce the number of dimensions

for a given shape. For example, a circle can be described by a single

dimension Length Distance, where an 'L' shape will require six Length

Distance values.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DIMENSION SKEY		N	NUMBER	7,0
The surrogate identifier for a dimension or side of a fixed area plot.				
<< 1998-03-26-15:01 sourced from:7003:404143 >>				
DIMENSION SEQ NUM		N	NUMBER	4,0
The sequential number of a side or lengh of a fixed area shape. The				
sides of a polygonal object need to be identified in sequence to				
correctly calculate the dimension of a shape.				

Entity Name:	AREAL SHAPE DIMENSION (cont'd)	<i>Short Name:</i>	ASD
---------------------	--------------------------------	--------------------	-----

<< 1998-03-26-15:01 sourced from:7003:404144 >>

LENGTH	N	NUMBER	8,4
The length of a leg or radius of a fixed area plot in meters.			

<< 1998-03-26-15:01 sourced from:7003:404145 >>

LENGTH BEARING	AZIMUTH BRG	Y	NUMBER	3,0
The bearing of the side or dimension of a fixed area shape. Optional				
as area can be calculated without the actual bearings.				

<< 1998-03-26-15:01 sourced from:7003:404146 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE describing a lineal feature of one and only one SPATIAL DELIMITER

* = Relationships in primary unique identifier.

Unique Identifiers:

ASD1	Primary	Y
DIMENSION SKEY		

Notes:

<< 1998-03-26-15:01 sourced from:7003:404135 >>

Entity Name: AUGMENTED ASSESSMENT ACTIVITY		<i>Short Name:</i>	AACT
<i>Plural:</i>	AUGMENTED ASSESSMENT ACTIVITIES		
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	3000
		<i>Max. Volume:</i>	10000
		<i>Annual Growth Rate:</i>	

Description:

The association of a Tree assessment for additional measurement, Tree Height or Tree Age, with the Selection Method, for a specific Purpose.

For example, there may exist, at the time of collection, multiple purposes in selecting a given Tree Height or Tree Age - the sampling regime may require a Top Height Tree, a Leading Species Tree and a Random Tree which in some cases, can be the same tree.

Another example is where a tree is selected as the Top Height tree, and then selected again as the Random tree in the current Vegetation InventorySampling practise.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ASS ACT SKEY	SKEY 7	N	NUMBER	7,0
A system generated surrogate identifier.				

Created to address the complexity of the unique identification of an occurrence and to minimize future table maintenance should other individual business items need to be selected. (No primary key update required).

PURPOSE CD	CHAR 8	Y	VARCHAR2	8
A code used to represent the assessment purpose.				

Examples would be:

Entity Name:	AUGMENTED ASSESSMENT ACTIVITY (cont'd)	Short Name:	AACT
---------------------	--	--------------------	------

CH_STND -characterization of stand/layer height or age

CH_HT/DI -characterization of height/diameter relationship.

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE occurring for one and only one HEIGHT ASSESSMENT

or MUST BE occurring for one and only one AGE ASSESSMENT

MUST BE initiated by one and only one SELECTION METHOD

* = Relationships in primary unique identifier.

Unique Identifiers:

AACT1 *Primary* *Y*

ASS ACT SKEY

Entity Name: BASAL AREA ASSESSMENT				<i>Short Name:</i>	BAA
<i>Plural:</i>	BASAL AREA ASSESSMENTS				
<i>Init. Volume:</i>	5000	<i>Avg. Volume:</i>	15000	<i>Max. Volume:</i>	20000
				<i>Annual Growth Rate:</i>	5%

Description:

The cross sectional tree area at breast height.

This attribute may be either observed, as per Vegetation Inventory data collection specifications, or calculated from growth projection models, e.g. VDYP.

Definition Source: p. 6-18, PIP

AttrIBUTES:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BASAL AREA SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier populated from BASAL_AREA_SEQ.				
<< 1998-03-26-11:30 sourced from:236464:678441 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:23 sourced from:236464:422006>>				
<< 1998-03-26-11:30 sourced from:236464:681646 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				
<<1997-12-09-14:23 sourced from:236464:422005>>				
<< 1998-03-26-11:30 sourced from:236464:681645 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				

Data Administration
Entity Definition Report

Entity Name:	BASAL AREA ASSESSMENT (cont'd)	Short Name:	BAA
---------------------	--------------------------------	--------------------	-----

<<1997-12-09-14:23 sourced from:236464:422008>>

<< 1998-03-26-11:30 sourced from:236464:681648 >>

MODIFY DATE Y DATE
The date the record was last modified.

<<1997-12-09-14:23 sourced from:236464:422007>>

<< 1998-03-26-11:30 sourced from:236464:681647 >>

BUSINESS REVISION DATE Y DATE
The date the basal area was revised after

it was originally interpreted as part of the Vegetation Inventory
classification.

This is not the same as a system generated audit MODIFY DATE.

<< 1998-03-26-11:30 sourced from:236464:681153 >>

BASAL AREA PER HA BASAL AREA PER HA N NUMBER 8,4
The cross sectional tree area at breast height.

This attribute may be either observed, as per Vegetation Inventory
data collection specifications, or calculated from growth projection
models, e.g. VDYP.

Definition Source: p. 6-18, PIP

<<1997-12-05-16:04 sourced from:236464:544886>>

<< 1998-03-26-11:30 sourced from:236464:679741 >>

CONFIDENCE INDEX NUM ESTIMATE CONFIDENCE Y NUMBER 1
A subjective discrete assignment from 1 to 9 which reflects the

Entity Name: BASAL AREA ASSESSMENT (cont'd)

Short Name: BAA

photo interpreter's confidence in the estimation of the stand Basal Area Estimate. The higher the number, the greater the confidence in the interpretation.

The confidence index should not reflect the individual interpreter's abilities, but an estimate of the difficulty of making the interpretation due to polygon complexity and reliability of data sources.

Definition Source: p. 6-20, PIP

<<1997-12-05-16:04 sourced from:236464:544888>>
<< 1998-03-26-11:30 sourced from:236464:679739 >>

INTERPRETATION SOURCE CD	INTERPRETATION DATA	Y	NUMBER	2
The source of data used for the interpretation of basal area.				
<<1997-12-05-16:04 sourced from:236464:670115>>				
<< 1998-03-26-11:30 sourced from:236464:679740 >>				

SOURCE TYPE	DATA SOURCE TYPE	N	VARCHAR2	5
The basic source type of the data; either Collected or Derived. This is utilized to distinguish occurrences of attributes that can come from either source.				
Expected to be used for FIP sourced data only; all within-database derivations will have a DERIVATION TRANSACTION occurrence to identify derived data.				
<< 1998-03-26-11:30 sourced from:236464:786453 >>				

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

Entity Name:	BASAL AREA ASSESSMENT (cont'd)	<i>Short Name:</i>	BAA
---------------------	--------------------------------	--------------------	-----

MAY BE derived for one and only one UTILIZATION LEVEL AREA ASSOCIATION
MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT
* = *Relationships in primary unique identifier.*

Unique Identifiers:

BAA1	Primary	Y
BASAL AREA SKEY		

Notes:

<< 1998-03-26-11:30 sourced from:236464:678401 >>

Entity Name: BASE CD			Short Name:	SBC
Plural:	SILV BASE CODES			
Init. Volume:	50	Avg. Volume:	500	Max. Volume: 500
		Annual Growth Rate: 5%		
Subtype of:	SILVICULTURE ACTIVITY CD			

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BASE CD		N	VARCHAR2	2
Silviculture base code per FIP History record attribute attribute cd.				

<< 1998-03-26-11:52 sourced from:236464:436122 >>

* = Attributes in primary unique identifier.

Unique Identifiers:

SBC1	Primary	Y
BASE CD		

Notes:

<< 1998-03-26-11:52 sourced from:236464:435905 >>

Entity Name: BC LAND COVER CLASSIFICATION CD		<i>Short Name:</i>	LCC
<i>Plural:</i>	BC LAND COVER CLASS CDS		
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	500
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	5%

Description:

A classification scheme of land cover based on hierarchial levels of detail developed by the Vegetation Inventory Working group, under the auspices of the Resource Inventory Committe (RIC).

The classification has 5 levels and is meant to be applied in the interpretation and estimation of vegetative land cover in the course of defining homogeneous areal units as seen on medium scale photography.

The classification is of a dichotomous construct. That is, the first level, Land Base is of two types, vegetated and non-vegetated, and each of these has particular classifications, treed/non-treed and land/water respectively.

The classification scheme is also referenced as a collected item for Vegetation Inventory samples. It is associated with the assessment of each site series that occurs on a sample.

Definition Source: Photo Interpretation Procedures Manual, Section 1

Entity Name:	BC LAND COVER CLASSIFICATION CD (cont'd)	Short Name:	LCC
---------------------	--	--------------------	-----

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CLASSIFICATION CD		N	VARCHAR2	3
The code for the land cover classification. The codes are approved by the Resource Inventory Committee, RIC.				
<< 1998-03-26-11:31 sourced from:236464:285632 >>				
CLASSIFICATION DESC		N	VARCHAR2	256
The description of the land classification as supplied by the manual, Photo Interpretation Procedures.				
<< 1998-03-26-11:31 sourced from:236464:285633 >>				
* CLASS CODE SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-26-11:31 sourced from:236464:331751 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- MAY BE a part of one and only one BC LAND COVER CLASSIFICATION CD
 - MAY BE composed of one or more BC LAND COVER CLASS CDS
 - MAY BE constrained by one or more BCLCC BOUND SETS
 - MAY BE derived from one or more BCLCC FIP SOURCE DERVTN RULES
 - MAY BE further describing one or more ECOSYSTEM DESC DETAILS
 - MAY BE prescribing the values for one or more LAND COVER COMPONENT INTRPRTNS
 - MAY BE prescribing the values for one or more POLYGONS
 - MUST BE classified into one and only one BC LAND COVER LEVEL CD
- * = Relationships in primary unique identifier.

Unique Identifiers:

LCC1	Primary	Y
CLASS CODE SKEY		

Notes:

- A_S! construct from Sec. 1, pp. 1-5 to 1-16, PIP
- A! seems that the Level 4 and 5 have semantically overloaded names as the code value is contingent on the higher category which it

Entity Name:	BC LAND COVER CLASSIFICATION CD (cont'd)	Short Name:	LCC
---------------------	--	--------------------	-----

refines; no attempt was made to change names.

<< 1998-03-26-11:31 sourced from:236464:236575 >>

Entity Name: BC LAND COVER LEVEL CD			<i>Short Name:</i>	LCLC
<i>Plural:</i>	BC LAND COVER LEVEL CDS			
<i>Init. Volume:</i>	10	<i>Avg. Volume:</i>	10	<i>Max. Volume:</i> 10
			<i>Annual Growth Rate:</i>	1%

Description:

The code indicating the LEVEL in the BC Land Cover Classification coding scheme.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CLASSIFICATION LEVEL	The assigned business identifier of the classification level. This has hierarchial implications, Level 1 identifying a Vegetated or Non-vegetated state, with further dichotomous refinement to Level 5, which identifies the Vegetation Density Class related to Vegetated land, or specific Non-vegetated state cover such as beaches, mudflats etc.	N	NUMBER	2,0
<< 1998-03-26-11:31 sourced from:236464:332047 >>				
LEVEL DESCRIPTION	The description of the land classification level as supplied by the manual, Photo Interpretation Proceeedures.	Y	VARCHAR2	50
<< 1998-03-26-11:31 sourced from:236464:332048 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE a grouping category one or more BC LAND COVER CLASS CDS
MAY BE be a constituent member of one and only one BC LAND COVER LEVEL CD
MAY BE further decompose one or more BC LAND COVER LEVEL CDS
* = Relationships in primary unique identifier.

Unique Identifiers:

LCLC1 Primary Y
CLASSIFICATION LEVEL

Notes:

<< 1998-03-26-11:31 sourced from:236464:331727 >>

Entity Name: BCLCC BOUND SET			<i>Short Name:</i>	LCCBS
<i>Plural:</i>	BCLCC BOUND SETS			
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i> 500
			<i>Annual Growth Rate:</i>	2%

Description:

A set of constraints which specify the range of values of the BC

Land Cover Classification.

For example, the BC Land Cover Classification System is bound by a

number of restrictive ranges governing the association of a

classification to a polygon based on, among other things, the

percentage of tree coverage within the polygon (i.e. a polygon is

considered Treed if between 10 and 100 percent (inclusive) of the

polygons surface area, by crown closure, consists of tree species of

any size).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* LCCBS CODE		N	VARCHAR2	8
An alphanumeric code used to uniquely identify a BCLCC BOUND SET.				
<< 1998-03-26-11:14 sourced from:236464:563652 >>				
DESCRIPTION		Y	VARCHAR2	256
A description of the application of the BOUND SET				
(e.g. SUM(FIP.LAYER.CROWN CLOSURE AIR PCT) for all FIP based layers				
('1', '2', '3', 'V')).				
<< 1998-03-26-11:14 sourced from:236464:563653 >>				
BOUND MINIMUM		N	NUMBER	6,2
A number representing the minimum allowable value for the BOUND SET.				
<< 1998-03-26-11:14 sourced from:236464:563654 >>				
BOUND MAXIMUM		N	NUMBER	6,2
A number representing the maximum allowable value for the BOUND SET.				
<< 1998-03-26-11:14 sourced from:236464:563655 >>				

Data Administration
Entity Definition Report

Entity Name:	BCLCC BOUND SET (cont'd)	<i>Short Name:</i>	LCCBS
* = Attributes in primary unique identifier.			

Relationships:

Each Occurrence Of This Entity:

MAY BE restricted to one and only one SPECIES GROUP DEFINITION
MUST BE a constraint on one and only one BC LAND COVER CLASSIFICATION CD
* = Relationships in primary unique identifier.

Unique Identifiers:

LCCBS1	Primary	Y
LCCBS CODE		

Notes:

<< 1998-03-26-11:14 sourced from:236464:563646 >>

Entity Name: BCLCC FIP SOURCE DERIVATION RULE			Short Name:	LCCFS
Plural:	BCLCC FIP SOURCE DERVTN RULES			
Init. Volume:	23	Avg. Volume:	25	Max. Volume: 250
			Annual Growth Rate:	

Description:

A BC Land Cover Classification Derivation Rule specific to the

derivation of BC Land Cover Classifications from FIP based

information.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* LCCDR SKEY	SKEY 7	N	NUMBER	7,0
System generated surrogate identifier.				

Prefixed LCCDR to retain prefix of former supertype entity sourced

short name to reduce maintenance of reconcilliation or repository with

physical structures.

POLYGON NP DESCRIPTOR	FIP NON PRODUCTIVE	Y	VARCHAR2	5
A classification code describing land, water or wetland that is incapable of supporting commercial forests. A Non-Productive descriptor does not imply that the land is unproductive for other valuable resources, such as wildlife, fisheries, recreation, etc. The Non-Productive classification is one of the major classes in the Forest Classification System.				
<< 1998-03-26-11:33 sourced from:236464:564201 >>				

LAYER NON FOREST DESCRIPTOR	FIP NON FOREST	Y	VARCHAR2	5
A classification code indicating that the forest cover type is not currently forested, but is capable of supporting commercial forests. The Non-Forest Descriptor is distinctly different from the Non-Productive Descriptor found in the Polygon Record. The Non-Forest Descriptor indicates that the				

Data Administration
Entity Definition Report

Entity Name:	BCLCC FIP SOURCE DERIVATION RULE (cont'd)	Short Name:	LCCFS
---------------------	---	--------------------	-------

forest cover polygon is potentially productive, but is not currently supporting commercial forests, whereas the Non-Productive Descriptor indicates that the stand is not capable of supporting commercial forests.

<< 1998-03-26-11:33 sourced from:236464:564365 >>

SPECIES PERMITTED INDICATOR	INDICATOR	Y	VARCHAR2	1
-----------------------------	-----------	---	----------	---

A flag used to indicate whether or not species are permitted for the polygon in conjunction with the information contained in the FIP file. A value of 'N' indicates that no species are permitted to be associated with the polygon. A value of 'Y' indicates that species may be associated with the polygon but are not required.

For example: If the Polygon is described as being alpine, as indicated by a value of 'A' for non-productive descriptor, then the existence of species for this polygon is not allowed.

<< 1998-03-26-11:33 sourced from:236464:564366 >>

BCLCC_LEVEL_1		Y	VARCHAR2	3
---------------	--	---	----------	---

BC Land Classification Level 1 code (Land Base) to use as default.

<< 1998-03-26-11:33 sourced from:236464:572002 >>

BCLCC_LEVEL_2		Y	VARCHAR2	3
---------------	--	---	----------	---

BC Land Classification Level 2 code (Land Cover Type) to use as default.

<< 1998-03-26-11:33 sourced from:236464:572003 >>

BCLCC_LEVEL_3		Y	VARCHAR2	3
---------------	--	---	----------	---

BC Land Classification Level 3 code (Landscape Position) to use as default.

<< 1998-03-26-11:33 sourced from:236464:572004 >>

Entity Name:

BCLCC FIP SOURCE DERIVATION RULE (cont'd)

Short Name:

LCCFS

BCLCC_LEVEL_4

Y VARCHAR2

3

BC Land Classification Level 4 code (Vegetation Type/Non-Vegetated

Cover Type) to use as default.

<< 1998-03-26-11:33 sourced from:236464:572005 >>

BCLCC_LEVEL_5

Y VARCHAR2

3

BC Land Classification Level 5 code (Vegetated Density Class/

Subdivision of Non-Vegetated Category) to use as default.

<< 1998-03-26-11:33 sourced from:236464:572006 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE applied to one and only one BC LAND COVER CLASSIFICATION CD

* = Relationships in primary unique identifier.

Unique Identifiers:

LCCFS2

Primary

N

POLYGON NP DESCRIPTOR
LAYER NON FOREST DESCRIPTOR
BCLCC_LEVEL_1
BCLCC_LEVEL_2
BCLCC_LEVEL_3
BCLCC_LEVEL_4
BCLCC_LEVEL_5

LCCFS1

Primary

Y

LCCDR SKEY

Notes:

<< 1998-03-26-11:33 sourced from:236464:563640 >>

Entity Name:	BGC ZONAL CLASSFN LEVEL	<i>Short Name:</i>	BGCL
<i>Plural:</i>	BGC ZONAL CLASSFN LEVELS		
<i>Init. Volume:</i>	5	<i>Avg. Volume:</i>	10
		<i>Max. Volume:</i>	10
		<i>Annual Growth Rate:</i>	

Description:

The explicit levels that comprise the heirarchical BGC Zonal
Classifcation System.

Implemented to enforce the valid set of values.

Current values as of Jan 22, 1997 are:

ZONE

SUBZONE

PHASE

VARIANT

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* LEVEL NUM		N	NUMBER	2,0
A number used to order the segments that comprise the BGC code.				
These are:				
BGC ZONE				
BGC SUBZONE				
BGC VARIANT				
BGC PHASE				
<< 1998-03-26-11:35 sourced from:236464:433864 >>				
LEVEL CD		N	VARCHAR2	10
<< 1998-03-26-11:35 sourced from:236464:547450 >>				
DESCRIPTION		Y	VARCHAR2	50
<< 1998-03-26-11:35 sourced from:236464:433865 >>				

Entity Name:	BGC ZONAL CLASSFN LEVEL (cont'd)	Short Name:	BGCL
---------------------	----------------------------------	--------------------	------

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE composed of one or more BGC ZONAL CLASSFN CDS
 - MAY BE consists of one or more BGC ZONAL CLASSFN LEVELS
 - MAY BE is part of one and only one BGC ZONAL CLASSFN LEVEL
- * = Relationships in primary unique identifier.

Unique Identifiers:

BGCL1	Primary	Y
LEVEL NUM		

Notes:

!A 22-JAN-97 JRT

- although this is a very short list of valid entries, it was

implemented as a table with a relationship to the BCC ZONAL

CLASSIFCATION CD's so that the heirarchial structure of the segmenets

could be driven into the pig's ear relationship to itself.

Entity Name: BGC ZONAL CLASSIFCATION CD		<i>Short Name:</i>	BGZC
<i>Plural:</i>	BGC ZONAL CLASSFN CDS		
<i>Init. Volume:</i>	300	<i>Avg. Volume:</i>	500
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	

Description:

An areal unit that represents classes of ecosystems under the influence of the same regional climate. The units represent broad homogenous macroclimate with characteristic plant orders, prevailing soil forming processes and one or more typical major climax species of tree, shrub, herb and/or moss.

The units are defined under the Ministry of Forest's Biogeoclimatic Ecosystem Classification (BGC) system.

A Ministry of Forests Standard Table.

Data Custodian: Research Ecologist, Integrated Resource Management Section, Research Branch.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BGC SKEY	SKEY 7	N	NUMBER	7,0
System generated UID from ORACLE SEQUENCE bgc_zone_seq.				

<< 1998-03-26-11:35 sourced from:236464:435090 >>

BGC CD	N	VARCHAR2	8
A code used to reference the full Bio-Geoclimatic code.			

Entity Name:	BGC ZONAL CLASSIFCATION CD (cont'd)	Short Name:	BGZC
---------------------	-------------------------------------	--------------------	------

<< 1998-03-26-11:35 sourced from:236464:433867 >>

DESCRIPTION	N VARCHAR2	50
-------------	------------	----

<< 1998-03-26-11:35 sourced from:236464:433868 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a grouping for one or more BGC ZONAL CLASSFN CDS
- MAY BE a parameter for one or more UTILIZATION LEVEL AREA ASSNS
- MAY BE a subdivision of one and only one BGC ZONAL CLASSIFCATION CD
- MAY BE assessed by one or more SITE FEATURE ASSMTS
- MAY BE defined vegetatively one or more SITE SERIES CDS
- MAY BE defining one or more BUSINESS OBJECT VALUE BOUNDS
- MAY BE spatially containing one or more GIS RESULTANTS
- MUST BE an occurrence of one and only one BGC ZONAL CLASSFN LEVEL

* = Relationships in primary unique identifier.

Unique Identifiers:

BGZC1	Primary	Y
BGC SKEY		

Notes:

A! 21 JAN 97 JRT

This definition and the correspodng data was copied from the

GYDV51.1 model and database. The design intention here was to

normalize the heirarchical definition/strucure of the code.

<< 1998-03-26-11:35 sourced from:236464:433200 >>

Entity Name:	BIOMETRIC DESIGN SPECIFICATION			<i>Short Name:</i>	BDSPEC
<i>Plural:</i>	BIOMETRIC DESIGN SPECIFICATIONS				
<i>Init. Volume:</i>	1500	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	2500
				<i>Annual Growth Rate:</i>	10%

Description:

An association of taxonomic or species group characteristics (such as minimum and maximum dbh for commercial trees) and the plot delimiters (the area over which these species/taxonomic groups are measured) of a sample or BIOMETRIC DESIGN.

Some Design Specs do not have an area component. For example, aerial photo interpretations would be for certain tree and/or vegetation species but the areas are derived from the polygons delimited during the interpretations. For Veg Ground samples, there is a definitive set of plot sizes to be used for ALL sampling.

To reflect field conditions, portions of the prescribed plot sizes may be used e.g. where partially damaged. These actual field observations are recorded in CLUSTER ELEMENTS.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BD SPEC SKEY	SKEY 7	N	NUMBER	7,0
System generated UID.				

<< 1998-03-25-16:36 sourced from:236464:612338 >>

Former name of CLUSTER ELEMENT SPECIFICATION retained.

EFFECTIVE DATEN DATE

Entity Name: BIOMETRIC DESIGN SPECIFICATION (cont'd)

Short Name:

BDSPEC

The calendar date when use of the Biometric Design Specification became effective.

<< 1998-03-25-16:36 sourced from:236464:612339 >>

TERMINATION DATE

Y

DATE

The calendar date when use of the Biometric Design Specification was terminated.

<< 1998-03-25-16:36 sourced from:236464:612340 >>

DESCRIPTION

Y

VARCHAR2

256

Business description of the specification.

<< 1998-03-25-16:36 sourced from:236464:612345 >>

CREATE DATE

N

DATE

<< 1998-03-25-16:36 sourced from:236464:612341 >>

CREATE USER ID

N

VARCHAR2

30

<< 1998-03-25-16:36 sourced from:236464:612342 >>

MODIFY DATE

Y

DATE

<< 1998-03-25-16:36 sourced from:236464:612343 >>

MODIFY USER ID

Y

VARCHAR2

30

<< 1998-03-25-16:36 sourced from:236464:612344 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE specfications for one or more CLUSTER ELEMENTS

MUST BE defined by one and only one SUBPOPULATION

MUST BE delineated by one and only one SPATIAL DELIMITER

* = Relationships in primary unique identifier.

Unique Identifiers:

BDSPEC1

Primary

Y

BD SPEC SKEY

Notes:

Data Administration
Entity Definition Report

Entity Name:	BIOMETRIC DESIGN SPECIFICATION (cont'd)	<i>Short Name:</i>	BDSPEC
---------------------	---	--------------------	--------

<< 1998-03-25-16:36 sourced from:236464:612326 >>

Data Administration
Entity Definition Report

Entity Name: BREAKAGE				<i>Short Name:</i> BRKF	
<i>Plural:</i> BREAKAGE FACTORS					
<i>Init. Volume:</i> 50		<i>Avg. Volume:</i> 50		<i>Max. Volume:</i> 50	
				<i>Annual Growth Rate:</i> 5%	
<i>Subtype of:</i> ADJUSTMENT FACTOR					

Description:

A factor to approximate breakage of wood in the course of its
extraction during harvesting operation.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-26-11:37 sourced from:236464:427163 >>

Entity Name: BRUSHING TREATMENT		<i>Short Name:</i> BT	
<i>Plural:</i>	BRUSHING TREATMENTS		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>
<i>Subtype of:</i>	TREATMENT		

Description:

The removal of competing brush species which permits the preferred (crop) tree species to grow at an accelerated rate.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
PESTICIDE SPREAD RATE		Y	NUMBER	6,2
The rate of application of a herbicide (usually) that is targeted for undesired shrub species that may compete with the preferred crop trees.				

<< 1998-03-26-15:05 sourced from:7003:232998 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE effected via one and only one PESTICIDE

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-15:05 sourced from:7003:232615 >>

Entity Name:	BUSINESS OBJECT ASSESSMENT			<i>Short Name:</i>	BOA
<i>Plural:</i>	BUSINESS OBJECT ASSESSMENTS				
<i>Init. Volume:</i>	2000000	<i>Avg. Volume:</i>	4000000	<i>Max. Volume:</i>	6000000
				<i>Annual Growth Rate:</i>	10%

Description:

The occurence of a set of observed or derived values

against an object of business interest. This entity serves two

purposes:

-to set the bounds of the association(s) of business attribute

(objects) for all child entities (e.g. '...ASSESSMENTS')

-in practical business terms, retention of miscellaneous attribution,

e.g. FIP NON FOREST DESC CD, OPERABILITY CD, QUADRATIC MEAN DIAMETER

etc.

For example, in the first case above, a tree volume could be related

to a species of a layer, or may be related to all species of a layer,

either of which is determinable from the relationship to TREE SPECIES

LAYER COMPOSITION or TREE LAYER respectively.

This entity, formerly named BUSINESS ATTRIBUTE, previously contained

all business collected and derived attributes. Where specific

business clarity of business attribution was required, the attribution

was separated into the following related entities:

VEGETATIVE VOLUME ASSESSMENT,

SITE INDEX ASSESSMENT,

MEAN HEIGHT ASSESSMENT,

Entity Name: BUSINESS OBJECT ASSESSMENT (cont'd)

Short Name:

BOA

MEAN DIAMETER ASSESSMENT,

BASAL AREA ASSESSMENT,

CULMINATION ASSESSMENT,

DENSITY ASSESSMENT,

YEAR OF ORIGIN ASSESSMENT

The above entities will inherit the business association from the

parent BUSINESS OBJECT ASSESSEMENT.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BUSINESS OBJECT SKEY		N	NUMBER	14,0
System generated UID from ORACLE sequence ADA_SEQ.				
<< 1998-03-26-13:07 sourced from:236464:426752 >>				
CREATE USER ID		N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<< 1998-03-26-13:07 sourced from:236464:422006 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was				
created.				
<< 1998-03-26-13:07 sourced from:236464:422005 >>				
MODIFY USER ID		Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				
<< 1998-03-26-13:07 sourced from:236464:422008 >>				
MODIFY DATE		Y	DATE	

Entity Name:	BUSINESS OBJECT ASSESSMENT (cont'd)	Short Name:	BOA
---------------------	-------------------------------------	-------------	-----

The date the record was last modified.

<< 1998-03-26-13:07 sourced from:236464:422007 >>

FIP NON FOREST DESC CD	FIP NON FOREST	Y	VARCHAR2	5
Non commercial forest vegetation on a	DESCRIPTOR			

polygon that is capable of supporting commerical forests. Maps
directly to the FIP attribute, NON FOREST DESCRIPTOR and is
also utilized for the determination of the BC Land Cover
Classification.

This is a FIP classification based attribute only, and is retained
for the purposes of business transition from FIP to Vegetation
Inventory. (The understanding is that this and associated values do
not resolve to a single BC Land Classification value, and
consequently cannot be replicated from the Vegetative Cover database.

The current growth projection model, 'VDYP', requires this attribute
and will not be replaced in within two years.

There is no expection that this attribute would be updated or created
under Vegetation Inventory classification practise. (97-06, JH)

<<1997-11-18-15:24 sourced from:236464:524043>>

<< 1998-03-26-13:07 sourced from:236464:670142 >>

FIP STOCKING CLASS CD	FIP STOCKING CLASS	Y	VARCHAR2	1
A FIP base attribute that is sematically overloaded with meaning. It				

is being retained in the Vegetative Cover database to facilitate the
interim operation of the tree volume derivation routine, VDYP.

Entity Name:	BUSINESS OBJECT ASSESSMENT (cont'd)	Short Name:	BOA
---------------------	-------------------------------------	--------------------	-----

Stocking Class variously means:

immature, mature trees, density and diameter distribution
combinations for certain tree species, and harvested with a remaining
canopy.

It is expected that this attribute will be eliminated once VDYP
dependencies are removed.

<< 1998-03-26-13:07 sourced from:236464:733569 >>

FIP STOCKING CLASS SOURCE CD	FIP STOCKING CLASS	Y	VARCHAR2	1
The source of FIP based Stocking Class attribute. Originally				

determined by the interpreter of forest cover classification, it can
also be assigned if missing by a table lookup or

<< 1998-03-26-13:07 sourced from:236464:735741 >>

NON STANDARD VALUE		Y	VARCHAR2	75
The value of a attribute that is not part of the Vegetation				

Inventory standard for data collection.

This attribute is designed to accomodate collected data on a
specialized or project or locational basis where it is determined that
there is a particular data collection requirement.

For example, in some locations, the occurence of 'culturally modified
trees' is of inportance, and assuming a standardized classification
system, then the value of the observation would be retained in this
attribute with an association with NON STANDARD ATTRIBUTE DEFINITION.

Entity Name: BUSINESS OBJECT ASSESSMENT (cont'd)

Short Name: BOA

<<1997-11-18-15:24 sourced from:236464:508511>>

<< 1998-03-26-13:07 sourced from:236464:670139 >>

FIP TYPE ID REFERENCE	FIP TYPE IDENTITY	Y	NUMBER	1
-----------------------	-------------------	---	--------	---

A FIP file sourced legacy attribute that categorizes various differing layer characteristics. Stocking class (itself often derived), non-forest descriptor and non-productive descriptor are the contributing attributes.

Type Id Reference is required for VDYP input; for FIP sourced records it would be directly loaded from FIP, for Vegetation Inventory it would be derived from a rule.

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE recorded for one and only one TREE LAYER SPP COMPOSITION
or MAY BE recorded for one and only one INTERPRETATION
MAY BE described by one or more NON STANDARD VALUES
MAY BE further qualified by one or more BASAL AREA ASSESSMENTS
MAY BE further qualified by one or more CULMINATION ASSESSMENTS
MAY BE further qualified by one or more DATE OF ORIGIN ASSESSMENTS
MAY BE further qualified by one or more DENSITY ASSESSMENTS
MAY BE further qualified by one or more MEAN DIAMETER ASSESSMENTS
MAY BE further qualified by one or more MEAN HEIGHT ASSESSMENTS
MAY BE further qualified by one or more SITE INDEX ASSESSMENTS
MAY BE further qualified by one or more VEGETATION VOLUME ASSESSMENTS
MAY BE have a related observation of one and only one ADJUSTMENT FACTOR

* = Relationships in primary unique identifier.

Unique Identifiers:

BOA1	Primary	Y
BUSINESS OBJECT KEY		

Notes:

<< 1998-03-26-13:07 sourced from:236464:363706 >>

Entity Name: BUSINESS OBJECT VALUE BOUND				<i>Short Name:</i>	BOVB
<i>Plural:</i>	BUSINESS OBJECT VALUE BOUNDS				
<i>Init. Volume:</i>	200	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	1000
				<i>Annual Growth Rate:</i>	2%

Description:

Minimum and/or maximum values for a business object that is dependent on any related object.

That is to say, this entity contains value bound sets where minimum and/or maximum values are dependent on tree species, or tree species group, Coast/Interior code (known dependencies to date, 98-07).

The purpose of the bound sets is to reflect minimum and/or maximum values that are within the bounds of database constraints (enforced by rules). For example, the database enforced bounds for tree age are 0 to 999. However, for a given tree species in an region (interior/coast) say, *Alnus rubra* on the coast, the maximum would be 0 to 200 years.

The envisioned use of this entity is to apply maximum age, height for a tree species and Coast/Interior code. The relationship to BGC ZONAL CLASSIFICATION has been added in the expectation that an ecologically based bound set would be later introduced.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BOUND SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				
BUSINESS OBJECT NAME	CHAR 30	N	VARCHAR2	30
The business name of the object to which the minimum and maximum				

Data Administration
Entity Definition Report

Entity Name:	BUSINESS OBJECT VALUE BOUND (cont'd)	<i>Short Name:</i>	BOVB
---------------------	--------------------------------------	--------------------	------

values apply.

Expected examples are:

Tree Volume

Tree Diameter

Tree Height

Tree Height Ratio

Tree Site Index

Tree Mean Annual Increment

Tree Age (in years)

UNIT OF MEASURE	CHAR 30	Y	VARCHAR2	30
-----------------	---------	---	----------	----

The unit of measure the bound values are in.

Expected values would be:

meters

years

m** per hectare

unitless

MAX NUMERIC BOUND	Y	CHAR	12
-------------------	---	------	----

The maximum numeric bound of the value.

MIN NUMERIC BOUND	Y	CHAR	12
-------------------	---	------	----

The minmum bounding value.

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE belonging to one and only one BGC ZONAL CLASSIFCATION CD

MAY BE belonging to one and only one COAST INTERIOR AREA

Data Administration
Entity Definition Report

Entity Name:	BUSINESS OBJECT VALUE BOUND (cont'd)	Short Name:	BOVB
---------------------	--------------------------------------	--------------------	------

MAY BE belonging to one and only one COAST INTERIOR AREA
MAY BE belonging to one and only one GROUP TAXONOMIC MEMBERSHIP
MAY BE child of one and only one BUSINESS OBJECT VALUE BOUND
MAY BE parent of one or more BUSINESS OBJECT VALUE BOUNDS
* = Relationships in primary unique identifier.

Unique Identifiers:

BOVB1	Primary	Y
BOUND SKEY		

Entity Name: CLASS INTERVAL GROUP			<i>Short Name:</i>	CIG
<i>Plural:</i>	CLASS INTERVAL GROUPS			
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i> 500
			<i>Annual Growth Rate:</i>	1%

Description:

The group of class intervals which is applied to a data frequency count collection purpose. For example, there may be a group of diameter classes for dead trees, another for site indices, live dead trees for a certain sampling initiative etc.

This can be used for more than diameter classes.

A further enhancement would be to have an associative relationship to DESIGN SPECIFICATION, as typically, an INTERVAL GROUP be specific to a data collection initiative.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CLASS INTERVAL SKEY A system generated surrogated identifier.	SKEY 7	N	NUMBER	7,0
DESCRIPTION A text description used to label the class for reporting.	DESC 75	Y	VARCHAR2	75
FEATURE The predominant tree feature, measured or assessed, that is classified. The word 'predominant' is used as some diameter classifications actualy use a height at the lower bound. Examples would be Diameter, Site Index, Height, Crown Closure etc.	TREE FEATURE	N	VARCHAR2	15
CLASS INTERVAL The predominate internal the diameter class is based on. Typically	NUM 4 1	N	NUMBER	4,1

Entity Name: CLASS INTERVAL GROUP (cont'd)

Short Name: CIG

a diameter class is based on a specific interval. Eg. 5 cm., applying
to diameter class 5.0 - 9.9, 10.0 - 15.0 etc. However, at each end
of the range an exception may apply to accomodate practical
considerations, eg. 100.0 cm.

MEASMT SYSTEM AS DESIGNED MEASMT SYSTEM Y VARCHAR2 2

The measurement system, either imperial or metric, that is the basis
for the design of the classes. All Upper and Lower Bounds (of DIAM
CLASS CODE) are in metric units, although some were converted from the
original bounds in imperial units.

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE composed of one or more INTERVAL CLASSES
* = Relationships in primary unique identifier.

Unique Identifiers:

CIG1 Primary Y

CLASS INTERVAL SKEY

Entity Name:	CLIENT LOCN TEMP	Short Name:	CLT
Plural:	CLIENT LOCN TEMP		
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:

Description:

It is thought to be a temporary table for the purposes of loading data

from the VM Forest Client system into the Resources Inventory Branch

Oracle application containing the AGENCIES and CLIENT_LOCATIONS

tables.

Used in GYD_INTERFACE.PB.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
ADDRESS 1		Y	VARCHAR2	40
ADDRESS 2		Y	VARCHAR2	40
CITY		Y	VARCHAR2	30
CL LOCN		Y	VARCHAR2	2
CL NUMBER		Y	VARCHAR2	8
COUNTRY		Y	VARCHAR2	2
LOCN NAME		Y	VARCHAR2	40
POSTAL CODE		Y	VARCHAR2	10
UPD FLAG		Y	VARCHAR2	1
PROVINCE		Y	VARCHAR2	5

* = Attributes in primary unique identifier.

Entity Name:	CLIENT TEMP	<i>Short Name:</i>	CT
<i>Plural:</i>	CLIENT TEMP		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

It is thought to be a temporary table for the purposes of loading data

from the VM Forest Client system into the Resources Inventory Branch

Oracle application containing the AGENCIES and CLIENT_LOCATIONS

tables.

It is used in GYD_INTERFACE.PB.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CL NAME		Y	VARCHAR2	60
CL NUMBER		Y	VARCHAR2	8
FIRST NAME		Y	VARCHAR2	30
MIDDLE NAME		Y	VARCHAR2	30
TYPE CODE		Y	VARCHAR2	1
UPD FLAG		Y	VARCHAR2	1

* = Attributes in primary unique identifier.

Entity Name: CLUSTER ELEMENT				<i>Short Name:</i>	CELMT
<i>Plural:</i>	CLUSTER ELEMENTS				
<i>Init. Volume:</i>	150000	<i>Avg. Volume:</i>	250000	<i>Max. Volume:</i>	300000
				<i>Annual Growth Rate:</i>	15%

Description:

The implementations of a 'plot' at a location at which an object(s) of interest is measured or assessed. This is a linkage of a BIOMETRIC DESIGN SPECIFICATION to a location at a point in time.

With this convention, the representation of the concentrically nested Inventory Branch termed 'Main Plot' and 'Sub Plot' (at a common plot centre) would be two CLUSTER ELEMENTs.

Note that concentrically nested plots share the same POINT LOCATION VISITATION. Non-concentric nested plots would each have a unique POINT LOCATION VISITATION inside a larger plot.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CLUSTER ELEMENT SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-26-14:39 sourced from:346868:544083 >>				
PLOT IDENTIFIER	CHAR 8	Y	VARCHAR2	8
An up to 8 character identifier to be used as a unique identifier for Cluster Element (Subpopulation, Spatial Delimiter intersection) in a Plot Cluster.				
Generally this identifier will be used for the 'Plot Number' associated with a Cluster Element.				
<< 1998-03-26-14:39 sourced from:346868:561058 >>				

Entity Name:

CLUSTER ELEMENT (cont'd)

Short Name:

CELMT

AZIMUTH BEARING

AZIMUTH BRG

Y

NUMBER

3,0

For transect (line) type Spatial Delimiters, this is the Azimuth

bearing of the transect line from the plot center represented by the

relationship to Point Location.

<< 1998-03-26-14:39 sourced from:346868:561059 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE visted during one or more POINT LOCATION VISITATIONS

MUST BE observed for one and only one BIOMETRIC DESIGN SPECIFICATION

* = Relationships in primary unique identifier.

Unique Identifiers:

CELMT1

Primary

Y

CLUSTER ELEMENT SKEY

Notes:

<< 1998-03-26-14:39 sourced from:346868:544077 >>

Entity Name: CLUSTER ELMT MEASMT				Short Name:	CLMT
Plural:	CLUSTER ELMT MEASMTS				
Init. Volume:	15000	Avg. Volume:	100000	Max. Volume:	150000
				Annual Growth Rate:	5%

Description:

The generic grouping of the event of measuring a population element.

To date (95-11), the grouping includes TREE MEASUREMENTS, the collection of data about trees and tree diameter class counts (SPECIES DIAMETER CLASS FREQUENCY COUNT).

The grouping is made to accomodate future measurements on other population elements, such as Coarse Woody Debris and Forage Production assessments as expected in the Vegetation Inventory program. This grouping simplifies the number of relationships that would be required otherwise. All present and future members of the group share the same relationships to SUBPOPULATION (defines the population element e.g. tree or tree diameter class), SPATIAL DELIMETER (defines the physical plot bounds) the event and collection of data (if any) at a location CLUSTER ELEMENT VISITATION.

In data modelling terms, it is the supertype of more than one subtype entities.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- MAY BE further assessed by one or more AGE ASSMTS
- MAY BE performed by one or more ROLE ASSOCIATIONS

Entity Name:	CLUSTER ELMT MEASMT (cont'd)	<i>Short Name:</i>	CLMT
---------------------	------------------------------	--------------------	------

MUST BE assessing one and only one INDIVIDUAL TREE
MUST BE measured during one and only one POINT LOCATION VISITATION
* = *Relationships in primary unique identifier.*

Notes:

<< 1998-03-26-10:24 sourced from:346868:348631 >>

Subtypes:

- NON TREE ELEMENT ASSMT
- TREE MEASUREMENT

Data Administration
Entity Definition Report

Entity Name: COARSE WOODY DEBRIS DECAY ASSMT				Short Name:	CWDD
Plural:	CWD DECAY ASSMTS				
Init. Volume:	1500	Avg. Volume:	2500	Max. Volume:	5000
				Annual Growth Rate:	10%

Description:

The DECAY CLASS and % observed for Coarse Woody Debris measurements

per Col 13-15 on Ccard 6 and 7 - Coarse Woody Debris (EW).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DECAY CLASS CD << 1998-03-26-15:00 sourced from:7003:555498 >>	DECAY CLASS - COARSE WOODY DEBRIS	N	VARCHAR2	1
PERCENT OBSERVED << 1998-03-26-15:00 sourced from:7003:555506 >>		Y	NUMBER	3,0

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- * MUST BE recorded for one and only one COARSE WOODY DEBRIS MEASMT
- * = Relationships in primary unique identifier.

Unique Identifiers:

CWDD1	Primary	Y
MUST BE recorded for one and only one COARSE WOODY DEBRIS MEASMT		
DECAY CLASS CD		

Notes:

<< 1998-03-26-15:00 sourced from:7003:555492 >>

Entity Name: COARSE WOODY DEBRIS MEASMT				<i>Short Name:</i>	CWDM
<i>Plural:</i>	COARSE WOODY DEBRIS MEASMTS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	5000
<i>Subtype of:</i>	NON TREE ELEMENT ASSMT				
<i>Annual Growth Rate:</i>					

Description:

The assessment of Coarse Woody Debris as defined in

the subpopulation that are common to all categories.

The two main categories of Coarse Woody Debris

assessment are; Pieces and Accumulations.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CWD SKEY		N	NUMBER	7,0
The surrogate identifier of a Coarse Woody Debris measurement.				
<< 1998-03-26-15:00 sourced from:7003:399711 >>				
SOURCE NUM		N	NUMBER	3,0
The identifying number supplied from the field sheet (source) from				
the pre-printed first column. This is unique within the context of a				
transect.				
<< 1998-03-26-15:00 sourced from:7003:399710 >>				
DECAY CLASS CD	DECAY CLASS - COARSE WOODY DEBRIS	N	VARCHAR2	1
<< 1998-03-26-15:00 sourced from:7003:223232 >>				
LENGTH GREATER THAN 3M IND	INDICATOR	Y	VARCHAR2	1
The indication that the item assessed as coarse				
woody debris is greater than 3.0 m in length.				
<< 1998-03-26-15:00 sourced from:7003:223236 >>				
LIKELY TO BE REMOVED IND	INDICATOR	Y	VARCHAR2	1
The indication that the item assessed as coarse				
woody debris is likely to be removed, eg. merchantable logs.				
<< 1998-03-26-15:00 sourced from:7003:223237 >>				
PIECE LENGTH		Y	NUMBER	4,2

Entity Name: COARSE WOODY DEBRIS MEASMT (cont'd)

Short Name: CWDM

The length of the coarse woody debris piece measured to the nearest

0.1m per Chapter 8 - Vegetation Ground Sample Procedures.

<< 1998-03-26-15:00 sourced from:7003:556068 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE additionally described by one or more CWD DECAY ASSMTS

* = Relationships in primary unique identifier.

Unique Identifiers:

CWDM1	Primary	Y
CWD SKEY		

Notes:

This entity is intended for physical implementation.

<< 1998-03-26-15:00 sourced from:7003:222098 >>

Subtypes:

CWD ACCUMULATION

CWD PIECE

Entity Name: COAST INTERIOR AREA			Short Name:	CIA
Plural:	VGIS COAST INTERIOR AREAS			
Init. Volume:	10	Avg. Volume:	20	Max. Volume: 50
			Annual Growth Rate:	0%

Description:

The designation of a coastal or interior portion of BC. This designation reflects a primitive delination used to assign different sets of utlization levels.

NB: This attribution is stored at the Region/Compartment/Compartment Letter level; that is, each of these subdivisions has an Coast or Interior designation. However, vegetation cover polygons may in fact bisect the Coast/Interior line, in which case the Coast/Interior is assigned to one (typically on the basis of greatest area) from this entity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* COAST INTERIOR CD	COAST INTERIOR	N	VARCHAR2	1
A code to denote the designation of interior or coastal portions of BC				
Used where there are different factors applied to the separate areas.				
<< 1998-03-27-09:57 sourced from:346868:506810 >>				
DESCRIPTION	DESC 75	Y	VARCHAR2	75
A text description of the Coast Interior area.				
<< 1998-03-27-09:57 sourced from:346868:514131 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- MAY BE a parameter for one or more UTILIZATION LEVEL AREA ASSNS
- MAY BE aggregating one or more POLYGONS
- MAY BE aggregating one or more VGIS RCL AREA VALIDN CODES
- MAY BE aggregating one or more VGIS RCL AREA VALIDN CODES
- MAY BE defining one or more BUSINESS OBJECT VALUE BOUNDS
- MAY BE geographic identifier of one or more VDYP APPLICATION BOUNDS

Entity Name:	COAST INTERIOR AREA (cont'd)	Short Name:	CIA
---------------------	------------------------------	--------------------	-----

* = Relationships in primary unique identifier.

Unique Identifiers:

CIA1	Primary	Y
COAST INTERIOR CD		

Notes:

<< 1998-03-27-09:57 sourced from:346868:506809 >>

Entity Name: CONTRACT				<i>Short Name:</i>	CON
<i>Plural:</i>	CONTRACTS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	800
				<i>Annual Growth Rate:</i>	2%

Description:

In the context of the natural resource inventory business, an agreement to undertake prescribed work for a given price.

This is a large business area, and is being included to recognize work undertaken for vegetation inventory purposes where map and attribute updates occur.

There will likely be other inventory initiatives by contract that will not be included in the MUMS application. This entity could be replaced in time, by a link to a contract management application, if and when built.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CONTRACT SKEY		N	NUMBER	7,0
The surrogate identifier for a contract.				
Populated from Oracle sequence, CONTRACT SKEY SEQ.				
<< 1998-03-25-16:59 sourced from:416792:435085 >>				
CONTRACT NUM		N	VARCHAR2	25
The Ministry assigned number for the contract, usually comes from the pre-printed paper form.				
A? data type unknown at this time (97-01-08). it may be a number (as indicated in the requirements document) or it may be alphanumeric. To be determined.				
<< 1998-03-25-16:59 sourced from:416792:420480 >>				

Entity Name:

CONTRACT (cont'd)

Short Name:

CON

START DATE

Y

DATE

The date the contract is to begin, as stated in the contract document.

<< 1998-03-25-16:59 sourced from:416792:420492 >>

ESTIMATED END DATE

Y

DATE

The date the contract is expected to finish.

A? the actual source is unknown at this time (97-01-08). This could be the termination date of the initial contract, or of any subsequent amendments, of or the contract administrator's estimate prior to award.

<< 1998-03-25-16:59 sourced from:416792:420493 >>

ACTUAL END DATE

Y

DATE

The date the contract ended, including any subsequent amendments to the original contract.

<< 1998-03-25-16:59 sourced from:416792:420494 >>

CREATE DATE

N

DATE

<< 1998-03-25-16:59 sourced from:416792:492767 >>

MODIFY DATE

Y

DATE

<< 1998-03-25-16:59 sourced from:416792:492768 >>

CREATE USER ID

ORACLE USER

N

VARCHAR2

30

<< 1998-03-25-16:59 sourced from:416792:492769 >>

MODIFY USER ID

ORACLE USER

Y

VARCHAR2

30

<< 1998-03-25-16:59 sourced from:416792:492770 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE subject to one or more ROLE ASSOCIATIONS
MAY BE undertaking one or more MAP UPDATE ACTIVITIES
MUST BE executing one and only one VGIS PROJECT

* = Relationships in primary unique identifier.

Unique Identifiers:

CON2

Primary

N

CONTRACT NUM

CON1

Primary

Y

Data Administration
Entity Definition Report

Entity Name:	CONTRACT (cont'd)	<i>Short Name:</i>	CON
---------------------	-------------------	--------------------	-----

CONTRACT SKEY

Notes:

<< 1998-03-25-16:59 sourced from:416792:418239 >>

Entity Name: COORDINATE SET				<i>Short Name:</i>	CSET
<i>Plural:</i>	COORDINATE SETS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	5000
			<i>Annual Growth Rate:</i>		

Description:

The coordinate position of an physical location that belongs to a sample. The coordinate data may be collected by GPS instruments, map based GIS overlays or other means.

It is expected that there may be more than one coordinate for the same Point Location, although there should be only one that represents the location, or centroid of many locations, where the is a generalized requirement such as GIS applications. Hence the expected identification of only one coordinate set at each Point Location Visitation for use (e.g. BEST REPRESENT USE IND).

NB: This could be expanded to include identification of a coordinate system: e.g. local, map projection based, world etc.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* COORDINATE SKEY		N	NUMBER	7,0
Surrogate key for coordinate set.				
<< 1998-03-26-15:06 sourced from:7003:344028 >>				
COORD COLLTN DATE		Y	DATE	
COLLECTION METHOD CD	COORD COLLECTION METHOD	Y	VARCHAR2	5
The method by which the geographic coordinates were collected for a location. This may even reflect that the coordinates were derived, usually by traversing a set distance and bearing, from a proximate location that was collected by a GPS instrument.				
<< 1998-03-26-15:06 sourced from:7003:344023 >>				

Data Administration
Entity Definition Report

Entity Name: COORDINATE SET (cont'd)			Short Name:	CSET
DATUM	NAD DATUM	Y VARCHAR2	4	
COORDINATE SYSTEM	COORD REFERENCE SYSTEM	Y VARCHAR2	20	
The geographic system from which all positional information is referenced. This can be in the form of a coordinate system (e.g. latitude and longitude) or a projection system (UTM etc.)				
X COORD		Y NUMBER	9,3	
The X geographic coordinate. Depending the COORDINATE SYSTEM, the X coordinate would be termed easting (in metres) or latitude (in degrees and decimal fraction).				
<< 1998-03-26-15:06 sourced from:7003:344019 >>				
Y COORD		Y NUMBER	10,3	
The Y geographic coordinate. Depending the COORDINATE SYSTEM, the Y coordinate would be termed northing (in metres) or longitude (in degrees and decimal fraction).				
<< 1998-03-26-15:06 sourced from:7003:344020 >>				
Z COORD	TERRESTRIAL ELEVATION	Y NUMBER	6,2	
The elevation or Z coordinate, in metres, above a datum reference.				
<< 1998-03-26-15:06 sourced from:7003:344021 >>				
BEST REPRES USE IND	INDICATOR DEFAULT N	N VARCHAR2	1	
An affirmation that the coordinate set is deemed the most precise for the purpose of representing the location. Only one coordinate set would be representative for a given location and plot cluster.				
<< 1998-03-26-15:06 sourced from:7003:344035 >>				
UTM ZONE	UTM ZONE ALL BC	Y NUMBER	2,0	
* = Attributes in primary unique identifier.				

Relationships:
Each Occurrence Of This Entity:

Data Administration
Entity Definition Report

Entity Name:	COORDINATE SET (cont'd)	<i>Short Name:</i>	CSET
---------------------	-------------------------	--------------------	------

MAY BE geographically positioning one and only one PLOT CLUSTER
or MAY BE supplied from one and only one GPS FILE
* = *Relationships in primary unique identifier.*

Unique Identifiers:

CSET1	Primary	Y
COORDINATE SKEY		

Notes:

<< 1998-03-26-15:06 sourced from:7003:344012 >>

Data Administration
Entity Definition Report

Entity Name: CORP ORG UNIT			Short Name:	MOUT
Plural: CORP ORG UNIT				
Init. Volume:		Avg. Volume:	Max. Volume:	Annual Growth Rate:

Description:

Records codes for ministry Organizational Units (offices),

such as Branch, Region, or District office. Codes are

currently defined to the office, section/program, and

subsection level.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ORG UNIT NO Unique physical identifier for the storage of organizational unit codes for the Ministry of Forests' offices. Values stored here are for the computer's use only, and are not to be used by people as "ministry codes".		N	NUMBER	5
ORG UNIT CODE Identifies any office within the ministry. First character identifies Exec, HQ Branch, Region, or District; next two chars identify the office name; next two the section (HQ Branch) or program (Region or District); last char identifies the subsection.		N	CHAR	6
ORG UNIT NAME The name or title of a ministry office or section; for example Kamloops Forest Region; Silviculture Branch; Kispiox Forest District Protection program.		N	VARCHAR2	100
AREA CODE A 3-digit number that identifies each telephone service area in a country.		N	CHAR	3
TELEPHONE NO The general office telephone number (excluding the area code) for a Ministry of Forests office.		N	CHAR	7
ORG LEVEL CODE		N	CHAR	1

Entity Name:	CORP ORG UNIT (cont'd)	<i>Short Name:</i>	MOUT
---------------------	------------------------	--------------------	------

Represents the organizational level of the Ministry, and

is one of D District Forestry Office, E Executive, H

Headquarters Branch, and R Regional Forestry Office.

ROLLUP REGION NO	N	INTEGER
------------------	---	---------

Identifier designating the region to which the org unit

is rolled into for reporting purposes. Values stored

here are for the computer's use only, and are not to be

used by people as "Ministry codes".

ROLLUP REGION CODE	N	CHAR	6
--------------------	---	------	---

Identifier designating the region to which the org unit is rolled into

for reporting purposes.

ROLLUP DIST NO	N	INTEGER
----------------	---	---------

Identifier designating the district to which the org

unit is rolled into for reporting purposes. Values

stored here are for the computer's use only and are not

to be used by people as "Ministry codes".

ROLLUP DIST CODE	N	CHAR	6
------------------	---	------	---

Identifier designating the district to which the org

unit is rolled into for reporting purposes.

EFFECTIVE DATE	Y	DATE
----------------	---	------

The date the Organizational Unit became effective as a

valid Org Unit within the ministry's organizational

structure.

UPDATE TIMESTAMP	Y	TIMESTAMP
------------------	---	-----------

The date and time of the last update.

EXPIRY DATE	Y	DATE
-------------	---	------

The date the Organizational Unit is Obsoleted and is no
longer an active Org Unit within the ministry's
organizational structure. At the determination of Human
Resources Branch, an expired Org Unit may be retained

Data Administration
Entity Definition Report

Entity Name:	CORP ORG UNIT (cont'd)	Short Name:	MOUT
---------------------	------------------------	--------------------	------

for historical purposed, or may be deleted

OFFICE NAME CODE	N CHAR	2
------------------	--------	---

Represents an office within a specific organizational

level.

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE identifies data custodian for one or more VEG HIST G A CALL SAM POINTS

MAY BE identifies data custodian for one or more VEG HIST G A CALL SAM POINTS

MAY BE shows district for one or more VEG HIST G A CALL SAM POINTS

MAY BE shows district for one or more VEG HIST G A CALL SAM POINTS

* = *Relationships in primary unique identifier.*

Unique Identifiers:

MOUT_PK	Primary	Y
ORG UNIT NO		

Entity Name: CULMINATION ASSESSMENT				<i>Short Name:</i>	CA
<i>Plural:</i>	CULMINATION ASSESSMENTS				
<i>Init. Volume:</i>	500000	<i>Avg. Volume:</i>	1000000	<i>Max. Volume:</i>	1500000
				<i>Annual Growth Rate:</i>	5%

Description:

The stand age (in the form of a date) at which the mean annual increment of a stand reaches its maximum.

This assessment is created only by derivation from collected interpretations of other observed features of a stand. Hence no SOURCE TYPE attribute to distinguish collected or derivations.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CULMIN SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				
Populated from sequence CULMIN_SEQ.				
<< 1998-03-26-16:50 sourced from:236464:678724 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:24 sourced from:236464:422006>>				
<< 1998-03-26-16:50 sourced from:236464:681650 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				
<<1997-12-09-14:24 sourced from:236464:422005>>				
<< 1998-03-26-16:50 sourced from:236464:681649 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				

Entity Name:	CULMINATION ASSESSMENT (cont'd)	Short Name:	CA
---------------------	---------------------------------	-------------	----

<<1997-12-09-14:24 sourced from:236464:422008>>

<< 1998-03-26-16:50 sourced from:236464:681652 >>

MODIFY DATE

Y DATE

The date the record was last modified.

<<1997-12-09-14:24 sourced from:236464:422007>>

<< 1998-03-26-16:50 sourced from:236464:681651 >>

CULMINATION DATE

Y DATE

The date or origin, in effect age, at culmination of the Mean Annual increment.

<<1997-11-18-15:19 sourced from:236464:427625>>

<<1997-12-05-16:07 sourced from:236464:670137>>

<< 1998-03-26-16:50 sourced from:236464:679742 >>

MEAN ANNUAL INCREMENT

MEAN ANNUAL INCREMENT VOLUME

N NUMBER

6,4

The total increment of tree volume to a given age in years divided by that age.

<<1997-11-18-15:19 sourced from:236464:427626>>

<<1997-12-05-16:07 sourced from:236464:670138>>

<< 1998-03-26-16:50 sourced from:236464:679743 >>

SOURCE TYPE

DATA SOURCE TYPE

N VARCHAR2

5

The basic source type of the data; either Collected or Derived. This is utilized to distinguish occurrences of attributes that can come from either source.

Expected to be used for FIP sourced data only; all within-database derivations will have a DERIVATION TRANSACTION occurrence to identify

Entity Name:	CULMINATION ASSESSMENT (cont'd)	Short Name:	CA
---------------------	---------------------------------	--------------------	----

derived data.

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE derived for one and only one UTILIZATION LEVEL AREA ASSOCIATION
MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT

* = *Relationships in primary unique identifier.*

Unique Identifiers:

CA1	Primary	Y
CULMIN SKEY		

Notes:

<< 1998-03-26-16:50 sourced from:236464:678497 >>

Entity Name: CWD ACCUMULATION			Short Name:	ACCUM
Plural:	CWD ACCUMULATIONS			
Init. Volume:	1000	Avg. Volume:	2000	Max. Volume: 5000
Annual Growth Rate:	2%			
Subtype of:	COARSE WOODY DEBRIS MEASMT			

Description:

Non-linear, or non-bole shaped decomposing woody material.

This refers to odd shaped chunks, and cross sectional slices

from logs ('lily pads').

Separable from decomposing woody material in the form of logs

or log portions.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
TRANSECT HORIZN LENGTH		N	NUMBER	4,2

The horizontal length of coarse woody debris accumulation

intersecting the transect line.

The intent is to obtain an estimate of cross sectional area.

<< 1998-03-26-15:15 sourced from:7003:223240 >>

TRANSECT VERTICAL DEPTH	N	NUMBER	4,2
-------------------------	---	--------	-----

The vertical depth of coarse woody debris accumulation

intersecting the transect line.

The intent is to obtain an estimate of cross sectional area.

<< 1998-03-26-15:15 sourced from:7003:223241 >>

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-26-15:15 sourced from:7003:222119 >>

Data Administration
Entity Definition Report

Entity Name: CWD PIECE				<i>Short Name:</i>	PIECE
<i>Plural:</i>	CWD PIECES				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	5000
<i>Subtype of:</i>	COARSE WOODY DEBRIS MEASMT				
				<i>Annual Growth Rate:</i>	2%

Description:

Coarse woody debris in the form of logs. Coarse woody debris accumulations may be naturally fallen material, or as caused by harvesting operations.

Decked logs (logs stacked and forwarded for loading onto trucks) are also included under this definition.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DIAMETER	TREE DIAMETER 4 1	N	NUMBER	4,1
The diameter of the coarse woody debris piece (ie. in log form) measured where it crosses the transect line.				

The diameter is taken perpendicular to the direction of the bole, as is normally practised. (Stated to dispell the potential notion that the transect line determines the alignment of the diameter measure).

<< 1998-03-26-15:15 sourced from:7003:223238 >>

TILT ANGLE	ANGLE DEGREE	N	NUMBER	2,0
The tilt at which the log lies, measured from the horizontal.				

<< 1998-03-26-15:15 sourced from:7003:223239 >>

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-26-15:15 sourced from:7003:222112 >>

Data Administration
Entity Definition Report

Entity Name:	DAMAGE AGENT CATEGORY CD FCAP V			Short Name:	DAMCDV
Plural:	DAMAGE AGENT CATEGORY CDS FCAP VERSIONS				
Init. Volume:	10	Avg. Volume:	20	Max. Volume:	50
				Annual Growth Rate:	1%

Description:

The Ministry standard Attribute Code Catagories for Damage Agents

which include; Distrubance (DI), Site Preperation (SI), Stand Tending

(ST) and Plantation (PL).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DAM_CAT_CD		N	VARCHAR2	2
Category code in History Activity (Attribute) for Damage Agents.				
<< 1998-05-01-12:43 sourced from:236464:578427 >>				
DESCRIPTION		N	VARCHAR2	50
Damage agent Attribute Code discription.				
<< 1998-05-01-12:43 sourced from:236464:578428 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE the classification of one or more DAMAGE AGENT CDS FCAP VERSION
* = Relationships in primary unique identifier.

Unique Identifiers:

DAMCDV1	Primary	Y
DAM_CAT_CD		

Notes:

<< 1998-05-01-12:43 sourced from:236464:578421 >>

Data Administration
Entity Definition Report

Entity Name: DAMAGE AGENT CD FCAP VERSION				<i>Short Name:</i>	DAFV
<i>Plural:</i>	DAMAGE AGENT CDS FCAP VERSION				
<i>Init. Volume:</i>	300	<i>Avg. Volume:</i>	300	<i>Max. Volume:</i>	500
				<i>Annual Growth Rate:</i>	1%

Description:

The Ministry standard table of damage agents, pest disease or abiotic activity, and their associated attributes for qualifying the severity or other damage conditions.

Data Custodian: Forest Health Officer, Silviculture Branch

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DAFV SKEY	SKEY 7	N	NUMBER	7,0
Surrogate key for Damage Agent.				

<< 1998-03-26-11:59 sourced from:236464:575698 >>

ACTIVITY CD	Y	VARCHAR2	2
A code indicating the category of insect or disease that has caused a disturbance in the stand's history. Stands with a disturbance caused by insects or disease can be further described by the ACTIVITY SUB CODE.			

The code for the damage agent as it is currently collected (94-3).

The FIP based version of Damage Agent code, retained on an 'as is' basis until migration to a stable Ministry version of Damage Agent is available.

<< 1998-03-26-11:59 sourced from:236464:575696 >>

ACTIVITY SUB CD	Y	VARCHAR2	3
A code indicating the type of insect or disease that has caused a disturbance in the stand's history.			

Entity Name: DAMAGE AGENT CD FCAP VERSION (cont'd)

Short Name:

DAFV

This FIP based version of Damage Agent code, is retained on an 'as is' basis until migration to a stable Ministry version of Damage Agent is available.

<< 1998-03-26-11:59 sourced from:236464:575695 >>

COMMON NAME

Y VARCHAR2

50

The common or descriptive name of the damage agent.

<< 1998-03-26-11:59 sourced from:236464:575697 >>

LATIN NAME

Y VARCHAR2

50

The latin species name of the damage agent (if applicable).

<< 1998-03-26-11:59 sourced from:236464:575694 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE afflict one or more SILVICULTURAL HISTORIES
MAY BE converted from one or more FIP DAMAGE AGENT REDUNDANT CDS
MUST BE categorized by one and only one DAMAGE AGENT CATEGORY CD FCAP VERSION
* = Relationships in primary unique identifier.

Unique Identifiers:

DAFV1

Primary Y

DAFV SKEY

Notes:

Jun 16 1997 JRT

- this table is to be superceded by the Veg_SAMPLE version....

-also awaiting Ministry business definiton of codes (agents) and the associated schemes of their assessment.

-the Sample Plot Data Base and the FCAP (FIP) version are being maintained separately until the Ministry definition is stable enough to migrate to. Sept 8, 1997, JH

<< 1998-03-26-11:59 sourced from:236464:575693 >>

Data Administration
Entity Definition Report

Entity Name: DAMAGE AGENT ST TBL				Short Name:	DAST
Plural:	DAMAGE AGENT ST TBL				
Init. Volume:	260	Avg. Volume:	260	Max. Volume:	500
				Annual Growth Rate:	

Description:

Damage Agents superset table from IMG's corporate code table.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CODE ARGUMENT		N	VARCHAR2	3
EXPANDED RESULT		N	VARCHAR2	120
EFFECTIVE DATE		N	DATE	
EXPIRY DATE		N	DATE	
UPDATE DATE		N	DATE	

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE describe one or more DAMAGE OCCURRENCES

MAY BE mapped to one or more DAMAGE AGENT VEG SAM VERSIONS

* = Relationships in primary unique identifier.

Unique Identifiers:

DAST	Primary	Y
CODE ARGUMENT		

Notes:

Couldn't table to entity retrofit so this has been entered manually.

Data Administration
Entity Definition Report

Entity Name: DAMAGE AGENT VEG SAM VERSION			Short Name:	DAGNC
Plural:	DAMAGE AGENT VEG SAM VERSIONS			
Init. Volume:	300	Avg. Volume:	300	Max. Volume: 500
			Annual Growth Rate:	0%

Description:

The damage agents used in the collection of data from Vegetation

Inventory Sampling activities.

Formerly known as entity DAMAGE AGENT CD and table DAMAGE_AGENT_CDS.

At a future date, when the business custodian has stablized the definition, attribution and values in a generically normalized design that permits multiple assessment values for a given 'pest' or 'damage agent', this and all other 'DAMAGE AGENT' versions will be amalgamated.

Note that this model/application contains the most generic and normalized version to date. The DRM group is waiting for the business to catch up.

Data Custodian: Forest Health Officer, Silviculture Branch

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DAVSV SKEY		N	NUMBER	7,0
Surrogate key for Damage Agent.				
<< 1998-03-26-15:24 sourced from:7003:7533 >>				
BIOTIC CD	BIOTIC TYPE	N	VARCHAR2	1
An indicator for the first level categorization of a damage agent;				
biotic or abiotic.				
<< 1998-03-26-15:24 sourced from:7003:7424 >>				
DAMAGE AGENT CD		Y	VARCHAR2	4
The code for the damage agent as it is currently collected (94-3).				
These are also known as 'field' codes, ostensibly to expedite data				

Entity Name: DAMAGE AGENT VEG SAM VERSION (cont'd)

Short Name: DAGNC

collection. This represents a 3 alpha character long representation;

past values were heirarchial 1 character long subsets of a category (e

.g. Insects), sub-category (e.g. weevils) and a individual damage agen

t (e.g. Root Collar Weevil). Rationalization and normaliza-

tion with a longer code is ultimately required.

<< 1998-03-26-15:24 sourced from:7003:7425 >>

COMMON NAME

N VARCHAR2

50

The common or descriptive name of the damage agent.

<< 1998-03-26-15:24 sourced from:7003:7426 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- MAY BE a contituent of one and only one TREE VOLUME LOSS CD
 - MAY BE causal agent for one or more DAMAGE OCCURRENCES
 - MAY BE linked with one or more DAMAGE AGENT VEG SAM VERSIONS
 - MAY BE made up of one and only one DAMAGE AGENT VEG SAM VERSION
 - MAY BE records observations thru one and only one SEVERITY RATING DEFINITION
 - MUST BE corporately identified by one and only one DAMAGE AGENT ST TBL
- * = Relationships in primary unique identifier.

Unique Identifiers:

DAGNC1

Primary Y

DAVSV SKEY

Notes:

- OT_S Code table
- A! Some PEST SEVERITY codes apply to only certain PESTS/DAMAGE

AGENTS; the definitive rule set needs to be acquired from/with

J Beale
- A? Ask JH if the first pos. of DAMAGE AGENT CD should be split out

as a CATEGORY attribute

<< 1998-03-26-15:24 sourced from:7003:7076 >>

Data Administration
Entity Definition Report

Entity Name: DAMAGE OCC ATTR VALUE				<i>Short Name:</i>	DOAV
<i>Plural:</i>	DAMAGE OCC ATTR VALUES				
<i>Init. Volume:</i>	300	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	1000
				<i>Annual Growth Rate:</i>	2%

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
VALUE RECORDED		N	VARCHAR2	30
<< 1998-03-26-15:24 sourced from:7003:547441 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- * MUST BE a severity value for one and only one DAMAGE OCCURRENCE
- * MUST BE an observed value of one and only one SEVERITY RATING ATTRIBUTE
- * = Relationships in primary unique identifier.

Unique Identifiers:

DOAV1	Primary	Y
MUST BE a severity value for one and only one DAMAGE OCCURRENCE		
MUST BE an observed value of one and only one SEVERITY RATING ATTRIBUTE		

Notes:

<< 1998-03-26-15:24 sourced from:7003:547068 >>

Data Administration
Entity Definition Report

Entity Name: DAMAGE OCCURRENCE				<i>Short Name:</i>	DMGO
<i>Plural:</i>	DAMAGE OCCURRENCES				
<i>Init. Volume:</i>	10000	<i>Avg. Volume:</i>	15000	<i>Max. Volume:</i>	20000
				<i>Annual Growth Rate:</i>	5%

Description:

The occurrence of a damage agent (formerly known as 'pest') to the stand in which the plot cluster resides. The damage agent may be either biotic or abiotic, but in both cases only the general nature of the damage agent is recorded.

This entity assumes the attributes of the Inventory Branch, Growth & Yield Section, STAND HISTORY, Complete and Partial Disturbance.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DAM OCC SKEY		N	NUMBER	7
A unique identifier for the occurrence of a damage agent afflicting the stand the sample/plot lies in.				
<< 1998-03-26-15:24 sourced from:7003:7588 >>				
DISTURB ASSMT		Y	VARCHAR2	1
A non numeric damage assessment of a specific subset of pests.				
<< 1998-03-26-15:24 sourced from:7003:168073 >>				
DISTURB PCT	PERCENTAGE 100	Y	NUMBER	3,0
The degree of disturbance by a damage agent assessed as a percentage of trees in the plot.				
<< 1998-03-26-15:24 sourced from:7003:7438 >>				
DISTURB YR	ACTIVITY YR	Y	NUMBER	4,0
The year the disturbance by a damage agent was thought to have occurred.				
HH93_S SP_MEAS_SM_YEAR				
SEF S CT3:55-56,61-62 YEAR				

Entity Name:	DAMAGE OCCURRENCE (cont'd)	<i>Short Name:</i>	DMGO
---------------------	----------------------------	--------------------	------

SEF C Add '19' for century

<< 1998-03-26-15:24 sourced from:7003:7439 >>

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE created by one and only one DAMAGE AGENT VEG SAM VERSION
or MAY BE described by one and only one DAMAGE AGENT ST TBL
MAY BE be assigned one or more DAMAGE OCC ATTR VALUES
MAY BE described on one and only one SITE DISTURBANCE CD
MUST BE record damage for one and only one TREE MEASUREMENT
* = *Relationships in primary unique identifier.*

Unique Identifiers:

DMGO1	<i>Primary</i>	<i>Y</i>
<i>DAM OCC SKEY</i>		

Notes:

<< 1998-03-26-15:24 sourced from:7003:7437 >>

Entity Name: DATA RECONCILIATION ERROR				<i>Short Name:</i>	DRE
<i>Plural:</i>	DATA RECONCILLIATION ERRORS				
<i>Init. Volume:</i>	200000	<i>Avg. Volume:</i>	500000	<i>Max. Volume:</i>	2000000
				<i>Annual Growth Rate:</i>	5%

Description:

Errors that are unreconcillable based on the application of software rules which detect inconsistencies between the source graphics (*.FC1), text (*.FIP) and their pairing.

An error maybe common to more than one source; for example, a Datum error may arise from an internal check of the graphics file, or may be caused from a graphics file-text file pairing inconsistency. Other errors are particular to a source type, e.g. Layer Count would only occur on the text (FIP) file.

The errors are logged by the data collection software developed by Robin Quenet of Pacific International Mapping.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DATA ERROR SKEY		N	NUMBER	7,0
The surrogate identifier of a data error.				
<< 1998-03-25-16:59 sourced from:416792:446860 >>				
CREATE DATE		N	DATE	
<< 1998-03-25-16:59 sourced from:416792:492771 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-25-16:59 sourced from:416792:492772 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492773 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492774 >>				

* = Attributes in primary unique identifier.

Relationships:

Entity Name: DATA RECONCILIATION ERROR (cont'd)

Short Name: DRE

Each Occurrence Of This Entity:

MAY BE recorded for one and only one GRAPHICS FILE VERSION
or MAY BE recorded for one and only one GRAPHICS TEXT FILE PAIR
or MAY BE recorded for one and only one TEXT FILE VERSION
MUST BE described by one and only one PROCESS MESSAGE CD
* = Relationships in primary unique identifier.

Unique Identifiers:

DRE2	Primary	N
MUST BE described by one and only one PROCESS MESSAGE CD		
MAY BE recorded for one and only one GRAPHICS FILE VERSION		
MAY BE recorded for one and only one TEXT FILE VERSION		
DRE1	Primary	Y
DATA ERROR SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:446820 >>

Entity Name: DATE OF ORIGIN ASSESSMENT				<i>Short Name:</i>	DOOA
<i>Plural:</i>	DATE OF ORIGIN ASSESSMENTS				
<i>Init. Volume:</i>	3000000	<i>Avg. Volume:</i>	4000000	<i>Max. Volume:</i>	8000000
				<i>Annual Growth Rate:</i>	10%

Description:

The date (year) the stand was established as applied to a layer (FIP) or a tree species (Vegetative Cover). Known as the Year of Stand Establishment in the FIP file.

The month/date value of JAN-01 is assigned by business default.

This is a conversion of 'Age', a departure from previous business practise. The intent of conversion to Year of Origin is to maintain currency, as 'Age' would become outdated with the passing of a calendar year.

This value is typically an estimate from aerial photo interpretation and applies to the dominant and codominant trees and can be augmented from the possible sources of:

- site history, (previous surveys),
- field measurements,
- age-height relationships, and
- age pattterns.

No projected DATE OF ORIGIN is expected to be retained in this entity.

The PROJECTION DATE would be retained by a DERIVATION TRANSACTION, or by the attribute of the same name in VERSION AUDIT METADATA for legacy sources.

Data Administration
Entity Definition Report

Entity Name:	DATE OF ORIGIN ASSESSMENT (cont'd)	Short Name:	DOOA
---------------------	------------------------------------	-------------	------

Definition Source: p 6-13, 14, PIP

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ORIGIN SKEY	SKEY 7	N	NUMBER	7,0
The surrogate system identifier.				

Populated by ORIGIN_SEQ.

<< 1998-03-26-16:53 sourced from:236464:670237 >>

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				

<<1997-12-09-14:27 sourced from:236464:422006>>

<< 1998-03-26-16:53 sourced from:236464:681674 >>

CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				

<<1997-12-09-14:27 sourced from:236464:422005>>

<< 1998-03-26-16:53 sourced from:236464:681673 >>

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				

<<1997-12-09-14:27 sourced from:236464:422008>>

<< 1998-03-26-16:53 sourced from:236464:681676 >>

MODIFY DATE		Y	DATE	
The date the record was last modified.				

Data Administration
Entity Definition Report

Entity Name:	DATE OF ORIGIN ASSESSMENT (cont'd)	Short Name:	DOOA
---------------------	------------------------------------	-------------	------

<<1997-12-09-14:27 sourced from:236464:422007>>

<< 1998-03-26-16:53 sourced from:236464:681675 >>

DATE OF ORIGINN DATE

The year the tree began to grow; applied to a layer (FIP) or a tree species (Vegetative Cover). Known as the Year of Stand Establishment in the FIP file.

This value is typically an estimate from aerial photo interpretation and applies to the dominant and codominant trees and can be augmented from the possible sources of:

- site history, (previous surveys),
- field measurements,
- age-height relationships, and
- age patterns.

Definition Source: p 6-13, 14, PIP

<<1997-12-05-16:17 sourced from:236464:508449>>

<< 1998-03-26-16:53 sourced from:236464:679752 >>

DATE MINIMUMY DATE

The minimum value of the year the tree began growing.

<<1997-12-05-16:17 sourced from:236464:508450>>

<< 1998-03-26-16:53 sourced from:236464:679755 >>

DATE MAXIMUMY DATE

The maximum value of the year the tree began growing.

<<1997-12-05-16:17 sourced from:236464:508451>>

<< 1998-03-26-16:53 sourced from:236464:679754 >>

Data Administration
Entity Definition Report

Entity Name:	DATE OF ORIGIN ASSESSMENT (cont'd)	Short Name:	DOOA
---------------------	------------------------------------	-------------	------

INTERPRETATION SOURCE CD	INTERPRETATION DATA	Y	NUMBER	2
The source of data used for the interpretation of year of origin				

(age).

<<1997-12-05-16:17 sourced from:236464:670114>>

<< 1998-03-26-16:53 sourced from:236464:679757 >>

CONFIDENCE INDEX NUM	ESTIMATE CONFIDENCE	Y	NUMBER	1
A subjective discrete assignment from 1 to 9 which reflects the				

photo interpreter's confidence in the estimation of the tree Age

Estimate. The higher the number, the greater the confidence in the interpretation of tree age.

The confidence index should not reflect the individual interpreter's abilities, but an estimate of the difficulty of making the interpretation due to polygon complexity and reliability of data sources.

Definition Source: p. 6-20, PIP

<<1997-12-05-16:17 sourced from:236464:508614>>

<< 1998-03-26-16:53 sourced from:236464:679753 >>

BUSINESS REVISION DATE	Y	DATE
The date the DATE OF ORIGIN (tree age to many users) was revised after		

it was originally interpreted as part of the Vegetation Inventory classification.

<<1997-12-05-16:17 sourced from:236464:670179>>

<< 1998-03-26-16:53 sourced from:236464:679756 >>

SOURCE TYPE	DATA SOURCE TYPE	N	VARCHAR2	5
The basic source type of the data; either Collected or Derived. This				

is utilized to distinguish occurrences of attributes that can come

Entity Name:	DATE OF ORIGIN ASSESSMENT (cont'd)	<i>Short Name:</i>	DOOA
---------------------	------------------------------------	--------------------	------

from either source.

Expected to be used for FIP sourced data only; all within-database

derivations will have a DERIVATION TRANSACTION occurrence to identify

derived data.

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT

* = *Relationships in primary unique identifier.*

Unique Identifiers:

DOOA1	Primary	Y
ORIGIN SKEY		

Notes:

<< 1998-03-26-16:53 sourced from:236464:670231 >>

Entity Name: DBH HT SPP FIZ CODE			Short Name:	DHSFC
Plural:	DBH HT SPP FIZ CODES			
Init. Volume:	60	Avg. Volume:	300	Max. Volume: 600
			Annual Growth Rate:	1%

Description:

A table of maximum expectable total tree heights and diameters (dbh) individually or in combination for a given tree species and FIZ for the purpose of validating individual tree measurements.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FIZ CD	FIZ	N	VARCHAR2	1
A geographic area of BC delineated to approximate broad climatic and ecological factors. It was developed by the Inventory Branch for grouping samples and will be superceded by biogeoclimatic classification.				
OT_S Table on VAX				
A? Check with BD				
<< 1998-03-27-11:07 sourced from:346868:346853 >>				
MAX DBH 1 3M	TREE DIAMETER 4 1	N	NUMBER	4,1
The maximum expectable tree diameter in centimetres as measured at breast height.				
<< 1998-03-27-11:07 sourced from:346868:346854 >>				
MAX TREE HT	TREE HEIGHT 4 2	N	NUMBER	4,2
The maximum expectable total tree height in metres above germination point or highest side. Validates TOTAL HEIGHT MEASURED of TREE MEASUREMENT.				
<< 1998-03-27-11:07 sourced from:346868:346855 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE containing maximum values for one and only one GROUP TAXONOMIC MEMBERSHIP
- * = Relationships in primary unique identifier.

Unique Identifiers:

Data Administration
Entity Definition Report

Entity Name: DBH HT SPP FIZ CODE (cont'd)		Short Name:	DHSFC
DHSFC1	Primary Y		
MUST BE containing maximum values for one and only one GROUP TAXONOMIC MEMBERSHIP FIZ CD			

Notes:

<< 1998-03-27-11:07 sourced from:346868:346852 >>

Entity Name: DECAF		<i>Short Name:</i> DECF	
<i>Plural:</i>	DECAF FACTOR		
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	50
		<i>Max. Volume:</i>	50
<i>Subtype of:</i>	ADJUSTMENT FACTOR	<i>Annual Growth Rate:</i>	5%

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-26-11:55 sourced from:236464:427151 >>

Entity Name: DEFAULT CROWN CLOSURE			<i>Short Name:</i>	DCC
<i>Plural:</i>	DEFAULT CROWN CLOSURES			
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100	<i>Max. Volume:</i> 200
			<i>Annual Growth Rate:</i>	1%

Description:

The crown closures that are supplied as a default if missing from the FIP file. In the course of rule creation it was found that approximately 407,000 forested FIP polygons were missing crown closure which should be a mandatory attribute for forested polygons.

These default crown closures apply to Age Class 1 (1-20 years) and Age Class 2 (21-40 years) only. The MEAN CROWN CLOSURE values are supplied from a SAS analysis of the FIP file (98-01-23).

For stands older that 40 years, the default crown closure is taken from VDYP APPLICATION BOUND.DEFAULT CROWN CLOSURE.

The mapsheet components are grouped into four broad business areas of BC: tehy are, Southern Coast, Southern Interior, Central Interior, and Northern.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
MEAN CROWN CLOSURE	PERCENTAGE 100	N	NUMBER	3,0
The mean crown closure assigned to FIP polygons 40 years or less, where 'missing'. Missing crown closure in the FIP file is determined by a value of zero when the stand age is greater than zero.				

<< 1998-03-26-16:55 sourced from:236464:769438 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

* MUST BE ascribed to one and only one MAPSHEET COMPONENT

Entity Name:

DEFAULT CROWN CLOSURE (cont'd)

Short Name:

DCC

* MUST BE for one and only one AGE CLASS
* = Relationships in primary unique identifier.

Unique Identifiers:

DCC1	Primary	Y
------	---------	---

MUST BE for one and only one AGE CLASS
MUST BE ascribed to one and only one MAPSHEET COMPONENT

Notes:

<< 1998-03-26-16:55 sourced from:236464:769432 >>

Entity Name: DENSITY ASSESSMENT			<i>Short Name:</i>	DA
<i>Plural:</i>	DENSITY ASSESSMENTS			
<i>Init. Volume:</i>	500000	<i>Avg. Volume:</i>	1000000	<i>Max. Volume:</i> 1500000
			<i>Annual Growth Rate:</i>	5%

Description:

The number of trees per hectare. Typically gathered within the bounds of a prescribed subpopulation, e.g. live trees, min 2.0 dbh.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DENSITY SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				
Populated from DENSITY_SEQ.				
<< 1998-03-26-16:55 sourced from:236464:678733 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:25 sourced from:236464:422006>>				
<< 1998-03-26-16:55 sourced from:236464:681654 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				
<<1997-12-09-14:25 sourced from:236464:422005>>				
<< 1998-03-26-16:55 sourced from:236464:681653 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				
<<1997-12-09-14:25 sourced from:236464:422008>>				
<< 1998-03-26-16:55 sourced from:236464:681656 >>				
MODIFY DATE		Y	DATE	
The date the record was last modified.				

Entity Name:	DENSITY ASSESSMENT (cont'd)	Short Name:	DA
---------------------	-----------------------------	-------------	----

<<1997-12-09-14:25 sourced from:236464:422007>>

<< 1998-03-26-16:55 sourced from:236464:681655 >>

STEMS PER HA	TREES PER HA	N	NUMBER	10,4
The number of tree stems on an unitary per hectare basis.				

<<1997-11-18-15:24 sourced from:236464:508904>>

<<1997-12-05-16:15 sourced from:236464:670144>>

<< 1998-03-26-16:55 sourced from:236464:679749 >>

INTERPRETATION SOURCE CD	INTERPRETATION DATA	Y	NUMBER	2
The source of data used for the interpretation of stand density.				

<<1997-11-18-15:24 sourced from:236464:670116>>

<<1997-12-05-16:15 sourced from:236464:670145>>

<< 1998-03-26-16:55 sourced from:236464:679750 >>

SOURCE TYPE	DATA SOURCE TYPE	N	VARCHAR2	5
The source of the data; either Collected or Derived. This is utilized				

to distinguish occurrences of attributes that can come from either source.

Expected to be used for FIP sourced data only; all within-database derivations will have a DERIVATION TRANSACTION occurrence to identify derived data.

<< 1998-03-26-16:55 sourced from:236464:786442 >>

POPULATION QUALIFIER	STEMS PER HA	N	VARCHAR2	8
The population for which the density was collected.				

For a single interpretation, this could be LLive Trees, Dead Trees and Well Spaced Stems.

Entity Name:	DENSITY ASSESSMENT (cont'd)	<i>Short Name:</i>	DA
---------------------	-----------------------------	--------------------	----

<< 1998-03-26-16:55 sourced from:236464:786441 >>

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE assessing one and only one SUBPOPULATION
MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT
** = Relationships in primary unique identifier.*

Unique Identifiers:

DA1	<i>Primary</i>	Y
<i>DENSITY SKEY</i>		

Notes:

<< 1998-03-26-16:55 sourced from:236464:678727 >>

Entity Name:	DERIVATION MODULE			<i>Short Name:</i>	DM
<i>Plural:</i>	DERIVATION MODULES				
<i>Init. Volume:</i>	0	<i>Avg. Volume:</i>	0	<i>Max. Volume:</i>	0
				<i>Annual Growth Rate:</i>	0%

Description:

A software module that applies logic to derive business required attribution.

Two known examples are:

- Freddie or perhaps more accurately, the Sindex module, and
- VDYP, the tree growth projection module.

A! analysis is incomplete; module, parameter set, actual parameters and transactions all need to be considered such that full auditability within the Veg. Cover system is realized.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MODULE SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier of the derivation module.				
<< 1998-03-26-16:55 sourced from:236464:508491 >>				
SOFTWARE NAME		N	VARCHAR2	25
Th name of the software module. Examples would be FREDDIE, VDYP.				
<< 1998-03-26-16:55 sourced from:236464:508492 >>				
VERSION ID		N	VARCHAR2	
The version identifier of the sotware module that was used for				
derivation. An alpha numeric field to accomodate lettered versions:				
e.g. 1.1a.				
<< 1998-03-26-16:55 sourced from:236464:508493 >>				
VERSION RELEASE DATE		N	DATE	
The date the software module was released by the custodial agency.				

Entity Name:	DERIVATION MODULE (cont'd)	<i>Short Name:</i>	DM
---------------------	----------------------------	--------------------	----

<< 1998-03-26-16:55 sourced from:236464:508494 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE applying one and only one ADJUSTMENT FACTOR
 - MAY BE requiring one or more SITE INDEX COEFFICIENT SETS
 - MAY BE requiring one or more TREE VOLUME COEFFICIENT SETS
- * = Relationships in primary unique identifier.

Unique Identifiers:

DM1	Primary	Y
MODULE SKEY		

Notes:

<< 1998-03-26-16:55 sourced from:236464:508485 >>

Entity Name:	DESCRIPTION BASED SUBPOPULATION	<i>Short Name:</i>	DBS
<i>Plural:</i>	DESCRIPTION BASED SUBPOPULATION		
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	1500
		<i>Max. Volume:</i>	2500
<i>Subtype of:</i>	SUBPOPULATION	<i>Annual Growth Rate:</i>	5%

Description:

Subpopulations of flora or other ecosystem/site

features which are assessed and are predominantly

qualified by description, rather than quantified declaratively

such as tree size range (e.g. TREE SUBPOPULATION).

There may be some overlap however; Coarse Woody Debris

is considered as a description based subpopulation, though

it has a specided minimum log diameter of 7.5 cm.

The desription is expected to be relatively simple, e.g. all

flora, or all coarse woody debris; the operative word is

'predominant'. Should quantifiable subpopulation

range bounds evolve, they would be reflected attributively

with attendant maintenance enhancements.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DEFINITION DATE		N	DATE	
The date the definition of the subpopulation was established				
or modified.				
<< 1998-03-27-10:12 sourced from:346868:524166 >>				
DEFINITION SOURCE	DESC 50	N	VARCHAR2	50
The business source of the definition; very often the				
data collection standards manual from which field sheet,				
training and business practise emanate.				

Entity Name: DESCRIPTION BASED SUBPOPULATION (cont'd)

Short Name:

DBS

<< 1998-03-27-10:12 sourced from:346868:524167 >>

DEFINTION SUMMARYDESC 256Y VARCHAR2256

A summary of the description from the DEFINITION SOURCE.

Retained for on-line documentation and help system purposes.

<< 1998-03-27-10:12 sourced from:346868:524168 >>

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-27-10:12 sourced from:346868:524165 >>

Entity Name:	DESIGN SECTION ASSN	<i>Short Name:</i>	DSA
<i>Plural:</i>	DESIGN SECTION ASSNS		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

The association of a business based inventory design (DESIGN SPECIFICATION) with a tree SECTION.

Normally, a TREE (and by extension its STEMs and SECTIONS) would inherit the association of a DESIGN SPECIFICATION from the PLOT CLUSTER in which it resides.

However for the known destructive sampling practises involving tree sectioning (Volume, Decay and NVAF) a tree (and its leaders) is sectioned according to more than one DESIGN SPECIFICATIONS.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE comprised of one and only one DESIGN SPECIFICATION
 - * MUST BE comprised of one and only one SECTION
- * = Relationships in primary unique identifier.

Unique Identifiers:

DSA1	<i>Primary</i>	<i>Y</i>
<i>MUST BE comprised of one and only one DESIGN SPECIFICATION</i>		
<i>MUST BE comprised of one and only one SECTION</i>		

Entity Name: DESIGN SPECIFICATION				<i>Short Name:</i>	DES
<i>Plural:</i>	DESIGN SPECIFICATIONS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	150	<i>Max. Volume:</i>	500
				<i>Annual Growth Rate:</i>	2%

Description:

Specific and directed data collecting implementations of a Program

Initiative under which surveys and experiments are conducted. This subsumes the precedent entity named INVESTIGATION INITIATIVE.

All business rules are to be associated with the parent occurrence.

Recursively related child occurrences of Design Specifications are for business edification purposes only.

For forest/vegetationPolygon, Tree Layer, Tree Layer, Business Object Assessment, Culmination Assessment inventory applications examples would be:

- FIP (Forest Inventory) related:
- Forest Cover areal coverage,
 - Growth Natural Stand plot clusters,
 - Growth Temporary plot clusters,
 - Growth Intensive plot clusters,
 - Growth Silvicultural Monitoring plot clusters,
 - Volume sampled trees,
 - Decay sampled trees

- Vegetation Inventory related:
- Vegetation Inventory Phase 1, areal coverage (Vegetative Cover),
 - Vegetation Inventory Phase 2, plot clusters (Vegetation Inv. samples)

Entity Name: DESIGN SPECIFICATION (cont'd)

Short Name:DES

Vegetation Inventory Phase 3, sampled trees (Vegetation Inv. Net
Volume Adjustment Factor trees),

Research Experimental Program (EP) related:

EP initiatives and recursive identifiers or Project Num, Sub Project
Num

acquired experimental plots from other agencies.

This is not meant to reflect data formats, which are retained in the
DATA FORMATS entity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DESIGN SKEY	SKEY 7	N	NUMBER	7,0
System assigned unique identifier.				

<< 1998-04-13-09:08 sourced from:236464:612261 >>

BUSINESS IDENTIFIER VALUE	N	VARCHAR2	10
---------------------------	---	----------	----

A generic business identifier to uniquely identify a
DESIGN SPECIFICATION. This is applied to both air photo
interpretation and ground based mensurational activites
(samples and experiment plots).

This generic indentification subsumes common business identifiers used
in sample/experiment plots such as:

Sample Type Cd (used by the RIB Growth and Yield Section),

Entity Name: DESIGN SPECIFICATION (cont'd)

Short Name:DES

EP Number (used by the Research Branch).

Specific examples would be:

G, R, ,I, T, S, (used by the RIB Growth and Yield Section),

Q, A, N, O (used by the RIB Vegetation Inventory),

numbers (used by the Research Branch to identify EP's)

FIP (meaning Forest Cover 1954-1994),

VEG INV (parent of samples types 'Q', 'A', 'N').

<< 1998-04-13-09:08 sourced from:236464:612262 >>

DESIGN TYPE CD

BIOMETRIC DESIGN TYPE Y CHAR

8

The type of Biometric Design that is applied to investigation.

Typical designs are by ground sampling, aerial survey or
experimenting, though there are combinations of ground samples and
experiments termed hybrids.

Valid values are:

SAMPLE (ground sample visitation),
INTERP (interpretation of areal boundaries and internal features),
EXPMT (ground based mensuration usually on fixed area plots),
HYBRID (of a ground sample and an experiment e.g. Intensive Forestry)

<< 1998-04-13-09:08 sourced from:236464:617490 >>

Entity Name:	DESIGN SPECIFICATION (cont'd)	Short Name:	DES
BUSINESS IDENTIFIER NAME	N VARCHAR2	30	
The name a business gives as the identifying attribute for a Design Specification.			
Examples are:			
SAMPLE TYPE (used by the Growth and Yield Section)			
EP NUM (used by the Research Branch)			
VEG INV COVER			
VEG INV SAMPLE			
FOREST COVER			
<< 1998-04-13-09:08 sourced from:236464:785625 >>			
DESCRIPTION	Y VARCHAR2	256	
A generic text description that describes the design.			
The description can include the design name (say, ' three by three randomized factorial block design') and/or experiment project title.			
<< 1998-04-13-09:08 sourced from:236464:612263 >>			
EFFECTIVE DATE	N DATE		
The date when the Inventory Design Specification came into effect.			
<< 1998-04-13-09:08 sourced from:236464:612264 >>			
EXPIRY DATE	Y DATE		
The date when an Inventory Design Specification ceased to be used.			
<< 1998-04-13-09:08 sourced from:236464:612265 >>			
VERSION NUM	Y NUMBER	3,0	
A system maintained version number.			

Entity Name: DESIGN SPECIFICATION (cont'd)

Short Name:DES

Really? Not a business defined design specification?

Changed to an optional attribute.

JH 98-11-23

<< 1998-04-13-09:08 sourced from:236464:612267 >>

VERSION DATE

YDATE

The date the a version was created. This date, along with the version numbers are maintainned by the system at insert time using database triggers.

Really? Not a business defined design specification?

JH 98-11-23

<< 1998-04-13-09:08 sourced from:236464:612268 >>

HYPOTHESIS

YVARCHAR2256

A description of the formal assumptions being tested by the experiment.

<< 1998-04-13-09:08 sourced from:236464:785623 >>

LOCATION NAME

YVARCHAR2256

The general geographic location assigned. This is typically used for experimental plots for a given Experimental Program (EP Number) where a group of Plot Clusters are proximally located.

<< 1998-04-13-09:08 sourced from:236464:785622 >>

OBJECTIVE DESC

YVARCHAR2256

A textual description of the objective(s) of the project as stated in

Entity Name:	DESIGN SPECIFICATION (cont'd)	Short Name:	DES
---------------------	-------------------------------	-------------	-----

the working plan. Typically this would be gleaned from the

introductory documentation of the initiative.

<< 1998-04-13-09:08 sourced from:236464:617498 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- MAY BE a child of one and only one DESIGN SPECIFICATION
- MAY BE a member of one or more DESIGN SECTION ASSNS
- MAY BE a parent of one or more DESIGN SPECIFICATIONS
- MAY BE creating one or more LAYER CLASSFN DESCRIPTIONS
- MAY BE initiating the creation of one or more PLOT CLUSTERS
- MAY BE partially defined by one and only one SPECIES GROUP DEFINITION
- MAY BE prescribing data for one or more PROJECT ASSOCIATIONS
- MAY BE prescribing the business area for one or more DESIGN DATA FORMAT USAGES
- MAY BE prescribing the source of one or more POLYGONS
- MAY BE prescribing the source of one or more SEF RECTANGULAR PLOT LOAD RULES
- MAY BE the data administration unit for one or more BUSINESS RULES
- MUST BE created under the auspices of one and only one PROGRAM INITIATIVE

* = Relationships in primary unique identifier.

Unique Identifiers:

DES1	Primary	Y
DESIGN SKEY		

Notes:

<< 1998-04-13-09:08 sourced from:236464:612255 >>

Data Administration
Entity Definition Report

Entity Name: DIAM ASSMT				<i>Short Name:</i> DIASM	
<i>Plural:</i> DIAM ASSMTS					
<i>Init. Volume:</i> 1500000		<i>Avg. Volume:</i> 7500000		<i>Max. Volume:</i> 15000000	
				<i>Annual Growth Rate:</i> 5%	

Description:

Quantified assessments of tree diameter from field data collection and

/or derivations from taper equation algorithms.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
INSIDE OUTSIDE BARK CD	BARK INCLUSION	Y	VARCHAR2	2
ASSMT QUAL CD	DIAM QUALIFIER	N	VARCHAR2	10

A unique identifier for the occurence of a tree diameter.

<< 1998-03-27-11:10 sourced from:346868:346957 >>

BASAL AREA	BASAL AREA	Y	NUMBER	7,4
------------	------------	---	--------	-----

The diameter of the tree converted to the area it circumscribes.

Basal area is expressed in square metres, where diameter is measured

in centimetres.

<< 1998-03-27-11:10 sourced from:346868:347102 >>

BASAL AREA PER HA	BASAL AREA PER HA	Y	NUMBER	8,4
-------------------	-------------------	---	--------	-----

The tree basal area of tree, (derived from diameter), converted to a

per hectare basis. A derived field and is dependent on the plot area

(spatial delimiter) at the Measurement Visitation.

<< 1998-03-27-11:10 sourced from:346868:347121 >>

CREATE DATE	N	DATE
-------------	---	------

<< 1998-03-27-11:10 sourced from:346868:347358 >>

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
----------------	-------------	---	----------	----

<< 1998-03-27-11:10 sourced from:346868:347357 >>

DIAMETER	TREE DIAMETER 4 1	N	NUMBER	4,1
----------	-------------------	---	--------	-----

The tree diameter, as measured estimated or derived at a prescribed

position on the tree (Measurement Height).

<< 1998-03-27-11:10 sourced from:346868:346932 >>

* DIAM_ASSMT_SKEY	SKEY 7	N	NUMBER	7,0
-------------------	--------	---	--------	-----

<< 1998-03-27-11:10 sourced from:346868:347417 >>

Data Administration
Entity Definition Report

Entity Name:	DIAM ASSMT (cont'd)	Short Name:	DIASM
---------------------	---------------------	--------------------	-------

INCLUDED BARK CD	BARK INCLUSION	Y	VARCHAR2	2
------------------	----------------	---	----------	---

The identification as to whether tree bark was included in the measurement of diameter.

Normally the bark is included, exceptions may be dead or felled trees and special studies.

<< 1998-03-27-11:10 sourced from:346868:523584 >>

MEASMT HT		N	NUMBER	4,2
-----------	--	---	--------	-----

The height on the tree, at which the diameter was measured. This is usually called 'Breast Height' to reflect a convenient but uniform location of the measurement on the tree.

<< 1998-03-27-11:10 sourced from:346868:346933 >>

MODIFY DATE		Y	DATE	
-------------	--	---	------	--

<< 1998-03-27-11:10 sourced from:346868:347360 >>

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
----------------	-------------	---	----------	----

<< 1998-03-27-11:10 sourced from:346868:347359 >>

POSITION CD	TREE DIAMETER FEATURE	N	VARCHAR2	3
-------------	-----------------------	---	----------	---

The position on the tree the diameter was measured to.

<< 1998-03-27-11:10 sourced from:346868:523586 >>

REPRES IND	INDICATOR DEFAULT Y	N	VARCHAR2	1
------------	---------------------	---	----------	---

An indicator to denote that the DIAMETER as collected in the field is representative of the tree population within the sample or experimental unit.

Normally, the collection of tree diameters is not the problem that collection of ages and heights present. Often, the location of the diameter measurement on the tree is modified to obtain a representative measure. It is expected that this attribute may

Entity Name:	DIAM ASSMT (cont'd)	Short Name:	DIASM
---------------------	---------------------	--------------------	-------

only be used in post collection (validation) processing.

Denotes if the diameter is representative of the population.

<< 1998-03-27-11:10 sourced from:346868:347400 >>

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MUST BE recorded for one and only one TREE MEASUREMENT

** = Relationships in primary unique identifier.*

Unique Identifiers:

DIASM1	<i>Primary</i>	Y
--------	----------------	---

DIAM_ASSMT_SKEY

Notes:

<< 1998-03-27-11:10 sourced from:346868:346907 >>

Entity Name: ECO REGION				<i>Short Name:</i> ER	
<i>Plural:</i> ECO REGIONS					
<i>Init. Volume:</i> 300		<i>Avg. Volume:</i> 500		<i>Max. Volume:</i> 1000	
<i>Annual Growth Rate:</i>					

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ECO REGION SKEY	SKEY 7	N	NUMBER	7,0
ECO REGION CD		N	CHAR	1
<< 1998-03-26-15:35 sourced from:7003:230027 >>				
DESCRIPTION		N	VARCHAR2	50
<< 1998-03-26-15:35 sourced from:7003:230028 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE containing one or more PLOT CLUSTERS

* = Relationships in primary unique identifier.

Unique Identifiers:

ER1	Primary	Y
ECO REGION SKEY		

Notes:

<< 1998-03-26-15:35 sourced from:7003:229762 >>

Data Administration
Entity Definition Report

Entity Name: ECOSYSTEM DESCRIPTION DETAIL				Short Name:	ESDD
Plural:	ECOSYSTEM DESC DETAILS				
Init. Volume:	5000	Avg. Volume:	7500	Max. Volume:	10000
				Annual Growth Rate:	5%
Subtype of:	NON TREE ELEMENT ASSMT				

Description:

Observed BC Land Clasification Codes and SiteSeries recorded

on Vegetation Cover Sample Card EP - Ecological Decsription 12 -

Ecosystem Decsription section.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ECOSYS DESCR SKEY		N	NUMBER	7
System generated UID from ORACLE sequence ecosys_desc_seq.				

<< 1998-03-26-17:06 sourced from:7003:537291 >>

SOIL MOISTURE LOW BND	HYGROTOPE	Y	VARCHAR2	1
A code to denote, on a relative scale, the available moisture supply for plant growth. The relative moisture supply refers to the hygrotope as it relates to the capacity of a soil to hold loose or recieve water. It is determined from the soil's properties and position in the la ndscape, regardless of climate.				

The lower bound is to accomodate a range. If there is no range, the
upper bound equals lower bound.

Reference: "Describing Ecosystems in the Field", MOE Manual

11, Province of B.C. 1990, p 34-37.

SOIL MOISTURE UPPER BND	HYGROTOPE	Y	VARCHAR2	1
A code to denote, on a relative scale, the available moisture supply for plant growth. The relative moisture supply refers to the				

Entity Name:	ECOSYSTEM DESCRIPTION DETAIL (cont'd)	Short Name:	ESDD
---------------------	---------------------------------------	--------------------	------

hygrotope as it relates to the capacity of a soil to hold loose or
recieve water. It is determined from the soil's properties and
position in the la ndscape, regardless of climate.

The upper bound is to accomodate a range. If there is no range, the
upper bound equals lower bound.

Reference: "Describing Ecosystems in the Field", MOE Manual
11, Province of B.C. 1990, p 34-37.

<< 1998-03-26-17:06 sourced from:7003:537312 >>

SOIL NUTRIENT LOWER BND	TROPHOTOPE	Y	VARCHAR2	1
-------------------------	------------	---	----------	---

A code to denote, on a relative scale, the available nutrient supply
for plant growth. The soil's nutrient regime (trophotope) integrates
any environmental and biotic parameters which, in combination,
determine the actual amounts of available nutrients.

The bound is to accomodate a range. If there is no range in the
assessment of soil nut rient regime, then upper bound equals lower
bound.

Reference: "Describing Ecosystems in the Field", MOE Manual 11,
Province of B.C. 1990, p37-40

<< 1998-03-26-17:06 sourced from:7003:537313 >>

SOIL NUTRIENT UPPER BND	TROPHOTOPE	Y	VARCHAR2	1
-------------------------	------------	---	----------	---

A code to denote, on a relative scale, the available nutrient supply
for plant growth. The soil's nutrient regime (trophotope) integrates
any environmental and biotic parameters which, in combination,

Data Administration
Entity Definition Report

Entity Name:	ECOSYSTEM DESCRIPTION DETAIL (cont'd)	Short Name:	ESDD
---------------------	---------------------------------------	-------------	------

determine the actual amounts of available nutrients.

The bound is to accomodate a range. If there is no range in the assessment of soil nut rient regime, then upper bound equals lower bound.

Reference: "Describing Ecosystems in the Field", MOE Manual 11, Province of B.C. 1990, p37-40

SITE SERIES COVERAGE	PERCENTAGE 100	Y	NUMBER	3,0
Ecosystem Description Site Series coverage percent. Up to three coverages can be entered.				

<< 1998-03-26-17:06 sourced from:7003:537290 >>

PLOT CENTRE IND	INDICATOR	N	VARCHAR2	1
Indicates whether or not the ecological description details relates to the plot centre within the cluster element.				

If the ecological description details relate to the plot centre (indicator = 'Y') then the point location for the description if known - the point location relating to the cluster element, the plot centre. If the details do not relate to the plot centre, the actual physical location in not known, only that the details relate to some point within the plot, defined by the cluster element.

<< 1998-03-26-17:06 sourced from:7003:569259 >>

FIELD SEQ NUM		Y	NUMBER	3
A number representing the order the ecosystem details were captured				

Data Administration
Entity Definition Report

Entity Name:	ECOSYSTEM DESCRIPTION DETAIL (cont'd)	Short Name:	ESDD
---------------------	---------------------------------------	-------------	------

from the VRI field cards.

<< 1998-03-26-17:06 sourced from:7003:578418 >>

DISTRIBUTION TRANSITION CD	BGC DIST TRANS	Y	NUMBER	2
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- MAY BE augmented by one and only one BC LAND COVER CLASSIFICATION CD
- MAY BE observed for one and only one SITE SERIES CD
- MAY BE recorded during one or more SITE FEATURE ASSMTS
- * = Relationships in primary unique identifier.

Unique Identifiers:

ESDD1	Primary	Y
ECOSYS DESCR SKEY		

Notes:

<< 1998-03-26-17:06 sourced from:7003:537109 >>

Entity Name:	ENVIRONMENTALLY SENSITIVE AREA			<i>Short Name:</i>	ESAI
<i>Plural:</i>	ESA INTRPRTNS				
<i>Init. Volume:</i>	5000	<i>Avg. Volume:</i>	7500	<i>Max. Volume:</i>	10000
<i>Annual Growth Rate:</i>	4%				
<i>Subtype of:</i>	INTERPRETATION				

Description:

The classification as an Environmentally Sensitive Area (ESA).

The ESA program, initiated in 1976, classifies areas according to a number of criteria with the objective of delinating areas that are:

- sensitive to extractive forest practise (that is causing long term degredation of growing capacity), or
- are valuable to resources other that wood fibre, e.g. recreation, wildlife, etc.

NB: In the course developing the Vegetation Inventory, and in conjunction with the Resource Inventory Committee (RIC), the ESA activities are not a component of classification of the Vegetative Inventory and are to be retained as a separate theme with another data custodian.

The inclusion of ESA in this Vegetative Cover application is temporary only; when this activity and cummulative data has a 'owner' and 'home' it will transferred to a separately accessible theme.

(J Hughes, 97-04-8)

Entity Name: ENVIRONMENTALLY SENSITIVE AREA (cont'd)

Short Name: ESAI

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
ESA CATEGORY NUM	ESA CATEGORY LEVEL	Y	NUMBER	1,0

The relative level, or in business terms, 'category' of importance of the observation of an Environmentally Sensitive Area (ESA).

It is expected that there will be only two observations per polygon, as per the maximum contained in the source FIP file.

<< 1998-03-26-11:44 sourced from:236464:506680 >>

ESA WILDLIFE SPECIES 1 CD	ESA WILDLIFE SPECIES	Y	VARCHAR2	1
A wildlife species or other threatened or endangered species that				

occurs in an Environmentally Sensitive area.

NB: the denormalized design represents a decision based on the short term nature of retaining this attribution in the Vegetative Cover database. JH

denormalized design on account of short term business need

<< 1998-03-26-11:44 sourced from:236464:506709 >>

ESA WILDLIFE SPECIES 2 CD	ESA WILDLIFE SPECIES	Y	VARCHAR2	1
A wildlife species or other threatened or endangered species that				

occurs in an Environmentally Sensitive area.

NB: the denormalized design represents a decision based on the short term nature of retaining this attribution in the Vegetative Cover database. JH

denormalized design on account of short term business need

<< 1998-03-26-11:44 sourced from:236464:506722 >>

ESA WILDLIFE SPECIES 3 CD	ESA WILDLIFE SPECIES	Y	VARCHAR2	1
A wildlife species or other threatened or endangered species that				

Entity Name:	ENVIRONMENTALLY SENSITIVE AREA (cont'd)	Short Name:	ESAI
---------------------	---	--------------------	------

occurs in an Environmentally Sensitive area.

NB: the denormalized design represents a decision based on the short term nature of retaining this attribution in the Vegetative Cover database. JH

denormalized design on account of short term business need

<< 1998-03-26-11:44 sourced from:236464:506723 >>

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MUST BE classified by one and only one ENVIRONMENTALLY SENSITIVE AREA CD
* = *Relationships in primary unique identifier.*

Notes:

06 MAY 97 - JRT - This is denormalized to allow storage of the FIP originated attributes. Since this is not a business area that MOF is responsible for, there is little value in any effort to model this data beyond its current form.

<< 1998-03-26-11:44 sourced from:236464:506674 >>

Data Administration
Entity Definition Report

Entity Name: ENVIRONMENTALLY SENSITIVE AREA C		<i>Short Name:</i>	ESAC
<i>Plural:</i>	ENV SENSITIVE AREA CDS		
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	750
		<i>Max. Volume:</i>	750
		<i>Annual Growth Rate:</i>	

Description:

The valid codes for areas delineated in the course of an forest inventory, that represent areas delineated for the purpose of identifying environment, technical social and economic constraints. The 'inventory' in this context refers to the period of 1973 the inception of the ESA initiative, to 1996 the beginning of the the Vegetation Inventory.

The Vegetation Inventory does not incorporate the precepts of ESA classification, and it is expected that this subject area will be assumed by another business area.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ESA SKEY	SKEY 7	N	NUMBER	7,0
The system-generated surrogate indentifier of an Environmentally Sensitive Area.				
<< 1998-03-26-11:44 sourced from:236464:506705 >>				
ESA CD		N	VARCHAR2	3
The code value for an Environmentally Sensitive Area.				
<< 1998-03-26-11:44 sourced from:236464:506703 >>				
ESA DESC		Y	VARCHAR2	50
The description of the Environmentally Sensitive Area.				
<< 1998-03-26-11:44 sourced from:236464:506704 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE prescribing the values for one or more ESA INTRPRTNS
* = Relationships in primary unique identifier.

Data Administration
Entity Definition Report

Entity Name:	ENVIRONMENTALLY SENSITIVE AREA C (cont'd)	Short Name:	ESAC
---------------------	---	--------------------	------

Unique Identifiers:

ESAC1	Primary	Y
ESA SKEY		

Notes:

<< 1998-03-26-11:44 sourced from:236464:506697 >>

Entity Name: FEATURE CLASS CD			<i>Short Name:</i>	FCDE
<i>Plural:</i>	FEATURE CLASS CODES			
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	2500	<i>Max. Volume:</i> 5000
			<i>Annual Growth Rate:</i>	

Description:

A code that specifies the type of spatial feature being represented

e.g. river, Forest Cover Polygon, Road). Feature Codes are assigned on

a province-wide basis by the Data Administration Group of ISB.

Featrure Codes are assigned using the Canadian Council on Surveying

and Mapping (CCSM) feature code specifications (as used by GDBC).

CCSM Feature Codes are 12 character alphanumeric strings in the form

AANNNNNNNNNN. To facilitate storing Feature Codes in GIS files that

can not handle alphanumeric keys, a Feature Code Number will be used

to represent them. Each Feature Code will be assigned a Feature

Number.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DESCRIPTION		Y	VARCHAR2	50
<< 1998-03-26-17:12 sourced from:236464:439843 >>				
FEATURE CODE		N	CHAR	12
A 12 character alphanumeric code assigned by Data Administration that				
uniquely identifies a type of spatial feature being represented e.g.				
river, lake, road, Forest Cover Polygon...				
Feature Codes are unique on a province wide basis.				
<< 1998-03-26-17:12 sourced from:236464:345748 >>				
* FEATURE CODE NUMBER		N	NUMBER	14,0
A unique identifier assigned by ISP to represent a alphanumeric				
Feature Code to adapt to those GIS systems that can not handle such				

Entity Name:	FEATURE CLASS CD (cont'd)	Short Name:	FCDE
alpha codes.			

<< 1998-03-26-17:12 sourced from:236464:345532 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE described by one or more POLYGONS
* = Relationships in primary unique identifier.

Unique Identifiers:

FCDE1	Primary	Y
FEATURE CODE NUMBER		

Notes:

! 10 sept 96 - JRT - there are some other spatial definition
attributes (e.g. line type, fill color, overlapping/non overlapping
polygons, continuous/non continuos lines etc)
that are not included in this definition as the attribute
data only needs the feature code for cross reference between the
spatila data source and the RDBMS.

<< 1998-03-26-17:12 sourced from:236464:345516 >>

Entity Name:	FEATURE ID NUMBER CONTROL			<i>Short Name:</i>	FINC
<i>Plural:</i>	FEATURE ID NUMBER CONTROLS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	2500	<i>Max. Volume:</i>	4000
			<i>Annual Growth Rate:</i>		

Description:

These are the control numbers for each district and region that are used to generate the FEATURE NUMBER unique identifier for a new occurrence of a FEATURE CODE in that Organization Unit.

Each FEATURE NUMBER is concatenated from the Control ID number which is unique for each district/region and the Generated Number which is an increasing sequence number, beginning at 1, for that Feature Code within a Control Id.

Control Id's are assigned by the Data Administration Group of ISB.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FEATURE CONTROL SKEY	SKEY 7	N	NUMBER	7,0
The District/region id control number assigned by Data Administration to each District Region office that can create spatial objects.				

<< 1998-03-26-17:12 sourced from:236464:345975 >>

CONTROL SEQUENCE NUMBER	INT 32	N	NUMBER	20
The next number to be assigned for a FEATURE CODE for an administration unit.				

Entity Name: FEATURE ID NUMBER CONTROL (cont'd)

Short Name:

FINC

<< 1998-03-26-17:12 sourced from:236464:345976 >>

EFFECTIVE DATE

N DATE

The calendar date indicating when use of a control id and control number began.

<< 1998-03-26-17:12 sourced from:236464:345749 >>

EXPIRY DATE

Y DATE

The calendar date when a control id and control number ceased to be used.

<< 1998-03-26-17:12 sourced from:236464:345750 >>

CREATE DATE

N DATE

The calendar date timestamp when a record was created.

<< 1998-03-26-17:12 sourced from:236464:345754 >>

CREATE USER ID

N VARCHAR230

The Oracle user id of the person who created a record.

<< 1998-03-26-17:12 sourced from:236464:345755 >>

MODIFY DATE

Y DATE

The date timestamp when a record was last modified.

<< 1998-03-26-17:12 sourced from:236464:345756 >>

MODIFY USER ID

Y VARCHAR230

The Oracle userid of the person who originated the last change to a record.

<< 1998-03-26-17:12 sourced from:236464:345757 >>

* = Attributes in primary unique identifier.

Data Administration
Entity Definition Report

Entity Name:	FEATURE ID NUMBER CONTROL (cont'd)	<i>Short Name:</i>	FINC
---------------------	------------------------------------	--------------------	------

Unique Identifiers:

FINC1	Primary	Y
FEATURE CONTROL SKEY		

Notes:

! 10 sept 96 - JRT - a pre-insert trigger on the Vegetative Cover

Classification Table would use these control fields to generate the

Feature NUmber for the specific occurrence of a Vegetative COver

Polygon being inserted.

Entity Name: FERTILIZER			Short Name:	FM
Plural:	FERTILIZERS			
Init. Volume:	0	Avg. Volume:	0	Max. Volume: 0
			Annual Growth Rate:	0%

Description:

A custom blend or commercially supplied mixture, which on application, is designed to increase the growth of the target species. Would be commonly known as Urea, Ammonium Sulphate, etc.

There is some confusion as to what a fertilizer is given its common usage; the above definition is considered to apply, given that the nutritive elements can sometimes be called the same. The nutritive elements are attributed separately in Fertilizer Chemical.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
FERTILIZER NAME		N	VARCHAR2	75
The given name of the fertilizer; it could be a commercial name or the name/batch of a custom blend.				

<< 1998-03-26-15:37 sourced from:7003:233454 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a component of one or more FERTILIZER APPLICATIONS
MUST BE composed of one or more FERTILIZER COMPOSITIONS
* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-15:37 sourced from:7003:233447 >>

Data Administration
Entity Definition Report

Entity Name: FERTILIZER APPLICATION		<i>Short Name:</i>	FERA
<i>Plural:</i>	FERTILIZER APPLICATIONS		
<i>Init. Volume:</i>	0	<i>Avg. Volume:</i>	0
		<i>Max. Volume:</i>	0
		<i>Annual Growth Rate:</i>	0%

Description:

The application specification of fertilizer for treatment.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
FERTILIZER WEIGHT		N	NUMBER	6,2

The weight of fertilizer applied for treatment, usually to

a known area.

<< 1998-03-26-15:37 sourced from:7003:233445 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE made of one and only one FERTILIZER

MUST BE specifying the fertilizer content for one and only one FERTILIZING TREATMENT

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-15:37 sourced from:7003:233348 >>

Entity Name: FERTILIZER CHEMICAL			<i>Short Name:</i>	FCHE
<i>Plural:</i>	FERTILIZER CHEMICALS			
<i>Init. Volume:</i>	0	<i>Avg. Volume:</i>	0	<i>Max. Volume:</i> 0
			<i>Annual Growth Rate:</i>	0%

Description:

An chemical element or compound applied to trees or forest stands
for the purpose of increasing their growth.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
COMMON NAME		N	VARCHAR2	50

The given or common descriptive name of a fertilizer
element or compound.

E.g. potassium nitrate, sulfur etc.

<< 1998-03-26-15:37 sourced from:7003:233665 >>

CHEMICAL FORMULA	N	VARCHAR2	25
------------------	---	----------	----

The formula of an element or a compound that is used
as a component of fertilizer using the standard annotation
convention.

Eg. K2SO4

<< 1998-03-26-15:37 sourced from:7003:233666 >>

NUTRIENT ELEMENT	N	VARCHAR2	3
------------------	---	----------	---

The abbreviation from the Periodic Table of Elements
for the element that is the nutrient component
of the chemical.

<< 1998-03-26-15:37 sourced from:7003:233667 >>

NUTRIENT PCT	N	NUMBER	3,0
--------------	---	--------	-----

The percent, by weight, of the nutrient in the chemical. If the
chemical is an element, this value will be 100 and if it is
compound, this value will be less than 100.

Data Administration
Entity Definition Report

Entity Name:	FERTILIZER CHEMICAL (cont'd)	<i>Short Name:</i>	FCHE
---------------------	------------------------------	--------------------	------

<< 1998-03-26-15:37 sourced from:7003:233668 >>

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE a component of one or more FERTILIZER COMPOSITIONS

* = *Relationships in primary unique identifier.*

Notes:

<< 1998-03-26-15:37 sourced from:7003:233471 >>

Entity Name:	FERTILIZER COMPOSITION	<i>Short Name:</i>	FMC
<i>Plural:</i>	FERTILIZER COMPOSITIONS		
<i>Init. Volume:</i>	0	<i>Avg. Volume:</i>	0
		<i>Max. Volume:</i>	0
		<i>Annual Growth Rate:</i>	0%

Description:

The association of a fertilizing chemical and the mixture

in which it is used.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
COMPOSITION PCT		N	NUMBER	3,0
The percent, by weight, of the Fertilizer Chemical as a component of				
the Fertilizer.				

<< 1998-03-26-15:37 sourced from:7003:233664 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE a component of one and only one FERTILIZER

MUST BE made of one and only one FERTILIZER CHEMICAL

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-15:37 sourced from:7003:233460 >>

Entity Name:	FERTILIZING TREATMENT	Short Name:	FT
Plural:	FERTILIZING TREATMENTS		
Init. Volume:	0	Avg. Volume:	0
		Max. Volume:	0
		Annual Growth Rate:	0%
Subtype of:	TREATMENT		

Description:

The application of fertilizer to a presribed unit of treatment

at a given point in time.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
APPLICATION DATE		N	DATE	
The date of fertilizer application.				

<< 1998-03-26-15:39 sourced from:7003:233355 >>

FERTILIZED AREA	N	NUMBER	5,2
The treatment area fertilized. Expected to be a plot and			
its buffers if any in the context of experiments.			

A! It is not known how to attribute the treatment of stands,

when the area maybe indeterminate, and yet the plot is

fertilized on account of being in the stand.

<< 1998-03-26-15:39 sourced from:7003:233356 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE quantifying one or more FERTILIZER APPLICATIONS

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-15:39 sourced from:7003:232622 >>

Entity Name:	FIELD DATA BIT MAP IMAGE	<i>Short Name:</i>	BIT
<i>Plural:</i>	FIELD DATA BIT MAP IMAGES		
<i>Init. Volume:</i>	0	<i>Avg. Volume:</i>	50
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	1%

Description:

The scanned image associated with an activity relating to sample measurement/data collection.

Currently, no operational system exists to capture this data, though there maybe one-off projects to capture this data.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* IMAGE SKEY	The surrogate identifier of a bit map image.		N NUMBER	7,0
	<< 1998-03-26-15:02 sourced from:7003:344045 >>			
IMAGE SUBJECT TYPE	The main subject/purpose for which the image was taken. Known examples are still photos taken and field sheets.		N VARCHAR2	10
	<< 1998-03-26-15:02 sourced from:7003:414974 >>			
BIT MAP IMAGE	The bit map image.		N IMAGE	
	<< 1998-03-26-15:02 sourced from:7003:344046 >>			
FIELD SHEET SEQ NUM	A business assigned number to a field sheet. Optional, usually only a Field Sheet ID (a character based id) is assigned.		Y NUMBER	2,0
	<< 1998-03-26-15:02 sourced from:7003:414975 >>			
IMAGE ACQUISITION DATE	The date the image was aquired. For photograhs, it would be the same as the Measurement Date.		Y DATE	
	<< 1998-03-26-15:02 sourced from:7003:414976 >>			
PHOTO DIRECTION ANGLE	AZIMUTH BRG		Y NUMBER	3,0
	The azimuth bearing of the direction of the photograph. Usually a			

Entity Name: FIELD DATA BIT MAP IMAGE (cont'd)

Short Name:

BIT

prescribed rule is followed, though it can differ.

<< 1998-03-26-15:02 sourced from:7003:414977 >>

FIELD SHEET ID

Y

VARCHAR2

10

The business field sheet identifier, often called the 'card type' from

which the image was taken.

For example, Vegetation Inventory has 'EO', 'ET' 'TD' etc.

<< 1998-03-26-15:02 sourced from:7003:344059 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE belong to one and only one POINT LOCATION VISITATION

* = Relationships in primary unique identifier.

Unique Identifiers:

BIT1

Primary

Y

IMAGE SKEY

Notes:

<< 1998-03-26-15:02 sourced from:7003:344038 >>

Entity Name: FIELD SHEET QA ACTIVITY			<i>Short Name:</i>	FSQA
<i>Plural:</i>	FIELD SHEET QA ACTIVITIES			
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100	<i>Max. Volume:</i> 500
			<i>Annual Growth Rate:</i>	2%

Description:

The confirmation of the collected data for a business category

and/or plot type. This is recorded on the summary field sheet of

vegetation inventory, field sheet TH.

Each business category e.g. 'Ecological', 'Range' etc. may comprise of

several formats of field sheets; hence this quality assurance activity

represents a summary.

A field sheet based quality assurance activity is supported in the

attribution and maybe preferred at a later time.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FIELD SHEET QA SKEY	A surrogate identifier of the field sheet quality assurance activity. << 1998-03-26-15:40 sourced from:7003:445054 >>	N	NUMBER	7,0
FIELD SHEET BUSINESS ID	The business identifier of the field sheet. This attribution is not needed in the current rendition of the field sheets, but may be utilized when there is an individualized quality assurance activity recorded for each field sheet. << 1998-03-26-15:40 sourced from:7003:445036 >>	Y	VARCHAR2	5
PLOT TYPE CATEGORY NAME	The business name and/or category by which the quality assurance is performed. From the Vegetation Inventory Header Card (TH). By name they are Main, North, East, West, Range, Ecological, and Coarse	N	VARCHAR2	

Entity Name:	FIELD SHEET QA ACTIVITY (cont'd)	Short Name:	FSQA
---------------------	----------------------------------	--------------------	------

Woody Debris.

These names are not particular rigorous in definition, as the 'Main' plot to an ecologist would not be the 'Main' plot to a forest mensurationist. Furthermore, each term may include several different field sheets that comprise of the business category. For example, 'Ecological' references the EP, ED, ET, EH and EO field sheets, and thereby assumes that they are all included together or not.

<< 1998-03-26-15:40 sourced from:7003:407936 >>

DATA COLLECTION IND	N	VARCHAR2	1
A confirmation that data was collected in the field for a given business category type.			

<< 1998-03-26-15:40 sourced from:7003:407937 >>

QA CHECK DATE	Y	DATE
The date quality assurance was undertaken for the sample.		

<< 1998-03-26-15:40 sourced from:7003:407938 >>

QA LEVEL TYPE	N	VARCHAR2	10
The level, in reference to the location, of quality assurance that is applied to collected data. The expectable values are Field and Office. Each confers separate activities and degrees of resolution of action.			

For example, field collected quality assurance means that the collected data can be corrected, whereas office level quality

Entity Name:	FIELD SHEET QA ACTIVITY (cont'd)	Short Name:	FSQA
---------------------	----------------------------------	--------------------	------

assurance would infer completeness.

<< 1998-03-26-15:40 sourced from:7003:407958 >>

* = Attributes in primary unique identifier.

Unique Identifiers:

FSQA1	Primary	Y
FIELD SHEET QA SKEY		

Notes:

<< 1998-03-26-15:40 sourced from:7003:407919 >> A! SEE BELOW

this entity is for bookmarking analysis only; it should not be implemented as is. If implementation of these business areas are required, it should be combined with current QUALITY ASSURANCE related entities that originated in MUMS.

Data Administration
Entity Definition Report

Entity Name:	FIP DAMAGE AGENT REDUNDANT CD	Short Name:	FIPDACD
Plural:	FIP DAMAGE AGENT REDUNDANT CDS		
Init. Volume:	100	Avg. Volume:	200
		Max. Volume:	500
		Annual Growth Rate:	

Description:

The mapping of a FIP based damage agent to the equivalent FCAP

damage agent code.

The Damage Agents are being converted for the purpose of removing

redundancies. e.g. the values for the Douglas Fir Tussock Moth, ' 3',

'03' will be converted to the Ministry standard value of 'IDT'. (The

current FCAP version is deemed to be the Ministry standard, until such

time as the Damage Agent codes are stabilized).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FIPDACD SKEY	SKEY 7	N	NUMBER	7,0
Surrogate key for FIP Damage Agent Redundant Code.				
<< 1998-03-26-12:05 sourced from:236464:609140 >>				
ACTIVITY CD		N	VARCHAR2	2
A redundant ACTIVITY CODE.				
<< 1998-03-26-12:05 sourced from:236464:578437 >>				
ACTIVITY SUB CD		Y	VARCHAR2	3
A redundant ACTIVITY SUB CODE.				
<< 1998-03-26-12:05 sourced from:236464:594988 >>				
LATIN NAME		Y	VARCHAR2	50
The latin name of the Damage Agent.				
<< 1998-03-26-12:05 sourced from:236464:594989 >>				
COMMON NAME		Y	VARCHAR2	50
Common name of the FIP Damage Agent Code value.				
<< 1998-03-26-12:05 sourced from:236464:578438 >>				

* = Attributes in primary unique identifier.

Relationships:

Data Administration
Entity Definition Report

Entity Name:	FIP DAMAGE AGENT REDUNDANT CD (cont'd)	Short Name:	FIPDACD
---------------------	--	--------------------	---------

Each Occurrence Of This Entity:

MUST BE resolved to one and only one DAMAGE AGENT CD FCAP VERSION
* = Relationships in primary unique identifier.

Unique Identifiers:

FIPDACD2	Primary	N
ACTIVITY CD		
ACTIVITY SUB CD		
FIPDACD1	Primary	Y
FIPDACD SKEY		

Notes:

<< 1998-03-26-12:05 sourced from:236464:578429 >>

Entity Name: FIP INTERPRETATION				<i>Short Name:</i>	FI
<i>Plural:</i>	FIP INTERPRETATIONS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i>	500
<i>Annual Growth Rate:</i>					
<i>Subtype of:</i>	ADJUSTMENT FACTOR				

Description:

The FIP supplied adjustment factor as per the FIP DIctionary, named as

VOLUME ADJUSTMENT FACTOR.

This tree volume adjustment factor is user supplied in the

circumstances where a silvicultural determination is such that the

volume production would be less than the VDYP or other mathematical

growth model would predict.

This is not a Vegetation Inventory attribute, as this will be replaced

by a statistically rigorous process based on samples, the LOSS

subtype of ADJUSTMENT FACTOR.

NB: the value of zero, curiously meaning no adjustment, is not

permitted in this design, it is represented by its absence (no

relationship to DERIVED VALUE) to eliminate any potential confusion.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
FIP ADJUST FACTOR	FIP TREE VOLUME	Y	NUMBER	4,2
A localized factor used to adjust the derivation of net tree volumes.				

This factor would be applied subsequent to the standard

Ministry adjustments for decay, waste and breakage.

This factor is supplied by individual interpreters, and is to reflect

the condition, based on a silvicultural determination, of lower

Entity Name:	FIP INTERPRETATION (cont'd)	Short Name:	FI
---------------------	-----------------------------	--------------------	----

(ususally) volume production than can be predicted from current mathematical models (e.g. VDYP).

This is retained for FIP legacy purposes only; adjustments for Vegetative Cover would be derived from samples in the land unit of interest (LOSS subtype of ADJUSTMENT FACTOR).

<< 1998-03-26-11:55 sourced from:236464:508605 >>

* = *Attributes in primary unique identifier.*

Notes:

<< 1998-03-26-11:55 sourced from:236464:508599 >>

Entity Name: FIP LAYER LOAD RULE			<i>Short Name:</i>	FLLR
<i>Plural:</i>	FIP LAYER LOAD RULES			
<i>Init. Volume:</i>	15	<i>Avg. Volume:</i>	15	<i>Max. Volume:</i> 50
			<i>Annual Growth Rate:</i>	

Description:

A rule used in the conversion of an historical FIP based layer classification of a vegetated layer to the corresponding Vegetation Inventory based layer classification.

For example, if a veteran layer is present (i.e. layer type is 'V' in the FIP file), then convert the veteran layer to layer '1', layer '1' to layer '2', layer '2' to layer '3' etc..

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FIP LAYER LOAD RULE SKEY	SKEY 7	N	NUMBER	7,0
The surrogate identifier of a FIP LAYER LOAD RULE.				
<< 1998-05-01-12:42 sourced from:236464:521290 >>				
FIP STAND LAYER CD		Y	VARCHAR2	1
The unique business indentification of a layer, or horizontal stratum, in a stand. Each layer is normally characterized as a distinct canopy containing a common forest cover structure with timber of similar ages and heights. Layers are assigned from the tallest layer downward.				
This set of values applies to the FIP file and differs from the proposed flat ASCII output file as described in the VEG FOREST COVER LAYER domain.				
<< 1998-05-01-12:42 sourced from:236464:521288 >>				
FIP SECONDARY ELEMENT CD		Y	VARCHAR2	1
A code indicating that the stand has a secondary layer despite being described as having only one layer in the FIP file (i.e. only one				

Entity Name: FIP LAYER LOAD RULE (cont'd)

Short Name: FLLR

Layer Record). The code defines the "type" of secondary layer; for example, Veterans, Immature, etc. This code is only found on records collected (e.g. CC Card Source Records) prior to the present method of collecting and storing information by layer.

<< 1998-05-01-12:42 sourced from:236464:521289 >>

VET LAYER PRESENT INDICATOR

Y VARCHAR21

An indication of the existence or non-existence of a Veteran Layer record for the Polygon or the existence of a Veteran or Volume Secondary Element as defined on the Polygon Record.

A value of 'N' indicates that none of the previously mentioned conditions exist. A value of 'Y' indicates that at least one of the previously mentioned conditions exist. A value of '%' indicates that the absense/presence of the previously mentioned conditions has no bearing on the FIP LAYER LOAD RULE.

<< 1998-05-01-12:42 sourced from:236464:521293 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MUST BE applied to resolve one and only one LAYER CLASSIFICATION DESCRIPTION
* = Relationships in primary unique identifier.

Unique Identifiers:

FLLR1Primary Y

FIP LAYER LOAD RULE SKEY

Notes:

<< 1998-05-01-12:42 sourced from:236464:521280 >>

Entity Name:	FIP REGION DISTRICT REDUNDANT CD	<i>Short Name:</i>	FRDRC
<i>Plural:</i>	FIP REG DIST REDUNDANT CDS		
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100
		<i>Max. Volume:</i>	150
		<i>Annual Growth Rate:</i>	

Description:

The mapping of the FIP based Forest Region District codes to the Ministry standard Organization Unit Code (ORG UNIT).

The purpose is to rationalize codes for Forest Regions and Districts to a single standard.

For example, the FIP based code for the Chilliwack District is '31A' and is converted (by way of mapping) to 'DCK'.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* REGION DISTRICT SKEY	SKEY 7	N	NUMBER	7,0
The system assigned identifier of a redundant Forest Region or District Code.				
Assigned by sequence FOR_R_D_SEQ.				
<< 1998-05-01-12:42 sourced from:236464:581856 >>				
REGION DISTRICT CD		N	VARCHAR2	8
The identifying (redundant) business code for a Forest Region or District.				
<< 1998-05-01-12:42 sourced from:236464:581857 >>				
REGION DISTRICT NAME		Y	VARCHAR2	50
The name of the Forest Region or District.				
<< 1998-05-01-12:42 sourced from:236464:581858 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE resolved to one and only one ORG UNIT

Data Administration
Entity Definition Report

Entity Name:	FIP REGION DISTRICT REDUNDANT CD (cont'd)	Short Name:	FRDRC
---------------------	---	--------------------	-------

* = Relationships in primary unique identifier.

Unique Identifiers:

FRDRC2	Primary	N
REGION DISTRICT CD		
FRDRC1	Primary	Y
REGION DISTRICT SKEY		

Notes:

<< 1998-05-01-12:42 sourced from:236464:581848 >>

Entity Name: FIXED AREA PLOT				Short Name:	FXPLT
Plural:	FIXED AREA PLOTS				
Init. Volume:	50	Avg. Volume:	100	Max. Volume:	500
Annual Growth Rate:	5%				
Subtype of:	SPATIAL DELIMITER				

Description:

A plot bounded by prescibed dimensions, either a radius for circular plot or a length and width for a quadrangular plot. The plot dimensions are corrected in the field to a horizontal basis.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
AREA	PLOT AREA	N	NUMBER	7,6

The area, in hectares, of the fixed area plot.

HH93_S PLOT_PL_AREA, PLOT_PL_SUBAREA

SEF_S CT2:39-41,61-64 PLOT AREA

<< 1998-03-27-09:38 sourced from:346868:346797 >>

LENGTH	Y	NUMBER	6,3
--------	---	--------	-----

The length, in metres, of the longest side of the rectangular plot.

If the plot is square then this can be equal to the PLOT WIDTH.

HH93 PLOT_PL_LENGTH

OT_S Paper files

<< 1998-03-27-09:38 sourced from:346868:346799 >>

RADIUS	Y	NUMBER	6,3
--------	---	--------	-----

The plot radius, in metres, from plot centre to the boundary.

HH93_S PLOT_PL_RADIUS, PLOT_PL_SUB_RAD

SEF_S CT2:35-38, 57-60, 72-74 PLOT RADIUS

<< 1998-03-27-09:38 sourced from:346868:346800 >>

SHAPE CD	GEOMETRIC SHAPE	N	VARCHAR2	2
----------	-----------------	---	----------	---

A code representing the basic shape of a fixed area plot. This code applies to the fixed area plot being implement in full; that is to say this code signifies the shape of the plot in a full implementation

Entity Name:	FIXED AREA PLOT (cont'd)	Short Name:	FXPLT
---------------------	--------------------------	--------------------	-------

A partial circular implementation where half the available area was used 'swept' as a practical limitation to the number of trees would confer a different shape. The tree shape of a partial circular plot would be deduced from the start and end 'sweep' positions.

SEF_C Default = "C", if CT2:35-38 MAIN PLOT RADIUS is BLANK or zero and CT2:25 is BLANK, then = "R"

<< 1998-03-27-09:38 sourced from:346868:346796 >>

WIDTH	Y	NUMBER	6,3
-------	---	--------	-----

The length, in metres, of the shortest side of a rectangular plot. If the plot is square this will be equal to the PLOT LENGTH.

HH93_S PLOT_PL_WIDTH

OT_S Paper files

<< 1998-03-27-09:38 sourced from:346868:346798 >>

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE references on load one or more SEF RECTANGULAR PLOT LOAD RULES
** = Relationships in primary unique identifier.*

Notes:

<< 1998-03-27-09:38 sourced from:346868:346795 >>

Entity Name: FORAGE PRODUCTION MEASMT				Short Name:	FPM
Plural:	FORAGE PRODUCTION MEASMTS				
Init. Volume:	1000	Avg. Volume:	2000	Max. Volume:	5000
Annual Growth Rate:					
Subtype of:	NON TREE ELEMENT ASSMT				

Description:

The weight of forage, edible plant material utilized by animals, that

is produced within a designated period of time on a given area.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
OBSERVED PLOT FRACTION		Y	NUMBER	3,2
The fraction of each of the forage production plots that are observed				
and 'clipped' to obtain the graminoid and forb dry weights.				
* FORAGE MEASMT SKEY		N	NUMBER	7
System Generated UID from ORACLE sequence number FORAGE_MEASMT_SEQ.				
<< 1998-03-26-15:42 sourced from:7003:537260 >>				
FORBS DRY WEIGHT		Y	NUMBER	4,1
The oven dry weight, in grams, of the forbs collected from a				
forage plot.				
Data is entered after field sampling and subsequent oven drying.				
<< 1998-03-26-15:42 sourced from:7003:223210 >>				
GRAMINOIDS DRY WEIGHT		Y	NUMBER	4,1
The oven dry weight, in grams, of the graminoids collected from a				
forage plot.				
Data is entered after field sampling and subsequent oven drying.				
<< 1998-03-26-15:42 sourced from:7003:223211 >>				
GRAZING UTILIZATION CD		Y	VARCHAR2	6
<< 1998-03-26-15:42 sourced from:7003:223220 >>				
FORBS COLLECTED IND	INDICATOR DEFAULT Y	N	VARCHAR2	1

Entity Name: FORAGE PRODUCTION MEASMT (cont'd)

Short Name: FPM

A confirmation that samples of forbs were collected in the field.

This is to ensure that later activities of oven drying and recording
of the weight are trackable.

<< 1998-03-26-15:42 sourced from:7003:400003 >>

GRAMINOIDS COLLECTED IND

INDICATOR DEFAULT Y

N

VARCHAR2

1

A confirmation that samples of graminoids were collected in the field.

This is to ensure that later activities of oven drying and recording
of the weight are trackable.

<< 1998-03-26-15:42 sourced from:7003:400005 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE include one or more FORAGE UTILIZATION ASSMTS

* = Relationships in primary unique identifier.

Unique Identifiers:

FPM1

Primary Y

FORAGE MEASMT SKEY

Notes:

<< 1998-03-26-15:42 sourced from:7003:222559 >>

Entity Name:	FORAGE UTILIZATION CD	<i>Short Name:</i>	FUC
<i>Plural:</i>	FORAGE UTILIZATION CDS		
<i>Init. Volume:</i>	10	<i>Avg. Volume:</i>	20
		<i>Max. Volume:</i>	50
		<i>Annual Growth Rate:</i>	1%

Description:

A codified series of classes that describe the amount of grazing of herbaceous cover.

Load values from the vegetation inventory sampling manual, Table 9.1, March 31, 1997.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FORAGE UTILZN CLASS CD		N	NUMBER	2
The numeric code to of a class of forage utilization. Values are 0 to 5.				
<< 1998-03-26-15:42 sourced from:7003:400018 >>				
CLASS	FORAGE UTILIZATION CD	Y	CHAR	6
The assigned name of the class of forage utilization. Valid values are: Nil, Slight, Light, Moderate, Heavy, and Extreme.				
<< 1998-03-26-15:42 sourced from:7003:400019 >>				
DESCRIPTION		Y	VARCHAR2	256
The description of forage utilization. (From the table of the Sample Manual).				
<< 1998-03-26-15:42 sourced from:7003:400020 >>				
MIN UTILIZATION PCT	PERCENTAGE 100	N	NUMBER	3,0
The minimum bound of the percentage applied to the observation of grazed forage.				
<< 1998-03-26-15:42 sourced from:7003:400021 >>				
MAX UTILIZATION PCT	PERCENTAGE 100	Y	NUMBER	3,0

Entity Name:	FORAGE UTILIZATION CD (cont'd)	<i>Short Name:</i>	FUC
---------------------	--------------------------------	--------------------	-----

The maximum bound of the percentage applied to the observation of

grazed forage.

<< 1998-03-26-15:42 sourced from:7003:400022 >>

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE recorded at one or more FORAGE UTILIZATION ASSMTS
* = *Relationships in primary unique identifier.*

Unique Identifiers:

FUC1	<i>Primary</i>	Y
FORAGE UTILZN CLASS CD		

Notes:

<< 1998-03-26-15:42 sourced from:7003:400012 >>

Entity Name: FORAGE UTILIZATION ASSESSMENT				<i>Short Name:</i>	FUA
<i>Plural:</i>	FORAGE UTILIZATION ASSMTS				
<i>Init. Volume:</i>	1500	<i>Avg. Volume:</i>	2500	<i>Max. Volume:</i>	4000
				<i>Annual Growth Rate:</i>	10%

Description:

The observation of forage utilization in each of the 4 micro-plots in

Vegetation Ground Samples per Page 9-4 of the sampling procedures

manual.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PLOT NUMBER		N	NUMBER	2,0
The plot number (1-4 are valid entries) where the observation was				
made.				

<< 1998-03-26-15:42 sourced from:7003:557429 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MUST BE an observation of one and only one FORAGE UTILIZATION CD
- * MUST BE made during one and only one FORAGE PRODUCTION MEASMT
- * = Relationships in primary unique identifier.

Unique Identifiers:

FUA1	Primary	Y
MUST BE made during one and only one FORAGE PRODUCTION MEASMT		
PLOT NUMBER		

Notes:

<< 1998-03-26-15:42 sourced from:7003:557423 >>

Data Administration
Entity Definition Report

Entity Name: FOREST CLIENT				Short Name:	FCLNT
Plural:	FOREST CLIENTS				
Init. Volume:	75000	Avg. Volume:	80000	Max. Volume:	90000
				Annual Growth Rate:	5%
Subtype of:	VGIS AGENCY				

Description:

An individual, group, agency or business that undertakes some form of transaction with the Ministry of Forests. The nature of the transaction maybe either financial (the original intent) or other such as exchange of data where there were no monetary considerations.

This entity is equivalent to the Ministry FOREST CLIENT code table (warts and all).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CLIENT TYPE CD	The nature of the legal entity that is a client of the Ministry of Forests. For example, corporation, individual, partnership etc.	Y	VARCHAR2	1
<i>The type of legal entity which describes the client (agency etc.).</i>				
<< 1998-03-25-16:28 sourced from:346868:347518 >>				
LEGAL FIRST NAME	The client's legal first name.	Y	VARCHAR2	30
<i>The client's legal first name.</i>				
<< 1998-03-25-16:28 sourced from:346868:347516 >>				
LEGAL MIDDLE NAME	The client's legal middle name or names if an individual.	Y	VARCHAR2	30
<i>The client's legal middle name or names if an individual.</i>				
<< 1998-03-25-16:28 sourced from:346868:347517 >>				

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-25-16:28 sourced from:346868:347511 >>

Entity Name: FREQUENCY COUNT				<i>Short Name:</i>	FRQCNT
<i>Plural:</i>	FREQUENCY COUNTS				
<i>Init. Volume:</i>	30000	<i>Avg. Volume:</i>	150000	<i>Max. Volume:</i>	300000
				<i>Annual Growth Rate:</i>	5%
<i>Subtype of:</i>	NON TREE ELEMENT ASSMT				

Description:

For selected sub-populations of trees, (typically small trees on small fixed area plots), a frequency count by species and diameter class. Also known by the name 'Dot Count' on account of the paper-bound method of collecting this data, though no dots were ever counted, but only used as an aid in tallying.

Attributes:			
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>
CREATE DATE		N	DATE
The date of creation of the record.			
CREATE USER ID	ORACLE USER	N	VARCHAR2
* FREQ CNT SKEY	SKEY 7	N	NUMBER
<< 1998-03-27-13:05 sourced from:346868:347421 >>			
MODIFY DATE		Y	DATE
MODIFY USER ID	ORACLE USER	Y	VARCHAR2
TREE COUNT	NUM 4	N	NUMBER
The count, also called 'dot count' or frequency of the tree belonging to a species and a diameter class.			
<< 1998-03-27-13:05 sourced from:346868:346982 >>			
* = Attributes in primary unique identifier.			

Relationships:

Each Occurrence Of This Entity:

MUST BE recorded for one and only one INTERVAL CLASS

* = Relationships in primary unique identifier.

Unique Identifiers:	
FRQCNT1	Primary Y
FREQ CNT SKEY	

Notes:

<< 1998-03-27-13:05 sourced from:346868:346732 >>

Entity Name: GIS RESULTANT				Short Name:	RSLT
Plural:	GIS RESULTANTS				
Init. Volume:	440000	Avg. Volume:	6000000	Max. Volume:	10000000
				Annual Growth Rate:	5%

Description:

Resultant Records calculated by the GIS system for various themes and areas which bisect the VEGETATION POLYGON.

Attributes:					
<u>Name</u>		<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* RESULTANT SKEY			N	NUMBER	14,0
The system generated surrogate identifier of a resultant.					
<< 1998-03-26-17:13 sourced from:236464:441259 >>					
UTM 2000 M GRID ID			Y	NUMBER	8,0
The numeric identifier of the 2000 x 2000 meter UTM grid that occurs within a 6' x 12' mapsheet. For a biven 6' x 12' mapsheet the grid maybe partial or a full 400 ha.					
The Grid Number is defined by the first 3 numbers of the easting, and first 4 numbers on the northing of the south west corner of the grid.					
Grid origin is on even 2000 metre UTM positions. Partial grids maybe identified by coordinates that are outside the mapsheet.					
For example, a value of 5266048 implies that the easting has a value of 526 and a northing of 6048.					
<< 1998-03-26-17:13 sourced from:236464:432502 >>					
UTM 2000 M GRID AREA		2000 M UTM GRID AREA	Y	NUMBER	6,2
The area of a 2000 meter x 2000 meter grid that would occur within a 6' x 12' mapsheet.					

Entity Name:

GIS RESULTANT (cont'd)

Short Name:

RSLT

The highest value of 410 ha. reflects the business practise of incorporating adjoining 'slivers' with larger grids. (Slivers are small geographic areas usually created by overlayment of near coincident lines).

<< 1998-03-26-17:13 sourced from:236464:432503 >>

RESULTANT ID

N

NUMBER

6

Th business identifi for each of the resultant polygons in a polygonn. The resultant numbers are generated during overlay processing.

<< 1998-03-26-17:13 sourced from:236464:432504 >>

OVERLAY CREATE DATE

Y

DATE

The date Overlay Processing was completed. This process involves overlaying levels contained in the Graphics Design File with the Forest Cover Map (levels 9 and 10) to create resultant polygons.

Maps to FIP attribute, UPDATE DATE.

<< 1998-03-26-17:13 sourced from:236464:432505 >>

RESULT AREA

RESULTANT AREA

N

NUMBER

10,3

The area of the resultant polygon. The resultant area is determined during Overlay Processing. Resultant areas within a polygon must add to the entire polygon area.

<< 1998-03-26-17:13 sourced from:236464:432508 >>

ROAD AREA

Y

NUMBER

8,2

Area in the polygon that is removed from the Productive Forest Land Base due to the presence of roads within the polygon.

Data Administration
Entity Definition Report

Entity Name:	GIS RESULTANT (cont'd)	Short Name:	RSLT
---------------------	------------------------	--------------------	------

<< 1998-03-26-17:13 sourced from:236464:432514 >>

FISH AREA	Y	NUMBER	8,2
The area in the polygon that is removed from the Productive Forest Land Base because it is used to protect fish habitat. This area is usually a buffer area along waterways.			

<< 1998-03-26-17:13 sourced from:236464:432515 >>

ALR PRESENCE CD	FIP ALR PRESENCE	Y	NUMBER	2
The FIP based indication, with additional meaning, of the presence of a Agricultural Land Reserve (ALR) portion.				
Values are:				

00 meaning no ALR

01 meaning unreported ALR

88 meaning ALR present.

The Agricultural Land Reserve designation(s) that fall within the forest cover polygon. Agricultural Land Reserves (ALR) are areas designated as having a high agricultural value. An ALR designation does not preclude the management of the land for forest production. These Reserves are defined under Sections 1 and 8 of the Agricultural Land Commission Act.

<< 1998-03-26-17:13 sourced from:236464:432523 >>

REC MGMNT CD	FIP RECREATION MGMNT	Y	VARCHAR2	2
The Recreation Management Code describes the recommended objectives for guiding preharvest				

Data Administration
Entity Definition Report

Entity Name:	GIS RESULTANT (cont'd)	Short Name:	RSLT
---------------------	------------------------	--------------------	------

prescriptions in cutblock approval. These objectives
result from analyses, management objectives, or approved
prescriptions.

Numeric values permitted only, dashes converted to null.

<< 1998-03-26-17:13 sourced from:236464:432572 >>

PROV FOREST PRESENCE IND	INDICATOR	Y	VARCHAR2	1
1 character subcode designating inclusions/exclusions within a Provincial Forest.				

<< 1998-03-26-17:13 sourced from:236464:549506 >>

REC FEATURE CD		Y	VARCHAR2	6
The Recreation Feature(s) that fall within the polygon. This code describes the biophysical, visual or cultural features, and subfeatures, of the area. Typical features include Aquatic, Beaches, Hydrologic Features, Vegetation, Waterfalls and Rapids, Glaciers and Icefields, Landforms, Waterbody, Topographic Features, Rock Formations, Springs, etc. Subfeatures are used to further define the feature. For example, the Springs Feature can be subdivided into Thermal Springs (S1), Freshwater Springs (S2) and Mineral Springs (S3). This attribute can contain up to 3 of the most important features in the resultant.				

July 3, 1997

This attribute is directly populated from information in
the FIP file and has not been normalized as it is currently being
revisited by Recreation Branch (the custodian).

<< 1998-03-26-17:13 sourced from:236464:432573 >>

Data Administration
Entity Definition Report

Entity Name:	GIS RESULTANT (cont'd)	Short Name:	RSLT
---------------------	------------------------	-------------	------

REC ACTIVITY CD	Y	VARCHAR2	3
-----------------	---	----------	---

The Recreation Activity Code describes the existing or potential recreational use for the land based on its Recreational Features. For example, a Recreation Feature of "Waterbody" could have a Recreational Activity of angling, canoeing, etc.

July 3, 1997

This attribute is directly populated from information in the FIP file and has not been normalized as it is currently being revisited by Recreation Branch (the custodian).

<< 1998-03-26-17:13 sourced from:236464:432574 >>

REC FEATURE SIG	FIP RECREATION FEATURE SIGNIFICANCE	Y	VARCHAR2	1
-----------------	-------------------------------------	---	----------	---

The significance of recreational features within the polygon. The Recreation Feature Significance is a code describing the ability of the Recreational Feature to attract recreation, educational, or scientific users. The code is based on a 4 point rating scale.

<< 1998-03-26-17:13 sourced from:236464:432575 >>

REC MGMNT CLASS CD	FIP RECREATION MGMNT CLASS	Y	VARCHAR2	1
--------------------	----------------------------	---	----------	---

The Recreation Management Class indicates whether commonly accepted (i.e. normal) local management practices can provide adequate protection to the recreational values within the polygon. For example, areas with outstanding recreational valuemay be more appropriately managed exclusively for the purposes of recreation and not in conjunction with forest management practices.

<< 1998-03-26-17:13 sourced from:236464:432577 >>

Entity Name: GIS RESULTANT (cont'd)

Short Name: RSLT

REC ROSFIP RECREATION OPPORTUNITY SPECTRUMY NUMBER1

The Recreation Opportunity Spectrum contains seven

categories that describe the opportunity for users to access and experience the recreational values in the area (e.g. primitive, road access, rural, etc.).

<< 1998-03-26-17:13 sourced from:236464:432578 >>

PLANNING CELLVARCHAR24

A unit of land created for the purposes of forest management and

planning purposes. Planning areas are usually delineated along heights of land and administrative boundaries are are typically created or modified in advance of a Timber Supply analysis. From the forest inventory perspective, a common purpose is to serve as a more localized unit of data summary.

<< 1998-03-26-17:13 sourced from:236464:432533 >>

ELEVATION 100M CLASSELEVATION 100M CLASSY NUMBER3,0

The mean elevation above sea level grouped into a class of one hundred

metre increments.

Formally, based on the FIP Dictionary, it was thought that this attribute was the actual elevation value. Found to be not true.

<< 1998-03-26-17:13 sourced from:236464:432541 >>

SLOPE 10 PCT CLASSSLOPE 10 PCT CLASSY NUMBER2,0

The slope, grouped into classes of 10 percent.

Class 0 is 0 to 10 percent

2 is 11 to 20 percent

3 is 21 to 30 percent

Entity Name:	GIS RESULTANT (cont'd)	<i>Short Name:</i>	RSLT
---------------------	------------------------	--------------------	------

4 is 31 to 40 percent

5 is 41 to 50 percent

6 is 51 to 60 percent

7 is 61 to 70 percent

7 is 71 to 80 percent

8 is 81 to 90 percent

9 is 91 to 100 percent

Formally, as per the FIP Dictionary, this attribute was thought to be the actual slope value, but has been later found to be a class.

<< 1998-03-26-17:13 sourced from:236464:432542 >>

ASPECT CLASS	ASPECT CLASS	Y	NUMBER	1,0
The direction a slope faces, classed into 8 partitioned ranges of the 0 to 360 azimuth.				

Level ground has no aspect, hence the value of null, with the ASPECT LEVEL IND set to 'Y'.

<< 1998-03-26-17:13 sourced from:236464:432543 >>

ASPECT LEVEL IND	INDICATOR	Y	VARCHAR2	1
Indicates whether or not the land area is determined as level.				

'Y' means level (having no aspect, or a minimal slope(<2%) under the curent Vegetation Inventory standard.

'N' means not level with an expected accompanying azimuth bearing to denote the slope (>2%).

Replaces the various semantically overloaded conventions for no aspect

Entity Name:	GIS RESULTANT (cont'd)	Short Name:	RSLT
---------------------	------------------------	--------------------	------

(level ground), e.g. 0, dashes, 99 etc. Identical attribution to the Vegetation Inventory sample database implementation (not shared).

<< 1998-03-26-17:13 sourced from:236464:569138 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE subdivided by one and only one TSA CD
- or MAY BE subdivided by one and only one TSB CD
- MAY BE subdivided by one and only one BGC ZONAL CLASSIFCATION CD
- MAY BE subdivided by one and only one OPERABLE AREA CD
- MAY BE subdivided by one and only one ORG UNIT
- MAY BE subdivided by one and only one OWNERSHIP CD
- MAY BE subdivided by one and only one PROVINCIAL FOREST CD
- MAY BE subdivided by one and only one RANGE UNIT CD
- MAY BE subdivided by one and only one RCL AREA VALIDN CD
- MAY BE subdivided by one and only one RCL AREA VALIDN CD
- MAY BE subdivided by one and only one REGULATED FOREST AREA
- MAY BE subdivided by one and only one STOCK RANGE UNIT
- MAY BE subdivided by one and only one TFL CD
- MUST BE a portion of one and only one POLYGON

* = Relationships in primary unique identifier.

Unique Identifiers:

RSLT1	Primary	Y
RESULTANT SKEY		

Notes:

<< 1998-03-26-17:13 sourced from:236464:392913 >>

Entity Name: GPS FILE			Short Name:	GF
Plural:	GPS FILES			
Init. Volume:	10	Avg. Volume:	20	Max. Volume: 100
			Annual Growth Rate:	1%

Description:

An digital file in which Global Positioning System data is stored. The file is collected with a GPS reciever and is captured in a raw (uncorrected) state. Subsequent modification is usually applied to correct coordinates of the point feature.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* GPS FILE SKEY	SKEY 7	N	NUMBER	7,0
BASE STATION NAME		Y	VARCHAR2	10
The name of the GPS base station that provides the data for the differential correction of the coordinates.				
<< 1998-03-26-15:44 sourced from:7003:235060 >>				
FIX STD DEVIATION		Y	NUMBER	6,2
The standard deviation of the 'fixes' of the GPS measurements. This provides a measure of quality of the GPS measurement.				
<< 1998-03-26-15:44 sourced from:7003:235059 >>				
FIX NUM		Y	NUMBER	3,0
The number of GPS measurements from individual satellites over the duration of GPS measurement.				
Known as 'fixes'.				
<< 1998-03-26-15:44 sourced from:7003:235058 >>				
TO POINT OFFSET BRG	AZIMUTH BRG	Y	NUMBER	3,0
Where the GPS measurements cannot be taken at the point feature, the measurements are taken at an alternative point (offset).				

Entity Name: GPS FILE (cont'd)

Short Name:

GF

The bearing is taken from GPS location to the point feature.

<< 1998-03-26-15:44 sourced from:7003:235057 >>

TO POINT OFFSET HOR DIST

GPS OFFSET DISTANCE

Y NUMBER

3,1

Where the GPS measurements cannot be taken at the

point feature, the measurements are taken at an

alternative point (offset).

The horizontal distance between the GPS measurement

offset and the POINT FEATURE.

<< 1998-03-26-15:44 sourced from:7003:235053 >>

FILE TYPE CD

GPS FILE TYPE

N VARCHAR2

5

The type of file which contains the GPS coordinates.

There is usually a sequence of raw coordinates collected
in the field, followed by their differential correction. Optionally
the corrected coordinates could be modified for expected improvements
of precision.

Source! The file type will come from the file extension

as per the convention of the Vegetation Inventory

Sample data collection practice.

<< 1998-03-26-15:44 sourced from:7003:235024 >>

FILE NAME

N VARCHAR2

10

The name of the GPS source file. The convention of the file name is
follows:

pos. 1 crew identifier

pos. 2-3 month of data capture

Entity Name:	GPS FILE (cont'd)	Short Name:	GF
---------------------	-------------------	-------------	----

- pos. 4-5 day of data capture
- pos. 6-7 hour of data capture
- pos. 8 file identifier

The extension of the file name is used to also designate raw or corrected data; modified data is not identified by extension name.

The extension is not stored in FILE NAME; it is stored as a FILE TYPE

<< 1998-03-26-15:44 sourced from:7003:235030 >>

DATA FILE

N IMAGE

The file as generated by GPS data capture or subsequent processing.

<< 1998-03-26-15:44 sourced from:7003:235031 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE collected at one and only one POINT LOCATION VISITATION
MAY BE collecting positional data for one or more COORDINATE SETS
* = Relationships in primary unique identifier.

Unique Identifiers:

GF1

Primary Y

GPS FILE SKEY

Notes:

<< 1998-03-26-15:44 sourced from:7003:235018 >>

Data Administration
Entity Definition Report

Entity Name: GRAPHICS FILE VERSION				<i>Short Name:</i>	GRFV
<i>Plural:</i>	GRAPHICS FILE VERSIONS				
<i>Init. Volume:</i>	7000	<i>Avg. Volume:</i>	20000	<i>Max. Volume:</i>	40000
				<i>Annual Growth Rate:</i>	20%

Description:

The electronic file of the graphic data (e.g. neatlines, polygon boundaries etc.) of a 6' x 12' BCGS mapsheet. Typically these are stored in IGDS (Intergraph Design File) format.

It should be noted that a graphics file will (often) contain the full complement of levels (themes) even though there is no intrinsic collected data about that theme. That is, the default is the creation of a level, even though there is no business data to staisfy the various downstream data processing activities. Hence the occurence of a Default Value (Theme Version.Default Value Presence Ind) is intended to signify the occurence, though it may not represent the entire level being set to a default value.

Sucessive versions will be released upon update to the data covered in the geographic extent of the mapsheet (either graphically or attributively).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* GRAPHICS FILE SKEY		N	NUMBER	7,0
The surrogate identifier of the graphics file version.				
System generated UID from an Oracle sequence number, GRAPH FILE SEQ.				
<< 1998-03-25-16:59 sourced from:416792:432454 >>				
DISK FARM CREATE DATE		Y	DATE	
The date the file was created on the disk farm which may be different				

Entity Name:	GRAPHICS FILE VERSION (cont'd)	Short Name:	GRFV
---------------------	--------------------------------	--------------------	------

from either the Release Date and the Serial Num Date.

<< 1998-03-25-16:59 sourced from:416792:444971 >>

SERIAL NUM DATEY DATE

The date simultaneously assigned to a graphics file and its associated text file for the purpose of uniquely identifying a version. In this entity, it is sourced from a graphics file (FC1).

This attribute is one of three components of the compound business key, file 'Serial Number'. The three components in their commonly used order are:

Mapsheet Id (BCGS 6x12 MAPSHEET ID)

SERIAL NUM DATE

SERIAL VERSION NUM.

The SERIAL NUM DATE is assigned at the time of creation of the 'resultants', (forest cover polygons bisected by multiple themes in the '.EDI file) and their integration with the text file. Assignment is made by a controlled process on a secure, multiuser system, and therefore, the date retains integrity unlike those sourced from the stand-alone PC systems.

Also known as GRAPHICS CREATION DATE in the FIP file, though a misnomer.

It is planned that this be retrieved from the title block of the electronic mapsheet and be compared to the 'REFERENCE YEAR' in the FIP

Entity Name:	GRAPHICS FILE VERSION (cont'd)	<i>Short Name:</i>	GRFV
---------------------	--------------------------------	--------------------	------

text file. The expectation is that these two dates be the same or close, and if not, it will be supplied by parsing part of the Serial Num.

<< 1998-03-25-16:59 sourced from:416792:420143 >>

SERIAL VERSION NUM	N	NUMBER	4,0
--------------------	---	--------	-----

The number simutaneously assigned to a graphics file and its associated text file for the purpose of uniquely identifying a version.

This attribute is one of three components of the compound business key, file 'Serial Number'. The three components in their commonly used order are:

- Mapsheet Id (BCGS 6x12 MAPSHEET ID)
- SERIAL NUM DATE
- SERIAL VERSION NUM.

The SERIAL VERSION NUM is assigned at the time of creation of the 'resultants', (forest cover polygons bisected by multiple themes in the '.EDI file) and their integration with the text file.

It should be noted that despite the intention of this attribute contributing to the business key identifier, SERIAL VERSION NUM appears to be of limited usefulness. Firstly, the Mapsheet Id and the SERIAL NUM DATE (above) provide all the unique identification required, and secondly, the Object Distribution Management system (ODM) creates a version number based on checking in/out for data maintenance that is independently assigned. This confusion, borne of

Data Administration
Entity Definition Report

Entity Name:	GRAPHICS FILE VERSION (cont'd)	Short Name:	GRFV
---------------------	--------------------------------	--------------------	------

a disconnected activities, causes loss of integrity for business use.

No other business meaning such as release, revision date,

processing date is inferred.

<< 1998-03-25-16:59 sourced from:416792:420137 >>

ODM OBJECT STATE	CD	ODM OBJECT STATE	N	VARCHAR2	3
------------------	----	------------------	---	----------	---

The status of the electronic file with respect to update and revision

as supplied from the Object Distribution Management system.

<< 1998-03-25-16:59 sourced from:416792:421312 >>

LEVEL 62 NAD DATUM YR	CHAR 4	Y	VARCHAR2	4
-----------------------	--------	---	----------	---

The year in which the version of the North American Datum was

released as sourced from the neatline level, #62, of the mapsheet.

Any value is permitted, which will be validated against a rule.

<< 1998-03-25-16:59 sourced from:416792:447619 >>

TITLE BLOCK NAD DATUM YR	CHAR 4	Y	VARCHAR2	4
--------------------------	--------	---	----------	---

The year in which the version of the North American Datum was

released sourced from the title block of the mapsheet.

Any value is permitted, which will be validated against a rule.

<< 1998-03-25-16:59 sourced from:416792:420138 >>

TITLE BLOCK UTM ZONE		Y	VARCHAR2	2
----------------------	--	---	----------	---

A longitudinal grid zone, representing 6 degrees of the earth's

coverage, which a 6 x12 minute mapsheet falls within as sourced from

the title block of the graphics file version.

The UTM zone serves to provide bounds on the earth's surface which is

Entity Name:	GRAPHICS FILE VERSION (cont'd)	Short Name:	GRFV
---------------------	--------------------------------	--------------------	------

projected to a flat surface for mapping.

Any value is permitted, which will be validated against a rule.

<< 1998-03-25-16:59 sourced from:416792:447620 >>

NON TFL AND NON TSA COVERAGE PCT	PERCENTAGE 100	Y	NUMBER	3,0
-------------------------------------	----------------	---	--------	-----

The coverage of non-Timber Supply Area and non Tree Farm Licence area in a graphics file. This represents a summary of a number of Themes (levels) and cannot be directly attributed to a individual themes.

Examples of areas that would be included are; Alberta, saltwater (sometimes it is thought), and excluded tenures.

<< 1998-03-25-16:59 sourced from:416792:492445 >>

NAD TRANSFORMATION METHOD CD	NAD TRANSFORMATION METHOD	Y	VARCHAR2	5
------------------------------	------------------------------	---	----------	---

The method by which the mapsheet is transformed from the 1927 North American Datum (NAD) to the to the 1983 NAD. (No other datums are known at this time).

Known examples of transformation methods are: monorestitution and the National (Canadian) Transformation algorithm.

<< 1998-03-25-16:59 sourced from:416792:420139 >>

MAPSHEET AREA	6 X 12 MAX MAP AREA	Y	NUMBER	8,3
---------------	---------------------	---	--------	-----

The derived area, in hectares, of the mapsheet. This may change by version of mapsheet to accomodate a new datum in a later version.

<< 1998-03-25-16:59 sourced from:416792:420140 >>

FORMAT TYPE	GRAPHICS FILE FORMAT TYPE	Y	VARCHAR2	5
-------------	------------------------------	---	----------	---

The format of the graphics file as stored. The only known format is

Data Administration
Entity Definition Report

Entity Name:	GRAPHICS FILE VERSION (cont'd)	Short Name:	GRFV
---------------------	--------------------------------	--------------------	------

the FC1 file, though other software is in use that creates different formats.

<< 1998-03-25-16:59 sourced from:416792:420141 >>

CREATE DATE	N	DATE
<< 1998-03-25-16:59 sourced from:416792:492775 >>		

MODIFY DATE	Y	DATE
<< 1998-03-25-16:59 sourced from:416792:492776 >>		

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492777 >>				

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492778 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a member of one or more GRAPHICS TEXT FILE PAIRS
- MAY BE a member of one or more MAP UPDATE ACTIVITIES
- MAY BE commented by one or more QUALITY ASSURANCE ASSNS
- MAY BE containing graphic data for one or more THEME VERSIONS
- MAY BE subject to one or more ROLE ASSOCIATIONS
- MAY BE the object of one or more DATA RECONCILLIATION ERRORS
- MUST BE representing data for one and only one MAPSHEET COMPONENT

* = Relationships in primary unique identifier.

Unique Identifiers:

GRFV2	Primary	N
MUST BE representing data for one and only one MAPSHEET COMPONENT		
SERIAL VERSION NUM		
SERIAL NUM DATE		
GRFV1	Primary	Y
GRAPHICS FILE SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:418206 >>

Entity Name: GRAPHICS TEXT FILE PAIR				<i>Short Name:</i>	GTP
<i>Plural:</i>	GRAPHICS TEXT FILE PAIRS				
<i>Init. Volume:</i>	7000	<i>Avg. Volume:</i>	20000	<i>Max. Volume:</i>	40000
				<i>Annual Growth Rate:</i>	20%

Description:

The association of an electronic mapsheet graphics file version and a central text data file that contains the descriptive information (e.g. forest cover in the form of the FIP file). Pairing is explicitly made by the respective 'Serial Numbers' of each member.

(The serial number being a compound key made of the Serial Num Date and the Serial Version Num.

As graphics files and text (FIP) files are processed, the pairing takes place as the last activity before release by way of ODM. There is no inherent business attribution known.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CREATE DATE		N	DATE	
<< 1998-03-25-16:59 sourced from:416792:492779 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-25-16:59 sourced from:416792:492780 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492781 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492782 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE commented by one or more QUALITY ASSURANCE ASSNS
MAY BE the object of one or more DATA RECONCILLIATION ERRORS

Entity Name:	GRAPHICS TEXT FILE PAIR (cont'd)	<i>Short Name:</i>	GTP
---------------------	----------------------------------	--------------------	-----

- * MUST BE comprised of one and only one GRAPHICS FILE VERSION
- * MUST BE comprised of one and only one TEXT FILE VERSION
- * = Relationships in primary unique identifier.

Unique Identifiers:

GTP1	Primary	Y
MUST BE comprised of one and only one GRAPHICS FILE VERSION		
MUST BE comprised of one and only one TEXT FILE VERSION		

Notes:

<< 1998-03-25-16:59 sourced from:416792:418260 >>

Entity Name: GROUP TAXONOMIC MEMBERSHIP				<i>Short Name:</i>	GTO
<i>Plural:</i>	GROUP TAXON MEMBERSHIPS				
<i>Init. Volume:</i>	1500	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	2500
				<i>Annual Growth Rate:</i>	1%

Description:

The period for which the group of species is defined. The same group may include different tree species over time.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* GROUP TAXON SKEY	SKEY 7	N	NUMBER	7,0
LONG CD		Y	VARCHAR2	8
The long code which identifies the combination of the species group and the point in the taxonomic hierarchy.				
This attribute is created to support codes that the group is known, but the point in the taxonomic hierarchy is only known at a level to be too general. For eample: an unknown Herb and an Unknown shrub both exist at the same level in the taxonomic hierarchy as seeded plants but have different groups.				
Since the business has a tendency to work in culturally defined groups (Trees, Shrubs, Herbs, ...), this attribute provides the facility to be specific on a cultural group (eg Shrub) while remaining general on the point int he taxonomic hierarchy (something with seeds).				
SHORT CD		Y	VARCHAR2	4
The shortcode which identifies the combination of the species group and different points in the taxonomic hierarchy.				

Entity Name: GROUP TAXONOMIC MEMBERSHIP (cont'd)

Short Name: GTO

This attribute is created to support codes that the group is known, but the point in the taxonomic hierarchy is only known at a level to be too general. For example: an unknown Tree and an Unknown Shrub both exist at the same level in the taxonomic hierarchy as seeded plants but have different groups.

Since the business has a tendency to work in culturally defined groups (Trees, Shrubs, Herbs, ...), this attribute provides the facility to be specific on a cultural group (eg Shrub) while remaining general on the point in the taxonomic hierarchy (something with seeds).

Since short codes are currently used exclusively for trees, this attribute is used to provide Tree codes at varying points in the Taxonomic Hierarchy. For example Xc, representing a plant belonging to the group TREE at the taxonomic Class Coniferea (i.e. an unknown Coniferous tree).

SEQUENCE ORDER

Y

NUMBER

4,0

The order of the species within a group. This was added to accommodate the inclusion of the Inventory Type Group where there is an explicit order to the tree species. For example, the Inventory Type Group, number 2, Fir Hemlock, infers an order that the Douglas-Fir must occur first (i.e. is predominant).

<< 1998-03-26-17:14 sourced from:236464:776569 >>

MINIMUM PCT

PERCENTAGE 100

Y

NUMBER

3,0

Entity Name: GROUP TAXONOMIC MEMBERSHIP (cont'd)

Short Name:

GTO

The minimum percentage of coverage, volume etc. that a species must have to define a group.

This was added to accomodate the inclusion of the Inventory Type Group characteristics. For example, Inventory Type Group 1, must be 80% Douglas Fir.

<< 1998-03-26-17:15 sourced from:236464:776570 >>

EFFECTIVE DATE

Y DATE

The inclusive date after which the taxonomy or species can be considered a member in the group. This attribute facilitates the transition of the movement from one species group to another over time.

The classic example is the continuing debate over whether a Willow is considered a Tree or a Shrub i.e. is a member in the culturally defined group TREE or curturally defined group SHRUB. For VRI Ground Sampling 97, it was considered a Tree; for 98 it is to be considered a Shrub.

Further anticipated uses are: species move from report groups as species requirements become more granular over time; log grade groups are broken down further or imalgimated for a particular year but with the requirement to support the old years data as well; etc.

A null value indicates no minimum date restriction for use in the group membership.

EXPIRY DATE

Y DATE

Entity Name:	GROUP TAXONOMIC MEMBERSHIP (cont'd)	Short Name:	GTO
---------------------	-------------------------------------	--------------------	-----

The inclusive date before which the taxonomy or species can be considered a member in the group. This attribute facilitates the transition of the movement from one species group to another over time.

The classic example is the continuing debate over whether a Willow is considered a Tree or a Shrub i.e. is a member in the culturally defined group TREE or culturally defined group SHRUB. For VRI Ground Sampling 97, it was considered a Tree; for 98 it is to be considered a Shrub.

Further anticipated uses are: species move from report groups as species requirements become more granular over time; log grade groups are broken down further or imalgimated for a particular year but with the requirement to support the old years data as well; etc.

A null value indicates no maximum date restriction for use in the group membership.

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

- MAY BE associated with one or more INV_TYPE_GROUP_SPECIES_COMPOSITION
 - MAY BE botanically identified by one and only one TAXONOMIC NAME
 - MAY BE botanically identifying one or more LAYER SPECIES COMPOSITIONS
 - MAY BE botanically identifying one or more PLANTATION TREE SPP COMPS
 - MAY BE botanically identifying one or more TREES
 - MAY BE botanically identifying one or more NON TREE ELEMENT ASSMTS
 - MAY BE botanically identifying one or more TREE LAYER SPP COMPS
 - MAY BE defining one or more BUSINESS OBJECT VALUE BOUNDS
 - MUST BE botanically identifying one or more DBH HT SPP FIZ CODES
 - MUST BE culturally identified by one and only one SPECIES GROUP DEFINITION
- * = Relationships in primary unique identifier.*

Entity Name:	GROUP TAXONOMIC MEMBERSHIP (cont'd)	<i>Short Name:</i>	GTO
---------------------	-------------------------------------	--------------------	-----

Unique Identifiers:

GTO2	Primary	N
MUST BE culturally identified by one and only one SPECIES GROUP DEFINITION		
MAY BE botanically identified by one and only one TAXONOMIC NAME		
LONG CD		
GTO1	Primary	Y
GROUP TAXON SKEY		

Notes:

<< 1998-03-26-17:14 sourced from:236464:325491 >>

Data Administration
Entity Definition Report

Entity Name: HEIGHT ASSESSMENT				<i>Short Name:</i>	HTASM
<i>Plural:</i>	HT ASSMTS				
<i>Init. Volume:</i>	60000	<i>Avg. Volume:</i>	300000	<i>Max. Volume:</i>	600000
				<i>Annual Growth Rate:</i>	5%

Description:

Measurement, estimations and derivations of tree height. In the field a sub-sample of trees are selected for measurement and are generally used for two purposes:

- to derive a height-diameter coefficient set for the common species of the sample unit; and
- to provide a statistical estimate of the mean of the main component of the layer.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
ASSMT QUAL CD	HT QUALIFIER	N	VARCHAR2	10
A qualifier of the collection method and respective precision of the tree height data.				

<< 1998-03-27-13:10 sourced from:346868:583678 >>

CREATE DATE	N	DATE
<< 1998-03-27-13:10 sourced from:346868:583682 >>		

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-27-13:10 sourced from:346868:583681 >>				

HEIGHT	N	NUMBER	4,2
The total tree height, in metres, as measured, estimated, or derived.			

A! Can be measured, estimated or fitted.

Estimated: HH: if TM_HEIGHT & DIAM1_3 >= 2.0

SEF: if CT4:30-32 & CT4:33 = "E"

Measured: HH: if TM_HEIGHT & DIAM1_3 is BLANK

SEF: use CT4:33 HEIGHT SOURCE

<< 1998-03-27-13:10 sourced from:346868:583673 >>

Entity Name: HEIGHT ASSESSMENT (cont'd)

Short Name: HTASM

* HT ASSMT SKEY

SKEY 7

N NUMBER

7,0

<< 1998-03-27-13:10 sourced from:346868:583685 >>

MODIFY DATE

Y DATE

<< 1998-03-27-13:10 sourced from:346868:583684 >>

MODIFY USER ID

ORACLE USER

Y VARCHAR2

30

<< 1998-03-27-13:10 sourced from:346868:583683 >>

POSITION CD

TREE HEIGHT FEATURE

N VARCHAR2

3

The position on the tree the height is measured to (from the tree's germination point).

<< 1998-03-27-13:10 sourced from:346868:583680 >>

REPRES IND

INDICATOR DEFAULT Y

N VARCHAR2

1

An indicator to denote if the TOTAL TREE HEIGHT is representative of the tree population of the sample or experimental unit. Tree heights that are not representative will not be included in the derivation of the height-diameter regression for the species of the sample.

Representative heights can be either determined in the field where no discretion of collection is allowed, or more commonly post data processing where a height may be chosen to be excluded.

SEF_C Default = "Y"

A? Review CT5:33 Height/Diameter

<< 1998-03-27-13:10 sourced from:346868:583674 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE collected by one or more AUGMENTED ASSESSMENT ACTIVITIES

MUST BE recorded for one and only one TREE MEASUREMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

HTASM1

Primary Y

HT ASSMT SKEY

Data Administration
Entity Definition Report

Entity Name:	HEIGHT ASSESSMENT (cont'd)	Short Name:	HTASM
---------------------	----------------------------	--------------------	-------

Notes:

03 sep 97 JRT

- this entity was copied from HT ASSMT and modified.

<< 1998-03-27-13:10 sourced from:346868:583672 >>

Entity Name:	HEIGHT CLASS	Short Name:	HC
Plural:	HEIGHT CLASSES		
Init. Volume:	20	Avg. Volume:	40
		Max. Volume:	100
		Annual Growth Rate:	

Description:

The standard Resouce Inventory Branch height class code and the bounds for its determination. It is expected that this would be the rule table from which a height class is derived, as it is proposed that Tree Layer specific age class data will not be stored.

As analysed, this is a stand-alone rule table and has no relationships.

Populate the values from the FIP Dictionary, p 3-102.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* HEIGHT CLASS SKEY	SKEY 7	N	NUMBER	7,0
The surrogate identifier of a Height Class.				
<< 1998-03-26-17:15 sourced from:236464:508536 >>				
HEIGHT CLASS CD	FIP HEIGHT CLASS	N	NUMBER	2
Th business assigned code for a height range.				
<< 1998-03-26-17:15 sourced from:236464:508537 >>				
MIN HEIGHT BND	TREE HEIGHT 3 1	N	NUMBER	3,1
The minimum bound of the height class.				
<< 1998-03-26-17:15 sourced from:236464:508538 >>				
MAX HEIGHT BND	TREE HEIGHT 3 1	Y	NUMBER	3,1
The maximum bound of the height class.				
<< 1998-03-26-17:15 sourced from:236464:508539 >>				
* = Attributes in primary unique identifier.				

Unique Identifiers:

HC1	Primary	Y
HEIGHT CLASS SKEY		

Entity Name:	HEIGHT CLASS (cont'd)	Short Name:	HC
---------------------	-----------------------	--------------------	----

Notes:

<< 1998-03-26-17:15 sourced from:236464:508530 >>

Data Administration
Entity Definition Report

Entity Name: HT STATISTICAL ESTIMATE			Short Name:	HTSTE
Plural:	HT STATISTICAL ESTIMATES			
Init. Volume:	115640	Avg. Volume:	120000	Max. Volume: 165000
			Annual Growth Rate:	5%

Description:

Statistical estimates of TREE height like minimum, maximum, mean, variance to characterize LAYER SPECIES COMPOSITION based on a HT SELECTION METHOD.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
-------------	---------------	------------	---------------	---------------

DATE OF CALC		N	DATE	
--------------	--	---	------	--

The date on which the height was calculated.

<< 1998-03-27-12:46 sourced from:346868:347024 >>

HT MID POINT IND	INDICATOR	Y	VARCHAR2	1
------------------	-----------	---	----------	---

An indicator to denote that the average height that characterize the sample are based on class mid points rather than the statistical summary of the individual trees. This is applicable to the now remeasured Inventory standard temporary inventory samples (TSP's) where the aggregation of trees by age and height class was a common processing technique.

SEF_S CT1:66 AGE HEIGHT MIDPT

SEF_C Blank = 'N', 'M' = 'Y'

A! Not on HH; default = 'N'

<< 1998-03-27-12:46 sourced from:346868:347111 >>

HT POPLTN CD	HT ESTIMATE POPLTN	N	VARCHAR2	5
--------------	--------------------	---	----------	---

The group (sub-population) and relative preference of tree heights in the sample or experiment plot used in the derivation of mean height (STAT MEAN). This represents both field collection standards and post-processing activites. Examples of tree height subpopulations for calculation of mean height are:

- field collected heights only,

Entity Name:	HT STATISTICAL ESTIMATE (cont'd)	Short Name:	HTSTE
---------------------	----------------------------------	--------------------	-------

- both field collected heights and fitted heights; where a field collected height is accorded preference if both exist on the same tree,
- fitted heights only.

Also note that the sub-population of tree heights is also subject to a method of selection (HT SELECTION METHOD). Typically all field collected (or fitted) tree heights are not used in the calcuation of the mean height. The purpose of deriving mean height, as it is currently practised, is to characterize the main canopy, (usually larger) trees. Therefore, suppressed and intermediate canopy level tree heights, collected for the purpose of obtaining a less variable height-diameter curve fitting, would be excluded in the calculation of mean height as applied by the HT SELECTION METHOD.

<< 1998-03-27-12:46 sourced from:346868:347303 >>

* HT STATISTICAL SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-12:46 sourced from:346868:347378 >>				

STAT MAX	TREE HEIGHT 4 2	Y	NUMBER	4,2
The maximum height of the selected trees to characterize a layer and species.				

<< 1998-03-27-12:46 sourced from:346868:347021 >>

STAT MEAN	TREE HEIGHT 4 2	N	NUMBER	4,2
The average tree height used to characterize the species and the layer to which it belongs.				

<< 1998-03-27-12:46 sourced from:346868:347022 >>

STAT MIN	TREE HEIGHT 4 2	Y	NUMBER	4,2
The minimum height of the selected trees to characterize a layer and				

Data Administration
Entity Definition Report

Entity Name:	HT STATISTICAL ESTIMATE (cont'd)	Short Name:	HTSTE
---------------------	----------------------------------	--------------------	-------

species.

<< 1998-03-27-12:46 sourced from:346868:347020 >>

STAT VARIANCE	Y	NUMBER	6,4
The variance of tree heights for representative selected trees to			
characterize the layer and species.			

<< 1998-03-27-12:46 sourced from:346868:347023 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE derived from the aggregation by one and only one SELECTION METHOD
MUST BE describing one and only one LAYER SPECIES COMPOSITION
* = Relationships in primary unique identifier.

Unique Identifiers:

HTSTE1	Primary	Y
HT STATISTICAL SKEY		

Notes:

<< 1998-03-27-12:46 sourced from:346868:347019 >>

Entity Name: INDIVIDUAL TREE				<i>Short Name:</i>	IND
<i>Plural:</i>	IND TREES				
<i>Init. Volume:</i>	5760000	<i>Avg. Volume:</i>	8000000	<i>Max. Volume:</i>	10000000
<i>Annual Growth Rate:</i>	5%				
<i>Subtype of:</i>	TREE				

Description:

A tall woody perennial plant usually with a single elongated stem and having a crown of branches and foliage. The tree in the context of forest mensuration is further defined by belonging to a sample or experimental unit (and accordingly is individually numbered) and whose species is identified in the MOF codelist table.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
FIELD MEASMT SEQ NUM	NUM 8	Y	NUMBER	8,0

A number which identifies the sequence of convenient remeasurement in the field. Initially, this value is equal to the tree number as it is assumed that the trees are tagged in the optimum order (by section usually) for remeasurement. The order is adjusted when trees are missed or ingrowth occurs. The order is modified by input from the electronic hand-held data collector. If trees are not required for the next measurement, the sequence number is dropped.

A! will replace NEAR TREE NUM in a later data maintenance initiative

HH93_S TREE_TR_SEQ_NO

SEF_S CT4,5,6,9:19-22 TREE ID

A? Default is TREE_ID; require load algorithm to aply value of

Near Tree No. (CT:67-70)

<< 1998-03-27-10:18 sourced from:346868:346766 >>

Entity Name: INDIVIDUAL TREE (cont'd)

Short Name: IND

The number of the nearest tree that was originally present when the sample or experimental plot was established. This is to facilitate finding the tree in the field when its identifying number is out of sequence with the proximate trees. On establishment, the tree number also represents the convenient order in which the trees are measured in the field. Additions of new trees in later measurements, often not using the same number sequence, means that the convenient sequence must be known for the field crew of the next measurement.

At on later data maintenance initiatives, this attribute will be converted to a value in MEASMT SEQ ID. C Wong wrote up the analysis/algorithm in either GYD, Ver. 1 or DERIVED.

<< 1998-03-27-10:18 sourced from:346868:347140 >>

ORIGIN CD TREE ORIGIN Y VARCHAR2 1

Indicates whether the tree germinated naturally or was planted. This attribute was introduced for Inventory Branch Silviculturally treated samples (sample type 'T') and is not collected for any other sampling program.

HH93_S TREE_TR_NAT

HH93_C Blank to null

SEF_S CT4:66 NAT/PLANTED

SEF_C Blank to null

At Change (or affirm) default='N' (natural regeneration), other valid values='P' (planted); delete 'U' as valid values

<< 1998-03-27-10:18 sourced from:346868:346769 >>

PRUNING TREAT IND INDICATOR DEFAULT N Y VARCHAR2 1

An indicator to denote if a pruning treatment has been applied.

Entity Name:

INDIVIDUAL TREE (cont'd)

Short Name:

IND

The associated pruning data for this tree is included with the
experiment files currently on paper.

<< 1998-03-27-10:18 sourced from:346868:346770 >>

REF TREE BRG TO PLOT CTR

AZIMUTH BRG

Y

NUMBER

3,0

The azimuth bearing from the tree to plot center. For the puposes of
relocating plot center at a later visitation.

REF TREE HOR DIST TO PLOT CTR

DISTANCE METRE

Y

NUMBER

5,2

The horizontal distance from the tree to plot center. Collected for
the puposes of relocating plot center at a later visitation.

REF TREE LAST DIAMETER

Y

NUMBER

4,1

The most recent diameter taken for re-identification purposes to
assist in relocating a POINT LOCATION. This diameter is not
intended to capture sampling data, but is instead the most recent
diameter, probably roughly measured and at an unspecified height, on a
reference tree.

It is expected that this diameter will be replaced at each succeeding
re-measurement, if the tree is sucessfully re-located.

REF TREE SLOPE

PERCENTAGE 100

Y

NUMBER

3,0

The slope distance from the tree to plot center. Collected for
the puposes of relocating plot center at a later visitation.

REF TREE SLOPE DIST TO PLOT CTR

DISTANCE METRE

Y

NUMBER

5,2

The slope distance from the tree to plot center. Collected for
the puposes of relocating plot center at a later visitation.

SECTOR NUM

PLOT SECTOR

Y

NUMBER

2,0

A physical subdivision of the cluster element (plot) in which the tree
resides. Sections are usually equal-sized subdivisions of a plot,
defined to assist field crews in relocating the tree for remeasurement

Entity Name: INDIVIDUAL TREE (cont'd)

Short Name:

IND

<< 1998-03-27-10:18 sourced from:346868:346765 >>

Allowable Values of Attribute

1 thru 16

TREE NUM	NUM 6	Y	NUMBER	6
----------	-------	---	--------	---

The identifying number of the tree as assigned in the field, and for p
ermanent sample plots, it is embossed on an identifying tag affixed to
the tree. Inventory Branch has uniquely identified the tree for each
cluster location (plot).

For 'Aggregate' Trees, this is generated at load time to facilitate
retrieval and later processing. Obviously, there can be no physical
identification of an aggregation.

HH93_S TREE_TR_TREE_NO

SEF_S CT4,5,6,9:19-22 TREE NO

16 JUL 97 JRT

- changed the optionality of TREE NUM to optional to support Aggregate trees which do not have a tree num identifier. A trigger rule needs to be created that checks optionality of this field based on tree type -
- if type 'INDIVIDUAL' then tree num is required.
- if type 'AGGREGATE' then tree num is optional.

<< 1998-03-27-10:18 sourced from:346868:346764 >>

X COORD	TREE COORD	Y	NUMBER	7,4
---------	------------	---	--------	-----

The stem map X coordinate of the tree location in the cluster location

HH93_C Convert TREE_TR_BEAR, ...DIST, ...SLOPE & TREE_TR_TR1...DIST,

Entity Name:	INDIVIDUAL TREE (cont'd)	Short Name:	IND
---------------------	--------------------------	-------------	-----

...TR2_NO to x, y coords.

SEF_S CT6:58-61 X-COORDINATE

SEF_C Based on CT6:26-28 BRG IN DEGREE and CT6:36-39 HORI. DISTANCE

A! LDM rationalization requires utility to convert offset polar

and triangular coords (not in LDM) to Cartesian coords;

plot centre to be (0,0). For initial load, take coords as

they are. NB. approx. 100 samples are stem-mapped in database

<< 1998-03-27-10:18 sourced from:346868:346767 >>

Y COORD	TREE COORD	Y NUMBER	7,4
The stem map Y coordinate of the tree location in the cluster location			

SEF_S CT6:62-65 Y-COORDINATE

A> Same as for TREE_X_COORD

<< 1998-03-27-10:18 sourced from:346868:346768 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE assessed by one or more CLUSTER ELMT MEASMTS
* = Relationships in primary unique identifier.

Notes:

<< 1998-03-27-10:18 sourced from:346868:346763 >>

Entity Name: INSTALLATION				<i>Short Name:</i>	INSTN
<i>Plural:</i>	INSTALLATIONS				
<i>Init. Volume:</i>	200	<i>Avg. Volume:</i>	1000	<i>Max. Volume:</i>	2000
				<i>Annual Growth Rate:</i>	5%

Description:

A group of experimental units (plots), belonging to the implementation of an experiment. The plots are usually placed in close geographic proximity within a stand.

Attributes:					
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	
CMT	DESC 256	Y	VARCHAR2	256	Any textual comments for which no specific data standard has been defined for the installation.
<< 1998-03-25-16:02 sourced from:346868:347012 >>					
INSTN ID	INSTALLATION ID	N	VARCHAR2	3	The business identifier for an installation,
<< 1998-03-25-16:02 sourced from:346868:347013 >>					
* INSTN SKEY	SKEY 7	N	NUMBER	7,0	The surrogate identifier for an installation.
<< 1998-03-25-16:02 sourced from:346868:347014 >>					
MEASMT STATUS CD	MEASMT STATUS	N	VARCHAR2	3	The status with respect to whether a plot, sample, or grouping of them in a project, subproject or installation, will be considered for further measurements.
<< 1998-03-25-16:02 sourced from:346868:347131 >>					
NAME	DESC 25	Y	VARCHAR2	25	The name, usually geographic in nature, commonly used to refer to the installation.
<< 1998-03-25-16:02 sourced from:346868:347015 >>					

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a grouping for one or more PLOT CLUSTERS

Data Administration
Entity Definition Report

Entity Name:	INSTALLATION (cont'd)	<i>Short Name:</i>	INSTN
---------------------	-----------------------	--------------------	-------

* = Relationships in primary unique identifier.

Unique Identifiers:

INSTN1	Primary	Y
INSTN SKEY		

Notes:

<< 1998-03-25-16:02 sourced from:346868:347011 >>

Entity Name: INTERPRETATION				<i>Short Name:</i>	INT
<i>Plural:</i>	INTERPRETATION SUBJECTS				
<i>Init. Volume:</i>	3500	<i>Avg. Volume:</i>	10000	<i>Max. Volume:</i>	15000
				<i>Annual Growth Rate:</i>	20%

Description:

The collected data of the activity of interpretation, usually with the aid of aerial photography, of a land area delineated as a POLYGON.

The following types of interpretations are shown as subtypes;

- TREE LAYERs
- NON VEGETATION
- NON TREE VEGETATION
- Land Cover Components

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* INTERP SKEY	SKEY 7	N	NUMBER	7,0
System generated UID for all subtypes.				

<< 1998-03-26-11:40 sourced from:236464:421327 >>

DATA SOURCE REFERENCE DATE	Y	DATE
The date of the source data on which the interpretation is based.		
Known as the 'Reference Year' in the FIP file.		

<< 1998-03-26-11:40 sourced from:236464:508613 >>

DATA SOURCE CD	INTERPRETATION DATA	Y	NUMBER	2
The source of the data that contributed to the determination of the classification description as per the specifications of the Photo Intrepretation Procedures, Vegetation Inventory.				

All values taken from Table 3-1, PIP

Entity Name: INTERPRETATION (cont'd)

Short Name: INT

This list of values is similar, but not identical to the FIP DATA

SOURCE which will be used to validate the FIP file prior to loading.

Non-conforming FIP DATA SOURCE values will be converted to the
VEGETATION DATA SOURCE values on load to the Vegetative Cover
database.

<< 1998-03-26-11:40 sourced from:236464:507409 >>

CREATE DATEN DATE

The date the interpretation was made.

<< 1998-03-26-11:40 sourced from:236464:569090 >>

CREATE USER IDN VARCHAR230

The system user id of the person that made the interpretation.

<< 1998-03-26-11:40 sourced from:236464:569091 >>

MODIFY DATEY DATE

The date the interpretation was modified.

<< 1998-03-26-11:40 sourced from:236464:569092 >>

MODIFY USER IDY VARCHAR230

The system user id of the person who modified the interpretation.

<< 1998-03-26-11:40 sourced from:236464:569094 >>

INTERPRETATION DATEY DATE

The date when the interpretation was done.

This may be different than the date a FIP file was updated or the
date the computer records were actually processed.

<< 1998-03-26-11:40 sourced from:236464:569165 >>

DATA ENTRY DATEY DATE

The date the interpretation was entered into an off-line electronic

Entity Name:	INTERPRETATION (cont'd)	Short Name:	INT
---------------------	-------------------------	-------------	-----

storage source file. Sourced from the FIP attribute, INPUT DATE of the Polygon record.

This attribute would be redundant if there was on-line access to the Vegetative Cover database, as the audit field, CREATE DATE, would satisfy this requirement.

The current and planned technical architecture allows for entry into an intermediary local subset data file, either FIP or VIF, using the FCAP or replacement data entry tool. The FCAP application inserts a local (client) system date into the INPUT DATE, though the integrity is suspect because the local date can be modified by the user.

<< 1998-03-26-11:40 sourced from:236464:578391 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE be described by one or more BUSINESS OBJECT ASSESSMENTS
MAY BE describes one and only one TREE SUBPOPULATION
MUST BE describing a portion of one and only one POLYGON
* = Relationships in primary unique identifier.

Unique Identifiers:

INT1	Primary	Y
INTERP SKEY		

Notes:

<< 1998-03-26-11:40 sourced from:236464:392874 >>

Subtypes:

ENVIRONMENTALLY SENSITIVE AREA
LAND COVER COMPONENT
NON TREE VEGETATION
NON VEGETATION
TREE LAYER

Entity Name: INTERVAL CLASS			Short Name:	INTCL
Plural:	INTERVAL CLASSES			
Init. Volume:	30	Avg. Volume:	30	Max. Volume: 30
			Annual Growth Rate:	0%

Description:

A discrete range of diameters, heights, site indexes, ages or other tree or stand features that are classified for data aggregation purposes.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* INTERVAL CLASS SKEY	SKEY 7	N	NUMBER	7,0
Identifier used to uniquely identify the Interval Class that the particular interval belongs to.				

This is to uniquely identify the Interval Class to the system. For example, the Imperial DBH Class is DiamClassCd=1, while the Metric DBH Class is DiamClassCd=2, and the Dead Tree Tally - Metric DBH Class is DiamClassCd=3. The 'Class Interval' attribute cannot be used for this purpose since it may not be unique (i.e. a future Diameter Class may have the same Class Interval); in addition, the so-called 'Class Interval` actually varies from interval to interval (within the same Class).

<< 1998-03-27-11:10 sourced from:346868:346941 >>

CLASS ID	N	VARCHAR2	5
The business identifier of the diameter class. This same identifier may be applied to many differing sets of diameter classes.			

<< 1998-03-27-11:10 sourced from:346868:346967 >>

LO BND	NUM 5 2	N	NUMBER	5,2
Lower bound for this interval. Note that there is no units associated				

Entity Name:	INTERVAL CLASS (cont'd)	Short Name:	INTCL
---------------------	-------------------------	--------------------	-------

with this value because the lower bound could be metric or imperial. In addition, the Interval Class may be for a diameter measurement or a height measurement (as indicated by the TREE FEATURE).

<< 1998-03-27-11:10 sourced from:346868:346939 >>

LO BND TREE FEATURE	TREE MEASMT OBJECT	Y	VARCHAR2	2
---------------------	--------------------	---	----------	---

The explicit representation of the tree characteristic to which the class applies. This is to accomodate 'diameter' classes which are based on tree height as a upper or lower class bound, -the only known example is the Growth and Yield so-called 'Metric DBH Classes' which have a height based class id of '0'.

<< 1998-03-27-11:10 sourced from:346868:346972 >>

UP BND	NUM 5 2	N	NUMBER	5,2
--------	---------	---	--------	-----

Upper bound for this interval. Note that there is no units associated with this value because the lower bound could be metric or imperial. In addition, the Interval Class may be for a diameter measurement or as height measurement.

<< 1998-03-27-11:10 sourced from:346868:346940 >>

UP BND TREE FEATURE	TREE MEASMT OBJECT	Y	VARCHAR2	2
---------------------	--------------------	---	----------	---

The tree characteristic to which the upper bound of the class applies. This is to accomodate 'diameter' classes which are based on tree height as a upper or lower class bound, -the only known example is the Growth and Yield so-called 'Metric DBH Classes' which have a height based class id of '0'.

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE classifying one or more FREQUENCY COUNTS
MUST BE belonging to one and only one CLASS INTERVAL GROUP

Data Administration
Entity Definition Report

Entity Name:	INTERVAL CLASS (cont'd)	Short Name:	INTCL
---------------------	-------------------------	--------------------	-------

* = Relationships in primary unique identifier.

Unique Identifiers:

INTCL1	Primary	Y
INTERVAL CLASS SKEY		

Notes:

<< 1998-03-27-11:10 sourced from:346868:346936 >>

Data Administration
Entity Definition Report

Entity Name: INVENTORY PATHOLOGY				Short Name:	INVPT
Plural:	INVENTORY PATHOLOGIES				
Init. Volume:	200000	Avg. Volume:	1000000	Max. Volume:	2000000
				Annual Growth Rate:	5%

Description:

The assessment of tree using a method common to the Inventory Branch pathology. This system of pathological description divides the tree into equal thirds; combinations of thirds of a given pathological defect are assigned a unique code.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
BLIND CONC THIRD CD The code to denote the combination of tree thirds for BLIND CONC.	THIRDS COMBINATION	N	VARCHAR2	1
CONC THIRD CD The code to denote the combination of tree thirds for CONC.	THIRDS COMBINATION	N	VARCHAR2	1
DEAD BRKN TOP THIRD CD The code to denote the combination of tree thirds for DEAD or BROKEN TOPs.	THIRDS COMBINATION	N	VARCHAR2	1
FORK CROOK THIRD CD The code to denote the combination of tree thirds for FORKS AND CROOKS.	THIRDS COMBINATION	N	VARCHAR2	1
FROST CRACK THIRD CD The code to denote the combination of tree thirds for FROST CRACKs.	THIRDS COMBINATION	N	VARCHAR2	1
MISTLETOE THIRD CD The code to denote the combination of tree thirds for MISTLETOE.	THIRDS COMBINATION	N	VARCHAR2	1
ROTTEN BRANCH THIRD CD The code to denote the combination of tree thirds for ROTTEN BRANCHs.	THIRDS COMBINATION	N	VARCHAR2	1
SCAR THIRD CD The code to denote the combination of tree thirds for SCARS.	THIRDS COMBINATION	N	VARCHAR2	1

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

* MUST BE recorded for one and only one TREE MEASUREMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

Data Administration
Entity Definition Report

Entity Name:	INVENTORY PATHOLOGY (cont'd)	<i>Short Name:</i>	INVPT
INVPT1	<i>Primary</i>	Y	
<i>MUST BE recorded for one and only one TREE MEASUREMENT</i>			

Data Administration
Entity Definition Report

Entity Name: INV_TYPE_GROUP_SPECIES_COMPOSITI		<i>Short Name:</i>	ITGSC
<i>Plural:</i>	INV_TYPE_GROUP_SPECIES_COMPOSITION		
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	50
		<i>Max. Volume:</i>	50
		<i>Annual Growth Rate:</i>	

Description:

Relationship between Inventory Type Group Number and Species

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* INVENTORY TYPE GROUP NUMBER		N	NUMBER	3
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE composed of one and only one GROUP TAXONOMIC MEMBERSHIP

* = Relationships in primary unique identifier.

Unique Identifiers:

ITGSC1	Primary	Y
INVENTORY TYPE GROUP NUMBER		

Entity Name: LAND COVER COMPONENT			Short Name:	LCCO
Plural:	LAND COVER COMPONENT INTRPRTNS			
Init. Volume:	1000	Avg. Volume:	5000	Max. Volume: 10000
Annual Growth Rate:	5%			
Subtype of:	INTERPRETATION			

Description:

The interpretation and classification of homogenous portions of a polygon. These portions would be uniquely described if a greater spatial resolution were applied.

Definition Source: p.4-2, PIP

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
LAND COVER OCCURENCE SEQ NUM	LAND COVER COMPONENT SEQ	N	NUMBER	1
The supplied sequence of the Land Cover Classification interpretations. The sequence is generated from the order of the supplied non-blank attributes.				

Definition Source: JH, not a supplied attribute

A_S! generate from supplied order of non blank values on VRI Att.

(entry) Form

<< 1998-03-26-11:41 sourced from:236464:249309 >>

COVER PCT	PERCENTAGE 100 MIN 1	N	NUMBER	3
The estimation of the amount the polygon is occupied by a separable Lanc Cover Component. The sub-division of a polygon by a quantified Land Cover Component allows a higher degree spatial resolution for modelling wildlife habitat capability.				

Generally, sizes under 10% would not be estimated.

Data Administration
Entity Definition Report

Entity Name:	LAND COVER COMPONENT (cont'd)	Short Name:	LCCO
---------------------	-------------------------------	--------------------	------

Definition Source: p. 4-6, PIP

A! rule needed to enure a single polygon adds to 100%

A! need a 'OTHER' category as foriegn key from BC LAND CLASSIFICATION

CD for LEVEL NUM 4 (to handle the col. 36-37 occurence)

A_S! col. 22-24, 28-29, 33-34, 36-37

<< 1998-03-26-11:41 sourced from:236464:249308 >>

SOIL MOISTURE REGIME	HYGROTOPE	Y	VARCHAR2	1
----------------------	-----------	---	----------	---

The average amount of soil water annually available for
evapotranspiration by vascular plants averaged over many years.

Soil Moisture Regime is an intrepretive attribute for estimation of
site potential and site series classification.

Definition Source: p. 4-7, PIP

A! use domain HYGROTOPE when made shareable

A_S! col. 25, 30, 35 of VRI Att. (entry) Form

<< 1998-03-26-11:41 sourced from:236464:249310 >>

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MUST BE recorded for one and only one BC LAND COVER CLASSIFICATION CD

** = Relationships in primary unique identifier.*

Notes:

<< 1998-03-26-11:41 sourced from:236464:243572 >>

Entity Name: LAYER CLASSIFICATION DESCRIPTION				Short Name:	LCD
Plural:	LAYER CLASSFN DESCRIPTIONS				
Init. Volume:	25	Avg. Volume:	25	Max. Volume:	25
				Annual Growth Rate:	

Description:

The criteria and description, and by way of relationship in ROLE ASSOCIATION, the owner of the classification of a vertical stratum of a vegetated land unit.

This entity reflects the several methods of classification within the Resource Inventory Branch, and in addition other practises of layer definitions e.g. Silviculture and Research.

This entity is an abstraction of the typical layer identifier which is used by the business. This entity serves to store the attribute name and value of a layer and was found necessary on account of many varying definitions over time. The retention of the layer definitions in FIP is for historic purposes only; it is intended that all FIP based layer indentifiers be converted to the Vegetative Cover top down sequential number scheme.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* LAYER CLASS SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate idenfier of a Layer Classification Scheme.				
<< 1998-03-26-17:16 sourced from:236464:508250 >>				
EFFECTIVE DATE		N	DATE	
The date the definition of the layer became effective.				

Entity Name:	LAYER CLASSIFICATION DESCRIPTION (cont'd)	Short Name:	LCD
---------------------	---	-------------	-----

For FIP, there are two known effective dates:

1954-01-01

1978-01-01

For VEG, the known effective date is:

1995-01-01

<< 1998-03-26-17:16 sourced from:236464:508252 >>

EXPIRY DATE

Y DATE

The date the definition of the layer expired.

For FIP, there are two known expiry dates:

1978-01-01

1995-01-01

For VEG (Vegetation Inventory) there has been only one definition that remains in effect, hence no stored value.

<< 1998-03-26-17:16 sourced from:236464:508253 >>

BUSINESS IDENTIFIER VALUE

N VARCHAR24

The business assigned permissible identifier of athe interpreted tree

layers within an polygon. This varies according the to the

CLASSIFICATION STANDARD.

Examples for FIP based CLASSIFICATION STANDARD would be:

Entity Name:

LAYER CLASSIFICATION DESCRIPTION (cont'd)

Short Name:

LCD

1, 2, 3, 4, V, VETS, VOLS, SEED, IMMAT

Examples for VEG base CLASSIFICATION STANDARD would be:

1,2,3

<< 1998-03-26-17:16 sourced from:236464:508254 >>

LAYER ATTRIBUTE NAME

N VARCHAR2

25

The business assigned name of the layer attribute: the inclusion of this attribute is to explicitly represent the differing implied meaning of 'Layer'. This attribute can be considered to be a short form of the DESCRIPTION.

This varies according to the data custodian (relationship to ORG UNIT), the type of resource inventory initiative, and the specification at the time.

All known Resource Inventory Branch examples are:

LAYER SEQUENCE NUM, applicable to Vegetation Inventory only, where layers are numbered in sequence from the tallest mean height to lowest

LAYER ID, applicable to the forest inventory standard, as encased by theFIP file

SECONDARY CC LAYER, applicable to the forest inventory, as encased by the FIP file, which included the provision of a layer, though with minimal information, but did not explicitly represent as a layer

Entity Name: LAYER CLASSIFICATION DESCRIPTION (cont'd)

Short Name: LCD

record

SILVICULTURE LAYER, applicable to the forest inventory, as encased
by the FIP file, which exists only to reflect a differing (summarized
and/or generalized) definition of the vegetated land unit.

<< 1998-03-26-17:16 sourced from:236464:508436 >>

DESCRIPTIONY VARCHAR275

The description, or specification text that prescribes the definition
of a layer.

For example, in the case of Vegetation Inventory the distiction is
based on visual differences, whereas 'Vets' for example have a crown
closure maximum, and 'Vols' have a minimum volume per hectare.

<< 1998-03-26-17:16 sourced from:236464:508255 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- MAY BE a member of one and only one LAYER CLASSIFICATION DESCRIPTION
- MAY BE applied to one or more TREE LAYER INTRPRTNS
- MAY BE further decomposed by one or more LAYER CLASSFN DESCRIPTIONS
- MAY BE resolved via one or more FIP LAYER LOAD RULES
- MAY BE stratifying one or more TREE MEASMTS
- MUST BE defined for one and only one DESIGN SPECIFICATION

* = Relationships in primary unique identifier.

Unique Identifiers:

LCD1Primary Y

LAYER CLASS SKEY

Notes:

<< 1998-03-26-17:16 sourced from:236464:508241 >>

Entity Name: LAYER FOREST COVER ASSMT			<i>Short Name:</i>	LFCAS
<i>Plural:</i>	LAYER FOREST COVER ASSMTS			
<i>Init. Volume:</i>	18000	<i>Avg. Volume:</i>	90000	<i>Max. Volume:</i> 180000
			<i>Annual Growth Rate:</i>	5%

Description:

An assessment of the horizontal stratum or layer of trees in a plant community (LAYER FOREST COVER) made at the time of measuring the sample or experimental plot (MEASMT VISITATION).

This currently fits with the Inventory Branch classification scheme of forest stands so to reduce the variability as applied to forest stands.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CREATE DATE		N	DATE	
<< 1998-03-27-12:47 sourced from:346868:347380 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-27-12:47 sourced from:346868:347379 >>				
CROWN CLOSURE AIR	PERCENTAGE 100	Y	NUMBER	3,0
The percentage of ground area covered by the vertically projected tree crown area as estimated from aerial photographs.				
HH93_S SP_MEAS_SM_L1_AIR, ...L2				
SEF_S CT3:68-70 CROWN CLOSURE AIR %				
<< 1998-03-27-12:47 sourced from:346868:346735 >>				
CROWN CLOSURE GROUND	PERCENTAGE 100	Y	NUMBER	3,0
The percentage of ground area covered by the vertically projected tree crown areas as estimated in the field.				

Data Administration
Entity Definition Report

Entity Name:	LAYER FOREST COVER ASSMT (cont'd)	Short Name:	LFCAS
---------------------	-----------------------------------	--------------------	-------

HH93_S SP_MEAS_SM_L1_GRND, ...L2

SEF_S CT3:45-47 CROWN CLOSURE GROOUND %

<< 1998-03-27-12:47 sourced from:346868:346736 >>

* LAYER_F_CVR_SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-12:47 sourced from:346868:347419 >>				

MODIFY DATE	Y	DATE
<< 1998-03-27-12:47 sourced from:346868:347382 >>		

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-03-27-12:47 sourced from:346868:347381 >>				

PRIMARY LAYER IND	INDICATOR DEFAULT N	N	VARCHAR2	1
-------------------	---------------------	---	----------	---

An indicator that deems the marked LAYER to be the most important

from the perspective of the next forest crop.

Y indicates that this is the PRIMARY LAYER

N indicated that this is NOT the PRIMARY LAYER

Only one of the identified layers can be marked as the PRIMARY LAYER.

Sucessor to the use of numerically identifying the PRIMARY LAYER as
done in the source SEF file.

HH93_S SP_MEAS_SM_PRI_LYR

HH93_C Blank to '1'

SEF_S CT1:33 PRIMARY LAYER

SEF_C Blank to '1'

A! For next iteration, change to INDICATOR type (Y/N), mandatory, and
enforce rule that only one of the layers at each measurement is set to

Data Administration
Entity Definition Report

Entity Name:	LAYER FOREST COVER ASSMT (cont'd)	Short Name:	LFCAS
---------------------	-----------------------------------	--------------------	-------

'Y'; (J.H. July 22, 1994)

Above change made by JRT on 25-apr-96

<< 1998-03-27-12:47 sourced from:346868:346734 >>

SPECIAL SITE CLASS CD	SITE CLASS	Y	VARCHAR2	1
A code for the class of stand (or layer) productivity used when the true growing capacity of the stand is masked by external agents or a high degree of variability of heights and ages (typically younger or disturbed stands).				

<< 1998-03-27-12:47 sourced from:346868:347065 >>

SPECIAL SITE INDEX	TREE HEIGHT 4 2	Y	NUMBER	4,2
A quantitative measure of site productivity based on mean age and height. The 'special' prefix applies to stand growing conditions are masked by external agents or by a high degree of variability of heights and ages (typically young or disturbed stands).				

<< 1998-03-27-12:47 sourced from:346868:347066 >>

STEMS PER HA	TREES PER HA	Y	NUMBER	10,4
A field estimate of the number of trees contained in the sample or plot, converted to a unit per hectare basis as retained on the Standard Edit File, CT3 pos. 48:52. This should be replaced by a derived attribute determined for each species in LAYER SPECIES COMPOSITION,				

<< 1998-03-27-12:47 sourced from:346868:347109 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- MAY BE in sequence with one and only one LAYER FOREST COVER ASSMT
- MAY BE master for one or more LAYER FOREST COVER ASSMTS
- MAY BE summarized by one or more LAYER SPECIES COMPOSITIONS

Data Administration
Entity Definition Report

Entity Name:	LAYER FOREST COVER ASSMT (cont'd)	Short Name:	LFCAS
---------------------	-----------------------------------	--------------------	-------

MUST BE reported during one and only one MEASMT VISITATION

* = Relationships in primary unique identifier.

Unique Identifiers:

LFCAS1	Primary	Y
LAYER_F_CVR_SKEY		

Notes:

<< 1998-03-27-12:47 sourced from:346868:346733 >>

Data Administration
Entity Definition Report

Entity Name: LAYER SPECIES COMPOSITION			Short Name:	LYSPC
Plural:	LAYER SPECIES COMPOSITIONS			
Init. Volume:	20000	Avg. Volume:	95000	Max. Volume: 200000
			Annual Growth Rate:	5%

Description:

A summarization of the measurements and assessments for a real investigation unit for the species associated with a layer at the time of measurement.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
BASAL AREA The aggregate area total of tree diameters, converted to a square metres basis. << 1998-03-27-12:47 sourced from:346868:347042 >>	BASAL AREA	Y	NUMBER	7,4
BASAL AREA PCT The relative species percentage based on basal area. << 1998-03-27-12:47 sourced from:346868:347044 >>	PERCENTAGE 100	Y	NUMBER	3,0
BASAL AREA PER HA The aggregate area total of tree diameter, converted to a square metres / unit hectare basis. << 1998-03-27-12:47 sourced from:346868:347043 >>	BASAL AREA PER HA	Y	NUMBER	8,4
* LAYER SPP SKEY << 1998-03-27-12:47 sourced from:346868:347198 >>	SKEY 7	N	NUMBER	7,0
LIVE DEAD COND CD The extent condition that applies to the tree selection used for calculating species composition. << 1998-03-27-12:47 sourced from:346868:347005 >>	EXTANT GROUP	Y	VARCHAR2	4
MAX DBH For the purposes of calculating the layer specied compostion, the maximum diameter below which trees were included reflecting potential subplot/main plot separation. This may never be utilized as it would make mor	TREE DIAMETER 4 1	Y	NUMBER	4,1

Entity Name:	LAYER SPECIES COMPOSITION (cont'd)	Short Name:	LYSPC
---------------------	------------------------------------	--------------------	-------

e sense to calculate the species composition of the entire sample / experimental plot from all individual trees and apply per hectare factor based on the plot the tree belongs to.

<< 1998-03-27-12:47 sourced from:346868:347122 >>

MIN DBH	TREE DIAMETER 4 1	Y	NUMBER	4,1
---------	-------------------	---	--------	-----

For the purposes of calculating the layer specied compostion, the minimum diameter above which trees were included reflecting potential subplot/main plot separation. This may never be utilized as it would make more sense to calculate the species composition of the entire sample / experimental plot from all individual trees and apply per hectare factor based on the plot the tree belongs to.

<< 1998-03-27-12:47 sourced from:346868:347041 >>

QUADRATIC MEAN DIAM	TREE DIAMETER 4 1	Y	NUMBER	4,1
---------------------	-------------------	---	--------	-----

The mean diameter weighted by stand density.

<< 1998-03-27-12:47 sourced from:346868:347045 >>

WILSON SPACING FTR		Y	NUMBER	7,1
--------------------	--	---	--------	-----

An index of stand density using Wilson's spacing formulas. A lower number indicates a denser sample.

The algorithms are:

$$((\text{square root of } 10,000 / \text{number stems per ha}) / \text{top height}) * 100$$

Note:

That the Wilson's Spacing Factor is a type of quantification of stand density, also known as 'relative density.'

<< 1998-03-27-12:47 sourced from:346868:347107 >>

Entity Name:	LAYER SPECIES COMPOSITION (cont'd)	Short Name:	LYSPC
---------------------	------------------------------------	--------------------	-------

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE characterized by one or more AGE STATISTICAL ESTIMATES
- MAY BE characterized by one or more HT STATISTICAL ESTIMATES
- MAY BE characterized by one or more SITE INDEX STATISTICAL EST
- MUST BE a derivation for one and only one LAYER FOREST COVER ASSMT
- MUST BE made up from one and only one GROUP TAXONOMIC MEMBERSHIP
- * = Relationships in primary unique identifier.

Unique Identifiers:

LYSPC1	Primary	Y
LAYER SPP SKEY		

Notes:

A? Scope adjustment for required derived values; many of the

attributes will be kept and possibly derivation routines be

written. May want to add Variance of mean age and mean height.

<< 1998-03-27-12:47 sourced from:346868:346911 >>

Entity Name:	LOG ASSESSMENT	Short Name:	LGO
Plural:	LOG ASSESSMENTS		
Init. Volume:	15000	Avg. Volume:	20000
		Max. Volume:	25000
		Annual Growth Rate:	

Description:

The assignment of a class of potential wood quality to a portion of a tree used for developing local quality estimates for timber.

The 'logs', or figurative sectioning of the tree, are variable length, and permit the assessment for maximum quality above a minimum length.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
SEQ NUM		N	NUMBER	2
The sequence of the call grades from tree bottom. This is the sequence as supplied on the field sheet, Vegetation Inventory card, TD.				
<< 1998-03-26-15:49 sourced from:7003:233023 >>				
* LOG ASSMT SKEY		N	NUMBER	7
System generated UID from Oracle sequence LOG_ASSMT_SEQ.				
<< 1998-03-26-15:49 sourced from:7003:568927 >>				
LENGTH		N	NUMBER	3,1
The estimated length of the log of a specific grade.				
<< 1998-03-26-15:49 sourced from:7003:233021 >>				
SOUND PCT	PERCENTAGE 100	N	NUMBER	3,0
The estimated percentage of sound wood the log contains.				
<< 1998-03-26-15:49 sourced from:7003:233022 >>				
LAST LOG IND	INDICATOR DEFAULT N	N	VARCHAR2	1

Entity Name: LOG ASSESSMENT (cont'd)

Short Name:

LGO

An indicator that shows if this is the last or top log cur from the tree. A 'Y' value indicates it is the last or top log, 'N' indicates it is not.

<< 1998-03-26-15:49 sourced from:7003:539968 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE assessed by one and only one SPECIES GRADE CD
MUST BE for one and only one TREE MEASUREMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

LGO1	Primary	Y
LOG ASSMT SKEY		

Notes:

<< 1998-03-26-15:49 sourced from:7003:230613 >>

Data Administration
Entity Definition Report

Entity Name: LOG DECOMPOSTION CLASS CD		<i>Short Name:</i>	LDCC
<i>Plural:</i>	LOG DECOMPOSTION CLASS CDS		
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200
		<i>Max. Volume:</i>	400
		<i>Annual Growth Rate:</i>	

Description:

The identification of a log decomposition class by its associated

attribution of portion of ground on

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
-------------	---------------	------------	---------------	---------------

* = Attributes in primary unique identifier.

Data Administration
Entity Definition Report

Entity Name: LOSS		Short Name: LFAC	
<i>Plural:</i>	LOSS FACTORS		
<i>Init. Volume:</i>		<i>Avg. Volume:</i>	
		<i>Max. Volume:</i>	
<i>Subtype of:</i>	ADJUSTMENT FACTOR	<i>Annual Growth Rate:</i>	

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-26-11:55 sourced from:236464:427145 >>

Entity Name: MAP UPDATE ACTIVITY				Short Name:	MUA
Plural:	MAP UPDATE ACTIVITIES				
Init. Volume:	1000	Avg. Volume:	5000	Max. Volume:	10000
				Annual Growth Rate:	10%

Description:

The event of an initiative, in the form of a Inventory Contract or a Inventory Project (in house), that updates a selected group of maps, and thereby creates a new (higher) file version.

An associative entity to reflect many mapsheets to many initiatives.

Attributes:

Name	Domain	Opt	Format	Length
* MAP UPDATE SKEY		N	NUMBER	7,0
System generated UID from ORACLE sequence map update seq.				
<< 1998-03-25-16:58 sourced from:416792:506319 >>				
CREATE DATE		N	DATE	
<< 1998-03-25-16:58 sourced from:416792:492783 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-25-16:58 sourced from:416792:492784 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-25-16:58 sourced from:416792:492785 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-03-25-16:58 sourced from:416792:492786 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE sourced from one and only one VGIS PROJECT
or MAY BE sourced from one and only one CONTRACT
MUST BE updating one and only one GRAPHICS FILE VERSION
* = Relationships in primary unique identifier.

Unique Identifiers:

MUA1	Primary	Y
MAP UPDATE SKEY		

Notes:

<< 1998-03-25-16:58 sourced from:416792:418248 >>

Data Administration
Entity Definition Report

Entity Name: MAPSHEET COMPONENT			<i>Short Name:</i>	MCMP
<i>Plural:</i>	MAPSHEET COMPONENTS			
<i>Init. Volume:</i>	7130	<i>Avg. Volume:</i>	8500	<i>Max. Volume:</i> 10000
			<i>Annual Growth Rate:</i>	

Description:

A cartographic coverage with a value, which together with other coverages and their values, make up a BCGS mapsheet identification.

For example, BCGS 6 x 12 mapsheet, '082E098' is made up of the following components:

- 082, the NTS Number block,
- E, the NTS letter block and
- 098, the BCGS 6' x 12' coverage.

This construct allows for the insertion of other converages as they may occur in the business.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MAP COMP SKEY	<< 1998-03-25-16:59 sourced from:416792:608047 >>	N	NUMBER	7,0
COMPONENT VALUE		N	VARCHAR2	8
UTM ZONE ACTUAL		Y	NUMBER	2,0
UTM ZONE USED		Y	NUMBER	2,0

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a part of one and only one MAPSHEET COMPONENT
- MAY BE an aggregate of one or more MAPSHEET COMPONENTS
- MAY BE cartographically identifying one or more GRAPHICS FILE VERSIONS

Entity Name:	MAPSHEET COMPONENT (cont'd)	Short Name:	MCMP
---------------------	-----------------------------	--------------------	------

MAY BE cartographically identifying one or more TEXT FILE VERSIONS
MAY BE containing one or more PLOT CLUSTERS
MAY BE containing one or more POINT LOCATIONS
MAY BE described for one or more QUALITY ASSURANCE ASSNS
MAY BE geographically bounding one or more DEFAULT CROWN CLOSURES
MAY BE identifying one or more TFL BLOCK MAPSHEET ASSNS
MAY BE referenced on one or more VERSION AUDIT METADATA
MAY BE subject to one or more ROLE ASSOCIATIONS
MUST BE classified by one and only one MAPSHEET COMPONENT TYPE
* = *Relationships in primary unique identifier.*

Unique Identifiers:

MCMP1	Primary	Y
MAP COMP SKEY		

Notes:

A BCGS mapsheet identification is made up of a UTM Zone, a Number
Block, a Letter Block, and a BCGS Identification Number.

<< 1998-03-25-16:59 sourced from:416792:608024 >>

Data Administration
Entity Definition Report

Entity Name: MAPSHEET COMPONENT TYPE			Short Name:	MCTYP
Plural:	MAPSHEET COMPONENT TYPES			
Init. Volume:	4	Avg. Volume:	20	Max. Volume: 50
			Annual Growth Rate:	

Description:

a classification of the various components that make up a BCGS
mapsheet identification.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MAP COMP TYPE SKEY	<< 1998-03-25-16:43 sourced from:416792:613185 >>			
DESCRIPTION	<< 1998-03-25-16:43 sourced from:416792:613187 >>			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a classification of one or more MAPSHEET COMPONENTS
MAY BE a group of one or more MAPSHEET COMPONENT TYPES
MAY BE a part of one and only one MAPSHEET COMPONENT TYPE
* = Relationships in primary unique identifier.

Unique Identifiers:

MCTYP1	Primary	Y
MAP COMP TYPE SKEY		

Notes:

A mapsheet component type can be one of the following: a UTM Zone, a
Number Block, a Letter Block, or a BCGS Identification Number.

A Number Block contains Letter Blocks. A Letter Block contains BCGS
Identification Numbers.

<< 1998-03-25-16:43 sourced from:416792:613168 >>

Entity Name: MEAN DIAMETER ASSESSMENT				Short Name:	MDA
Plural:	MEAN DIAMETER ASSESSMENTS				
Init. Volume:	7000000	Avg. Volume:	1000000	Max. Volume:	12000000
				Annual Growth Rate:	5%

Description:

The mean diameter applied to either a species of the layer or the whole stand.

Normally this is an attribute that is difficult to interpret or estimate from aerial photography, though it may be collected from field visitations. Tree volume derivvation routines such as VDYP may calculate a quadratic mean diameter based on a coefficient set determined from sample data.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MEAN DIAM SKEY	SKEY 7	N	NUMBER	7,0
The system generated identifier.				
Populated from MEAN_DIAM_SEQ.				
<< 1998-03-26-17:18 sourced from:236464:679899 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:26 sourced from:236464:422006>>				
<< 1998-03-26-17:18 sourced from:236464:681658 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				
<<1997-12-09-14:26 sourced from:236464:422005>>				
<< 1998-03-26-17:18 sourced from:236464:681657 >>				

Entity Name:

MEAN DIAMETER ASSESSMENT (cont'd)

Short Name:

MDA

MODIFY USER ID

ORACLE USER

Y

VARCHAR2

30

ORACLE user id of the last user to modify the record.

<<1997-12-09-14:26 sourced from:236464:422008>>

<< 1998-03-26-17:18 sourced from:236464:681660 >>

MODIFY DATE

Y

DATE

The date the record was last modified.

<<1997-12-09-14:26 sourced from:236464:422007>>

<< 1998-03-26-17:18 sourced from:236464:681659 >>

QUADRATIC MEAN DIAM

TREE DIAMETER 4 1

N

NUMBER

4,1

The mean diameter weighted by stand density.

<<1997-11-18-15:19 sourced from:236464:427624>>

<<1997-12-08-14:44 sourced from:236464:670136>>

<< 1998-03-26-17:18 sourced from:236464:681002 >>

INTERPRETATION SOURCE CD

INTERPRETATION DATA

Y

NUMBER

2

The source of the mean diameter.

SOURCE

<< 1998-03-26-17:18 sourced from:236464:786459 >>

SOURCE TYPE

DATA SOURCE TYPE

N

VARCHAR2

5

The basic source type; either Collected or Derived.

Expected to be used for FIP sourced data only; all within-database

derivations will have a DERIVATION TRANSACTION occurence to identify

derived data.

<< 1998-03-26-17:18 sourced from:236464:786460 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

Entity Name:

MEAN DIAMETER ASSESSMENT (cont'd)

Short Name:

MDA

MAY BE derived for one and only one UTILIZATION LEVEL AREA ASSOCIATION
MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT
* = *Relationships in primary unique identifier.*

Unique Identifiers:

MDA1	Primary	Y
MEAN DIAM SKEY		

Notes:

<< 1998-03-26-17:18 sourced from:236464:679890 >>

Entity Name: MEAN HEIGHT ASSESSMENT				<i>Short Name:</i>	MHA
<i>Plural:</i>	MEAN HEIGHT ASSESSMENTS				
<i>Init. Volume:</i>	3000000	<i>Avg. Volume:</i>	4000000	<i>Max. Volume:</i>	8000000
				<i>Annual Growth Rate:</i>	10%

Description:

The mean height, of the dominant and codominant trees with separate associations for the FIP and Vegetation Inventory sources.

The sources are:

1) In the FIP standard, the HEIGHT ESTIMATE applies to TREE LAYER, which is different from

2) the Vegetation Inventory standard, where it applies to a photo-interpreted estimate of the mean height, weighted by basal area, of a tree species.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* MEAN HT SKEY	SKEY 14	N	NUMBER	14,0
The system generated surrogate identifier. Populated by sequence, MEAN_HT_SEQ.				
<< 1998-03-26-17:18 sourced from:236464:679896 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:26 sourced from:236464:422006>>				
<< 1998-03-26-17:19 sourced from:236464:681662 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				

Entity Name:

MEAN HEIGHT ASSESSMENT (cont'd)

Short Name:

MHA

<<1997-12-09-14:26 sourced from:236464:422005>>

<< 1998-03-26-17:19 sourced from:236464:681661 >>

MODIFY USER ID

ORACLE USER

Y

VARCHAR2

30

ORACLE user id of the last user to modify the record.

<<1997-12-09-14:26 sourced from:236464:422008>>

<< 1998-03-26-17:19 sourced from:236464:681664 >>

MODIFY DATE

Y

DATE

The date the record was last modified.

<<1997-12-09-14:26 sourced from:236464:422007>>

<< 1998-03-26-17:19 sourced from:236464:681663 >>

HEIGHT

TREE HEIGHT 4 2

N

NUMBER

4,2

The mean height, of the dominant and codominant trees with separate associations for the FIP and Vegetation Inventory sources.

The sources are:

1) In the FIP standard, the HEIGHT ESTIMATE applies to TREE LAYER, which is different from

2) the Vegetation Inventory standard, where it applies to a photo-interpreted estimate of the mean age, weighted by basal area, of a tree species.

<<1997-12-08-14:43 sourced from:236464:508444>>

<< 1998-03-26-17:19 sourced from:236464:680996 >>

HEIGHT MINIMUM

TREE HEIGHT 4 2

N

NUMBER

4,2

Data Administration
Entity Definition Report

Entity Name:	MEAN HEIGHT ASSESSMENT (cont'd)	Short Name:	MHA
---------------------	---------------------------------	--------------------	-----

The minimum height of the dominant and codominant canopy.

<<1997-12-08-14:43 sourced from:236464:508445>>

<< 1998-03-26-17:19 sourced from:236464:681000 >>

HEIGHT MAXIMUM	TREE HEIGHT 4 2	N	NUMBER	4,2
----------------	-----------------	---	--------	-----

The maximum height of the dominant and codominant canopy.

<<1997-12-08-14:43 sourced from:236464:508446>>

<< 1998-03-26-17:19 sourced from:236464:680999 >>

REVISION DATE	Y	DATE
---------------	---	------

The date the HEIGHT was revised after it was originally interpreted as part of the Vegetation Inventory classification.

<<1997-12-08-14:43 sourced from:236464:670181>>

<< 1998-03-26-17:19 sourced from:236464:681001 >>

CONFIDENCE INDEX NUM	ESTIMATE CONFIDENCE INDEX	Y	NUMBER	1
----------------------	---------------------------	---	--------	---

A subjective discrete assignment from 1 to 9 which reflects the photo interpreter's confidence in the estimation of the tree Height Estimate. The higher the number, the greater the confidence in the interpretation of tree age.

The confidence index should not reflect the individual interpreter's abilities, but an estimate of the difficulty of making the interpretation due to polygon complexity and reliability of data sources.

Definition Source: p. 6-20, PIP

<<1997-12-08-14:43 sourced from:236464:508615>>

<< 1998-03-26-17:19 sourced from:236464:680997 >>

INTERPRETATION SOURCE CD	INTERPRETATION DATA SOURCE	Y	NUMBER	2
--------------------------	----------------------------	---	--------	---

Entity Name:

MEAN HEIGHT ASSESSMENT (cont'd)

Short Name:

MHA

The source of data used for the interpretation of height.

<<1997-12-08-14:43 sourced from:236464:670113>>

<< 1998-03-26-17:19 sourced from:236464:680998 >>

SOURCE TYPE	DATA SOURCE TYPE	N	VARCHAR2	5
The basic source type; either Collected or Derived.				

Expected to be used for FIP sourced data only; all within-database

derivations will have a DERIVATION TRANSACTION occurrence to identify
derived data.

<< 1998-03-26-17:19 sourced from:236464:786461 >>

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT
* = *Relationships in primary unique identifier.*

Unique Identifiers:

MHA1	Primary	Y
MEAN HT SKEY		

Notes:

<< 1998-03-26-17:18 sourced from:236464:679884 >>

Data Administration
Entity Definition Report

Entity Name: MEASMT VISITATION				Short Name:	MEAVT
Plural:	MEASMT VISITATIONS				
Init. Volume:	15000	Avg. Volume:	125000	Max. Volume:	150000
				Annual Growth Rate:	5%

Description:

The activity of collecting tree growth measurement data in the field from a sample or experimental unit. This does not apply to visitations for other purposes such as ecological assessment or affirmation of specific measurements.

The measurement visitation applies to the event of assessing individual trees, the layer and the stand.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CREATE DATE << 1998-03-27-10:56 sourced from:346868:347689 >>		N	DATE	
CREATE USER ID << 1998-03-27-10:56 sourced from:346868:347691 >>	ORACLE USER	N	VARCHAR2	30
GROWTH SEASON END DATE The end date of the growing season, considered to be the period during which measurable tree dimensions increase. The specific physiologic sequence is bud flushing, terminal and secondary leader elongation, diameter increase which ends with buds hardening. This is not meant to include lammas growth (new growth after bud hardening in a warm fall). The default is August 31. << 1998-03-27-10:56 sourced from:346868:347692 >>		Y	DATE	
GROWTH SEASON START DATE The start date of the growing season, considered to be the period during which measurable tree dimensions increase. The specific		Y	DATE	

Entity Name:	MEASMT VISITATION (cont'd)	Short Name:	MEAVT
---------------------	----------------------------	--------------------	-------

physiologic sequence is bud flushing, terminal and secondary leader elongation, diameter increase which ends with buds hardening. This is not meant to include lammas growth (new growth after bud hardening in a warm fall).

The default is May 1.

<< 1998-03-27-10:56 sourced from:346868:347693 >>

GROWTH YEAR	TREE ORIGIN YR	Y	NUMBER	4,0
-------------	----------------	---	--------	-----

The year that represents the portion of growing season, if the sample or experimental unit was measured during the growing season, May 1 through August 31 (123 days).

The year the tree is considered to have grown vis a vis the year the tree was measured. The growing season is considered to begin at a specified start date (eg. May 1) and end at a later date (eg. August 31). Measurements taken in the next calendar year, but before the Growing Season start date would have a Growing Season year of the calendar year minus one. Where measurements are taken after the Growing Season start date but within the same calendar year, the Growing Season year equals the Measurement year.

<< 1998-03-27-10:56 sourced from:346868:347694 >>

GROWTH YEAR FRACTION	NUM 2 2	Y	NUMBER	2,2
----------------------	---------	---	--------	-----

The decimal fraction of the growing season year calculated as a portion of: the number of days from May 1 to August 31 (123 days). The decimal fraction is applied when the investigation unit is measured during the growing season.

Data Administration
Entity Definition Report

Entity Name: MEASMT VISITATION (cont'd) **Short Name:** MEAVT

<< 1998-03-27-10:56 sourced from:346868:347695 >>

POLYGON_IDENTIFIER	Y	VARCHAR2	14
--------------------	---	----------	----

The Polygon Identifier that the sample is contained within. Since a sample can be assigned to a number of polygons throughout time, due to an amalgamation of polygons or splitting of polygons, a polygon identifier is associated with each measurement rather than the plot definition i.e. the Plot Cluster.

MEASMT DATE	N	DATE	
-------------	---	------	--

The date of completion of all tree measurements on the sample or experimental unit.

<< 1998-03-27-10:56 sourced from:346868:347696 >>

MEASMT VISITN NUM	MEASMT VISIT NUM	N	NUMBER	3,1
-------------------	------------------	---	--------	-----

A number used within the business that is sequentially assigned from zero (the establishment) to denote the relative order of repeated measurements of a sample or experimental unit.

<< 1998-03-27-10:56 sourced from:346868:347697 >>

* MEASMT VISIT SKEY	SKEY 7	N	NUMBER	7,0
---------------------	--------	---	--------	-----

<< 1998-03-27-10:56 sourced from:346868:347698 >>

CMT	DESC 256	Y	VARCHAR2	256
-----	----------	---	----------	-----

Textual description pertaining to the measurement visitation.

<< 1998-03-27-10:56 sourced from:346868:347699 >>

COLLTN SOFTWARE	DESC 25	Y	VARCHAR2	25
-----------------	---------	---	----------	----

The name of the software, that was used to collect the tree data at the occasion of the measurement.

<< 1998-03-27-10:56 sourced from:346868:347700 >>

COLLTN SOFTWARE VER	NUM 3	Y	NUMBER	3,0
---------------------	-------	---	--------	-----

The version of the collection software that was used to collect the tree data at the occasion of the measurement.

<< 1998-03-27-10:56 sourced from:346868:347701 >>

Entity Name:

MEASMT VISITATION (cont'd)

Short Name:

MEAVT

FIELD CREW MBR 1 NAME

DESC 25

Y

VARCHAR2

25

The name of the senior member of the field crew. Use full surname followed by initials (no punctuation).

<< 1998-03-27-10:56 sourced from:346868:347702 >>

FIELD CREW MBR 2 NAME

DESC 25

Y

VARCHAR2

25

The name of the junior member of the field crew.

<< 1998-03-27-10:56 sourced from:346868:347703 >>

MODIFY DATE

Y

DATE

<< 1998-03-27-10:56 sourced from:346868:347704 >>

MODIFY USER ID

ORACLE USER

Y

VARCHAR2

30

<< 1998-03-27-10:56 sourced from:346868:347705 >>

TYPICAL TREES IND

INDICATOR

Y

VARCHAR2

1

A subjective evaluation that indicates whether or not the trees measured are typical of the polygon sampled. For example, a plot or sub-plot may be located in a wetland microsite within an upland forest and not typical of the polygon being sampled.

<< 1998-03-27-10:56 sourced from:346868:563562 >>

TYPICAL ECOLOGY IND

INDICATOR

Y

VARCHAR2

1

A subjective evaluation that indicates whether or not the ecology of the area measured is typical of the polygon sampled. For example, a plot or sub-plot may be located in a wetland microsite within an upland forest and not typical of the polygon being sampled.

<< 1998-03-27-10:56 sourced from:346868:563563 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a collection event at one or more POINT LOCATION VISITATIONS
MAY BE associated with one or more MEASUREMENT PROCESSES

Entity Name:	MEASMT VISITATION (cont'd)	Short Name:	MEAVT
---------------------	----------------------------	--------------------	-------

- MAY BE associated with one or more ROLE ASSOCIATIONS
 - MAY BE be subjected to one or more QUALITY ASSURANCE ACTIVITIES
 - MAY BE belonging to one and only one SAMPLE PROCESSING GROUP
 - MAY BE described by one or more VISITATION NOTES
 - MAY BE the collectiing event for one or more LAYER FOREST COVER ASSMTS
 - MAY BE the logical unit of work for one and only one PROCESS STATE
 - MAY BE visually recorded by one or more SAMPLE PHOTOS
 - MUST BE a data collection event for one and only one PLOT CLUSTER
- * = Relationships in primary unique identifier.

Unique Identifiers:

MEAVT2	Primary	N
MUST BE a data collection event for one and only one PLOT CLUSTER		
MEASMT VISITN NUM		
MEAVT1	Primary	Y
MEASMT VISIT SKEY		

Notes:

<< 1998-03-27-10:56 sourced from:346868:347677 >>

Entity Name: METHOD CD		<i>Short Name:</i> SMC	
<i>Plural:</i>	SILV METHOD CODES		
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100
		<i>Max. Volume:</i>	100
		<i>Annual Growth Rate:</i>	3%
<i>Subtype of:</i>	SILVICULTURE ACTIVITY CD		

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* METHOD CD		N	VARCHAR2	8
From FIP History record attribute Activity Cd.				

<< 1998-03-26-11:52 sourced from:236464:436124 >>

* = Attributes in primary unique identifier.

Unique Identifiers:

SMC1	Primary	Y
METHOD CD		

Notes:

<< 1998-03-26-11:52 sourced from:236464:435917 >>

Entity Name: MUMS SOURCED AGENCY			Short Name:	MSRCE
Plural:	MUMS SOURCED AGENCIES			
Init. Volume:	50	Avg. Volume:	100	Max. Volume: 300
Annual Growth Rate:				
Subtype of:	VGIS AGENCY			

Description:

MUMS sourced agencies which cannot be reliably identified in the Ministry standard tables of FOREST CLIENT and ORG UNIT.

The problem, unique to MUMS, is the supply of an a text string from the title block of a mapsheet which may contain anything, including several misspellings of the same contractor (an AGENCY). The storage of these strings is desired, and this subtype serves to identify MUMS related 'agencies' in whatever form they are.

Also known as a Specially Held Information Type; better understood by its acronym.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-27-12:48 sourced from:346868:612274 >>

ATTRIBUTE SKEY

Data Administration
Entity Definition Report

Entity Name:	NON STANDARD ATTRIBUTE DEFINITIO (cont'd)	<i>Short Name:</i>	NSAT
---------------------	---	--------------------	------

Notes:

<< 1998-03-27-13:07 sourced from:236464:501086 >>

Entity Name:	NON STANDARD VALUE			<i>Short Name:</i>	NSDV
<i>Plural:</i>	NON STANDARD VALUES				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	1000
				<i>Annual Growth Rate:</i>	1%

Description:

The collected value of the NON STANDARD ATTRIBUTE DEFINITION.

Reserved forad-hoc additions to the Vegetation Inventory program

especially where there is local conditions that warrant inclusion.

Attributes:					
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	
NON STANDARD VALUE		Y	VARCHAR2	75	
A generic field to contain non standard values.					
<< 1998-03-26-13:16 sourced from:236464:687710 >>					
* = Attributes in primary unique identifier.					

Relationships:

Each Occurrence Of This Entity:

MUST BE collected for one and only one BUSINESS OBJECT ASSESSMENT

MUST BE collected for one and only one NON STANDARD ATTRIBUTE DEFINITION

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-13:16 sourced from:236464:687702 >>

Entity Name: NON TREE ELEMENT ASSMT		<i>Short Name:</i>	NTEA
<i>Plural:</i>	NON TREE ELEMENT ASSMTS		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>
<i>Subtype of:</i>	CLUSTER ELMT MEASMT		

Description:

The group of assessments on a plot cluster at a visitation (e.g. location and time) which are observed or measured on biophysical objects or object groups other than individual trees (TREE MEASUREMENTS).

This entity includes tree species by diameter class and frequency count, as this represents groups of trees. Other assessments that would be included are:

- ecosystem description,
- site features,
- succession interpretations,
- vegetation layer assessments,
- range vegetation measurements,
- forage production measurements and
- coarse woody debris measurements.

A! as an analysis note, this is a purely logical entity, as this entity serves to inherit a single relationship to the plant species table (GROUP TAXONOMIC MEMBERSHIP) for all the nested subtypes (above). The TREE MEASUREMENT subtype differs in that it inherits its relationship to GROUP TAXONOMIC MEMBERSHIP through TREE, which can bere-identified and measured on many occasions over time

Data Administration
Entity Definition Report

Entity Name:	NON TREE ELEMENT ASSMT (cont'd)	<i>Short Name:</i>	NTEA
(i.e. VISITATIONS).			

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE described by one and only one GROUP TAXONOMIC MEMBERSHIP
* = Relationships in primary unique identifier.

Subtypes:

- COARSE WOODY DEBRIS MEASMT
- ECOSYSTEM DESCRIPTION DETAIL
- FORAGE PRODUCTION MEASMT
- FREQUENCY COUNT
- RANGE VEGETATION MEASUREMENT
- SITE FEATURE ASSESSMENTS
- SUCCESSION INTERPRETATION
- VEGETATION LAYER COVER ASSMT
- VEGETATION LAYER OVERALL COVER

Entity Name: NON TREE VEGETATION				Short Name:	NTVI
Plural:	NON TREED VEG INTRPRTNS				
Init. Volume:	100000	Avg. Volume:	150000	Max. Volume:	300000
Annual Growth Rate:	5%				
Subtype of:	INTERPRETATION				

Description:

The specialized interpretation applied to an entire polygon that applies to the non-treed vegetation of shrubs, herbs and bryoids.

This interpretation applies to all aggregated non-treed areas in a polygon.

Discrimination of shrub, herb or bryoid is by generating the TYPE attribute from the respective short names of the subtypes. The attribute NON TREE VEGETATION TYPE was removed to avoid redundancy.

Definition Source: combined from Sec. 7, 8, 9, PIP

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
NON TREE VEGETATION TYPE	NON TREE VEG INTRPRTN	N	VARCHAR2	10
Subtyping attribute for HERB, SHRUB and BRYOID.				
COVER PATTERN NUM	COVER PATTERN	N	NUMBER	1
The assigned identifying number of a visual pattern chart that best compares to the spatial distribution and prevalance of the shrubs, and herbs. Not collected for bryoids.				

Definition Source: pp. 7-4 (fig. 7-2), 8-5 (fig. 8-2)

Entity Name:	NON TREE VEGETATION (cont'd)	Short Name:	NTVI
---------------------	------------------------------	--------------------	------

A! use a domain for multiple use

A! rule to enforce null for Vegetation Type = 'BRYOID'

A_S! col. 114, 120 of VRI Att. (Entry) form

<< 1998-03-26-11:46 sourced from:236464:286625 >>

SHRUB HT	SHRUB HT MAX 25 M	Y	NUMBER	3,1
----------	-------------------	---	--------	-----

The average height of the shrubs contained in the polygon as

interpreted from medium scale phototgraphy.

Note that this attribute only applies to the Shrub component.

Definition Source: p. 7-2, PIP

A_S! col. 108-110.

A! need rule to enforce only not null for Vegetation Type='SHRUB'

<< 1998-03-26-11:46 sourced from:236464:286626 >>

COVER PCT	PERCENTAGE 100 MIN 1	N	NUMBER	3
-----------	----------------------	---	--------	---

The area the non-tree vegetated portion covers expressed as a

percentage of the entire polygons area.

There is a slight definitional difference between shrubs and the

remaining types of this group, herbs and bryoids:

- shrubs, crown cover of ground area
- herbs and bryoids, ground cover.

Entity Name: NON TREE VEGETATION (cont'd)

Short Name:

NTVI

The difference is thought to relate more to the physical nature of the vegetation and not separately attributable.

Definition Source; pp. 7-3, 8-3, 9-2, PIP

A_S! col. 111-113, 117-119, 121-123 of VRI Attribute (Entry) Form

<< 1998-03-26-11:46 sourced from:236464:286627 >>

* = *Attributes in primary unique identifier.*

Notes:

A! key by shrub, herb, bryoid

<< 1998-03-26-11:46 sourced from:236464:244075 >>

Entity Name: NON VEGETATION				Short Name:	NVI
Plural:	NON VEGETATION INTRPRTNS				
Init. Volume:	1000000	Avg. Volume:	1500000	Max. Volume:	3000000
Annual Growth Rate:	5%				
Subtype of:	INTERPRETATION				

Description:

The aggregate portion of a polygon interpreted as non vegetated to which specialized estimates are applied.

The portions maybe one of two categories:

-an identifiable, distinct and sufficiently large portion that is assigned a Land Cover Classification, or

-a dispersed, indistinct and/or small portion that is applied as a percentage of the entire polygon.

In the event of one or both, they are interpreted in the aggregate (as one) and the relationship to the appropriate Land Cover Component

Code procedural references to validate reasonableness for appropriate Land Cover Component Interpretations.

Definition Source: p 10-1, PIP and discussions with J Aleman to clarify analysis,- JH 96-06

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
COVER PCT	PERCENTAGE 100 MIN 1	N	NUMBER	3
The area the non-vegetated portion covers expressed as a percentage of the entire polygons area.				

Entity Name:	NON VEGETATION (cont'd)	<i>Short Name:</i>	NVI
---------------------	-------------------------	--------------------	-----

Definition Source: p. 10-5, PIP

A_S! col. 126-128 VRI Att. (entry) form

<< 1998-03-26-11:46 sourced from:236464:286628 >>

COVER PATTERN NUM	COVER PATTERN	N	NUMBER	1
-------------------	---------------	---	--------	---

The assigned identifying number of a visual pattern chart that best compares to the spatial distribution and prevalence of the shrubs, and herbs.

Definition Source: pp. 7-4 (fig. 7-2), 8-5 (fig. 8-2), same as pp. 10-7, fig. 10-2, PIP

A_S! col. 129 VRI Att. (entry) form

<< 1998-03-26-11:46 sourced from:236464:286629 >>

* = *Attributes in primary unique identifier.*

Notes:

A! additional description added from discussions with J Aleman

<< 1998-03-26-11:46 sourced from:236464:244069 >>

Entity Name: NVAF PATHOLOGY		<i>Short Name:</i>	NVP
<i>Plural:</i>	NVAF PATHOLOGIES		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

The observation/ assessment of pathological indicators of decay related to the business area of destructive tree sampling; Volume, Decay and NVAF external bole.

This is by no means rationalized with other business areas that use the same or similar codes to evaluate pathology; Growth and Yield samples (on trees only), Vegetation Inventory ground samples (aka Tree Volume Loss Indicators) and Damage Agents as applied to the Vegetation Inventory Cover. All these requirements of the Damage Agents-Pathological indicators needs to be rationalized, when the custodian (Forest Practices Branch) finally understands how to model this (say nothing of the DA group) OR we do it form them, having an alter version that one day they will come too understand. (The current model of TAXONOMY, SPECIES GROUP etc. is such an example).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Entity Name: OBJECTIVE CD				<i>Short Name:</i>	SOC
<i>Plural:</i>	SILV OBJECTIVE CODES				
<i>Init. Volume:</i>	150	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	500
				<i>Annual Growth Rate:</i>	1%
<i>Subtype of:</i>	SILVICULTURE ACTIVITY CD				

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* OBJECTIVE CD		N	VARCHAR2	10
<< 1998-03-26-11:52 sourced from:236464:436126 >>				
* = Attributes in primary unique identifier.				

Unique Identifiers:

SOC1	Primary	Y
OBJECTIVE CD		

Notes:

<< 1998-03-26-11:52 sourced from:236464:435923 >>

Entity Name: OPERABLE AREA CD			Short Name:	OAC
Plural:	OPERABLE AREA CDS			
Init. Volume:	10	Avg. Volume:	10	Max. Volume: 20
			Annual Growth Rate:	1%

Description:

The codes to denote the determination of economically viable areas for timber extraction. This determination is based on local knowledge applied prior to the submission for TSA analysis.

There are also additional qualifying harvest equipment codes where an area is deemed operable with a Helicopter for example.

This entity has been denormalized on account of the few occurences of the combinations of 'Operable' and the respective qualifying equipment.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* OPERABILITY SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				

Populated by OPERABLE_SEQ

<< 1998-03-26-17:20 sourced from:236464:778706 >>

OPERABILITY CD	FIP OPERABILITY	N	VARCHAR2	1
The assessment of economic viability of timber extraction based on a single point-in-time classification.				

This assessment, particular to the FIP classification only, is applied at two possible levels of resolution:

Entity Name: OPERABLE AREA CD (cont'd)

Short Name: OAC

- at the polygon, where the need arose from ESA classification
- originally, and
- at the Operability theme (or level) which becomes a 'resultant'.

These are independently assessed and may not agree.

This attribution is retained for transition purposes only, no expected update or inclusion in Vegetation Inventory classification is planned. The retention need for this attribution should be reviewed once Vegetation Inventory database receives wide use.

A! removed from BUSINESS OBJECT ASSESSMENT 98-02-10/JH

<< 1998-03-26-17:20 sourced from:236464:778707 >>

OPERABLITY EQUIPMT QUAL CD FIP OPERABILITY
EQUIPMENT Y VARCHAR2 2

The equipment type which qualifies the accessibility (operability) of an operable area.

This attribution is split out from the resultant based Operability Code. The Operability Code identifies operability, though recent (97-06) data discoveries indicated a further qualifying attribution of what equipment was considered in the determination of accessible.

<< 1998-03-26-17:20 sourced from:236464:778724 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE aggregating one or more POLYGONS
MAY BE spatially containing one or more GIS RESULTANTS
* = Relationships in primary unique identifier.

Unique Identifiers:

Entity Name:	OPERABLE AREA CD (cont'd)	<i>Short Name:</i>	OAC
OAC1	<i>Primary</i>	Y	
<i>OPERABILITY SKEY</i>			

Notes:

<< 1998-03-26-17:20 sourced from:236464:778698 >>

Data Administration
Entity Definition Report

Entity Name: ORG UNIT			Short Name:	ORGUN
Plural:	ORG UNITS			
Init. Volume:	100	Avg. Volume:	500	Max. Volume: 500
Subtype of: VGIS AGENCY			Annual Growth Rate:	5%

Description:

An organizational unit of the Ministry of Forests. A corporate code table.

Will often identify the location, type of office (region, district) and the nature of the business. Semantically overloaded, though it cannot be unravelled at this point (95-12).

Attrutes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
MOF ORG UNIT CD		Y	VARCHAR2	6
MOF Org Unit Code.				

<< 1998-03-25-16:28 sourced from:346868:347383 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE converted from one or more FIP REG DIST REDUNDANT CDS
- MAY BE geographically containing one or more PLOT CLUSTERS
- MAY BE spatially containing one or more GIS RESULTANTS
- MAY BE staffed by one or more USERS
- * = Relationships in primary unique identifier.

Notes:

<< 1998-03-25-16:28 sourced from:346868:347154 >>

July 17, 2003 (R. Hoffner) -- when generating to physical attribute ORG_NIT: MOF_ORG_UNIT_CD is tied to MOF_ORG_UNIT:ORG_UNIT_CODE

Data Administration
Entity Definition Report

Entity Name: OTHER CLIENT				<i>Short Name:</i> OCLNT	
<i>Plural:</i> OTHER CLIENTS					
<i>Init. Volume:</i> 300		<i>Avg. Volume:</i> 500		<i>Max. Volume:</i> 800	
				<i>Annual Growth Rate:</i> 2%	
<i>Subtype of:</i> VGIS AGENCY					

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
-------------	---------------	------------	---------------	---------------

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-25-16:28 sourced from:346868:349001 >>

Data Administration
Entity Definition Report

Entity Name: OWNERSHIP CD			<i>Short Name:</i>	OC
<i>Plural:</i>	OWNERSHIP CDS			
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100	<i>Max. Volume:</i> 500
			<i>Annual Growth Rate:</i>	2%

Description:

A code indicating the ownership and administrative responsibility for the land contained within a polygon. The major classes of ownership and administrative responsibility include:

- Crown Grants - Private Administration (Codes in the 40's series)
- Federal Lands - Federal Administration (Codes in the 50's series)
- Crown Lands - Provincial Administration (Codes in the 60's series)
- Crown and Private Lands - Private and/or Provincial Administration (Codes in the 70's series)
- Crown and Private Lands - Local Administration (Codes in the 80's series)
- Crown Lands - Provincial Administration under active lease or permit (Codes in the 90's series)

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* OWNERSHIP CD SKEY	SKEY 7	N	NUMBER	7,0
System genereated UID from ORACLE sequence ownership_cd_seq. << 1998-03-26-17:20 sourced from:236464:547041 >>				
OWNERSHIP NUM CD		N	NUMBER	3,0
A code indicating the ownership and administrative reponsibility for the land contained within a polygon. << 1998-03-26-17:20 sourced from:236464:547422 >>				
OWNERSHIP LTR CD	FIP OWNERSHIP CHAR	Y	VARCHAR2	1
A code indicating whether or not a given area is available				

Entity Name: OWNERSHIP CD (cont'd)

Short Name:OC

for long-term integrated resource management. For example,

land in a National Park, Ecological Reserve, etc. is not

available for long-term integrated resource management.

No attempt has been made to unravel the meanings of this attribute; it

appears that there are two meanings:

- Tree Farm Licence schedule letter ('A' or 'B')
 - a determination as to the availibilty of the land area for long term forest management, presumably derived from elsewhere. JH
- << 1998-03-26-17:20 sourced from:236464:547423 >>

DESCRIPTION	Y	VARCHAR2	256
A description of the code indicating ownership and administrative responsibility for the land contained within a polygon.			
<< 1998-03-26-17:20 sourced from:236464:547934 >>			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE spatially containing one or more GIS RESULTANTS

* = Relationships in primary unique identifier.

Unique Identifiers:

OC2	Primary	N
OWNERSHIP NUM CD		
OWNERSHIP LTR CD		
OC1	Primary	Y
OWNERSHIP CD SKEY		

Notes:

<< 1998-03-26-17:20 sourced from:236464:547035 >>

Entity Name: PERSON				<i>Short Name:</i> PER	
<i>Plural:</i> PEOPLE					
<i>Init. Volume:</i> 1000		<i>Avg. Volume:</i> 2000		<i>Max. Volume:</i> 3000	
				<i>Annual Growth Rate:</i> 5%	

Description:

A person, who in some capacity, actively plays a part in the creation, modification of electronic graphics and text data.

This could be expanded beyond the MUMS application to include the personnel involved in data collection for example, currently modelled in the SPD version 5 model for Vegetation Inventory samples.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
USER ID		Y	VARCHAR2	30
The system user id for the person that may either be the sole source of identifying a person, or augment their first and last name.				
<< 1998-03-25-16:59 sourced from:416792:437821 >>				
* PERSON SKEY		N	NUMBER	7,0
The surrogate identifier of a person.				
Assigned by a system generated Oracle sequence, PERSON SKEY SEQ.				
<< 1998-03-25-16:59 sourced from:416792:422503 >>				
LAST NAME	PERSON NAME	N	VARCHAR2	30
The last name, or surname of a person.				
<< 1998-03-25-16:59 sourced from:416792:422500 >>				
FIRST NAME	PERSON NAME	Y	VARCHAR2	30
The first, or given name, of a person				
<< 1998-03-25-16:59 sourced from:416792:422501 >>				
INITIAL		Y	VARCHAR2	4
A commonly used initial for a person.				
<< 1998-03-25-16:59 sourced from:416792:422502 >>				

Entity Name:	PERSON (cont'd)	Short Name:	PER
CREATE DATE	N DATE		
<< 1998-03-25-16:59 sourced from:416792:492787 >>			
MODIFY DATE	Y DATE		
<< 1998-03-25-16:59 sourced from:416792:492788 >>			
CREATE USER ID	N VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:492789 >>			
MODIFY USER ID	Y VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:492790 >>			
EMAIL ID	Y VARCHAR2	256	
The Elemection Mail address (E-Mail ID) on the Internet that			
the person can be contacted through.			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a member of one or more AGENCY PERSON ASSOCIATIONS
- MAY BE hold one or more SAMPLING CERTIFICATIONS
- MAY BE notified by one or more PROCESS OUTCOME NOTIFICNS
- MAY BE participating in one or more ROLE ASSOCIATIONS

* = Relationships in primary unique identifier.

Unique Identifiers:

PER1	Primary	Y
PERSON SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:422494 >>

Entity Name:	PESTICIDE	Short Name:	PES
Plural:	PESTICIDES		
Init. Volume:	50	Avg. Volume:	100
		Max. Volume:	200
		Annual Growth Rate:	

Description:

A substance used to destroy unwanted biological agents, plants or insects.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PESTICIDE CD		N	VARCHAR2	3
A code for a pesticide.				
No current requirement demand exists for this attribute				
(96-04), and if Ministry codes are available, they would be used.				
<< 1998-03-26-16:00 sourced from:7003:232989 >>				
PESTICIDE NAME		N	VARCHAR2	50
The common business name for the pesticide.				
<< 1998-03-26-16:00 sourced from:7003:232990 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE used to effect one or more BRUSHING TREATMENTS

* = Relationships in primary unique identifier.

Unique Identifiers:

PES1	Primary	Y
PESTICIDE CD		

Notes:

<< 1998-03-26-16:00 sourced from:7003:232661 >>

Entity Name: PHENOLOGY				<i>Short Name:</i>	PPA
<i>Plural:</i>	PHENOLOGIES				
<i>Init. Volume:</i>	1500	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	2500
				<i>Annual Growth Rate:</i>	4%

Description:

An asociation of Phenology code that defines seasonal growth

descriptions (flowering, buds, shoots, etc) for a Taxonomic Code

usually at the Phylum level.

The identifiers used have meaning ONLY for the Taxonomic code

associated with the identifier. Thus an isentifier of '1' must have

differnet meaings when attached to Angiosperms and Gymnosperms.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PHENOLOGY IDENTIFIER		N	VARCHAR2	2
The highest level taxonomic categorization of the plant species,				
The phyla of interest for describing range forage are:				
Angiospermae, also termed Anthophyta and loosely albeit inaccurately				
called decidous and				
Coniferales, commonly known as conifers.				
(The term Botanical Order as used by the domain, is incorrect and				
should be renamed to Phylum Cd).				
<< 1998-03-26-16:00 sourced from:7003:564367 >>				
DESCRIPTION		Y	VARCHAR2	75

Entity Name:	PHENOLOGY (cont'd)	<i>Short Name:</i>	PPA
---------------------	--------------------	--------------------	-----

<< 1998-03-26-16:00 sourced from:7003:564368 >>

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

- * MUST BE describes one and only one TAXONOMIC NAME
- * = Relationships in primary unique identifier.*

Unique Identifiers:

PPA1	Primary	Y
<i>MUST BE describes one and only one TAXONOMIC NAME</i>		
PHENOLOGY IDENTIFIER		

Notes:

<< 1998-03-26-16:00 sourced from:7003:536926 >>

Entity Name:	PLANTATION TREE SPECIES COMPOSITI			<i>Short Name:</i>	PTSC
<i>Plural:</i>	PLANTATION TREE SPP COMPS				
<i>Init. Volume:</i>	5000	<i>Avg. Volume:</i>	10000	<i>Max. Volume:</i>	15000
				<i>Annual Growth Rate:</i>	5%

Description:

The record of planted tree species as retained in the Resource

Inventory Branch Silvicultural History attributes.

Will not likely correlate to Silvicultural data, as the spatial resolution of the data will differ.

This entity has been determined from the Vegetation Inventory History Form where the only reference is to the planted tree species (which are modelled as foriegn keys to the Tree Species Cd entity -hence no attribution).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PLANTN SPECIES SKEY	SKEY 7	N	NUMBER	7,0
A system generated unique identifier.				

Populated by sequence PLTN_SPP_SEQ.

<< 1998-03-26-17:22 sourced from:236464:686494 >>

COMPOSITION ESTIMATE PCT	PERCENTAGE 100	Y	NUMBER	3,0
An estimate of the relative percentage of tree species in the interpreted tree layer.				

The estimate is based on living trees according to the following specification:

-basal area, if codominant and dominant trees > 2 m,

Entity Name:	PLANTATION TREE SPECIES COMPOSITI (cont'd)	Short Name:	PTSC
---------------------	--	--------------------	------

-density, if codominant and dominant trees < 2 m.

Definition Source: p. 6-9, Photo Interpretation Procedures, Phase 1,
May 14, 1996.

<< 1998-03-26-17:22 sourced from:236464:688123 >>

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE botanically classified by one and only one GROUP TAXONOMIC MEMBERSHIP
MUST BE a component of one and only one SILVICULTURAL HISTORY
* = *Relationships in primary unique identifier.*

Unique Identifiers:

PTSC1	<i>Primary</i>	<i>Y</i>
PLANTN SPECIES SKEY		

Notes:

<< 1998-03-26-17:22 sourced from:236464:309300 >>

Entity Name: PLOT CLUSTER			<i>Short Name:</i>	PCLTR
<i>Plural:</i>	PLOT CLUSTERS			
<i>Init. Volume:</i>	8000	<i>Avg. Volume:</i>	12000	<i>Max. Volume:</i> 80000
			<i>Annual Growth Rate:</i>	

Description:

The generic name for both experimental and sample units; the collective unit which contains sufficient elements to provide estimates to meet the required statistical precision level. In either case, it has an independent change of selection (or treatment assignment if applicable).

Physically, a PLOT CLUSTER is in the form of a single plot, a number of plots nested at a single location, or a number of plots at separated locations within a stand. A PLOT CLUSTER also reflects the situation where changing specifcations to a plot, effectively creating a new cluster element (a biometric definition of a plot).

A PLOT CLUSTER is a form of an Investigation unit; which itself may be one of a number of different forms - a forest stand, a plot cluster, or an individual tree. In this database application, only the plot cluster form is considered.

AttrIBUTES:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
ACCESS MAP IMAGE		Y	VARCHAR2	1
A future provision for a BLOB; a binary large object or graphics file displaying the a sketch of the access (usually accompanies ACCESS NOTE, the description).				
<< 1998-03-27-10:24 sourced from:346868:347173 >>				
AERIAL PHOTO ID	DESC 25	Y	VARCHAR2	25

Data Administration
Entity Definition Report

Entity Name: PLOT CLUSTER (cont'd)	Short Name: PCLTR
---	--------------------------

A free form text identifier for the aerial photograph in which the sample or experimental plot lies. There are many numbering schemes of aerial photographs owing to differing standards of the time and various sources.

<< 1998-03-27-10:24 sourced from:346868:347174 >>

ALT INVESTIGATION UNIT ID	DESC 25	Y	VARCHAR2	25
---------------------------	---------	---	----------	----

An alternative identifier of the sample or experimental plot. This may be the number by which it was identified by the non-Inventory Branch or non-Ministry owner.

If in time, it becomes widely used, and the owner wishes that their data is not identified by their identifier, this attribute value should be masked for public reports.

<< 1998-03-27-10:24 sourced from:346868:347175 >>

BH REF POINT	BH REF POINT	N	VARCHAR2	1
--------------	--------------	---	----------	---

The point on the tree from which breast height is considered to be measured from. Up to 1989 it was considered to be germination point, the point the tree was considered to have germinated from. On a incline, it would be the centre of the tree (unless other mitigating factors are determinined in the field), and that the tree would have grown equally in girth both upslope and downslope.

Since 1990, the 'high side' point was adopted, meaning the highest up slope ground position,

Other samples or experimental plots from other agencies may have

Data Administration
Entity Definition Report

Entity Name: PLOT CLUSTER (cont'd)	Short Name: PCLTR
---	--------------------------

differing locations.

<< 1998-03-27-10:23 sourced from:346868:347161 >>

BH STANDARD	BH STANDARD	N	NUMBER	4,2
The standard height breast height applied to the entire sample or experimental plot over all measurements. Prior to 1978, samples were measured in imperial units and the associated breast height was 4.5 ft. or 1.37 m.). These samples, if remeasured, are considered to have a breast height standard of 1.30 m. owing to later conversion.				
Basal area will be calculated for a consistent breast height standard for all trees for all measurements.				

<< 1998-03-27-10:23 sourced from:346868:347162 >>

BUFFER IND	INDICATOR DEFAULT N	N	VARCHAR2	1
An indication of a buffer surrounding a sample or plot. A buffer is treated in the same manner as the plot to avoid edge-effects.				
Normally used in on experimental plots only.				

<< 1998-03-27-10:23 sourced from:346868:347163 >>

BUFFER RADIUS		Y	NUMBER	5,2
The radius of the buffer applicable to circular plots or proximate cluster elements.				
A buffer is an area surrounding the plot perimeter which has been treated the same to avoid treatment edge-effects at the plot boundary. Usually applied to experimental plots only.				

<< 1998-03-27-10:24 sourced from:346868:347176 >>

BUFFER X LENGTH		Y	NUMBER	5,2
The length of the buffer side applicable to square or rectangular plots. A buffer is an area surrounding the plot perimeter which has been treated the same to avoid treatment edge-effects				

Data Administration
Entity Definition Report

Entity Name: PLOT CLUSTER (cont'd)	Short Name: PCLTR
---	--------------------------

at the plot boundary.

Usually applied to experimental plots only.

<< 1998-03-27-10:23 sourced from:346868:347177 >>

BUFFER Y LENGTH	Y	NUMBER	5,2
-----------------	---	--------	-----

The length of the buffer side applicable to square or rectangular plots. A buffer is a an area surrounding the plot perimeter which has been treated the same to avoid treatment edge-effects at the plot boundary.

Usually applied to experimental plots only.

<< 1998-03-27-10:23 sourced from:346868:347178 >>

CONDITION STATUS CD	CONDITION STATUS	N	VARCHAR2	3
---------------------	------------------	---	----------	---

The condition of the sample or experimental plot as determined from sources in the field. This does not necessarily reflect the determination as to whether the sample/ exp. plot is remeasured or not; they may be remeasured if partially damaged or conversely, there may be a surplus in some stands which would not be remeasured.

<< 1998-03-27-10:23 sourced from:346868:347164 >>

COUNTRY CD	COUNTRY	Y	VARCHAR2	3
------------	---------	---	----------	---

The country in which the sample/plot resides.

<< 1998-03-27-10:23 sourced from:346868:347165 >>

CREATE DATE	N	DATE
-------------	---	------

<< 1998-03-27-10:23 sourced from:346868:347388 >>

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
----------------	-------------	---	----------	----

<< 1998-03-27-10:23 sourced from:346868:347387 >>

DESIGNATED CONTROL IND	INDICATOR DEFAULT N	Y	VARCHAR2	1
------------------------	---------------------	---	----------	---

The explicit designation of a plot cluster as a control within an

Entity Name:	PLOT CLUSTER (cont'd)	Short Name:	PCLTR
---------------------	-----------------------	--------------------	-------

experiment or hybrid design. These two designs imply that treatments are conducted on some or all of the associated plot clusters.

Controls are defined as no further treatments after establishment of the experiment or hybrid design.

An association of plot clusters would be by experiment under Investigation Initiative and/or an Installation and/or pairing by way of recursive association.

<< 1998-03-27-10:24 sourced from:346868:416731 >>

LEGAL MAP NOTATION	DESC 25	Y	VARCHAR2	25
--------------------	---------	---	----------	----

A formal gazetted status identified on legal status (atlas) maps. This only confers legal recognition on such maps, no protection is implied, though by such a designation, other land use would be known in advance of any potentially destructive activities.

A! a late (95-4-24) thought; some plots are protected with a mineral reserve; should, when the demand builds, have an attribute for the type of legal status and its id. currently it assumed that only the Legal Notation is used.

A! the source for the data will be the Regions/Districts who are directly responsible for Ministry land status maintenance

<< 1998-03-27-10:24 sourced from:346868:347179 >>

LOCN NAME	DESC 50	Y	VARCHAR2	50
-----------	---------	---	----------	----

A location name given to the sample or experimental plot. May refer to a geographic location, could be an informal working name before the identifying number is assigned.

Data Administration
Entity Definition Report

Entity Name:	PLOT CLUSTER (cont'd)	Short Name:	PCLTR
---------------------	-----------------------	--------------------	-------

<< 1998-03-27-10:24 sourced from:346868:347180 >>

MEASMT INTERVAL	MEASMT INTERVAL	Y	NUMBER	2
-----------------	-----------------	---	--------	---

The time period, in years, between re-measurement of (permanent) samples or experimental plots. This is normally prescribed by the agency responsible for remeasurement, and reflects only the current value. (Original designed measurement intervals have sometimes been lengthened to reduce expense; e.g. EP. 703 was 3 years, and is now 6 years).

<< 1998-03-27-10:23 sourced from:346868:347166 >>

MEASMT STATUS CD	SAMPLE / PLOT STATUS	N	VARCHAR2	3
------------------	----------------------	---	----------	---

The status of the sample or experimental plot as it relates to remeasurement, active (ACT) or inactive (INA) or that the number has been reserved for the purpose of expected establishments. (In the latter case, to avoid the re-use of the same number).

<< 1998-03-27-10:24 sourced from:346868:347167 >>

MODIFY DATE	Y	DATE
-------------	---	------

<< 1998-03-27-10:23 sourced from:346868:347390 >>

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
----------------	-------------	---	----------	----

<< 1998-03-27-10:23 sourced from:346868:347389 >>

NEXT MEASMT YR	Y	NUMBER	4
----------------	---	--------	---

The year in which the next remeasurement is planned. This would normally be derived algorithmically based on the measurement interval (MEASMT INTERVAL) and the date the sample was established. However, there may be exigencies such as imminent destruction from timber harvesting operations that would override the derived year of next measurement.

Data Administration
Entity Definition Report

Entity Name:	PLOT CLUSTER (cont'd)	Short Name:	PCLTR
---------------------	-----------------------	--------------------	-------

In such cases, it is expectable that this be entered manually in a data maintenance screen.

This attribute will be the basis for reporting on remeasurement plans for future years.

<< 1998-03-27-10:24 sourced from:346868:347182 >>

NON BCGS MAP SYSTEM CD	NON BCGS MAP SYSTEM	Y	VARCHAR2	8
The map projection system if different from the BCGS UTM standard. A map projection system converts the earth convex surface to a flat map surface. The Datum (NAD) is the model of the earth's surface from which the projection is made.				

<< 1998-03-27-10:24 sourced from:346868:347183 >>

NON BCGS MAPSHEET ID	DESC 25	Y	VARCHAR2	25
A non-BCGS mapsheet identifier which would typically apply to samples or experimental plots residing outside of BC.				

<< 1998-03-27-10:24 sourced from:346868:347184 >>

NUMBER OF PLOTS AS DESIGNED	NUMBER OF PLOTS	Y	NUMBER	2,0
The number of plots at sample design time. Due to damage (or other reasons) to plots within a sample, the actual number of plots may differ.				

<< 1998-03-27-10:24 sourced from:346868:409403 >>

PHOTO X COORD	NUM 3	Y	NUMBER	3,0
The sample/plot coordinate position obtained from a medium scale aerial photograph.				

The medium scale aerial photograph coordinate position.

<< 1998-03-27-10:23 sourced from:346868:347391 >>

Data Administration
Entity Definition Report

Entity Name: PLOT CLUSTER (cont'd)			Short Name:	PCLTR
PHOTO Y COORD	NUM 3	Y	NUMBER	3,0
The sample/plot coordinate position obtained from a medium scale aerial photograph.				
The medium scale aerial photograph coordinate position.				
<< 1998-03-27-10:23 sourced from:346868:347392 >>				
* PLOT CLUSTER SKEY	SKEY 7	N	NUMBER	7,0
An system generated surrogate identifier for Investigation Unit.				
A! System generated				
<< 1998-03-27-10:23 sourced from:346868:346809 >>				
PROVINCE STATE CD	PROVINCE STATE	Y	VARCHAR2	2
The province or state in which the sample or experimental plot resides. The applicable list of provinces or states is to be updated on an as needed basis.				
<< 1998-03-27-10:24 sourced from:346868:347169 >>				
SAMPLE / EXP PLOT NUM	SAMPLE / PLOT NUM	N	VARCHAR2	4
The business assigned identifying number for a sample or experiment plot as applied in the field and retained on all paper and electronic records.				
Note that there is differing uses of term 'plot' between the inventory (sampling) and research (experiments) businesses.				
Both can be considered to be 'units of investigation', a sample is the biometric equivalent of an experimental plot.				
<< 1998-03-27-10:24 sourced from:346868:347168 >>				
SELECTION METHOD CD	SELECTION METHOD	N	VARCHAR2	5
The biometric practise (or method) used to locate a sample or experimental plot in the field. Typically, samples and experimental plots may have been located subjectively, that is a candidate stand is				

Entity Name:	PLOT CLUSTER (cont'd)	Short Name:	PCLTR
---------------------	-----------------------	--------------------	-------

identified in advance. Some measure of randomness may be applied for the actual location. Increasingly, there is more emphasis on random selection of the stand, and a successive random selection of a location in the stand (a PHASE).

<< 1998-03-27-10:23 sourced from:346868:347312 >>

SOIL PIT IND	INDICATOR DEFAULT N	N	VARCHAR2	1
An indication of a soil pit being located in the vicinity or the vicinity of a sample or experimental plot. (Usually experimental plots). This serves as a note that such data exists and may be found in paper files.				

<< 1998-03-27-10:24 sourced from:346868:347170 >>

STEM MAP IND	INDICATOR DEFAULT N	N	VARCHAR2	1
An indication of whether the sample or experimental plot was stem mapped. That is, the individual tree coordinates (locations) are collected. In this way, the inter-tree distances are known and tree growth models can reflect individual tree competition. Any new trees from later re-measurements should have coordinates collected.				

<< 1998-03-27-10:24 sourced from:346868:347171 >>

UTM EASTING CENTROID	UTM EASTING	Y	NUMBER	9,3
The X (easting) geographic coordinate of the geographic centre of the sample/plot configuration. Where there is a single location (i.e. one plot centre) of the sample/plot, the centroid would be the same as the UTM EASTING in CLUSTER ELEMT LOCN.				

Where there are multiple plot locations of a given sample/plot,

Entity Name:	PLOT CLUSTER (cont'd)	Short Name:	PCLTR
---------------------	-----------------------	--------------------	-------

this attribute would be derived as the geometric centroid of all the locations. It is expected that this will be of utility in GIS mapping locations.

The X coordinate of the sample/plot geometric centre.

<< 1998-03-27-10:23 sourced from:346868:347384 >>

UTM NORTHING CENTROID	UTM NORTHING	Y	NUMBER	10,3
-----------------------	--------------	---	--------	------

The Y (northing) geographic coordinate of the geographic centre of the sample/plot configuration. Where there is a single location (i.e. one plot centre) of the sample/plot, the centroid would be the same as the UTM EASTING in CLUSTER ELEMT LOCN.

Where there are multiple plot locations of a given sample/plot, this attribute would be derived as the geometric centroid of all the locations. It is expected that this will be of utility in GIS mapping locations.

The Y coordinate of the sample/plot geometric centre.

<< 1998-03-27-10:23 sourced from:346868:347385 >>

WEATHER STN IND	INDICATOR DEFAULT	N	VARCHAR2	1
-----------------	-------------------	---	----------	---

An indication of a weather station being located fro some period of time in the vicinity of a sample or experimental plot. (Usually to experimental plots). The station may not be currently active; this serves as a note that such data exists and may be found in paper files.

<< 1998-03-27-10:24 sourced from:346868:347172 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE located within one and only one TSB CD

Entity Name:	PLOT CLUSTER (cont'd)	Short Name:	PCLTR
---------------------	-----------------------	--------------------	-------

or MAY BE located within one and only one TSA CD
MAY BE 1 belonging to one or more PLOT CLUSTER ASSOCIATIONS
MAY BE 2 belonging to one or more PLOT CLUSTER ASSOCIATIONS
MAY BE assessed through one or more MEASMT VISITATIONS
MAY BE be subject of one or more QUALITY ASSURANCE ACTIVITIES
MAY BE creating one or more PROJECT ASSOCIATIONS
MAY BE further identified by one and only one INSTALLATION
MAY BE have one or more ROLE ASSOCIATIONS
MAY BE have one or more VISITATION NOTES
MAY BE located by one or more COORDINATE SETS
MAY BE located within one and only one ECO REGION
MAY BE located within one and only one MAPSHEET COMPONENT
MAY BE located within one and only one ORG UNIT
MAY BE located within one and only one RCL AREA VALIDN CD
MAY BE located within one and only one RCL AREA VALIDN CD
MAY BE located within one and only one REGULATED FOREST AREA
MAY BE located within one and only one STAND
MAY BE physically distributed across one or more POINT LOCATIONS
MUST BE created under the auspices of one and only one DESIGN SPECIFICATION
* = Relationships in primary unique identifier.

Unique Identifiers:

PCLTR1	Primary	Y
PLOT CLUSTER SKEY		

Notes:

A! The way this is modelled, a PLOT CLUSTER is created if a TREE is the investigation unit; not modelling TREE as an investigation unit as part of this project owing to difficult object-oriented type of relations.

<< 1998-03-27-10:23 sourced from:346868:346808 >>

Entity Name: PLOT CLUSTER ASSOCIATION				<i>Short Name:</i>	PCA
<i>Plural:</i>	PLOT CLUSTER ASSOCIATIONS				
<i>Init. Volume:</i>	250	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	2500
				<i>Annual Growth Rate:</i>	1%

Description:

The identification of a plot cluster being related to another plot cluster. All known circumstances would apply to a plot cluster type of a 'sample' (not an experiment).

This is expected to be one of two kinds; a sample is re-sampled, or a sample is associated with another as part of the design.

In the case of the former type, a sample is considered to be re-sampled rather than remeasured when there is no tree-tree correspondence between the two measurement visitations.

An example would be auditing, or re-visits to samples that were never intended to be remeasured and lack permanent tree identifiers (numbered tags).

In the case of the latter, there are some designs that 'pair' or associate samples on account of their proximity in differing stands but where the growing conditions are considered to be similar for comparative purposes. The Old Growth Site Index samples are an example.

This entity replaces a single recursive relationship in the GYD model to allow for relationships other than resampling. Another recursive relationship could be added to accomodate 'associated' samples, however the choice has been made to genericise this

Entity Name: PLOT CLUSTER ASSOCIATION (cont'd)

Short Name:PCA

relationship in the form of this entity should any other recursive situations unfold.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ASSOCIATION TYPE	PLOT CLUSTER ASSOCIATION	N	VARCHAR2	10

The reason a sample is associated with another another sample.

To date; the known reasons for a sample to sample association are:

-re-sampling of a sample (different from a re-measurement in that no tree to tree association is known between Measurement Visitations)

code value = REMEASMT

-the designed pairing of proximate samples usually in differing stands

code value = PAIRING

<< 1998-03-27-10:28 sourced from:346868:516335 >>

DESC	DESC 75	Y	VARCHAR2	75
------	---------	---	----------	----

A description of the sample association; additional qualifying conditions may be attached given the business volatility.

<< 1998-03-27-10:28 sourced from:346868:516338 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- * MUST BE 1 identified by one and only one PLOT CLUSTER
- * MUST BE 2 identified by one and only one PLOT CLUSTER

* = Relationships in primary unique identifier.

Unique Identifiers:

Entity Name: PLOT CLUSTER ASSOCIATION (cont'd)		Short Name:	PCA
PCA1	Primary	Y	
MUST BE 1 identified by one and only one PLOT CLUSTER			
MUST BE 2 identified by one and only one PLOT CLUSTER			
ASSOCIATION TYPE			

Notes:

<< 1998-03-27-10:28 sourced from:346868:516329 >>

Entity Name:	POINT LOCATION	Short Name:	PLOC
Plural:	POINT LOCATIONS		
Init. Volume:	9000	Avg. Volume:	45000
		Max. Volume:	90000
		Annual Growth Rate:	5%

Description:

A point in space used to identify a cluster element location or tree

that is being sampled by a plot cluster visitation.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* POINT LOCN SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-10:29 sourced from:346868:347775 >>				
AERIAL FLIGHT LINE ID		Y	VARCHAR2	20
<< 1998-03-27-10:29 sourced from:346868:555441 >>				
AERIAL PHOTO NUM		Y	VARCHAR2	3
<< 1998-03-27-10:29 sourced from:346868:555442 >>				
ASPECT BRG	ASPECT BRG	Y	NUMBER	3
The measure, to the nearest azimuth degree, of the topographic				
orientation of the site location.				
HH93_S PLOT_PL_ASPECT				
SEF_S CT0:48-50 ASPECT DEGREE				
SEF_C apply to CLUSTER_LOCATION '1' only				
If 'N' then = 0; 'NE' then = 45; 'E' then = 90;				
'SE' then = 135; 'S' then = 180; 'SW' then = 225;				
'W' then = 270; 'NW' then = 315				
<< 1998-03-27-10:29 sourced from:346868:346791 >>				
DESCRIPTION		Y	VARCHAR2	80
ELEVATION	ELEVATION	Y	NUMBER	4,0
LOCATION FILE ID		Y	VARCHAR2	10
LOCATION_TYPE_CD	POINT REFERENCE	Y	VARCHAR2	20
<< 1998-03-27-10:29 sourced from:346868:555417 >>				
MACRO SLOPE POS CD	MACRO SLOPE	Y	VARCHAR2	3
A code denoting the relative position of the sampling site within the				

Entity Name:

POINT LOCATION (cont'd)

Short Name:

PLOC

topographic scale perspective from mountain top to valley floor. The vertical distance is usually greater than 300m in most mountain regions. Also known as Macro Site Position.

Reference: "Describing Ecosystems in the Field", MOE Manual 11, Province of B.C., 1990, p. 31. FLMP

A! Uncollected for G&Y samples; anticipated for Pest Multi-level survey

<< 1998-03-27-10:29 sourced from:346868:346794 >>

MAGNETIC DECLINATION

NUM 3 1

Y

NUMBER

3,1

The magnetic declination recorded on Card 2 Rec 2 per Appendix E in the Vegetation Ground Sample manual.

<< 1998-03-27-10:29 sourced from:346868:562002 >>

MESO SLOPE POS CD

Y

VARCHAR2

3

A code denoting the relative position of the sampling site within a catchment area with the intent to be consistent within the scale of topography affecting surface water flow. The vertical difference is usually between 3 and 300m, and the surface area generally exceeds 0.5 has in size.

Also known as slope position, and meso site position.

Definition Source: "Describing Ecosystems in the Field", MOE Manual 11, Province of B.C. 1990, p. 31.

HH93_S PLOT_PL_SL_POS

Data Administration
Entity Definition Report

Entity Name:	POINT LOCATION (cont'd)	Short Name:	PLOC
---------------------	-------------------------	--------------------	------

HH93_C C=CRS, U=UP, M=MID, L=LOW, T=TOE, D=DEP, L=LVL

SEF_S CT2:77 SLOPE POSITION

A! No reply from Parminter/Lea of MOE

<< 1998-03-27-10:29 sourced from:346868:346793 >>

OFFSET BEARING TO POINT	AZIMUTH BRG	Y	NUMBER	3,0
<< 1998-03-27-10:29 sourced from:346868:555439 >>				

OFFSET HOR DIST TO POINT	DISTANCE METRE	Y	NUMBER	5,2
<< 1998-03-27-10:29 sourced from:346868:555440 >>				

ORIGIN BRG	AZIMUTH BRG	Y	NUMBER	3,0
------------	-------------	---	--------	-----

The bearing in azimuth degrees from the previous (next lower plot number) plot origin to the origin of this plot. If this is plot number 1 then the bearing is from the sample tie point. The origin for a circular plot is the centre.

A! Not in HH or SEF; provision made for later entry

<< 1998-03-27-10:29 sourced from:346868:346787 >>

ORIGIN DIST		Y	NUMBER	6,2
-------------	--	---	--------	-----

The distance, in metres, from the lower numbered CLUSTER ELEMENT LOCATION centre to the centre of the cluster.

A! Not in HH or SEf; provision made for later entry

<< 1998-03-27-10:29 sourced from:346868:346786 >>

PLOT NUM		Y	NUMBER	4
----------	--	---	--------	---

The business identifier for the location.

Ideally, this would be re-named to LOCATION ID and changed to a VARCHAR2 10 long datatype. The typical identification of 'plots' is numeric, though there is increasing use of character based identification such as 'N' for north etc.

POINT SEQ NUM	NUM 2	Y	NUMBER	2,0
---------------	-------	---	--------	-----

Entity Name:

POINT LOCATION (cont'd)

Short Name:

PLOC

<< 1998-03-27-10:29 sourced from:346868:555438 >>

POINT TYPE

POINT TYPE

N

VARCHAR2

10

The business purpose for establishing the plot center.

The known purposes are for a: plot center, a non-center point within a plot (e.g. soil pit, ecological assessment) and out of plot (e.g a proximate location selected for the pupose of being representative).

The auxilary plot, POINT TYPE domain value of 'AUX PLT CR' identifies an auxillary plot center which is really the same as any other plot center, domain value of 'PLOT CTR'. This semantic overloading is allowed for the purposes of transition from the development to the production environment. As a complete fix, a name attribute should be added to the POINT LOCATION VISITATION entity, so to identify the business data collection intent. E.g. BUSINESS PLOT NAME with values and meaning of:

- AUX, auxillay,
- MAIN, main
- INT, integrated
- SUB, subplot

<< 1998-03-27-10:29 sourced from:346868:555434 >>

POLYGON NUMBER

REF TREE HOR DIST TO POINT

DISTANCE METRE

Y

VARCHAR2

14

Y

NUMBER

5,2

<< 1998-03-27-10:29 sourced from:346868:555445 >>

REF TYPE

REF TYPE

Y

VARCHAR2

10

REFERENCE TREE BRG TO POINT

AZIMUTH BRG

Y

NUMBER

3,0

<< 1998-03-27-10:29 sourced from:346868:555443 >>

Data Administration
Entity Definition Report

Entity Name: POINT LOCATION (cont'd)			Short Name:	PLOC
REFERENCE TREE DBH	BH STANDARD	Y	NUMBER	4,2
<< 1998-03-27-10:29 sourced from:346868:555444 >>				
REF_NUM	NUM 6	Y	NUMBER	6
SLOPE PCT	SLOPE PCT	Y	NUMBER	3,0
The gradient, in percent, of the terrain at the site location.				
HH93_S PLOT_PL_SLOPE				
SEF_S CT0:51-53 SLOPE PCT				
SEF_C apply to CLUSTER_LOCATION '1' only				
<< 1998-03-27-10:29 sourced from:346868:346792 >>				
TO NEXT POINT BRG	AZIMUTH BRG	Y	NUMBER	3,0
<< 1998-03-27-10:29 sourced from:346868:555446 >>				
TO NEXT POINT HOR DIST	DISTANCE METRE	Y	NUMBER	5,2
<< 1998-03-27-10:29 sourced from:346868:555447 >>				
UTM EASTING	UTM EASTING	Y	NUMBER	9,3
UTM NORTHING	UTM NORTHING	Y	NUMBER	10,3
UTM OFFSET BEARING	AZIMUTH BRG	Y	NUMBER	3,0
UTM OFFSET DISTANCE	DISTANCE METRE	Y	NUMBER	5,2
UTM ZONE	UTM ZONE	Y	NUMBER	2,0
* = Attributes in primary unique identifier.				

Relationships:
Each Occurrence Of This Entity:

- MAY BE located by following one or more ACCESS NOTES
 - MAY BE located within one and only one MAPSHEET COMPONENT
 - MAY BE the reference point for one or more TREES
 - MAY BE the subject of one or more POINT LOCATION VISITATIONS
 - MUST BE a data collection point for one and only one PLOT CLUSTER
- * = Relationships in primary unique identifier.

Unique Identifiers:

PLOC1	Primary	Y
POINT LOCN SKEY		

Notes:

<< 1998-03-27-10:29 sourced from:346868:346784 >>

Entity Name:	POINT LOCATION VISITATION	<i>Short Name:</i>	CEV
<i>Plural:</i>	POINT LOCATION VISITATIONS		
<i>Init. Volume:</i>	9000	<i>Avg. Volume:</i>	45000
		<i>Max. Volume:</i>	150000
		<i>Annual Growth Rate:</i>	5%

Description:

A measurement event at the location where the plots (cluster elements) are located. There is an optional assessement of the plot stake, although it has only been a recent requirement of some permanent samples.

By explicitly representing this event, an association with changing specifications can be made. For example, if upon re-measurement, a new minimum tree diameter is utilized, in accordance with a prescribed standard determined since the last re-measurement, then the standard (specifications) becomes operative for a specific sample or plot at the time (event) it is actually measured.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
AZIMUTH BEARING	AZIMUTH BRG	Y	NUMBER	3,0
<< 1998-03-27-10:30 sourced from:346868:562011 >>				
* CE VISIT SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-10:30 sourced from:346868:347423 >>				
CMT	DESC 256	Y	VARCHAR2	256
Decriptive text associated with the assessment of the condition of the centre stake and any repairs to it.				
<< 1998-03-27-10:30 sourced from:346868:347197 >>				
LENGTH OBSERVED	DISTANCE METRE	Y	NUMBER	5,2
The portion of the Total Line Length from which data is gathered. There are discrete segments from which the data is gathered which are governed by field procedures				

Entity Name:	POINT LOCATION VISITATION (cont'd)	Short Name:	CEV
---------------------	------------------------------------	--------------------	-----

(rules).

Maybe the sum or two or more discontinous segments of
the Total Line Length.

From the replication perspective, the segments should be
recorded, and this has been noted to Verne Sundstrom,
responsible for the field sheet design. (96-05-01).

<< 1998-03-27-10:30 sourced from:346868:555484 >>

PARTIAL PLOT END BRG	AZIMUTH PARTIAL END	Y	NUMBER	3,0
<< 1998-03-27-10:30 sourced from:346868:561053 >>				

PARTIAL PLOT START BRG	AZIMUTH PARTIAL START	Y	NUMBER	3,0
<< 1998-03-27-10:30 sourced from:346868:561052 >>				

PLOT QUALIFIER CD	PLOT QUALIFIER	Y	VARCHAR2	2
<< 1998-03-27-10:30 sourced from:346868:555534 >>				

PLOT STAKE COND IND	INDICATOR DEFAULT Y	Y	VARCHAR2	1
---------------------	---------------------	---	----------	---

Flags the condition of the plot stake at the time of the visitation.

Y(es) means the plot was centre stake was undisturbed (OK),

N(o) means the plot centre stake was removed or otherwise disturbed.

<< 1998-03-27-10:30 sourced from:346868:347007 >>

PLOT TYPE CD	PLOT TYPE	Y	VARCHAR2	2
<< 1998-03-27-10:30 sourced from:346868:555524 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a measurement event of one and only one CLUSTER ELEMENT
- MAY BE described on one or more VISITATION NOTES
- MAY BE have one or more FIELD DATA BIT MAP IMAGES
- MAY BE located by one or more GPS FILES
- MAY BE subject to one or more ROLE ASSOCIATIONS
- MAY BE the data collection location and event for one or more CLUSTER ELMT MEASMTS
- MUST BE an event to assess one and only one POINT LOCATION

Entity Name:	POINT LOCATION VISITATION (cont'd)	<i>Short Name:</i>	CEV
---------------------	------------------------------------	--------------------	-----

MUST BE the location and occurance of one and only one MEASMT VISITATION
* = *Relationships in primary unique identifier.*

Unique Identifiers:

CEV1	<i>Primary</i>	Y
<i>CE VISIT SKEY</i>		

Notes:

<< 1998-03-27-10:30 sourced from:346868:347006 >>

Entity Name: POLYGON				<i>Short Name:</i>	PLY
<i>Plural:</i>	POLYGONS				
<i>Init. Volume:</i>	250000	<i>Avg. Volume:</i>	7500000	<i>Max. Volume:</i>	10000000
				<i>Annual Growth Rate:</i>	20%

Description:

In the vegetation inventory business context , the delination of an areal geometric feature (polygon) interpreted from medium scale aerial photography using a number of criteria based on appearence such as texture, grayness, color, forest stand density, stand height etc.

Data is collected by interpretation, observation and classification of homogenous units of land cover (including inland water bodies) with an emphasis on the vegetative component areas.

The classification of homogenous areas is typically applied to medium scale photography (1:10,000 to 1:20,000 scale).

There are differing standards and sources which are reflected in the DESIGN SPECIFICATION.

Definition source: p 4-2, VI Phase 1, Photo Interpretation Procedures

NB: this generic 'polygon' as opposed to 'vegetative cover polygon' permits the re-use for other themes

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
POLYGON ID		N	NUMBER	6
The business assigned unique identifier for a polygon. Typically this				

Entity Name:

POLYGON (cont'd)

Short Name:

PLY

has been uniquely assigned within a BCGS 6 X 12 Mapsheet.

<< 1998-03-26-17:21 sourced from:236464:506342 >>

* POLYGON SKEY

N

NUMBER

14,0

System generated UID from ORACLE sequence polygon_seq.

<< 1998-03-26-17:21 sourced from:236464:514490 >>

SILVICULTURAL OPENING NUM

Y

NUMBER

4,0

A unique number (by BCGS mapsheet) assigned to each 'opening' in the

forest caused by a disturbance.

Also note that the term 'opening' is not necessarily an opening of the forest canopy that would be visible from aerial photography, but refers to the opening of a record keeping file on the activity related to the polygon.

Definition Source; p.3-142 of the FIP Data Dictionary

<< 1998-03-26-17:21 sourced from:236464:508899 >>

FEATURE ID ORG UNIT

INT 32

Y

NUMBER

20

The province wide unique identifier for the occurrence of a spatial

object described by a Feature Code. This number is generated from the control entries in the Feature Id Number Control entity.

There are two pieces concatenated to form this identifier:

- Org Unit Id
- Sequence number for this Feature Code in this Org Unit.

Entity Name:

POLYGON (cont'd)

Short Name:

PLY

<< 1998-03-26-17:21 sourced from:236464:498258 >>

FEATURE ID SEQUENCE

INT 32

Y

NUMBER

20

The province wide unique identifier for the occurence of a spatial object described by a Feature Code. This number is generated from the control entries in the Feautre Id Number Control entity.

There are two pieces concatenated to form this identifier:

- Org Unit Id
- Sequence number for this Feature Code in this Org Unit.

<< 1998-03-26-17:21 sourced from:236464:498259 >>

CREATE DATE

N

DATE

The date of creation of the polygon record.

<< 1998-03-26-17:21 sourced from:236464:506731 >>

MODIFY DATE

Y

DATE

The date of modification of the polygon record.

<< 1998-03-26-17:21 sourced from:236464:506732 >>

CREATE USER ID

N

VARCHAR2

30

The user id that created the polygon record.

<< 1998-03-26-17:21 sourced from:236464:506733 >>

MODIFY USER ID

Y

VARCHAR2

30

The user id that last modified the polygon record.

<< 1998-03-26-17:21 sourced from:236464:506734 >>

BUSINESS CREATE DATE

Y

DATE

The date the business created the polygon record. This is separate from CREATE DATE which is the system assigned date retained for audit purposes. The BUSINESS CREATE DATE may differ in that it may be assigned off-line using a local platform which has no administrative control on the date field.

Entity Name: POLYGON (cont'd)

Short Name: PLY

Equivalent to the FIP INPUT DATE.

<< 1998-03-26-17:21 sourced from:236464:603386 >>

AREA	POLYGON AREA	N	NUMBER	10,3
The area of a polygon; usually derived from geographic information system processing software.				

<< 1998-03-26-17:21 sourced from:236464:506343 >>

SURFACE EXPRESSION CD	SURFICIAL MATERIAL	Y	VARCHAR2	2
The form of surficial material apparent on the medium scale photography. A simplified attribution is used owing to the likelihood that the trees will mask suficial features.				

Decription Source: p. 3-5, Photo Interpretation Procedures, Phase 1, May 14, 1996.

Data Value Source: Table 3-2, from Description Source

A_S! col. 15 VRI Att. (entry) form

<< 1998-03-26-17:21 sourced from:236464:592643 >>

MODIFYING NATURAL PROCESS CD	MODIFYING NATURAL PROCESS	Y	VARCHAR2	1
A natural mechanism of weathering, erosion and soil material deposition that result in the modification of surficial materials and landforms.				

Used for terrain classification, site classification, soil condition and identification of potential hazards such as avalanches, slope instability and flooding.

Entity Name:

POLYGON (cont'd)

Short Name:

PLY

Data Definition Source: p.3-7, Photo Interpretation Procedures, Phase 1, May 14, 1996

Data Value Source: Table 3-3, from Data Definition Source.

A_S! col.16 VRI Att. (entry) form

<< 1998-03-26-17:22 sourced from:236464:592644 >>

MESO SLOPE POSITION CD	MESO SLOPE	Y	VARCHAR2	1
------------------------	------------	---	----------	---

A code denoting the relative position of the sampling site within a catchment area with the intent to be consistent within the scale of topography affecting surface water flow. The vertical difference is usually between 3 and 300m, and the surface area generally exceeds 0.5 has in size.

Also known as slope position, and meso site position.

Definition Source: "Describing Ecosystems in the Field", MOE Manual 11, Province of B.C. 1990, p. 31.

A_S! col. 17 VRI Att. (entry form)

A! change domain to reflect the single letter version, C, M etc.

<< 1998-03-26-17:22 sourced from:236464:592645 >>

ALPINE DESIGNATION CD	ALPINE DESIGNATION	Y	VARCHAR2	1
-----------------------	--------------------	---	----------	---

The location of the land unit with respect to location and elevation.

Entity Name:

POLYGON (cont'd)

Short Name:

PLY

An interpretation is applied as to whether the tree unit is above or below the tree line, that is, the upper elevation limit of continuous tree, or potential tree if cut-over, cover.

If the land unit is above the the elevation line, a code of 'A' is applied, otherwise 'N', the default.

Description Source: p. 3-11, Photo Interpretation Procedures, Phase 1, May 14, 1996.

Data Value Source: Table 3-5, from Description Source

A_S! col.18 VRI Att. (entry) form

<< 1998-03-26-17:22 sourced from:236464:592646 >>

SOIL NUTRIENT REGIME CD

TROPHOTOPE

Y

VARCHAR2

1

A code to denote, on a relative scale, the available nutrient supply for plant growth. The soil's nutrient regime (trophotope) integrates many environmental and biotic parameters which, in combination, determine the actual amounts of available nutrients.

Definition Source: Reference: "Describing Ecosystems in the Field", MOE Manual 11, Province of B.C. 1990, p37-40

A_S! col. 19 VRI Att. (entry) form

<< 1998-03-26-17:22 sourced from:236464:592647 >>

LAYER SPP OCCUR CNT

Y

NUMBER

6,0

A count of the number of LAYER SPECIES records received when the file was forwarded and processed into the database.

Entity Name: POLYGON (cont'd)

Short Name: PLY

It is expected that this would only be populated from the source

VIFF file as no such attribute exists in the FIP file.

(Formerly in the VERSION AUDIT METADATA entity).

QUADRANT NUM	MAP QUADRANT	Y	NUMBER	1
--------------	--------------	---	--------	---

A 3' by 6' quarter portion of a 6' by 12' (nominally 1:20000)

mapsheet. Numbered from left to right bottom row, right ot left top

row.

<< 1998-03-26-17:22 sourced from:236464:508897 >>

SUBQUADRANT NUM	MAP QUADRANT	Y	NUMBER	1
-----------------	--------------	---	--------	---

A 1.5' by 3' quarter portion of a 3' by 6' (nominally 1:10000)

mapsheet. Numbered from left to right bottom row, right ot left top

row, nominally 1:5000 scale.

<< 1998-03-26-17:22 sourced from:236464:508898 >>

DATA SOURCE CD	INTERPRETATION DATA	Y	NUMBER	2
----------------	---------------------	---	--------	---

The source of the data that describes the polygon. This attribute has

been termed 'Ecology Data Source' in the VIFF file , though it is a

misnomer as this applies to the entire polygon.

<< 1998-03-26-17:22 sourced from:236464:786467 >>

COAST INTERIOR SOURCE CD	COAST INTERIOR SOURCE	Y	VARCHAR2	3
--------------------------	-----------------------	---	----------	---

The source of the assigned Coast Interior Cd for the polygon. There

are two possible sources:

-a direct assignment from the Region Compartment Letter association

with the Coast/Interior Cd where the polygon is wholly within a

Coastal or Interior area (RCL)

-an addtion of resultant areas where the polygon, or the Region

Entity Name: POLYGON (cont'd)

Short Name:PLY

Compartment Letter area in which it resides, bisects the

Coast/Interior 'boundary'.

It is expected that determining the Coast/Interior code would become

redundant on implementation of ecologically based tree volume

derivations.

<< 1998-03-26-17:22 sourced from:236464:786468 >>

DATA ENTRY SOURCE TYPE CD

FIP CARD SOURCE

Y

VARCHAR2

2

The historic codified record of the data source of FIP file data.

Retained as supplied from the FIP file.

Valid values are: CC, CF, CB, FA.

(Formerly in the Version Audit Metadata entity)

RESULTANT OCCUR CNT

Y

NUMBER

6,0

A count of the number of RESULTANT records received when the file was

forwarded and processed into the database.

(Formerly in VERSION AUDIT METADATA entity).

LAYER OCCUR CNT

Y

NUMBER

6,0

A count of the number of LAYER records received when the file was

forwarded and processed into the database.

Formerly in entity VERSION AUDIT METADATA.

HISTORY OCCUR CNT

Y

NUMBER

6,0

A count of the number of HISTORY records received when the file was

forwarded and processed into the database.

Entity Name: POLYGON (cont'd)

Short Name: PLY

(Formerly in the VERSION AUDIT METADATA entity).

FIP NON PRODUCTIVE DESC CD	FIP NON PRODUCTIVE	Y	VARCHAR2	5
----------------------------	--------------------	---	----------	---

Land that is incapable of supporting commercial forests. This maps
DESCRIPTOR
directly to the FIP attribute, NON PRODUCTIVE DESCRIPTOR and is
also utilized for the determination of the BC Land Cover
Classification.

This is a FIP classification based attribute only, and is retained
for the purposes of business transition from FIP to Vegetation
Inventory.

The current growth projection model, 'VDYP', requires this attribute
as a key input variable, and will continue to be utilized for
Vegetative Cover for the next two years.

There is no expectation that this attribute would be updated or
created under Vegetation Inventory classification practise. (97-06,
JH)

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- MAY BE a grouping of spatial element type one and only one FEATURE CLASS CD
- MAY BE created by one and only one VGIS PROJECT
- MAY BE further described by one or more INTERPRETATION SUBJECTS
- MAY BE further described by one or more SILVICULTURAL HISTORIES
- MAY BE spatially containing one or more GIS RESULTANTS
- MAY BE wholly assigned to one and only one COAST INTERIOR AREA
- MAY BE wholly assigned to one and only one COAST INTERIOR AREA
- MAY BE wholly assigned to one and only one OPERABLE AREA CD
- MUST BE created by one and only one VERSION AUDIT METADATA
- MUST BE identifying one and only one BC LAND COVER CLASSIFICATION CD
- MUST BE interpreted to one and only one DESIGN SPECIFICATION

* = Relationships in primary unique identifier.

Entity Name:	POLYGON (cont'd)	<i>Short Name:</i>	PLY
---------------------	------------------	--------------------	-----

Unique Identifiers:

PLY2	Primary	N
MUST BE created by one and only one VERSION AUDIT METADATA		
POLYGON ID		
PLY1	Primary	Y
POLYGON SKEY		

Notes:

<< 1998-03-26-17:21 sourced from:236464:498250 >>

Entity Name: PRODUCTIVITY PATHOLOGY				Short Name:	PRDPT
Plural:	PRODUCTIVITY PATHOLOGIES				
Init. Volume:	600	Avg. Volume:	3000	Max. Volume:	6000
				Annual Growth Rate:	5%

Description:

A specialized assessment of scars and mistletoe on trees of Productivity (E.P. 703) installations. Productivity tree measurement may have additional pathology information recorded using the Growth Pathology sub type.

Scars are assessed for each unequal tree portion as follows: the base, from germination point to breast height (1.3m); the middle,from breast height to one half total tree height; the top, from one half total tree height to the top.

For each tree portion scars are categorized as open or closed. For each category, scars are then further assessed for multiple or single occurrences.

The Mistletoe code is assigned by totalling the assessment of individual thirds (of equal size).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
BASE SCAR CD	PRODUCTIVITY TREE SCAR	Y	VARCHAR2	1

A code denoting the presence of scars in the base portion of the tree. The code also denotes the category of closure (open or closed) and the category of occurrences (single or multiple). The base portion of the tree is from germination point to breast height (1.3m).

HH93_S TR_MEAS_TM_S_BASE

SEF_S CT4:71 BASE

Data Administration
Entity Definition Report

Entity Name: PRODUCTIVITY PATHOLOGY (cont'd)				Short Name:	PRDPT
CONC THIRD CD	THIRDS COMBINATION	N	VARCHAR2	1	
The code to denote the combination of tree thirds for CONC.					
FORK_CROOK THIRD CD	THIRDS COMBINATION	N	VARCHAR2	1	
The code to denote the combination of tree thirds for FORKS or CROOKs.					
FROST_CRACK THIRD CD	THIRDS COMBINATION	N	VARCHAR2	1	
The code to denote the combination of tree thirds for FROST CRACKs.					
MID SCAR CD	PRODUCTIVITY TREE SCAR	Y	VARCHAR2	1	
A code denoting the presence of scars in the middle portion of the tree. The code also denotes the category of closure (open or closed) and an the category of occurrences (single or multiple). The base portion of the tree is from germination point to breast height (1.3m) to one half total tree height.					
HH93_S TR_MEAS_TM_S_MID					
SEF_S CT4:72 MID					
PROD DEAD_BRKN TOP CD	PROD DEAD_BRKN TOP	N	VARCHAR2	1	
The code to denote the combination of tree top.					
PROD MISTLETOE CD	PROD MISTLETOE	Y	NUMBER	1,0	
For trees measured on Productivity installations (E.P. 703) only, each third is individually assessed for mistletoe as follows: 0 no infection, one half or less of the branches are infected, or greater than one half of the branches are infected. The code represents the sum of the assessment of mistletoe by thirds.					
HH93_S TR_MEAS_TM_MISTLE					
HH93_C Load only if SAMPLE_TYPE_CD = 'M'					
SEF_S CT4:43 MISTLETOE					
SEF_S Load only if SAMPLE_TYPE_CD = 'M'					
TOP SCAR CD	PRODUCTIVITY TREE SCAR	Y	VARCHAR2	1	
A code denoting the presence of scars in the top portion of the tree.					

Entity Name:	PRODUCTIVITY PATHOLOGY (cont'd)	Short Name:	PRDPT
---------------------	---------------------------------	--------------------	-------

The code also denotes the category of closure (open or closed) and the category of occurrences (single or multiple). The base portion of the tree is from one half total tree height to the tree top.

HH93_S TR_MEAS_TM_S_TOP

SEF_S CT4:73 TOP

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

* MUST BE recorded for one and only one TREE MEASUREMENT

** = Relationships in primary unique identifier.*

Unique Identifiers:

PRDPT1	Primary	Y
<i>MUST BE recorded for one and only one TREE MEASUREMENT</i>		

Data Administration
Entity Definition Report

Entity Name: PROGRAM INITIATIVE				Short Name:	PROG
Plural:	PROGRAM INITIATIVES				
Init. Volume:	50	Avg. Volume:	100	Max. Volume:	500
				Annual Growth Rate:	5%

Description:

This parent business activity which initiates the implementation of

a Forest/Vegetation Inventory or other mensurational practice.

Four examples of known initiatives at this level are:

- Forest Inventory program, 1950-1995
- Vegetation Inventory program,1993 -on,
- Research Branch Experimental Plots, 1920 -on, and
- Research Branch acquisitions from external sources

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PROGRAM INITIATIVE SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				

Populated from the sequence, PRO_INIT_SEQ.

<< 1998-04-13-09:08 sourced from:236464:785618 >>

IDENTIFIER CD	N	VARCHAR2	10
A unique identifier code used by the business to describe a program initiative.			

Entity Name:	PROGRAM INITIATIVE (cont'd)	Short Name:	PROG
---------------------	-----------------------------	-------------	------

Expectable examples are:

- FIP (also a file format, but used to denote the period of forest inventory, 1950-1994, which includes processing and activities by FCAP, VDYP, IGDS (*.FC1) files etc.,
- VEG INV for all Vegetation Inventory practises
- RES EP, Research Branch Experimental Plots.

<< 1998-04-13-09:08 sourced from:236464:612250 >>

NAME	N	VARCHAR2	50
A non-abbreviated name used to describe a PROGRAM INITITIATIVE.			

<< 1998-04-13-09:08 sourced from:236464:612251 >>

DESCRIPTION	Y	VARCHAR2	256
A text description of the PROGRAM INITIATIVE.			

<< 1998-04-13-09:08 sourced from:236464:612252 >>

EFFECTIVE DATE	N	DATE	
The date when the Program Initiatives became effective and data collection was initiated.			

<< 1998-04-13-09:08 sourced from:236464:612253 >>

EXPIRY DATE	Y	DATE	
<< 1998-04-13-09:08 sourced from:236464:612254 >>			

* = Attributes in primary unique identifier.

Relationships:

Data Administration
Entity Definition Report

Entity Name:	PROGRAM INITIATIVE (cont'd)	<i>Short Name:</i>	PROG
---------------------	-----------------------------	--------------------	------

Each Occurrence Of This Entity:

- MAY BE enabled by one or more DESIGN SPECIFICATIONS
- MAY BE generated from one or more SEF INITIATIVE LOAD RULES
- MAY BE linked with one or more ROLE ASSOCIATIONS
- * = Relationships in primary unique identifier.

Unique Identifiers:

PROG1	Primary	Y
PROGRAM INITIATIVE SKEY		

Notes:

<< 1998-04-13-09:08 sourced from:236464:612244 >>

Entity Name:	PROJECT ASSOCIATION	<i>Short Name:</i>	PA
<i>Plural:</i>	PROJECT ASSOCIATIONS		
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	2%

Description:

The association of a project and the various data

collecting initiatives (DESIGN SPECIFICATION)

or primary collected data objects (POLYGON or PLOT CLUSTER).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PROJECT_ASSOC_SKEY	SKEY 14	N	NUMBER	14,0
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE resulting from one and only one PLOT CLUSTER

or MAY BE for one and only one DESIGN SPECIFICATION

MUST BE resulting from one and only one VGIS PROJECT

* = Relationships in primary unique identifier.

Unique Identifiers:

PA2	<i>Primary</i>	<i>N</i>
<i>MUST BE resulting from one and only one VGIS PROJECT</i>		
<i>MAY BE resulting from one and only one PLOT CLUSTER</i>		
<i>MAY BE for one and only one DESIGN SPECIFICATION</i>		
PA1	<i>Primary</i>	<i>Y</i>
<i>PROJECT_ASSOC_SKEY</i>		

Entity Name:	PROVINCIAL FOREST CD	<i>Short Name:</i>	PFC
<i>Plural:</i>	PROVINCIAL FOREST CDS		
<i>Init. Volume:</i>	200	<i>Avg. Volume:</i>	350
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	1%

Description:

A code used to identify a Provincial Forest as designated under

Section 5 of the Forest Act.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PROVINCIAL FOREST SKEY	SKEY 7	N	NUMBER	7,0
System generated UID from ORACLE sequence prov_forest_cd_seq. << 1998-03-26-17:23 sourced from:236464:549497 >>				
PROVINCIAL FOREST NUM CD		N	NUMBER	5
A numeric code designating the Provincial Forest. << 1998-03-26-17:23 sourced from:236464:549500 >>				
DESCRIPTION		Y	VARCHAR2	75
A description, usually name, of the Provincial Forest. << 1998-03-26-17:23 sourced from:236464:549501 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE spatially containing one or more GIS RESULTANTS
* = Relationships in primary unique identifier.

Unique Identifiers:

PFC2	Primary	N
PROVINCIAL FOREST NUM CD		
PFC1	Primary	Y
PROVINCIAL FOREST SKEY		

Notes:

<< 1998-03-26-17:23 sourced from:236464:549491 >>

Entity Name: PRUNING TREATMENT				<i>Short Name:</i>	PT
<i>Plural:</i>	PRUNING TREATMENTS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	3000
				<i>Annual Growth Rate:</i>	1%
<i>Subtype of:</i>	TREATMENT				

Description:

The event of removing lower tree branches in order

to limit the prevalence of knots and thereby increase the

value of sawn wood.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
LIFT DIAMETER		Y	NUMBER	4,1
The upper bole diameter specification to which all trees within the				
plot are pruned.				
<< 1998-03-26-16:04 sourced from:7003:232996 >>				
LIFT LENGTH		N	NUMBER	3,1
The upper height specification to which trees within				
a plot are pruned.				
<< 1998-03-26-16:04 sourced from:7003:232997 >>				
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-26-16:04 sourced from:7003:232608 >>

Entity Name:	QUALITY ASSURANCE ACTIVITY			<i>Short Name:</i>	QAA
<i>Plural:</i>	QUALITY ASSURANCE ACTIVITIES				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	2500
				<i>Annual Growth Rate:</i>	5%

Description:

A data quality assurance activity performed against a plot cluster.

<i>Attributes:</i>					
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	
* QA ACTIVITY SKEY		N	NUMBER	7,0	
System Gnerated UID from ORACLE sequence qa_activity_seq.					

<< 1998-03-26-16:04 sourced from:7003:537203 >>

DATE PERFORMED	Y	DATE	
<< 1998-03-26-16:04 sourced from:7003:537204 >>			

ACTIVITY TYPE	QA ACTIVITY TYPE	Y	VARCHAR2	20
A code indicatiing the type of Quality Assurance activity performed.				

<< 1998-03-26-16:04 sourced from:7003:561982 >>

CMT	Y	VARCHAR2	256
<< 1998-03-26-16:05 sourced from:7003:537205 >>			

DATA CATEGORY	VEG SAMPLE DATA	Y	VARCHAR2	15
The general category of data to which the Rule applies. The				

Vegetation Inventory business has loosely defined two categories of data collection, office checking and responsibilty roles: the tree based data (tree measurements) and the 'ecology' based data, a euphanism for everything else, e.g. forage, succession, interpretation, ecosystem details, range vegetation etc.

This categorization is ad hoc, and this attributive implementation is also just as temporary. If the business decides not to categorize the

Entity Name: QUALITY ASSURANCE ACTIVITY (cont'd)

Short Name: QAA

field data collection so loosely, then there is no need for this attribute.

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE performed for one and only one PLOT CLUSTER
or MAY BE affirming the data collected one and only one MEASMT VISITATION
MAY BE undertaken by one or more ROLE ASSOCIATIONS
* = *Relationships in primary unique identifier.*

Unique Identifiers:

QAA1	Primary	Y
QA ACTIVITY SKEY		

Notes:

<< 1998-03-26-16:04 sourced from:7003:537197 >>

Entity Name:	QUALITY ASSURANCE ASSOCIATION	Short Name:	QAN
Plural:	QUALITY ASSURANCE ASSNS		
Init. Volume:	1000	Avg. Volume:	5000
		Max. Volume:	10000
		Annual Growth Rate:	

Description:

The association of quality assurance comments to business objects.

Quality assurance scope would apply to a mapsheet, a version, a text file or a graphics text file pair. Attribution of status, STATUS CD has been added.

The comments may be persistent over many versions, as the quality assurance items may or may not be dealt with on subsequent update and processing.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* QA ASSN SKEY		N	NUMBER	14
CREATE DATE		N	DATE	
The date the quality assurance comments were associated with a version of a graphics file or text file. This may be the date that comments were created anew (in Quality Assurance Comment), or the date that persistent comments of a past version were re-attributed to a new version.				
<< 1998-03-25-16:59 sourced from:416792:432470 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-25-16:59 sourced from:416792:492795 >>				
CREATE USER ID		Y	VARCHAR2	30
The user id of that created the quality assurance comments.				
<< 1998-03-25-16:59 sourced from:416792:432471 >>				
MODIFY USER ID		Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492796 >>				

Entity Name: QUALITY ASSURANCE ASSOCIATION (cont'd)

Short Name:QAN

QA STATUS CD

QUALITY ASSURANCE STATUS

Y

VARCHAR2

3

The staus of a quality assurance comment; expected values are:

ACT meaning active,

INA meaning inactive.

<< 1998-03-25-16:59 sourced from:416792:711164 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE describing one and only one GRAPHICS FILE VERSION

or MAY BE describing one and only one THEME VERSION

or MAY BE describing one and only one GRAPHICS TEXT FILE PAIR

or MAY BE describing one and only one TEXT FILE VERSION

or MUST BE describing the context for one and only one MAPSHEET COMPONENT

MAY BE the subject of an activity by one and only one ROLE ASSOCIATION

MUST BE describing one and only one QUALITY ASSURANCE COMMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

QAN1

QA ASSN SKEY

Primary

Y

Notes:

<< 1998-03-25-16:59 sourced from:416792:418284 >>

Data Administration
Entity Definition Report

Entity Name: QUALITY ASSURANCE COMMENT				<i>Short Name:</i>	QACMT
<i>Plural:</i>	QUALITY ASSURANCE COMMENTS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	5000	<i>Max. Volume:</i>	10000
				<i>Annual Growth Rate:</i>	

Description:

The comments noted during quality assurance processes.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* QA COMMENT SKEY		N	NUMBER	7,0
The surrogate indentifier of a quality assurance comment.				
<< 1998-03-25-16:59 sourced from:416792:432472 >>				
QA ANNOTATION		N	VARCHAR2	256
Quality assurance comments and queries that are meant to retained as				
encountered during processing of the FIP and graphics file.				
<< 1998-03-25-16:59 sourced from:416792:421431 >>				
CREATE DATE		N	DATE	
The date the quality assurance annotation was made.				
<< 1998-03-25-16:59 sourced from:416792:421314 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-25-16:59 sourced from:416792:492797 >>				
CREATE USER ID		N	VARCHAR2	30
The author of the quality assurance notes/comments.				
<< 1998-03-25-16:59 sourced from:416792:421313 >>				
MODIFY USER ID		Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492798 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE the source comments for one or more QUALITY ASSURANCE ASSNS
MAY BE the subject of an activity by one and only one ROLE ASSOCIATION
* = Relationships in primary unique identifier.

Unique Identifiers:

QACMT1	Primary	Y
QA COMMENT SKEY		

Notes:

Data Administration
Entity Definition Report

Entity Name:	QUALITY ASSURANCE COMMENT (cont'd)	Short Name:	QACMT
---------------------	------------------------------------	--------------------	-------

<< 1998-03-25-16:59 sourced from:416792:418278 >>

Entity Name: RANGE UNIT CD				<i>Short Name:</i>	RUC
<i>Plural:</i>	RANGE UNIT CDS				
<i>Init. Volume:</i>	1300	<i>Avg. Volume:</i>	1300	<i>Max. Volume:</i>	5000
				<i>Annual Growth Rate:</i>	2%

Description:

Stock Range, Range Unit, and Range Pasture are used to summarize

general range management activities, forage activity. range

utilization, invader/weed species inventory, etc.

The designation of these administrative units is a

hierarchy of associated range administration units as follows:

- Stock Range, a gazetted area that is the highest administrative

level containing,
- Range Unit, a management area used to prescribe the numbers

and kinds of livestock that the land can support, containing,
- Range Pasture, the smallest range management area authorized for

livestock grazing.

At initial system implementation, this entity will contains the

latter two units as the source data has been organized to support the

hierarchy. The Stock Range Units will be retained in a separate

entity, STOCK RANGE CD, because the source data has not been

structured.

This table is structured such that other units, by other names

including the Stock Units, if and when associated, can be added to

represent the hierarchial structure.

Entity Name: RANGE UNIT CD (cont'd)

Short Name: RUC

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* RANGE UNIT CD SKEY	SKEY 7	N	NUMBER	7,0

System generated UID from ORACLE sequence range_cd_seq.

<< 1998-03-26-17:23 sourced from:236464:435067 >>

UNIT NAME	N	VARCHAR2	10
-----------	---	----------	----

The name of the Range Unit (e.g. Range, Stock, Pasture).

July 3, 1997

This attribute addresses the hierarchical nature of administrative

RANGE UNITS.

<< 1998-03-26-17:23 sourced from:236464:435071 >>

UNIT BUSINESS ID	N	NUMBER	8,0
------------------	---	--------	-----

The numeric "code" used to identify a Business Unit.

e.g. For the Business Unit "Stock Range", a value of "605' represents

"Barker".

<< 1998-03-26-17:23 sourced from:236464:435072 >>

DESCRIPTION	Y	VARCHAR2	75
-------------	---	----------	----

A description of the Range Unit Business Id.

<< 1998-03-26-17:23 sourced from:236464:547032 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a subdivision of one and only one RANGE UNIT CD

MAY BE comprised of one or more RANGE UNIT CDS

MAY BE spatially containing one or more GIS RESULTANTS

* = Relationships in primary unique identifier.

Unique Identifiers:

RUC1	Primary	Y
RANGE UNIT CD SKEY		

Notes:

<< 1998-03-26-17:23 sourced from:236464:434389 >>

Entity Name: RANGE VEGETATION MEASUREMENT				Short Name:	VRM
Plural:	RANGE VEGETATION MEASMTS				
Init. Volume:	1000	Avg. Volume:	2000	Max. Volume:	5000
Annual Growth Rate:	1%				
Subtype of:	NON TREE ELEMENT ASSMT				

Description:

The collection of the abundance of forage shrubs. These are often assessed by their occurence along a transect.

This is a near total associative entity; this relates to multiple occurences of horizontal distances, with repect to Phenology, Shrub Layer and Shrub Species (all code table foreign key references).

Attrites:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* RANGE MEASMT SKEY		N	NUMBER	7
System generated UID from ORACLE sequence FORAGE_SHRUB_MEASMT_SEQ.				
<< 1998-03-26-16:08 sourced from:7003:537262 >>				
ITEM NUM		N	NUMBER	2,0
The field collection assigned number of the occurence of the abundance of a shrub.				
<< 1998-03-26-16:08 sourced from:7003:400035 >>				
PHENOLOGY IDENTIFIER		Y	VARCHAR2	2
The phenology observed for the species identified.				
This identifier must be procedurally verified against the Pehnology codes as the specific species recorded will inherit the set of valid phenologies from the Phyllum were the definitions were made.				
<< 1998-03-26-16:08 sourced from:7003:564373 >>				

Entity Name:

RANGE VEGETATION MEASUREMENT (cont'd)

Short Name:

VRM

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE assessed by one or more TRANSECT COVERAGES

MUST BE stratified by one and only one VEGETATION LAYER CD

* = Relationships in primary unique identifier.

Unique Identifiers:

VRM1	Primary	Y
RANGE MEASMT SKEY		

Notes:

<< 1998-03-26-16:08 sourced from:7003:400026 >>

Data Administration
Entity Definition Report

Entity Name: RCL AREA VALIDN CD			<i>Short Name:</i>	RCLVC
<i>Plural:</i>	VGIS RCL AREA VALIDN CODES			
<i>Init. Volume:</i>	5500	<i>Avg. Volume:</i>	5500	<i>Max. Volume:</i> 6000
			<i>Annual Growth Rate:</i>	0%

Description:

The list of valid combinations of Region, Compartment and Compartment Letter. These identify areal units by which the forest inventory was traditionally summarized.

Also included is the mapping to the larger, broadly climatic in nature , Forest Inventory Zone (FIZ).

The Region, Compartment and Compartment Letter combination also serves as three of the six compound indentifiers of the business key of a sample as used by the Growth and Yield Section, Inventory Branch.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* RCL AREA VALIDN SKEY	SKEY 7	N	NUMBER	7,0
A surrogate key identifier for the combination of Region, Compartment Number and Compartment Letter.				
<< 1998-03-25-16:00 sourced from:346868:347116 >>				
INV REGION NUM	REGION NUM	N	NUMBER	2,0
A number assigned to a geographic entity of the province of BC used to reference Inventory Branch samples. It forms part of business key.				
<< 1998-03-25-16:00 sourced from:346868:347137 >>				
COMPT NUM	COMPARTMENT NUM	N	NUMBER	3,0
A number assigned to a geographic subdivision of Region. Compartment Number forms an integral component of the Inventory Branch business key used to identify samples. This would also be known as the 'Compartment'.				

Data Administration
Entity Definition Report

Entity Name:	RCL AREA VALIDN CD (cont'd)	<i>Short Name:</i>	RCLVC
---------------------	-----------------------------	--------------------	-------

A? Check BD

<< 1998-03-25-16:00 sourced from:346868:346985 >>

Entity Name: REGULATED FOREST AREA			<i>Short Name:</i>	RFA
<i>Plural:</i>	REGULATED FOREST AREAS			
<i>Init. Volume:</i>	1872	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i> 2000
			<i>Annual Growth Rate:</i>	0%

Description:

A code set table of identifiers originally assigned to a regulated area of forestry practice, Tree Farms, Tree Farm Licences and Public Sustained Yield Units. The use of the identifier has since been expanded to identify wood lots, parks, recreation areas, conservancies, and ecological reserves. Source for the codes is the document "Standards and Procedures for the Acquisition of Forestry Inventory Data', 1990 Inventory Branch.

Data Custodian, Data Administrator, Inventory Branch

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DESCRIPTION	DESC 50	N	VARCHAR2	50
A name and/or associated tenure type and licence number of the special cruise area.				
<< 1998-03-25-16:00 sourced from:346868:346849 >>				
* RFA SKEY	SKEY 7	N	NUMBER	7,0
A system-generated number used to uniquely identify the row.				
In the past, this number has been created by taking:				
special cruise number * 10 + special cruise sub code				
but it should not be assumed that this will ALWAYS be the case:				
i.e. this skey should not be interpreted as an 'intelligent key'.				
<< 1998-03-25-16:00 sourced from:346868:349017 >>				
SPECIAL CRUISE NUMBER		N	NUMBER	4,0
An identifier originally assigned to a regulated area of forestry practise (ie. Tree Farms, Tree Farm Licences and Public Sustained Yield Units). The use of the identifier has since been expanded to				

Entity Name: REGULATED FOREST AREA (cont'd)

Short Name: RFA

identify WoodLots, Parks, Recreation areas, Conservancies and

Ecological reserves.

<< 1998-03-25-16:00 sourced from:346868:346848 >>

SPECIAL CRUISE SUB CODEY NUMBER1

<< 1998-03-25-16:00 sourced from:346868:349016 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE containing one or more THEME AREA SUMMARIES
MAY BE geographically containing one or more PLOT CLUSTERS
MAY BE spatially containing one or more GIS RESULTANTS
* = Relationships in primary unique identifier.

Unique Identifiers:

RFA2PrimaryN

SPECIAL CRUISE NUMBER

SPECIAL CRUISE SUB CODE

RFA1PrimaryY

RFA SKEY

Notes:

<< 1998-03-25-16:00 sourced from:346868:346847 >>

Entity Name: ROLE			<i>Short Name:</i> ROLE	
<i>Plural:</i> ROLES				
<i>Init. Volume:</i> 500	<i>Avg. Volume:</i> 500	<i>Max. Volume:</i> 1000	<i>Annual Growth Rate:</i> 2%	

Description:

A part that a person or agency exercises in a specific business activity.

It is recognized that this is a subjective area, but the intent is to retain a unequivocal and a single Code and Description for a given role.

Prudence in the form of good data administration practise is in order to retain a meaningful subset of business applicable verbs.

Examples of Roles, (that can be used to populate Role Description, Role Code are;

- Custodian code= CUSTODIAN
- Originator code= ORIGINATOR
- Initiator code= INITIATOR
- Releasor (if this is separate from originator) code= RELEASOR
- Author code= AUTHOR
- Contact code= CONTACT
- Contract administrator code= CON ADMIN
- Forest license Holder code= FOR LIC HL
- Updater code= UPDATER
- Aerial photography interpreter code= AIR INTRP
- Owner code= OWNER

Data Administration
Entity Definition Report

Entity Name: ROLE (cont'd)	<i>Short Name:</i>	ROLE
-----------------------------------	--------------------	------

-Next field measurement responsibility (e.g. sample remeasurement) --

applies to Growth and Yield permanent samples when the next

measurement visition is known

code= NMEAS RSPN

-Field data collection responsibilty code= DMEAS RSPN --

role from vegetation Inventory Sample field sheet #1

-Field data measurement collector code= DATA COLLR

Added by RGH 10/2/99

-Client code= CLIENT

-Requestor code= REQUEST

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ROLE SKEY The system generated unique identifier.	SKEY 7	N	NUMBER	7,0
ROLE CD A codified form of a description of a role. << 1998-03-25-16:59 sourced from:416792:422516 >>		N	VARCHAR2	10
ROLE DESC The verb, or qualified verb, that best describes the role. << 1998-03-25-16:59 sourced from:416792:422517 >>		N	VARCHAR2	50
ROLE COMMENT Any comments, typically for data administration purposes, that are relevant to providing further description of the role, when or how to use a particular role, or any distinctions that should be made between other roles. << 1998-03-25-16:59 sourced from:416792:422518 >>		Y	VARCHAR2	75

Entity Name:	ROLE (cont'd)	Short Name:	ROLE
CREATE DATE	N DATE		
<< 1998-03-25-16:59 sourced from:416792:492799 >>			
MODIFY DATE	Y DATE		
<< 1998-03-25-16:59 sourced from:416792:492800 >>			
CREATE USER ID	N VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:492801 >>			
MODIFY USER ID	Y VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:492802 >>			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE defining one or more ROLE ASSOCIATIONS
* = Relationships in primary unique identifier.

Unique Identifiers:

ROLE2	Primary	N
ROLE CD		
ROLE1	Primary	Y
ROLE SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:422510 >>

Entity Name: ROLE ASSOCIATION				<i>Short Name:</i>	ROLA
<i>Plural:</i>	ROLE ASSOCIATIONS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	5000	<i>Max. Volume:</i>	15000
				<i>Annual Growth Rate:</i>	2%

Description:

The relationship of a person, agency who has a defined part, activity or responsibility.

The initial intent is that this would apply to projects, custodial responsibilities but could be utilized to enforce security on a geographic basis. That is, although there may be update priveledge for users, it could be limited to a geographic extent, such as Forest District.

This was formerly named OBJECT ASSOCIATIONS, but was changed to retain a narrower scope. Geographic associations have been separated into their own entity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ROLE ASSN SKEY		N	NUMBER	7,0
The surrogate identifier of an Agency with a Role.				
System generated from an Oracle sequence, ROLE SEQ				
<< 1998-03-25-16:59 sourced from:416792:432486 >>				
EFFECTIVE DATE		Y	DATE	
The effective date of association of a business objects and their purpose.				
<< 1998-03-25-16:59 sourced from:416792:422525 >>				
END DATE		Y	DATE	
The end date of association of a business objects and their purpose.				

Entity Name:	ROLE ASSOCIATION (cont'd)	Short Name:	ROLA
---------------------	---------------------------	--------------------	------

<< 1998-03-25-16:59 sourced from:416792:422526 >>

CREATE DATE	Y	DATE
The system create date for audit purposes.		

<< 1998-03-25-16:59 sourced from:416792:492763 >>

MODIFY DATE	Y	DATE
The system modify date for audit purposes.		

<< 1998-03-25-16:59 sourced from:416792:492764 >>

CREATE USER ID	Y	VARCHAR2	30
The system create user id for audit purposes.			

<< 1998-03-25-16:59 sourced from:416792:492765 >>

MODIFY USER ID	Y	VARCHAR2	30
The system modify user id for audit purposes.			

<< 1998-03-25-16:59 sourced from:416792:492766 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE participating in one and only one VGIS AGENCY
- or MAY BE determined by one and only one PERSON
- or MAY BE determined by one and only one AGENCY PERSON ASSOCIATION
- MAY BE assigned to one and only one MEASMT VISITATION
- MAY BE assigned to one or more QUALITY ASSURANCE ASSNS
- MAY BE assigned to one or more QUALITY ASSURANCE COMMENTS
- MAY BE assigned to one or more THEME AREA SUMMARIES
- MAY BE assigned to perform one and only one QUALITY ASSURANCE ACTIVITY
- MAY BE associated with one and only one CLUSTER ELMT MEASMT
- MAY BE belonging to one and only one BUSINESS RULE
- MAY BE belonging to one and only one DATA FORMAT
- MAY BE custodian for one and only one SPECIES GROUP DEFINITION
- MAY BE defined for one and only one PROGRAM INITIATIVE
- MAY BE defining an activity for one and only one CONTRACT
- MAY BE defining an activity for one and only one GRAPHICS FILE VERSION
- MAY BE defining an activity for one and only one MAPSHEET COMPONENT
- MAY BE defining an activity for one and only one PLOT CLUSTER
- MAY BE defining an activity for one and only one POINT LOCATION VISITATION
- MAY BE defining an activity for one and only one THEME
- MAY BE defining an activity for one and only one THEME VERSION
- MAY BE defining an activity for one and only one VGIS PROJECT
- MAY BE determined by one and only one ROLE

Data Administration
Entity Definition Report

Entity Name:	ROLE ASSOCIATION (cont'd)	Short Name:	ROLA
---------------------	---------------------------	--------------------	------

* = Relationships in primary unique identifier.

Unique Identifiers:

ROLA1	Primary	Y
ROLE ASSN SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:422519 >>

Entity Name: SAMPLE PHOTO		<i>Short Name:</i>	PHTO
<i>Plural:</i>	SAMPLE PHOTOS		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

A photograph taken of an area of a sample during the plot measurement.

Currently the types of photographs taken within VRI Ground

Sampling are are:

PLOT PIN for the Plot Centre PIN;

RANDOM AZIMUTH for the direction from the IPC randomly chosen for

CWD and Range sampling;

REPRESENTATIVE for a representative photograph of the sample

ADDITIONAL for additional photographs of the sample.

The attribution of the entity could be expanded to included the actual photograph in a GIF or JPEG format, but that has not been done since the photograph itself is not stored in the database currently.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
SUBJECT		N	VARCHAR2	14
The Subject of the Sample Photograph.				
COLLECTION IND	INDICATOR	N	VARCHAR2	1
DESCRIPTION	DESC 256	Y	VARCHAR2	256

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE taken during one and only one MEASMT VISITATION

* = Relationships in primary unique identifier.

Entity Name: SAMPLING CERTIFICATION				<i>Short Name:</i>	CERT
<i>Plural:</i>	SAMPLING CERTIFICATIONS				
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	1000	<i>Max. Volume:</i>	1500
				<i>Annual Growth Rate:</i>	10%

Description:

A recording of the sampling specialities that a person assigned to a

Veg Sample crew has been certified in.

eg soil sampling, entomology.....

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* CERTIFICATION DATE		N	DATE	
<< 1998-03-26-16:09 sourced from:7003:561342 >>				
CERTIFICATION MODULES		Y	VARCHAR2	50
A list of the certification modules acquired.				
<< 1998-03-26-16:09 sourced from:7003:561343 >>				
* CERTIFICATION TYPE	SAMPLE CERTIFICATION	N	VARCHAR2	10
A code descibing the type of certification received. A person may be				
certified to perform many types of Vegetative sample procedures.				
<< 1998-03-26-16:09 sourced from:7003:561344 >>				
<i>Allowable Values of Attribute</i>				
E	Ecological Certified			
N	NVAF certified			
T	Timber Certified			
CREATE DATE		N	DATE	
<< 1998-03-26-16:09 sourced from:7003:561338 >>				
CREATE USER ID		N	VARCHAR2	30
<< 1998-03-26-16:09 sourced from:7003:561339 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-26-16:09 sourced from:7003:561340 >>				
MODIFY USER ID		Y	VARCHAR2	30
<< 1998-03-26-16:09 sourced from:7003:561341 >>				
* = Attributes in primary unique identifier.				

Entity Name:	SAMPLING CERTIFICATION (cont'd)	<i>Short Name:</i>	CERT
---------------------	---------------------------------	--------------------	------

Relationships:

Each Occurrence Of This Entity:

- * MUST BE possessed by one and only one PERSON
- * = Relationships in primary unique identifier.

Unique Identifiers:

CERT1	Primary	Y
MUST BE possessed by one and only one PERSON		
CERTIFICATION TYPE		
CERTIFICATION DATE		

Notes:

<< 1998-03-26-16:09 sourced from:7003:561332 >>

Entity Name:	SECTION	Short Name:	SEC
Plural:	SECTIONS		
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:

Description:

A portion of a felled tree created by bucking (sectioning) a log into prescribed intervals. Sections may be created at regular intervals, or where breaks, forks or at other junctions.

Attributes:			
<u>Name</u>	<u>Domain</u>	<u>Opt</u> <u>Format</u>	<u>Length</u>
* SECTION SKEY		N NUMBER	7,0
The system generated surrogate identifier.			
BUSINESS ID		N NUMBER	5,0
The business identifier of the Section; typically numbered sequentially from one at the start of the section.			
START POSITION	TREE HEIGHT 5 3	N NUMBER	5,3
The originating location of the stem. The expectation is that this would be 0.0 for main stems (boles) but a higher value for secondary (fork sourced) stems			
END POSITION	TREE HEIGHT 5 3	N NUMBER	5,3
The terminating location of the stem. The expectation is that this would be the highest most cross section.			
FORK IND	INDICATOR DEFAULT N	N VARCHAR2	1
The idenfication of a section which is part of a fork in the tree.			
'Y' means a section with a fork, 'N' means a section without a fork.			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a member of one or more DESIGN SECTION ASSNS

MAY BE a portion of one or more STEMS

MAY BE assessed by one or more SECTION END ASSMTS

MAY BE assessed for one or more TREE VOLUME LOSS INDICATORS

MAY BE measured one or more SECTION END DIAMETERS

* = Relationships in primary unique identifier.

Unique Identifiers:	
SEC1	Primary Y

SECTION SKEY

Entity Name: SECTION END ASSMT		<i>Short Name:</i>	SEAS
<i>Plural:</i>	SECTION END ASSMTS		
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

The assessment of WOOD ANOMALY BODies from the reference at a SECTION
END (typically the upper end).

Individual assessments are of the planar dimension of the cross
section of the decay/stain bodies, and of the longitudinal distance
from the section end to the 'top' of the decay body to the 'bottom'.

Physically, this entity could be considered to be the section end
with assessments (measurements) referenced from it.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
TO DECAY TOP DISTANCE		Y	NUMBER	6,2
The distance from the Section Top, which can be considered to be the measurement reference plane, (ie. in the vertical tree orientation) to the Top of the wood anomaly body (typically decay).				
When the section face bisects a decay body, this measurement would be 0.0.				
TO DECAY BOTTOM DISTANCE		Y	NUMBER	6,2
The distance from the Section Top, which can be considered to be the measurement reference plane, (ie. in the vertical tree orientation) to the Bottom of the wood anomaly body (typically decay).				
When the decay/stain body is longer than the section, this measurement would be equal to the section length.				
CS INNER BREADTH		Y	NUMBER	6,2

Entity Name:	SECTION END ASSMT (cont'd)	<i>Short Name:</i>	SEAS
---------------------	----------------------------	--------------------	------

The longest distance of the 'inner' side of a decay cross section.

The 'inner' term is in all likelihood semantically overloaded, but is left as is to facilitate data transference and business understanding.

- for 'solid' decay (i.e. a void- true story), there are only 'inner' based dimensions of breadth and width,

-for 'ring shake' decay (i.e. delaminated annual growth) there are both 'inner' and 'outer' sets of breadth and width.

CS INNER WIDTH	Y	NUMBER	6,2
----------------	---	--------	-----

The shortest distance of the 'inner' side of a decay cross section.

The 'inner' term is in all likelihood semantically overloaded, but is left as is to facilitate data transference and business understanding.

- for 'solid' decay (i.e. a void- true story), there are only 'inner' based dimensions of breadth and width,

-for 'ring shake' decay (i.e. delaminated annual growth) there are both 'inner' and 'outer' sets of breadth and width.

CS OUTER BREADTH	Y	NUMBER	6,2
------------------	---	--------	-----

The longest distance of the 'outer' side of a decay cross section.

The 'outer' term is in all likelihood semantically overloaded, but is left as is to facilitate data transference and business understanding.

Entity Name:	SECTION END ASSMT (cont'd)	<i>Short Name:</i>	SEAS
---------------------	----------------------------	--------------------	------

- for 'solid' decay (i.e. a void- true story), there are only 'inner'

based dimensions of breadth and width,

-for 'ring shake' decay (i.e. delaminated annual growth) there are

both 'inner' and 'outer' sets of breadth and width.

CS OUTER WIDTH	Y	NUMBER	6,2
----------------	---	--------	-----

The shortest distance of the 'outer' side of a decay cross section.

The 'outer' term is in all likelihood semantically overloaded, but is

left as is to facilitate data transference and business

understanding.

- for 'solid' decay (i.e. a void- true story), there are only 'inner'

based dimensions of breadth and width,

-for 'ring shake' decay (i.e. delaminated annual growth) there are

both 'inner' and 'outer' sets of breadth and width.

DISCRETE PROPORTION PCT	PERCENTAGE 100	Y	NUMBER	3,0
-------------------------	----------------	---	--------	-----

The occularly estimated percentage of discreteness of comingled

decay bodies. A fully discrete (or Separate, in business terms)

decay body would have a value of 100%, Mixed decay bodies would have a

lesser percentage value.

Note that the identification of which particular decay bodies are

comingled is not determinable from the collected business data. Only

the level of discreteness with unknown other decay bodies is recorded.

** = Attributes in primary unique identifier.*

Data Administration
Entity Definition Report

Entity Name:	SECTION END ASSMT (cont'd)	<i>Short Name:</i>	SEAS
---------------------	----------------------------	--------------------	------

Relationships:

Each Occurrence Of This Entity:

- * MUST BE belonging to one and only one SECTION
- * MUST BE belonging to one and only one WOOD ANOMALY BODY
- * = Relationships in primary unique identifier.

Unique Identifiers:

SEAS1	Primary	Y
<i>MUST BE belonging to one and only one SECTION</i>		
<i>MUST BE belonging to one and only one WOOD ANOMALY BODY</i>		

Entity Name:	SECTION END DIAMETER			<i>Short Name:</i>	SED
<i>Plural:</i>	SECTION END DIAMETERS				
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>		

Description:

The measurement of a SECTION END for diameter. Typically diameter is measured at perpendicular directions and an average to characterize a single occurence. Also, inside and outside bark measurements may be taken, depending on the data collection activity.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
SECTION DIAM SKEY	SKEY 7	N	NUMBER	7,0
DIAMETER	TREE DIAMETER 4 1	N	NUMBER	4,1
The diameter measured at a section end of a tree in destructivley sampled tree.				
BARK INCLUSION CD	BARK INCLUSION	N	VARCHAR2	2
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE observed for one and only one SECTION

* = Relationships in primary unique identifier.

Data Administration
Entity Definition Report

Entity Name: SEF INITIATIVE LOAD RULE			<i>Short Name:</i>	SILR
<i>Plural:</i>	SEF INITIATIVE LOAD RULES			
<i>Init. Volume:</i>	701	<i>Avg. Volume:</i>	1500	<i>Max. Volume:</i> 2000
			<i>Annual Growth Rate:</i>	5%

Description:

A cross reference that maps a set of determinant values to a single occurrence of an INVESTIGATION INITIATIVE.

The determinants are either SEF data items or database table columns generated at UPLOAD time.

The table implemented from this entity will be used by the BUSINESS RULE that generates the INVESTIGATION INITIATIVE skey before insertion of a record into PLOT CLUSTERS.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SEF INIT LOAD SKEY System generated UID.	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-12:55 sourced from:346868:362400 >>				
REGION		Y	VARCHAR2	2
<< 1998-03-27-12:55 sourced from:346868:362389 >>				
COMPARTMENT		Y	VARCHAR2	3
<< 1998-03-27-12:55 sourced from:346868:362392 >>				
COMPARTMENT LETTER		Y	VARCHAR2	1
<< 1998-03-27-12:55 sourced from:346868:362393 >>				
INSTALLATION		Y	VARCHAR2	3
<< 1998-03-27-12:55 sourced from:346868:362394 >>				
SAMPLE NO		Y	VARCHAR2	4
<< 1998-03-27-12:55 sourced from:346868:362395 >>				
SAMPLE TYPE		Y	VARCHAR2	1
SEF Sample Type data element.				

Entity Name: SEF INITIATIVE LOAD RULE (cont'd)

Short Name: SILR

<< 1998-03-27-12:55 sourced from:346868:362324 >>

MEASUREMENT NO

Y VARCHAR2

3

<< 1998-03-27-12:55 sourced from:346868:362397 >>

SAMPLE STATUS

INV SAMPLE STATUS

Y VARCHAR2

1

<< 1998-03-27-12:55 sourced from:346868:362398 >>

AGENCY

INV AGENCY TYPE CD

Y VARCHAR2

1

<< 1998-03-27-12:55 sourced from:346868:362399 >>

DATA OWNER

INV DATA OWNER CD

Y VARCHAR2

4

SEF Data Owner data element.

CT1 76-78.

<< 1998-03-27-12:55 sourced from:346868:362325 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MUST BE resolves to one and only one PROGRAM INITIATIVE

* = Relationships in primary unique identifier.

Unique Identifiers:

SILR1

Primary Y

SEF INIT LOAD SKEY

Notes:

<< 1998-03-27-12:55 sourced from:346868:362301 >>

Entity Name:	SEF RECTANGULAR PLOT LOAD RULE			<i>Short Name:</i>	SRPLR
<i>Plural:</i>	SEF RECTANGULAR PLOT LOAD RULES				
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100	<i>Max. Volume:</i>	125
				<i>Annual Growth Rate:</i>	5%

Description:

A cross reference that maps a set of determinat values to a SPATIAL
DELIMITER with the required length and width.

The determinant values may be SEF data elements directly coded

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SEF_PLOT_LOAD_SKEY	SKEY 7	N	NUMBER	7,0
System generated UID.				
<< 1998-03-27-12:55 sourced from:346868:362321 >>				
REGION		Y	VARCHAR2	2
SEF REGION data element				
<< 1998-03-27-12:55 sourced from:346868:362313 >>				
COMPARTMENT		Y	VARCHAR2	3
SEF Compartment Data Element.				
<< 1998-03-27-12:55 sourced from:346868:362314 >>				
COMPARTMENT LETTER		Y	VARCHAR2	1
SEF Compartment Letter data element.				
<< 1998-03-27-12:55 sourced from:346868:362315 >>				
INSTALLATION		Y	VARCHAR2	3
SEF Installation data element.				
<< 1998-03-27-12:55 sourced from:346868:362316 >>				
SAMPLE NO		Y	VARCHAR2	4
SEF Sample No. data element.				
<< 1998-03-27-12:55 sourced from:346868:362317 >>				
SAMPLE TYPE		Y	VARCHAR2	1

Data Administration
Entity Definition Report

Entity Name:	SEF RECTANGULAR PLOT LOAD RULE (cont'd)	Short Name:	SRPLR
SEF Sample Type data element.			

<< 1998-03-27-12:55 sourced from:346868:362318 >>

MEASUREMENT NO	Y	VARCHAR2	3
SEF Measurement No. data element.			

<< 1998-03-27-12:55 sourced from:346868:362323 >>

DATA OWNER	Y	VARCHAR2	4
The SEF representation taken from CT1:Col 76 - Data Owner.			

<< 1998-03-27-12:55 sourced from:346868:383550 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE defines one and only one FIXED AREA PLOT
MAY BE interpreted by one and only one DESIGN SPECIFICATION
* = Relationships in primary unique identifier.

Unique Identifiers:

SRPLR1	Primary	Y
SEF_PLOT_LOAD_SKEY		

Notes:

<< 1998-03-27-12:55 sourced from:346868:362307 >>

Entity Name: SEF SUBPOP TDC LOAD RULE			Short Name: SEFSCLR
Plural:	SEF SUBPOP TDC RULES		
Init. Volume:	200	Avg. Volume:	500
		Max. Volume:	1000
Annual Growth Rate:			
Subtype of:	SEF SUBPOPULATION LOAD RULE		

Description:

The combination of attributes from the Inventory Branch, Growth and Yield Section, Standard Edit File (SEF) that are used to determine the

subpopulation that a tree diameter class belongs to for the purpose of data loading. (Subpopulation is defined in terms of minimum and maximum diameter and/or height, alive and/or dead trees, species group etc.)

The need for this is that the database makes a specific relationship of a tree diameter class to a subpopulation, while the SEF does not. Also, the database attribution is explicit and much of this data is being captured for the first time as it formerly resided in sample procedure manuals.

These rules are applied on loading the SEF data to the database, other formats may not need such a conversion table, or there may be cause to create another similar table if the source data is as semantically embedded as the SEF format.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-27-12:56 sourced from:346868:348778 >>

Entity Name: SEF SUBPOP TREE LOAD RULE			Short Name: SEFSTLR
Plural:	SEF SUBPOP TREE LOAD RULES		
Init. Volume:	300	Avg. Volume:	500
		Max. Volume:	1200
Annual Growth Rate:			
Subtype of:	SEF SUBPOPULATION LOAD RULE		

Description:

The combination of attributes from the Inventory Branch, Growth and Yield Section, Standard Edit File (SEF) that are used to determine the

subpopulation that a tree measurement belongs to for the purpose of data loading. (Subpopulation is defined in terms of minimum and maximum diameter and/or height, alive and/or dead trees, species group etc.)

The need for this is that the database makes a specific relationship of a tree measurement to a subpopulation, while the SEF does not. Also, the database attribution is explicit and much of this data is being captured for the first time as it formerly resided in sample procedure manuals.

These rules are applied on loading the SEF data to the database, other formats may not need such a conversion table, or there may be cause to create another similar table if the source data is as semantically embedded as the SEF format.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DIAM BREAK PT		Y	NUMBER	4,1
The minimum tree diameter of the larger plot of a sample. Smaller size proximate or nested plots, 'subplots', would have a maximum diameter or the Diameter Break Point less 0.1 cm.				

Entity Name:	SEF SUBPOP TREE LOAD RULE (cont'd)	Short Name:	SEFSTLR
---------------------	------------------------------------	--------------------	---------

A CT2, pos. 49 Standard Edit File (SEF) attribute.

<< 1998-03-27-12:56 sourced from:346868:348801 >>

MIN DBH	Y	NUMBER	4,1
---------	---	--------	-----

As a component of a rule, the minimum diameter of the tree as it maps to a subpopulation. The subpopulation minimum diameter is equivalent, but subpopulation also contains references to live/dead trees, species groups etc.

<< 1998-03-27-12:56 sourced from:346868:348787 >>

MAX DBH	Y	NUMBER	4,1
---------	---	--------	-----

As a component of a rule, the maximum diameter of the tree as it maps to a subpopulation. The subpopulation maximum diameter is equivalent, but subpopulation also contains references to live/dead trees, species groups etc.

<< 1998-03-27-12:56 sourced from:346868:348788 >>

HT TAG LIMIT	Y	NUMBER	4,2
--------------	---	--------	-----

The minimum tree height of the larger plot of a sample. Smaller size proximate or nested plots, 'subplots', would have a maximum height of the Height Tag Limit less 0.1 cm. Identical in purpose to Diameter Break Point with the difference of referencing height.

A CT2, pos. 75 Standard Edit File (SEF) attribute.

<< 1998-03-27-12:56 sourced from:346868:348811 >>

HT SOURCE CD	Y	CHAR	1
--------------	---	------	---

The source of the tree height as it referenced on the Standard Edit File (SEF). Known valid values refer to Measured, Estimated and Curve fitted.

Entity Name: SEF SUBPOP TREE LOAD RULE (cont'd)

Short Name:SEFSTLR

Directly references CT4, pos. 33.

<< 1998-03-27-12:56 sourced from:346868:348789 >>

MIN TREE HTY NUMBER4,2

As a component of a rule, the minimum height of the tree as it maps to a subpopulation. The subpopulation minimum height is equivalent, but subpopulation also contains references to live/dead trees, species groups etc.

<< 1998-03-27-12:56 sourced from:346868:348790 >>

MAX TREE HTY NUMBER4,2

As a component of a rule, the maximum height of the tree as it maps to a subpopulation. The subpopulation maximum height is equivalent, but subpopulation also contains references to live/dead trees, species groups etc.

<< 1998-03-27-12:56 sourced from:346868:348791 >>

AGENCY TYPE CDY CHAR1

The Agency, or more correctly, an agency category referenced on the Standard Edit File (SEF). This will have a bearing on the subpopulation of trees that was selected at the time of sample measurement.

Identical to CT 1, pos. 30.

<< 1998-03-27-12:56 sourced from:346868:348792 >>

* = Attributes in primary unique identifier.

Unique Identifiers:

SEFSTLR2Primary N

MIN DBH

Notes:

<< 1998-03-27-12:56 sourced from:346868:348775 >>

Data Administration
Entity Definition Report

Entity Name: SEF SUBPOPULATION LOAD RULE			Short Name:	SEFSLR
Plural:	SEF SUBPOP LOAD RULES			
Init. Volume:	1000	Avg. Volume:	3000	Max. Volume: 4500
			Annual Growth Rate:	

Description:

A collection of data values, obtained from SEF cards, that uniquely identifies a subpopulation of trees or tree diameter classes.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
AGENCY TYPE CD		Y	VARCHAR2	1
DIAM BREAK PT		Y	NUMBER	4,1
HT SOURCE CD		Y	VARCHAR2	1
HT TAG LIMIT		Y	NUMBER	4,2
MAX DBH		Y	NUMBER	4,1
MAX TREE HT		Y	NUMBER	4,2
MIN DBH		Y	NUMBER	4,1
MIN TREE HT		Y	NUMBER	4,2
SEFSLR TYPE		N	VARCHAR2	10
* SEF SUBPOP LOAD RULE SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-12:56 sourced from:346868:348793 >>				
FROM YEAR		N	NUMBER	4
The first inclusive year the rule for determining the subpopulation.				
The first year the rule for determining the subpopulation was effective.				
<< 1998-03-27-12:56 sourced from:346868:348782 >>				
TO YEAR		N	NUMBER	4
The last inclusive year in which a rule for the determining the subpopulation or trees or tree diameter classes was in effect.				
The last year in which a rule for the subpopulation was in effect.				
<< 1998-03-27-12:56 sourced from:346868:348783 >>				
SAMPLE TYPE CD		N	CHAR	1
A category of program or inititative that sponsored the establishment of the sample. Equivalent to the Standard Edit File (SEF) sample type ,				
all card records, position 14.				

Entity Name:	SEF SUBPOPULATION LOAD RULE (cont'd)	Short Name:	SEFSLR
---------------------	--------------------------------------	--------------------	--------

<< 1998-03-27-12:56 sourced from:346868:348784 >>

FROM MEASMT NO	N	NUMBER	2
----------------	---	--------	---

The lower inclusive value to identify a range of

measurement visitations to which the subpopulation rules apply.

Equivalent to all card types, pos. 15.

<< 1998-03-27-12:56 sourced from:346868:348785 >>

TO MEASMT NO	N	NUMBER	2
--------------	---	--------	---

The upper inclusive value to identify a range of

measurement visitations to which the subpopulation rules apply.

Equivalent to all card types, pos. 15.

The upper inclusive value to identify a range of measurement numbers.

<< 1998-03-27-12:56 sourced from:346868:348786 >>

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

- MAY BE defines dead metric DBH class one and only one SUBPOPULATION
- MAY BE defines imperial DBH class one and only one SUBPOPULATION
- MAY BE defines metric DBH class one and only one SUBPOPULATION
- MAY BE defines one and only one SUBPOPULATION
- MAY BE resolved by one or more SUBPOP EDIT PARMS

** = Relationships in primary unique identifier.*

Unique Identifiers:

SEFSLR2	Primary	N
---------	---------	---

- FROM YEAR
- TO YEAR
- SAMPLE TYPE CD
- FROM MEASMT NO
- TO MEASMT NO
- MIN TREE HT
- AGENCY TYPE CD
- DIAM BREAK PT
- HT SOURCE CD
- HT TAG LIMIT
- MAX DBH
- MAX TREE HT

SEF SUBPOP TREE LOAD RULE

Entity Name:	SELECTION METHOD			<i>Short Name:</i>	SEL
<i>Plural:</i>	SELECTION METHODS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	150	<i>Max. Volume:</i>	175
				<i>Annual Growth Rate:</i>	3%

Description:

The selection method of either individual elements, such

as trees, tree heights, tree ages etc. or groups of elements for the

determination of mean height and age.

Examples of methods would be :

- subjective, with 1 dominant, 2 co-dominant ratio
- Top Height 1985
- Top Height 1992
- Random
- Unknown
- Subjective

Examples of methods would be:

- characterization of stand/layer height
- characterization of height/diameter relationship.

The method of selecting elements for further data

collection (e.g. heights, ages) has not been heretofore recorded as

explicit data, though it does exist in manual instructions and is

implied in the sampling process.

Tree heights are particularly problematic in that one or more

selection purposes may occur at a given sample measurement, e.g.

Entity Name: SELECTION METHOD (cont'd)

Short Name:

SEL

characterization of mean stand height,

characterization of a complete height/diameter relationship.

Later, in the determination of mean height, these subjectively selected heights (ie. METHOD) may be included in a more rigorous round of selction (e.g. METHOD= Top Height).

It is anticipated that the corresponding Representative Indicator on the detailed AGE ASSESSMENTS and HEIGHT ASSESSMENTS will indicate, post-data collection, which individual age and height values are to be included in calculating means and/or calibrating curves.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SELECTION SKEY	SKEY 7	N	NUMBER	7,0
System generated surrogate identifier.				
METHOD CD	CHAR 8	N	VARCHAR2	8
A code used to represent the selection method.				

- Expected values as of 09/97 are:
- 1DOM2COD - 1 dominant, 2 co-dominant
 - TOP85 - Top Height 1985
 - TOP92 - Top Height 1992
 - RANDOM - Random
 - UNKN - Unknown
 - SUBJ -Subjective

Entity Name: SELECTION METHOD (cont'd)

Short Name: SEL

<< 1998-04-13-09:10 sourced from:346868:586630 >>

METHOD DESC	DESC 50	N	VARCHAR2	50
A description of the selection method.				

<< 1998-04-13-09:10 sourced from:346868:586634 >>

CREATE DATE	N	DATE
<< 1998-04-13-09:10 sourced from:346868:586635 >>		

CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-04-13-09:10 sourced from:346868:586636 >>				

MODIFY DATE	Y	DATE
<< 1998-04-13-09:10 sourced from:346868:586637 >>		

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-04-13-09:10 sourced from:346868:586639 >>				

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE applied to one or more AUGMENTED ASSESSMENT ACTIVITIES
MAY BE defining the selection criteria for one or more AGE STATISTICAL ESTIMATES
MAY BE occuring for one or more HT STATISTICAL ESTIMATES
* = Relationships in primary unique identifier.

Unique Identifiers:

SEL2	Primary	N
METHOD CD		
SEL1	Primary	Y
SELECTION SKEY		

Notes:

04-sep-97 JRT

- this entity consolidates a domain (SELECTION CD) and some attributes used to describe the method of selecting a tree for age and height measurement.

<< 1998-04-13-09:10 sourced from:346868:586624 >>

Data Administration
Entity Definition Report

Entity Name:	SERAL STAGE CLASS CD	Short Name:	SSCC
Plural:	SERAL STAGE CLASS CDS		
Init. Volume:	9	Avg. Volume:	20
		Max. Volume:	50
		Annual Growth Rate:	

Description:

The successional stage of a forest ecosystem as it grows from initial establishment to stable climax state.

The codes, definitions and age criteria are meant to be ported from Table 7-23 of the Vegetation Inventory Sampling Standards.

Defined as a code table rather than an attribute on account of potential relationships to BGC Zonal Classification CD and the extra attribution afforded.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SERAL STAGE CD	<< 1998-03-26-16:10 sourced from:7003:235468 >>	N	VARCHAR2	2
STAGE CLASS NAME	Short name ore description used to describe and/or identify a stage class cd.	Y	VARCHAR2	30
	<< 1998-03-26-16:10 sourced from:7003:547897 >>			
SERAL STAGE DEFINITION	Textual definition of the seral stage.	N	VARCHAR2	256
	<< 1998-03-26-16:10 sourced from:7003:235469 >>			
AGE CRITERIA	The age range and conditions which contribute to the definition of a seral stage	Y	VARCHAR2	75
	<< 1998-03-26-16:10 sourced from:7003:235470 >>			
AGE CRITERIA FOOTNOTE		Y	VARCHAR2	256

Entity Name: SERAL STAGE CLASS CD (cont'd)

Short Name: SSCC

Textual footnotes for the further qualification of age

criteria.

Could be partially implemented as a relationship to BGC

Zonal Classfn CD, however, it is not known that the degree

of rigor it would impose would be useful.

<< 1998-03-26-16:10 sourced from:7003:235471 >>

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE the subject of one or more SUCCESSION INTERPRETATIONS
* = *Relationships in primary unique identifier.*

Unique Identifiers:

SSCC1	Primary	Y
SERAL STAGE CD		

Notes:

<< 1998-03-26-16:10 sourced from:7003:235462 >>

<< 1998-03-26-15:21 sourced from:7003:547058 >>

Entity Name:	SEVERITY RATING ATTRIBUTE	<i>Short Name:</i>	SRA
<i>Plural:</i>	SEVERITY RATING ATTRIBUTES		
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000
		<i>Max. Volume:</i>	3000
		<i>Annual Growth Rate:</i>	

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SEVERITY ATTR SKEY		N	NUMBER	7
System generated UID from ORACLE sequence Ver_Cover_seq.				

<< 1998-03-26-15:21 sourced from:7003:547431 >>

ATTRIBUTE NAME	N	VARCHAR2	25
Name of the attribute to be collected.			

eg. Severity Code

Hawesworth Rating Code

<< 1998-03-26-15:21 sourced from:7003:547432 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE recorded for one or more DAMAGE OCC ATTR VALUES
 - MAY BE validated against one or more SEVERITY ATTRIBUTE VALUES
 - MUST BE coded for one and only one SEVERITY RATING DEFINITION
- * = Relationships in primary unique identifier.

Unique Identifiers:

SRA1	Primary	Y
SEVERITY ATTR SKEY		

Notes:

<< 1998-03-26-15:21 sourced from:7003:547050 >>

Entity Name:	SEVERITY RATING DEFINITION			<i>Short Name:</i>	SRD
<i>Plural:</i>	SEVERITY RATING DEFINITIONS				
<i>Init. Volume:</i>	10	<i>Avg. Volume:</i>	20	<i>Max. Volume:</i>	25
			<i>Annual Growth Rate:</i>		

Description:

A grouping of the attributes that are recorded as damage Severity for

a tree during a tree measurement visit.

<i>Attributes:</i>					
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>	
* RATING CD		N	VARCHAR2	8	
A code to represent the Severity Rating Definition.					
Examples would be 'SEVCODE' to represent Severity Codes as describes					
in the Vegetation Ground Sample Procedures Appendix C.					

<< 1998-03-26-15:21 sourced from:7003:547424 >>

DESCRIPTION	Y	VARCHAR2	256
Business defiend text that describes the source and use of a Severity			
Rating Definition.			

<< 1998-03-26-15:21 sourced from:7003:547425 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE composed of one or more SEVERITY RATING ATTRIBUTES

MAY BE used by one or more DAMAGE AGENT VEG SAM VERSIONS

* = Relationships in primary unique identifier.

<i>Unique Identifiers:</i>	
SRD1	Primary Y
RATING CD	

Notes:

<< 1998-03-26-15:21 sourced from:7003:547044 >>

Entity Name: SILVICULTURAL HISTORY				<i>Short Name:</i>	SH
<i>Plural:</i> SILVICULTURAL HISTORIES					
<i>Init. Volume:</i>	10000	<i>Avg. Volume:</i>	12000	<i>Max. Volume:</i>	15000
				<i>Annual Growth Rate:</i>	20%

Description:

The history of the stand as it pertains to recorded silvicultural activities and natural biological agents (e.g. damage agents).

Also termed 'silvicultural' history which implies human activities which is not always the case.

Applicable to both the FIP and Vegetation Inventory data collection practises.

This entity, its attributes and the data contained within it are subject to review as to whether it should be retained as a Resource Inventory Branch data collection activity under the Vegetation Invenotry initiative. It should be noted that this may in time, belong to the Silviculture practise and captured under another theme. However, the transition and the disposition of the legacy (FIP) data may take a considerable period, and therefore requires accomodation in this application.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SILV HISTORY SKEY	SKEY 7	N	NUMBER	7,0
A surrogate key identifier of SILVICULTURAL HISTORY.				

A! a surrogate key was choosen as the unique identifier to ease the proprogation of the UID through foreign key relationships FROM this entity as almost all the attributes and the relationship top

Entity Name:	SILVICULTURAL HISTORY (cont'd)	Short Name:	SH
---------------------	--------------------------------	--------------------	----

VEGETATION COVER CLASSIFICATON would be require to uniquely identify
an occurance.

<< 1998-03-26-17:25 sourced from:236464:309800 >>

ACTIVITY START YEAR

Y DATE

The year the silvicultural activity began.

If the Activity End Year is the same, the occurence transpired in the
same year.

*A_S! the supplied occurence of a comma between years means a
discontinous occurence (that is two separate occurences. The supply
of a dash between years means a range and separate and larger value
for Activity End Year*

*A! also need a rule to default Start Year and End Year the same for
an single year occurence.*

A! also need a rule to enforce End Year is = or > Start Year.

<< 1998-03-26-17:25 sourced from:236464:309123 >>

ACTIVITY END YEAR

Y DATE

The year the silvicultural activity ended.

*A_S! the supplied occurence of a comma between years means a
discontinous occurence (that is two separate occurences. The supply
of a dash between years means a range and separate and larger value
for Activity End Year*

Entity Name: SILVICULTURAL HISTORY (cont'd)

Short Name:SH

A! also need a rule to default Start Year and End Year the same for an single year occurence.

A! also need a rule to enforce End Year is = or > Start Year.

<< 1998-03-26-17:25 sourced from:236464:309124 >>

SEVERITY LEVEL CD

SILV HISTORY

Y NUMBER

3

The severity level of the damage agent (insect and diseases mainly).

INFESTATION SEVERITY

- 1 light
- 2 moderate
- 3 heavy
- 4 past occurence

<< 1998-03-26-17:25 sourced from:236464:309125 >>

DISTURBANCE PCT

PERCENTAGE 100

Y NUMBER

3,0

The percentage of the area of a stand layer or stand that has been

disturbed. Represents the unit values where the practise has been to

codify the midpoint of a 10% range to a single value representing

units of 10, e.g.

- 1 is the midpoint in 10's of 1 to 15,
- 2 is the midpoint in 10's of 16 to 25 etc.

A_S! convert the 10's mid point value to a percent

e.g. 1 to 10, 2 to 20 etc.

<< 1998-03-26-17:25 sourced from:236464:309126 >>

ADJOINING MAP NUM

Y VARCHAR2

8

The adjoining or adjacent NTS or BCGS map number by which the

history component is identified.

Entity Name: SILVICULTURAL HISTORY (cont'd)

Short Name: SH

<< 1998-03-26-17:25 sourced from:236464:432555 >>

OPENING NUM

Y NUMBER

4,0

A business identifier of the silvicultural opening number. Uniquely assigned for a 6 x 12 BCGS mapsheet.

<< 1998-03-26-17:25 sourced from:236464:433878 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE an activity record for one and only one TREE LAYER
or MAY BE an activity record for one and only one POLYGON
MAY BE recorded for one and only one DAMAGE AGENT CD FCAP VERSION
or MAY BE described by one and only one SILVICULTURE ACTIVITY CD
MAY BE composed of one or more PLANTATION TREE SPP COMPS
* = Relationships in primary unique identifier.

Unique Identifiers:

SH1

Primary Y

SILV HISTORY SKEY

Notes:

<< 1998-03-26-17:25 sourced from:236464:309115 >>

Entity Name: SILVICULTURE ACTIVITY CD				<i>Short Name:</i>	SLVC
<i>Plural:</i>	SILVICULTURE ACTIVITY CDS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	150	<i>Max. Volume:</i>	500
				<i>Annual Growth Rate:</i>	4%

Description:

A 3 level code defined and maintained by Silviculture Branch that

defines their activites;

component parts are:

base cd

technique cd

method

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DESCRIPTION		Y	VARCHAR2	50
<< 1998-03-26-11:50 sourced from:236464:433880 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE shown on one or more SILVICULTURAL HISTORIES

* = Relationships in primary unique identifier.

Notes:

!A 17 jan 97 JRT - further definition is required to determine if the

3 component codes should be normalized into appropriate tables or

processed as a denormalized compound key!!

!A 27 JAN 97 JRT - subtypes for each of the 4 codes were added to the

model. These subtypes should be attributed and driven into separate

tables as that is how Silviculture, who own the definitions, will

present the data.

Data Administration
Entity Definition Report

Entity Name:	SILVICULTURE ACTIVITY CD (cont'd)	Short Name:	SLVC
---------------------	-----------------------------------	--------------------	------

<< 1998-03-26-11:50 sourced from:236464:427306 >>

Subtypes:

- BASE CD
- METHOD CD
- OBJECTIVE CD
- TECHNIQUE CD

Entity Name: SITE DISTURBANCE CD				<i>Short Name:</i>	SDC
<i>Plural:</i>	SITE DISTURBANCE CDS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	250	<i>Max. Volume:</i>	300
				<i>Annual Growth Rate:</i>	

Description:

A coded description of the major observable factors that are relevant to development of the current vegetation and soil characteristics of a plot. Up to four categories of disturbance can be observed.

See Vegetation Resources Inventory - Ground Sampling Procedures March 31, 1997. Card type EO - Succession Interpretations - Page 7-24.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SITE DISTR CD SKEY	System generated UID from ORACLE sequence site dist cd seq << 1998-03-26-16:13 sourced from:7003:537282 >>	N	NUMBER	7
SITE DIST CD	Site disturbance code per table 7.16 in Graound Sample Procedures March 31, 1997 Page 7-26. << 1998-03-26-16:13 sourced from:7003:537283 >>	N	VARCHAR2	4
DESCRIPTION	<< 1998-03-26-16:13 sourced from:7003:537284 >>	Y	VARCHAR2	75

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a subcategory of one and only one SITE DISTURBANCE CD
MAY BE an occurence of one or more DAMAGE OCCURRENCES
MAY BE decomposed into one or more SITE DISTURBANCE CDS
MAY BE found at one or more VEGETATION ESTAB ASSMTS

* = Relationships in primary unique identifier.

Unique Identifiers:

SDC1	Primary	Y
SITE DISTR CD SKEY		

Entity Name: SITE DISTURBANCE CD (cont'd)

Short Name: SDC

Notes:

<< 1998-03-26-16:13 sourced from:7003:521882 >>

Entity Name: SITE FEATURE ASSESSMENTS			Short Name:	SFEA
Plural:	SITE FEATURE ASSMTS			
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:	
Subtype of:	NON TREE ELEMENT ASSMT			

Description:

Interpreted and measured landscape, soil, and vegetative characteristics of a site. The assessment of generalized features that apply to the plot in total.

'Site', a common business term in this context, refers to the plot or for some measurements, e.g. mesoslope, the vicinity.

Stores the single field occurrences from the Ecological Description Card EP from the Vegetation Cover Sample data.

The site landform characteristics that are observed at a vistration to a location and are considered to characterize the location its proximate out of plot environs.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SITE FEATURE SKEY		N	NUMBER	7,0
System generated UID from ORACLE sequence site_desc_spd_Seq.				
<< 1998-03-26-16:13 sourced from:7003:537100 >>				
ECOSYSTEM UNIFORMITY CD	ECOSYSTEM UNIFORMITY CLASS	Y	NUMBER	1,0
A class of observed homogeneity of the the ecosystem.				
There maybe differing site series, successional stages, or landscape features that would contribute to the generalized assessment of the ecosystem.				

Data Administration
Entity Definition Report

Entity Name:	SITE FEATURE ASSESSMENTS (cont'd)	<i>Short Name:</i>	SFEA
---------------------	-----------------------------------	--------------------	------

<< 1998-03-26-16:13 sourced from:7003:537307 >>

SLOPE PCT	SLOPE PCT	Y	NUMBER	3,0
The gradient, in percent, of the terrain at the site location.				

<< 1998-03-26-16:13 sourced from:7003:344006 >>

ASPECT BRG	ASPECT BRG	Y	NUMBER	3
The measure, to the nearest azimuth degree, of the topographic orientation of the site location.				

<< 1998-03-26-16:13 sourced from:7003:344005 >>

ASPECT LEVEL IND	INDICATOR	Y	VARCHAR2	1
Indicates whether or not the land area is determined to be level.				

'Y' means level (having no aspect, or a minimal slope(<2%) under the curent Vegetation Inventory standard.

'N' means not level with an expected accompanying azimuth bearing to denote the slope (>2%).

<< 1998-03-26-16:13 sourced from:7003:569114 >>

ELEVATION	ELEVATION	Y	NUMBER	4,0
<< 1998-03-26-16:14 sourced from:7003:537311 >>				

SURFACE SHAPE CD	SURFACE SHAPE	Y	VARCHAR2	2
The general profile of the surface as applied to the site within the categorization of Meso Slope.				

Reference: Ecosystems in the Field, ch.2, p32.

<< 1998-03-26-16:14 sourced from:7003:220921 >>

MESO SLOPE POS CD	MESO SLOPE	Y	VARCHAR2	1
A code denoting the relative position of the site within a catchment area with the intent to be consistent within the scale of photographic affecting surface water flow.				

Entity Name:	SITE FEATURE ASSESSMENTS (cont'd)	Short Name:	SFEA
---------------------	-----------------------------------	--------------------	------

The vertical difference is usually between 3 and 300m, and the surface area generally exceeds 0.5 has in size. It falls within, or is coincident, with one macro slope position. Also known as slope position, and meso site position.

Reference: "Describing Ecosystems in the Field", MOE Manual 11, Province of B.C. 1990, p. 31.

<< 1998-03-26-16:14 sourced from:7003:220912 >>

MICROTOPOGRAPHY CD	MICROTOPOGRAPHY	Y	VARCHAR2	2
The variability of the surface configuration of the site.				

<< 1998-03-26-16:14 sourced from:7003:220913 >>

ROCK FRAGMENT SUBSTRATE PCT	PERCENTAGE 100	Y	NUMBER	3,0
An estimate of the site surface covered by exposed rock fragments (cobbles and stones) greater than 7.5 cm diameter.				

<< 1998-03-26-16:14 sourced from:7003:220920 >>

BEDROCK SUBSTRATE PCT	PERCENTAGE 100	Y	NUMBER	3,0
An estimate of the ground surface covered by bedrock.				
This may include bedrock covered by mosses and lichens.				

<< 1998-03-26-16:14 sourced from:7003:220831 >>

SLOPE FAILURE INTEGRATED IND	INDICATOR	Y	VARCHAR2	1
Evidence of recent or past slope failure greater than 100 sq. m. in surface area. This includes landslides slumps, debris flows, debris torrents, and bedrock failures.				

<< 1998-03-26-16:14 sourced from:7003:537314 >>

SOIL FEATURE APPLICABILITY IND	INDICATOR	Y	VARCHAR2	1
Indicates whether or not is it applicable to have soil features at the				

Entity Name: SITE FEATURE ASSESSMENTS (cont'd)

Short Name:

SFEA

location that the site feature data relates to i.e. if the point is

located over: soil, water, rock, etc.

<< 1998-03-26-16:14 sourced from:7003:578415 >>

SLOPE FAILURE BETWEEN IND

INDICATOR

Y

VARCHAR2

1

Evidence of recent or past slope failure greater than

100 sq. m. in surface area between plots in the sample.

This includes landslides slumps, debris flows, debris

torrents, and bedrock failures.

<< 1998-03-26-16:14 sourced from:7003:537315 >>

MAIN PLOT GULLIES IND

INDICATOR

Y

VARCHAR2

1

The presence of linear depressions incised into the landscape

where the channel is confined in a narrow ravine with banks

usually higher than 3 m. Their long profile may range from gentle

to steep, and uniform to irregular (benched).

Presence is noted to be within a plot if related to a CLUSTER

ELEMENT, between plots if not.

<< 1998-03-26-16:14 sourced from:7003:537309 >>

BETWEEN PLOT GULLIES IND

INDICATOR

Y

VARCHAR2

1

The presence of linear depressions between plots

in a sample incised into the landscape

where the channel is confined in a narrow ravine

with banks usually higher than 3 m. Their long profile may range

from gentle to steep, and uniform to irregular (benched).

<< 1998-03-26-16:14 sourced from:7003:537310 >>

Data Administration
Entity Definition Report

Entity Name: SITE FEATURE ASSESSMENTS (cont'd)				Short Name:	SFEA
FLOOD HAZARD CD	FLOOD HAZARD	Y	VARCHAR2	2	
An estimate of the relative frequency of flooding of the site					
by rivers, creeks and streams.					
<< 1998-03-26-16:14 sourced from:7003:220835 >>					
FLOWING WATER PCT	PERCENTAGE 100	Y	NUMBER	3,0	
An estimate of the site covered by flowing water.					
<< 1998-03-26-16:14 sourced from:7003:220840 >>					
STANDING WATER PCT	PERCENTAGE 100	Y	NUMBER	3,0	
An estimate of the site covered by standing water.					
<< 1998-03-26-16:14 sourced from:7003:220919 >>					
SURFICIAL MATERIAL 1 CD	SURFICIAL MATERIAL	Y	VARCHAR2	2	
The most predominant soil parent materials classified					
according to their mode of formation.					
<< 1998-03-26-16:14 sourced from:7003:220922 >>					
SURFICIAL MATERIAL 2 CD	SURFICIAL MATERIAL	Y	VARCHAR2	2	
The secondary soil parent materials classified					
according to their mode of formation.					
<< 1998-03-26-16:14 sourced from:7003:220923 >>					
HUMUS FORM CD	HUMUS FORM	Y	VARCHAR2	2	
The group of soil horizons at the surface which have formed					
primarily from organic materials, and which may include mineral					
soil intermixed with organic material.					
<< 1998-03-26-16:14 sourced from:7003:220843 >>					
ROOT ZONE SOIL COLOR CD	SOIL COLOR	Y	VARCHAR2	2	
The general tone range of soil color.					
<< 1998-03-26-16:14 sourced from:7003:220918 >>					

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE augmented by observations of one or more SOIL FEATURE DEPTHS

Entity Name:

SITE FEATURE ASSESSMENTS (cont'd)

Short Name:

SFEA

MAY BE augmented by observations of one or more SOIL HORIZONS

MAY BE biogeoclimatically identified by one and only one BGC ZONAL CLASSIFCATION CD

MAY BE further categorized by one and only one ECOSYSTEM DESCRIPTION DETAIL

* = *Relationships in primary unique identifier.*

Unique Identifiers:

SFEA1	Primary	Y
SITE FEATURE SKEY		

Notes:

<< 1998-03-26-16:13 sourced from:7003:218982 >>

Entity Name: SITE INDEX ASSESSMENT				<i>Short Name:</i>	SIA
<i>Plural:</i>	SITE INDEX ASSESSMENTS				
<i>Init. Volume:</i>	500000	<i>Avg. Volume:</i>	1000000	<i>Max. Volume:</i>	2000000
				<i>Annual Growth Rate:</i>	10%

Description:

The mean height of the dominant and codominant trees will attain

at a base index age used for the purposes of estimating forest site

growth capability.

The site index is based on a normalized set of coefficients

calibrated to reflect the range of heights for a given tree species.

Site Index is manually entered where stand growing conditions are

masked by external agents or by a large variability of heights and

ages (typically young or disturbed stands).

Definition Source: p. 5-2, PIP

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SITE INDEX SKEY	SKEY 14	N	NUMBER	14,0
The system generated surrogate identifier.				
Generated from sequence, SI_SEQ.				
<< 1998-03-26-17:25 sourced from:236464:670220 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:26 sourced from:236464:422006>>				
<< 1998-03-26-17:25 sourced from:236464:681666 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was				

Entity Name:	SITE INDEX ASSESSMENT (cont'd)	Short Name:	SIA
---------------------	--------------------------------	--------------------	-----

created.

<<1997-12-09-14:26 sourced from:236464:422005>>

<< 1998-03-26-17:25 sourced from:236464:681665 >>

MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				

<<1997-12-09-14:26 sourced from:236464:422008>>

<< 1998-03-26-17:25 sourced from:236464:681668 >>

MODIFY DATE	Y	DATE
The date the record was last modified.		

<<1997-12-09-14:26 sourced from:236464:422007>>

<< 1998-03-26-17:25 sourced from:236464:681667 >>

HISTORIC SPECIAL SITE CLASS CD	SITE CLASS	Y	VARCHAR2	1
The values of Site Index class (HISTORIC SITE CLASS) applied where				

the interpreter/classifier has determined that the site growing potential is masked by identifiable external factors not reflected by the age and/or height of the tree species in the layer. (Hence the business term 'Special Site Index').

This attribute is being retained for FIP based processing only; it is not collected or assigned under the Vegetation Inventory.

<<1997-11-18-15:24 sourced from:236464:508548>>

<<1997-12-05-16:14 sourced from:236464:670147>>

<< 1998-03-26-17:25 sourced from:236464:679745 >>

HISTORIC SITE CLASS CD	SITE CLASS	Y	VARCHAR2	1
------------------------	------------	---	----------	---

Entity Name: SITE INDEX ASSESSMENT (cont'd)

Short Name:SIA

The values of Site Index class based on historic

Ministry site index values for the range bounds of the tree species.

The site index is a measure of site productivity based on age and height relationships for a given species.

This attribute is being retained for FIP based processing only; it is not collected or assigned under the Vegetation Inventory.

<<1997-11-18-15:24 sourced from:236464:508547>>

<<1997-12-05-16:14 sourced from:236464:670148>>

<< 1998-03-26-17:25 sourced from:236464:679744 >>

SITE INDEX

SITE INDEX

Y NUMBER

3,1

The mean height of the dominant and codominant trees will attain

at a base index age used for the purposes of estimating forest site growth capability.

The site index is based on a normalized set of coefficients calibrated to reflect the range of heights for a given tree species.

Site Index is manually entered where stand growing conditions are masked by external agents or by a large variability of heights and ages (typically young or disturbed stands).

Definition Source: p. 5-2, PIP

<<1997-12-05-16:14 sourced from:236464:508453>>

<< 1998-03-26-17:25 sourced from:236464:679746 >>

REFERENCE AGE

SITE INDEX REF AGE

Y NUMBER

3,0

The selected standardized age from which a normalized curves are

Entity Name: SITE INDEX ASSESSMENT (cont'd)

Short Name: SIA

generated for tree height and age coefficients. The business default is 50 years.

<<1997-12-05-16:14 sourced from:236464:569095>>
<< 1998-03-26-17:25 sourced from:236464:679747 >>

INTERPRETATION SOURCE CD SITE INDEX SOURCE Y VARCHAR2 3

The source from which site index was assigned/estimated (that is, interpreted).

Definition and values from p. 5-5, PIP

<<1997-12-05-16:14 sourced from:236464:508454>>
<< 1998-03-26-17:25 sourced from:236464:679748 >>

SOURCE TYPE DATA SOURCE TYPE N VARCHAR2 5

The basic source type of the data; either Collected or Derived. This is utilized to distinguish occurrences of attributes that can come from either source.

Expected to be used for FIP sourced data only; all within-database derivations will have a DERIVATION TRANSACTION occurrence to identify derived data.

<< 1998-03-26-17:25 sourced from:236464:786447 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT
* = Relationships in primary unique identifier.

Unique Identifiers:

SIA1 Primary Y

SITE INDEX SKEY

Notes:

<< 1998-03-26-17:25 sourced from:236464:670212 >>

Entity Name:	SITE INDEX CLASS	<i>Short Name:</i>	SIC
<i>Plural:</i>	SITE INDEX CLASSES		
<i>Init. Volume:</i>	10	<i>Avg. Volume:</i>	10
		<i>Max. Volume:</i>	20
		<i>Annual Growth Rate:</i>	1%

Description:

The standard Resouce Inventory Branch site class code and the bounds
for its determination.

As analysed, this is a stand-alone rule table and has no
relationships.

Populate the values from the FIP Dictionary, p 3-96.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SITE INDEX CLASS SKEY	SKEY 7	N	NUMBER	7,0
The system generated identifier for site index skey.				
Value generated by SITE_INX_CL_SEQ.				
<< 1998-03-26-17:25 sourced from:236464:569102 >>				
CLASS CD		N	VARCHAR2	3
The business identifier of the site index class. Typically this is a number, 5, 10, 15 etc.				
Populate values from FIP attribute 5 m SITE CLASS, p. 3-125.				
<< 1998-03-26-17:25 sourced from:236464:569104 >>				
REFERENCE AGE	SITE INDEX REF AGE	N	NUMBER	3,0
The reference age to which the Site Index is determined.				
<< 1998-03-26-17:25 sourced from:236464:569107 >>				
MIN SITE INDEX BOUND	TREE HEIGHT 3 1	N	NUMBER	3,1
The minimum value of the site index class.				
<< 1998-03-26-17:25 sourced from:236464:569105 >>				

Data Administration
Entity Definition Report

<i>Entity Name:</i>	SITE INDEX CLASS (cont'd)	<i>Short Name:</i>	SIC
MAX SITE INDEX BOUND	TREE HEIGHT 3 1	N NUMBER	3,1
The maximum value of the site index class.			

<< 1998-03-26-17:25 sourced from:236464:569106 >>

* = Attributes in primary unique identifier.

Unique Identifiers:

SIC2	Primary	N
CLASS CD		
SIC1	Primary	Y
SITE INDEX CLASS SKEY		

Notes:

<< 1998-03-26-17:25 sourced from:236464:569096 >>

Entity Name:	SITE INDEX COEFFICIENT SET	<i>Short Name:</i>	SICS
<i>Plural:</i>	SITE INDEX COEFFICIENT SETS		
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500
		<i>Max. Volume:</i>	1000
		<i>Annual Growth Rate:</i>	

Description:

The set of coefficients that are used to calculate site index.

A! (97-12) No further analysis has been done, though it is expected

that there will be a generalized approach to naming the coefficient

and retaining its respective value.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE is for one and only one TAXONOMIC NAME

MAY BE supplying the parameters for one and only one DERIVATION MODULE

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-17:25 sourced from:236464:679686 >>

Data Administration
Entity Definition Report

Entity Name: SITE INDEX STATISTICAL ESTIMATE			<i>Short Name:</i>	SISES
<i>Plural:</i>	SITE INDEX STATISTICAL EST			
<i>Init. Volume:</i>	8000	<i>Avg. Volume:</i>	65000	<i>Max. Volume:</i> 100000
			<i>Annual Growth Rate:</i>	5%

Description:

The mean site index of individual trees of a selected tree species.

Site index is a measure of site productivity expressed as a height of the tree ata defined base index age.

A! A site index algorithm code table is required. Keys are name, year of release, and tree-species-to-which-it-applies. See the Permanent Sample Plot Header Database Report of January 1994. To be incorporated at prototype stage.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DATE OF CALC		N	DATE	
The date the Site Index was calculated. If unknown, then the default is the date of data load.				
<< 1998-03-27-13:01 sourced from:346868:347033 >>				
REFERENCE AGE	SITE INDEX REF AGE	N	NUMBER	3,0
The selected standardized age from which a normalized curves are generated for tree height and age coefficients.				
<< 1998-03-27-13:01 sourced from:346868:347034 >>				
REFERENCE AGE HT		N	NUMBER	3,2
The height on the tree, to which the site index, using the specified r				
eference age, applies. Typically, this is either the breast height (1				
.30 m.) or the germination point (0.00 m.).				
<< 1998-03-27-13:01 sourced from:346868:347304 >>				
* SITE INDEX SKEY	SKEY 7	N	NUMBER	7,0
A surrogate identifier of the calculation of Site Index, as no				
business identifiers have been kept previously. The date and time				

Data Administration
Entity Definition Report

Entity Name:	SITE INDEX STATISTICAL ESTIMATE (cont'd)	Short Name:	SISES
---------------------	--	--------------------	-------

would become the future business key.

<< 1998-03-27-13:01 sourced from:346868:347106 >>

STAT MAX	Y	NUMBER	4,2
The maximum range value of the site index as determined from the derivation of the mean.			

<< 1998-03-27-13:01 sourced from:346868:347125 >>

STAT MEAN	N	NUMBER	4,2
The mean site index using the breast height (BH) age applied to the site index equations based on the reference age.			

<< 1998-03-27-13:01 sourced from:346868:347123 >>

STAT MIN	Y	NUMBER	4,2
The minimum range value of the site index as determined from the derivation of the mean.			

<< 1998-03-27-13:01 sourced from:346868:347124 >>

STAT VARIANCE	Y	NUMBER	4,2
The variance, or measure of dispersion about the mean, of the site index as determined from the calculation of the mean.			

<< 1998-03-27-13:01 sourced from:346868:347126 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE describing one and only one LAYER SPECIES COMPOSITION

* = Relationships in primary unique identifier.

Unique Identifiers:

SISES1	Primary	Y
SITE INDEX SKEY		

Notes:

<< 1998-03-27-13:01 sourced from:346868:347032 >>

Entity Name: SITE SERIES CD			<i>Short Name:</i>	SS
<i>Plural:</i>	SITE SERIES CDS			
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i> 1500
			<i>Annual Growth Rate:</i>	

Description:

Groups of ecosystems, that regardless of present vegetation, have the same, or equivalent environmental properties and potential vegetation for a given climatic regime.

The parent concept of site series, site associations, is all ecosystems capable of producing vegetation belonging to the same plant association at climax.

A site association is divided into site series by identification with climatic (or zonal) features of Zone, Subzone, Variant, and Climatic Phase.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
SITE SERIES DESCRIPTION		Y	VARCHAR2	75
The descriptive name of the Site Series.				

As supplied from Research Branch.

<< 1998-03-26-16:16 sourced from:7003:235449 >>

SITE SERIES CD	N	VARCHAR2	8
<< 1998-03-26-16:16 sourced from:7003:220970 >>			

* SITE SERIES SKEY	N	NUMBER	7
System generated UID from Oracle sequence VEG_CODE_SEQ			

<< 1998-03-26-16:16 sourced from:7003:563522 >>

* = Attributes in primary unique identifier.

Relationships:

Entity Name:	SITE SERIES CD (cont'd)	Short Name:	SS
---------------------	-------------------------	--------------------	----

Each Occurrence Of This Entity:

- MAY BE located within one and only one VGIS FOREST REGION
 - MAY BE shown for one or more ECOSYSTEM DESC DETAILS
 - MUST BE defined within one and only one BGC ZONAL CLASSIFCATION CD
- * = Relationships in primary unique identifier.

Unique Identifiers:

SS1	Primary	Y
SITE SERIES SKEY		

Notes:

<< 1998-03-26-16:16 sourced from:7003:219003 >>

Entity Name: SMC PATHOLOGY			<i>Short Name:</i> SMCPT	
<i>Plural:</i> SMC PATHOLOGIES				
<i>Init. Volume:</i> 100		<i>Avg. Volume:</i> 500		<i>Max. Volume:</i> 1000
				<i>Annual Growth Rate:</i> 5%

Description:

Pathology indicators as prescribed for collection in the Stand

Management Cooperative (SMC) program. The pathological indicators are

collected as binary (Y/N) entries.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
BROKEN TOP IND An indicator for the occurrence of a broken tree top.	INDICATOR	Y	VARCHAR2	1
CROOKED TOP IND An indicator for the occurrence of a crooked top.	INDICATOR	Y	VARCHAR2	1
DEAD TOP IND An indicator for the occurrence of a dead top.	INDICATOR	Y	VARCHAR2	1
FORK ABOVE BH IND An indicator for the occurrence of a fork above breast height.	INDICATOR	Y	VARCHAR2	1
FORK BELOW BH IND An indicator for the occurrence of a fork below breast height.	INDICATOR	Y	VARCHAR2	1
LEAN IND An indicator of the occurrence of tree lean.	INDICATOR	Y	VARCHAR2	1
SCAR IND An indicator of the occurrence of a scar.	INDICATOR	Y	VARCHAR2	1
SWEEP IND An indicator of sweep of the tree. Sweep is the pronounced bowing of the tree stem.	INDICATOR	Y	VARCHAR2	1

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

* MUST BE recorded for one and only one TREE MEASUREMENT

* = Relationships in primary unique identifier.

Unique Identifiers:

SMCPT1 Primary Y
MUST BE recorded for one and only one TREE MEASUREMENT

Entity Name: SOIL FEATURE DEPTH			<i>Short Name:</i>	SFD
<i>Plural:</i>	SOIL FEATURE DEPTHS			
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	5000	<i>Max. Volume:</i> 8000
			<i>Annual Growth Rate:</i>	1%

Description:

Observations of natural soil features, with two exceptions, at

a depth in the soil pit.

The natural features that are assessed in Vegetation Inventory

practise are: water table, mottles, root restriction pan, bedrock,

frozen layer and carbonates. Other features can be added in this data

design by adding to the feature list (domain).

The first exception to natural soil features is the artifact of the

Depth of Pit. It is retained here, like the natural features, as an

soil pit depth related attribute.

The second exception is the explicit occurence of an attempted

observation that was precluded by field conditions, e.g. rock. This

is recorded as 'Not Applicable' on the field sheets and is handled as

a feature with a value of 'NA'.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SOIL FEATURE NAME	SOIL FEATURE	N	VARCHAR2	10
Specified soil features for which depth from the top of the mineral soil is required if the feature is present.				

Requirement from Vegetation Inventory, cards ED and EP.

Not meant to include soil horizon references.

Entity Name: SOIL FEATURE DEPTH (cont'd)

Short Name: SFD

<< 1998-03-26-16:17 sourced from:7003:235110 >>

DEPTHN NUMBER4,1

The measured depth in centimetres from the
top of the mineral soil.

<< 1998-03-26-16:17 sourced from:7003:235126 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- * MUST BE quantifying predominant features for one and only one SITE FEATURE ASSESSMENTS
- * = Relationships in primary unique identifier.

Unique Identifiers:

SFD1Primary Y

MUST BE quantifying predominant features for one and only one SITE FEATURE ASSESSMENTS
SOIL FEATURE NAME

Notes:

<< 1998-03-26-16:17 sourced from:7003:235104 >>

Entity Name: SOIL HORIZON			<i>Short Name:</i>	SHOR
<i>Plural:</i>	SOIL HORIZONS			
<i>Init. Volume:</i>	200	<i>Avg. Volume:</i>	1000	<i>Max. Volume:</i> 2000
			<i>Annual Growth Rate:</i>	1%

Description:

A layer of mineral or organic soil, or soil material, approximately parallel to the land surface that has characteristics determined by processes of soil formation.

A horizon is distinctive on account of unique properties of color, structure, texture and consistence and in chemical, biological and mineralogical composition.

(from 'Describing Ecosystems in the Field', p71)

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SEQUENCE NUM		N	NUMBER	2,0
The numeric sequence of soil horizons from the very top of the soil, i.e. organic horizon.				
The sequencing is neccessary as the depth of the soil horizons is measured from a lower horizon, the interface of the organic and mineral soil.				
The sequencing is implied from the supplied order of the data on Veg. Inv. sample card ED.				
<< 1998-03-26-16:17 sourced from:7003:220946 >>				
COARSE FRAGMENTS TOTAL PCT	PERCENTAGE 100	Y	NUMBER	3,0
An estimate of the proportion of total soil volume material by mineral soil horizon occupied by materials				

Data Administration
Entity Definition Report

Entity Name:	SOIL HORIZON (cont'd)	Short Name:	SHOR
---------------------	-----------------------	--------------------	------

>2 mm in diameter.

A! is this the sum of stones/cobbles and gravel?

<< 1998-03-26-16:17 sourced from:7003:219276 >>

COBBLES STONES PCT	PERCENTAGE 100	Y	NUMBER	3,0
--------------------	----------------	---	--------	-----

An esitmate of the proportion of the total soil volume

material by soil horizon occupied by materials >= 7.5 cm

in diameter.

<< 1998-03-26-16:17 sourced from:7003:219280 >>

DEPTH		Y	NUMBER	4,1
-------	--	---	--------	-----

The depth of the soil horizon from zero depth. In the convention

of soil description practise, the zero depth is the top of the

mineral soil horizon, the same as the bottom of the organic

soil horizon.

The use of SEQUENCE NUM ensures the correct sequence of

horizon order from the very top through the organic layers to zero

and deeper through the mineral soil horizons.

<< 1998-03-26-16:17 sourced from:7003:219279 >>

GRAVEL PCT	PERCENTAGE 100	Y	NUMBER	3,0
------------	----------------	---	--------	-----

An estimate of total volume of soil material by mineral soil horizon

of coarse fragments that are <7.5cm in diameter.

<< 1998-03-26-16:17 sourced from:7003:219277 >>

HORIZON CD		Y	VARCHAR2	3
------------	--	---	----------	---

A code for a soil horizon. A soil horizon is a layer of mineral

or organic soil or soil material, approximately parallel to the land

surface that has characteristics determined by processes of soil

formation.

Entity Name:	SOIL HORIZON (cont'd)	Short Name:	SHOR
---------------------	-----------------------	--------------------	------

A horizon differs from adjacent horizons in properties such as color, structure, texture, and consistence, and in chemical, biological and mineralogical composition.

<< 1998-03-26-16:17 sourced from:7003:219278 >>

TEXTURE CD	SOIL TEXTURE	Y	VARCHAR2	4
The size distribution of primary mineral particles (=< 2mm diameter) as determined from field estimation.				

No known valid codes (96-4).

<< 1998-03-26-16:17 sourced from:7003:219281 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- * MUST BE quantifying soil desription for one and only one SITE FEATURE ASSESSMENTS
- * = Relationships in primary unique identifier.

Unique Identifiers:

SHOR1	Primary	Y
MUST BE quantifying soil desription for one and only one SITE FEATURE ASSESSMENTS		
SEQUENCE NUM		

Notes:

<< 1998-03-26-16:17 sourced from:7003:218996 >>

Entity Name: SOURCE DATA ARCHIVE DETAIL				<i>Short Name:</i>	SDA
<i>Plural:</i>	SOURCE DATA ARCHIVE				
<i>Init. Volume:</i>	50000	<i>Avg. Volume:</i>	1000000	<i>Max. Volume:</i>	15000000
				<i>Annual Growth Rate:</i>	10%

Description:

A copy of the source measurement data (individual records).

The copy is archived for the purposes of retaining the data in 'as supplied' basis (process state of FFL) and in the potentially modified form after successful loading to the structured repository (process state of FFDV).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FLAT FILE DATA		N	VARCHAR2	2000
<< 1998-03-27-13:03 sourced from:346868:350003 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE is the measurment data indentified by one and only one SOURCE DATA ARCHIVE HEADER

* = Relationships in primary unique identifier.

Unique Identifiers:

SDA1	Primary	Y
FLAT FILE DATA		

Notes:

<< 1998-03-27-13:03 sourced from:346868:350000 >>

Data Administration
Entity Definition Report

Entity Name: SOURCE DATA ARCHIVE HEADER			<i>Short Name:</i>	SDAH
<i>Plural:</i>	SOURCE DATA ARCHIVE HEADER			
<i>Init. Volume:</i>	50000	<i>Avg. Volume:</i>	200000	<i>Max. Volume:</i> 1000000
			<i>Annual Growth Rate:</i>	10%

Description:

An copy of the business keys and process details for all the load

source data.

The copy is archived for the purposes of retaining the data in

'as supplied' basis (process state of FFL) and in the potentially

modified form after successful loading to the structured repository

(process state of FFDV).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ARCHIVE SKEY << 1998-03-27-13:03 sourced from:346868:349990 >>	SKEY 7	N	NUMBER	7,0
BUSINESS KEY << 1998-03-27-13:03 sourced from:346868:349991 >>	DESC 75	N	VARCHAR2	75
EXTERNAL FILE NAME << 1998-03-27-13:03 sourced from:346868:349995 >>		Y	VARCHAR2	100
PROCESS TRANSACTION SKEY << 1998-03-27-13:03 sourced from:346868:349996 >>	SKEY 7	Y	NUMBER	7,0
PROCESS STATE CD The process state of the source data before it was archived. If the data is being archived before a change of state, this attribute will represent the state before the transition. << 1998-03-27-13:03 sourced from:346868:349997 >>		Y	VARCHAR2	8
DATA FORMAT SKEY << 1998-03-27-13:03 sourced from:346868:349998 >>	SKEY 7	Y	NUMBER	7,0
SAMPLE GROUP SKEY << 1998-03-27-13:03 sourced from:346868:349999 >>	SKEY 7	Y	NUMBER	7,0

* = Attributes in primary unique identifier.

Data Administration
Entity Definition Report

Entity Name:	SOURCE DATA ARCHIVE HEADER (cont'd)	<i>Short Name:</i>	SDAH
---------------------	-------------------------------------	--------------------	------

Relationships:

Each Occurrence Of This Entity:

MAY BE identifying component for one or more SOURCE DATA ARCHIVE
MAY BE is found by one and only one SOURCE DATA DESTINATION REF
* = Relationships in primary unique identifier.

Unique Identifiers:

SDAH1	Primary	Y
ARCHIVE SKEY		

Notes:

<< 1998-03-27-13:03 sourced from:346868:349989 >>

Entity Name:	SOURCE DATA DESTINATION REF	<i>Short Name:</i>	SDDR
<i>Plural:</i>	SOURCE DATA DESTINATION REFS		
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	1000
		<i>Max. Volume:</i>	2000
		<i>Annual Growth Rate:</i>	1%

Description:

The source data destination reference

provides mapping(s) between the archived source data

and the data in the database. Since the archive data

can be any number of formats, the number of the references

and their meaning will be determined by the format

information found as part of the archive data.

For example, for the Standard Edit File format (SEF),

each of the the archive data sets will relate to both

a Plot Cluster and a Measurement Visitation since

the data travels in measurements.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DESTINATION SKEY 1	SKEY 7	Y	NUMBER	7,0
The first surrogate key value that relates to the loaded				
data in the destination relational structure. The actual				
meaning of surrogate key (i.e. which table and column it				
references) will be determined by the data format for the				
archived data.				

<< 1998-03-27-13:03 sourced from:346868:430037 >>

DESTINATION SKEY 2	SKEY 7	Y	NUMBER	7,0
The second surrogate key value that relates to the loaded				
data in the destination relational structure. The actual				
meaning of surrogate key (i.e. which table and column it				

Entity Name:	SOURCE DATA DESTINATION REF (cont'd)	Short Name:	SDDR
---------------------	--------------------------------------	-------------	------

references) will be determined by the data format for the

archived data.

<< 1998-03-27-13:03 sourced from:346868:430038 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- * MAY BE identifies loaded data for one and only one SOURCE DATA ARCHIVE HEADER
- * = Relationships in primary unique identifier.

Unique Identifiers:

SDDR1	Primary	Y
MAY BE identifies loaded data for one and only one SOURCE DATA ARCHIVE HEADER		

Notes:

<< 1998-03-27-13:03 sourced from:346868:429589 >>

Entity Name:	SPATIAL BUSINESS OBJECT			<i>Short Name:</i>	SPO
<i>Plural:</i>	SPATIAL BUSINESS OBJECTS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	1000
				<i>Annual Growth Rate:</i>	2%

Description:

The source table column reference used to procedurally enforce the validation of attribution associated with a THEME ATTRIBUTE SUMMARY.

Each unique attribute of a theme is validated from a multiplicity of sources. These sources, could be relationally enforced, however, given their volatility, other application uses and the unknown number of them, it was decided that validation would be procedurally enforced by way of the identified source in this table.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SPATIAL BUS SKEY	The surrogate identifier of an attribute (table-column) reference used to validate the values for the Theme Attribute Summary table.	N	NUMBER	7,0
<< 1998-03-25-16:59 sourced from:416792:437856 >>				
TABLE NAME	The name of the table which contains the column that is the source of the object that is the source of summary in the THEME ATTRIBUTE SUMMARY.	N	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:435292 >>				
UID COLUMN NAME	The name of the unique identifier column that is the object of summary for a portion of a map area in the THEME ATTRIBUTE SUMMARY.	N	VARCHAR2	30

Entity Name:	SPATIAL BUSINESS OBJECT (cont'd)	<i>Short Name:</i>	SPO
---------------------	----------------------------------	--------------------	-----

By this procedral enforcement, administration of valid data values
from a single source is expedited.

<< 1998-03-25-16:59 sourced from:416792:435397 >>

CREATE DATEN DATE

<< 1998-03-25-16:59 sourced from:416792:492819 >>

MODIFY DATEY DATE

<< 1998-03-25-16:59 sourced from:416792:492820 >>

CREATE USER IDN VARCHAR230

<< 1998-03-25-16:59 sourced from:416792:492821 >>

MODIFY USER IDY VARCHAR230

<< 1998-03-25-16:59 sourced from:416792:492822 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE the subject of one or more THEME AREA SUMMARIES
* = Relationships in primary unique identifier.

Unique Identifiers:

SPO1PrimaryY

SPATIAL BUS SKEY

Notes:

<< 1998-03-25-16:59 sourced from:416792:435286 >>

Entity Name: SPATIAL DELIMITER				<i>Short Name:</i>	SPTLD
<i>Plural:</i>	SPATIAL DELIMITERS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	3000	<i>Max. Volume:</i>	5000
				<i>Annual Growth Rate:</i>	5%

Description:

The physical bounds (i.e. area and shape) of the plot. This covers both variable area and fixed area plots, while normally distinct in their attribution, share the common requirement that partial coverage may occur for either.

Note that the concept of a plot is separated in two elements, the spatial delimiter and the subpopulation of trees to which it applies.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SPATIAL DELIM SKEY	SKEY 7	N	NUMBER	7,0
INSERT ON LOAD IND	INDICATOR DEFAULT N	N	VARCHAR2	1
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE defining the bounds of one or more BIOMETRIC DESIGN SPECIFICATIONS
MAY BE delineated by one or more AREAL SHAPE DIMENSIONS
* = Relationships in primary unique identifier.

Unique Identifiers:

SPTLD1	Primary	Y
SPATIAL DELIM SKEY		

Notes:

A business key has been defined at the physical level for the following attributes:

- PARTIAL AREA START BRG
- PARTIAL AREA END BRG
- RADIUS
- LENGTH

Data Administration
Entity Definition Report

Entity Name:	SPATIAL DELIMITER (cont'd)	<i>Short Name:</i>	SPTLD
	WIDTH		
	BASAL AREA FTR		

<< 1998-03-27-09:35 sourced from:236464:612320 >>

Subtypes:

- AGGREGATE PLOT
- FIXED AREA PLOT
- TRANSECT
- VARIABLE AREA PLOT

Entity Name: SPECIES GRADE CD			<i>Short Name:</i>	LGC
<i>Plural:</i>	SPECIES GRADE CDS			
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i> 1000
			<i>Annual Growth Rate:</i>	2%

Description:

The code for a specific species or species group representing the highest best commercial use of a portion of the tree, applied to standing and fallen trees in the field by ocular estimate.

These are based on the MOF statutory log grades, though these codes and their descriptions have been taken from the Vegetation Inventory Sampling Manual, p. 6-1, Nov. 15,1996 version.

This is a rule based system, based on Tree Species, Minimum diameters, knot diameters, etc., No attempt has been made to model the rule set (96-12), though it could be done. (It may have already been undertaken for scaling requirements and should be 'borrowed'). The purpose of this entity, in its current form, is to supply a list of valid values and a biref description. It is given a surrogate key, as the definition of values and their meaning is supplied by external data custodians and may be changed at any time.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* LOG GRADE SKEY	A surrogate key to identify the Tree Grade CD.	N	NUMBER	7,0
<< 1998-03-26-16:28 sourced from:7003:407362 >>				
LOG GRADE CD		N	VARCHAR2	8

Entity Name: SPECIES GRADE CD (cont'd)

Short Name: LGC

The codified grade of a portion of a tree. The grade includes various species, minimum size, knot number etc. considerations in arriving at a single representative value.

<< 1998-03-26-16:28 sourced from:7003:407363 >>

DESCY VARCHAR250

A brief description of the log grade.

<< 1998-03-26-16:28 sourced from:7003:407365 >>

MIN LOG LENGTHY NUMBER3,1

<< 1998-03-26-16:28 sourced from:7003:539963 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE define wood grades one and only one TAXONOMIC NAME
or MUST BE define wood grades one and only one SPECIES GROUP DEFINITION
MAY BE assigned to one or more LOG ASSESSMENTS
* = Relationships in primary unique identifier.

Unique Identifiers:

LGC1Primary Y

LOG GRADE SKEY

Notes:

Further attribution is required to support the informational content found in the Log Grade Class tables, Section 6 Call Grading in the Ground Sampling Procedures manual.

<< 1998-03-26-16:28 sourced from:7003:407356 >>

Entity Name:	SPECIES GROUP ASSOCIATION			<i>Short Name:</i>	SGA
<i>Plural:</i>	SPECIES GROUP ASSOCIATIONS				
<i>Init. Volume:</i>	1500	<i>Avg. Volume:</i>	2500	<i>Max. Volume:</i>	3000
			<i>Annual Growth Rate:</i>		

Description:

An association of SPECIES GROUP CODEs for the purpose of grouping the

a set of taxonomic codes for some business purpose.

An example is the LIfE Form Codes which are groups of taxonomic names

used for Vegetative Cover sampling.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE a child of one and only one SPECIES GROUP DEFINITION
 - * MUST BE a parent of one and only one SPECIES GROUP DEFINITION
- * = Relationships in primary unique identifier.

Unique Identifiers:

SGA1	Primary	Y
MUST BE a child of one and only one SPECIES GROUP DEFINITION		
MUST BE a parent of one and only one SPECIES GROUP DEFINITION		

Notes:

<< 1998-05-01-11:28 sourced from:236464:540747 >>

Entity Name: SPECIES GROUP DEFINITION			<i>Short Name:</i>	SGDEF
<i>Plural:</i>	SPECIES GROUP DEFINITIONS			
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	1000	<i>Max. Volume:</i> 1500
			<i>Annual Growth Rate:</i>	

Description:

A code used to identify a culturally defined group of TAXONOMIC OCCURRENCES. Although referred to as a species group, the actual group can be composed of any entries from TAXONOMY. Inclusion of a TAXONOMIC code implies any/all codes below the selected code in the TAXONOMIC classification are included.

- Some examples would be:
- Life Form Codes which are used in Vegetation Samples to group tree and shrub species together for analysis purposes.
 - Tree Species Group Codes used in Growth and Yield Samples.

Thus, at least 2 entries would be required to define a set of codes:

- one to describe the set of codes (with no parent).
- one to describe each code entry in the set (with the set as the parent).

Using the SPECIES GROUP ASSOCIATIONS entitiy, a heirarchy of code relationships can be established.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SPP GROUP SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-05-01-11:28 sourced from:236464:540762 >>				

Data Administration
Entity Definition Report

Entity Name:	SPECIES GROUP DEFINITION (cont'd)	Short Name:	SGDEF
--------------	-----------------------------------	-------------	-------

GROUP CD	N	VARCHAR2	8
<< 1998-05-01-11:28 sourced from:236464:540763 >>			

DESCRIPTION	N	VARCHAR2	75
<< 1998-05-01-11:28 sourced from:236464:540764 >>			

CREATE DATE	N	DATE	
<< 1998-05-01-11:28 sourced from:236464:540765 >>			

LONG CD	Y	VARCHAR2	8
---------	---	----------	---

The long code which identifies the species group. This is attribute

is created for consistency with TAXONOMY and GROUP TAXONOMIC

OCCURENCES, and its use is expected to be rare.

However, the insertion of the 'UNKNOWN' value by the

Data Administration group represents a minor level

kludge.

A group of 'TREE' for example, does not have a sanctioned long code,

and nor does 'UNKNOWN' describe the group. However, the business does

have a requirement for recording unknown TREEs, HERBS etc, and

records a long code.

<< 1998-05-01-11:28 sourced from:236464:817337 >>

SHORT CD	Y	VARCHAR2	4
----------	---	----------	---

The short code, often refered to as the 'field code', which identifies

the species. Usually applies to tree species, though 'X', th only

known instance of a short code, is used by the business to identify

the group 'TREE'.

The codes are from the Research Branch, 1997 Tree List.

<< 1998-05-01-11:28 sourced from:236464:817340 >>

Entity Name:	SPECIES GROUP DEFINITION (cont'd)		Short Name:	SGDEF
CREATE USER ID	N	VARCHAR2	30	
<< 1998-05-01-11:28 sourced from:236464:540766 >>				
MODIFY DATE	Y	DATE		
<< 1998-05-01-11:28 sourced from:236464:540767 >>				
MODIFY USER ID	Y	VARCHAR2	30	
<< 1998-05-01-11:28 sourced from:236464:540768 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a child of one or more SPECIES GROUP ASSOCIATIONS
- MAY BE a parent of one or more SPECIES GROUP ASSOCIATIONS
- MAY BE aggregating one or more GROUP TAXON MEMBERSHIPS
- MAY BE applied to one or more BCLCC BOUND SETS
- MAY BE applied to one or more DESIGN SPECIFICATIONS
- MAY BE graded by one or more SPECIES GRADE CDS
- MAY BE owned by one or more ROLE ASSOCIATIONS
- MAY BE prescribing a specification for one or more SUBPOPULATIONS

* = Relationships in primary unique identifier.

Unique Identifiers:

SGDEF1	Primary	Y
SPP GROUP SKEY		

Notes:

<< 1998-05-01-11:27 sourced from:236464:540741 >>

Data Administration
Entity Definition Report

Entity Name: STAND			Short Name:	STAND
Plural:	STANDS			
Init. Volume:	6000	Avg. Volume:	30000	Max. Volume: 60000
			Annual Growth Rate:	5%

Description:

Also known as a polygon, a name derived from the mapping context. A homogeneous area of forest cover usually determined by classification of medium scale aerial photographs. Homogeneous is defined in terms of density, species, composition, mean age and mean height (Standards form quantifying homogeneity are maintained in "Inventory Classification Standards"). In the business of Growth & Yield, a stand is of interest only as selected as part of the process for sampling (experiments to a lesser extent). It is intended that this stand information represents the stand at the time of plot cluster (sample or experiment plot) establishment.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
FOREST COVER POLYGON ID		Y	NUMBER	5,0
The forest cover polygon number that, together with a mapsheet identifier, uniquely identifies a particular stand in the forest inventory.				
<i>HH93_S SAMPLE_SA_POLY_NO</i>				
<i>SEF_S CT1:54-57 POLYGON NO.</i>				
<< 1998-03-27-13:04 sourced from:346868:346816 >>				
NON MOF OWNED STAND ID	DESC 10	Y	VARCHAR2	10
A free-form textual tag used to identify stands for which data has been imported from outside the BC Ministry of Forests and does not conform to Ministry data standards.				
<i>A! Later use if acquired from other agencies</i>				
<< 1998-03-27-13:04 sourced from:346868:346815 >>				

Entity Name:STAND (cont'd)

Short Name:STAND

ORIGIN CD

TREE ORIGIN

Y

VARCHAR2

1

A code to denote the predominant environmental or silvicultural factor

s which contributed to the establishment of the forest stand in which

the sample resides. Codes and their descriptions are from the "Minimu

m Standards for the Establishment and Remeasurement of Permanent Sampl

e Plots in BC", Forest Productivity Committee, Sept. 1990 publication.

HH93_S SAMPLE_SA_ORIGIN

SEF_S CT1:54-57 STAND ORIGIN

A! May later revieww SILV codes

<< 1998-03-27-13:04 sourced from:346868:346817 >>

PHOTO 70 MM IND

INDICATOR DEFAULT N

Y

VARCHAR2

1

A code to denote if a stand was photographed using low level 70 mm. ae

rial photography.

HH93_S SAMPLE_SA_PHOTO70

SEF_S CT1:70

SEF_C 1 = 'Y', Blank = 'N'

A! If 'Y' also occurrence of PHASE = 1

<< 1998-03-27-13:04 sourced from:346868:346822 >>

PLANTN STOCK AGE

TREE PLANT STOCK AGE

Y

NUMBER

1,0

For the trees in the layer, the age of the planting stock in years at

PLANTATION YEAR at stand establishment.

HH93_S SAMPLE_SA_AGE_STK

SEF_S CT0:59 AGE OF STOCK

<< 1998-03-27-13:04 sourced from:346868:346819 >>

PLANTN YR

ACTIVITY YR

Y

NUMBER

4,0

The year the forest stand (in which the sample resides)was planted (if

planting is the stand origin).

HH93_S SAMPLE_SA_PLNT_YR

Data Administration
Entity Definition Report

Entity Name: STAND (cont'd) **Short Name:** STAND

SEF_S CT0:57-58 PLANTATION YEAR

A! Will also store (and display) century

<< 1998-03-27-13:04 sourced from:346868:346818 >>

SEF FERT IND INDICATOR Y VARCHAR2 1

As supplied by the Standard Edit File (SEF), an indicator of fertiliza
tion treatment. This indicator (Y/N) is not normally sufficient to de
scribe the more rigorous treatment scheme and record keeping applied t
o plots (experimental units) of an experiment. This attribute shoul
d only be used to retain the legacy Inventory Branch data. Later enha
ncements to this database application will reflect a relationship to a
TREATMENT (Ver. 1 LDM). A TREATMENT would apply to a STAND or a PLOT
CLUSTER and would be keyed by a date (unavailable in the SEF legacy d
ata).

<< 1998-03-27-13:04 sourced from:346868:347306 >>

SEF OTHER IND INDICATOR Y VARCHAR2 1

As supplied by the Standard Edit File (SEF), an indicator of an unknow
n (other) treatment. This indicator (Y/N) is not normally sufficient
to describe the more rigorous treatment scheme and record keeping appl
ied to plots (experimental units) of a an experiment. This attribute
should only be used to retain the legacy Inventory Branch data. Later
enhancements to this database application will reflect a relationship
to a TREATMENT (Ver. 1 LDM). A TREATMENT would apply to a STAND or a
PLOT CLUSTER and would be keyed by a date (unavailable in the SEF leg
acy data).

<< 1998-03-27-13:04 sourced from:346868:347308 >>

SEF PRUNE IND INDICATOR Y VARCHAR2 1

As supplied by the Standard Edit File (SEF), an indicator of pruning t

Entity Name: STAND (cont'd)

Short Name:STAND

reatment. This indicator (Y/N) is not normally sufficient to describe the more rigorous treatment scheme and record keeping applied to plots (experimental units) of an experiment. This attribute should only be used to retain the legacy Inventory Branch data. Later enhancements to this database application will reflect a relationship to a TREATMENT (Ver. 1 LDM). A TREATMENT would apply to a STAND or a PLOT CLUSTER and would be keyed by a date (unavailable in the SEF legacy data).

<< 1998-03-27-13:04 sourced from:346868:347307 >>

SEF THIN INDINDICATOR

Y VARCHAR21

As supplied by the Standard Edit File (SEF), an indicator of thinning treatment. This indicator (Y/N) is not normally sufficient to describe the more rigorous treatment scheme and record keeping applied to plots (experimental units) of an experiment. This attribute should only be used to retain the legacy Inventory Branch data. Later enhancements to this database application will reflect a relationship to a TREATMENT (Ver. 1 LDM). A TREATMENT would apply to a STAND or a PLOT CLUSTER and would be keyed by a date (unavailable in the SEF legacy data).

<< 1998-03-27-13:04 sourced from:346868:347305 >>

TREE SPECIES CD

Y VARCHAR24

A code for the tree genus; often genus and species codes are used together. The MOF Tree Species in code table can be subsetted for this purpose.

Applicable to Volume and Decay samples only.

OT_S Not on HH or SEF, Used on Volume & Decay samples; only known source is Volume & Decay

<< 1998-03-27-13:04 sourced from:346868:346820 >>

TREE SPECIES COMPSTN

Y NUMBER2,0

<< 1998-03-27-13:04 sourced from:346868:346814 >>

Data Administration
Entity Definition Report

Entity Name: STEM		<i>Short Name:</i> STEM	
<i>Plural:</i> STEMS			
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>

Description:

The principle axis of a plant from which buds, branches and shoots develop.

The use of this term is intended to include both smaller diameter trees (poles) and those of substantial thickness (boles). There maybe more than one stem per tree where forking has occured and the consequent multiple stems retain predominance.

AttrIBUTES:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
STEM SKEY	SKEY 7	N	NUMBER	7,0
The surrogate system identifier for a tree section.				

Populated by sequence STEM_SEQ.

LEADER ID	N	NUMBER	5,0
The business identifier of the stem.			

STEM TYPE	STEM TYPE	N	VARCHAR2	5
The identification of a stem in the field as the main bole or a secondary fork.				

This originates in the Resources Inventory Branch Volume and Decay sampling program where each stem is designated as such.

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE bucked into one or more SECTIONS
- MAY BE containing one or more WOOD ANOMALY BODIES
- MUST BE a component of one and only one TREE MEASUREMENT
- * = Relationships in primary unique identifier.

Entity Name:	STOCK RANGE UNIT	<i>Short Name:</i>	SRU
<i>Plural:</i>	STOCK RANGE UNITS		
<i>Init. Volume:</i>	1299	<i>Avg. Volume:</i>	3000
		<i>Max. Volume:</i>	5000
		<i>Annual Growth Rate:</i>	

Description:

Stock Range, a gazetted area that is the highest administrative level containing Range Unit, and Range Pasture are used to summarize general range management activities, forage activity. range utilization, invader/weed species inventory, etc.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* STOCK_SKEY	SKEY 7	N	NUMBER	7,0
The system identifier for the Stock Range Unit				
<< 1998-03-26-17:26 sourced from:236464:605852 >>				
STOCK_RANGE_UNIT_ID		N	NUMBER	7,0
Reverse Engineered from column STOCK_RANGE_UNIT_ID of table STOCK_RANGE_UNITS				
<< 1998-03-26-17:26 sourced from:236464:605853 >>				
NAME		Y	VARCHAR2	50
The name of the STOCK RANGE UNIT.				

<< 1998-03-26-17:26 sourced from:236464:605854 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE spatially containing one or more GIS RESULTANTS

* = Relationships in primary unique identifier.

Unique Identifiers:

SRU1	Primary	Y
STOCK_SKEY		

<< 1998-03-26-17:26 sourced from:236464:605844 >>

Entity Name:	SUBPOPULATION	<i>Short Name:</i>	SUBP
<i>Plural:</i>	SUBPOPULATIONS		
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	1000
		<i>Max. Volume:</i>	2000
		<i>Annual Growth Rate:</i>	5%

Description:

A set of tree, biomass or flora characteristics and their associated minimum and maximum values used to define a subpopulation of a sample or experimental unit.

NB: multiple relationships of the same cardinality to the entity SEF SUBPOP LOAD RULE are retained for the purposes of keeping existing Business Rule functionality. After load of all SEF data, appropriate attribution to SEF SUBPOP LOAD RULE should be added and redundant relationships eliminated. JH, 98-11

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
BUSINESS ID	CHAR 8	Y	VARCHAR2	8
A code value used in the source data to uniquely identify a SUBPOPULATION.				

For example, SEF uses a series of up to 9 data elements defined in the SEF_SUBPOPULATION_LOAD_RULES to resolve to a single SUBPOPULATION. Some data sources , such as the FIP/VIFF specification, use a data element referencing this identifier to resolve to a single SUBPOPULATION.

If a business id is defined for a subpopulation, it MUST be unique.

Entity Name:	SUBPOPULATION (cont'd)	Short Name:	SUBP
---------------------	------------------------	--------------------	------

<< 1998-03-27-10:11 sourced from:346868:597918 >>

* SUB POP SKEY	SKEY 7	N NUMBER	7,0
<< 1998-03-27-10:11 sourced from:346868:524119 >>			

TREE SPP GRP CD LEGACY	Y VARCHAR2	10
------------------------	------------	----

The legacy data for the earlier version of a foriegn key reference to

a now-obsolete table, TREE SPP GROUP CODEs.

The above foreign key relationship is replaced by the same

relationship to SPECIES GROUP DEFINITION in the DRM model.

The inclusion of this legacy foriegn key column is to aid in the

transition of the production data.

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE be referenced on load one or more SEF SUBPOP LOAD RULES
MAY BE be referenced on load one or more SEF SUBPOP LOAD RULES
MAY BE be referenced on load one or more SEF SUBPOP LOAD RULES
MAY BE be referenced on load one or more SEF SUBPOP LOAD RULES
MAY BE defining the population for one or more BIOMETRIC DESIGN SPECIFICATIONS
MAY BE partially defined by one and only one SPECIES GROUP DEFINITION
MAY BE the subject of one or more DENSITY ASSESSMENTS
* = Relationships in primary unique identifier.

Unique Identifiers:

SUBP2	Primary N
BUSINESS ID	
SUBP1	Primary Y
SUB POP SKEY	

Notes:

<< 1998-03-27-10:11 sourced from:346868:524118 >>

Subtypes:

DESCRIPTION BASED SUBPOPULATION

Data Administration
Entity Definition Report

Entity Name:	SUBPOPULATION (cont'd)	<i>Short Name:</i>	SUBP
---------------------	------------------------	--------------------	------

TREE SUBPOPULATION

Entity Name: SUCCESSION INTERPRETATION			<i>Short Name:</i>	SI
<i>Plural:</i>	SUCCESSION INTERPRETATIONS			
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>	
<i>Subtype of:</i>	NON TREE ELEMENT ASSMT			

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SUCCESSION INT SKEY		N	NUMBER	7,0
System generate UID from ORACLE sequence SUCCESSION_INT_SEQ.				

<< 1998-03-26-16:28 sourced from:7003:537123 >>

TREE HARVESTING CD	TREE HARVESTING ACTIVITY CLASS	Y	VARCHAR2	1
A generalized observation of the presence of tree harvesting activity.				

<< 1998-03-26-16:28 sourced from:7003:221039 >>

SNAGS CD	SNAGS CLASS	Y	VARCHAR2	1
The classification of snags greater than 25 cm dbh.				
Meant to apply to a 25m radius plot size; if the plot size is later modified, the relative terms may require re-naming or be quantified.				

<< 1998-03-26-16:28 sourced from:7003:221040 >>

CWD IN ALL DECAY STAGES CD	SNAGS CWD DECAY CLASS	Y	VARCHAR2	1
The observation where coarse woody debris and or snags are a continous process.				

<< 1998-03-26-16:28 sourced from:7003:221042 >>

CANOPY GAPS FROM TREE MORTALITY CD	CANOPY GAPS FROM MORTALITY CLASS	Y	VARCHAR2	1
The assessment of tree canopy gaps in from tree mortality.				

<< 1998-03-26-16:28 sourced from:7003:221043 >>

VERTICAL STRUCTURE CD	VERTICAL STRUCTURE CLASS	Y	VARCHAR2	1
A generalized estimation of the distribution of shrub and tree layer strata.				

Entity Name: SUCCESSION INTERPRETATION (cont'd)

Short Name: SI

<< 1998-03-26-16:28 sourced from:7003:221044 >>

SUCCESSIONAL STABILITY CD

SUCCESSIONAL STABILITY CLASS

Y VARCHAR21

An observation of the stability of succession of tree species composition.

<< 1998-03-26-16:28 sourced from:7003:221045 >>

TREE AGE FOR SPECIES SITE CD

COMPARATIVE TREE AGE TO SITE CLASS

Y VARCHAR21

The generalized observation that the trees are old for the site conditions and species.

<< 1998-03-26-16:28 sourced from:7003:221046 >>

TREE SIZE FOR SPECIES SITE CD

COMPARATIVE TREE HEIGHT TO SITE CLASS

Y VARCHAR21

The generalized comparative observation of the trees' age in to the site conditions and seral stage.

<< 1998-03-26-16:28 sourced from:7003:221047 >>

OLD GROWTH FOREST CD

OLD GROWTH EVALUATION CLASS

Y VARCHAR21

An evaluation as to whether the stand conditions constitute 'old growth'. This is a subjective determination based on the aggregate of the evaluation of all other seral stage features.

<< 1998-03-26-16:28 sourced from:7003:221049 >>

LIVE OLD TREES PCT

PERCENTAGE 100

Y NUMBER3,0

The percentage of live, old trees remaining.

<< 1998-03-26-16:28 sourced from:7003:221050 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE includes one or more TREE SPECIES SUCCESSIONS

MAY BE includes one or more VEGETATION ESTAB ASSMTS

MAY BE referencing one and only one SERAL STAGE CLASS CD

* = Relationships in primary unique identifier.

Unique Identifiers:

SI1

Primary Y

SUCCESSION INT SKEY

Entity Name: SUCCESSION INTERPRETATION (cont'd)	Short Name: SI
--	-----------------------

Notes:

<< 1998-03-26-16:28 sourced from:7003:218989 >>

Entity Name:	TAXONOMIC ASSOCIATION	<i>Short Name:</i>	TASS
<i>Plural:</i>	TAXONOMIC ASSOCIATIONS		
<i>Init. Volume:</i>	7258	<i>Avg. Volume:</i>	12000
		<i>Max. Volume:</i>	20000
		<i>Annual Growth Rate:</i>	

Description:

The assciation of a TAXONOMIC code to its parent (one or more)

and its children (one or more).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE a child occurence of one and only one TAXONOMIC NAME
 - * MUST BE a parent occurence one and only one TAXONOMIC NAME
- * = Relationships in primary unique identifier.

Unique Identifiers:

TASS1	Primary	Y
MUST BE a parent occurence one and only one TAXONOMIC NAME		
MUST BE a child occurence of one and only one TAXONOMIC NAME		

Notes:

<< 1998-03-26-17:27 sourced from:236464:540731 >>

Entity Name:	TAXONOMIC LEVEL	<i>Short Name:</i>	TXLVL
<i>Plural:</i>	TAXONOMIC LEVELS		
<i>Init. Volume:</i>	10	<i>Avg. Volume:</i>	25
		<i>Max. Volume:</i>	25
		<i>Annual Growth Rate:</i>	1%

Description:

The groups used in taxonomic classification. Examples would be:

Kingdom,

Phylum,

Subphylum,

Class,

Subclass,

Order,

Family,

Genus,

Species,

Subspecies,

Variation.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TAXA LEVEL SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-26-17:27 sourced from:236464:544119 >>				
LEVEL CD		N	VARCHAR2	25
A code used to represent the Taxonomic clasifcation level fully				
desribed/named in the Description attribute.				
<< 1998-03-26-17:27 sourced from:236464:544127 >>				
DESCRIPTION		N	VARCHAR2	50
Full desriptive name of the classification level.				
<< 1998-03-26-17:27 sourced from:236464:382101 >>				
LEVEL SEQ NUM		Y	NUMBER	3,0

Entity Name:	TAXONOMIC LEVEL (cont'd)	Short Name:	TXLVL
---------------------	--------------------------	--------------------	-------

The numeric code used to sequence the level cds when sorting for
report purposes.

<< 1998-03-26-17:27 sourced from:236464:382100 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a category of one or more TAXONOMIC NAMES
- MAY BE consists of one or more TAXONOMIC LEVELS
- MAY BE part of one and only one TAXONOMIC LEVEL
- * = Relationships in primary unique identifier.

Unique Identifiers:

TXLVL1	Primary	Y
TAXA LEVEL SKEY		

Notes:

<< 1998-03-26-17:27 sourced from:236464:381486 >>

Entity Name:	TAXONOMIC NAME	<i>Short Name:</i>	TAXC
<i>Plural:</i>	TAXONOMIC NAMES		
<i>Init. Volume:</i>	7263	<i>Avg. Volume:</i>	10000
		<i>Max. Volume:</i>	15000
		<i>Annual Growth Rate:</i>	2%

Description:

Tree species, vegetation species and the botanical order to which they belong; species are identified by their botanical name and common name.

There is a generally accepted botanical definition of native 'trees' (as opposed to shrubs).

The biggest issue is that the MOF code list contains multiple codes for the same tree species and will, in time require rationalization.

A! In hindsight a better name would be better TAXONOMIC MEMBER

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TAXONOMIC CD SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-26-17:27 sourced from:236464:325446 >>				
LATIN NAME		N	VARCHAR2	65
The Latin name that describes the taxa.				
<< 1998-03-26-17:27 sourced from:236464:436105 >>				
COMMON NAME		N	VARCHAR2	50
The common name of the plant species.				
<< 1998-03-26-17:27 sourced from:236464:325443 >>				
LONG CD		Y	VARCHAR2	8

Entity Name:	TAXONOMIC NAME (cont'd)	Short Name:	TAXC
---------------------	-------------------------	-------------	------

The long code which identifies the species. Applies to all plant species and is usually formed by the concatenation of the first four letters of the genus name and the first four letters of the species name.

The codes are from the Research Branch, 1997 Plant Species List.

<< 1998-03-26-17:27 sourced from:236464:374963 >>

LONG CODE TYPE	LATIN CODE TYPE	Y	VARCHAR2
Signifies whether the derived code is a Synonym for the actual latin name of the scientific name, the actual latin name or a excluded species			
<i>Input june 19th, 2001... RGH update to Taxonomic Names table to research</i>			

NEW LONG CD	Y	VARCHAR2	8
Researches updated new codes..			

SHORT CD	Y	VARCHAR2	4
The short code, often refered to as the 'field code', which identifies the species. Usually applies to tree species.			

The codes are from the Research Branch, 1997 Tree List.

<< 1998-03-26-17:27 sourced from:236464:328171 >>

NATIVE TO BC CD	NATIVE BC SPECIES	Y	VARCHAR2
The designation of native plant species in British Columbia.			

It appears that some codes contain common meaning; no effort was made to unravel or normalize the values.

Code values from the Research Branch, 1997 Plant Species List.

Entity Name:	TAXONOMIC NAME (cont'd)	Short Name:	TAXC
--------------	-------------------------	-------------	------

Denotes that the species, to the VARIETY level, is indigenous to B.C.

<< 1998-03-26-17:27 sourced from:236464:374964 >>

AUTHORITY SITED	Y	VARCHAR2	60
-----------------	---	----------	----

The authority, cited in a professional journal, that is the source of

the determination of species name.

Sourced from the 1997 Research Branch Plant Species list.

<< 1998-03-26-17:27 sourced from:236464:541260 >>

MULTI LIFEFORM	Y	VARCHAR2	20
----------------	---	----------	----

Where a species long code is associated with more than one life form
Input june 19th, 2001... RGH
update to Taxonomic Names table to research

LIFEFORM CD	RESEARCH LIFEFORM	Y	VARCHAR2	2
-------------	-------------------	---	----------	---

Research Branches growth form of the species...

Note we use Species groups that are different code numbers. mapping is as follows

Species_Group_Cd match to Lifeform Code Description

2 (Tree) (1) coniferous trees & (2) Broadleave trees
9 (Shrub) (3) evergreen shrubs & (4)Deciduous shrubs
5 (Herb) (5) ferns & (6) grammoids & (7) forbs & (8) Parasite & (12)Dwarf Woody Plants
6 (Moss) (9) Mosses
7 (Lichen) (11) Lichens
8 (Liverworts) (10) Livrwords
13 (Macroalgae)(13) Macroalgae added.. June 11th (2001)

Our 3(ShortShrubs)- 4(TallShrubs)
codes mapped out of our 9 code
(broken down by layer column in Taxonomic Names) -

Input june 19th, 2001... RGH
update to Taxonomic Names table to research

LAYER CD	TAXONOMIC LAYER	Y	VARCHAR2	6
----------	-----------------	---	----------	---

Explanation of Layers (or how to determine tall-shortshrub)

Here is the scale from top to bottom (I like to think this in terms of height):
A tallest
B1
B2
C
D (all D layers are equivalent) shortest

Notes:
Layer A may include only layer A species codes.
Layer B1 may include species from layers A and B1, except for cards RS4/RT5 - cards
RS4/RT5 may include only B1 species.

Data Administration
Entity Definition Report

Entity Name: TAXONOMIC NAME (cont'd)		Short Name:	TAXC
Layer B2 may include species from layers A, B1 and B2. Layer C may include only layer C species. Layer D may include only layer D species, except for card ET14 which may include layer A species - only on card ET14. Bob Khran.. (June1,2001) <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>			
CLIMATE climate types <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH CLIMATE	Y VARCHAR2	1
ESTIMATE SOIL MOISTURE soil moisture regime <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH SMR	Y VARCHAR2	1
ESTIMATE SOIL NUTRIENT soil nutrient regime <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH SNR	Y VARCHAR2	1
GROUND SURFACE MATERIAL ground surface material <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH GSM	Y VARCHAR2	
WEED STATUS species considered invasive plants <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH WEED STATUS	Y VARCHAR2	1
WETLAND INDICATOR wetland and riparian indicator status of species <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH WETLAND INDICATOR	Y VARCHAR2	1
RED BLUE LIST species included on the Provincial Vascular Plant Tracking List <i>Input june 19th, 2001... RGH</i> <i>update to Taxonomic Names table to research</i>	RESEARCH RED BLUE	Y VARCHAR2	1
* = Attributes in primary unique identifier.			

Relationships:

Each Occurrence Of This Entity:

- MAY BE a child of one or more TAXONOMIC ASSOCIATIONS
- MAY BE a member of one or more GROUP TAXON MEMBERSHIPS
- MAY BE a parent of one or more TAXONOMIC ASSOCIATIONS
- MAY BE botanical identifier for one or more VDYP APPLICATION BOUNDS
- MAY BE botanically identifying one or more SITE INDEX COEFFICIENT SETS
- MAY BE botanically identifying one or more TREE VOLUME COEFFICIENT SETS
- MAY BE further describes one or more PHENOLOGIES
- MAY BE further describes one or more TOXIC PLANTS
- MAY BE graded by one or more SPECIES GRADE CDS

Entity Name:	TAXONOMIC NAME (cont'd)	Short Name:	TAXC
---------------------	-------------------------	-------------	------

MUST BE defined for one and only one TAXONOMIC LEVEL
* = Relationships in primary unique identifier.

Unique Identifiers:

TAXC1	Primary	Y
TAXONOMIC CD SKEY		

Notes:

<< 1998-03-26-17:27 sourced from:236464:325427 >>

Entity Name: TECHNIQUE CD				<i>Short Name:</i>	STC
<i>Plural:</i>	SILV TECHNIQUE CODES				
<i>Init. Volume:</i>	500	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	500
<i>Subtype of:</i>	SILVICULTURE ACTIVITY CD				
				<i>Annual Growth Rate:</i>	1%

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TECHNIQUE CD		N	VARCHAR2	2
<< 1998-03-26-11:52 sourced from:236464:436128 >>				
* = Attributes in primary unique identifier.				

Unique Identifiers:

STC1	Primary	Y
TECHNIQUE CD		

Notes:

<< 1998-03-26-11:52 sourced from:236464:435911 >>

Entity Name:	TEXT FILE VERSION			<i>Short Name:</i>	TFV
<i>Plural:</i>	TEXT FILE VERSIONS				
<i>Init. Volume:</i>	7000	<i>Avg. Volume:</i>	20000	<i>Max. Volume:</i>	40000
				<i>Annual Growth Rate:</i>	20%

Description:

The electronic file version of the main text file that contains forest inventory data. Typically, this would be the FIP file that contains the forest cover data and also a static overlay of the themes that may bisect a forest cover polygon.

It should be noted that the forest cover (FIP) file does not necessarily contain all the text data associated with each theme (level), but has sufficient content to serve a variety of users and summary applications.

Note: (98-03) Future consideration should be given to amalgamating the TEXT FILE VERSION with the VEG COVER application entity, VERSION AUDIT METADATA. These describe the same busines object, metadata of a version release, but from differing perspectives. No amalgamation undertaken at this writing on account of time constraints of implementation.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TEXT FILE SKEY	The surrogate identifier for a text file (FIP).	N	NUMBER	7,0
System generated UID from sequence number, TEXT_FILE_SEQ.				
<< 1998-03-25-16:59 sourced from:416792:432461 >>				
SERIAL NUM DATE	The date simutaneously assigned to a graphics file and its associated	N	DATE	

Entity Name: TEXT FILE VERSION (cont'd)

Short Name: TFV

text file for the purpose of uniquely identifying a version.

This attribute is one of three components of the compound business key, file 'Serial Number'. The three components in their commonly used order are:

- Mapsheet Id (BCGS 6x12 MAPSHEET ID)
- SERIAL NUM DATE
- SERIAL VERSION NUM.

The SERIAL NUM DATE is assigned at the time of creation of the 'resultants', (forest cover polygons bisected by multiple themes in the '.EDI file) and their integration with the text file. Assignment is made by a controlled process on a secure, multiuser system, and therefore, the date retains integrity unlike those sourced from the stand-alone PC systems.

Also known as GRAPHICS CREATION DATE in the FIP file, though a misnomer.

<< 1998-03-25-16:59 sourced from:416792:435540 >>

SERIAL VERSION NUM

N NUMBER4,0

The number simutaneously assigned to a graphics file and its associated text file for the purpose of uniquely identifying a version.

This attribute is one of three components of the compound business key, file 'Serial Number'. The three components in their commonly used order are:

Entity Name:	TEXT FILE VERSION (cont'd)	Short Name:	TFV
---------------------	----------------------------	-------------	-----

Mapsheet Id (BCGS 6x12 MAPSHEET ID)

SERIAL NUM DATE

SERIAL VERSION NUM.

The SERIAL VERSION NUM is assigned at the time of creation of the 'resultants', (forest cover polygons bisected by multiple themes in the '.EDI file) and their integration with the text file.

It should be noted that despite the intention of this attribute contributing to the business key identifier, SERIAL VERSION NUM appears to be of limited usefulness. Firstly, the Mapsheet Id and the SERIAL NUM DATE (above) provide all the unique identification required, and secondly, the Object Distribution Management system (ODM) creates a version number based on checking in/out for data maintenance that is independently assigned. This confusion, borne of a disconnected activities, causes loss of integrity for business use.

No other business meaning such as release, revision date, processing date is inferred.

<< 1998-03-25-16:59 sourced from:416792:426748 >>

RELEASE DATEY DATE

The date the FIP file was last updated as part of the 'completion' process. The 'completion' process derives stand tree species volumes and projects them to a specified date).

Entity Name: TEXT FILE VERSION (cont'd)

Short Name:

TFV

Also termed the 'Last Update Date' in the lexicon of the FIP Data Dictionary.

Not currently supplied in the MUMS 1.0 flat file version.

NB; the name could be changed on presentation on forms.

<< 1998-03-25-16:59 sourced from:416792:421315 >>

FIP LATEST REFERENCE DATE

Y DATE

From the FIP file, the most recent calendar year in which the attribution of the forest cover layer was determined.

A polygon can have many layers, each with a different Reference Year; the MUMS file creation routine extracts the most recent Reference Year of all layer of all polygons in a text (FIP) file. Text files are created for each 6' x 12' mapsheet graphics file.

<< 1998-03-25-16:59 sourced from:416792:464823 >>

DISK FARM CREATE DATE

Y DATE

The date the file was created on the disk farm which may be different from either the Release Date and the Serial Num Date.

<< 1998-03-25-16:59 sourced from:416792:444970 >>

NA PRESENCE IND

INDICATOR DEFAULT N

N VARCHAR2

1

The indication of the presence of any polygons attributed as ' Not Applicable'. This typically applies only to forest cover. 'NA' represents areas where forest cover classification is not expected. Such areas would be saltwater, another provinces or state etc.

<< 1998-03-25-16:59 sourced from:416792:464828 >>

Entity Name: TEXT FILE VERSION (cont'd)				Short Name:	TFV
FOREST COVER PRESENCE IND	INDICATOR DEFAULT Y	N	VARCHAR2	1	
<< 1998-03-25-16:59 sourced from:416792:464830 >>					
NTA PRESENCE IND	INDICATOR DEFAULT N	N	VARCHAR2	1	
The indication of the presence of any polygons attributed as ' No					
Typing Available'. This typically applies only to forest cover.					
'NTA' represents areas where forest cover classification					
is expected, but was not provided. Such areas would be parks, Tree					
Farm Licences (on an interim basis), etc.					
<< 1998-03-25-16:59 sourced from:416792:464829 >>					
ODM OBJECT STATE CD	ODM OBJECT STATE	N	VARCHAR2	3	
The status of the electronic file with respect to update and revision					
as supplied from the Object Distribution Management system.					
<< 1998-03-25-16:59 sourced from:416792:437804 >>					
INVENTORY STANDARD CD	INVENTORY STANDARD	Y	VARCHAR2	5	
The standard to which the inventory data was collected. The two known					
'standards' are the FIP, Forest Inventory Planning (file), which					
embraces many standards, and the Vegetation Inventory (VEG).					
May not be implemented until there is a definitive code set and source					
to obtain this information. May also be linked to a more complete					
documentation of the procedure manuals being on-line.					
<< 1998-03-25-16:59 sourced from:416792:421316 >>					
CREATE DATE		N	DATE		
<< 1998-03-25-16:59 sourced from:416792:492803 >>					
MODIFY DATE		Y	DATE		
<< 1998-03-25-16:59 sourced from:416792:492804 >>					
CREATE USER ID		N	VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:492805 >>					

Entity Name:	TEXT FILE VERSION (cont'd)	Short Name:	TFV
MODIFY USER ID	Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492806 >>			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE a member of one or more GRAPHICS TEXT FILE PAIRS
- MAY BE commented by one or more QUALITY ASSURANCE ASSNS
- MAY BE containing overlay data for one or more THEME VERSIONS
- MAY BE the object of one or more DATA RECONCILLIATION ERRORS
- MUST BE representing data for one and only one MAPSHEET COMPONENT

* = Relationships in primary unique identifier.

Unique Identifiers:

TFV2	Primary	N
MUST BE representing data for one and only one MAPSHEET COMPONENT		
SERIAL NUM DATE		
SERIAL VERSION NUM		
TFV1	Primary	Y
TEXT FILE SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:418266 >>

Entity Name: TFL BLOCK MAPSHEET ASSN			<i>Short Name:</i>	TBMA
<i>Plural:</i>	TFL BLOCK MAPSHEET ASSNS			
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i> 1000
			<i>Annual Growth Rate:</i>	1%

Description:

The association of Tree Farm Licence Blocks with a mapsheet. This association of areal features is a rough approximation which is used for assignment of the appropriate waste, decay and breakage factors that are applied on a TFL block specific basis by the Variable Density Yield Prediction (VDYP) model.

There is no inherent attribution.

Populated from Appendix G of the Mapsheet/TFL Block Associations of the VDYP Batch Application User Guide.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE default value for one and only one MAPSHEET COMPONENT
- * MUST BE default value for one and only one TFL CD
- * = Relationships in primary unique identifier.

Unique Identifiers:

TBMA1	Primary	Y
MUST BE default value for one and only one TFL CD		
MUST BE default value for one and only one MAPSHEET COMPONENT		

Notes:

<< 1998-04-29-17:43 sourced from:236464:779638 >>

Entity Name:	TFL CD	Short Name:	TFLC
Plural:	TFL CODES		
Init. Volume:	100	Avg. Volume:	100
		Max. Volume:	100
		Annual Growth Rate:	1%

Description:

Tree Farm License code.

Attributes:				
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TFL SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				

Generated by the sequence TFL_SEQ

<< 1998-04-29-17:43 sourced from:236464:779645 >>

TFL BLOCK NUM	Y	NUMBER	4,0
An areal subdivision of a Tree Farm Licence.			

<< 1998-04-29-17:43 sourced from:236464:779647 >>

TFL NUM	N	NUMBER	4,0
The Ministry assigned numeric identifier of TreeFarm License.			

<< 1998-04-29-17:43 sourced from:236464:440349 >>

TFL NAME	N	VARCHAR2	50
Full name for the TFL.			

<< 1998-04-29-17:43 sourced from:236464:440350 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE containing one or more THEME AREA SUMMARIES
- MAY BE covering a portion of one and only one TFL CD
- MAY BE identifying one or more TFL BLOCK MAPSHEET ASSNS
- MAY BE spatially containing one or more GIS RESULTANTS
- MAY BE subdivided into blocks one or more TFL CODES

* = Relationships in primary unique identifier.

Unique Identifiers:

Data Administration
Entity Definition Report

Entity Name: TFL CD (cont'd)		<i>Short Name:</i> TFLC	
TFLC1	<i>Primary</i>	Y	
<i>TFL SKEY</i>			

Notes:

<< 1998-04-29-17:43 sourced from:236464:440343 >>

Entity Name:	THEME	Short Name:	THE
Plural:	THEMES		
Init. Volume:	100	Avg. Volume:	500
		Max. Volume:	1000
		Annual Growth Rate:	2%

Description:

A single objective for the collection of data, with an implied geographic context. For example, forest cover has areal coverage and text data, and is considered a separate objective from the field based activity of collecting data from samples in the same location.

Also termed Feature Code, though this needs to be rationalized as the geographic information users tend to use Theme.

AttrIBUTES:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* THEME SKEY	The surrogate identifier of a theme.	N	NUMBER	7,0
System generated from the Oracle sequence, THEME SEQ.				
<< 1998-03-25-16:59 sourced from:416792:421319 >>				
THEME DESC		Y	VARCHAR2	150
A description of the theme content; e.g. Forest Cover, Operability, Visual Quality Objectives etc.				
<< 1998-03-25-16:59 sourced from:416792:432476 >>				
FC1 LEVEL NUM	FC1 LEVEL ID	Y	NUMBER	3
The business assigned level number that identifies a theme in the IGDS files.				
<< 1998-03-25-16:59 sourced from:416792:421320 >>				
MINIMUM POLYGON ID		Y	NUMBER	6
The minimum identifying number assigned to polygons of the theme.				
<< 1998-03-25-16:59 sourced from:416792:437835 >>				
MAXIMUM POLYGON ID		Y	NUMBER	6

Entity Name:	THEME (cont'd)	<i>Short Name:</i>	THE
---------------------	----------------	--------------------	-----

The maximum identifying number that would be assigned to polygons of the theme.

<< 1998-03-25-16:59 sourced from:416792:437836 >>

DEFAULT VALUE	Y	VARCHAR2	25
---------------	---	----------	----

The business defined default value for the theme level (overlay).

This can vary according to a number of business practises; for some levels an 'N' is a default, for others, there maybe as series of dashes filling in the places.

The presence of a default, that is, to whether occurs on a level, is indicated by the Theme Version.Default Value Presence Ind.

<< 1998-03-25-16:59 sourced from:416792:438274 >>

CREATE DATE	N	DATE
-------------	---	------

<< 1998-03-25-16:59 sourced from:416792:492807 >>

MODIFY DATE	Y	DATE
-------------	---	------

<< 1998-03-25-16:59 sourced from:416792:492808 >>

CREATE USER ID	N	VARCHAR2	30
----------------	---	----------	----

<< 1998-03-25-16:59 sourced from:416792:492809 >>

MODIFY USER ID	Y	VARCHAR2	30
----------------	---	----------	----

<< 1998-03-25-16:59 sourced from:416792:492810 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE a member in one or more THEME GROUP MEMBERSHIPS
MAY BE subject to one or more ROLE ASSOCIATIONS
MAY BE the subject of one or more THEME VERSIONS
* = Relationships in primary unique identifier.

Unique Identifiers:

THE1	Primary	Y
THEME SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:418272 >>

Entity Name: THEME AREA SUMMARY				<i>Short Name:</i>	TAS
<i>Plural:</i>	THEME AREA SUMMARIES				
<i>Init. Volume:</i>	50000	<i>Avg. Volume:</i>	60000	<i>Max. Volume:</i>	100000
				<i>Annual Growth Rate:</i>	10%

Description:

Summary level metadata and statistics of selected themes (overlay or level) for each unique attribute value of a given theme. Theme area summaries can be in the form of an area summary or the presence/absence of a spatial business object (e.g. Forest Region, District). Presence/absence is indicated by an association with no business attributes populated.

The attribute value is supplied by a procedural (non-declarative) association with Theme Attribute Validation Rule.

There will be two ways to populate entries:

- determination of default values are by way of business knowledge or
- as a derived statistic representing all polygons of the same attribute value.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* THEME ATTRIBUTE SKEY		N	NUMBER	7,0
The surrogate indentifier for an occurence of an attribute summary for a theme version.				
Populated from an Oracle sequence, THEME ATTRIBUTE SEQ.				
<< 1998-03-25-16:59 sourced from:416792:435283 >>				
DATA CREATION CATEGORY CD	DATA CREATION	N	VARCHAR2	5

Entity Name:

THEME AREA SUMMARY (cont'd)

Short Name:

TAS

CATEGORY

The category under which an attribute value was assigned to the group

of summarized polygons. Known examples are;

default,

business assigned (ie. explicit business meaning) and

unknown.

<< 1998-03-25-16:59 sourced from:416792:421326 >>

ATTRIBUTE VALUE COVERAGE PCT	PERCENTAGE 100	Y	NUMBER	3,0
------------------------------	----------------	---	--------	-----

The percentage of the mapsheet that is described by the theme

attribute value. This would summarize all polygons of the same

attribute value.

Derived from the quality assurance software and the Map Area.

<< 1998-03-25-16:59 sourced from:416792:421328 >>

ATTRIBUTE VALUE COVERAGE AREA	6 X 12 MAP AREA	Y	NUMBER	8,3
-------------------------------	-----------------	---	--------	-----

The area of the mapsheet that is described by the theme

attribute value. This would summarize all polygons of the same

attribute value.

Derived from the quality assurance software process.

<< 1998-03-25-16:59 sourced from:416792:421330 >>

ATTRIBUTE IDENTIFIER VALUE		N	VARCHAR2	25
----------------------------	--	---	----------	----

The value that identifies the specific SPATIAL BUSINESS OBJECT

for which values are being recorded.

eg. For TSA 39, the attribute identifier value would be 39 and the

attribute value coverage percent and/or attribute value coverage area

Entity Name:	THEME AREA SUMMARY (cont'd)	Short Name:	TAS
---------------------	-----------------------------	--------------------	-----

would be set from the incoming source data.

<< 1998-03-25-16:59 sourced from:416792:506318 >>

CREATE DATE	N	DATE	
MODIFY DATE	Y	DATE	
MODIFY USER ID	Y	VARCHAR2	30
CREATE USER ID	N	VARCHAR2	30

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE belonging to one and only one REGULATED FOREST AREA
- MAY BE belonging to one and only one TFL CD
- MAY BE belonging to one and only one TSA CD
- MUST BE a recording of one and only one SPATIAL BUSINESS OBJECT
- MUST BE recording statistics for one and only one THEME VERSION
- MUST BE the subject of an activity by one and only one ROLE ASSOCIATION

* = Relationships in primary unique identifier.

Unique Identifiers:

TAS2	Primary	N
MUST BE the subject of an activity by one and only one ROLE ASSOCIATION		
MUST BE recording statistics for one and only one THEME VERSION		
MUST BE a recording of one and only one SPATIAL BUSINESS OBJECT		
TAS1	Primary	Y
THEME ATTRIBUTE SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:418212 >>

Entity Name:	THEME GROUP	Short Name:	TGRP
Plural:	THEME GROUPS		
Init. Volume:	100	Avg. Volume:	500
		Max. Volume:	1000
		Annual Growth Rate:	1%

Description:

A collection of themes as used by the business.

The most predominant example is the so termed 'Base', which in business practice is composed of single line creeks (level 5), double line rivers and lakes (level 6), roads (level 8) and the neatlines (level 62).

This entity is also expected to accomodate the parentage of themes that in time, are split apart into finer categories of business resolution. The use of toponomy may be such an example, where currently it is included in the 'base' for example, but may be later contained on a separate theme. An example of this currently is that there is no way to retrieve 'Vancouver Island' based data.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* THEME GROUP SKEY		N	NUMBER	7,0
System generated identifier (surrogate key)				
<< 1998-03-25-16:59 sourced from:416792:613193 >>				
NAME		N	VARCHAR2	20
The identifying name or "handle" of the grouping of themes.				
<< 1998-03-25-16:59 sourced from:416792:613332 >>				
DESCRIPTION		Y	VARCHAR2	75
The description of the theme group.				
For example:				
slope, aspect and elevation are commonly grouped and the source themes would be retained as the description of the Theme Group.				
<< 1998-03-25-16:59 sourced from:416792:613197 >>				

Entity Name: THEME GROUP (cont'd)		Short Name:	TGRP
CREATE DATE	N DATE		
<< 1998-03-25-16:59 sourced from:416792:506234 >>			
CREATE USER ID	N VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:506235 >>			
MODIFY DATE	Y DATE		
<< 1998-03-25-16:59 sourced from:416792:506236 >>			
MODIFY USER ID	Y VARCHAR2	30	
<< 1998-03-25-16:59 sourced from:416792:506237 >>			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE defined by one or more THEME GROUP MEMBERSHIPS
MAY BE the subject of one or more THEME VERSIONS
* = Relationships in primary unique identifier.

Unique Identifiers:

TGRP2	Primary	N
NAME		
TGRP1	Primary	Y
THEME GROUP SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:505445 >>

Entity Name: THEME GROUP MEMBERSHIP				<i>Short Name:</i>	TGM
<i>Plural:</i>	THEME GROUP MEMBERSHIPS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	5000
				<i>Annual Growth Rate:</i>	1%

Description:

The association of a number of Themes into a single group.

<i>Attutes:</i>					
<u>Name</u>		<u>Domain</u>		<u>Opt</u>	<u>Format</u>
					<u>Length</u>
* = Attributes in primary unique identifier.					

- Relationships:*
- Each Occurrence Of This Entity:
- * MUST BE contains one and only one THEME
 - * MUST BE contains themes for one and only one THEME GROUP
- * = Relationships in primary unique identifier.

<i>Unique Identifiers:</i>		
TGM1	<i>Primary</i>	Y
<i>MUST BE contains one and only one THEME</i>		
<i>MUST BE contains themes for one and only one THEME GROUP</i>		

Notes:

<< 1998-03-25-16:59 sourced from:416792:613326 >>

Entity Name: THEME VERSION				<i>Short Name:</i>	TV
<i>Plural:</i>	THEME VERSIONS				
<i>Init. Volume:</i>	70000	<i>Avg. Volume:</i>	140000	<i>Max. Volume:</i>	200000
				<i>Annual Growth Rate:</i>	20%

Description:

The occurence of a theme (or level) for a given electronic version of a map. This represents a temporal event, as not all themes were present on all versions of their parent mapsheet.

Note1: The occurence of a theme is determined by the presence of the graphic (polygonal) level, which at a minimum, would be only the neatlines. At this minimum, the level would be considered to exist, but with a count of zero polygons. The polygon count (NUMBER OF POLYGONS) is based on the occurence of text nodes, a graphic element with polygon identifying text and attribution attached to it.

A 'defaulted' level, where the level occurs and has a single test node with a default attribute value would have a count of one polygon (NUMBER OF POLYGONS) and the DEFAULT PRESENCE IND set to 'Y'.

Note 2: it is understood that the source data collecting software will apply inter-theme (level)rules and the outcome may determine a theme is expected to exist, yet does not. Such occurrences are to be retained, as if they were a legitimate theme, with the Expected But Not Present IND set to Y(es).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* THEME VERSION SKEY		N	NUMBER	7,0
The surrogate identifier of a Theme Version.				

Entity Name: THEME VERSION (cont'd)

Short Name: TV

System generated from the Oracle sequence, THEME VERSION SEQ.

<< 1998-03-25-16:59 sourced from:416792:432481 >>

CREATION SPECIFICATION NAME SPECIFICATION NAME Y VARCHAR2 10

The name of the specification which applied the standards for the creation of the theme (level) version.

Of particular business interest is the planimetric base; there are TRIM (Terrain Resource Inventory Mapping) bases, now in versions 1.x and 2.x, as well as Ministry of Environment and the Resource Inventory Branch.

Prudence should be exercised to ensure that the specification name is true to definition and is not confused with the Agency that created the specification. Should the latter case arise, then a relationship to Agency Role would be required.

This can be applied to any level, though the standard that is applied would be unknown most of the time. For example, later application may make use of the manual name applicable at the time.

<< 1998-03-25-16:59 sourced from:416792:467449 >>

CUSTODIAN RELEASE DATE Y DATE

The date the business custodian released the theme, in its current version, for the use of other agencies.

Of particular interest is the date the Cadastre theme version was released, owing to its sensitivity on its impact on determining Crown

Entity Name:	THEME VERSION (cont'd)	<i>Short Name:</i>	TV
---------------------	------------------------	--------------------	----

land area summaries. The Custodian Release Date for the cadastre level is extracted from the title block of the *.FC1 file.

Note that a supplied date may not be interpretable by the load rules.

In this case, the CUSTODIAN RELEASE DATE will be null. The supplied date is stored in the CUSTODIAN RELEAS DATE TEXT FORM attribute.

<< 1998-03-25-16:59 sourced from:416792:421429 >>

CUSTODIAN RELEASE DATE TEXT	Y	VARCHAR2	20
The date the business custodian released the theme, in its current version, for the use of other agencies. This is a free form text field of the supplied data.			

This is identical attribution to the CUSTODIAN RELEASE DATE, with the exception that the CUSTODIAN RELEASE DATE is potentially interpreted to be loaded as a Date type.

<< 1998-03-25-16:59 sourced from:416792:670125 >>

NUMBER OF POLYGONS	NUMBER OF POLYGONS	Y	NUMBER	6
The number of polygons belonging to a theme (level). A derived attribute supplied from quality assurance processing software.				

The number of polygons is determined from the count of textnodes, that is the graphic element which textually identifies the polygonal shape.

If there is an occurence of a theme version (level) where there is no text node(s), a zero count of polygons will be recorded.

<< 1998-03-25-16:59 sourced from:416792:421317 >>

DEFAULT PRESENCE IND	INDICATOR DEFAULT N	Y	VARCHAR2	1
----------------------	---------------------	---	----------	---

Entity Name:THEME VERSION (cont'd)

Short Name:TV

The indication that the default value, as defined for a Theme, occurs in a given theme (level), for a given version of the graphics file.

<< 1998-03-25-16:59 sourced from:416792:467208 >>

MISSING TEXT DATA INDINDICATORY VARCHAR21

The indication that a theme (level) is expected to contain business interpretation and/or classification in the text file, when in fact, it does not.

This determination of missing business data is based on the source MUMS data collecting software which applies inter-theme (level) rules. An outcome of 'Y' (yes) indicates a theme is expected to contain business data, yet does not.

An example would be for the Recreation theme: if there is Crown Land ownership (as per the Cadastre theme), and the Recreation theme is attributed by its particular default value, the rule would interpret this condition as Missing Data (Y).

<< 1998-03-25-16:59 sourced from:416792:544826 >>

MISSING GRAPHICS DATA INDINDICATORY VARCHAR21

The indication that a theme (level) is expected to contain business interpretation and/or classification in the graphics file, when in fact, it does not. What the level would contain is an assigned default value, which does not distinguish the two possible causal business scenarios:

-the graphics theme data was inadvertently dropped or otherwise not included when available or

Entity Name:

THEME VERSION (cont'd)

Short Name:

TV

-the business has not undertaken classification and interpretation of the mapsheet area.

This determination of missing business data is based on the source MUMS data collecting software which applies inter-theme (level) rules. An outcome of 'Y' (yes) indicates a theme is expected to contain business data, yet does not.

An example would be for the Recreation theme: if there is Crown Land ownership (as per the Cadastre theme), and the Recreation theme is attributed by its particular default value, the rule would interpret this condition as Missing Data (Y).

<< 1998-03-25-16:59 sourced from:416792:438445 >>

CREATE DATE	N	DATE	
<< 1998-03-25-16:59 sourced from:416792:492815 >>			
MODIFY DATE	Y	DATE	
<< 1998-03-25-16:59 sourced from:416792:492816 >>			
CREATE USER ID	N	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492817 >>			
MODIFY USER ID	Y	VARCHAR2	30
<< 1998-03-25-16:59 sourced from:416792:492818 >>			

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE representing data for one and only one THEME
or MAY BE representing data for one and only one THEME GROUP
MAY BE a component of one and only one TEXT FILE VERSION
MAY BE commented by one or more QUALITY ASSURANCE ASSNS
MAY BE subject to one or more ROLE ASSOCIATIONS
MAY BE summarized by one or more THEME AREA SUMMARIES
MUST BE a component of one and only one GRAPHICS FILE VERSION
* = Relationships in primary unique identifier.

Entity Name:	THEME VERSION (cont'd)	<i>Short Name:</i>	TV
---------------------	------------------------	--------------------	----

Unique Identifiers:

TV2	Primary	N
MUST BE a component of one and only one GRAPHICS FILE VERSION		
MAY BE representing data for one and only one THEME		
MAY BE representing data for one and only one THEME GROUP		
TV1	Primary	Y
THEME VERSION SKEY		

Notes:

<< 1998-03-25-16:59 sourced from:416792:418254 >>

Entity Name:	THINNING TREATMENT	Short Name:	TT
Plural:	THINNING TREATMENTS		
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:
Subtype of:	TREATMENT		

Description:

The specification for the silivcultural treatment involving
the removal of selected trees from the forest stand.

Thinning is intended to confer increased growing space
for the remaining (crop) trees and/or favour the most
suited tree species for the site.

AttrIBUTES:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
CROP STEMS PER HA		N	NUMBER	6,2
The thinning specification by which a target number of trees per hectare is expected to remain as the growing crop. << 1998-03-26-16:31 sourced from:7003:232992 >>				
CROP TREE MIN DBH		Y	NUMBER	4,1
The thinning specification for the minimum crop tree diameter. All trees less than the minimum are cut down. << 1998-03-26-16:31 sourced from:7003:232993 >>				
D TO D RATIO		Y	NUMBER	3,2
The thinning specification of the ratio of: mean tree diameter before thinning/ mean tree diameter after thinning. << 1998-03-26-16:31 sourced from:7003:232994 >>				
BASAL AREA REDUCTION PCT		Y	NUMBER	3,0
The thinning specification of reducing the basal area				

Entity Name:	THINNING TREATMENT (cont'd)	<i>Short Name:</i>	TT
---------------------	-----------------------------	--------------------	----

(cross sectional area at Breast Height) by a percentage.

<< 1998-03-26-16:31 sourced from:7003:232995 >>

* = *Attributes in primary unique identifier.*

Notes:

<< 1998-03-26-16:31 sourced from:7003:232601 >>

Entity Name:	TOXIC PLANT	Short Name:	TP
Plural:	TOXIC PLANTS		
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:

Description:

Toxicity of Plants or trees as determined by Ministry of Forest / Research

All values ar accumulative .. That is they can be on or more values to species.

Therefore they reside in there own table keyed to the Taxonomic Names table

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TOXIC CD SKEY	SKEY 14	N	NUMBER	14,0
P ORGANISM type of organisms known to be affected by toxin in species	RESEARCH P ORGANISM	Y	VARCHAR2	1
P DESCRIPTOR describes effects on humans, or type of livestock, or wildlife affected by a poisonous species	RESEARCH P DESCRIPTOR	Y	VARCHAR2	2
P MODE mode of action of toxin in plant	RESEARCH P MODE	Y	VARCHAR2	1
P TOXIN chemicals causing toxicity	RESEARCH P TOXIN	Y	VARCHAR2	1
P TOXICITY degree of toxicity in a poisonous plant	RESEARCH P TOXICITY	Y	VARCHAR2	2
P SEASON most dangerous season of poisonous species	RESEARCH P SEASON	Y	VARCHAR2	3
P PARTS plant parts containing toxin	RESEARCH P PARTS	Y	VARCHAR2	2
P COMMENTS notes on active toxin, animals affected, toxicity of species		Y	VARCHAR2	256
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE describes one and only one TAXONOMIC NAME

* = Relationships in primary unique identifier.

Unique Identifiers:

TOXP1	Primary	Y
TOXIC CD SKEY		

Notes:

Input june 19th, 2001... RGH
into Taxonomic Names tablefrom research Access Database

Moved to Toxic Plants table Sept13,2001 ...RGH

Data Administration
Entity Definition Report

Entity Name: TRANSECT		<i>Short Name:</i> TRA	
<i>Plural:</i>	TRANSECTS		
<i>Init. Volume:</i>	50	<i>Avg. Volume:</i>	100
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	5%
<i>Subtype of:</i>	SPATIAL DELIMITER		

Description:

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
AZIMUTH BRG	AZIMUTH BRG	Y	NUMBER	3,0
TOTAL LINE LENGTH		Y	NUMBER	5,2

* = Attributes in primary unique identifier.

Data Administration
Entity Definition Report

Entity Name: TRANSECT COVERAGE				<i>Short Name:</i>	TCOV
<i>Plural:</i>	TRANSECT COVERAGES				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	1000
				<i>Annual Growth Rate:</i>	

Description:

The measurement of discontinous segments (occurences) of

plant species along a transect. Typically, a plant species will occur

at various locations for a given distance.

For Vegetation Inventory samples, this activity has been limited to

shrubs for forage assesement purposes, though this is not enforced,

and could be used for any transect based meausure.

AttrIBUTES:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
HORIZONTAL DISTANCE << 1998-03-26-16:32 sourced from:7003:400195 >>		N	NUMBER	4,2
* TRANSECT COVERAGE SKEY System generated UID from ORACLE sequence transect_coverage_seq; << 1998-03-26-16:32 sourced from:7003:566320 >>		N	NUMBER	7

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE a discrete portion of one and only one RANGE VEGETATION MEASUREMENT
* = Relationships in primary unique identifier.

Unique Identifiers:

TCOV1	Primary	Y
TRANSECT COVERAGE SKEY		

Notes:

<< 1998-03-26-16:32 sourced from:7003:400181 >>

Entity Name:	TREATMENT	Short Name:	TRE
Plural:	TREATMENTS		
Init. Volume:	100	Avg. Volume:	200
		Max. Volume:	500
		Annual Growth Rate:	1%

Description:

The event of a treatment to a plot or stand to a prescribed specification. The specification is quantified in each of the subtypes owing to the varied prescriptive characteristics of each.

The actual treatment result will likely differ and is expected to be discernable from a post-treatment plot/stand measurement visitation or from other practises such as traps for fertilizer prills.

A treatment is a silvicultural activity applied with the objective of a beneficial impact to tree growth and/or quality. The treatment may be applied directly to a tree (e.g. pruning) or indirectly to the growing environment such as a growing space and nutrient availibility (e.g. thinning, brushing and fertilization).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TREATMENT SKEY		N	NUMBER	7,0
<< 1998-03-26-15:04 sourced from:7003:232977 >>				
DESCRIPTION		Y	VARCHAR2	256
<< 1998-03-26-15:04 sourced from:7003:232978 >>				
START DATE		N	DATE	
The date a particular treatment commenced.				
<< 1998-03-26-15:04 sourced from:7003:232979 >>				
COMPLETION DATE		N	DATE	
The date the treatment was completed.				
<< 1998-03-26-15:04 sourced from:7003:232980 >>				

Entity Name:	TREATMENT (cont'd)	<i>Short Name:</i>	TRE
---------------------	--------------------	--------------------	-----

* = Attributes in primary unique identifier.

Unique Identifiers:

TRE1	Primary	Y
TREATMENT SKEY		

Notes:

<< 1998-03-26-15:04 sourced from:7003:232566 >>

Subtypes:

- BRUSHING TREATMENT
- FERTILIZING TREATMENT
- PRUNING TREATMENT
- THINNING TREATMENT

Data Administration
Entity Definition Report

Entity Name: TREE				Short Name: TREE	
Plural: TREES					
Init. Volume: 800000		Avg. Volume: 4000000		Max. Volume: 8000000	
				Annual Growth Rate: 5%	

Description:

A tall woody perennial plant usually with a single elongated stem and having a crown of branches and foliage. The tree in the context of forest mensuration is further defined by belonging to a sample or experimental unit (and accordingly is individually numbered) and whose species is identified in the MOF codelist table.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TREE SKEY	SKEY 14	N	NUMBER	14,0
The surrogate key identifier for the occurrence of a tree.				
A surrogate key was chosen for				
- the business need to change tree number as it may be performed in the field;				
- the business keeps tree number unique for a tree only at a CLUSTER_ELEMENT_LOCATION, where as the tree may 'move' (i.e. by growing) from one cluster element to another over time.				
<< 1998-03-26-10:29 sourced from:346868:524063 >>				
CREATE DATE		N	DATE	
<< 1998-03-26-10:29 sourced from:346868:524072 >>				
CREATE USER ID	ORACLE USER	N	VARCHAR2	30
<< 1998-03-26-10:29 sourced from:346868:524071 >>				
MODIFY DATE		Y	DATE	
<< 1998-03-26-10:29 sourced from:346868:524074 >>				
MODIFY USER ID	ORACLE USER	Y	VARCHAR2	30
<< 1998-03-26-10:29 sourced from:346868:524073 >>				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE observed for one and only one GROUP TAXONOMIC MEMBERSHIP

Entity Name:	TREE (cont'd)	Short Name:	TREE
---------------------	---------------	--------------------	------

MUST BE physically referenced by one and only one POINT LOCATION
* = Relationships in primary unique identifier.

Unique Identifiers:

TREE2	Primary	N
MUST BE physically referenced by one and only one POINT LOCATION		
MUST BE observed for one and only one GROUP TAXONOMIC MEMBERSHIP		
TREE1	Primary	Y
TREE SKEY		

Notes:

<< 1998-03-26-10:29 sourced from:346868:524052 >>

Subtypes:

- AGGREGATE TREE
- INDIVIDUAL TREE

Entity Name: TREE LAYER				<i>Short Name:</i> TL	
<i>Plural:</i> TREE LAYER INTRPRTNS					
<i>Init. Volume:</i> 15000		<i>Avg. Volume:</i> 25000		<i>Max. Volume:</i> 45000	
				<i>Annual Growth Rate:</i> 20%	
<i>Subtype of:</i> INTERPRETATION					

Description:

An observed vertical stratum in a plant community characterized by a common structure with a similar age and height. In vegetation inventory classification, layers are identified from medium scale photography, though other classification schemes, such as a Silviculture would be based on summarized and/or generalized ground collected data.

It is intended that FIP based layers would be converted to a Vegetation Inventory identification scheme. The LAYER CLASSIFICATION DESCRIPTION serves to indentify the parentage, name and valid business identifier of any layer.

Definition Source: GYD5 1.1 logical data model, entity:Layer Forest
Cover and p. 6.3 of PIP

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
COVER PATTERN NUM	COVER PATTERN	Y	NUMBER	1
The assigned number, based on a supplied visual template, of the spatial distribution of trees in a layer (vertical stratum).				

The distribution pattern represents combinations of average coverage, clumpiness, and shape of clumps.

Definition Source: p 6-2, PIP

Entity Name:	TREE LAYER (cont'd)	Short Name:	TL
---------------------	---------------------	--------------------	----

Data Value Source; Figure 6-1

A! for fun, if not a hassle, load the graphic image up too

A_S! col.. 44

<< 1998-03-26-11:46 sourced from:236464:262090 >>

CROWN CLOSURE PCT	PERCENTAGE 100 MIN 1	Y	NUMBER	3
The ground covered by the vertical projection of the tree crowns within the polygon.				

Definition Source: p. 6-4 PIP

A_S! col. 45-47, VRI Att. (entry) form

<< 1998-03-26-11:46 sourced from:236464:262091 >>

CROWN CLOSURE SOURCE CD	CROWN CLOSURE SOURCE	Y	VARCHAR2	3
The source of the crown closure assessment. Normally this would be interpreted (INT) as are the related crown appearance attributes of COVER PATTERN NUM, and VERTICAL COMPLEXITY CD.				

However, the values or lack thereof found in the FIP file indicate a large number of occurrences where no crown closure exists where tree species exist. The current (98-01) resolution is:

- utilize the table assigned by a VDYP lookup (TBL) or
- assign an arbitrary low value where age is less than 50 years (ASN).

The default is interpretation (INT).

Entity Name:

TREE LAYER (cont'd)

Short Name:

TL

<< 1998-03-26-11:46 sourced from:236464:731783 >>

VERTICAL COMPLEXITY CD

VERTICAL COMPLEXITY

Y

VARCHAR2

2

The distribution and representation of different stand ages and stand size classes within a polygon. This is an ocular determination that reflects the form of the stand rather than the actual composition by age groups.

Definition Source: p.6-7 PIP

Data Values Source: p. 6-8, table 6-2

A! make a domain

A_S! col. 49 VRI Att. (entry) form

<< 1998-03-26-11:46 sourced from:236464:262092 >>

BUSINESS LAYER SEQ NUM

Y

NUMBER

1

A numeric designation of the relative importance of the layer component in the stand as determined by the business.

The level of importance decreases the higher the numeric designation.

For Vegetation Cover originated data, this value is assigned via business rule based on the supplied order of the layer records as recorded by the interpreter.

For FIP originated data, this value is known as the RANK CD, and is explicitly supplied by the interpreter. The RANK CD, or ranking, is based on Regional guidelines at the time of interpretation. This

Entity Name:

TREE LAYER (cont'd)

Short Name:

TL

value is retained for FIP transition purposes, as tree volumes are only calculated by VDYP, the current software/mathematical model in production. The RANK CD will be superceded in time when Vegetation Inventory projection tools are developed.

<< 1998-03-26-11:46 sourced from:236464:508462 >>

ITG SOURCE CD

ITG SOURCE CD

Y

VARCHAR2

3

The data source of the value of the Inventory Type Group (a grouping of the leading species and their relative composition percent).

This has been renamed from the FIP attribute, INVENTORY TYPE GROUP ORIGIN. An additional value of 'TBL' has been added on conversion to the Vegetative Cover Database to explicitly represent the occurence of a blank.

<< 1998-03-26-11:46 sourced from:236464:508468 >>

ITG NUMBER AS SUPPLIED

FIP INV TYPE GROUP
NUMBER

Y

NUMBER

2

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE composed of one or more TREE LAYER SPP COMPS
MAY BE further described by one or more SILVICULTURAL HISTORIES
MUST BE defined by one and only one LAYER CLASSIFICATION DESCRIPTION
* = Relationships in primary unique identifier.

Notes:

A! NOTE:

The valid values are 1, 2, 3 which serve as identifiers only. This differs from the FIP definition in that there is no embedded/derived meaning such as layer V or S.

<< 1998-03-26-11:46 sourced from:236464:236550 >>

Entity Name:	TREE LAYER SPP COMPOSITION			<i>Short Name:</i>	TSC
<i>Plural:</i>	TREE LAYER SPP COMPS				
<i>Init. Volume:</i>	30000	<i>Avg. Volume:</i>	45000	<i>Max. Volume:</i>	60000
				<i>Annual Growth Rate:</i>	20%

Description:

temporary copy if same as LAYER SPECIES COMPOSITION;

should be renamed to LAYER TREE SPECIES (SPP if shorter name needed)

COMPOSITION if impact on GYD production can be minimized.

Definition Source: p. 6-6, PIP

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TREE LAYER SPP SKEY	SKEY 7	N	NUMBER	7,0
System generated UID from ORACLE sequence TL_SPP_SEQ.				
<< 1998-03-26-17:29 sourced from:236464:425730 >>				
TREE SPP SEQ NUM		N	NUMBER	2,0
The business supplied sequence of tree species.				
Normally, tree species are ordered by the COMPOSITION ESTIMATE PCT,				
however, this attribute represents the apparent requirement of the				
implied distinction of where the percent is the same. For example,				
where COMPOSITION ESTIMATE PCT is equal for two tree species, their				
supplied sequence implies an order of business preference.				
What the preference implies beyond 'importance' is not certain, and				
remains unrecorded.				
<< 1998-03-26-17:29 sourced from:236464:508443 >>				

Entity Name:	TREE LAYER SPP COMPOSITION (cont'd)	Short Name:	TSC
--------------	-------------------------------------	-------------	-----

COMPOSITION ESTIMATE PCTPERCENTAGE 100Y NUMBER3,0

An estimate of the relative percentage of tree species in the
interpreted tree layer.

The estimate is based on living trees according to the following
specification:

- basal area, if codominant and dominant trees > 2 m,
- density, if codominant and dominant trees < 2 m.

Definition Source: p. 6-9, Photo Interpretation Procedures, Phase 1,
May 14, 1996.

A_S! col. 53-55, 59-60, 64-65, 69-70, 74-75, 79-80 of VRI Att. (entry)
form

A! require a rule to ensure al Species Composition percents for a
given Tree Layer add to 100%

<< 1998-03-26-17:29 sourced from:236464:285607 >>

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

- MAY BE botanically identified by one and only one GROUP TAXONOMIC MEMBERSHIP
- MAY BE have one or more BUSINESS OBJECT ASSESSMENTS
- MUST BE a component of one and only one TREE LAYER
- * = Relationships in primary unique identifier.*

Unique Identifiers:

TSC1Primary Y

TREE LAYER SPP SKEY

Notes:

<< 1998-03-26-17:29 sourced from:236464:236556 >>

Entity Name: TREE MEASUREMENT				Short Name:	TRMEA
Plural:	TREE MEASMTS				
Init. Volume:	1500000	Avg. Volume:	7500000	Max. Volume:	15000000
Annual Growth Rate:	50%				
Subtype of:	CLUSTER ELMT MEASMT				

Description:

A set of measurements taken on Tree at a given time (visitation). The tree may have a single set of measurements (temporary samples) or multiple measurements at specified target intervals (permanent samples).

A further expansion of the definition includes the situation of multiple measurements for differing purposes at a single visitation.

Each Tree Measurement is collected for a Cluster Element (a Subpopulation-Spatial Delimiter pair, often refered to as a 'plot'). Most sampling and experimental designs measure the tree once for a visitation, as the tree belongs to a single Cluster Element.

However, in Vegetation Inventory samples, a tree may belong to more than one Cluster Element at a visitation depending on the purpose, and therefore have more than one measurement.

For example, In Vegetation Invnetary samples, a tree, belonging to a 'plot' (cluster element) is measured/assessed for diameter and log grades. The same tree may be re-selected in another Cluster Element for the purpose of collecting Top Height data.

However, the Top Height tree selection practise is not

Entity Name: TREE MEASUREMENT (cont'd)

Short Name:TRMEA

wholly definable by a Subpopulation (and by extension, a Cluster Element); e.g. the largest diameter trees of a second species, random trees, and substitutes. To distinguish each Tree Measurement, a selection purpose is retained, identified in Selection Intent.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TREE MEASMT SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-27-11:01 sourced from:346868:586591 >>				
BARK THICKNESS	NUM 6 4	Y	NUMBER	6,4
Bark thickness measurement coverted to meters.				
BORED QUALIFIER CD	BORED QUALIFIER CD	Y	VARCHAR2	3
A code describing the results of the age boring process.				
CMT	DESC 256	Y	VARCHAR2	256
Any free format text comments pertaining to the tree measurement.				
HH93_S TR_MEAS_TM_MEMO				
<< 1998-03-27-11:01 sourced from:346868:586574 >>				
COMPILATION LYR CD	COMPILATION LYR	Y	VARCHAR2	1
A representation of combinations of Tree Class (also a derived attribute) and LAYER FOREST COVER. This attribute is being retained o				
n a 'as				
-is' basis; the conversion logic for normalizing (unraveling) the				
embedded meanings is too difficult to attempt on load.				
In time, further analysis is warranted, unless this attribute becomes				
obsolete on account of disuse by new sample compiler (95-3).				
<< 1998-03-27-11:01 sourced from:346868:586586 >>				
CREATE DATE		N	DATE	

Data Administration
Entity Definition Report

Entity Name: TREE MEASUREMENT (cont'd) **Short Name:** TRMEA

<< 1998-03-27-11:01 sourced from:346868:586588 >>

CREATE USER ID ORACLE USER N VARCHAR2 30

<< 1998-03-27-11:01 sourced from:346868:586587 >>

CROWN CLASS CD CROWN CLASS Y VARCHAR2 2

A numerical ranking of the relative height position of the tree crown
with respect to the stand canopy.

HH93_S TR_MEAS_TM_CROWN

HH93_C If = 5, TREE LAYER ID = 'V'

SEF_S CT4-5:35 CROWN CLASS

SEF_C If = 5, TREE LAYER ID = 'V'

A! Tree Class 5, (Vet) is redundant; stored as a LAYER

<< 1998-03-27-11:01 sourced from:346868:586550 >>

DEAD POTENTIAL VOL CLASS CD DEAD POTENTIAL VOL Y VARCHAR2 1

A code to denote an estimation of the amount of remaining sound wood.

This attribute is used in conjunction with DEAD TREE IND to TreeClass;

a historical code with a number of meanings.

DEAD POTENTIAL VOL CLASS CD = 3 where Tree Class = 3

DEAD POTENTIAL VOL CLASS CD = 4 where Tree Class = 4

A! If Tree Class = 3, then = 3; if Tree Class = 4, then = 4

<< 1998-03-27-11:01 sourced from:346868:586556 >>

FALLING HAZARD IND INDICATOR Y VARCHAR2 1

An assessment of the risk associated with falling the tree. Applicabl

e to plots established for the Volume and Decay program.

A! Later yse in Volume and Decay temporary sample

<< 1998-03-27-11:01 sourced from:346868:586559 >>

FIRST LIVE LIMB LOG NUM LIVE LIMB LOG Y NUMBER 1,0

The number of the tree log in which the first live limb belonging to

Data Administration
Entity Definition Report

Entity Name:	TREE MEASUREMENT (cont'd)	Short Name:	TRMEA
---------------------	---------------------------	--------------------	-------

the tree crown originates. The tree log number is created by dividing the tree ocularly into 5 metre log lengths numbered sequentially from one, beginning at the base.

HH93_S TR_MEAS_TM_LIMB

SEF_S CT4:50 FIRST LIVE LIMB

<< 1998-03-27-11:01 sourced from:346868:586561 >>

FIRST STUB LOG NUM	LIVE LIMB LOG	Y	NUMBER	1,0
--------------------	---------------	---	--------	-----

The tree log number of the first branch stub or dead branch. The tree log number is created by dividing the tree ocularly into 5 metre log lengths numbered sequentially from one, beginning at the base.

HH93_S TR_MEAS_TM_STUB

SEF_S CT4:51 FIRST STUB

<< 1998-03-27-11:01 sourced from:346868:586562 >>

FREQUENCY COUNT	NUM 3	Y	NUMBER	3,0
-----------------	-------	---	--------	-----

The count of the number of trees (frequency) aggregated into a single occurrence of a tree record at this measurement.

<< 1998-03-27-11:01 sourced from:346868:586612 >>

HT DIAM CD	HT DIAM	Y	VARCHAR2	1
------------	---------	---	----------	---

A code used only by the G & Y section of the Inventory Branch to qualify a tree diameter and/or height together for inclusion in later processes of heigh-diameter curves.

This code is only being retained for the purpose of serving the interim business needs of providing the Standard Edit File as an output to these same processes. In later database development

Entity Name:	TREE MEASUREMENT (cont'd)	Short Name:	TRMEA
---------------------	---------------------------	--------------------	-------

projects, such processes would be built to directly interface with the database.

These codes have unclear meaning and furthermore, the suitability of height and diameter are bundled into one attribute. This code is being replaced by REPRES_IND (Representative Indicator) and VALIDITY_IND (Validity Indicator) in both AGE ASSMT (Age Assessment) and HT ASSMT (Height Assessment).

Valid values are:

- blank suitable for ht/diam curve processing
- X not for use in ht/diam curve processing
- S suppress for ht/diam curve processing
- W check ht/diam at next measurement

SEF value converts to:

REPRES_IND VALIDITY_IND (in both AGE ASSMT & HT ASSMT)

=====

<i>blank</i>	<i>Y</i>	<i>Y</i>
<i>X</i>	<i>N</i>	<i>Y</i>
<i>S</i>	<i>N</i>	<i>Y</i>
<i>W</i>	<i>Y</i>	<i>N</i>

<< 1998-03-27-11:01 sourced from:346868:586582 >>

KNOTS AT 1ST 5 M	KNOT 5M	Y	NUMBER	1,0
------------------	---------	---	--------	-----

The first 5 m. log is divided in four longitudinal quarters. The attribute denotes the number of quarters with knots or the presence of an

Data Administration
Entity Definition Report

Entity Name:	TREE MEASUREMENT (cont'd)	Short Name:	TRMEA
---------------------	---------------------------	--------------------	-------

open knot flush with the bark surface in the first log.

HH93_S TR_MEAS-TM_1KNOT5M

SEF_S CT4:52 KNOTS 1ST 5M

<< 1998-03-27-11:01 sourced from:346868:586563 >>

KNOTS AT 2ND 5 M	KNOT 5M	Y	NUMBER	1,0
------------------	---------	---	--------	-----

The number of quarters of the second 5 m. with knots, or the presence

of an open knot flush with the bark surface.

HH93_S TR_MEAS_TM_2KNOT5M

SEF_S CT4:52 KNOTS 2ND 5M

<< 1998-03-27-11:01 sourced from:346868:586564 >>

LEAN CD	TREE LEAN/SWEEP CLASS	Y	VARCHAR2	1
---------	-----------------------	---	----------	---

A numerical code to denote the presence and category of degree of tree

stem deviation from the vertical.

HH93_S TR_MEAS_TM_LEAN

SEF_S CT4:49 LEAN

<< 1998-03-27-11:01 sourced from:346868:586553 >>

LIVE CROWN PCT	PERCENTAGE 100	Y	NUMBER	3,0
----------------	----------------	---	--------	-----

An ocular estimate, to the nearest 5%, of the total tree height covere

d by live crown.

HH93_S TR_MEAS_TM_LC_LEN

SEF_S CT4:59-61 LIVE CROWN %

<< 1998-03-27-11:01 sourced from:346868:586554 >>

MISSED OR DROPPED TREE CD	MISS DROP TREE	Y	VARCHAR2	1
---------------------------	----------------	---	----------	---

A code to denote if a tree has not been numbered and recorded in the p

revious measurement owing to an oversight of the field crew. Or conve

rsely, the code denotes a tree which should not have been numbered and

recorded for the same reason.

Data Administration
Entity Definition Report

Entity Name: TREE MEASUREMENT (cont'd) **Short Name:** TRMEA

HH93_S TR_MEAS_TM_MISSED

SEF_S CT4:76 MISSED/DROP TREE

A! Later intent to recreate an instance of a "Missed" tree.

"Dropped" trees may want to be marked for non-use;

values: D, M, null

<< 1998-03-27-11:01 sourced from:346868:586557 >>

MODIFY DATE Y DATE

<< 1998-03-27-11:01 sourced from:346868:586590 >>

MODIFY USER ID ORACLE USER Y VARCHAR2 30

<< 1998-03-27-11:01 sourced from:346868:586589 >>

NEW STUMP IND INDICATOR Y VARCHAR2 1

An indicator to denote the stump is new; i.e. appears to be less than 10 years old. Usually collected at establishment and is intended to apply to plots in selectively harvested stands.

<< 1998-03-27-11:01 sourced from:346868:586575 >>

OUT OF PLOT IND INDICATOR DEFAULT N N VARCHAR2 1

An indicator to denote if the tree is outside of the plot. Used when a suitable height or age measurement tree cannot be found inside the plot or if the measurement would damage the tree.

HH93_S TREE_TR_IN_PLOT

HH93_C Default="N"; "Y"converts to null; "N" converts to "Y"

<< 1998-03-27-11:01 sourced from:346868:586551 >>

REMAINING BARK PCT PERCENTAGE 100 Y NUMBER 3,0

The percentage of tree circumference at DBH covered by bark.

The value recorded is used in determining actual wood volume.

Data Administration
Entity Definition Report

Entity Name:	TREE MEASUREMENT (cont'd)	Short Name:	TRMEA
---------------------	---------------------------	--------------------	-------

<< 1998-03-27-11:01 sourced from:346868:586594 >>

SITE TREE IDENTIFIER CD	SITE TREE IDENTIFIER	Y	VARCHAR2	3
An identifier as to additional site growing measurements were obtained for the tree measurements. (Site growing measurements are those that characterize the the growing capability of the site as expressed typically in age and height.)				

Examples would be for Top Height (first and second choices), a Random tree and an Other tree. All are prescribed purposes by Vegetation Inventory.

07 jun 97 JRT

- copied from TRE MEASMT entitiy in VEG_SAMPLE(5).

<< 1998-03-27-11:01 sourced from:346868:586593 >>

SOUND WOOD PERCENT	PERCENTAGE 100	Y	NUMBER	3,0
For Stump measurements, the observed % sound wood.				

<< 1998-03-27-11:01 sourced from:346868:586613 >>

SPIRAL GRAIN IND	INDICATOR	Y	VARCHAR2	1
An indicator to denote the presence of spiral grain, (longitudinal twist) in the tree trunk.				

HH93_S TR_MEAS_TM_SPIRAL

SEF_S CT4:47 SPIRAL GRAIN

<< 1998-03-27-11:01 sourced from:346868:586560 >>

STUMP IND	INDICATOR DEFAULT N	N	VARCHAR2	1
Indication that the tree is in the form of a stump.				

Data Administration
Entity Definition Report

Entity Name:	TREE MEASUREMENT (cont'd)	Short Name:	TRMEA
---------------------	---------------------------	--------------------	-------

Trees and stumps are treated as the same entity; this is the single attribute that differentiates between a tree and a stump.

<< 1998-03-27-11:01 sourced from:346868:586573 >>

SWEEP CD	TREE LEAN/SWEEP CLASS	Y	VARCHAR2	1
A numerical code to denote the presence and category of degree of bowing of one half of the merchantable stem of the tree.				

HH93_S TR_MEAS_TM_SWEEP

SEF_S CT4:48 SWEEP

<< 1998-03-27-11:01 sourced from:346868:586552 >>

TAG MISSING IND	INDICATOR DEFAULT	N	Y	VARCHAR2	1
An indicator to denote if the identifying tree number tag was missing.					

<< 1998-03-27-11:01 sourced from:346868:586558 >>

TREE CLASS	TREE CLASS	Y	VARCHAR2	1
A derived code that denotes a number of conditions about the tree.				

This attribute is entirely embedded meaning and would have not been included if not to facilitate ready export to the Standard Edit file.

Normalizing this field results in the following attributes:

TREE COND CD (Live/Dead)

LAYER FOR COV = 'V'

POTENTIAL VOLUME CLASS CD = 3,4

DAMAGE AGENT CD

<< 1998-03-27-11:01 sourced from:346868:586583 >>

TREE EXTANT CD	EXTANT	N	VARCHAR2	4
The basic tree condition or extancy; either dead or alive.				

A! Default = "LIVE", if TREE CLASS =3 OR 4, then = "DEAD"

Data Administration
Entity Definition Report

Entity Name:	TREE MEASUREMENT (cont'd)	Short Name:	TRMEA
---------------------	---------------------------	--------------------	-------

<< 1998-03-27-11:01 sourced from:346868:586555 >>

TREE SELECTION CD	TREE SELECTION CD	Y	VARCHAR2	2
The reason that the tree was selected for further measurement				

(Top Height, Random, ...).

TREE STANDING IND	TREE STANDING CD	Y	VARCHAR2	1
A code indicating if the tree was standing whrn measured.				

'Y' indicates the tree was standing, 'N'; means not standing.

<< 1998-03-27-11:01 sourced from:346868:586609 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE assessing one and only one SMC PATHOLOGY
- or MAY BE assessing one and only one PRODUCTIVITY PATHOLOGY
- MAY BE a member of a one and only one LAYER CLASSIFICATION DESCRIPTION
- MAY BE assessing one and only one INVENTORY PATHOLOGY
- MAY BE further assessed by one or more AGE ASSMTS
- MAY BE further assessed for one or more TREE WILDLIFE FTR OCCURRENCES
- MAY BE further divided into one or more STEMS
- MAY BE further examined for one or more TREE WILDLIFE USE OCCURRENCES
- MAY BE have one or more LOG ASSESSMENTS
- MAY BE recording one or more AGE ASSESSMENTS
- MAY BE recording one or more DAMAGE OCCURRENCES
- MAY BE recording one or more DIAM ASSMTS
- MAY BE recording one or more HT ASSMTS
- MAY BE recording one or more TREE VOLUME LOSS INDICATORS

* = Relationships in primary unique identifier.

Unique Identifiers:

TRMEA1	Primary	Y
TREE MEASMT SKEY		

Notes:

Dead trees are to be treated as TREE with TREE CONDITION = 'DEAD'

Using midpoint of DBH class as the estimated diameter; set

Data Administration
Entity Definition Report

Entity Name:	TREE MEASUREMENT (cont'd)	<i>Short Name:</i>	TRMEA
DIAMETER QUALIFIER CD = 'MID 5' for SET CT8.			

Entity Name:	TREE SPECIES SUCCESSION			<i>Short Name:</i>	TSS
<i>Plural:</i>	TREE SPECIES SUCCESSIONS				
<i>Init. Volume:</i>	78	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i>	1000
				<i>Annual Growth Rate:</i>	1%

Description:

The observation of the predominance of tree species that occurred on the sample previously and currently. Quantified by an estimation of Basal Area.

NB; it seem superflous to estimate this for the current stand when the derivation of the tree sample data will provide this data.

Should only the previous tree species composition be recorded, then this entity should be collapsed and be attributed in the Sucession Interpretation entity only.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TREE SPP SUCCN CURRENCY CD	SUCCESSION CURRENCY	N	VARCHAR2	2
A code for the generalized timeframe the observation of tree species predominance applies; Previous and Current.				
<< 1998-03-26-16:33 sourced from:7003:221055 >>				
* SEQUENCE NUM		N	NUMBER	1
The number representing the supplied sequence of the species on the field sheet in the estimation of basal area.				
<< 1998-03-26-16:33 sourced from:7003:221056 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE a component of one and only one SUCCESSION INTERPRETATION
- * = Relationships in primary unique identifier.

Unique Identifiers:

TSS1	Primary	Y
------	---------	---

Entity Name:	TREE SPECIES SUCCESSION (cont'd)	<i>Short Name:</i>	TSS
---------------------	----------------------------------	--------------------	-----

MUST BE a component of one and only one SUCCESSION INTERPRETATION
TREE SPP SUCCN CURRENCY CD
SEQUENCE NUM

Notes:

<< 1998-03-26-16:33 sourced from:7003:219026 >>

Entity Name: TREE SUBPOPULATION				Short Name:	TSUBP
Plural:	TREE SUBPOPULATIONS				
Init. Volume:	500	Avg. Volume:	1000	Max. Volume:	2000
				Annual Growth Rate:	5%
Subtype of:	SUBPOPULATION				

Description:

A set of tree, biomass or flora characteristics and their associated minimum and maximum values used to define a subpopulation of a sample or experimental unit.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DYNAMIC CD	POPLTN DYNAMIC	Y	VARCHAR2	2

The sample or experiment design characteristic reflecting how changes to the subpopulation of individual trees usually, over time, are to be handled. Applicable to remeasured or permanent samples and experimental plots only,

The most common example is 'ingrowth', where trees become larger than the minimum diameter on later re-measurements following establishment.

If such 'ingrowth' is typically permitted, that is, the 'new' tree is identified and measured as any other, the DYNAMIC CD is 'DY', i.e. the subpopulation of trees is considered to be dynamic over the life of the permanent sample or experimental plot.

A second example is where 'ingrowth' is not permitted, i.e. the trees identified at establishment represent the only ones which are remeasured. In this circumstance, the DYNAMIC CD is 'ST' for static, to reflect an unchanging tree subpopulation.

A third example, which has not been fully explored, but may be reflected by simply adding another code value are 'espacement' trials. Only

Entity Name: TREE SUBPOPULATION (cont'd)

Short Name:

TSUBP

known to experiments where a stand has been spaced, the subpopulation can change at each re-measurement to obtain the prescribed number of live trees determined at establishment. If mortality occurs, the number of live trees is made up to the prescribed number. How the plot size is varied to accomodate this is unknown, perhaps there isn't a bounded plot per se. Analysis to continue when Research Branch data is analysed for inclusion into the database.

<< 1998-03-27-10:15 sourced from:346868:347394 >>

MAX DBH

TREE DIAMETER 4 1

Y

NUMBER

4,1

The maximum diameter, at the standard breast height (BH STANDARD), which defines a bound of the subpopulation of individual trees or tree classes.

<< 1998-03-27-10:15 sourced from:346868:347396 >>

MAX TREE HT

TREE HEIGHT 4 2

Y

NUMBER

4,2

The maximum tree height, which defines a bound of the subpopulation of individual trees or tree classes. It is typically used for small trees.

<< 1998-03-27-10:15 sourced from:346868:347398 >>

MIN DBH

TREE DIAMETER 4 1

Y

NUMBER

4,1

The minimum diameter, at the standard breast height (BH STANDARD), which defines a bound of the subpopulation of individual trees or tree classes.

<< 1998-03-27-10:15 sourced from:346868:347395 >>

MIN TREE HT

TREE HEIGHT 4 2

Y

NUMBER

4,2

The minimum tree height, which defines a bound of the subpopulation of individual trees or tree classes. It is typically used for small trees.

Entity Name:	TREE SUBPOPULATION (cont'd)	Short Name:	TSUBP
---------------------	-----------------------------	--------------------	-------

<< 1998-03-27-10:15 sourced from:346868:347397 >>

POPLTN ELMNT CD	POPLTN ELMNT	N	VARCHAR2	5
The item that is being observed or measured; in biometric terms, the p opulation element of the investigation. The investigation can be cons idered to be either by sampling or experimenting.				

<< 1998-03-27-10:15 sourced from:346868:347399 >>

TREE EXTANT CD	EXTANT GROUP	N	VARCHAR2	4
A description of the state of existance of the population element (the item which is being observed or measured). In the case of defining a subpopulation of living items such as trees, the three possibilities are Live, Dead and both Live and Dead.				

<< 1998-03-27-10:15 sourced from:346868:347320 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE prescribes the bounds for one or more INTERPRETATION SUBJECTS
* = Relationships in primary unique identifier.

Unique Identifiers:

TSUBP2	Primary	N
TREE EXTANT CD		
POPLTN ELMNT CD		
MIN DBH		
MAX DBH		
MIN TREE HT		
MAX TREE HT		
DYNAMIC CD		

Notes:

<< 1998-03-27-10:15 sourced from:346868:347316 >>

Data Administration
Entity Definition Report

Entity Name:	TREE VOLUME COEFFICIENT SET			<i>Short Name:</i>	TVCS
<i>Plural:</i>	TREE VOLUME COEFFICIENT SETS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i>	500
				<i>Annual Growth Rate:</i>	2%

Description:

The set of coefficients that are used to calculate tree volume.

A! (97-12) No further analysis has been done, though it is expected

that there will be a generalized approach to naming the coefficient

and retaining its respective value.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MUST BE is for one and only one TAXONOMIC NAME

MUST BE supplying parameters for one and only one DERIVATION MODULE

* = Relationships in primary unique identifier.

Notes:

<< 1998-03-26-17:29 sourced from:236464:679680 >>

Entity Name: TREE VOLUME LOSS CD		<i>Short Name:</i>	TVLC
<i>Plural:</i>	TREE VOLUME LOSS CDS		
<i>Init. Volume:</i>	32	<i>Avg. Volume:</i>	200
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	

Description:

The visible external indicators that are associated with volume loss on the tree. This variation of assessing wood volume loss is particular to the Vegetation Inventory program.

In many cases these are the same as the so-called Damage Agents, though in fact this includes damage symptoms (e.g. frost cracks).

For example, the occurence of a 'conk', an external bracket shaped fruiting body indicative of internal wood decay, is a specified Tree Loss Indicator. It is also a subset of specific Damage Agents species.

That both the Tree Loss Indicator and the Damage Agents use the same code is a source of potential confusion. In the above example, the Tree Loss Indicator for conks (a subset of Damage Agent species) is 'D' and yet it also codfies the Damage Agent category of diseases. (96-05-02).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* TREE LOSS CD		N	VARCHAR2	3
The code for the tree loss indicator as defined for the Vegetation Inventory program.				

Data Administration
Entity Definition Report

Entity Name: TREE VOLUME LOSS CD (cont'd)		Short Name:	TVLC
DESCRIPTION	N VARCHAR2	50	
A decription of the Tree Volume loss indicator.			

Conversion logic with Damage Agents would be useful.

<< 1998-03-26-16:34 sourced from:7003:231859 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE the cause of one or more TREE VOLUME LOSS INDICATORS

MAY BE the same or a group of one or more DAMAGE AGENT VEG SAM VERSIONS

* = Relationships in primary unique identifier.

Unique Identifiers:

TVLC1	Primary	Y
TREE LOSS CD		

Notes:

<< 1998-03-26-16:34 sourced from:7003:230030 >>

Data Administration
Entity Definition Report

Entity Name: TREE VOLUME LOSS INDICATOR			Short Name:	TVLI
Plural:	TREE VOLUME LOSS INDICATORS			
Init. Volume:	3891	Avg. Volume:	5000	Max. Volume: 7500
			Annual Growth Rate:	1%

Description:

The estimation of loss of tree volume in the field

as identified by the presence of a specified indicator (Tree

Volume Loss CD) that is associated with wood decay.

Particular to Vegetation Inventory.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* VOL LOSS SKEY		N	NUMBER	7,0
System generated UID from ORACLE sequence vol_loss_SEQ.				

<< 1998-03-26-16:34 sourced from:7003:537240 >>

SEQUENCE NUM	N	NUMBER	2
The sequence of the number occurrence of the tree loss indicator in the supplied order on the field sheet.			

<< 1998-03-26-16:34 sourced from:7003:231860 >>

FROM POSITION	TREE VOLUME LOSS	Y	NUMBER	,2
The lowest position above or below the DBH Reference Ht where an tree volume loss indicator occurs.				

<< 1998-03-26-16:34 sourced from:7003:231861 >>

TO POSITION	TREE VOLUME LOSS	Y	NUMBER	,2
The highest position above or below the DBH Reference Ht where an tree volume loss indicator occurs.				

<< 1998-03-26-16:34 sourced from:7003:231862 >>

FREQUENCY	N	NUMBER	1
The number of occurrences of a tree volume loss indicator			

Entity Name: TREE VOLUME LOSS INDICATOR (cont'd)

Short Name: TVLI

within a given hieght position range.

The field crew has the discretion to record multiple separate
occurences with a single frequency or a single occurrence with
a frequency greater than one.

<< 1998-03-26-16:34 sourced from:7003:231863 >>

TO POSITION QUALIFIER CD	LOSS POSITION	Y	VARCHAR2	2
<< 1998-03-26-16:34 sourced from:7003:335338 >>				

FROM POSITION QUALIFIER CD	LOSS POSITION	Y	VARCHAR2	2
<< 1998-03-26-16:34 sourced from:7003:368943 >>				

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE maybe an assessment for one and only one SECTION
or MAY BE record loss factors against one and only one TREE MEASUREMENT
MUST BE due to one and only one TREE VOLUME LOSS CD
* = Relationships in primary unique identifier.

Unique Identifiers:

TVLI1	Primary	Y
VOL LOSS SKEY		

Notes:

<< 1998-03-26-16:34 sourced from:7003:229470 >>

Entity Name:	TREE VOLUME UTILIZATION LEVEL			<i>Short Name:</i>	TVL
<i>Plural:</i>	TREE VOL UTLZN LEVELS				
<i>Init. Volume:</i>	10	<i>Avg. Volume:</i>	10	<i>Max. Volume:</i>	10
				<i>Annual Growth Rate:</i>	1%

Description:

The set of parameters that define constraints for the calculation of tree species volume. The utilization standards emulate economic commerical extraction conditions, eg. a minimum stump, top diameter and a breast height diameter.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* UTILIZATION SKEY	SKEY 7	N	NUMBER	7,0
The system generated unique identifier.				
<< 1998-03-26-17:32 sourced from:236464:506735 >>				
TREE VOLUME UTLZN NUM		N	NUMBER	2,0
The business identifier of the utilization level.				
Commonly, the minimum DBH is used for this purpose.				
<< 1998-03-26-17:32 sourced from:236464:429448 >>				
STUMP HT	TREE HEIGHT 4 2	Y	NUMBER	4,2
The height of the stump, which represents the prescribed condition for timber extraction purposes. The portion of the tree below this height is excluded from the determination of volume at the specified level of utilization.				
<< 1998-03-26-17:32 sourced from:236464:429450 >>				
TOP DIAMETER IB	TREE DIAMETER 4 1	Y	NUMBER	4,1
The diameter at the top of the tree, inside bark, which represents the minimum size for timber extraction purposes. The remainder of the tree, the top, is excluded from the determination of volume at the specified level of utilization.				

Entity Name:	TREE VOLUME UTILIZATION LEVEL (cont'd)	Short Name:	TVL
---------------------	--	-------------	-----

<< 1998-03-26-17:32 sourced from:236464:429451 >>

STUMP DIAMETER IB	TREE DIAMETER 4 1	Y	NUMBER	4,1
The diameter, inside bark, at the specified height, which represents				
the minimum size for timber extraction purposes. Trees of lesser BH				
diameter are excluded from the determination of volume at the				
specified level of utilization.				

<< 1998-03-26-17:32 sourced from:236464:429452 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE applied to one or more UTILIZATION LEVEL AREA ASSNS
* = Relationships in primary unique identifier.

Unique Identifiers:

TVL1	Primary	Y
UTILIZATION SKEY		

Notes:

<< 1998-03-26-17:32 sourced from:236464:426898 >>

Entity Name: TREE WILDLIFE FEATURE CD		<i>Short Name:</i>	TWFC
<i>Plural:</i>	TREE WILDLIFE FEATURE CDS		
<i>Init. Volume:</i>	37	<i>Avg. Volume:</i>	200
		<i>Max. Volume:</i>	500
		<i>Annual Growth Rate:</i>	1%

Description:

Tree features that potentially provide habitat to wildlife. For

example, nest cavities and platforms, nurseries, dens, roosts,

perches, foraging sites and display stations. Birds, mamansls

amphibians and various invertebrates make use of certain tree

features.

Implemented as a code table rather than as a domain on account of

external definition by the Research Branch.

Definition Source; p. 9-1 of VI Sampling Procedures

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FEATURE CATEGORY CD		N	VARCHAR2	10
A codified name of the tree feature that is specific to potential				
wildlife use. Examples are Visual Appearance, Crown Condition, Bark				
Retention, Wood Condition and Lichen Loading.				
<i>A! determine a short name for each, possibly using the field sheet</i>				
<< 1998-03-26-16:36 sourced from:7003:307462 >>				
* FEATURE STATE NUM		N	NUMBER	1
The numeric classification assigned to a state of the Tree Wildlife				
Feature. The classification is based on degrees of deterioration				
appropriate for each feature.				
For example, the value of the codes vary from 1 to 9 for Visual				
Appearance, from 1 to 7 for Crown Condition etc. (As per p. 9-2 of				

Entity Name:

TREE WILDLIFE FEATURE CD (cont'd)

Short Name:

TWFC

the VI Sampling Procedures manual.)

<< 1998-03-26-16:36 sourced from:7003:307463 >>

FEATURE DESC

Y

VARCHAR2

75

The full text description of the Tree Wildlife Feature as defined in

the VR Sampling Proceedures manual.

<< 1998-03-26-16:36 sourced from:7003:307464 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE prescribing the valid values for one or more TREE WILDLIFE FTR OCCURRENCES

* = Relationships in primary unique identifier.

Unique Identifiers:

TWFC1

Primary

Y

FEATURE CATEGORY CD

FEATURE STATE NUM

Notes:

A_S! codes on p. 9-2 to 9-4 of VI Sampling Procedures

A! denormalized; each Tree Wildlife Feature has a different range

associated with it

<< 1998-03-26-16:36 sourced from:7003:307453 >>

Entity Name:	TREE WILDLIFE FTR OCCURRENCES				<i>Short Name:</i>	TWFO
<i>Plural:</i>	TREE WILDLIFE FTR OCCURRENCES					
<i>Init. Volume:</i>	19949	<i>Avg. Volume:</i>	25000	<i>Max. Volume:</i>	35000	<i>Annual Growth Rate:</i> 1%

Description:

The association of an observation of Tree Wildlife Feature with a

valid Tree Wildlife Feature.

Resolves a many observations to many Tree Wildlife Features.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE observed for one and only one TREE WILDLIFE FEATURE CD
- * MUST BE recording features for wildlife use one and only one TREE MEASUREMENT
- * = Relationships in primary unique identifier.

Unique Identifiers:

TWFO1	<i>Primary</i>	Y
<i>MUST BE observed for one and only one TREE WILDLIFE FEATURE CD</i>		
<i>MUST BE recording features for wildlife use one and only one TREE MEASUREMENT</i>		

Notes:

<< 1998-03-26-16:36 sourced from:7003:308216 >>

Data Administration
Entity Definition Report

Entity Name: TREE WILDLIFE USE CD			<i>Short Name:</i>	TWUC
<i>Plural:</i>	TREE WILDLIFE USE CDS			
<i>Init. Volume:</i>	30	<i>Avg. Volume:</i>	100	<i>Max. Volume:</i> 500
			<i>Annual Growth Rate:</i>	1%

Description:

The codes to denote wildlife use of trees. Examples are feeding (by birds), nesting, marking (by mammals), denning and perching.

Retained as a separate code table to reflect the external (to Resource Inventory Branch) custodian responsibilities.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* WILDLIFE USE CD		N	VARCHAR2	4
The code for the wildlife use.				

Definition Source: p. 9-4, Vegetation Inventory Sampling Procedures.

<< 1998-03-26-16:36 sourced from:7003:308746 >>

WILDLIFE USE DESC	Y	VARCHAR2	256
The description of the use. Copy from p. 9-3-5, Vegetation Inventory Sampling Procedures.			

<< 1998-03-26-16:36 sourced from:7003:308747 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE shown on one or more TREE WILDLIFE USE OCCURRENCES
* = Relationships in primary unique identifier.

Unique Identifiers:

TWUC1	Primary	Y
WILDLIFE USE CD		

Notes:

<< 1998-03-26-16:36 sourced from:7003:308740 >>

Entity Name:	TREE WILDLIFE USE OCCURRENCE			<i>Short Name:</i>	TWUO
<i>Plural:</i>	TREE WILDLIFE USE OCCURRENCES				
<i>Init. Volume:</i>	401	<i>Avg. Volume:</i>	1000	<i>Max. Volume:</i>	1500
				<i>Annual Growth Rate:</i>	1%

Description:

Tree Wildlife USe occurrence observations recorded from Vegetation

COver Samples Card 8 (TD) Tree Details - Wildlife User Codes col

47-48.

See manual Ground Sampling PRocedures March 31, 1997 Page 4-17.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- * MUST BE observed for one and only one TREE WILDLIFE USE CD
- * MUST BE recording wildlife use one and only one TREE MEASUREMENT
- * = Relationships in primary unique identifier.

Unique Identifiers:

TWUO1	Primary	Y
MUST BE observed for one and only one TREE WILDLIFE USE CD		
MUST BE recording wildlife use one and only one TREE MEASUREMENT		

Notes:

<< 1998-03-26-16:36 sourced from:7003:537248 >>

Entity Name: TSA CD				<i>Short Name:</i>	TSA
<i>Plural:</i>	TSA NUMBER CODES				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i>	300
				<i>Annual Growth Rate:</i>	1%

Description:

A code table to identify an administrative forest management area in

British Columbia.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DESCRIPTION	DESC 50	N	VARCHAR2	50
The name of the Timber Supply Area.				

<< 1998-03-25-16:05 sourced from:346868:346964 >>

* TSA NUM	N	VARCHAR2	3
The number assigned to an administrative forest management area in BC.			

<< 1998-03-25-16:05 sourced from:346868:346963 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE composed of one or more TSB NUMBER CODES
MAY BE containing one or more THEME AREA SUMMARIES
MAY BE geographically containing one or more PLOT CLUSTERS
MAY BE spatially containing one or more GIS RESULTANTS

* = Relationships in primary unique identifier.

Unique Identifiers:

TSA1	Primary	Y
TSA NUM		

Notes:

OT_S VAX tables

A? Check BD

<< 1998-03-25-16:05 sourced from:346868:346962 >>

Entity Name: TSB CD				<i>Short Name:</i>	TSB
<i>Plural:</i>	TSB NUMBER CODES				
<i>Init. Volume:</i>	250	<i>Avg. Volume:</i>	500	<i>Max. Volume:</i>	500
				<i>Annual Growth Rate:</i>	0%

Description:

A subdivision of the Timber Supply Area (TSA).

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* BLOCK		N	CHAR	1
A subdivision of Timber Supply Area usually for more localized				
localized planning purposes.				
<< 1998-03-25-16:06 sourced from:346868:346966 >>				
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

- MAY BE physical area for one or more PLOT CLUSTERS
- MAY BE spatially containing one or more GIS RESULTANTS
- * MUST BE a sub-division of one and only one TSA CD
- * = Relationships in primary unique identifier.

Unique Identifiers:

TSB1	Primary	Y
MUST BE a sub-division of one and only one TSA CD		
BLOCK		

Notes:

<< 1998-03-25-16:06 sourced from:346868:346965 >>

Data Administration
Entity Definition Report

Entity Name: USER		Short Name: USER	
Plural:	USERS		
Init. Volume:	10	Avg. Volume:	100
		Max. Volume:	100
		Annual Growth Rate:	

Description:

A person with a database userid.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* DATABASE USERNAME	ORACLE USER	N	VARCHAR2	30
The database username assigned to the user.				

<< 1998-03-27-11:03 sourced from:346868:348902 >>

FULL USERNAME	DESC 50	N	VARCHAR2	50
The full user name associated with the DATABASE USERNAME.				

<< 1998-03-27-11:04 sourced from:346868:348909 >>

CREATE DATE	N	DATE
The date on which the row was inserted into the database.		

<< 1998-03-27-11:04 sourced from:346868:348903 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE a member of one and only one ORG UNIT
MAY BE granted database authority through one or more USER AUTH GROUP MEMBERSHIPS
* = Relationships in primary unique identifier.

Unique Identifiers:

USER1	Primary	Y
DATABASE USERNAME		

Notes:

<< 1998-03-27-11:03 sourced from:346868:348881 >>

Data Administration
Entity Definition Report

Entity Name: USER AUTHORITY GROUP **Short Name:** ATHGRP

Plural: USER AUTHORITY GROUPS

Init. Volume: 10 **Avg. Volume:** 100 **Max. Volume:** 100 **Annual Growth Rate:**

Description:

A representation of database authorities (capabilities). Oracle

authorities are; select (read), insert, update and delete.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AUTHORITY GROUP NAME	ORACLE USER	N	VARCHAR2	30
The name of the user authority group. This name is also the name of the database role used to implement the database authorities.				

<< 1998-03-27-11:04 sourced from:346868:348905 >>

DESCRIPTION	DESC 256	N	VARCHAR2	256
A description of the user authority group.				

<< 1998-03-27-11:04 sourced from:346868:348906 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE establishing database authority to one or more USER AUTH GROUP MEMBERSHIPS

* = Relationships in primary unique identifier.

Unique Identifiers:

ATHGRP1	Primary	Y
AUTHORITY GROUP NAME		

Notes:

<< 1998-03-27-11:04 sourced from:346868:348887 >>

Entity Name: USER AUTHORITY GROUP MEMBERSHIP			Short Name: ATHGRPM
Plural:	USER AUTH GROUP MEMBERSHIPS		
Init. Volume:	10	Avg. Volume:	100
		Max. Volume:	100
			Annual Growth Rate:

Description:

An association of a user and a user authority group to which they have been assigned.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
EFFECTIVE DATE		N	DATE	
The date on which the membership becomes effective.				

<< 1998-03-27-11:04 sourced from:346868:348904 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- * MUST BE for one and only one USER
- * MUST BE in one and only one USER AUTHORITY GROUP
- * = Relationships in primary unique identifier.

Unique Identifiers:

ATHGRPM1	Primary	Y
MUST BE for one and only one USER		
MUST BE in one and only one USER AUTHORITY GROUP		

Notes:

<< 1998-03-27-11:04 sourced from:346868:348884 >>

Entity Name:	UTILIZATION LEVEL AREA ASSOCIATIO			<i>Short Name:</i>	ULA
<i>Plural:</i>	UTILIZATION LEVEL AREA ASSNS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i>	200
				<i>Annual Growth Rate:</i>	1%

Description:

The association of a tree volume utilization level with its assigned area of application. That is, a defined subset of Utilization Levels for the Coastal and Interior portion of BC.

To date, the standard Resource Inventory Branch practise has been to assign two of the current three Tree Volume Utilization Levels to the respective Coast and Interior portions of the province. It is expected that this practise will be improved to apply a subset of Utilization Levels for a Biogeoclimatic Zone/Subzone, and hence the relationship to BGC ZONAL CLASSIFICATION CD.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AREA ASSN SKEY	SKEY 7	N	NUMBER	7,0
<< 1998-03-26-17:29 sourced from:236464:506758 >>				
MODIFY DATE		Y	DATE	
The date the assignment of a utilization level was modified.				
<< 1998-03-26-17:29 sourced from:236464:506759 >>				
MODIFY USER ID		Y	VARCHAR2	30
CREATE USER ID		N	VARCHAR2	30
CREATE DATE		N	DATE	
The date the assignment of a utilization level was created.				
<< 1998-03-26-17:29 sourced from:236464:433874 >>				
BUSINESS PRECEDENCE NUM	NUM 2	Y	NUMBER	2,0
The order of the utilization levels as applied by the business. This accomodates the business practise of identifying utilization levels as either 'Primary' and 'Secondary' for the Coast and Interior areas.				

Entity Name: UTILIZATION LEVEL AREA ASSOCIATIO (cont'd)

Short Name: ULA

This attribution is included for the purpose of serving the legacy practise of fixed file formats, both FIP and VIFF, as a tree species volume would be uniquely identified by a Utilization Level Num, with ordering a function of the presentation layer (forms or reports). The inclusion of BUSINESS PRECEDENCE NUM also allows for convenient conversion to the VIFF file.

** = Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

MAY BE constrained by one and only one BGC ZONAL CLASSIFCATION CD
or MAY BE constrained by one and only one COAST INTERIOR AREA
or MAY BE constrained by one and only one RCL AREA VALIDN CD
or MAY BE constrained by one and only one COAST INTERIOR AREA
or MAY BE constrained by one and only one RCL AREA VALIDN CD
MAY BE a parameter for one or more BASAL AREA ASSESSMENTS
MAY BE a parameter for one or more CULMINATION ASSESSMENTS
MAY BE a parameter for one or more MEAN DIAMETER ASSESSMENTS
MAY BE a parameter for one or more VEGETATION VOLUME ASSESSMENTS
MUST BE area based implentation of one and only one TREE VOLUME UTILIZATION LEVEL

** = Relationships in primary unique identifier.*

Unique Identifiers:

ULA1

Primary Y

AREA ASSN SKEY

Notes:

<< 1998-03-26-17:29 sourced from:236464:432729 >>

Data Administration
Entity Definition Report

Entity Name: VARIABLE AREA PLOT				Short Name:	VAPLT
Plural:	VARIABLE AREA PLOT CODES				
Init. Volume:	50	Avg. Volume:	100	Max. Volume:	500
Subtype of:	SPATIAL DELIMITER				
				Annual Growth Rate:	5%

Description:

A forest sampling technique which selects those trees larger than a predefined angle of projection from a plot centre location. Thus, the probability of tree selection is proportional to tree diameter and its distance from the sampling point. There is no fixed plot boundary. The area, established from the individual trees and their diameters, would change at each MEASUREMENT VISITATION.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
BASAL AREA FTR	BASAL AREA FTR	Y	NUMBER	5,3
The cross sectional area in square metres (derived from tree diameter at breast height) per unit stand area in hectares corresponding to the angle of projection of the prism or relascope. Applies to variable radius plots only.				
HH93_S PLOT_PL_BA_FACTOR, PLOT_SUB_BA				
SEF_S CT2:30-34, 52-56 BASAL AREA FACTOR				
<< 1998-03-27-09:37 sourced from:346868:346802 >>				
INSTRUMENT TYPE CD	VARIABLE RAD INST TYPE	Y	VARCHAR2	1
A code to indicate what instrument was used to select trees in the sample.				
HH93_S SAMPLE_SA_METHOD				
SEF_S CT2:25 SAMPLING METHOD				
<< 1998-03-27-09:37 sourced from:346868:346803 >>				

* = Attributes in primary unique identifier.

Notes:

<< 1998-03-27-09:37 sourced from:346868:346801 >>

Entity Name:	VDYP APPLICATION BOUND	Short Name:	VAB
Plural:	VDYP APPLICATION BOUNDS		
Init. Volume:	Avg. Volume:	Max. Volume:	Annual Growth Rate:

Description:

The limits and defaults for the Variable Density Yield Prediction (VDYP) software module. VDYP calculates tree volume and calls site index calculation modules.

These limits and bounds are applied to contain VDYP to the general range of the forest cover data that the VDYP algorithm was developed with.

This entity is retained in the Vegetative Cover application for two purposes:

- determining a default crown closure for a the FIP to BC Land Cover Classification rule and
- in its original intent, facilitation of the within database VDYP operation.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* VDYP BOUND SKEY	SKEY 7	N	NUMBER	7,0
The system generated surrogate identifier.				
Generated from VDYP_BND_SEQ				
<< 1998-03-27-13:19 sourced from:236464:739656 >>				
SITE INDEX MAXIMUM	SITE INDEX	N	NUMBER	3,1
The maximum, base age 50 years, site index value used by VDYP.				

Entity Name:

VDYP APPLICATION BOUND (cont'd)

Short Name:

VAB

<< 1998-03-27-13:19 sourced from:236464:738826 >>

AGE MAXIMUM	TREE AGE	N	NUMBER	3,0
The maximum tree age value supplied to VDYP.				

<< 1998-03-27-13:19 sourced from:236464:738827 >>

HEIGHT MAXIMUM	TREE HEIGHT 3 1	N	NUMBER	3,1
The maximum height used by VDYP.				

<< 1998-03-27-13:19 sourced from:236464:739243 >>

CROWN CLOSURE MINIMUM	PERCENTAGE 100 MIN 1	N	NUMBER	3
The minimum crown closure threshold value for VDYP. Volumes below the minimum are calculated by pro-rating between 0 and the volume at the minimum crown closure.				

<< 1998-03-27-13:19 sourced from:236464:738828 >>

CROWN CLOSURE MAXIMUM	PERCENTAGE 100 MIN 1	N	NUMBER	3
The maximum crown closure value for VDYP. Volumes below the minimum are calculated by pro-rating between 0 and the volume at the minimum crown closure.				

<< 1998-03-27-13:19 sourced from:236464:738831 >>

CROWN CLOSURE AGE MINIMUM	TREE AGE	N	NUMBER	3,0
The minimum age for which the supplied crown closure is used. Volumes and diameters are calculated using the default crown closure when the supplied age is below this minimum.				

<< 1998-03-27-13:19 sourced from:236464:738833 >>

DEFAULT CROWN CLOSURE	PERCENTAGE 100 MIN 1	N	NUMBER	3
The default crown closure value applied where missing in the FIP file for forest cover polygons.				

<< 1998-03-27-13:19 sourced from:236464:739242 >>

* = Attributes in primary unique identifier.

Entity Name:	VDYP APPLICATION BOUND (cont'd)	<i>Short Name:</i>	VAB
---------------------	---------------------------------	--------------------	-----

Relationships:

Each Occurrence Of This Entity:

- MUST BE constricted by one and only one COAST INTERIOR AREA
- MUST BE constricted by one and only one COAST INTERIOR AREA
- MUST BE constricted by one and only one TAXONOMIC NAME

* = Relationships in primary unique identifier.

Unique Identifiers:

VAB1	Primary	Y
VDYP BOUND SKEY		

Notes:

<< 1998-03-27-13:19 sourced from:236464:738820 >>

Entity Name:	VEGETATION ESTABLISHMENT ASSMT			<i>Short Name:</i>	VEA
<i>Plural:</i>	VEGETATION ESTAB ASSMTS				
<i>Init. Volume:</i>	<i>Avg. Volume:</i>	<i>Max. Volume:</i>	<i>Annual Growth Rate:</i>		

Description:

The major observable factors that are relevant to the development of the existing vegetation and soil characteristics. The development period is generally considered to be the past 500 years.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* RANK		N	NUMBER	2,0
The field observed order of importance.				

<< 1998-03-26-16:38 sourced from:7003:569062 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- * MUST BE a component of one and only one SUCCESSION INTERPRETATION
- * MUST BE recorded interpretation of one and only one SITE DISTURBANCE CD
- * = Relationships in primary unique identifier.

Unique Identifiers:

VEA1	Primary	Y
MUST BE a component of one and only one SUCCESSION INTERPRETATION		
MUST BE recorded interpretation of one and only one SITE DISTURBANCE CD		
RANK		

Notes:

<< 1998-03-26-16:38 sourced from:7003:219017 >>

Entity Name:	VEGETATION LAYER CD	<i>Short Name:</i>	VLC
<i>Plural:</i>	VEGETATION LAYER CDS		
<i>Init. Volume:</i>	8	<i>Avg. Volume:</i>	30
		<i>Max. Volume:</i>	50
		<i>Annual Growth Rate:</i>	1%

Description:

A formally designated layer of vegetation defined by a combination of height and/or substrate and/or lifeform.

Examples are:

A -meaning all trees > 10m, independant of crown class

(including A1, A2, A3)

B1- meanig tall shrubs or short trees

B2- meaning low shrubs

C- meaning herbs

D - meaning mosses, lichens, liverworts, and tree seedlings

Dh - meaning mosses, lichens, liverworts, and tree seedlings

in soil.

Dw - meaning mosses, lichens, liverworts, and tree seedlings

in wood.

Dr - meaning mosses, lichens, liverworts, and tree seedlings

in rock.

Entity Name:	VEGETATION LAYER CD (cont'd)	<i>Short Name:</i>	VLC
Sampling Procedures, Mar. 31, 1997 version.			

The association of

lifeform to layer is rather tenuous eg. The A layers must be trees

only because of the height restriction (shrubs do not grow to 10m);

the B layers can be trees or shrubs dictated by height; and finally

trees can be found if the D layer if they are seedlings < 2 years old.

<i>Attributes:</i>				
<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* VEGETATION LAYER CD		N	VARCHAR2	3
<< 1998-03-26-16:41 sourced from:7003:235238 >>				
LAYER DESC		Y	VARCHAR2	256
<< 1998-03-26-16:41 sourced from:7003:235239 >>				
MIN HEIGHT BOUND		Y	NUMBER	4,2
The minimum height requirements for a plant to belong to the layer.				
<< 1998-03-26-16:41 sourced from:7003:578393 >>				
MAX HEIGHT BOUND		Y	NUMBER	4,2
The maximum height requirement for the plant to belong to the layer.				
<< 1998-03-26-16:41 sourced from:7003:578394 >>				
SUBSTRATE TYPE CD	VEGETATION SUBSTRATE TYPE	Y	VARCHAR2	1
The classification for the type of ground that supports an occurence of a plant species. Substrates recognized in Vegetation Inventory are, soil, wood, and rock.				
<< 1998-03-26-16:41 sourced from:7003:578392 >>				

* = Attributes in primary unique identifier.

Relationships:

Entity Name:	VEGETATION LAYER CD (cont'd)	Short Name:	VLC
---------------------	------------------------------	--------------------	-----

Each Occurrence Of This Entity:

MAY BE assessed by one or more VEGETATION LAYER OVERALL COVERS
MAY BE classifying one or more RANGE VEGETATION MEASMTS
MAY BE the subject of one or more VEGETATION LYR COVER ASSMTS
* = Relationships in primary unique identifier.

Unique Identifiers:

VLC1	Primary	Y
VEGETATION LAYER CD		

Notes:

<< 1998-03-26-16:41 sourced from:7003:235232 >>

Entity Name:	VEGETATION LAYER COVER ASSMT			<i>Short Name:</i>	VCA
<i>Plural:</i>	VEGETATION LYR COVER ASSMTS				
<i>Init. Volume:</i>	100	<i>Avg. Volume:</i>	200	<i>Max. Volume:</i>	500
<i>Subtype of:</i>	NON TREE ELEMENT ASSMT			<i>Annual Growth Rate:</i>	1%

Description:

The assessment of the coverage of vegetation layers and/or types
over a defined area.

This includes both tree and shrub layers and herb and moss layers.

For vegetation inventory samples, the tree and shrub layers are
collected on the ET card, while herbs and mosses cover data is
collected on the EH card.

The collected data is similar for both and in the course of analysis,
it was determined that the same entiy can serve both classifications
(cards in effect) if the appropriate life form was identified.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* VEG LAYER COV SKEY		N	NUMBER	7,0
System generated UID from ORACLE sequence veg_layer_cov_seq.				
<< 1998-03-26-16:41 sourced from:7003:537316 >>				
COVER PCT		N	NUMBER	6,3
The estimated ground coverage of the vertical projection of the crown/foiliation of the plant species.				
<< 1998-03-26-16:41 sourced from:7003:235195 >>				
STRATA AVERAGE HT		Y	NUMBER	4,2
The estimated average height of the plant species of a vegetation layer.				

Entity Name:

VEGETATION LAYER COVER ASSMT (cont'd)

Short Name:

VCA

For Vegetation Inventory samples, applied to the B1 and
B2 layers.

<< 1998-03-26-16:41 sourced from:7003:235199 >>

FIELD SEQ NUM

Y NUMBER

3,0

<< 1998-03-26-16:41 sourced from:7003:578395 >>

FIELD CARD ITEM NUM

Y NUMBER

3,0

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:
MUST BE describing the coverage of one and only one VEGETATION LAYER CD
* = Relationships in primary unique identifier.

Unique Identifiers:

VCA1	Primary	Y
VEG LAYER COV SKEY		

Notes:

<< 1998-03-26-16:41 sourced from:7003:222105 >>

Entity Name: VEGETATION LAYER OVERALL COVER			Short Name:	VLOC
Plural:	VEGETATION LAYER OVERALL COVERS			
Init. Volume:	100	Avg. Volume:	300	Max. Volume: 500
Subtype of: NON TREE ELEMENT ASSMT			Annual Growth Rate:	1%

Description:

The estimation of a vegetation layer's coverage as a percentage of the areal coverage of the plot. This is an estimate that includes all vegetation species of a layer. Each species in turn is assessed for coverage as an individually under Vegetation Cover Assmts.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
COVER PCT	PERCENTAGE 100	N	NUMBER	3,0
The overall percentage coverage of a vegetation layer (all plant species) as estimated in the field.				

<< 1998-03-26-16:45 sourced from:7003:407867 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- * MUST BE an estimate of one and only one VEGETATION LAYER CD
- * = Relationships in primary unique identifier.

Unique Identifiers:

VLOC1	Primary	Y
MUST BE an estimate of one and only one VEGETATION LAYER CD		

Notes:

<< 1998-03-26-16:45 sourced from:7003:407860 >>

Entity Name:	VEGETATION VOLUME ASSESSMENT			<i>Short Name:</i>	VV
<i>Plural:</i>	VEGETATION VOLUME ASSESSMENTS				
<i>Init. Volume:</i>	5000000	<i>Avg. Volume:</i>	12000000	<i>Max. Volume:</i>	20000000
				<i>Annual Growth Rate:</i>	10%

Description:

The volume of vegetation, though typically the volume of the woody
bole portion of the vegetation.

Primarily used for trees, and often netted down by factors allowing
for average decay and expectable waste and breakage in harvesting.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* VOLUME SKEY		N	NUMBER	14,0
The system generated surrogate identifier.				
Generated from VEG_VOL_SEQ.				
<< 1998-03-26-17:30 sourced from:236464:670210 >>				
CREATE USER ID		N	VARCHAR2	30
ORACLE user id of the person who craeted the record.				
<<1997-12-09-14:27 sourced from:236464:422006>>				
<< 1998-03-26-17:30 sourced from:236464:681670 >>				
CREATE DATE		N	DATE	
The calendar date (yyyy-mm-dd hh24:mi:ss format) when the record was created.				
<<1997-12-09-14:27 sourced from:236464:422005>>				
<< 1998-03-26-17:30 sourced from:236464:681669 >>				
MODIFY USER ID		Y	VARCHAR2	30
ORACLE user id of the last user to modify the record.				

Entity Name:VEGETATION VOLUME ASSESSMENT (cont'd)

Short Name:VV

<<1997-12-09-14:27 sourced from:236464:422008>>

<< 1998-03-26-17:30 sourced from:236464:681672 >>

MODIFY DATEY DATE

The date the record was last modified.

<<1997-12-09-14:27 sourced from:236464:422007>>

<< 1998-03-26-17:30 sourced from:236464:681671 >>

TREE VOLUME PER HATREE SPECIES VOLUME PER HAN NUMBER10,4

The volume of the woody bole portion of the vegetation. Primarily used for trees, and often netted down by factors allowing for average decay and expectable waste and breakage in harvesting.

<<1997-11-18-15:19 sourced from:236464:427609>>

<<1997-12-05-16:18 sourced from:236464:670135>>

<< 1998-03-26-17:30 sourced from:236464:679758 >>

INTERPRETATION SOURCE CDINTERPRETATION DATA SOURCEY NUMBER2

The interpretation source.

<< 1998-03-26-17:30 sourced from:236464:786454 >>

SOURCE TYPEDATA SOURCE TYPEN VARCHAR25

The basic source type of the data; either Collected or Derived. This is utilized to distinguish occurrences of attributes that can come from either source.

Expected to be used for FIP sourced data only; all within-database derivations will have a DERIVATION TRANSACTION occurrence to identify derived data.

<< 1998-03-26-17:30 sourced from:236464:786455 >>

* = Attributes in primary unique identifier.

Relationships:

Entity Name:

VEGETATION VOLUME ASSESSMENT (cont'd)

Short Name:

VV

Each Occurrence Of This Entity:

MUST BE derived by one and only one UTILIZATION LEVEL AREA ASSOCIATION
MUST BE describing one and only one BUSINESS OBJECT ASSESSMENT
* = Relationships in primary unique identifier.

Unique Identifiers:

VV1	Primary	Y
VOLUME SKEY		

Notes:

<< 1998-03-26-17:30 sourced from:236464:670204 >>

Entity Name: VERSION AUDIT METADATA				<i>Short Name:</i>	VAM
<i>Plural:</i> VERSION AUDIT METADATA					
<i>Init. Volume:</i>	5000	<i>Avg. Volume:</i>	10000	<i>Max. Volume:</i>	15000
				<i>Annual Growth Rate:</i>	5%

Description:

The metadata that describe the business processes that are executed against the set of polygons that comprise of a mapsheet.

The attribution related to FIP-based processes, (UPDATE, FIP CHECK, VDYP and PROJECTION) are contained in this entity for legacy retention purposes only. It is expected that all derivation transactions and source module occuring in the Veg. Cover application will be recorded in DERIVATION TRANSACTION.

The record occurence counts (%CNT) used during the source flat file load are retained here for the purpose of verifying supplied client data has completely transmitted and loaded.

The temporality of polygons is represented as a new version of a new set for an entire 6x12 BCGS mapsheet.

There is no spatial reference of polygons between versions. For example, polygon #6 of version 2.0 has no spatial or decriptive relationship to polygon #6 of version 2.1. This is true under the current architecture where no integration of spatial and text data is implemented.

Note: (98-03) Future consideration should be given to amalgamating the VERSION AUDIT METADATA with the MUMS application entity,

Entity Name:

VERSION AUDIT METADATA (cont'd)

Short Name:

VAM

TEXT FILE VERSION. These describe the same business object, metadata of a version release, but from differing perspectives. No amalgamation undertaken at this writing on account of time constraints of implementation.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SOURCE SKEY	The system generated unique identifier of an Originating Source.	N	NUMBER	14,0
Generated by SOURCE_SEQ.				
<< 1998-04-13-09:08 sourced from:236464:506326 >>				
CREATE DATE		Y	DATE	
Date:Time stamp when the system createdthe record.				
(this is addedas an attribute at the supertype to test a problem with the database design wizzard).				
<< 1998-04-13-09:08 sourced from:236464:442993 >>				
CREATE USER ID		N	VARCHAR2	30
The user id for the individual that created the occurence.				
<< 1998-04-13-09:08 sourced from:236464:506324 >>				
MODIFY DATE		Y	DATE	
The date the data was modified.				
<< 1998-04-13-09:08 sourced from:236464:506323 >>				
MODIFY USER ID		Y	VARCHAR2	30
The user id for the individual that modified the occurence.				
<< 1998-04-13-09:08 sourced from:236464:506325 >>				
SERIAL NUM DATE		Y	DATE	
The date simutaneously assigned to a graphics file and its associated				

Entity Name: VERSION AUDIT METADATA (cont'd)

Short Name: VAM

text file for the purpose of uniquely identifying a version.

This attribute is one of three components of the compound business key, file 'Serial Number'. The three components in their commonly used order are:

Mapsheet Id (BCGS 6x12 MAPSHEET ID)

SERIAL NUM DATE

SERIAL VERSION NUM.

The SERIAL NUM DATE is assigned at the time of creation of the 'resultants', (forest cover polygons bisected by multiple themes in the '.EDI file) and their integration with the text file. Assignment is made by a controlled process on a secure, multiuser system, and therefore, the date retains its integrity unlike those sourced from stand-alone PC systems, or other disconnected processes that independently assign a value (e.g. SERIAL NUM DATE).

Also known as GRAPHICS DATE and/or GRAPHICS CREATION DATE in the FIP file, though a misnomer.

This definition and attribute name are consistent with MUMS.

<< 1998-04-13-09:08 sourced from:236464:594992 >>

SERIAL VERSION NUMY NUMBER4,0

The number simultaneously assigned to a graphics file and its associated text file for the purpose of uniquely identifying a version.

Entity Name:	VERSION AUDIT METADATA (cont'd)	<i>Short Name:</i>	VAM
---------------------	---------------------------------	--------------------	-----

This attribute is one of three components of the FIP compound business key, 'Serial Number'. The three components in their commonly used order are:

Mapsheet Id (BCGS 6x12 MAPSHEET ID)

SERIAL NUM DATE

SERIAL VERSION NUM. (aka GRAPHICS VERSION NUMBER)

The SERIAL VERSION NUM is assigned at the time of creation of the 'resultants', (forest cover polygons bisected by multiple themes in the '.EDI file) and their integration with the text file.

It should be noted that despite the intention of this attribute contributing to the business key identifier, SERIAL VERSION NUM appears to be of limited usefulness. Firstly, the Mapsheet Id and the SERIAL NUM DATE (above) provide all the unique identification required, and secondly, the Object Distribution Management system (ODM) creates a version number based on checking in/out for data maintenance that is independently assigned. This confusion, borne of disconnected activities, causes loss of integrity for business use.

<< 1998-04-13-09:08 sourced from:236464:594991 >>

PROJECTION DATE

Y DATE

The date to which tree volume and growth variables are projected to.

This value is sourced from a mapping to the FIP file, or populated on output of the VIFF file.

Entity Name: VERSION AUDIT METADATA (cont'd)

Short Name: VAM

Known as the PROJECTED DATE in the FIP file.

Same as the PROJECTION DATE in DERIVATION TRANSACTION and retained redundantly here to accomodate the transaction metadata that occurred in the FIP environment.

<< 1998-04-13-09:08 sourced from:236464:594999 >>

PROJECTION CREATE DATE

Y DATE

The date the source file was updated for derivation of the tree volumes and their projection, i.e. the 'completion' processes. The date is updated by either of the local FCAP application or the Resource Inventory Branch VAX.

The 'completion' process, as it is currently understood, performs a number of precursor 'data housekeeping' activities which then support the execution of the Variable Density Yield Prediction (VDYP) application that projects tree volumes to a specified date.

This attribute is retained maionly for legacy reasons, as the VDYP application may be executed directly within the Vegetative Cover database in a later development phase.

This attribute maps directly to the FIP attribute named, LAST_FIPUPDATE_DATE.

<< 1998-04-13-09:08 sourced from:236464:594994 >>

PROJECTION SOFTWARE VER ID

Y VARCHAR2

8

The version identifier of the Variable Density Yield Prediction (VDYP) used to calculate tree volumes and their projections.

Entity Name:	VERSION AUDIT METADATA (cont'd)	<i>Short Name:</i>	VAM
---------------------	---------------------------------	--------------------	-----

The version identifier is updated by either of the local
FCAP application or the Resource Inventory Branch VAX.

Also known in the FIP file as LAST FIP UPDATE VERSION.

<< 1998-04-13-09:08 sourced from:236464:594995 >>

LAST VALIDN DATE

Y DATE

The last most date the file was validated using external (to the
Vegetative Cover database) application software.

The expected application software that would
populate this attribute is the FIPCHECK application software. It
validates the FIP ASCII file for valid values and combinations of
values.

The date is updated by either of the local FCAP application
('FIPCHECK') or the Resource Inventory Branch VAX ('FIP_CHECK').

Known as LAST ERROR CHECK DATE in the FIP system.

<< 1998-04-13-09:08 sourced from:236464:594996 >>

LAST DATA MODIFN DATE

Y DATE

The last date the source exchange file was modified in the Forest
Cover Attribute Processing (FCAP) application or other external
data modification application.

The date is programmatically assigned by the FCAP application.

Entity Name: VERSION AUDIT METADATA (cont'd)

Short Name: VAM

The LAST MODIFICATION DATE serves as a business user reminder of when the file was last updated, but the integrity of this date is suspect because the FIP data can be accessed directly in ASCII format, or the PC platform date can be manipulated by the end user.

This attribute is retained only for legacy reasons.

This attribute maps directly to the FIP attribute named, LAST FIP EDIT DATE.

<< 1998-04-13-09:08 sourced from:236464:594993 >>

LAST VALIDN APPN VER ID

Y VARCHAR28

The version identifier of the Variable Density Yield Prediction (VDYP) used to calculate tree volumes and their projections.

The version identifier is updated by either of the local FCAP application or the Resource Inventory Branch VAX.

Also known in the FIP file as LAST FIP UPDATE VERSION.

<< 1998-04-13-09:08 sourced from:236464:594997 >>

LAST SINDEXT VER ID

Y VARCHAR28

The version of the Site Index Tools (SINDEX) used to calculate all SITE INDEX variables in the file.

A new attribute to Vegetative Cover, introduced to isolate the site index version from the other application software, e.g. VDYP, that may run the site index software.

Entity Name: VERSION AUDIT METADATA (cont'd)

Short Name: VAM

<< 1998-04-13-09:08 sourced from:236464:594998 >>

DATA LOAD DATE

Y DATE

The date the file was loaded to the Vegetative Cover database.

<< 1998-04-13-09:08 sourced from:236464:595000 >>

POLYGON OCCUR CNT

Y NUMBER

6,0

A count of the number of POLYGON records received when the file was forwarded and processed into the database.

SOURCE FILE NAME

Y VARCHAR2

25

The operating system name of the originating file including the file extension.

<< 1998-04-13-09:08 sourced from:236464:595047 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

- MAY BE created by one and only one VGIS PROJECT
- MAY BE created from one and only one DATA FORMAT
- MAY BE interpreted by one and only one AGENCY PERSON ASSOCIATION
- MAY BE the originating source of one or more POLYGONS
- MUST BE defined for one and only one MAPSHEET COMPONENT

* = Relationships in primary unique identifier.

Unique Identifiers:

VAM1

Primary Y

SOURCE SKEY

Notes:

<< 1998-04-13-09:08 sourced from:236464:382240 >>

Entity Name: VGIS AGENCY			<i>Short Name:</i>	AGNCY
<i>Plural:</i>	VGIS AGENCIES			
<i>Init. Volume:</i>	75000	<i>Avg. Volume:</i>	80000	<i>Max. Volume:</i> 100000
			<i>Annual Growth Rate:</i>	5%

Description:

An organization, legal entity or business unit that either has engaged in a business capacity with the Ministry (external, Forest Client). The nature of the business can be fiscal transaction, collaborative or otherwise informal.

This entity amalgamates corporate business areas from two sources and also incorporates (current) inconsistencies found in legacy data.

The two corporate sources are:

- FOREST CLIENT, which are external agencies and
- ORG UNIT, which identify internal Ministry business units.

In theory the above two sub-types are needed and would be refreshed from these two sources only.

However, the AGENCY entity also carries alternate codes to further accomodate legacy business requirements which appear to have no reconcilliation in the above sources. Hence the:

- OTHER CLIENT (e.g. FPC, Forest Productivity Council, codes) and
- MUMS SOURCED (eg. unvalidated title block text strings)

are retained as separate subtypes. With dedicated business forensic

Entity Name: VGIS AGENCY (cont'd)

Short Name: AGNCY

work, these latter two sub-types could be deleted.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AGENCY SKEY	SKEY 7	N	NUMBER	7,0
Sequentially assigned number to identify a Ministry Agency/Client.				
<< 1998-03-25-16:26 sourced from:346868:346956 >>				
AGENCY NAME		N	VARCHAR2	100
The name of the agency. Usually the name will be supplied from				
either the MOF CLIENT code table or the MOF ORG UNIT table which				
are deemed to be mutually exclusive. Otherwise, the name would be				
manually entered.				
The name of the agency; external client or MoF business unit.				
<< 1998-03-25-16:26 sourced from:346868:348946 >>				
AGENCY TYPE CD	AGENCY TYPE	Y	VARCHAR2	5
A legal or organizational type of agency particular to this				
application.				
This in time, should be rationalized with the MOF CLIENT_TYPE_CODE				
which is currently incomplete in serving Growth & Yield needs				
(95-03) and the custodian promises to 'look' at the issue at the				
next change window.				
<< 1998-03-25-16:26 sourced from:346868:347087 >>				
FPC AGENCY CD		Y	VARCHAR2	8
The agency, as codified by the Forest Productivity Council, Minimum				
Standards for PSP's, 1990. This code is useful for field data				
collection, although it is not a corporate standard.				
<< 1998-03-25-16:26 sourced from:346868:347515 >>				
VM AGENCY SKEY		Y	NUMBER	10,0
The surrogate identifier as supplied from one of two source corporate				

Entity Name: VGIS AGENCY (cont'd)

Short Name: AGNCY

code tables; FOREST CLIENT or ORG UNIT. Retained for business

linkage purposes for later update from the same sources.

A supplied non-key Ministry surrogate identifier; not used as a key.

<< 1998-03-25-16:26 sourced from:346868:348947 >>

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE a member of one or more AGENCY PERSON ASSOCIATIONS

MAY BE belonging to one and only one VGIS AGENCY

MAY BE containing one or more VGIS AGENCIES

MAY BE determined by one or more ROLE ASSOCIATIONS

MAY BE operating at one or more VGIS CLIENT LOCATIONS

** = Relationships in primary unique identifier.*

Unique Identifiers:

AGNCY1 Primary Y

AGENCY SKEY

Notes:

Nov 8, 1995 JRT

- defined mapping of agency_type_Cd on initial load

of AGENCIES from the ministry CLIENT sqllda table:

- CLIENT_TYPE_CODE from sqda maps to

out AGENCY, agency type cd (domain agency type) as:

A Associations ==> ASSN

C Corporation ==> CORP

G Government ==> UNGOV

B Indian Band ==> INDN

I Individual ==> INDIV

J Joint Venture ==> JOINV

P Partnership ==> PART

S Society ==> SOCIE

Entity Name:

VGIS AGENCY (cont'd)

Short Name:

AGNCY

All Org_unit Codes loaded from the ORG_UNIT

ministry table are assigned agency type code

PROVG on insertion into AGENCIES.

April 4, 1996 TMC

Agency has three sub-type entities: Forest Client (FCLNT), Org Unit (ORGUN), and Other Client (OCLNT).

The legal_first_name, legal_middle_name, and client_type_cd are of the Forest Client. the

MOF_org_unit_cd is of the Org Unit.

<< 1998-03-25-16:26 sourced from:346868:346867 >>

Subtypes:

- FOREST CLIENT
- MUMS SOURCED AGENCY
- ORG UNIT
- OTHER CLIENT

Data Administration
Entity Definition Report

Entity Name: VGIS CLIENT LOCATION				Short Name:	CLNLN
Plural:	VGIS CLIENT LOCATIONS				
Init. Volume:	85000	Avg. Volume:	90000	Max. Volume:	100000
				Annual Growth Rate:	5%

Description:

The description and the details of the address(es) at which

a CLIENT operates. This may be the head office,or if

applicable, additional branch offices.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
ADDRESS_1		Y	VARCHAR2	40
The first line of a client's address.				
<i>The first line of a client's address.</i>				
<< 1998-03-25-16:29 sourced from:346868:347330 >>				
ADDRESS_2		Y	VARCHAR2	40
The second line of a client's address.				
<i>The second line of a client's address.</i>				
<< 1998-03-25-16:29 sourced from:346868:347331 >>				
CITY		Y	VARCHAR2	30
The town or city of the client's address.				
<i>The town or city of the client's address.</i>				
<< 1998-03-25-16:29 sourced from:346868:347332 >>				
* CLIENT LOCN CODE		N	VARCHAR2	2
A code to uniquely identify, within each client, the addresses of				
different divisions or locations at which the client operates.				
<i>The code for a division, branch office etc. of a client.</i>				
<< 1998-03-25-16:29 sourced from:346868:347328 >>				
CLIENT LOCN NAME		Y	VARCHAR2	40
The name of a division or branch office of a client. Separate				
from the location.				
<i>The name of a division or branch office of a client.</i>				

Data Administration
Entity Definition Report

Entity Name: VGIS CLIENT LOCATION (cont'd) **Short Name:** CLNLN

<< 1998-03-25-16:29 sourced from:346868:347329 >>

CLIENT NUMBER N VARCHAR2 8
A unique identifier of a CLIENT.

A unique identifier of a CLIENT.

<< 1998-03-25-16:29 sourced from:346868:347327 >>

COUNTRY Y VARCHAR2 6
The country in which the client is located.

The country in which the client is located.

<< 1998-03-25-16:29 sourced from:346868:347334 >>

POSTAL CODE Y VARCHAR2 10
The code as designated by the central postal service of the COUNTRY.

May include US zip code or other.

The code as designated by the central postal service of the COUNTRY.

<< 1998-03-25-16:29 sourced from:346868:347335 >>

PROVINCE Y VARCHAR2 5
The province or state of the CLIENT's address.

The province or state of the CLIENT's address.

<< 1998-03-25-16:29 sourced from:346868:347333 >>

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MUST BE a valid address for one and only one VGIS AGENCY

* = Relationships in primary unique identifier.

Unique Identifiers:

CLNLN1 Primary Y
CLIENT LOCN CODE

Notes:

<< 1998-03-25-16:29 sourced from:346868:347159 >>

Entity Name: VGIS FOREST REGION				Short Name:	FREG
Plural:	VGIS FOREST REGIONS				
Init. Volume:	300	Avg. Volume:	500	Max. Volume:	1000
			Annual Growth Rate:		

Description:

Samples are collected primarily in Forest regions. There are 6 regions
Cariboo, Kamloops, Nelson, Prince George, Prince Rupert, and Vancouver.

This entity is needed for Site Series. Since Forest Research defines there codes by Region

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* FOR REGION SKEY		N	NUMBER	1,0
FOR REGION CD		N	CHAR	3
<i>Allowable Values of Attribute</i>				
CAR	Cariboo			
KAM	Kamloops			
---	No Region			
NEL	Nelson			
PG	Prince George			
PR	Prince Rupert			
VAN	Vancouver			
DESCRIPTION		N	VARCHAR2	50
* = Attributes in primary unique identifier.				

Relationships:

Each Occurrence Of This Entity:

MAY BE containing one or more VGIS PROJECTS
MAY BE defined within one or more SITE SERIES CDS
* = Relationships in primary unique identifier.

Unique Identifiers:

FR1	Primary	Y
FOR REGION SKEY		

Notes:

- two relationships are needed
1. to Projects
 2. to Site Series Codes.
- If at any time a sample crosses two region boundaries a third relationship will be needed too Plot Clusters.

Data Administration

Entity Definition Report

Entity Name: VGIS HIST G A CALL SAM POINT			Short Name: VHGASP
Plural:	VEG HIST G A CALL SAM POINTS		
Init. Volume:	50000	Avg. Volume:	Max. Volume:
			Annual Growth Rate: 0%

Description:

Contans identification, responsibility and location information for MOF point Historical Air and Ground call sanples and also Vegetation Ground Samples. The Historic points have no attribute location information contained in any database and were transformed from Intergraph GIS enviornment to current ArcGIS enviornment. They were collected before 1997. All other Sample were collected after 1997 and are part of the VGIS (Vegetation Ground Inventory Samples) application.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* AIR GRND CALL SAM ID		N	NUMBER	10
This is a system generated value uniquely identifying the Sample Plot.				
MAP SHEET ID		N	VARCHAR2	7
The map sheet identifier for a 1:20000 BCGS map				
Example: 92E008				
FOREST DISTRICT CD		N	VARCHAR2	3
Forest District Code -- first letters the ORG_LEVEL_CODE and the last two are OFFICE_NAME_CODE				
<i>the foreign key ORG_UNIT_NO populated from the ORG_UNIT table will be done on the basis of this code coming into the Sample Plot table.</i>				
SAMPLE NUMBER		Y	VARCHAR2	4
This is the original data field of the cell- exported as text for the Intergragh Design file.				
These cells could have up to 3 data fields amxium of 16 characters				
SAMPLE YEAR OF ESTAB		Y	VARCHAR2	4
This is the original data field of the cell- exported as text for the Intergragh Design file.				
These cells could have up to 3 data fields amxium of 16 characters				
UTM ZONE		N	NUMBER	2
Universal Trans Mercator (UTM) Zone.				
In British Columbia we have 4 Zones 8,9,10,11 and a tiny bit of 7.				
<i>Zone for Universal Transverse Mercador mapping system.</i>				
<i>for BC they are 9, 10 and 11.</i>				
UTM EASTING		N	NUMBER	6
Universal Trans Mercator (UTM) Easting-Westing coordinate.				
UTM NORTHING		N	NUMBER	7
Universal Trans Mercator (UTM) Northing-Southing coordinate				
OBJECTID		Y	CHAR	
This is a required attribute of feature classes and object classes in a geodatabase. This attribute is added to a SDE layer that was not previously created as part of a geodatabase but is now being registered with a geodatabase.				
FEATURE CODE		Y	VARCHAR2	10
A feature code is most importantly a means of linking a feature to its name and definition.				
For example, the code GB15300120 on a digital geographic feature links it to the name "Lake - Dry" with the definition "A lake bed from which all water has drained or evaporated."				
The feature code does NOT mark when it was digitized, what dataset it belongs to, how				

Entity Name:	VGIS HIST G A CALL SAM POINT (cont'd)	Short Name:	VHGASP
---------------------	---------------------------------------	--------------------	--------

accurate it is, what it should look like when plotted, or who is responsible for updating it. It only says what it represents in the real world.

It also doesn't even matter how the lake is represented. If it is a very small lake, it may be stored as a point feature. If it is large enough to have a shape at the scale of data capture, it may be stored as an outline, or a closed polygon. The same feature code still links it to the same definition.

GEOMETRY	Y	NUMBER	38
----------	---	--------	----

This is a ArcSDE spatial column.

* = *Attributes in primary unique identifier.*

Relationships:
Each Occurrence Of This Entity:

- MAY BE has data managed by one and only one CORP ORG UNIT
- MAY BE has location identified by one and only one CORP ORG UNIT
- MUST BE has codes manged by one and only one RCL AREA VALIDN CD
- MUST BE has codes manged by one and only one RCL AREA VALIDN CD
- MUST BE has codes manged by one and only one VGIS SAMPLE CODE
- MUST BE has codes manged by one and only one VGIS SAMPLE CODE

* = *Relationships in primary unique identifier.*

Unique Identifiers:

VHGASP_PK	Primary	Y
AIR GRND CALL SAM ID		

Entity Name: VGIS PROJECT				<i>Short Name:</i>	PRJ
<i>Plural:</i>	VGIS PROJECTS				
<i>Init. Volume:</i>	1000	<i>Avg. Volume:</i>	2000	<i>Max. Volume:</i>	5000
				<i>Annual Growth Rate:</i>	2%

Description:

A defined initiative that collects, updates, modifies and augments data associated with natural resource inventories.\

Typically, this involves the update of vegetative (aka. forest) cover descriptions and their mapped form, though other initiatives such as conversion of 'forest cover' (in FIP format) to Vegetation Inventory standards would be included.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PROJECT SKEY		N	NUMBER	7,0
The surrogate identifier of a Project.				
Populated from the Oracle sequence PROJECT SKEY SEQ.				
<< 1998-03-25-16:59 sourced from:416792:435091 >>				
PROJECT STATUS	PROJECT STATUS	N	VARCHAR2	3
The status of a project as it pertains to inventory map and forest cover update or re-inventory.				
<< 1998-03-25-16:59 sourced from:416792:465823 >>				
PROJECT BUSINESS ID		Y	VARCHAR2	10
The business assigned identifier of a project.				
<< 1998-03-25-16:59 sourced from:416792:420589 >>				
PROJECT NAME		N	VARCHAR2	50
The business assigned name of the project. The name typically reflects a Timber Supply Area, an initiating Agency, or a land area.				
<< 1998-03-25-16:59 sourced from:416792:420599 >>				
PROJECT TYPE CD	INV PROJECT CATEGORY TYPE	Y	VARCHAR2	10

Entity Name: VGIS PROJECT (cont'd)

Short Name:PRJ

The general category of the central objective of the project. A project, particularly the update of digital graphics files, may undertake more than the original intent.

Within the forest inventory context, the types of projects expected are:

- audits,
- Vegetation Inventory Phase 1 or 2, etc.

The source of project types is the IPM system, with additions and deletions based on discussion with FRGIS personnel.

<< 1998-03-25-16:59 sourced from:416792:420600 >>

START DATEY DATE

The date the project begun.

<< 1998-03-25-16:59 sourced from:416792:420601 >>

END DATEY DATE

The date the project ended.

<< 1998-03-25-16:59 sourced from:416792:420602 >>

FISCAL YEARY DATE

The identifying latter calendar year of a fiscal year. A fiscal year spans two calendar years; April 1 through March 31, and the calendar year of March 31 identifies the fiscal year.

<< 1998-03-25-16:59 sourced from:416792:420603 >>

SPATIAL DATA CAPTURE DATEY DATE

The date of capture of the souce spatial data used for updating or undertaking a forest inventory project.

Entity Name:

VGIS PROJECT (cont'd)

Short Name:

PRJ

A fancy name for 'date of photography', though there are indications that there may be sources of forest cover update other than aerial photography, e.g. satellite imagery, GPS coordinate surveys etc.

<< 1998-03-25-16:59 sourced from:416792:465824 >>

SPATIAL DATA SCALE

Y

NUMBER

8,0

The scale of photograpy or satelite image. The '1:' portion is implied and not stored.

<< 1998-03-25-16:59 sourced from:416792:578402 >>

CREATE DATE

N

DATE

<< 1998-03-25-16:59 sourced from:416792:492791 >>

MODIFY DATE

Y

DATE

<< 1998-03-25-16:59 sourced from:416792:492792 >>

CREATE USER ID

N

VARCHAR2

30

<< 1998-03-25-16:59 sourced from:416792:492793 >>

MODIFY USER ID

Y

VARCHAR2

30

<< 1998-03-25-16:59 sourced from:416792:492794 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

- MAY BE a parent of one or more VGIS PROJECTS
- MAY BE created from one and only one VGIS PROJECT
- MAY BE creating one or more PROJECT ASSOCIATIONS
- MAY BE initiating collection of one or more POLYGONS
- MAY BE initiating collection of one or more VERSION AUDIT METADATA
- MAY BE initiating one or more CONTRACTS
- MAY BE located within one and only one VGIS FOREST REGION
- MAY BE subject to one or more ROLE ASSOCIATIONS
- MAY BE undertaking one or more MAP UPDATE ACTIVITIES

* = Relationships in primary unique identifier.

Unique Identifiers:

PRJ1

Primary

Y

PROJECT SKEY

Notes:

<< 1998-03-25-16:59 sourced from:416792:418233 >>

Entity Name: VGIS SAMPLE CODE			Short Name:	VSC
Plural:	VEG SAMPLE CODES			
Init. Volume:	12	Avg. Volume:		
		Max. Volume:	12	Annual Growth Rate:

Description:

This entity is a code table of different Forest Information sample types and their descriptions related to the VGIS application. VGIS sample types in this table can be also referenced in DESIGN_SPECIFICATIONS. This object was created to show the samples types and descriptions that are available on the Spatial layer that is being warehoused. Besides VGIS ample types will hold information on Historical Air and Ground calls.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* SAMPLE TYPE CD		N	VARCHAR2	6
Forest Inventory Historical Air and Ground codes found on the sample tile layer and VGIS sample types.				
Some cell names (formerly symbols) used on the sample tile layer eg. X is for air call and XG is for ground call				
CODE DESCRIPTION		N	VARCHAR2	50
This is a description of what the Historic Sample point code or VGIS sample means.				
EFFECTIVE DATE		Y	DATE	
The date the sample became effective.				
UPDATE TIMESTAMP		Y	TIMESTAMP	
The date and time of the last update.				
EXPIRY DATE		Y	DATE	
The date the Sample is no longer active.				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE identifies sample type for one or more VEG HIST G A CALL SAM POINTS

MAY BE identifies sample type for one or more VEG HIST G A CALL SAM POINTS

* = Relationships in primary unique identifier.

Unique Identifiers:

VSC_PK	Primary	Y
SAMPLE TYPE CD		

Entity Name: VISITATION NOTE			<i>Short Name:</i>	VNOTE
<i>Plural:</i>	VISITATION NOTES			
<i>Init. Volume:</i>	3000	<i>Avg. Volume:</i>	5500	<i>Max. Volume:</i> 5500
			<i>Annual Growth Rate:</i>	5%

Description:

Notes and comments recorded against one of the Sample objects during a measurement visitation.

The temporality of these notes is captured by the relationships to one of Plot Cluster, Measurement Visitation or Point Location Visitations. Thus an individual note is reecorded against only one of these objects.

eg comments recorded during a measurement visit that are recorded on a Vegetation Ground Sample CH 1 Notes.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* NOTE SKEY		N	NUMBER	7
System genereated UID form ORACLE sequence visit_cmt_seq.				
<< 1998-03-26-16:45 sourced from:7003:563572 >>				
NOTE TYPE	NOTE TYPE	N	VARCHAR2	10
A coded that describes the Sample Object or data type that the comments refer to.				
<< 1998-03-26-16:45 sourced from:7003:563589 >>				
SEQ NUM		N	NUMBER	2,0
Relative sequence that the Notes line was recorded on the Field data sheets.				

Data Administration
Entity Definition Report

Entity Name:	VISITATION NOTE (cont'd)	Short Name:	VNOTE
---------------------	--------------------------	--------------------	-------

<< 1998-03-26-16:45 sourced from:7003:563575 >>

NOTE TEXT	Y	VARCHAR2	256
A line of text entered form the Field Sheets.			

<< 1998-03-26-16:45 sourced from:7003:563576 >>

* = Attributes in primary unique identifier.

Relationships:
Each Occurrence Of This Entity:

MAY BE made during one and only one MEASMT VISITATION
MAY BE originated during one and only one POINT LOCATION VISITATION
MAY BE recorded for one and only one PLOT CLUSTER
* = Relationships in primary unique identifier.

Unique Identifiers:

VNOTE1	Primary	Y
NOTE SKEY		

Notes:

<< 1998-03-26-16:45 sourced from:7003:563566 >>

Data Administration
Entity Definition Report

Entity Name: WASTE				Short Name: WASF	
Plural: WASTE FACTORS					
Init. Volume: 100		Avg. Volume: 200		Max. Volume: 500	
				Annual Growth Rate: 1%	
Subtype of: ADJUSTMENT FACTOR					

Description:

A generalized parameter that allows for a reduction in inventory volume which represent associated sound volume that is 'wasted' (i.e. not commercially viable) on account of proximate decay.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* = Attributes in primary unique identifier.				

Notes:

<< 1998-03-26-11:55 sourced from:236464:427157 >>

Data Administration
Entity Definition Report

Entity Name: WOOD ANOMALY BODY				Short Name:	WAB
Plural:	WOOD ANOMALY BODIES				
Init. Volume:	1000	Avg. Volume:	3000	Max. Volume:	10000
				Annual Growth Rate:	

Description:

The occurence of anomalous bodies of stain or decay in a Tree Stem.

This would of been named 'Decay Anomaly' if not that stains, the incipient stages of decay, are treated similarly to decay bodies in the collection of volumetric data.

NB: a single occurence of a body of decay/stain can physically occur in more than one stem,- however, the business would record this as two separate occurences. The logical model is reflective of the business practise.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* ANOMALY SKEY		N	NUMBER	7,0
The system generated identifier of a decay or stain occurence in a stem.				
BUSINESS ID	NUM 4	N	NUMBER	4,0
The business identifier as assigned by the data collection software.				
LENGTH		Y	NUMBER	5,3
The length of the decay/stain body, as measured perpendicularly to the bole.				
WIDTH		Y	CHAR	5
VOLUME		Y	NUMBER	6,4
The estimated volume of the decay/stain anomaly.				
DECAY CROSS SECTION CD		Y	CHAR	
VOLUME EQUATION		Y	VARCHAR2	50
The equation used to estimate the decay/stain anomaly volume.				
NB (This could be made a domain on further analysis).				
WOOD STRENGTH CD		Y	CHAR	
DECAY TEXTURE CD		Y	CHAR	

Entity Name: WOOD ANOMALY BODY (cont'd)		Short Name:	WAB
DECAY SHADE CD	Y	CHAR	
DECAY STAIN COLOUR CD	Y	CHAR	
DEVELOPMENT STAGE CD	Y	CHAR	
ENTRANCE CD	Y	CHAR	
PFS SHADE CD	Y	CHAR	
PFS NUMBER CD	Y	CHAR	
PFS TYPE CD	Y	CHAR	
PFS COLOUR CD	Y	CHAR	
MYCELIUM SHADE CD	Y	CHAR	
MYCELIUM COLOUR CD	Y	CHAR	
MYCELIUM TYPE CD	Y	CHAR	
CAUSAL ORGANISM CD	Y	CHAR	

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE assessed by one or more SECTION END ASSMTS

MUST BE within one and only one STEM

* = Relationships in primary unique identifier.

Unique Identifiers:

WAB1	Primary	Y
ANOMALY SKEY		