

Entity and Attribute Definitions Report

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Parameters

<i>Application:</i>	FOREST HEALTH
<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
<i>Include Table of Contents?</i>	N
<i>Include Index of Entities?</i>	Y

Entity Name: ORG UNIT**Short Name:** COU**Plural:** CORP ORG UNIT**Init. Volume:** 1244**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

Records codes for ministry Organizational Units (offices), such as a 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		N	NUMBER	10
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".				
ORG UNIT CODE		N	VARCHAR2	18
Identifies any office within the ministry				
ORG UNIT NAME		N	VARCHAR2	300
The name or title of a ministry office or section				
LOCATION CODE		N	VARCHAR2	9
Unique identifier for one of the office locations within the Ministry of Forests.				
AREA CODE		N	VARCHAR2	9
The 3 digit numer that identifies each telephone service area in a country.				
TELEPHONE NO		N	VARCHAR2	21
The general office telephone number (excluding the area code) for a Ministry of Forests office.				
ORG LEVEL CODE		N	VARCHAR2	3
Represents the organizational level of the Ministry, and is one of:				
OFFICE NAME CODE		N	VARCHAR2	6
Represents an office within a specific organizational level.				
ROLLUP REGION NO		N	NUMBER	10
Identifier designating the region to which the org unit is rolled into for reporting purposes. Values stored here are for the computers use only, and are not to be used by people as "Ministry Codes".				
ROLLUP REGION CODE		N	VARCHAR2	18
Identifier designating the region to which the org unit is rolled into for reporting purposes.				
ROLLUP DIST NO		N	NUMBER	10
Identifier designating the region to which the org unit is rolled into for reporting purposes.				
ROLLUP DIST CODE		N	VARCHAR2	18
Identifier designating the district to which the org unit is rolled into for reporting purposes.				
EFFECTIVE DATE		N	DATE	
The date the Organizational Unit became effective as a valid Org Unit within the ministry's organizational structure.				
EXPIRY DATE		N	DATE	
The date the Organizational Unit is Obsoleted and is no longer an active Org Unit within the ministrys organizational structure.				
UPDATE TIMESTAMP		N	DATE	
The date and time of the last modification.				

* = Attributes in primary unique identifier.

Relationships:**Each Occurrence Of This Entity:**

MAY BE identifies infestation overview in one or more PEST INFESTATION OVERVIEW POLY

MAY BE identifies infestation in one or more PEST INFESTATION POINT

Entity Name: ORG UNIT (cont'd)

Short Name:

COU

MAY BE identifies infestation in one or more PEST INFESTATION POLY

* = *Relationships in primary unique identifier.*

Entity Name: PEST CAPTURE METHOD CODE**Short Name:** PCM**Plural:** PEST CAPTURE METHOD CODE**Init. Volume:** 12**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

PEST CAPTURE METHOD stores the data capture methods.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* PEST_CAPTURE_METHOD_CODE The code for capture method		N VARCHAR2	3
DESCRIPTION The data capture method must be one of: orthoPhotography, differentialGPS, unknown, nondifferentialGPS, satelliteImagery, rubberSheeting, scanning, photogrammetric, coordinateGeometryWithControl, monoRestitution, tableDigitizing, aerialOverview, detailsketchMap, detailGPSMapping. These values are case sensitive.		N VARCHAR2	120
EFFECTIVE_DATE Effective date		N DATE	
EXPIRY_DATE Expiry Date		N DATE	
UPDATE_TIMESTAMP Update Timestamp		N DATE	

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE used to capture "capture method" one or more PEST CAPTURE SEVERITY XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

FCM Primary Y
 PEST_CAPTURE_METHOD_CODE

Entity Name: PEST CAPTURE SEVERITY XREF**Short Name:** PCSX**Plural:** PEST CAPTURE SEVERITY XREF**Init. Volume:** 302**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

Cross-referencing table between PEST_SEVERITY_CODE and PEST_CAPTURE_METHOD_CODE

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
EFFECTIVE_DATE		N DATE	
Effective Date			
EXPIRY_DATE		N DATE	
Expiry Date			

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

- * MUST BE has pest_capture_method_code one and only one PEST CAPTURE METHOD CODE
- MAY BE identifies infestation and capture method one or more PEST INFESTATION OVERVIEW POLY
- MAY BE identifies infestation and capture method one or more PEST INFESTATION POINT
- MAY BE identifies infestation and capture method one or more PEST INFESTATION POLY
- * MUST BE has "pest_severity_code" identify by one and only one PEST SEVERITY CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

PCSX Primary Y

MUST BE has pest_capture_method_code one and only one PEST CAPTURE METHOD CODE

MUST BE has "pest_severity_code" identify by one and only one PEST SEVERITY CODE

Entity Name: PEST DESCRIPTION**Short Name:** PD**Plural:** PEST DESCRIPTION**Init. Volume:** 114**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

PEST_DESCRIPTION contains description about a particular pest.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
COMMON_NAME		Y	VARCHAR2	255
The common name of the pest.				
DAMAGE		Y	VARCHAR2	4000
The description of the type of damage caused by this particular pest.				
RANGE		Y	VARCHAR2	4000
The pest's characteristics and the locations of the pest within the province.				
SCIENTIFIC_NAME		Y	VARCHAR2	255
The scientific name for the disease.				
SIMILAR_DAMAGE		Y	VARCHAR2	4000
Similar damage that may be mistakenly associated with this pest.				
SYMPTOMS		Y	VARCHAR2	4000
The description of the pest and/or damage symptoms.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

* MUST BE has pest description identify by one and only one PEST SPECIES CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

HDP Primary Y

MUST BE has pest description identify by one and only one PEST SPECIES CODE

Entity Name: PEST HAZARD METHOD CODE**Short Name:** PHM**Plural:** PEST HAZARD METHOD CODE**Init. Volume:** 4**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

PEST_HAZARD_METHOD store the possible methods (models) by which the hazard was assessed. It is a lookup table.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PEST_HAZARD_METHOD_CODE		N	VARCHAR2	3
The method (model) by which the hazard was assessed.				
DESCRIPTION		N	VARCHAR2	120
The description of the respective Hazard Method				
EFFECTIVE_DATE		N	DATE	
Effective Date				
EXPIRY_DATE		N	DATE	
Expiry Date				
UPDATE_TIMESTAMP		N	DATE	
Update Timestamp				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE used to capture hazard method one or more PEST HAZARD POLY

* = Relationships in primary unique identifier.

Unique Identifiers:

FHM Primary Y

PEST_HAZARD_METHOD_CODE

Entity Name: PEST HAZARD POLY**Short Name:** PHP1**Plural:** PEST HAZARD POLY**Init. Volume:** 1000**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

PEST_HAZARD_POLY represents a biohazard as an area (polygon). Feature type : polygon multipart.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* HAZARD_POLYGON_NUMBER		Y	NUMBER	4
The unique polygon number.				
CREATION_YEAR		Y	NUMBER	4
The date when the biohazard data was created.				
AREA_HA		Y	NUMBER	15,2
The area of the biohazard polygon in Hectares.				
GEOMETRY		Y	NUMBER	38
Geometry				
OBJECTID		Y	NUMBER	38
A required attribute of feature classes and object classes in a GeoDatabase.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE has hazard method identify by one and only one PEST HAZARD METHOD CODE

MUST BE has rating identify by one and only one PEST HAZARD RATING CODE

MUST BE has pest identify by one and only one PEST SPECIES CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

FHP1 Primary Y

HAZARD_POLYGON_NUMBER

Entity Name: PEST HAZARD RATING CODE **Short Name:** PHR

Plural: PEST HAZARD RATING CODE

Init. Volume: 4 **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:** 25%

Description:

PEST_HAZARD_RATING_CODE contains biohazard rating values assigned to a biohazard area (polygon). It is a lookup table.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PEST_HAZARD_RATING_CODE		N	VARCHAR2	1
A (H)igh, (M)edium, (L)ow or (N)ill rating for the hazard area (polygon).				
DESCRIPTION		N	VARCHAR2	120
The description of the respective acronym for each hazard rating (H)igh, (M)edium, (L)ow or (N)ill for the hazard area (polygon).				
EFFECTIVE_DATE		N	DATE	
Effective Date				
EXPIRY_DATE		N	DATE	
Expiry date				
UPDATE_TIMESTAMP		N	DATE	
Update TimeStamp				

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE used to capture hazard rating one or more PEST HAZARD POLY

* = Relationships in primary unique identifier.

Unique Identifiers:

FHR Primary Y

PEST_HAZARD_RATING_CODE

Entity Name: PEST IMAGE**Short Name:** PI**Plural:** PEST IMAGE**Init. Volume:** 42 **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:** 25%**Description:**

PEST_IMAGE contains graphical information (images) about each pest.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
DESCRIPTION		Y	VARCHAR2	255
The description of the image.				
FILENAME		Y	VARCHAR2	255
The name of the image file.				
* IMAGE_ID		N	NUMBER	5
The unique ID of the image.				
LOCATION		Y	VARCHAR2	255
The location of the image (URL).				
SOURCE		Y	VARCHAR2	255
The source /author.				
TITLE		Y	VARCHAR2	255
The title for the image.				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE receives pest code one and only one PEST SPECIES CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

HDI Primary Y

IMAGE_ID

Entity Name: PEST INFESTATION OVERVIEW POLY**Short Name:** IOP**Plural:** PEST INFESTATION OVERVIEW POLY**Init. Volume:** 58993 **Avg. Volume:** **Max. Volume:** **Annual Growth Rate:** 25%**Description:**

PEST_INFESTATION_OVERVIEW_POLY is a generalized version of the PEST_INFESTATION_POLY. The main purpose of the generalization is to be able to display the site infestation as an overview at higher scales. Feature type : polygon multipart.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* POLYGON NUMBER The unique polygon number		N NUMBER	10
CAPTURE YEAR The year when the data was captured.		Y NUMBER	4
AREA HA The polygon's area, in hectares		Y NUMBER	23,2
GEOMETRY Geometry		Y NUMBER	38
OBJECTID A required attribute of feature classes and object classes in a GeoDatabase.		Y NUMBER	38

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE shows infestation overview for one and only one ORG UNIT

MUST BE has severity and capture method identified by one and only one PEST CAPTURE SEVERITY XREF

MAY BE has pest identify one and only one PEST SPECIES CODE

MAY BE has host species one and only one VEG TREE SPECIES CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

IOP Primary Y

POLYGON NUMBER

Entity Name: PEST INFESTATION POINT*Short Name:*

PIO

Plural: PEST INFESTATION POINT*Init. Volume:* 35545*Avg. Volume:**Max. Volume:**Annual Growth Rate:* 25%**Description:**

PEST_INFESTATION_POINT is the Provincial Spots Table. A Spot represents a site infestation as point data. Feature type : point.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* SPOT_NUMBER The unique spot number.		N NUMBER	38
CAPTURE_YEAR The year when the data was captured.		N NUMBER	4
NUM_TREES The number of trees represented by the spot infestation.		Y NUMBER	11
AREA_HA The area of the spot, assigned based upon num_trees.		Y NUMBER	7,2
GEOMETRY Geometry		Y NUMBER	38
OBJECTID A required attribute of feature classes and object classes in a GeoDatabase.		Y NUMBER	38

* = *Attributes in primary unique identifier.*

Relationships:Each Occurrence Of This Entity:

MUST BE shows point infestation for one and only one ORG UNIT

MUST BE has severity and capture method identified by one and only one PEST CAPTURE SEVERITY XREF

MUST BE has pest identify by one and only one PEST SPECIES CODE

MAY BE has host species one and only one VEG TREE SPECIES CODE

* = *Relationships in primary unique identifier.*

Unique Identifiers:

HS *Primary Y*

SPOT_NUMBER

Entity Name: PEST INFESTATION POLY**Short Name:** PIP**Plural:** PEST INFESTATION POLY**Init. Volume:** 5024**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

PEST_INFESTATION_POLY represents a site infestation as an area (polygon). Feature type : polygon multipart.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* POLYGON_NUMBER The unique polygon number.		N NUMBER	10
CAPTURE_YEAR The year when the data was captured.		N NUMBER	4
AREA_HA The polygon's area in Hectares.		Y NUMBER	23,2
GEOMETRY Geometry		Y NUMBER	38
OBJECTID A required attribute of feature classes and object classes in a GeoDatabase.		Y NUMBER	38

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MUST BE shows infestation polygon for one and only one ORG UNIT

MUST BE has severity and capture method identified by one and only one PEST CAPTURE SEVERITY XREF

MUST BE has pest identify by one and only one PEST SPECIES CODE

MAY BE has host species one and only one VEG TREE SPECIES CODE

* = Relationships in primary unique identifier.

Unique Identifiers:

HPP Primary Y

POLYGON_NUMBER

Entity Name: PEST SEVERITY CODE**Short Name:** PSC**Plural:** PEST SEVERITY CODE**Init. Volume:** 32**Avg. Volume:****Max. Volume:****Annual Growth Rate:** 25%**Description:**

A code describing the severity of a pests (insect or disease) attack on the stand.

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt</u>	<u>Format</u>	<u>Length</u>
* PEST_SEVERITY_CODE		N	VARCHAR2	3
The acronym used to identify severity name. i.e. (L)ight, (M)oderate, (S)evere.				
DESCRIPTION		N	VARCHAR2	120
The complete name of the severity factor. i.e. Light, Moderate, Severe.				
EFFECTIVE_DATE		N	DATE	
Effective date				
EXPIRY_DATE		N	DATE	
Expiry date				
UPDATE_TIMESTAMP		N	DATE	
Update date				

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE used to identify "pest severity" one or more PEST CAPTURE SEVERITY XREF

* = Relationships in primary unique identifier.

Unique Identifiers:

FS	<i>Primary</i>	Y
PEST_SEVERITY_CODE		

Entity Name: PEST SPECIES CODE *Short Name:* PSE

Plural: PEST SPECIES CODE

Init. Volume: 120 *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:* 25%

Description:

PEST_SPECIES_CODE contains the code and description of a pest

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* PEST_SPECIES_CODE		N VARCHAR2	3
The code used to identify the pest for which a specified silviculture treatment is required (eg. insects, root disease, dwarf mistletoe, etc).			
DESCRIPTION		N VARCHAR2	250
Description of the pest			
EFFECTIVE_DATE		N DATE	
Effective date			
EXPIRY_DATE		N DATE	
Expiry date			
UPDATE_DATE		N DATE	
Update date			

* = Attributes in primary unique identifier.

Relationships:

Each Occurrence Of This Entity:

MAY BE used to capture pest one and only one PEST DESCRIPTION

MAY BE used to capture pest one or more PEST HAZARD POLY

MAY BE supplies pest code one or more PEST IMAGE

MAY BE used to capture one or more PEST INFESTATION OVERVIEW POLY

MAY BE used to capture pest one or more PEST INFESTATION POINT

MAY BE used to capture pest one or more PEST INFESTATION POLY

* = Relationships in primary unique identifier.

Unique Identifiers:

PSC *Primary* Y

PEST_SPECIES_CODE

Entity Name: VEG TREE SPECIES CODE**Short Name:** TSC**Plural:** VEG TREE SPECIES CODE**Init. Volume:** 100**Avg. Volume:****Max. Volume:** 100**Annual Growth Rate:** 0%**Description:**

The secondary tree species of Crown timber that was cut, damaged, destroyed or removed without authority

Attributes:

<u>Name</u>	<u>Domain</u>	<u>Opt Format</u>	<u>Length</u>
* TREE SPECIES CODE		N VARCHAR2	3
The secondary tree species of Crown timber that was cut, damaged, destroyed or removed without authority.			
DESCRIPTION		N VARCHAR2	120
The full description of the code value.			
EFFECTIVE DATE		N DATE	
The date the value is available for use.			
EXPIRY DATE		N DATE	
The date the value is no longer available for use.			
UPDATE TIMESTAMP		N DATE	
The date and time the value was last modified.			

* = Attributes in primary unique identifier.

Relationships:Each Occurrence Of This Entity:

MAY BE is host species for one or more PEST INFESTATION OVERVIEW POLY

MAY BE is host species for one or more PEST INFESTATION POINT

MAY BE is host species for one or more PEST INFESTATION POLY

* = Relationships in primary unique identifier.

Unique Identifiers:

TSC Primary Y

TREE SPECIES CODE

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