

Land Information Ontario Data Description

Forest Resources Inventory Status

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LIO Class Catalogue

Forest Resources Inventory Status

Class Short Name: FORESTAT

Version Number: 1

Class Description:

This layer provides the general current production status of all Forest Resources Inventory (FRI) units in the province of Ontario. It also indicates the availability of digital inventories from the Land Information Ontario Warehouse (LIOW) as structured (Forest Cover data class) and packaged (zip file) products through the Land Information Data Subscription (LIDS) service. ----- It is important to note that forest inventories are differentiated by the following two versions or products: 1) Forest Resources Inventory (FRI): This is the initial or first new data capture version of the forest resource inventory for a unit that is delivered to OMNR Districts and Sustainable Forest Licence (SFL) holders. In most cases, it involves the complete re-inventory of the forested land within a unit. It provides a basis for planning inventories described below. --- 2) Planning Composite Inventory (PCI): Once delivered, the FRI (1) is updated by OMNR Districts and Forest Companies for Forest Management Planning purposes. Spatial and attribute data are updated on an as-required or scheduled basis to reflect changes to the forest landscape (e.g. natural disturbances, harvesting and regeneration). The planning inventory contains additional attributes and information that conform to Forest Information Manual (FIM) standards to support the forest management planning process. ----- Note: The majority of FRI unit boundaries represented in this layer reflects, and are kept current to the latest version of the Forest Management Unit boundary layer. ----- For additional information, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.

Abstract Class Name: SPMNTPOLY

Abstract Class

Description:

Spatial Multi-Non-Tessellating-Polygon: An object is represented by ONE or MORE polygons. Polygons may NOT overlap. HOLES within and GAPS between polygons ARE allowed. Example: the St. Lawrence Islands National Park, where the Park itself is made up of many islands.

Tables in LIO Class:

Forest Resources Inventory Status

FRI_STATUS_FT

This layer provides a general current production status of all of the Forest Resource Inventory (FRI) units in the province of Ontario. It also indicates the availability of digital inventories from the Land Information Ontario Warehouse (LIOW) as structured (Forest Cover) and packaged (zip file) products. ----- It is important to note that the FRI is composed of two different versions or products: 1) Forest Resource Inventory (FRI) (v 1): This is the initial or first version of the forest resource inventory for a unit produced by the Inventory Monitoring and Assessment, Forest Resources Inventory Unit that is delivered to OMNR Districts and Sustainable Forest Licence (SFL) holders. Published Land Information Ontario Warehouse (LIOW) data products available through the Land Information Data Subscription System (LIDS) include: - FRI data loaded into the provincial Forest Cover data class (for units produced 2004 onward). - FRI Packaged Product for the unit (2D version) - FRI Packaged Product for the unit (3D version) This version of the FRI provides the basis for 2), described below. --- 2) Planning Inventory: Once delivered, the FRI (1) is kept updated and current by Districts and Forest Companies for Forest Management Planning purposes. Spatial and attribute data are updated on an as-required or scheduled basis to reflect changes to the forest landscape (e.g. natural disturbances, harvesting and regeneration). The planning inventory contains additional attributes and information that conform to Forest Information Manual (FIM) standards to support the forest management planning process. ----- Note: The majority of FRI unit boundaries represented in this layer reflects, and are kept current to the latest version of the Forest Management Unit boundary layer.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER(13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
FRI_UNIT_TYPE	VARCHAR2(25)	Yes	UNIT_TYPE	Forest Management Unit, National Park, Provincial Park, Island, To Be Defined

The general type of feature represented by the Forest Resource Inventory (FRI) Unit. Permissible values include: - Forest Management Unit - Provincial Park - National Park - Island - To Be Defined Note: A value of "To Be Defined" indicates that a Forest Resource Inventory exists for the unit, but is waiting to be officially classified into one of the other unit categories e.g. Forest Management Unit.

FRI_UNIT_NAME	VARCHAR2(40)	Yes	UNIT_NAME	
The name that the Forest Resource Inventory Unit is known by. It usually shares the same name as the Forest Management Unit (FMU) that the Forest Resource Inventory is associated to.				
FRI_UNIT_IDENT	VARCHAR2(5)	No	UNIT_IDENT	

Where applicable, identifies the Forest Management Unit (FMU) that the Forest Resource Inventory is associated to. Also known as the FMU Number, an alphanumeric identifier uniquely assigned to every official Forest Management Unit in Ontario.

FRI_STATUS	VARCHAR2(25)	Yes	FRI_STATUS	Planning, Imagery Acquisition, Fieldwork, Water Classification, Photo Interpretation, Automation and QA, Complete, Archived, Archived (Pre-FIMv2), None
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The current status of the Forest Resources Inventory (FRI). The FRI status is described sequentially as follows: ----- Planning: (Stage 0) The FRI is in a planning or pre-production stage. --- Imagery Acquisition: (Stage 1) Imagery is being, or has been acquired for the upcoming FRI area of interest. --- Fieldwork: (Stage 2) Fieldwork and calibration plots are underway for the FRI. --- Water Classification: (Stage 3) Waterbody analysis and classification from the latest imagery is underway through automated imagery analysis to reflect the current state of waterbodies (lakes, ponds and rivers) that will provide a land base for the FRI. --- Photo Interpretation: (Stage 4) The digital classification of forest types and ecosites is underway. --- Automation and QA: (Stage 5) The FRI is quality assured to ensure that the data conforms to Forest Information Manual (FIM) specifications used at the time of the inventory. --- Complete: (Stage 6) The digital FRI is complete and is waiting for delivery, or has been delivered to the OMNR District/Forest Company. --- Archived: (Stage 7) Includes... a) Archiving the unit in the FRI database. b) loading the FRI data into the Land Information Ontario Warehouse (LIOW) Forest Cover data class. c) making structured 2D/3D versions of the FRI available via LIDS as a packaged product. --- Archived (Pre-FIMv2): The only FRI available has been archived in the FRI database before 2004; however the data is structured to pre-Forest Information Manual (FIM) version 2 standards. --- None: A current status is unavailable or is not applicable for the unit. ----- Default: "None"

FRI_STATUS_DATE	DATE	No	STAT_DATE
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The effective date of the current Forest Resources Inventory (FRI) Status.

FRI_STATUS_COMMENTS	VARCHAR2(254)	No	STAT_COMM
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A short description providing additional information about the current status of the Forest Resources Inventory (FRI).

IMAGERY	VARCHAR2(80)	No	IMAGERY
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Describes the type(s) of imagery used to define the original Forest Resources Inventory (FRI), along with year of capture if available.

FRI_METADATA_URL	VARCHAR2(254)	No	METADATA
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The internet web page address of the official metadata record for the Forest Resources Inventory Unit (FRI), created in the Ontario Land Information Directory (OLID) database.

PP_FRI_FIMV1_AVAIL	VARCHAR2(20)	Yes	FIMV1	Complete Coverage, Partial Coverage, None
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Indicates the availability and extent of an archived Forest Information Manual (version 1) digital Forest Resources Inventory (FRI) packaged product for the unit. FMUs have been amalgamated over the years and the packaged product availability reflects the geographic extent coverage of the former archived FRI unit within the geographic extent of the current unit. ----- The availability and extent for an archived FIMv1 FRI is listed as follows: Complete Coverage: Packaged products for the archived inventories are available for the full geographic extent of the current FRI Unit. --- Partial Coverage: Packaged products for the archived FRI are only available for a small geographic area within the current FRI Unit. --- None: There are currently no packaged products available for the archived OBM-tiled FRI within the geographic extent of the current FRI Unit. ----- Default: "None" ----- When available, the name of the packaged product files can be found in the FRI Packaged Product Catalogue table. ----- For additional information, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.

PP_FRI_2D3D_AVAIL	VARCHAR2(10)	Yes	AVAIL_2D3D	2D only, 3D only, 2D and 3D, None
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PP_FRI_TILED_AVAIL	VARCHAR2(20)	Yes	TILED	Complete Coverage, Partial Coverage, None
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Indicates the availability and extent of a pre-Forest Information Manual archived digital Forest Resources Inventory (FRI) tiled to individual Ontario Base Map (OBM) workspaces for the extent of the Forest Management Unit (FMU) that was defined at the time. FMUs have been amalgamated over the years and the packaged product availability reflects the geographic extent coverage of the former archived FRI unit within the geographic extent of the current unit. ----- The availability and extent for an archived OBM-tiled FRI is listed as follows: Complete Coverage: Packaged products for the archived inventories are available for the full geographic extent of the current FRI Unit. --- Partial Coverage: Packaged products for the archived FRI are only available for a small geographic area within the current FRI Unit. --- None: There are currently no packaged products available for the archived OBM-tiled FRI within the geographic extent of the current FRI Unit. ----- Default: "None" ----- When available, the name of the packaged product files can be found in the FRI Packaged Product Catalogue table. ----- For additional information, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.

PP_FRI_LEGACY_AVAIL	VARCHAR2(20)	Yes	LEGACY	Complete Coverage, Partial Coverage, None
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Indicates the availability and extent of a Legacy (pre-digital) Forest Resources Inventory (FRI) within the geographic extent of the current unit. Where available, Legacy FRI manuscripts (hardcopy maps) are scanned to a PDF or image format (jpeg, bmp) and prepared as a packaged product that is available from the Ontario Land Information Warehouse through the Land Information Data Subscription (LIDS) service. ----- The availability and extent for a Legacy FRI is listed as follows: Complete Coverage: Legacy FRI packaged products are available for the

full geographic extent of the current FRI Unit. --- Partial Coverage: Legacy FRI packaged products are available for a small geographic area within the current FRI Unit. --- None: There are currently no Legacy FRI packaged products available within the extent of the current FRI Unit. ----- Default: "None" ----- When available, the name of the packaged product files can be found in the FRI Packaged Product Catalogue table. ----- Note: Given their rarity, the availability of complete or partial Legacy FRI packaged products is very limited. ----- For additional information, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.

PP_PI_INV_TYPE_AVAIL	VARCHAR2(40)	Yes	PI_INV_TYP	Planning Composite Inventory (initial), Planning Composite Inventory (final), Base Model Inventory, None
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The availability and type of Planning Inventory that is available for download as a packaged product from the Land Information Ontario Warehouse through the Land Information Ontario Data Subscription (LIDS) service. The Planning Inventory Type availability are as follows: --- Planning Composite Inventory (initial) - (PCI) is the pre-planning inventory initial draft submitted 2 years before the forest management plan, and used for planning purposes. Does not require silviculture fields. --- Planning Composite Inventory (final) - (PCIF) is the final submission at the forest management planning stage which includes all silvicultural fields --- Base Model Inventory - (BMI) includes forecast depletions (generally two years worth), as well as all silvicultural fields. In terms of planning inventory progression, the BMI version is usually more updated than the initial PCI, and is used to create the final version of the PCI. --- None: A Planning Inventory packaged product is not available for the unit. ----- Default: "None" ----- Where available, the name of the packaged product file can be found in the FRI Packaged Product Catalogue table. ----- Note: Only one version of the most current Planning Inventory will be available as a packaged product through LIDS. ----- Rule: When the value in this field is other than "None", the Update Year and Import Date fields must be populated.

PLAN_INV_UPD_YR	NUMBER(4,0)	No	INV_UPD_YR
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The start year of the 10-year planning period (e.g. 2012) that the forest stand age field has been updated/grown to in the forest resource inventory.

PLAN_INV_IMP_DT	VARCHAR2(10)	No	INV_IMP_DT
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ADDITIONAL_COMMENTS	VARCHAR2(254)	No	ADD_COMM
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Additional comments about the Forest Resources Inventory Unit.

GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPD_DT
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Date/time the geometry was created or last modified in the source database.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

FRI_PACKAGED_PRODUCT_CATALOGUE

This table catalogues the packaged products that are available for a specific Forest Resource Inventory (FRI) Unit. It identifies the type, version and vintage of inventory product available that interested parties may order from the Land Information Data Subscription (LIDS) service.
 ----- For additional information, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.

Column Name	Column Type	Mandatory	Short Name	Valid Values
FRI_STATUS_ID	NUMBER(13,0)	Yes	STATUS_ID	
The Fmf Object Id of the parent Forest Resources Inventory Status unit that the packaged product is associated to. --- System-generated object identifier, unique at the application level.				
PACKAGED_PRODUCT_DISPLAY_NAME	VARCHAR2(80)	Yes	PP_DISPLAY	
The name of the Packaged Product as displayed in the Land Information Data Subscription (LIDS) service suite of available Packaged Products.				
FOREST_INV_PP_TYPE	VARCHAR2(10)	Yes	PP_TYPE	FIMv1, FIMv2(2D), FIMv2(3D), LEGACY, OBM, PLANNING
Identifies the type or version of the Forest Resource Inventory that is included in the packaged product. ----- For additional information about the Forest Inventory types, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.				
HISTORIC_UNIT_NAME	VARCHAR2(40)	No	HIST_NAME	
The documented name of the forest inventory unit that was in effect or known as at the time the inventory product was originally created (see Vintage). A succession of Forest Management Unit (FMU) boundary changes over the years resulted in the amalgamation of several units into a new FMU with a larger geographical extent. The extent of the historic unit in the packaged product will be nested within the boundaries of the currently associated unit.				
INVENTORY_VINTAGE	VARCHAR2(15)	Yes	VINTAGE	
Identified the vintage of the inventory contained in this packaged product. Examples: - 1985 - 2007 - 1950-55 - Pre-1963				
PACKAGED_PRODUCT_FILE_NAME	VARCHAR2(100)	No	PP_FILE	
Identifies the file name of the packaged product. ----- For additional information about the file naming convention used for these products, refer to the NRVIS User Guide for this layer that is available for download on the Land Information Ontario (LIO) website Data in the Warehouse page.				
PACKAGED_PRODUCT_DESCR	VARCHAR2(254)	No	PP_DESCR	
A short description about the inventory contained in the packaged product.				
UPLOAD_DATE	DATE	Yes	UPLOAD_DT	
The known calendar date that the packaged product was uploaded to the Ontario Land Information Warehouse and made available through the Land Information Data Subscription (LIDS) service.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	

Date/time the record was created or last modified in the source database.
