



Land Information Ontario

NRVIS/OLIW Data Management Model For **Agriculture Operation Inventory (v.1)**

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Additional Information

For more information about this document, please contact Land Information Ontario at (705) 755-1878 or lio@ontario.ca

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Preface

For most of the Ontario Government's geospatial information holdings, successful data management is achieved through the process of documenting data standards. This document summarizes the basic data management requirements for specific Land Information Ontario (LIO) Concrete Class(es).

Several corporate applications are used by LIO to manage, disseminate, protect and make accessible where available, all of the geospatial holdings that reside within the Ontario Land Information Warehouse (OLIW). The major applications are:

- Data Standards Repository (DSR)
- Land Information Data Subscription System (LIDS)
- Land Information Publishing System (LIPS)
- Land Information Security Administration System (LISA)
- LIO Internet Mapping Framework (IMF - includes Web Mapping and Web Feature Services)
- Natural Resources Values Information System (NRVIS) Administration
- Ontario Land Information Directory (OLID)

If the information that you are looking for cannot be found in this document, LIO has a Support Team that can answer additional questions about a Data Class. It follows a **three-tiered support model** to assist clients as follows:

When a user/client has a question about the dataset, they will initially contact...

TIER 1

Information Access Helpline

(705) 755-1878 email: lio@ontario.ca

If the Helpline staff cannot provide assistance, where applicable, the request will in be passed on to...

TIER 2

***NRVIS Support Helpline**

Contacts provided by Tier-1

If NRVIS Support staff cannot provide assistance, they will consult with the appropriate Tier-3 contact Info, and then get back to the client.

TIER 3

Tier-3 support is directed to the appropriate contact based on the nature of the client's enquiry and category:

Application focus – related to programming, application functionality.

Data focus – related to the Information Owner's data, standards and guidelines where a business area expert needs to be consulted.

Tier-3 contacts are consulted or provided by Tier-1 or Tier 2

** Please note that Tier-2 support is intended for datasets that are maintained by the NRVIS Application. OLIW-only dataset enquiries will be fielded directly to the Information Owner (IO) if assistance cannot be provided by Tier-1 support staff.*

Data Analysis and Enhancement Projects are supported by staff with the Ontario Land and Resources Cluster (LRC), GIS Business Solutions Section (GIS-BSS), GIS Data Services (GDS)

Caveat: The information within this document is relevant to the date it was produced, and may become outdated over time. The Information Owner for this Concrete Class is responsible for updating the OLID metadata record for their information holdings. The reader is encouraged to review the corresponding OLID record to obtain up-to-date information about Concrete Classes. The OLID Metadata record search engine, along with additional information about OLIW itself can be found by visiting their [website](#).

Background and Context

A primer about the data class that describes what the information looks like, along with an introduction to the business area (Information Owner) that is responsible with its upkeep. Web links to additional supporting material are provided where applicable.

Information Owner

An Information Owner is responsible for defining the structure, access and upkeep of their business areas' information assets. They are also responsible in communicating with their stakeholder community and to evaluate their business needs.

No Organization Currently Defined

Status: None

Concrete Class Details

Agriculture Operation Inventory v.1 (AGOI)

The Agriculture Operation Inventory (AgOI) is a polygon layer that is used to delineate rural boundaries, classifies crops and farm practices. Mapping these systems provides an overview of the use of agricultural land.

Modeling Template: Simple

Target Databases: NRVIS (v.3.4.x) and OLIV (2010)

Sensitivity Classification and Rationale: Non-Sensitive

The AGOI (as a subset) is available to anyone and may be used unrestricted via Web Mapping Services (WMS). Viewing of Nutrient Management records from the AGRILAND_NUTRIENT_MANAGEMENT table is not available to the general public, and is only available to the Ontario Ministry of Agriculture, Food, and Rural Affairs (OMAFRA) and the Ministry of the Environment (MOE).

Sensitivity Governance: *Secure access to Nutrient Management records is available to program staff from Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and the Ministry of the Environment (MOE).*

Associated Geographic Unit Types

Agriculture Operation Inventory does not have Geographic Unit Types (GUTS) associated with it.

Roles and Responsibilities

The following lists crucial roles and responsibilities that are associated with this data class. These roles are described in further detail in [Appendix-1](#) of this document.

Information Owner - Executive

Branch Director or equivalent

Information Owner - Program

Manager

Ministry of Agriculture, Food and Rural Affairs (OMAFRA)

Main Business Area Contact

Senior Geographic Information Specialist *Primary contact for project. GIS expertise; acted as liaison with business area, NRVIS Administrator, Metadata (OLID) record maintenance for Base Data.*

Ministry of Agriculture, Food and Rural Affairs (OMAFRA), Food Safety and Environment Division,
Environmental Policy and Programs Branch, Agriculture Land Use

Business Area Expert

Senior Geographic Information Specialist *Primary contact for project. GIS expertise; acted as liaison with business area, NRVIS Administrator, Metadata (OLID) record maintenance for Base Data.*

Ministry of Agriculture, Food and Rural Affairs (OMAFRA)

Business Area Use

Intended Use and Purpose: As part of an overall strategy to improve business processes related to agriculture, this data class supports the recording of and displaying agriculture operations and will be used as a mapping layer in the Agriculture Information Atlas.

Agricultural Stakeholders will be able to obtain the information themselves from the site rather than submitting individual requests to specialists and administrative staff, thus reducing the time it takes to prepare submissions for approvals, certification and licensing.

Business Drivers:

Use Caveats:

Geospatial Details

This section describes how the data will be spatially represented.

Default geospatial reference details for all NRVIS/LIOW concrete classes:

Grid or Coordinate System: *Geographic (Lat., Long.)*

Map Projection: *Not Applicable*

Horizontal Datum: *NAD83*

Vertical Datum (z-scale): *Not Applicable*

Vertical Positional Accuracy: *Not Applicable*

NRVIS/OLIW Abstract Class: SPSNTPOLY

Spatial Single-Non-Tessellating-Polygon: An object is represented by ONE and ONLY ONE polygon forms a single object. Polygons MAY NOT overlap. HOLES within and GAPS between polygons are allowed. Examples of this are sub classes that may fall under this class are lakes, wetlands, ANSI's, etc.

Geographic Extent: Province

Geographic Completeness: Southern Ontario

Average Horizontal Positional Accuracy: Within 10 metres

Data Life-Cycle and Maintenance

This section provides details about the data's life-cycle

Collect

Responsibility of: Independent Tile Contractors, Farmers, Municipalities, Conservation Authorities, Provincial Ministry Staff, Federal Ministry Staff

Anyone trained in GIS data collection

Agency Location(s): Ontario wide

Frequency: Continuously

Procedures/Standards: Used by Contractors for tile drainage and by Farmers for regulatory reference and submissions via the Agriculture Information Atlas

Tools/Forms/Applications: Agriculture Information Atlas

Load

Responsibility of: Ministry of Agriculture, Food and Rural Affairs (AGF), Food Safety and Environment Division, Environmental Policy and Programs Branch Agriculture Land Use

Section Administrative Assistant

Agency Location(s): Guelph

Frequency: Continuously

Procedures/Standards: NRVIS data standards will be used for entering data

Tools/Forms/Applications: OMAFRA Database

Publish

Responsibility of: NRVIS

Agency Location(s): Peterborough

Frequency: Variable

Procedures/Standards: it is anticipated that NRVIS will publish the data to the warehouse on a nightly basis once LIPS is functioning

Tools/Forms/Applications: Land Information Publication System (LIPS)

Archive

Responsibility of: OMAFRA – Resource Information and Business Services

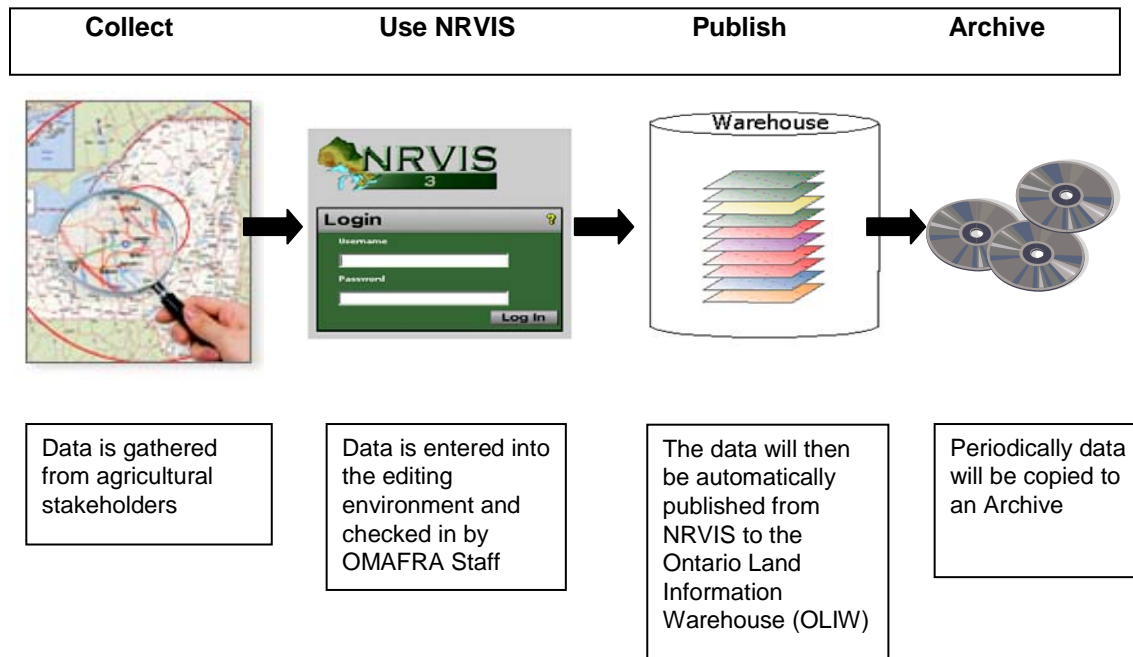
Agency Location(s): GUELPH

Frequency: Annually

Procedures/Standards: Full OLID download and record to media

Tools/Forms/Applications: Not Applicable

Data Life-Cycle Diagram



Data Access and Services

This section provides details about the access management to the information stored in this data class. Some of the information documented here governing the scope of access is summarized in the Information Access form that is officially filed with LIO's Information Access Services Section.

Due to the nature and origin of the data stored in Concrete Classes, there are often special rules and considerations that control how the data is to be accessed, used and maintained.

Data Access Use Restrictions/Constraints: Subset of data is available for unrestricted use is made available via Web Mapping Services (WMS); License agreement is required for any other data holdings. Note that distribution restrictions are placed on Agriculture Land Nutrient Management Submission data being available only to OMAFRA staff.

Data Access Maintenance Restrictions/Constraints: Editing is restricted to OMAFRA staff

Web Mapping Services (WMS): Yes – AGOI (as a subset) is available as an unrestricted WMS and is used by the OMAFRA Agriculture Information Atlas.

Is a NRVIS View available of the data? (For LIOW-only Data Classes): No

NRVIS Administration Details:

Field Data Capture Form: No

Is NDD available for this Data Class?: Yes

Personal Information Stored: No

Area of Responsibility: Other (OMAFRA Staff only have access to the full data set)

Default NRVIS Access Privileges:

- NRVIS Browse
- OMAFRA Check-In

Physical Model

The implemented database physical data model diagram and data dictionary for this data class can be found in the Standard NRVIS Interchange Format (SNIF) report published to the Land Information Ontario [Data in the Warehouse](#) web page.

As with any data class, model modifications may have taken place post-implementation and after the authoring date of this document. For example, tables, relationships, attributes and/or lookup table/domain values and Geographic Unit Types (GUTS) may be added, redefined or removed. The published SNIF reports found on the LIO website will always reflect the latest implemented version of the data class.

Appendix 1: Data Class Role Descriptions

Confirmed roles and associated responsibilities are crucial for the successful implementation and continued maintenance of all structured geospatial information holdings. The following is a listing of primary role types and context.

Role	Responsibility	Organization / Position
Information Owner - Executive	Information Owner at the executive level who: <ul style="list-style-type: none"> - Sets overall strategy and high level policy for Branch business areas programs with regards to the information holding. - Recognizes information holding as a Branch asset and responsibility by signing the Data Access and Distribution (DADA) form filed with Information Access. 	Varies Branch Director or equivalent
Information Owner - Program	Information Owner at the program level who: <ul style="list-style-type: none"> - Approves and promotes standards, guidelines and procedures for their information holding including its continued maintenance. - Approves deliverables associated the above, including those associated with data modeling projects and enhancements. - Ensures that the appropriate business area experts and resources are available to define and implement the abovementioned deliverables. - Ensures the continued maintenance, data safeguarding (where required) for the information holding. - Ensures that their information holding's user and stakeholder community are kept informed engaged. 	Varies Business area's Section Manager or equivalent
Main Business Area Contact	Main business area lead at the operational level who: <ul style="list-style-type: none"> - Is contacted for modeling and enhancement decisions - Is very familiar with the information holding and its maintenance standards. - If contacted by LIO and NRVIS Support, can answer technical questions about the information holding or... - Direct these questions to or obtain answers from their appropriate business area expert. 	Varies Usually one of the Business Area Experts who is coordinating work and standards associated with the Information holding.
Business Area Expert	Intimate with the information holding at the operational level who is responsible for <u>one</u> or <u>more</u> of the following: <ul style="list-style-type: none"> - Defining the business area's information holding requirements, standards, guidelines and procedures. - Create/update the information holding's official metadata record (OLID). - Is intimate with the information holding's standards and maintenance. - Making or overseeing updates to the information holding and preparing the data for loading into the OLIW database via the NRVIS application or SNIF packages. - For NRVIS data classes: is the NRVIS Administrator who controls the level of access (browse, edits, database check-in) privileges to the information holding by the NRVIS user community. - Answering questions and providing support about their data, standards and guidelines. 	Varies Can be from the same or a different business area for the information holding