



Land Information Ontario

NRVIS/OLIW Data Management Model For
Fisheries Management Zone (v.3)

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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 Ontario (LIO)
- Land Information Ontario Warehouse (LIOW) also occasionally referred to as (OLIW)
- Land Information Data Subscription System (LIDS)
- Land Information Publishing System (LIPS)
- Land Information Security Administration System (LISA)
- 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 the [LIOW data page](#).

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.

**Ministry of Natural Resources (MNR),
Natural Resources Management Division (NRMD),
Fish and Wildlife Branch (F&W),
Fisheries Section**

Status: Established

Concrete Class Details

Fisheries Management Zone v.3 (FISHZONE)

Fisheries Management Zone(s) replace the former Fishing Divisions and are the geographic basis for managing, monitoring, assessing and regulating recreational fisheries for a majority of lakes and streams in a zone. Each zone is based on angler usage and ecological/geographic patterns such as climate zones, watersheds and road networks.

Modeling Template: Simple

Simple modeled NRVIS/LIO concrete classes are implemented to be independent from common tables that are normally shared with standard concrete classes.

Target Databases: NRVIS (v.3.4.9) and OLIV (2011)

Sensitivity Classification and Rationale: Non-Sensitive

Contains no personal or sensitive information, and all data will eventually be published in the new Recreational Fishing Regulations guide.

Associated Geographic Unit Types

Also known as "GUTS", these represent the next level of a concrete class into subtypes. For example, concrete class 'Nesting Site' has a number of "GUTS" defined by species e.g. "Bald Eagle Nesting Site, "Great Blue Heron Nesting Site" etc. With the nesting site example, separate GUTS were created to better manage and control access to data associated with protected and vulnerable bird species.

Grouped by LRC's Sensitivity Classification, with expired GUTS listed at the end.

Non-Sensitive: GUT Name (number) – Status

Information classified as "Non-Sensitive" normally does not have any access restrictions and can be viewed by anyone, including the general public.

Fisheries Management Zone (27) – To be Added

The Fisheries section of the F&W Program has developed a new approach to managing fisheries in Ontario, based on the Ecological Fisheries Framework. One of the

cornerstones for this new framework is to create new Fish Management Zones (FMZs), which will be the geographic areas in which fisheries are managed. These new FMZs are being created by the Surveyor General and will be in regulation by April 2007. The polygons for these FMZs need to be represented in NRVIS/LIO prior to April of 2007.

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

Director Information Owner

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD),
Fish and Wildlife Branch (F&W), Fisheries Section

Main Business Area Contact

Information Management Biologist

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD),
Fish and Wildlife Branch (F&W), Fisheries Section

Business Area Expert

Information Management Biologist Business Area Expert

Ministry of Natural Resources (MNR), Natural Resources Management Division (NRMD),
Fish and Wildlife Branch (F&W), Fisheries Section

Business Area Use

Intended Use and Purpose: To identify the extent of the 20 Fish Management Zones throughout the province. It will define accurate boundaries of recreational and sport fishing zones.

Geospatial Details

This section describes how the data will be spatially represented.

Default geospatial reference details for all NRVIS/LIO 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: SPMPOLY

Spatial Multi-Tessellating-Polygon: An object is represented by ONE or MORE polygons. Polygons may NOT overlap. ALL features in the data class MUST be classified, meaning that HOLES, GAPS or OVERLAPS are NOT allowed. Example: 'Fisheries Management Zone' data class. All land is accounted for and categorized. One zone may be made up of several parcels of land separated by other zones.

Geographic Extent: Province

Data Life-Cycle and Maintenance

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

Maintain

Responsibility of: MNR Fish & Wildlife; Ontario Surveyor General

Agency Location(s):

Frequency: Although there may be adjustments to the zone boundaries in the future, the boundaries are fixed and static and it is not expected that changes will be made annually or at any set period.

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: Only the data custodian can edit this data class. The only way the boundaries should change is if the regulations plans are refilled with the Ontario Surveyor General (OSG) and so only the data custodian should be able to change and not through NRVIS but through a process OSG to NRVIS.

Data Access Maintenance Restrictions/Constraints:

Web Mapping Services (WMS): Yes –

Is a NRVIS View available of the (LIOW) data?: No

NRVIS Administration Details:

Field Data Capture Form: No

Is NDD available for this Data Class?: No

Personal Information Stored: No

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

Appendix 2: How to Interpret a Data Model Diagram

The chart below provides a basic primer on how to interpret the symbology seen in a model's Entity Relationship Diagram (ERD).

