

Land Information Ontario Data Description

Plant Community Occurrence, Provincially Tracked

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LIO Class Catalogue

Plant Community Occurrence, Provincially Tracked

Class Short Name: PCOCCPT

Version Number: 1

Class Description:

A plant community is a recurring assemblage of plants, having a consistent composition and structure, which develops in association with particular combinations of substrate, site moisture, and landform. In Ontario, these are referred to as vegetation types. Examples of provincially tracked vegetation communities include Dry Tallgrass Prairie, White Cedar/Goldthread ? Sphagnum Swamp and Cottonwood Treed Dune. A plant community occurrence is an area of land and/or water on/in which a plant community is or was present. An EO has practical conservation value for the plant community; it is a location important to the conservation of the vegetation type. The methodology used to derive an occurrence varies by plant community type and is based on international standards developed by NatureServe that enable cross-jurisdictional comparisons of WCA occurrences. In Ontario, this methodology is coordinated by the Natural Heritage Information Centre (NHIC) of the Ontario Ministry of Natural Resources.

Abstract Class Name: SPMNTUREGION

Abstract Class

Description:

Spatial Multi-Non-Tessellating-Unconstrained Region: An object is represented by ONE or MORE polygons. Polygons MAY overlap WITHOUT any restrictions. HOLES within and GAPS between polygons ARE allowed. Example: Forest "Insect Damage Area". Mapped "Spruce Budworm" defoliated areas may overlap "Forest Tent Caterpillar" damaged areas. Likewise, mapped "Gypsy Moth" tree mortality areas may overlap mapped other "Gypsy Moth" defoliated areas from current and previous years.

Tables in LIO Class:

Plant Community Occurrence, Provincially Tracked

PC_OCCURRENCE_FT

An discrete occurrence of a Plant Community, consisting of one or more Plant Community observations.

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.				
ELC_FEC_CODE	VARCHAR2 (10)	Yes	FEC_CODE	ALO1-10, ALO1-6, ALO1-7, ALO1-8, ALO1-9, ALS1-1, ... (See PLANT_COMMUNITY_LIST table)
The plant community classification code used by a classification system. This represents a classified plant community at the finest or most detailed level for that classification system.				
OCCURRENCE_RANK	VARCHAR2 (60)	No	OCCUR_RANK	A - Excellent estimated viability, A? - Possibly excellent estimated viability, AB - Excellent or good estimated viability, AC - Excellent, good, or fair estimated viability, B - Good estimated viability, B? - Possibly good estimated viability, BC - Good or fair estimated viability, BD - Good, fair, or poor estimated viability, C - Fair estimated viability, C? - Possibly fair estimated viability, CD - Fair or poor estimated viability, D - Poor estimated viability, D? - Possibly poor estimated viability, E - Verified extant (viability not assessed), F - Failed to find, H - Historical, X - Extirpated, F? - Possibly failed to find, H? - Possibly historical, X? - Possibly extirpated, U - Unrankable, NR - Not ranked
An assigned ranking that describes the quality of the area in relation to other occurrences for the same species. - ---- Note: This field will store both the Occurrence Rank code and its full value. --- For more information about Occurrence Rankings, please refer to the NRVIS Users Guide.				
OCCURRENCE_RANKING_DATE	DATE	No	RANK_DATE	
The date on which the Occurrence Rank was applied.				
OCCURRENCE_RANKING_COMMENT	VARCHAR2 (4000)	No	RANK_COMM	

Comment further explaining the rank as applied to an occurrence.

OCCURRENCE_COMMENTS	VARCHAR2 No (3600)	COMMENTS	
General description about items of interest for an Element Occurrence.			
FIRST_OBSERVATION_DATE	VARCHAR2 No (20)	FIRST_OBS	
The date when a plant community was first observed. Where multiple plant communities observations are used to derive an occurrence, the value of the earliest observation date in the group should be used. ----- Note: Refer to User Guide for date formats.			
LAST_OBSERVATION_DATE	VARCHAR2 No (20)	LAST_OBS	
The date when a plant community was last observed. Where multiple plant communities observations are used to derive an occurrence, the value of the most recent observation date in the group should be used. ----- Note: Refer to User Guide for date formats.			
LOCATION_NAME	VARCHAR2 No (100)	LOCATION	
A generally accepted name for the location where the feature occurs.			
DIRECTIONS	VARCHAR2 No (2600)	DIRECTIONS	
Instructions on how to get to the site including the method (canoe, helicopter etc.), time of year and site accessibility.			
RA_VALUE	VARCHAR2 No (10)	RA_VALUE	Very High, High, Medium, Low, Very Low, Unknown
Representation Accuracy (RA) varies on the basis of area observed to be occupied by the species relative to the area contained within the footprint of the mapped observation. Differences in these two values result from incorporation of additional area within the observation boundary to incorporate associated locational uncertainty. Please refer to user-guide for details. ----- Note: a (null) value in this field indicates that the RA was not assessed.			
RA_COMMENT	VARCHAR2 No (1000)	RA_COMMENT	
Comments related to the value entered in the Representation Accuracy Value.			
GENERAL_COMMUNITY_STRUCTURE	VARCHAR2 No (750)	GEN_STRUCT	
Text describing the structure (physiognomy) of the Plant Community e.g. Oak savannah with scattered, widely spaced, open-grown trees.			
COMMUNITY_DESCR	VARCHAR2 No (3500)	DESCR	
Text to describe the Plant Community Element Occurrence.			
MANAGEMENT_COMMENTS	VARCHAR2 No (1100)	MGMT_COMM	
Comments about the management of the feature at this location.			
PROTECTION_COMMENTS	VARCHAR2 No (700)	PROT_COMM	
Comments about the level of protection provided or required for the site.			
SEPARATION_COMMENTS	VARCHAR2 No (500)	SEP_COMM	
Comments about the separation of this Plant Community occurrence from other nearby species occurrences.			
CONDITION_RATING	VARCHAR2 No (1)	COND_RAT	A, B, C, D

For a Plant Community occurrence, a single-letter code from the list below for the overall condition of the occurrence and the degree to which it will affect the continued existence of the EO. ----- There are many considerations in determining community condition, many of which are dependent on the community itself. These include: 1. Development/maturity (stability, old-growth) ----- 2. Species composition and biological structure (richness, evenness of species distribution, presence of exotics). ----- 3. Ecological processes (degree of disturbance by logging, grazing, changes in hydrology or natural fire regime) ----- 4. Abiotic physical/chemical factors (stability of substrate, physical structure, water quality) ----- Valid Values: ----- A = excellent predicted viability ----- B = good predicted viability ----- C = fair predicted viability ----- D = probably not viable

CONDITION_RATING_COMMENTS	VARCHAR2 No (550)	COND_COMM
Comments about the condition rating		

SIZE_RATING	VARCHAR2 No (1)	SIZE_RAT	A, B, C, D
For a Plant Community occurrence, a single-letter code from the list below for the overall size of the occurrence and the degree to which it will affect the continued existence of the EO. The size rating represents a quantitative measure of the area of occupancy of the occurrence. The threshold of what constitutes a large size depends on whether the Plant Community occurs as a matrix, large patch, or small patch on the landscape. See user guide for additional details. ----- Valid Values: --- A = excellent predicted viability --- B = good predicted viability --- C = fair predicted viability --- D = probably not viable			

SIZE_RATING_COMMENTS	VARCHAR2 No (500)	SIZE_COMM
Text for comments about the size rating.		

LANDSCAPE_CNTX_RATING	VARCHAR2 No (1)	CNTX_RAT	A, B, C, D
For a community occurrence, a single-letter code from the list below for the overall landscape context of the occurrence and the degree to which it will affect the continued existence of the EO. ----- The landscape context rating should consider the following: 1. landscape structure and extent (pattern, connectivity, e.g., measure of fragmentation/ patchiness, measure of genetic connectivity) ----- 2. condition of the surrounding landscape (i.e., development/maturity, species composition, biological structure, ecological processes, abiotic physical and chemical factors) ----- Valid Values: --- A = excellent predicted viability --- B = good predicted viability --- C = fair predicted viability --- D = probably not viable			

LANDSCAPE_CNTX_RATING_COMMENTS	VARCHAR2 No (1000)	CNTX_COMM
Text comments about the Landscape Context Rating.		

NATURAL_DISTURBANCE_COMMENTS	VARCHAR2 No (500)	DISTURB
Text to describe any important natural disturbances to the Plant Community occurrence. This can include information on vegetation or ground cover disturbance, animal use evidence, disturbance history if known, erosion, fire, storms etc. If available, include information on the type of disturbance, intensity, frequency, years of past disturbances, and seasonality.		

ANTHROPOGENIC_DIST_COMMENTS	VARCHAR2 No (500)	ANTHR_DIST
Text to describe any important anthropogenic disturbances to the observed Plant Community occurrence. This can include information on human activities effecting vegetation or ground cover disturbance, as well as disturbance history if known, logging, resulting erosion, fire, etc.		

QUANTITATIVE_METHOD	VARCHAR2 No (8)	QUANT_METH	None, Plot, Plotless
Any sampling method that quantifies the composition of a Plant Community. Quantitative values derived using such a method can include percent cover, frequency, and density. ----- Rule: If quantitative ground survey methods were used, indicate whether plot or plotless techniques were used. If no quantitative methods were used, enter "NONE". ----- Valid Values: --- None: No quantitative sampling was undertaken in the Plant Community. Data is qualitative, consisting of general estimates of dominant species composition. --- Plot: Plot sampling of vegetation involves delimiting a fixed area (quadrat), and recording the plant species present within the bounds. Typically, the percent cover of each species, relative to the size of the plot, is measured as an estimate of species biomass in the Plant Community. --- Plotless: Plotless sampling of vegetation does not involve sampling within a delimited plots. Instead, sampling points, one-dimensional transect lines, or certain			

distances from a sampling point to the nearest plant within the Plant Community are used to derive estimates of percent cover.

PHYSIOGNOMIC_COMMENTS	VARCHAR2 No (500)	PHYS_COMM
Text to describe the physiognomic or summary description of the characteristic structure of the vegetation.		

SUBSTRATE_TYPE	VARCHAR2 No (25)	SUB_TYPE	Silt, Silt Loam, Silty Clay Loam, Silty Clay, Silty Sand, Loam, Clay Loam, Clay, Heavy Clay, Sandy Loam, Sandy Clay Loam, Sandy Clay, Loamy Sand, Sand, Organic, Rock
The primary soil type(s) for a Vegetation observation.			

SUBSTRATE_COMMENTS	VARCHAR2 No (254)	SUB_COMM
Text about the soil/substrate characteristics for a Plant Community observation.		

SENSITIVITY_CLASS	VARCHAR2 Yes (15)	SENS_CLASS	High, Medium, Low, Non-Sensitive
The ranking of the sensitivity of the information embodied in the feature. Often wide-spread knowledge of the location of some rare aspect of our natural heritage will endanger it. On the other hand, this knowledge by some parties is also extremely important for its protection. High - information that is extremely sensitive and intended for use by named individuals only. Refers to information that could have negative impacts on human life or health if released. Currently no data classes meet this Medium - information that is sensitive and intended for use only by specified groups of employees and approved agents of the Crown. For OLIW/NRVIS refers to information where the entire data type has been flagged as sensitive (i.e. Stick Nests for Vulnerable Threatened and Endangered (VTE) species) Low - information generally available to employees and approved agents of the Crown. Refers to sensitive features within a data type not normally sensitive (i.e. specific instances of Pileated Wood pecker) Non-Sensitive - data and information that does not fall into any of the three sensitivity levels. If disclosed will not result in any injury to individuals, government or private sector institutions (i.e. base data).			

SENSITIVITY_RATIONALE	VARCHAR2 Yes (50)	SENS_RAT	VTE Species, Data Provider Agreement, No Restriction Needed, Protect Feature Type, Protect Single Feature, Legislative or Legal Reqt, Other
The primary reason for the information sensitivity classification. Examples: "VTE Species", "Data Provider Agreement", "No Restriction Needed" (for Non-Sensitive data), "Protect Feature Type", "Protect Single Feature", "Legislative or Legal Reqt", "Cultural Heritage Site", "Other". Note: For Species at Risk (SAR) features, please use "Legislative or Legal Reqt" as a rationale.			

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

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

PC_OBS_AND_SPECIES_DOC_REF

Intersect table between PLANT COMMUNITY OBSERVATION and SPECIES DOCUMENT REFERENCE which allows multiple referencing of Plant Community Observations to documents such as standards, protocols, maps, photos taken during observations etc.

Column Name	Column Type	Mandatory	Short Name	Valid Values
PC_OBSERVATION_ID	NUMBER (13,0)	Yes	PC_OBS_ID	

Foreign Key to the parent Species Observation Detail table record. ----- System-generated object

identifier, unique at the application level.

SPECIES_DOCUMENT_REFERENCE_ID	NUMBER (13,0)	Yes	DOC_REF_ID
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Foreign Key from SPECIES DOCUMENT REFERENCE parent table record. ----- System generated identifier, unique at the application level.

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

PC_OCC_AND_OBS

Intersect table between Plant Community Occurrence and Plant Community Observation table. A species occurrence is defined from one or more species observations. ---- Rule: The association between a Plant Community Occurrence feature and a Plant Community Observation can only be accomplished for NHIC evaluated Observation Records where an NHIC Observation Identifier has been assigned.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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PC_OCCURRENCE_ID	NUMBER (13,0)	Yes	PC_OCC_ID
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A unique identifier assigned to each provincially tracked Plant Community occurrence.

PC_OBSERVATION_ID	NUMBER (13,0)	Yes	PC_OBS_ID
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System generated identifier, unique at the application level.

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

PC_OCC_AND_SPECIES_DOC_REF

Intersect table between PLANT COMMUNITY OCCURRENCE and SPECIES DOCUMENT REFERENCE which allows multiple referencing of Plant Community Occurrences to documents such as standards, protocols, maps, photos taken during observations etc.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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PC_OCCURRENCE_ID	NUMBER (13,0)	Yes	PC_OCC_ID
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A unique identifier assigned to each provincially tracked species occurrence.

SPECIES_DOCUMENT_REFERENCE_ID	NUMBER (13,0)	Yes	DOC_REF_ID
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System generated identifier, unique at the application level.

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

PC_OCC_NOTABLE_SPECIES

A notable or tracked species for a specific Plant Community occurrence. A notable species can be an invasive species, species of interest, tracked species. For a tracked species, it is possible to link the Plant Community occurrence to a specific tracked species occurrence.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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PC_OCCURRENCE_ID	NUMBER (13,0)	Yes	PC_OCC_ID
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A unique identifier assigned to each provincially tracked species occurrence.

SPECIES_OCCURRENCE_DETAIL_ID	NUMBER (13,0)	Yes	OCCUR_ID
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System generated identifier, unique at the application level.

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

PC_OCC_SPECIES_COMPOSITION

The dominant or major species that characterize a Plant Community observation. Occurrence values are summarized from the observation details.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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PC_OCCURRENCE_ID	NUMBER (13,0)	Yes	PC_OCC_ID
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A unique identifier assigned to each provincially tracked species occurrence.

SPECIES_ELEMENT_ID	NUMBER (13,0)	Yes	ELEMENT_ID	0, 1000, 10000, 100000, 100002, 100004, ... (See SPECIES_MASTER_LIST table)
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A business value that uniquely identifies a specific species, or an assemblage of species such as plant communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database: ELEMENT_SUBNATIONAL_ID

STRATUM	VARCHAR2 (30)	Yes	STRATUM	Emergent Tree (Super Canopy), Tree Canopy, Tree Sub-Canopy, Tall Shrub (2-5m), Short Shrub (0.5-2m), Dwarf Shrub (0.1-0.5m), Graminoid, Forb, Fern, Non-Vascular, Epiphyte, Vine/Liana
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A stratum is defined as a combination of life-form and height, e.g. a tall shrub stratum is defined by the shrub life-form that is between 2 and 5 m tall. Seedlings and saplings should be placed in the layer having the same height class. To be considered a strata, a vegetation layer must have a minimum of 10% cover. ----- Valid Values: --- Emergent Tree (Super Canopy) --- Tree Canopy --- Tree Sub-Canopy - -- Tall Shrub (2-5m) --- Short Shrub (0.5-2m) --- Dwarf Shrub (0.1-0.5m) --- Graminoid --- Forb --- Fern --- Non-Vascular --- Epiphyte --- Vine/Liana

DOMINANCE_RANK	VARCHAR2 (1)	Yes	DOM_RANK	1, 2, 3, 4, 5
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The summarized ordinal value for the dominance of a species at any stratum. If there are more than five "co-dominants" in a given layer, list (at minimum) the five with the greatest cover. You may enter as many species in addition to the five most abundant as is practical. It is acceptable to have a species listed in more than one strata. Values: 1 - 5 with the number one being the highest dominance. Multiple recordings of the value five indicate a 'more-or-less' equal non-dominance status.

PERCENT_COVERAGE	NUMBER (3,0)	No	PCT_COV
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The percent coverage of a species at the stratum or layer.

SPECIES_COMPOSITION_COMMENT	VARCHAR2 (254)	No	COMP_COMM
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Text describing any special feature for this species in this layer or stratum.

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

PLANT_COMMUNITY_LIST

A lookup list of the plant communities based on the existing vegetation classifications that have been developed by OMNR for northern (Forest Ecosystem Classifications) and southern Ontario (Ecological Land Classification). ----- The hierarchy of detail for a classification system from lowest to highest level of detail is: ----- System, Community Class, Community Series, Ecosite, Vegetation Type (aka ELC or FEC type). The Plant Community layer uses the Vegetation Type as the mapping unit. ----- e.g. #1 The Ecological Land Classification system for Southern Ontario (ELC) outlines this hierarchy as: ----- Community Class: Forest (FO), Community Series: Deciduous Forest (FOD), Ecosite: Fresh - Moist Sugar Maple Deciduous Forest Ecosite (FOD6) Vegetation Type: Fresh - Moist Sugar Maple - Yellow Birch Deciduous Forest Ecosite (FOD6-3) e.g. #2: The Forest Ecosystems of Central Ontario (FEC) hierarchy follows: Community Class: Not Identified Community Series: Not Identified Ecosite: Sugar Sugar Maple - Yellow Birch Fresh to Moist (ES29.2) Vegetation Type: Sugar Maple - Yellow Birch (V10) ----- Community Class/Series are identified in the FEC field guides; however, V10 can be nested within the Deciduous Forest Series and Forest Class.

Column Name	Column Type	Mandatory	Short Name	Valid Values
ELC_FEC_CODE	VARCHAR2 (10)	Yes	FEC_CODE	
The plant community classification code used by a classification system. This represents a classified plant community at the finest or most detailed level for that classification system.				
PLANT_COMMUNITY_ELEMENT_ID	NUMBER (13,0)	Yes	PLANT_COMM	
A business value that uniquely identifies a specific species, or an assemblage of species such as vegetation communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database field: ELEMENT_SUBNATIONAL_ID				
SCI_NAME	VARCHAR2 (254)	Yes	SCI_NAME	
Plant Communities are named on the basis of the dominant overstory and understory plant species present. This is the name of the plant community using the scientific names of these plants. ----- NHIC database field: SCI_NAME				
COM_NAME	VARCHAR2 (254)	Yes	COM_NAME	
Plant Communities are named on the basis of the dominant overstory and understory plant species present. This is the name of the plant community using the English names of these plants. ----- NHIC database field: COM_NAME				
SYSTEM_TYPE	VARCHAR2 (18)	Yes	SYSTEM_TYP	Terrestrial, Wetland, Freshwater Aquatic, Subterranean, Marine
The upper-most organizational level in a vegetation classification system, primarily based on the amount and type of water affecting the structure and composition of the vegetation.				
GLOBAL_RANK	VARCHAR2 (15)	Yes	GRANK	
Global conservation rank maintained by NatureServe.				
NATIONAL_RANK	VARCHAR2 (15)	No	NRANK	
National conservation rank maintained by NatureServe Canada.				

SUBNATIONAL_RANK_CODE	VARCHAR2 (15)	Yes	SRANK
Ontario subnational conservation rank maintained by NHIC.			
CLASSIFICATION_SOURCE	VARCHAR2 (60)	Yes	CLASS_SRC
Abbreviated classification system's source name or code.			
COMMUNITY_CLASS_CODE	VARCHAR2 (10)	Yes	CLASS_C
Code used by the ecological classification system to identify a Community Class.			
COMMUNITY_SERIES_CODE	VARCHAR2 (10)	Yes	SERIES_C
Code used by the ecological classification system to identify a Community Series.			
ECOSITE_CODE	VARCHAR2 (10)	No	ECOSITE_C
Code used by the ecological classification system to identify an Ecosite.			
PLANT_COMMUNITY_CHARACTERISTIC	VARCHAR2 (2000)	No	PLANT_COMM
Text describing the characteristics known for a classified Plant Community.			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			
EXPIRY_DATETIME	DATE	No	EXP_DATE
Date/time that the record was expired from use.			

SPECIES_DOCUMENT_REFERENCE

Non-spatial Editable Table: Stores details about a document referenced by a feature e.g. Title, Author, Publication Year, Location etc. This can include standards, procedures, protocols, maps etc.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
System generated identifier, unique at the application level.				
DOCUMENT_TYPE	VARCHAR2 (25)	Yes	DOC_TYPE	Miscellaneous, Project Management, Report, Standards and Methods, Protocol, Map-OBM, Map-NTS, Map-Other, Photograph, Project Portfolio, Audio, Data Collection Form, Field Notes, Video
Identifies the document type that is being referenced such as a report, standards and methods, protocols and miscellaneous documentation such as maps. ----- Note: Choose "Project Portfolio" where several document types are bundled together for a project.				
TITLE	VARCHAR2 (254)	Yes	TITLE	
The title of the document or publication. It can be abbreviated if the original title is very long. Example for MRD001: Black River Matheson (BRIM) Data, 1989. ----- For maps, the tile or map reference identifier can be documented in this field e.g. "NTS KIRKLAND LAKE 42 A/1"				
AUTHOR	VARCHAR2	No	AUTHOR	

(80)

The name of the organization or individual who authored the document or publication.

PUBLICATION_YEAR	NUMBER (4,0)	No	PUB_YEAR
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The year when the reference was published or otherwise released. Example: 1992

PUBLISHING_INFORMATION	VARCHAR2 (150)	No	PUB_INFO
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The name of the journal, publisher, technical report series and page numbers if applicable.

MAP_SCALE	VARCHAR2 (15)	No	MAP_SCALE
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Where applicable, the scale of the reference map e.g. 1:50,000.

DOCUMENT_LOCATION	VARCHAR2 (254)	No	DOC_LOC
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Identifies the physical location of the referenced document. If the document is digital and is available online, the url to the document or its location can be stored in this field.

PACKAGED_PRODUCT_IND	VARCHAR2 (3)	No	PACK_PROD Yes, No
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A Yes/No indicator whether the document is stored and available in the Land Information Ontario Warehouse as a packaged product.

GENERAL_COMMENTS	VARCHAR2 (2000)	No	GNL_CMT
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General comments about the reference document.

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

SPECIES_MASTER_LIST

A master listing of all Ontario fauna and flora that are of interest to the Ontario Ministry of Natural Resources. A unique Element Id is assigned to each element that identifies either: - a specific species / subspecies / variety. - a grouping or category of species e.g. at the Family or Genus level. Where applicable, various element significance rankings (e.g. Sensitivity, Provincially Tracked, COSEWIC Status, SARA Status etc.) are included in this master list. --- Note: The Species Master List is used exclusively by NRVIS / LIO and is derived and updated from the Natural Heritage Information Centre master species listings.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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SPECIES_ELEMENT_ID	NUMBER (13,0)	Yes	ELEMENT_ID	
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A business value that uniquely identifies a specific species, or an assemblage of species such as vegetation communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database: ELEMENT_SUBNATIONAL_ID

ELCODE	VARCHAR2 (254)	No	ELCODE	
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Assigned by NatureServe, the value in this field can be used to filter out species groupings such as bird species, fish species etc. These codes change as the species classification changes, and should not be used as a long-term species code. For a unique species ID, Element ID should be used. ----- NHIC database field: ELCODE

SCI_NAME	VARCHAR2 (254)	Yes	SCI_NAME	
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The scientific name of the organism which identifies the genus and species. ----- NHIC database

field: SCI_NAME

COM_NAME	VARCHAR2 No (75)	COM_NAME	
The common name assigned to a species, a group of species, or a community. The common name may describe category levels such as species, subspecies, hybrids, varieties, families, genus, and communities. Note: As the common name may be generically described, users should also refer to the Scientific Name to ensure that the proper master species list record is selected and / or associated to. ----- NHIC database field: COM_NAME			
TAXON_GROUP	VARCHAR2 No (40)	TAXON_GRP	
The taxon group reference assigned to an element by the Natural Heritage Information Centre (NHIC). For example "Fish", "Amphibians", "Birds", "Trees", "Shrubs" etc.			
REC_SENSITIVITY_CLASS	VARCHAR2 Yes (15)	REC_SENS	Low, Medium, Non-Sensitive
Identifies the recommended Data Sensitivity Class for a species that should be applied by the user for any associated feature e.g. observations. The Sensitivity Classes are Low, Medium and Non-Sensitive. ----- Note-1: Data protection for an identified species is normally applicable for mapped features pinpointing a narrow geographical area vs. a generalized area. For example, access to the spatial and attribute data for a SAR nesting site location would be controlled, whereas a mapped Habitat Range for the same species would not require the same level of data protection as it covers a large geographical area. --- Note-2: the recommended sensitivity for a species will be displayed to the user when they choose a species from the Species Master List. It will up to the discretion of the editor to manually flag the feature with the appropriate sensitivity class.			
NHIC_TRACKED_IND	VARCHAR2 No (1)	NHIC_TRACK	Y, N,P
A "Yes" or "No" indicator assigned by NHIC if the identified species is provincially tracked or not. --- The value is stored as a single character where: Y = Yes N = No ----- Note: Species identified as being Provincially Tracked are assigned an MNR Sensitivity Ranking of "Medium" to control data access and security associated with the precise-scale mapped locations of features e.g. Bald Eagle Nesting Site. ----- NHIC database field: TRACKED			
NHIC_SENSITIVE_IND	VARCHAR2 No (1)	NHIC_SENS	Y, N
A "Yes" or "No" indicator assigned by NHIC if the identified species is assigned a higher sensitivity within the listing of rare and / or at risk species e.g. Ginseng, Wood Turtle. ----- The value is stored as a single character where: Y = Yes N = No ----- Please refer to the NHIC website for current standards relating to the use of species and individual element occurrences marked as sensitive. ----- NHIC database field: SENS_IND			
MNR_INVASIVE_IND	VARCHAR2 No (1)	MNR_INVAS	Y, N
A "Yes" or "No" indicator if a species is considered "invasive" by the Ontario Ministry of Natural Resources (OMNR), including invasive species, meaning it is having a destructive effect on other native species within its habitat. This indicator is maintained by Natural Heritage Information Centre (NHIC) staff. ----- The value is stored as a single character where: Y = Yes N = No ----- NHIC database field: PEST			
COSEWIC_STATUS	VARCHAR2 No (15)	COSEWIC	
A COSEWIC (Committee on the Status of Endangered Wildlife in Canada) status is the result of a detailed assessment of the status of a species. A COSEWIC status identifies whether or not a species is at risk of becoming extinct nationally. Species at risk are those designated as Endangered or Threatened. ----- Visit http://www.cosewic.gc.ca/ for additional information about COSEWIC. ----- The COSEWIC Status is represented as a code in this field, explained as follows: Extinct (X) - A wildlife species that no longer exists. --- Extirpated (XT) - A wildlife species that no longer exists in the wild in Canada, but exists elsewhere. --- Endangered (E) - A wildlife species facing imminent extirpation or extinction. --- Threatened (T) - A wildlife species that is likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction. --- Special Concern (SC) - A wildlife species that may become threatened or endangered because of a combination of biological characteristics and identified threats. --- Data			

Deficient (DD) - A category that applies when the available information is insufficient (a) to resolve a wildlife species' eligibility for assessment or (b) to permit an assessment of the wildlife species' risk of extinction. --- Not At Risk (NAR) - A wildlife species that has been evaluated and found to be not at risk of extinction given the current circumstances. --- Note: Some values may be combined within the same field. ----- NHIC database field: COSEWIC

COSEWIC_STATUS_DATE	DATE	No	COSEWIC_DT
The date that the COSEWIC Status is effective. ----- NHIC database field: COSEWIC_DATE			
COSEWIC_COMMENTS	VARCHAR2 (254)	No	COSEWIC_CO
Comments about the currently assigned COSEWIC Status. ----- NHIC database field: COSEWIC_COM			
SARA_SCHEDULE_STATUS	VARCHAR2 (15)	No	SARA_SCHED
The status assigned to a species by the Federal Government Species at Risk Act (SARA). The SARA Status is stored as a code in this field whose values include: E = Endangered SC = Special Concern T = Threatened XT = Extirpated ----- NHIC database field: SARA_SCHD_1_STATUS			
SARA_STATUS_DATE	DATE	No	SARA_DATE
The date that the Federal Species at Risk Act (SARA) Status is effective. ----- NHIC database field: SARA_STATUS_DATE			
SUBNATIONAL_RANK_CODE	VARCHAR2 (15)	No	SRANK_CODE
Ontario Sub-National rank maintained by the Natural Heritage Information Centre (NHIC). Provincial (or Sub-National) ranks are used by the Natural Heritage Information Centre to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. By comparing the global and provincial ranks, the status, rarity, and the urgency of conservation, needs can be ascertained. ----- The NHIC evaluates provincial ranks on a continual basis and produces updated lists at least annually. ----- The Sub-National Rank codes and definitions are as follows: --- SX = Presumed Extirpated - Species or community is believed to be extirpated from the nation or state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered. --- SH = Possibly Extirpated (Historical) - Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community could become NH or SH without such a 20-40 year delay if the only known occurrences in a nation or state/province were destroyed or if it had been extensively and unsuccessfully looked for. The NH or SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences. --- S1= Critically Imperilled - Critically imperilled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province. --- S2 = Imperilled - Imperilled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province. --- S3 = Vulnerable - Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation. --- S4 = Apparently Secure - Uncommon but not rare; some cause for long-term concern due to declines or other factors. --- S5 = Secure - Common, widespread, and abundant in the nation or state/province. --- SNR = Unranked - Nation or state/province conservation status not yet assessed. --- SU = Unrankable - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. --- SNA = Not Applicable - A conservation status rank is not applicable because the species is not a suitable target for conservation activities. --- S#S# = Range Rank - A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4). ----- Description Source: NHIC Glossary ----- NHIC database field: S_RANK			
SUBNATIONAL_RANK_CHANGE_DATE	DATE	No	SRANK_DATE
The effective date that the Subnational Rank was changed by NHIC for a species. ----- NHIC database field: S_RANK_CHANGE_DATE			

SUBNATIONAL_RANK_REVIEW_DATE	DATE	No	SRANK_REV
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The date that the Subnational Rank was reviewed by NHIC. ----- NHIC database field:
S_RANK_REVIEW_DATE

SUBNATIONAL_RANK_REASON	VARCHAR2 (254)	No	SRANK_REAS
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The reason documented by NHIC for the assigned Subnational Rank. ----- NHIC database field:
S_RANK_REASONS

SARO_STATUS	VARCHAR2 (15)	No	SARO_STAT
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If a species is classified "at risk" by the Committee on the Status of Species at Risk in Ontario, they are added to the Species at Risk in Ontario (SARO) list in one of the following four categories, depending on the degree of risk: EXP = EXTIRPATED - a native species that no longer exists in the wild in Ontario, but still exists elsewhere (e.g. Greater Prairie Chicken) --- END = ENDANGERED - a native species facing extinction or extirpation (e.g. Cucumber Tree) --- THR = THREATENED - a native species at risk of becoming endangered in Ontario (e.g. Fowler's Toad) --- SC = SPECIAL CONCERN - a native species that is sensitive to human activities or natural events which may cause it to become endangered or threatened (e.g. Monarch Butterfly).

SARO_STATUS_DATE	DATE	No	SARO_DATE
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The calendar date that is applicable to the current Species At Risk in Ontario (SARO) status.

SARO_STATUS_COMMENTS	VARCHAR2 (254)	No	SARO_COM
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Comments relating to the current Species At Risk in Ontario (SARO) status.

KINGDOM	VARCHAR2 (10)	No	KINGDOM
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The classified Kingdom of the species: In biology, kingdom is a taxonomic rank above Phylum. Kingdom classifications are as follows: Moneira - Unicellular and colonial organisms, including the true bacteria and cyanobacteria. --- Protista ? Organisms with just one eukaryotic cell. --- Fungi ? Including mushrooms and other fungus. --- Plantae ? Including trees, grass and flowers. --- Animalia ? From snails, birds, reptiles, amphibians to mammals ----- NHIC database field:
KINGDOM

PHYLUM	VARCHAR2 (100)	No	PHYLUM
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The classified Phylum of the species. In biology, phylum is a taxonomic rank below Kingdom and above Class. ----- NHIC database field: PHYLUM

SUBPHYLUM	VARCHAR2 (100)	No	SUBPHYLUM
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In biology, subphylum is a taxonomic rank intermediate between phylum and superclass. Not all organisms are assigned to a subphylum.

CLASS_TAXON	VARCHAR2 (100)	No	CLASS_TX
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In biology, class is a taxonomic rank between superclass and subclass. ----- NHIC database field:
CLASS

SUBCLASS	VARCHAR2 (100)	No	SUBCLASS
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In biology, subclass is a taxonomic rank intermediate between class and infraclass.

INFRACCLASS	VARCHAR2 (100)	No	INFRACCLASS
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In biology, infraclass is a taxonomic rank intermediate between subclass and order.

ORDER_TAXON	VARCHAR2 (100)	No	ORDER_TX
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In biology, order is a taxonomic rank between infraclass and suborder. ----- NHIC database field:

ORDER

SUBORDER	VARCHAR2 No (100)	SUBORDER
In biology, suborder is a taxonomic rank intermediate between order and infraorder.		
INFRAORDER	VARCHAR2 No (100)	INFRAORDER
In biology, infraorder a taxonomic rank intermediate between suborder and superfamily.		
SUPERFAMILY	VARCHAR2 No (100)	SUPERFAMIL
In biology, superfamily is a taxonomic rank intermediate between infraorder and family.		
FAMILY_ID	NUMBER No (13,0)	FAMILY_ID
The NatureServe Identifier assigned a each species nomenclature Family. ----- NHIC database field: FAM_ID		
FAMILY	VARCHAR2 No (100)	FAMILY
In biology, family is a taxonomic rank between superfamily and subfamily. ----- NHIC database field: FAMILY		
FAMILY_NAME	VARCHAR2 No (20)	FAMILY_NAM
A generic name to describe the family of a species. For example, the family: Aceraceae is described in this field as "maple family". ----- NHIC database field: FAM_NAME		
SUBFAMILY	VARCHAR2 No (100)	SUBFAMILY
In biology, subfamily is a taxonomic rank intermediate between family and tribe.		
TRIBE	VARCHAR2 No (100)	TRIBE
In biology, tribe is a taxonomic rank intermediate between subfamily and genus.		
GENUS_ID	NUMBER No (13,0)	GENUS_ID
The NatureServe Identifier assigned a each species nomenclature Genus. ----- NHIC database field: GENUS_ID		
GENUS	VARCHAR2 No (100)	GENUS
In biology, genus is a taxonomic rank between tribe and subgenus. ----- NHIC database field: GENUS		
GENUS_NAME	VARCHAR2 No (100)	GENUS_NAME
A generic name to describe the Genus of a species. For example, the Genus: Rhus is described in this field as "sumac". ----- NHIC database field: GENUS_NAME		
SUBGENUS	VARCHAR2 No (100)	SUBGENUS
In biology, subgenus is a taxonomic rank intermediate between genus and species.		
SPECIES	VARCHAR2 No (100)	SPECIES
In biology, a species is a taxonomic rank between subgenus and subspecies.		
SUBSPECIES	VARCHAR2 No (100)	SUBSPECIES

In biology, subspecies is a taxonomic rank below species.

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

EXPIRY_DATETIME	DATE	No	EXP_DATE
Date/time that the record was expired from use.			

SPECIES_OCCURRENCE

Details about a Species Occurrence.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
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System generated identifier, unique at the application level.

CLASS_SHORT_NAME	VARCHAR2 (11)	Yes	CLASS_NAME	
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The unique LIO database short name assigned to every Data Class. For example: SPOCC = Species Occurrence
SPOCCPE = Species Occurrence Pending

SPC_REC_CREATOR_GROUP	VARCHAR2 (100)	Yes	CREATOR_GR	Yes, No
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Identifies the group responsible for creating the species occurrence pending record using the Corporate Editor. -----
Field Purpose: Permits the filtering of occurrence data by their record creator origin. For example, finding records created by Parks Ontario, NHIC, Caribou Program, Guelph District etc.

SPECIES_ELEMENT_ID	NUMBER (13,0)	Yes	ELEMENT_ID	0, 1000, 10000, 100000, 100002, 100004, ... (See SPECIES_MASTER_LIST table)
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A business value that uniquely identifies a specific species, or an assemblage of species such as vegetation communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- Note: For Species Occurrence Provincial, the following filter will be used in the Species Master List: WHERE TRACKED = Y AND PEST = Y ----- NHIC database: ELEMENT_SUBNATIONAL_ID

EO_ID	NUMBER (10,0)	Yes	EO_ID	
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A unique identifier assigned to each provincially tracked species occurrence.

OCCURRENCE_RANK	VARCHAR2 (65)	No	OCCUR_RANK	A - Excellent estimated viability, A? - Possibly excellent estimated viability, AB - Excellent or good estimated viability, AC - Excellent, good, or fair estimated viability, B - Good estimated viability, B? - Possibly good estimated viability, BC - Good or fair estimated viability, BD - Good, fair, or poor estimated viability, C - Fair estimated viability, C? - Possibly fair estimated viability, CD - Fair or poor estimated viability, D - Poor estimated viability, D? - Possibly poor estimated viability, E - Verified extant (viability not assessed), F - Failed to find, H - Historical, X - Extirpated, F? - Possibly failed to find, H? - Possibly historical, X? - Possibly extirpated, U - Unrankable, NR - Not ranked
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An assigned ranking that describes the quality of the area in relation to other occurrences for the same species. -----
Note: This field will store both the Occurrence Rank code and its full value. --- For more information about Occurrence

Rankings, please refer to the NRVIS Users Guide.

OCCURRENCE_RANKING_DATE	DATE	No	RANK_DATE	
The date on which the Occurrence Rank was applied.				
OCCURRENCE_RANKING_COMMENT	VARCHAR2 (2000)	No	RANK_COMM	
Comment further explaining the rank as applied to an occurrence.				
FIRST_OBSERVATION_DATE	VARCHAR2 (20)	No	FIRST_OBS	
The date when a species was first observed. Where multiple species observations are used to derive an occurrence, the value of the earliest observation date in the group should be used. ----- Refer to user guide for recommended best practices regarding the date format for values stored in this field.				
LAST_OBSERVATION_DATE	VARCHAR2 (20)	No	LAST_OBS	
The date when a species was last observed. Where multiple species observations are used to derive an occurrence, the value of the most recent observation date in the group should be used. ----- Refer to user guide for recommended best practices regarding the date format for values stored in this field.				
LOCATION_NAME	VARCHAR2 (100)	No	LOCATION	
A generally accepted name for the location where the feature occurs.				
DIRECTIONS	VARCHAR2 (2000)	No	DIRECTIONS	
Instructions on how to get to the site including the method (canoe, helicopter etc.), time of year and site accessibility.				
RA_VALUE	VARCHAR2 (20)	No	RA_VALUE	Very High, High, Medium, Low, Very Low, Unknown
Representation Accuracy (RA) varies on the basis of area observed to be occupied by the species relative to the area contained within the footprint of the mapped observation. Differences in these two values result from incorporation of additional area within the observation boundary to incorporate associated locational uncertainty. Please refer to user-guide for details. ----- Note: a (null) value in this field indicates that the RA was not assessed.				
RA_COMMENT	VARCHAR2 (1000)	No	RA_COMMENT	
Comments related to the value entered in the Representation Accuracy Value.				
BIOLOGICAL_DETAILS_NOTES	VARCHAR2 (2000)	No	BIOL_DET	
Data collected on the biology of this Occurrence, including the number of individuals, vigor, habitat, soils, associated species, peculiar characteristics, etc. ----- NHIC database field name: EO_DATA				
HABITAT_USE_CLASS	VARCHAR2 (75)	No	HAB_CLASS	Caribou Winter Activity Area, Dispersal - Dispersal Site, Dispersal - Travel Corridor, Diurnal Movement - Roosting Site, Feeding - Burrowing Site, Feeding - Caching Site, ... (See SPECIES_HABITAT_USE_CLASS_LIST table)
The life process and subcategory associated with a particular site. ----- Note: The permissible values for this field were defined by the Natural Heritage Information Centre (NHIC) and Species at Risk (SAR). ----- Rule: When a value of "Other" is chosen, it should be described in the "Habitat Description" field.				
HABITAT_DESCR	VARCHAR2 (2000)	No	HAB_DESCR	
Freeform text about the surrounding habitat.				
HABITAT_BEST_BEFORE_DATE	VARCHAR2 (8)	No	HAB_BEST_B	

The date past which the area may no longer contain valid habitat. The default value should be five years ahead of the record effective date for the feature. ----- The format is as follows: YYYYMMDD (Year-Month-Day) e.g. 19631031

MANAGEMENT_COMMENTS	VARCHAR2	No	MGMT_COMM
	(2000)		

Comments about the management of the feature at this location.

PROTECTION_COMMENTS	VARCHAR2	No	PROT_COMM
	(2000)		

Comments about the level of protection provided or required for the site.

SEPARATION_COMMENTS	VARCHAR2	No	SEP_COMM
	(1000)		

Comments about the separation of this species occurrence from other nearby species occurrences.

DATA_RESTRICT_IND	VARCHAR2	No	RESTR_IND	Yes, No
	(3)			

A Yes/No indicator where additional data protection is required for the feature e.g. omit spatial and attribute data from public viewing. Users should elaborate the reason why the data should be protected in the Data Restriction Rationale field. ----- Default = No

DATA_RESTRICT_RATIONALE	VARCHAR2	No	RESTR_RAT
	(254)		

The rationale explaining why there is a restriction on the observation data e.g. a snake hibernaculum near a public path. Data Restrictions are judged on a case-by-case basis and MNR District recommendations. ----- This field should be used to indicate any other information which may be relevant to the sensitivity of the species, e.g. Global conservation status rank, Provincial conservation responsibility, rarity and distribution in the province. ----- This field provides an explanation where spatial observation data should have additional protection when displayed. ----- CAVEAT: Users MUST still flag features with the appropriate Sensitivity Class to ensure proper data protection in the Ontario data warehouse (Low, Medium or Non-Sensitive)

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

LIO Lookup Table Values:

PLANT_COMMUNITY_LIST

ELC FEC CODE	PLANT COMMUNITY ELEMENT ID	SCI NAME	COM NAME	SYSTEM TYPE	GLOBAL RANK	NATIONAL RANK	SUBNATIONAL RANK CODE	CLASSIFICATION SOURCE	COMMUNITY CLASS CODE	COMMUNITY SERIES CODE	ECOSITE CODE	PLANT COMMUNITY CHARACTERISTIC	EXPIRY DATE
ALO1-10	183860	Canada Bluegrass - Nodding Onion Alvar Grassland Type	Canada Bluegrass - Nodding Onion Alvar Grassland Type	Terrestrial	G1?		S1	Ontario Natural Heritage Information Centre	AL	ALO	ALO1		
ALO1-6	183856	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type	Terrestrial	G2?		S2	Ontario Natural Heritage Information Centre	AL	ALO	ALO1		
ALO1-7	183857	Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type	Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type	Terrestrial	G1Q		S1	Ontario Natural Heritage Information Centre	AL	ALO	ALO1		
ALO1-8	183858	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type	Terrestrial	G2G3?		S2S3	Ontario Natural Heritage Information Centre	AL	ALO	ALO1		
ALO1-9	183859	Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type	Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type	Terrestrial	G2G3?		S2S3	Ontario Natural Heritage Information Centre	AL	ALO	ALO1		
ALS1-1	183861	Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type	Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type	Terrestrial	G2?		S2	Ontario Natural Heritage Information Centre	AL	ALS	ALS1		
ALS1-2	183862	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type	Terrestrial	G2?		S2	Ontario Natural Heritage Information Centre	AL	ALS	ALS1		
ALT1-1	183867	Chinquapin Oak - Nodding Onion Treed Alvar Grassland Type	Chinquapin Oak - Nodding Onion Treed Alvar Grassland Type	Terrestrial	G1?		S1	Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
ALT1-2	183868	Shagbark Hickory - Prickly Ash - Philadelphia Panic Grass Treed Alvar Grassland Type	Shagbark Hickory - Prickly Ash - Philadelphia Panic Grass Treed Alvar Grassland Type	Terrestrial	G1Q		S1	Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
ALT1-3	183863	White Cedar - Jack Pine - Shrubby Cinquefoil Treed Alvar Pavement	White Cedar - Jack Pine - Shrubby Cinquefoil Treed Alvar Pavement	Terrestrial	G1G2		S1	Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
ALT1-5	183866	Red Cedar - Early Buttercup Treed Alvar Grassland Type	Red Cedar - Early Buttercup Treed Alvar Grassland Type	Terrestrial	G2?		S2	Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
ALT1-6	183864	Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type	Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type	Terrestrial	G1?		S1	Ontario Natural Heritage Information Centre	AL	ALT	ALT1		

ALT1-7	183865	White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type	White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type	Terrestrial	G3?			S3	Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
ALT1-8	183869	Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type	Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type	Terrestrial	G2?		S2		Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
ALT1-9	194112	Bur Oak Treed Alvar Type	Bur Oak Treed Alvar Type	Terrestrial	G1?		S1S2		Ontario Natural Heritage Information Centre	AL	ALT	ALT1		
BBO1-1	183639	Sea Rocket Sand Beach Type	Sea Rocket Sand Beach Type	Terrestrial	G2G4		S2S3		Ontario Natural Heritage Information Centre	BB	BBO	BBO1		
BBO1-2	183766	Wormwood Gravel Beach Type	Wormwood Gravel Beach Type	Terrestrial	G3G4		S2S3		Ontario Natural Heritage Information Centre	BB	BBO	BBO1		
BBO2-1	183605	Shrubby Cinquefoil Limestone Beach Type	Shrubby Cinquefoil Limestone Beach Type	Terrestrial	G3G4		S2		Ontario Natural Heritage Information Centre	BB	BBO	BBO2		
BBO3-1	183588	Sandstone Bedrock Beach / Bar Ecosite	Sandstone Bedrock Beach / Bar Ecosite	Terrestrial	G4?		S1		Ontario Natural Heritage Information Centre	BB	BBO	BBO3		
BBO4-1	183845	Granite Bedrock Beach / Bar Ecosite	Granite Bedrock Beach / Bar Ecosite	Terrestrial	G4?		S5		Ontario Natural Heritage Information Centre	BB	BBO	BBO4		
BBO5-1	194113	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type	Terrestrial	G?		S3		Ontario Natural Heritage Information Centre	BB	BBO	BBO5		
BBO6-1	194132	Acidic Open Bedrock Shoreline Type	Acidic Open Bedrock Shoreline Type	Terrestrial	G?		S5		Ontario Natural Heritage Information Centre	BB	BBO	BBO6		
BBS1-1	183767	Red Cedar-Common Juniper Shingle Beach Type	Red Cedar-Common Juniper Shingle Beach Type	Terrestrial	G3G4		S1		Ontario Natural Heritage Information Centre	BB	BBS	BBS1		
BBS1-2	183768	Willow Gravel Bar Type	Willow Gravel Bar Type	Terrestrial	G?		S4		Ontario Natural Heritage Information Centre	BB	BBS	BBS1		
BLO1-1	183607	Open Clay Bluff Type	Open Clay Bluff Type	Terrestrial	G?		S4		Ontario Natural Heritage Information Centre	BL	BLO	BLO1		
BLO2-1	183590	Open Sand / Clay Bluff Type	Open Sand / Clay Bluff Type	Terrestrial	G?		S4		Ontario Natural Heritage Information Centre	BL	BLO	BLO2		
BOO1-	183761	Few-seeded Sedge	Few-seeded Sedge	Wetland	G3G4		S5		Ontario Natural	BO	BOO	BOO1		

1		Graminoid Bog Type	Graminoid Bog Type					Heritage Information Centre					
BOO1-2	183762	Cotton-grass Graminoid Bog Type	Cotton-grass Graminoid Bog Type	Wetland	G3G4		S5	Ontario Natural Heritage Information Centre	BO	BOO	BOO1		
BOO1-3	194110	Virginia Chain Fern Open Bog Type	Virginia Chain Fern Open Bog Type	Wetland	G3G4		S3	Ontario Natural Heritage Information Centre	BO	BOO	BOO1		
BOS1-1	183763	Leatherleaf Shrub Bog Type	Leatherleaf Shrub Bog Type	Wetland	G5		S5	Ontario Natural Heritage Information Centre	BO	BOS	BOS1		
BOS2-1	183764	Leatherleaf Shrub Kettle Peatland Type	Leatherleaf Shrub Kettle Peatland Type	Wetland	G3G4		S3	Ontario Natural Heritage Information Centre	BO	BOS	BOS2		
BOS2-2	183765	Highbush Blueberry Shrub Kettle Peatland Type	Highbush Blueberry Shrub Kettle Peatland Type	Wetland	G2Q		S1S2	Ontario Natural Heritage Information Centre	BO	BOS	BOS2		
BOT1-1	183600	Black Spruce Treed Bog Type	Black Spruce Treed Bog Type	Wetland	G5		S5	Ontario Natural Heritage Information Centre	BO	BOT	BOT1		
BOT2-1	183791	Tamarack-Leatherleaf Treed Kettle Peatland Type	Tamarack-Leatherleaf Treed Kettle Peatland Type	Wetland	G3G4		S3	Ontario Natural Heritage Information Centre	BO	BOT	BOT2		
CCR1-1	183784	Liverwort - Moss - Fern Limestone Crevice Type	Liverwort - Moss - Fern Limestone Crevice Type	Terrestrial	G5		S4	Ontario Natural Heritage Information Centre	CC	CCR	CCR1		
CCR1-2	183853	Limestone / Dolostone Crevice Cave Ecosite	Limestone / Dolostone Crevice Cave Ecosite	Terrestrial	G?		S1	Ontario Natural Heritage Information Centre	CC	CCR	CCR1		
CLO1-1	183776	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type	Terrestrial	G5		S3	Ontario Natural Heritage Information Centre	CL	CLO	CLO1		
CLO1-2	183777	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type	Terrestrial	G5		S3	Ontario Natural Heritage Information Centre	CL	CLO	CLO1		
CLO1-3	183778	Canada Bluegrass Open Unshaded Limestone / Dolostone Cliff Face Type	Canada Bluegrass Open Unshaded Limestone / Dolostone Cliff Face Type	Terrestrial	G5		S3	Ontario Natural Heritage Information Centre	CL	CLO	CLO1		
CLO1-4	183582	Open Limestone / Dolostone Seepage Cliff Type	Open Limestone / Dolostone Seepage Cliff Type	Terrestrial	GNRQ		S3	Ontario Natural Heritage Information Centre	CL	CLO	CLO1		
CLO1-5	183779	Open Limestone / Dolostone Cliff Rim	Open Limestone / Dolostone Cliff Rim	Terrestrial	G5		S2	Ontario Natural Heritage	CL	CLO	CLO1		

		Type	Type					Information Centre				
CLO1-6	194124	Boreal Carbonate Open Cliff Type	Boreal Carbonate Open Cliff Type	Terrestrial	G4G5		S1S2	Ontario Natural Heritage Information Centre	CL	CLO	CL01	
CLO2-1	183581	Open Sandstone Cliff Ecosite	Open Sandstone Cliff Ecosite	Terrestrial	GNRQ		S1	Ontario Natural Heritage Information Centre	CL	CLO	CLO2	
CLO2-2	194116	Boreal Acidic Sandstone Open Cliff Type	Boreal Acidic Sandstone Open Cliff Type	Terrestrial	G4G5		S2	Ontario Natural Heritage Information Centre	CL	CLO	CLO2	
CLO3-1	183587	Moist Moss - Liverwort Granite Cliff Face Type	Moist Moss - Liverwort Granite Cliff Face Type	Terrestrial	G4Q		S4	Ontario Natural Heritage Information Centre	CL	CLO	CL03	
CLO3-2	194119	Acidic Granite Open Cliff Type	Acidic Granite Open Cliff Type	Terrestrial	G?		S3S4	Ontario Natural Heritage Information Centre	CL	CLO	CLO3	
CLO4-1	194122	Basic Open Cliff Type	Basic Open Cliff Type	Terrestrial	G?		S3S4	Ontario Natural Heritage Information Centre	CL	CLO	CLO4	
CLS1-1	183623	Common Juniper Open Limestone / Dolostone Cliff Rim Shrubland Type	Common Juniper Open Limestone / Dolostone Cliff Rim Shrubland Type	Terrestrial	G?		S2S3	Ontario Natural Heritage Information Centre	CL	CLS	CLS1	
CLS1-2	183625	Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type	Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type	Terrestrial	G?		S3	Ontario Natural Heritage Information Centre	CL	CLS	CLS1	
CLS2-1	183846	Sandstone Cliff Shrubland Ecosite	Sandstone Cliff Shrubland Ecosite	Terrestrial	GNRQ		S1	Ontario Natural Heritage Information Centre	CL	CLS	CLS2	
CLS3-1	183644	Granite Cliff Shrubland Ecosite	Granite Cliff Shrubland Ecosite	Terrestrial	G?		S4	Ontario Natural Heritage Information Centre	CL	CLS	CLS3	
CLT1-1	183595	White Cedar Treed Limestone Cliff Type	White Cedar Treed Limestone Cliff Type	Terrestrial	G2Q		S3	Ontario Natural Heritage Information Centre	CL	CLT	CLT1	
CLT1-2	183780	Sugar Maple - Ironwood - White Ash Treed Limestone Cliff Type	Sugar Maple - Ironwood - White Ash Treed Limestone Cliff Type	Terrestrial	G?		S3	Ontario Natural Heritage Information Centre	CL	CLT	CLT1	
CLT1-3	183620	White Birch - Aspen Treed Limestone Cliff Type	White Birch - Aspen Treed Limestone Cliff Type	Terrestrial	G?		S3S4	Ontario Natural Heritage Information Centre	CL	CLT	CLT1	
CLT2-1	183847	Treed Sandstone Cliff Ecosite	Treed Sandstone Cliff Ecosite	Terrestrial	GNRQ		S1	Ontario Natural Heritage	CL	CLT	CLT2	

								Information Centre					
CLT3-1	183848	Treed Granite Cliff Ecosite	Treed Granite Cliff Ecosite	Terrestrial	G?		S4S5	Ontario Natural Heritage Information Centre	CL	CLT	CLT3		
CV1	201007	Sugar Maple-Basswood/Leatherwood Forest	Sugar Maple-Basswood/Leatherwood Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD5		
CV10	201016	Sugar Maple-Yellow Birch/Spinulose Wood Fern Forest	Sugar Maple-Yellow Birch/Spinulose Wood Fern Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD6		
CV11	201017	Yellow Birch-Sugar Maple-White Spruce-White Cedar/Mountain Maple Forest	Yellow Birch-Sugar Maple-White Spruce-White Cedar/Mountain Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM3		
CV12	201018	Sugar Maple-White Birch-Trembling Aspen-Red Maple-Balsam Fir Shrub Forest	Sugar Maple-White Birch-Trembling Aspen-Red Maple-Balsam Fir Shrub Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD6		
CV13	201019	Sugar Maple-White Birch-Red Maple-Fly Honey Suckle-Beaked Hazel Forest	Sugar Maple-White Birch-Red Maple-Fly Honey Suckle-Beaked Hazel Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD6		
CV14	201020	White Birch-Red Maple-Trembling Aspen-Mountain Maple Forest	White Birch-Red Maple-Trembling Aspen-Mountain Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD8		
CV15	201021	Sugar Maple-Hemlock-Yellow Birch-Red Maple-Striped Maple Forest	Sugar Maple-Hemlock-Yellow Birch-Red Maple-Striped Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM3		
CV16	201022	Sugar Maple-Hemlock-Yellow Birch-Striped Maple Forest	Sugar Maple-Hemlock-Yellow Birch-Striped Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM3		
CV17	201023	Sugar Maple-Hemlock-Striped Maple Forest	Sugar Maple-Hemlock-Striped Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM3		
CV18	201024	Hemlock-Yellow Birch-Goldthread-Wood Sorrel Forest	Hemlock-Yellow Birch-Goldthread-Wood Sorrel Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM3		
CV19	201025	Hemlock-Spinulose Wood Fern-Herb Poor Forest	Hemlock-Spinulose Wood Fern-Herb Poor Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOC	FOC3		
CV2	201008	Sugar Maple-Beech/Striped Maple Forest	Sugar Maple-Beech/Striped Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD6		
CV20	201026	Trembling Aspen-Balsam Poplar-Speckled Alder Forest	Trembling Aspen-Balsam Poplar-Speckled Alder Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD8		
CV21	201027	White Cedar-Trembling Aspen-White Spruce-Twinflower Forest	White Cedar-Trembling Aspen-White Spruce-Twinflower Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM7		
CV22	201028	Trembling Aspen-White Birch-White Spruce-Dwarf Raspberry Forest	Trembling Aspen-White Birch-White Spruce-Dwarf Raspberry Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM8		

CV23	201029	White Birch-White Pine-Trembling Aspen-Beaked Hazel-Mountain Maple Forest	White Birch-White Pine-Trembling Aspen-Beaked Hazel-Mountain Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM8		
CV24	201030	Trembling Aspen-White Birch-Jack Pine-Black Spruce-Bush Honeysuckle-Blueberry-Feathermoss Forest	Trembling Aspen-White Birch-Jack Pine-Black Spruce-Bush Honeysuckle-Blueberry-Feathermoss Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM8		
CV25	201031	Trembling Aspen-White Birch-White Spruce-White Pine-Red Pine-Beaked Hazel-Mountain Maple Forest	Trembling Aspen-White Birch-White Spruce-White Pine-Red Pine-Beaked Hazel-Mountain Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM8		
CV26	201032	Balsam Fir-White Spruce-Balsam Fir Shrub-Bush Honeysuckle Forest	Balsam Fir-White Spruce-Balsam Fir Shrub-Bush Honeysuckle Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM9		
CV27	201033	White Pine-White Birch-Red Oak-Largetooth Aspen-Braken Fern Forest	White Pine-White Birch-Red Oak-Largetooth Aspen-Braken Fern Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM2		
CV28	201034	Largetooth Aspen-White Pine-Red Oak-Red Maple-Blueberry-Wintergreen Forest	Largetooth Aspen-White Pine-Red Oak-Red Maple-Blueberry-Wintergreen Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM2		
CV29	201035	White Pine-Red Pine-Beaked Hazel-Braken Fern-Bush Honeysuckle Forest	White Pine-Red Pine-Beaked Hazel-Braken Fern-Bush Honeysuckle Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOC	FOC1		
CV3	201009	Sugar Maple-Red oak-Beech/Striped Maple Forest	Sugar Maple-Red oak-Beech/Striped Maple Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD5		
CV30	201036	Red Pine-White Pine-Jack Pine-Blueberry-Feathermoss Forest	Red Pine-White Pine-Jack Pine-Blueberry-Feathermoss Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOC	FOC1		
CV31	201037	Red Pine-White Pine-Jack Pine-Largetooth Aspen-White Pine Shrub-Wintergreen Forest	Red Pine-White Pine-Jack Pine-Largetooth Aspen-White Pine Shrub-Wintergreen Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM2		
CV32	201038	White Pine-Red Pine-Blueberry-Feathermoss-Lichen Forest	White Pine-Red Pine-Blueberry-Feathermoss-Lichen Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOC	FOC1		
CV33	201039	Jack Pine-Blueberry-Feathermoss-Lichen Forest	Jack Pine-Blueberry-Feathermoss-Lichen Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOC	FOC1		
CV34	201040	White Pine-Red Oak-Bracken Fern-Wintergreen Forest	White Pine-Red Oak-Bracken Fern-Wintergreen Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM2		
CV35	201041	Black Spruce-Tamarack-White Cedar-Goldthread-Sphagnum Forest	Black Spruce-Tamarack-White Cedar-Goldthread-Sphagnum Forest	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWC	SWC4		
CV36	201042	Black Spruce-White	Black Spruce-White	Wetland	GNR		SNR	Central Ontario	SW	SWC	SWC4		

		Cedar-Balsam Fir-Northern Wild Raisin-Sphagnum Forest	Cedar-Balsam Fir-Northern Wild Raisin-Sphagnum Forest					Forest Ecosystems Classification					
CV37	201043	Black Spruce-White Cedar-Balsam Fir-Mountain Maple-Creeping Snowberry Forest	Black Spruce-White Cedar-Balsam Fir-Mountain Maple-Creeping Snowberry Forest	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWC	SWC4		
CV38	201044	White Cedar-Goldthread-Sphagnum Forest	White Cedar-Goldthread-Sphagnum Forest	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWM			
CV39	201045	Black Spruce-Jack Pine-Trembling Aspen-White Birch-Blueberry-Feathermoss Forest	Black Spruce-Jack Pine-Trembling Aspen-White Birch-Blueberry-Feathermoss Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOM	FOM9		
CV4	201010	Sugar Maple-White Birch-Basswood/Striped Maple-Herb Rich Forest	Sugar Maple-White Birch-Basswood/Striped Maple-Herb Rich Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD5		
CV40	201046	Black Spruce-Jack Pine-Red Pine-White Pine-Blueberry-Feathermoss Forest	Black Spruce-Jack Pine-Red Pine-White Pine-Blueberry-Feathermoss Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOC	FOC5		
CV41	201047	Black Spruce-Tamarack-Labrador Tea-Sphagnum Forest	Black Spruce-Tamarack-Labrador Tea-Sphagnum Forest	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWC	SWC4		
CV5	201011	Sugar Maple-Red Oak-Basswood-Ironwood/Leatherwood Forest	Sugar Maple-Red Oak-Basswood-Ironwood/Leatherwood Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD5		
CV6	201012	Red Oak-Sugar Maple/Ironwood-Fly Honeysuckle Forest	Red Oak-Sugar Maple/Ironwood-Fly Honeysuckle Forest	Terrestrial	GNR		SNR	Central Ontario Forest Ecosystems Classification	FO	FOD	FOD2		
CV7	201013	Black Ash-Hardwoods/Herb Rich Forest	Black Ash-Hardwoods/Herb Rich Forest	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWD			
CV8	201014	White Cedar-Hardwoods/Fragrant Bedstraw-Herb Rich Forest	White Cedar-Hardwoods/Fragrant Bedstraw-Herb Rich Forest	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWM			
CV9	201015	White Cedar-Hardwoods/Dwarf Raspberry-Mountain Maple-Herb Rich	White Cedar-Hardwoods/Dwarf Raspberry-Mountain Maple-Herb Rich	Wetland	GNR		SNR	Central Ontario Forest Ecosystems Classification	SW	SWM			
DWT1-1	194127	Bur Oak - Saskatoon Berry Dry Deciduous Woodland Type	Bur Oak - Saskatoon Berry Dry Deciduous Woodland Type	Terrestrial	G3		S2	Ontario Natural Heritage Information Centre	DW	DWT	DWT1		
FEO1-1	183749	Twig-rush Graminoid Fen Type	Twig-rush Graminoid Fen Type	Wetland	G3Q		S3?	Ontario Natural Heritage Information Centre	FE	FEO	FEO1		
FEO1-2	183604	Slender Sedge Graminoid Fen Type	Slender Sedge Graminoid Fen Type	Wetland	G4G5		S5	Ontario Natural Heritage Information Centre	FE	FEO	FEO1		

* Not a complete list.