

Land Information Ontario Data Description

Wildlife Concentration Area Observation, Provincially Tracked

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LIO Class Description

Wildlife Concentration Area Observation, Provincially Tracked

Class Short Name: WCAOBSPT

Version Number: 1

Class Description:

A discrete observation at a known location and date of a Wildlife Concentration Area obtained from a field survey, orthophoto interpretation, or historical account.

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.

Metadata URL:

Tables in LIO Class:

Wildlife Concentration Area Observation, Provincially Tracked

WCA_OBSERVATION_FT

Details recorded for a Wildlife Concentration Area (WCA) observation.

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.				
WCA_ELEMENT_ID	NUMBER(13,0)	Yes	ELEMENT_ID	17129, 17132, 17135, 17138, 17141, 193991, ... (See WCA_LIST table)
A business value that uniquely identifies a specific species, or an assemblage of species such as plant communities (PC) and wildlife concentration areas (WCA) according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database field: ELEMENT_SUBNATIONAL_ID				
OBSERVER_ORGANIZATION_TYPE	VARCHAR2(20)	No	OBS_ORG_T	Academic, Government, NGO, Public, Private Sector, Other
The high-level classification that the Observer Organization belongs to, described as follows: --- Academic: University or College --- NGO: Non-Governmental Organization --- Public: General public. -- - Private Sector: Privately-owned company e.g. Forest Industry --- Government: Federal, Provincial, Municipal agencies. --- Other: used to identify an Organization Type that is not listed in the available values. Users should describe the Type in the "Observer Organization Name" field.				
OBSERVER_ORGANIZATION_NAME	VARCHAR2(100)	No	OBS_ORG	
The name of the organization or agency that the observer is affiliated with. For example, "Toronto Field Naturalists". If the Observer Organization Type is Public then a value of "Public" should be entered in this field. ----- Rule: Where required, the name of the person who made the observation can be identified in the Observer Name Secure table. Refer to User Guide for more details.				
OBSERVATION_DATE	VARCHAR2(20)	Yes	OBS_DATE	
The date that the WCA was observed. --- Refer to User Guide for date formats.				
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.				
REPRESENTATION_ACCURACY_VALUE	VARCHAR2(10)	No	ACCURACY	Very High, High, Medium, Low, Very Low, Unknown

Representation Accuracy (RA) varies on the basis of area observed to be occupied by the WCA 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.

REPRESENTATION_ACCURACY_COMM	VARCHAR2 (1000)	No	ACC_COMM	
Comments related to the value entered in the Representation Accuracy Value.				
WCA_OBSERVATION_DETAILS	VARCHAR2 (2000)	No	DETAILS	
Detailed description of what was observed of the Wildlife Concentration Area (WCA). Refer to User-Guide for more details.				
HABITAT_DESCR	VARCHAR2 (2000)	No	HAB_DESCR	
Text describing the surrounding habitat.				
THREATS	VARCHAR2 (2000)	No	THREATS	
Text about possible sources of danger to the observed WCA.				
MANAGEMENT_COMMENTS	VARCHAR2 (2000)	No	MGMT_COMM	
Comments about the management of the observed WCA at this location.				
LAND_USE_COMMENTS	VARCHAR2 (2000)	No	L_USE_COMM	
Comments about the level of protection provided or required for the site.				
OBSERVATION_COMMENTS	VARCHAR2 (2000)	No	OBS_COMM	
Any additional general comments about this observation.				
ADDITIONAL_MATERIAL_IND	VARCHAR2(3)	No	ADDIT_MAT	Yes, No
Indicates if additional material about the observation was supplied to NHIC. ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table.				
PHOTO_IND	VARCHAR2(3)	No	PHOTO_IND	Yes, No
Indicates if a photograph was taken of the WCA observed. ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table. The Document Type should = Photograph.				
MAP_IND	VARCHAR2(3)	No	MAP_IND	Yes, No
Indicates if the observation site was sketched onto a hardcopy map e.g. Ontario Base Map (OBM), 1:50,000 National Topographic Series (NTS). ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table. The Document Type should = Map-NTS, Map-OBM, or Map-Other.				
SEARCH_TYPE_FLG	VARCHAR2(11)	No	SRCH_TYPE	Intentional, Incidental
A flag to indicate whether the observation was intentional or incidental in origin within the following context: ----- Intentional: The observation record is the result of a deliberate effort to find the subject WCA. --- Incidental: The observation record is the result of an unplanned or incidental encounter with the subject WCA.				
SEARCH_EFFORT	VARCHAR2(250)	No	SRCH_EFF	
The search effort expended for a given WCA observation. May include qualitative comments or a quantitative assessment (e.g. number of person-hours).				
SEARCH_ADEQUACY	VARCHAR2 (1000)	No	SRCH_ADEQ	
Comments on variables that might have affected the outcome of the search, including thoroughness, habitat, methods, environment, observer experience, ease of detection, and timing.				

SEARCH_RESULT_IND	VARCHAR2(3)	No	SRCH_RES	Yes, No
Indicates if the WCA being searched for was found during this visit. Where the value is: Yes - The WCA or evidence of the WCA was found, resulting in a positive observation. ----- No - No sign of the WCA was found, resulting in a negative observation. An example of a valid negative observation would be returning to a site where the WCA had been seen regularly in the past, but no sign of it was found during the current visit.				
PROJECT_ID	NUMBER(13,0)	No	PROJECT_ID	
Foreign key link from SPECIES_PROJECT.OGF_ID ----- Allows a user to make a reference to a project that the observation is associated to.				
NHIC_OBSERVATION_IDENT	VARCHAR2(20)	No	OBS_IDENT	
This field is intended for NHIC Use Only ----- An identifier populated by NHIC for each observation e.g. AY123.				
NHIC_REVIEW_STATUS	VARCHAR2(40)	No	REV_STATUS	Pending, EO Candidate, Processed - Linked to EO, Processed - Not Linked to EO, Processed - Observation Not Accepted
This field is intended for NHIC Use Only ----- The status of NHIC review and import of the observation into an Element Occurrence (EO) into the NHIC database. These are described as: --- Pending: All observations, submitted by field staff (the default value for the field when a record is entered) --- EO Candidate: A record has had a preliminary NHIC review and will be evaluated as part of an Element Occurrence (EO) at a later date. --- Processed - Linked to EO: Will also have EO_ID populated as reference. --- Processed - Not Linked to EO: Valid observation of Provincially Tracked WCA, but does not meet EO specs --- Processed - Observation Not Accepted: May be for a number of reasons, insufficient data, questionable record etc. Rationale to be provided in another field. In some circumstances these may be promoted into the other "processed" categories with the addition of more information. ----- DEFAULT: Pending ----- Refer to User Guide for additional details.				
NHIC_IMPORT_DATE	DATE	No	IMPORT_DT	
This field is intended for NHIC Use Only ----- The calendar date that the field reported WCA observation was evaluated by NHIC. ----- Note: This field will only be populated if the Import Status is other than "Pending".				
NHIC_IMPORT_COMMENTS	VARCHAR2 (1000)	No	IMPORT_COM	
This field is intended for NHIC Use Only ----- Additional comments and rationale by NHIC staff describing the import status of the reported WCA observation.				
SENSITIVITY_CLASS	VARCHAR2(15)	Yes	SENS_CLASS	High, Medium, Low, Non- Sensitive
This field is required in Simple Data Classes where features will be flagged as Sensitive. ----- Default: Medium				
SENSITIVITY_DATE	DATE	No	SENS_DATE	
The date that the sensitivity classification was established.				
SENSITIVITY_RATIONALE	VARCHAR2(50)	Yes	SENS_RAT	VTE Species, Data Provider Agreement, No Restriction Needed, Protect

Feature
Type,
Protect
Single
Feature,
Legislative
or Legal
Reqt, Other

This field is required in Simple Data Classes. ----- The primary reason for the object's information sensitivity classification. ----- Default for Species at Risk (SAR): Legislative or Legal Reqt

SENS_RATIONALE_OTHER_DESCR	VARCHAR2(250)	No	SENS_DESCR
Description of the reason(s) for the information classification when "Other" is selected as the rationale.			

DATA_RESTRICTION_IND	VARCHAR2(3)	Yes	RESTR_IND	Yes, No
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_RESTRICTION_RATIONALE	VARCHAR2(254)	No	RESTR_RAT
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 WCA, 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).			

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.			

SHAPE	SDO_GEOMETRY	No	SHAPE
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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	Yes	TITLE	

(254)

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 (80)	No	AUTHOR
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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	
The scientific name of the organism which identifies the genus and species. ----- NHIC database field: SCI_NAME				
COM_NAME	VARCHAR2 (75)	No	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 (40)	No	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 (15)	Yes	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 (1)	No	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 (1)	No	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 (1)	No	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 (15)	No	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	SUBORDER
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(100)

In biology, suborder is a taxonomic rank intermediate between order and infraorder.

(100)

INFRAORDER

VARCHAR2

	No	INFRAORDER	
In biology, infraorder a taxonomic rank intermediate between suborder and superfamily.			
SUPERFAMILY	VARCHAR2 (100)	No	SUPERFAMIL
In biology, superfamily is a taxonomic rank intermediate between infraorder and family.			
FAMILY_ID	NUMBER (13,0)	No	FAMILY_ID
The NatureServe Identifier assigned a each species nomenclature Family. ----- NHIC database field: FAM_ID			
FAMILY	VARCHAR2 (100)	No	FAMILY
In biology, family is a taxonomic rank between superfamily and subfamily. ----- NHIC database field: FAMILY			
FAMILY_NAME	VARCHAR2 (20)	No	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 (100)	No	SUBFAMILY
In biology, subfamily is a taxonomic rank intermediate between family and tribe.			
TRIBE	VARCHAR2 (100)	No	TRIBE
In biology, tribe is a taxonomic rank intermediate between subfamily and genus.			
GENUS_ID	NUMBER (13,0)	No	GENUS_ID
The NatureServe Identifier assigned a each species nomenclature Genus. ----- NHIC database field: GENUS_ID			
GENUS	VARCHAR2 (100)	No	GENUS
In biology, genus is a taxonomic rank between tribe and subgenus. ----- NHIC database field: GENUS			
GENUS_NAME	VARCHAR2 (100)	No	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 (100)	No	SUBGENUS
In biology, subgenus is a taxonomic rank intermediate between genus and species.			
SPECIES	VARCHAR2 (100)	No	SPECIES
In biology, a species is a taxonomic rank between subgenus and subspecies.			
SUBSPECIES	VARCHAR2 (100)	No	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.			

(100)

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

SPECIES_OBS_DETAIL

Observation details which can include an actual sighting or evidence of the species or a group of individuals of the same species.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
System-generated object identifier, unique at the application level.				
CLASS_SHORT_NAME	VARCHAR2 (11)	Yes	CLASS_NAME	
The unique LIO database short name assigned to every Data Class. For example: SPEOBSPT = Species Observation, Provincially Tracked SPEOBSLT = Species Observation, Locally Tracked				
SPC_REC_CREATOR_GROUP	VARCHAR2 (100)	Yes	CREATOR_GR	Caribou Program, Invasive Species Program, MNR - OTHER, MNR District - Algonquin Park, MNR District - Aurora, MNR District - Aylmer, ... (See SPECIES_REC_CREATOR_GROUP_LIST table)
Identifies the group responsible for creating the species record using the Corporate Editor. ----- Field Purpose: Permits the filtering of species data by their record creator origin. For example, finding records created by Parks Ontario, NHIC, Caribou Program, Guelph District etc.				
OBSERVER_ORGANIZATION_TYPE	VARCHAR2 (20)	No	OBS_ORG_T	Academic, Government, NGO, Public, Private Sector, Other
The high-level classification that the Observer Organization belongs to, described as follows: Academic: University or College --- NGO: Non-Governmental Organization --- Public: General public. --- Private Sector: Privately-owned company e.g. Forest Industry --- Government: Federal, Provincial, Municipal agencies. --- Other: used to identify an Organization Type that is not listed in the available values. Users should describe the Type in the Observer Organization Name field.				
OBSERVER_ORGANIZATION_NAME	VARCHAR2 (100)	No	OBS_ORG	
The name of the organization or agency that the observer is affiliated with. For example, "Toronto Field Naturalists". If the Observer Organization Type is "Public" then a value of "Private Citizen" should be entered in this field. ----- Rule: Where required, the name of the person who made the observation can be identified in the Observer Name Secure table. Refer to User Guide for more details.				
OBSERVATION_DATE_FLG	VARCHAR2 (15)	Yes	DATE_FLG	Actual, Approximate, Not Available
Flag indicating if the observation date is Actual, Approximate or Not Available. ----- Default: Actual				
OBSERVATION_DATE	VARCHAR2 (20)	Yes	OBS_DATE	
The date that the species was observed ----- Refer to user guide for recommended best practices regarding the date format for values stored in this field.				
OBSERVATION_START_TIME	VARCHAR2 (8)	No	START_TIME	
The time of day the observation began. The value is stored using the Long Time format: hh:mm:ss (24-hour clock). For example: 17:20:23.				
OBSERVATION_END_TIME	VARCHAR2 (8)	No	END_TIME	
The time of day the observation ended. The value is stored using the Long Time format: hh:mm:ss (24-hour clock). For example: 17:20:23.				

LOCATION_NAME

VARCHAR2 No

LOCATION

(254)

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.				
SPECIES_SEARCH_AREA_ID	NUMBER (13,0)	No	AREA_ID	
Foreign key reference to the parent Search Area table record. --- System-generated object identifier, unique at the application level.				
SPECIES_DATA_CAPTURE_EVENT_ID	NUMBER (13,0)	No	EVENT_ID	
Foreign key reference to the parent Species Data Capture Event table record. This field is populated in the event that a Species Data Capture Event warrants the creation of a new Species Observation. --- System-generated object identifier, unique at the application level.				
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 Observation, 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 describing the surrounding habitat.				
LAND_TYPE	VARCHAR2 (30)	No	LAND_TYPE	Island, Peninsula, Mainland, Wetland Complex, Waterbody
A general land description that is used as a search key for wildlife management purposes.				
FOREST_AGE	VARCHAR2 (30)	No	FOREST_AGE	Less than 10 Years, 11-40 Years, 41-100 Years, 101+ Years
A search key used in wildlife management work which describes the age of the forest in the area where data is being collected. Standard list: Less than 10 Years: e.g. cutover or burn. --- 11-40 Years: often referred to as a ?young? forest. -- 41-100 Years: often referred to as a ?mature? forest. --- 101+ Years: often referred to as an ?old? forest.				
FOREST_TYPE	VARCHAR2 (30)	No	FOREST_TYP	Dense, Open, Sparse
The type of forest in the area where a species observation occurs. Permissible values and context are as follows: Dense : (>= 60% cover) Open : (25-59% cover) Sparse : (10-24% cover).				

FOREST_COVER	VARCHAR2 No (10)	FOREST_COV	Conifer, Mixed, Hardwood
A general description of the dominating forest cover type where the species observation took place - Conifer, Hardwood or Mixed (both Hardwood and Softwood).			
FOREST_DOM_SPC_CODE	VARCHAR2 No (2)	FOREST_DOM	Bf, Bw, CE, Pj, Po, Sb, Sw
The two-character code for a dominant forest species in the area where an observation was recorded. A standard list of permissible values include: - Bf (Balsam Fir) - Bw (White Birch). - CE (Eastern White Cedar) - Pj (Jack Pine) - Po (Poplar) - Sb (Black Spruce) - Sw (White Spruce)			
OBSERVATION_SOURCE	VARCHAR2 No (100)	OBS_SOURCE	
Describes the source of the observation. For example: "Found during site visit by MNR Vineland Office staff".			
SEARCH_TYPE_FLG	VARCHAR2 No (11)	SRCH_TYPE	Intentional, Incidental
A flag to indicate whether the species observation was intentional or incidental in origin within the following context: Intentional: The observation record is the result of a deliberate effort to find the subject species. --- Incidental: The observation record is the result of an unplanned or incidental encounter with the subject species.			
SEARCH_EFFORT	VARCHAR2 No (250)	SRCH_EFF	
The search effort expended for a given species observation. May include qualitative comments or a quantitative assessment (e.g. number of person-hours).			
SEARCH_ADEQUACY	VARCHAR2 No (1000)	SRCH_ADEQ	
Comments on variables that might have affected the outcome of the search, including thoroughness, habitat, methods, environment, observer experience, ease of detection, and timing.			
SEARCH_RESULT_IND	VARCHAR2 No (3)	SRCH_RES	Yes, No
A "Yes" or "No" indicator if the species being searched for was found during this visit. Where the value is: Yes - The species or evidence of the species was found, resulting in a positive species observation. ----- No - No sign of the species was found, resulting in a negative observation. An example of a valid negative observation would be returning to a site where the species had been seen regularly in the past, but no sign of it was found during the current visit.			
IDENTIFICATION_PROBLEM_IND	VARCHAR2 No (3)	ID_PROBLEM	Yes, No
A "Yes" or "No" indicator if there was a problem identifying the species.			
IDENTIFICATION_PROBLEM_DESCR	VARCHAR2 No (2000)	ID_PROB_D	
Free form text providing details about an identification problem in the field.			
MONITORED_SUBJ_SETUP_IND	VARCHAR2 No (3)	MON_SETUP	Yes, No
A "Yes" or "No" indicator whether an animal in this observation has been captured and will be monitored by a device. ----- Rule: If "Yes", then animal and monitoring device details should be documented in the SPECIES MONITORED SUBJECT table.			
ADDITIONAL_MATERIAL_IND	VARCHAR2 No (3)	ADDIT_MAT	Yes, No
A "Yes" or "No" indicator if additional material about the observation was supplied to NHIC. ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table.			
PHOTO_IND	VARCHAR2 No (3)	PHOTO_IND	Yes, No
A "Yes" or "No" indicator if a photograph was taken of the specimen observed. ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table. The Document Type should = Photograph.			
MAP_IND	VARCHAR2 No (3)	MAP_IND	Yes, No

A "Yes" or "No" indicator if the observation site was sketched onto a hardcopy map e.g. Ontario Base Map (OBM), 1:50,000 National Topographic Series (NTS). ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table. The Document Type should = Map-NTS, Map-OBM, or Map-Other.

THREATS	VARCHAR2 No (2000)	THREATS	
Free form text about possible sources of danger to the existence of the species at the site.			
LAND_USE_COMMENTS	VARCHAR2 No (2000)	L_USE_COMM	
Free form text about current land use practices around and on the site.			
MANAGEMENT_COMMENTS	VARCHAR2 No (2000)	MGMT_COMM	
Comments about the management of the feature at this location.			
PROTECTION_COMMENTS	VARCHAR2 No (2000)	PROT_COMM	
Comments about the level of protection provided or required for the site.			
OBSERVATION_MAPPABLE_IND	VARCHAR2 No (3)	MAPPABLE	Yes, No
A "Yes" or "No" indicator if the observation should be displayed on map products. Intended to exclude the display of historical observations that are too general in their spatial co-ordinates or multiples of observations displaying at the same co-ordinates.			
SPECIMEN_TAKEN_IND	VARCHAR2 No (3)	SPECIMEN	Yes, No
A "Yes" or "No" indicator whether one or more specimens were collected during the observation. ----- Rule: If "Yes", users should create a record in the "Species Specimen" table. ----- Default = "No"			
SPECIMEN_DETERMINED_BY	VARCHAR2 No (200)	DETERMINED	
The person who provided the scientific identification of the specimen (if different than the observer). The name and position of the individual should be documented in this field. For example, "Steve Asquith, Biologist ? Shepperton Labs". -- --- Note: As this task is being performed in a professional capacity, identifying the person is compliant to the Freedom of Information and Protection of Privacy Act (FIPPA), and is not considered to be personal information.			
DATA_RESTRICT_IND	VARCHAR2 Yes (3)	RESTR_IND	Yes, No
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 (254)	RESTR_RAT	
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)			
OBSERVATION_COMMENTS	VARCHAR2 No (2000)	OBS_COMM	
Any additional general comments about the observation. ----- Note: Where applicable, users should use this field to store details rather than the GEOG_UNIT General Comments field.			
DEGREE_OF_POP_EST	VARCHAR2 No (15)	POP_EST	Established, Introduced, Observed, Unknown
Reserved for Invasive Species only. ----- A measure of the persistence of an invasive species at the site, described as follows: --- Established ? species is able to survive, is reproducing in its introduced location and has spread widely. --- Introduced ? In an early stage of invasion, has recently been introduced, may be reproducing and is restricted in its geographic range. --- Observed ? Believed to be a single individual or an aberrant observation; unlikely to survive and/or			

reproduce. --- Unknown ? the stage of invasion and the length of time the species has been present is not known; data deficient.

SPECIES_SIGHTING_FLG	VARCHAR2 (25)	No	SIGHTING	Yes - Count Available, Yes - Count Not Available, No
Flag indicator if a species was sighted during the observation. The purpose of this field is to prompt the user to provide a count of the individual(s) seen during the observation. ----- Rules are as follows: If "Yes - Count Available": MANDATORY attributes for Animals - Total Count Individuals (must be > 0) - Total Count Accuracy Flag --- OPTIONAL for Plants (as counts may be qualitative e.g. dense clumps, carpets) - Total Count Individuals (must be > 0) - Total Count Accuracy Flag --- OPTIONAL attributes for Animals - Count of Adults Unknown Sex - Count of Adult Males - Count of Adult Females - Count of Young - Count of Unknown Age or Sex - Life Stage Sex and Count Comments --- OPTIONAL attribute for Plants - Life Stage Sex and Count Comments ----- If "Yes - Count Not Available": Often found with historical information where an animal was sighted, but an actual count was not documented or is vague. In this instance, the count fields do not need to be populated. ----- If "No": The count fields do not need to be populated. ----- Default: "No"				
TOTAL_COUNT_ACC_FLG	VARCHAR2 (8)	No	COUNT_ACC	Estimate, Actual
For Plants and Animals: --- Flag indicating whether the total number of individuals documented for a species is actual or estimated true observation count.				
TOTAL_COUNT_INDIVIDUALS	NUMBER (7,0)	No	TOT_COUNT	
For Plants and Animals: --- Where applicable, the estimated or observed total number of individuals documented for the observation.				
COUNT_OF_ADULTS_UNKNOWN_SEX	NUMBER (4,0)	No	UNK_SEX	
This field is only to be populated when the observed species is an animal. --- Number of adults of unknown sex in the animal sighting.				
COUNT_OF_ADULT_MALES	NUMBER (4,0)	No	AD_MALES	
This field is only to be populated when the observed species is an animal. --- Number of adult males in the animal sighting.				
COUNT_OF_ADULT_FEMALES	NUMBER (4,0)	No	AD_FEMALES	
This field is only to be populated when the observed species is an animal. --- Number of adult females in the animal sighting.				
COUNT_OF_YOUNG	NUMBER (4,0)	No	YOUNG	
This field is only to be populated when the observed species is an animal. --- Number of young in the animal sighting.				
COUNT_UNKNOWN_AGE_OR_SEX	NUMBER (4,0)	No	UNK_AGE_SX	
This field is only to be populated when the observed species is an animal. --- Number of animals of unknown age or sex in an animal sighting.				
LIFE_STAGE_SEX_AND_COUNT_CMT	VARCHAR2 (254)	No	LIFE_STAGE	
For Plants and Animals: --- Comments about the sex (where applicable), life stage(s) and counts observed during the species sighting. --- Example 1 (Plants): "Of the 50 Trilliums observed, 45 were in a flowering stage." --- Example 2 (Animals): "Mature female Snapping Turtle laid approximately 10 eggs". ----- Note: This field can also be used to describe plants where individual counts are subjective or difficult to determine e.g. - Small Dense Clumps - Small Patches or Cushions - Small Colonies or Carpets - Large, almost pure stands				
NHIC_OBSERVATION_IDENT	VARCHAR2 (20)	No	OBS_IDENT	
This field is intended for NHIC Use Only ----- An identifier populated by NHIC for each observation e.g. AY123.				
NHIC_REVIEW_STATUS	VARCHAR2 (40)	No	REV_STATUS	Pending, EO Candidate, Processed - Linked to EO, Processed - Not Linked to EO, Processed - Observation Not Accepted

This field is intended for NHIC Use Only. Refer to user-guide for additional details. ----- The status of NHIC review and import of the observation into an Element Occurrence (EO) into the NHIC database. These are described as: --- Pending: All observations, submitted by field staff (the default value for the field when a record is entered) --- EO Candidate: A record has had a preliminary NHIC review and will be evaluated as part of an Element Occurrence (EO) at a later date. --- Processed - Linked to EO: Will also have EO_ID populated as reference. --- Processed - Not Linked to EO: Valid observation of Provincially Tracked Species, but does not meet EO specs --- Processed - Observation Not Accepted: May be for a number of reasons, insufficient data, questionable record etc. Rationale to be provided in another field. In some circumstances these may be promoted into the other "processed" categories with the addition of more information. ----- DEFAULT: Pending

NHIC_IMPORT_DATE	DATE	No	IMPORT_DT
This field is intended for NHIC Use Only ----- The calendar date that the field reported species observation was evaluated by NHIC. ----- Note: This field will only be populated if the Import Status is other than "Pending".			
NHIC_IMPORT_COMMENTS	VARCHAR2 (1000)	No	IMPORT_COM
This field is intended for NHIC Use Only ----- Additional comments and rationale by NHIC staff describing the import status of the reported species observation.			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			

SPECIES_PROJECT

A project designed to collect observations of a particular species. Metadata identifying the parties involved and the start and end dates of a project is captured.

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.				
PROJECT_NAME	VARCHAR2 (100)	Yes	PROJ_NAME	
Identifies the project associated with species data collection.				
PROJECT_START_DATE	DATE	Yes	START_DATE	
The date when the project began (YYYY-MM-DD).				
PROJECT_END_DATE	DATE	No	END_DATE	
The date when the project ended (YYYY-MM-DD).				
STATUS	VARCHAR2 (11)	Yes	STATUS	Completed, In progress, On hold, Planned
The current status of the project, whether it is planned, in progress, completed or on hold.				
LEAD_ORGANIZATION	VARCHAR2 (100)	Yes	LEAD_ORG	
The organization or organizational unit in which the data authority resides/reports and which has assumed accountability for the collection of the data (Typically this is an OMNR Program Area).				
PROJECT_SPONSOR	VARCHAR2 (100)	Yes	SPONSOR	
The Sponsor providing funding and direction for the project. Examples: Northern Boreal Initiative, Forest Management Values Data Collection, Species at Risk, Ontario Parks, Moose Survey, Research, Other (University/NGO).				
PROJECT_DATA_AUTHORITY	VARCHAR2 (100)	Yes	DATA_AUTH	
The full name of the person who knows how the data was collected for the project. ----- Entries should be made using standard form (Last Name, comma, First Name) e.g. Doe, John. Additional alternate names should be separated by a semi-colon e.g. Doe, John; Doe, Jane. ----- To comply				

with the Freedom of Information and Protection of Privacy Protection Act (FIPPA) guidelines, the names included in this field should only be used to identify persons working in a professional capacity for, or on behalf of the Ontario Ministry of Natural Resources (OMNR).

GENERAL_COMMENTS	VARCHAR2 (2000)	No	GNL_CMT
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General comments.

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

SPECIES_PROJECT_DOCUMENT_REF

Intersect table between Project and Document Reference tables. It permits the association of several different document references to a feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
SPECIES_PROJECT_ID	NUMBER (13,0)	Yes	PROJECT_ID	

Foreign Key to parent Species Project table record. ----- System generated identifier, unique at the application level.

SPECIES_DOCUMENT_REFERENCE_ID	NUMBER (13,0)	Yes	DOC_REF_ID
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Foreign Key to the parent Species Document Reference 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.

WCA_LIST

A lookup list of Wildlife Concentration Area (WCA).

Column Name	Column Type	Mandatory	Short Name	Valid Values
WCA_ELEMENT_ID	NUMBER (13,0)	Yes	ELEMENT_ID	

A business value that uniquely identifies a specific species, or an assemblage of species such as plant communities (PC) and wildlife concentration areas (WCA) according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database field: ELEMENT_SUBNATIONAL_ID

ELEMENT_CODE	VARCHAR2 (254)	No	ELEMENT_C
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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

COMMON_NAME	VARCHAR2 (75)	Yes	COM_NAME
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The common name assigned to a Wildlife Concentration Area. ----- NHIC database field: COM_NAME

WCA_GENERAL_DESCR	VARCHAR2 (2000)	No	GEN_DESCR
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Text describing the characteristics for a Wildlife Concentration Area. ----- NHIC database field: Currently does not exist so will need to be added to Biotics

REC_SENSITIVITY_CLASS	VARCHAR2 (15)	Yes	REC_SENS	Low, Medium, Non-Sensitive
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Identifies the recommended Data Sensitivity Class for a WCA 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 WCA 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 bat colony location would be controlled, whereas a mapped range for bat colonies would not require the same level of data protection as it covers a large geographical area. --- Note-2: the recommended sensitivity for a WCA will be displayed to the user when they choose a WCA from the WCA Master List. It will up to the discretion of the editor to manually flag the feature with the appropriate sensitivity class.

NHIC_TRACKED	VARCHAR2 (1)	No	NHIC_TRACK Y, N
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A "Yes" or "No" indicator assigned by NHIC if the identified WCA is provincially tracked or not. ----
- The value is stored as a single character where: Y = Yes N = No ----- Note: WCA?s 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	VARCHAR2 (1)	Yes	NHIC_SENS Y, N
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A "Yes" or "No" indicator assigned by NHIC if the identified WCA is assigned a higher sensitivity within the listing of rare WCA?s e.g. Bat Colony. ----- 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 WCA?s and individual element occurrences marked as sensitive. ----- NHIC database field: SENS_IND

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

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

WCA_OBS_AND_SPECIES_DOC_REF

Intersect table between WILDLIFE CONCENTRATION AREA OBSERVATION and SPECIES DOCUMENT REFERENCE which allows multiple referencing of WCA Observations 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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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.

WCA_OBSERVATION_ID	NUMBER (13,0)	Yes	WCA_OBS_ID	
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WCA Observation table record ID that the referenced document is associated to. ----- 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.

WCA_OBS_AND_WCA_OCC

Intersect table between WCA Observation and WCA Occurrence tables. A WCA occurrence is defined from one or more WCA observations. ----- Rule: The association between a WCA Occurrence feature and a WCA 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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WCA_OBSERVATION_ID	NUMBER (13,0)	Yes	WCA_OBS_ID	
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System generated identifier, unique at the application level.

WCA_OCCURRENCE_ID	NUMBER (13,0)	Yes	WCA_OCC_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.

WCA_OBS_NAME_SECURE

This secure table identifies the name of the individual or party who reported or has knowledge of the observation. This table is ¿Secure¿ in order to ensure that access to this information is limited to authorized parties only and is compliant to the Freedom of Information and Protection of Privacy Act (FIPPA) guidelines.

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

OBSERVER_NAME	VARCHAR2 (100)	Yes	OBSERVER
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Where it is known, the full name of the person(s) who reported or have knowledge of the observation.

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

WCA_OBS_NOTABLE_SPECIES

A notable or tracked species associated with a specific Wildlife Concentration Area (WCA) observation.

WCA_OBS_ORIGINAL_COORD

Stores any positional-type coordinates that were documented at the time the observation was made. Coordinates are often included with historical observation records.

Column Name	Column Type	Mandatory	Short Name	Valid Values
WCA_OBSERVATION_ID	NUMBER (13,0)	Yes	WCA_OBS_ID	
System generated identifier, unique at the application level.				
ORIG_COORDS_SOURCE	VARCHAR2 (25)	Yes	SOURCE	GPS, NTS, OBM, On-screen Digitizing, Other
Identifies the original source used to capture the coordinates required to map this feature. ----- Note: If "Other" is selected, it should be described in the "Original Coordinates Comment" field.				
HORIZONTAL_DATUM	VARCHAR2 (10)	No	H_DATUM	NAD27, NAD27adj74, NAD83, WGS84
Identifies the reference system used for defining the coordinates of points. There are four common horizontal datum systems used in Ontario: WSG84, NAD83, NAD27, NAD27 with 1974 adjustment. The datum models the shape of the earth.				
UTM_ZONE	NUMBER (2,0)	No	UTM_ZONE	15, 16, 17, 18
A geographic reference zone within the province. Ontario is divided into 4 Universal Tranverse Mercator (UTM) zones (15 to 18).				
UTM_EAST	NUMBER (9,3)	No	UTM_EAST	
The distance, in metres, from the central meridian of the zone. The central meridian receives a false easting of 500,000 metres.				
UTM_NORTH	NUMBER (10,3)	No	UTM_NORTH	
The distance, in metres, from the equator.				
LATITUDE	NUMBER (10,5)	No	LATITUDE	
The latitude of the feature in decimal degrees. For example: 79.12345				
LONGITUDE	NUMBER (10,5)	No	LONGITUDE	
The longitude of the centroid of the polygon in decimal degrees. For example: -80.12345 ----- Note: In Ontario, the longitude shall always be stored as a negative value as seen in the example above.				
ORIG_COORDS_COMMENT	VARCHAR2 (200)	No	COORDS_COM	
Comments about the coordinates and/or source including: - Further details when the "Original Coordinates Source" field value is "Other" and/or - Device details e.g. GPS Model, unit accuracy.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				

LIO Lookup Table Values:

WCA_LIST

WCA ELEMENT ID	ELEMENT CODE	COMMON NAME	WCA GENERAL DESCR	REC SENSITIVITY CLASS	NHIC TRACKED	NHIC SENSITIVE	EXPIRY DATETIME
17129	ORAPTORWC1	Raptor Winter Concentration Area		Medium	Y	N	
17132	OSHORBRDM1	Shorebird Migratory Concentration Area		Medium	Y	N	
17135	OWATERBRD1	Colonial Waterbird Nesting Area		Medium	Y	N	
17138	OWTRFOWLM1	Waterfowl Concentration Area		Medium	Y	N	
17141	OMUSSEL000	Freshwater Mussel Concentration Area		Medium	Y	N	
193991	OWADINGCA1	Mixed Wader Nesting Colony		Medium	Y	N	
193995	OBATCOLONY	Bat Hibernaculum/Nursery		Medium	Y	Y	