

Technical Bulletin: Nesting Site Data Class Model Changes

Data Class Affected: Nesting Site (NESTING)

Data Class Version #: 2

Change Effective Date: December 2009

Overview: An in-depth review of Ministry of Natural Resources (MNR) District business area requirements over the past year has resulted in major modifications to the NRVIS/LIO Nesting Site Data Class.

A NRVIS Nesting Site Users Guide provides users with details about how the information in this data class should be interpreted, used and maintained at the MNR District level. The guide will be posted on the NRVIS Intranet site.

Action Required: Subscribers of information stored in the nesting site data class should review the model revisions to assess how it affects their business area applications, analysis etc. Internal users of the NRVIS nesting site data will need to evaluate the model changes and where appropriate, make required adjustments to any mapping product and web mapping service coding.

Summary of Changes:

Type ^a	Target ^b	Description ^c
Miscellaneous	NRVIS Nesting Site Users Guide	A NRVIS Nesting Site Users Guide has been authored and will be posted on ODMS and the NRVIS intranet site for District staff who maintain this layer in NRVIS.
Concrete Class: Metadata	NESTING_SITE	Update data class description for Nesting Site
GUT: Added	Chimney Swift (GUT # 123)	Add new Geographic Unit Type (GUT)
GUT: Expired	Turtle Nesting Site (GUT # 1296)	This GUT is no longer within the data collection scope of this data class. Prior to expiring, any features classified with as 'Turtle Nesting Site' will be exported and provided to NHIC and the respective OMNR District who entered this information. The turtle nesting information will be loaded by NHIC into the appropriate NRVIS Species Observation data class (Local or Provincially tracked species).
Lookup Table: Added	Tree_Species_Common_Name_List	Lookup table of tree species common names to be associated to the NESTING_SITE.TREE_SPECIES_COMMON_NAME field.
New SNIF Report Required	Nesting Site data class	A new SNIF Report needs to be generated and published for Nesting Site.
Table: Added	NESTING_SITE_VISIT	An optional 1 to many table associated to the NESTING_SITE table that will enable users to enter details about nesting site visits. The source NESTING_SITE table FMF_OBJECT_ID and the SITE_VISIT_DATE will ensure record uniqueness in the

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c) **Description:** Additional description of change type,; e.g.: 'Field length expanded from 40 to 80 chars'.

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		<u>NESTING_SITE_VISIT_TABLE</u> .
Table: Fields added	NESTING_SITE	Please refer to Appendix-1 of the Technical Bulletin for a detailed listing of the new attributes along with any required data conversion.
Table: Relationship dropped	HABITAT to NESTING_SITE	The existing relationship between Nesting Site and the Habitat table is to be dropped. Nesting Site will now instead be directly related to the GEOG_UNIT table.

Additional Notes:

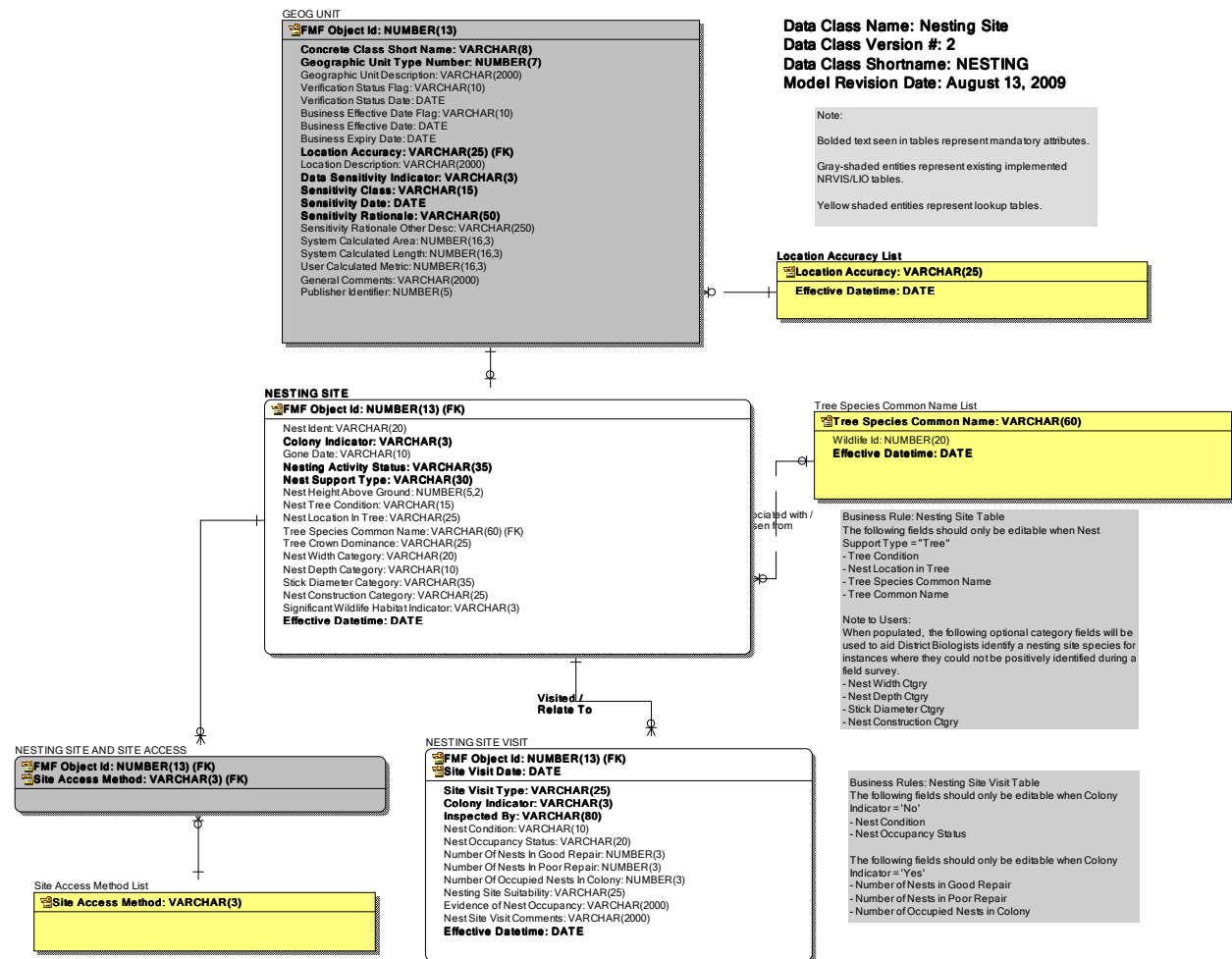
The planned NRVIS implementation date for the revised Nesting Site model is for the month of December, 2009 (by December 31 at the latest). This date has been chosen as to not interfere with the scheduled delivery of Nesting Site data to Forest Industry partners as part of the fall Annual Work Schedule delivery identified in the Forest Information Manual.

Additional questions or concerns users may have about the model changes will be addressed by contacting NRVIS Nesting Site Working Group Lead, Barb Elliott, GIS Officer, Fort Frances OMNR District (barb.elliott@ontario.ca).

Appendix 1: Detailed Summary of Nesting Site Model Changes

Entity Relationship Diagram of New NRVIS/OLIW Nesting Site Model

Note: Grey-shaded tables represent existing unaltered tables, Yellow-shaded tables represent lookup tables used by fields in the parent table.



Preface:

FMF_OBJECT_IDs from the existing (old) Nesting Site data class records will be retained. Therefore the information for records stored in the **GEOG_UNIT** and **NESTING_SITE_AND_SITE_ACCESS** tables will be converted to the new model as-is.

When consulted, the NRVIS Users Group concurred that there was not a business area requirement to store information in the old Nesting Site model's **HABITAT** table, therefore it has been omitted from the revised model, and is exempt from data conversion to the new model.

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During the data conversion from the old model to the new, no records will be created in the **NESTING_SITE_VISIT** table. Users will be able to create their own (multiple) site visit records as part of best practices, and/or create site visit records from whatever information that can be gleaned from comments stored in the relevant Geog Unit table fields e.g. *Geographic Unit Description, General Comments, Location Description*.

The complete listing of fields reflected in the new **NESTING_SITE** and **NESTING_SITE_VISIT** tables are described in the model diagram above. The context for how these new fields are to be interpreted and used is best described in the NRVIS Users-Guide for Nesting Site. The guide will also be published on ODMS with a link to the document posted on the NRVIS intranet site.

Data Conversion from Old to New Nesting Site Model:

The scope of this section will only concentrate on affected fields from the old nesting site data class that require data conversion.

OLD NESTING_SITE	NEW NESTING_SITE	CONVERSION COMMENTS																																				
FMF_OBJECT_ID	FMF_OBJECT_ID	Values Converted as-is																																				
	NEST_IDENT	<p>USER NOTES: Districts to glean req. info from GEOG_UNIT.GENERAL COMMENTS, LOCATION_DESCRIPTION, GEOG_UNIT_DESCR</p> <p>Users should refer to NRVIS Nesting Site Users-Guide for details about the NEST_IDENT's recommended format.</p>																																				
NEST_TYPE_CODE	<i>Field has been omitted in new model</i>	This field has been made redundant by NEST_SUPPORT_TYPE & COLONY_INDICATOR in new model.																																				
Cavity																																						
Stick																																						
Heronry																																						
	COLONY_IND (Yes/No)	<p>Derived from existing data by a default differentiating of the GUT Species breakdown for colony vs. solitary bird species. Note: Bolded text = medium sensitivity GUTS</p> <table border="1"> <thead> <tr> <th></th> <th>GUT #</th> <th>GUT NAME</th> </tr> </thead> <tbody> <tr> <td rowspan="17">Yes</td> <td>1349</td> <td>Arctic Tern Nesting Site/Colony</td> </tr> <tr> <td>1853</td> <td>Black Back Gull (Greater) Nesting Colony</td> </tr> <tr> <td>1704</td> <td>Black-Crowned Night Heron Nesting Site/Colony</td> </tr> <tr> <td>1037</td> <td>Caspian Tern Nesting Site</td> </tr> <tr> <td>68</td> <td>Cliff Swallow Nesting Site/Colony</td> </tr> <tr> <td>1432</td> <td>Common Tern Nesting Site/Colony</td> </tr> <tr> <td>1314</td> <td>Cormorant Nesting Site/Colony</td> </tr> <tr> <td>1706</td> <td>Forster's Tern Nesting Site/Colony</td> </tr> <tr> <td>1100</td> <td>Great Blue Heron Nesting Site/Colony</td> </tr> <tr> <td>1703</td> <td>Herring Gull Nesting Site/Colony</td> </tr> <tr> <td>1702</td> <td>Ring-Billed Gull Nesting Site/Colony</td> </tr> <tr> <td>1448</td> <td>Snow Goose Nesting Site/Colony</td> </tr> <tr> <td>1344</td> <td>Unidentified Heron Nesting Site</td> </tr> <tr> <td>1705</td> <td>Yellow-Crowned Night Heron Nesting Site/Colony</td> </tr> <tr> <td>1280</td> <td>White Pelican Nesting Site/Colony</td> </tr> <tr> <td>1707</td> <td>Black Tern Nesting Site/Colony</td> </tr> </tbody> </table>		GUT #	GUT NAME	Yes	1349	Arctic Tern Nesting Site/Colony	1853	Black Back Gull (Greater) Nesting Colony	1704	Black-Crowned Night Heron Nesting Site/Colony	1037	Caspian Tern Nesting Site	68	Cliff Swallow Nesting Site/Colony	1432	Common Tern Nesting Site/Colony	1314	Cormorant Nesting Site/Colony	1706	Forster's Tern Nesting Site/Colony	1100	Great Blue Heron Nesting Site/Colony	1703	Herring Gull Nesting Site/Colony	1702	Ring-Billed Gull Nesting Site/Colony	1448	Snow Goose Nesting Site/Colony	1344	Unidentified Heron Nesting Site	1705	Yellow-Crowned Night Heron Nesting Site/Colony	1280	White Pelican Nesting Site/Colony	1707	Black Tern Nesting Site/Colony
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GONE_YMD	GONE_DATE	Populated with formatted values (YYYY-MM-DD) which will be provided to data load team in a list of FMF Object IDs + old value converted to recommended format.										
PRIMARY_NEST_IND (Yes/No/NA)	NEST_OR_COLONY_ACTIVITY_STATUS <table border="1"> <tr> <td>Active – Primary Nest/Colony</td> </tr> <tr> <td>Active – Alternate Nest</td> </tr> <tr> <td>Inactive</td> </tr> <tr> <td>Not Applicable</td> </tr> </table>	Active – Primary Nest/Colony	Active – Alternate Nest	Inactive	Not Applicable	CONVERSION <table border="1"> <tr> <td>Primary Nest Ind = YES</td> <td>Active – Primary Nest Check Gone date = Not applicable</td> </tr> <tr> <td>Primary Nest Ind = NA</td> <td>Not Applicable</td> </tr> <tr> <td>Primary Nest Ind = NO</td> <td>Active – Alternate Nest Check Gone date = Not applicable</td> </tr> </table>	Primary Nest Ind = YES	Active – Primary Nest Check Gone date = Not applicable	Primary Nest Ind = NA	Not Applicable	Primary Nest Ind = NO	Active – Alternate Nest Check Gone date = Not applicable
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TREE_CONDITION_CODE	NEST_SUPPORT_TYPE <table border="1"> <tr><td>Tree</td></tr> <tr><td>Cliff</td></tr> <tr><td>Cave</td></tr> <tr><td>Ground</td></tr> <tr><td>Pole or Tower</td></tr> <tr><td>Building</td></tr> <tr><td>Floating Vegetation</td></tr> <tr><td>Nesting Box</td></tr> </table>	Tree	Cliff	Cave	Ground	Pole or Tower	Building	Floating Vegetation	Nesting Box	CONVERSION: Turn off mandatory constraint for data load/conversion. Where old NS TREE_CONDITION_CODE is NOT NULL, the new value for NEST_SUPPORT_TYPE will = 'Tree'		
Tree												
Cliff												
Cave												
Ground												
Pole or Tower												
Building												
Floating Vegetation												
Nesting Box												
NEST_HEIGHT	NEST_HEIGHT_ABOVE_GROUND	Convert as-is										
TREE_CONDITION_CODE <table border="1"> <tr><td>A – Alive</td></tr> <tr><td>D – Dead</td></tr> <tr><td>T – Dead at Top</td></tr> </table>	A – Alive	D – Dead	T – Dead at Top	NEST_TREE_CONDITION <table border="1"> <tr><td>Alive</td></tr> <tr><td>Dead</td></tr> <tr><td>Dead at top</td></tr> </table>	Alive	Dead	Dead at top	CONVERSION Convert all old value codes to full values e.g. 'A' = 'Alive'				
A – Alive												
D – Dead												
T – Dead at Top												
Alive												
Dead												
Dead at top												
WILDLIFE_ID	TREE_SPECIES_COMMON_NAME (Nest Support Type = Tree)	CONVERSION Use WILDLIFE_ID from old model (where > 0) to obtain the common name for the Species table. The new lookup table (<i>TREE_SPECIES_COMMON_NAME_LIST</i>) will also store the unique SPECIES_ID, not the Wildlife Usage ID.										

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Additional Information

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