

User Guide for Bait Harvest Area LIO Data Class

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Additional Information

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Executive Summary

Key Words

Fish

Fisheries

Fisheries Management

Water Management

Baitfish

Fishery Resources

Abstract

This user guide details the specifications for the Bait Harvest Area Land Information Ontario (LIO) Data Class. It provides users with information on the data class in conjunction with commercial bait licensing.

Table of Contents

Disclaimer	2
Additional Information.....	2
Executive Summary	3
Key Words.....	3
Abstract.....	3
Table of Contents.....	4
List of Figures.....	5
List of Acronyms.....	6
Introduction	7
Objectives	7
Data Class: Bait Harvest Area.....	8
Model Diagram: Bait Harvest Area.....	9
Data Description.....	10
BAIT_HARVEST_AREA_FT	10
BAIT_ANNUAL_EXPORT	11
BAIT_ANNUAL_HARVEST	12
BAIT_AUDIT_CHECK	13
BAIT_HARVEST_AREA_STATUS.....	14
BAIT_LICENCE.....	15
BAIT_LICENCE_AND_AREA	17
BAIT_LICENCE_HARVEST_GEAR.....	17
BAIT_MONTHLY_SALES	18
Links to Additional Information	19
APPENDIX A: LIO Lookup Tables and Values.....	20
BAIT_TYPE_LIST	20
LOCATION_ACCURACY_LIST	21
APPENDIX B: Table Key Dependency and Relationship Index	23
Bait Harvest Area - Main Business Area Tables	26
Bait Harvest Area - Lookup Table Indexes.....	27

List of Figures

Figure 1: Bait Harvest Area Physical Data Model	9
Figure 3: Primary Key example	23
Figure 4: Foreign Key example	23
Figure 5: Alternate Key example	24
Figure 6: Example of an Identifying Relationship	24
Figure 7: Example of a Non-identifying Relationship.....	24
Figure 8: Model Diagram Relationship Symbology Table.....	25

List of Acronyms

BHA: Bait Harvest Area

GIS: Geographic Information System

LIO: Land Information Ontario

MNRF: Ontario Ministry of Natural Resources and Forestry

OGF: Ontario Geospatial Feature

Introduction

A commercial bait licence issued under the *Fish and Wildlife Conservation Act, 1997* (FWCA), is required to harvest, buy or sell baitfish or leeches for commercial purposes. Commercial bait activities are regulated under applicable legislation and regulations (e.g. FWCA, OFRs, Endangered Species Act, 2007, Fisheries Act, 1985), and by terms and conditions of licence. Currently, policy direction for the commercial bait program is contained in the *Commercial Bait Program Guidelines*, which are updated annually.

The standard size of a Bait Harvest Area (BHA) in most MNRF Districts is the Township, Mercator Block or Basemap Block. Some Districts have traditionally used watershed boundaries, or have divided up the township into smaller blocks (e.g. , $\frac{1}{4}$ or $\frac{1}{2}$ townships) and licence them separately. In some areas, such as private property, the BHA may be as small as a single pond.

In areas where blocks are smaller than the standard/traditional size, all smaller block areas allocated to one licensee within one of the standard/traditional BHA sizes, should be treated as one BHA for billing purposes.

All Crown waterbodies on the BHA are normally allocated to the licensee, however, it is up to the licensee to obtain permission to cross or harvest on private property.

Objectives

This guide is intended for users with a general interest in the Bait Harvest Area LIO Data Class. The remainder of this document describes the extent and context of the information collected the data class.

Data Class: Bait Harvest Area

The bait resource in much of the province is allocated to harvesters through the exclusive use block system (one harvester per bait harvest area) with block sizes generally much larger in the north than in the south. There are exceptions to the block system (e.g. Lake Erie), where the resource is allocated to multiple users fishing the same area.

Model Diagram: Bait Harvest Area

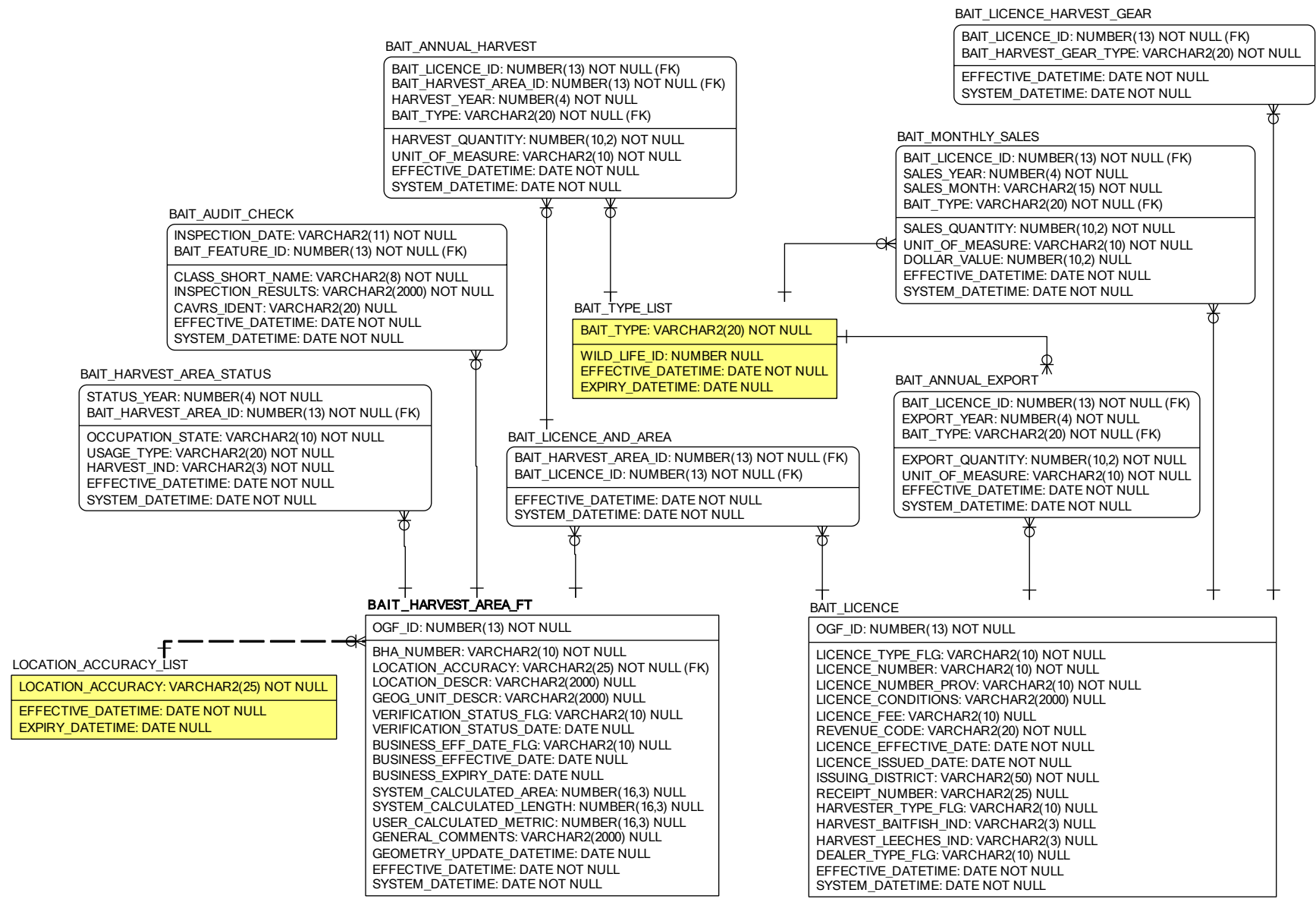


Figure 1: Bait Harvest Area Physical Data Model

Data Description

The main business area table(s) for this model can be found below. Associated lookup tables will be listed in [Appendix A](#) of this document.

BAIT_HARVEST_AREA_FT

A geographic area defined for the licencing of bait harvesting.

Column Name	Column Type	Mandatory	Short Name	Description
OGF_ID	NUMBER(13)	Yes	OGF_ID	A unique numeric provincial identifier assigned to each object.
BHA_NUMBER	VARCHAR2(10)	Yes	BHA_NUMBER	A number assigned to a Bait Harvest Area.
LOCATION_ACCURACY	VARCHAR2(25)	Yes	ACCURACY	The degree of conformity or closeness of a measurement within the database to its true value in the world.
LOCATION_DESCR	VARCHAR2(2000)	No	LOC_DESC	Description of the area or directions on how to get to the site.
GEOG_UNIT_DESCR	VARCHAR2(2000)	No	GUNT_DES	Detailed description of the Geographic Unit.
VERIFICATION_STATUS_FLG	VARCHAR2(10)	No	VERISTT_FL	An indication as to whether a qualified employee has verified the existence of the geographic unit.
VERIFICATION_STATUS_DATE	DATE	No	VERISTT_DT	Date that the geographic unit was verified/validated.
BUSINESS_EFF_DATE_FLG	VARCHAR2(10)	No	BUSEFFDTFL	Indication of whether the business effective date is an actual or estimated value.
BUSINESS_EFFECTIVE_DATE	DATE	No	BUS_EFF_DT	Date that the record becomes effective in relation to the business i.e. the date MNRF became aware of its existence.
BUSINESS_EXPIRY_DATE	DATE	No	BUS_EXP_DT	A date indicating when the record was determined to be invalid.

Column Name	Column Type	Mandatory	Short Name	Description
SYSTEM_CALCULATED_AREA	NUMBER(16,3)	No	SYS_AREA	The area of a polygon measured in square metres by the system.
SYSTEM_CALCULATED_LENGTH	NUMBER(16,3)	No	SYS_LENGTH	The perimeter of a polygon or length of a line measured in metres.
USER_CALCULATED_METRIC	NUMBER(16,3)	No	USER_CALC	The length, perimeter or area of an object in metres or square metres as measured or provided by the user.
GENERAL_COMMENTS	VARCHAR2(2000)	No	GNL_CMT	General comments.
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.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database.

BAIT_ANNUAL_EXPORT

The annual amount of bait that was exported.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_LICENCE_ID	NUMBER(13)	Yes	BT_LIC_OID	Foreign key to BAIT LICENCE
EXPORT_YEAR	NUMBER(4)	Yes	EXP_YEAR	The year that the bait export summary details are associated to.
BAIT_TYPE	VARCHAR2(20)	Yes	BAIT_TYPE	This field identifies the specific type of bait e.g. Bait-fish, Emerald Shiners, Lake Herring, Leeches.
EXPORT_QUANTITY	NUMBER(10,2)	Yes	EXP_QUAN	This is the quantity of a specific bait type exported

Column Name	Column Type	Mandatory	Short Name	Description
				during the year measured in pounds, dozens or gallons. The unit of measure applicable to the value stored in this field is identified in the UNIT_OF_MEASURE field.
UNIT_OF_MEASURE	VARCHAR2(10)	Yes	UNT_MSR	The Unit of Measure used to quantify the bait export quantity measured in dozens, gallons or pounds.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_ANNUAL_HARVEST

Harvesting activity that occurs in a particular year.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_LICENCE_ID	NUMBER(13)	Yes	BT_LIC_OID	Foreign key to BAIT LICENCE
BAIT_HARVEST_AREA_ID	NUMBER(13)	Yes	BHA_OID	FMF_OBJECT_ID of associated parent BAIT HARVEST AREA feature.
HARVEST_YEAR	NUMBER(4)	Yes	HARV_YEAR	The Year applicable to the bait harvest summary details.
BAIT_TYPE	VARCHAR2(20)	Yes	BAIT_TYPE	This field identifies the specific type of bait e.g. Bait-fish, Emerald Shiners, Lake Herring, Leeches.
HARVEST_QUANTITY	NUMBER(10,2)	Yes	HARV_QUAN	This is the quantity of a specific bait type harvested during the year measured in pounds, dozens or gallons. The unit of measure applicable to the value

Column Name	Column Type	Mandatory	Short Name	Description
				stored in this field is identified in the UNIT_OF_MEASURE field.
UNIT_OF_MEASURE	VARCHAR2(10)	Yes	UNT_MSR	The Unit of Measure used to quantify the bait harvest quantity measured in dozens, gallons or pounds.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_AUDIT_CHECK

An inspection to determine if the appropriate regulations are being met.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_FEATURE_ID	NUMBER(13)	Yes	BTFEAT_OID	The FMF_OBJECT_ID of the BAIT HARVEST AREA feature that the Bait Audit Check is associated to.
INSPECTION_DATE	VARCHAR2(11)	Yes	INSP_DT	Date of the most recent inspection e.g. 24 June, 1998; June 1998; 1998.
CLASS_SHORT_NAME	VARCHAR2(8)	Yes	CLASS_NAME	System-generated column denoting the concrete class which this record is part of.
INSPECTION_RESULTS	VARCHAR2(2000)	Yes	INSP_REL	Details regarding the inspection.
CAVRS_IDENT	VARCHAR2(20)	No	CAVRS_IDT	Points to the corresponding compliance check record in the CAVRS database.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.

Column Name	Column Type	Mandatory	Short Name	Description
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_HARVEST_AREA_STATUS

Tracks if a Bait Harvest Area has been occupied (i.e. used for harvesting) over a period of time.

Column Name	Column Type	Mandatory	Short Name	Description
STATUS_YEAR	NUMBER(4)	Yes	BHA_OID	The year that the Bait Harvest Area Status details are associated to.
BAIT_HARVEST_AREA_ID	NUMBER(13)	Yes	STAT_YEAR	System generated identifier, unique at the application level.
OCCUPATION_STATE	VARCHAR2(10)	Yes	OCCUP_STAT	Identifies if the Bait Harvest Area is currently being used by a licence harvester (occupied) or does not have a licenced harvester attached to it (vacant). VALID VALUES: IN (Occupied,Vacant)
USAGE_TYPE	VARCHAR2(20)	Yes	USG_TYPE	Identifies if the Bait Harvest Area is classed as exclusive use or multiple use. When a BHA has only one licenced harvester, this is known as exclusive use. If a BHA has more than one licenced harvester, then it is known as multiple use. VALID VALUES: IN (Exclusive Use,Multiple Use)
HARVEST_IND	VARCHAR2(3)	Yes	HAVE_IND	Indicates if the Bait Harvest Area has been used for harvesting in the current year. VALID VALUES: IN (Yes,No)
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in

Column Name	Column Type	Mandatory	Short Name	Description
				the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_LICENCE

Authorization to either harvest and/or deal in bait.

Column Name	Column Type	Mandatory	Short Name	Description
OGF_ID	NUMBER(13)	Yes	OGF_ID	A unique numeric provincial identifier assigned to each object.
LICENCE_TYPE_FLG	VARCHAR2(10)	Yes	LIC_TYPE	The type of bait licence issued to the applicant, whether as a Harvester or Dealer. VALID VALUES: IN (Harvester, Dealer)
LICENCE_NUMBER	VARCHAR2(10)	Yes	LIC_NUM	The licence number assigned to the person who has rights to harvest and/or deal bait.
LICENCE_NUMBER_PROV	VARCHAR2(10)	Yes	LIC_NUM_PR	The provincial licence number assigned to the person who has rights to harvest and/or deal bait.
LICENCE_CONDITIONS	VARCHAR2(2000)	No	LIC_COND	Identifies any limits or qualifiers that may be attached to a licence.
LICENCE_FEE	VARCHAR2(10)	No	LIC_FEE	The amount of money collected for a specific licence.
REVENUE_CODE	VARCHAR2(20)	Yes	REVENUE_C	The general ledger revenue code to which the licensing fee is assigned.
LICENCE_EFFECTIVE_DATE	DATE	Yes	LIC_EFF_DT	The date when the licence becomes effective.
LICENCE_ISSUED_DATE	DATE	Yes	LIC_ISS_DT	Date the licence was issued.

Column Name	Column Type	Mandatory	Short Name	Description
ISSUING_DISTRICT	VARCHAR2(50)	Yes	ISSU_DIST	The Ministry of Natural Resources and Forestry district which issued the licence. The licence may be issued by a district other than where the BHA is located in.
RECEIPT_NUMBER	VARCHAR2(25)	No	RECEIPT_NM	The identification number on the receipt provided to the purchaser of the licence.
HARVESTER_TYPE_FLG	VARCHAR2(10)	No	HARV_TYPE	Identifies whether the licenced harvester is a Regular or Tourist to the operation. VALID VALUES: IN (Regular, Tourist)
HARVEST_BAITFISH_IND	VARCHAR2(3)	No	BAITFISH	Indicates whether this licence allows the harvesting of baitfish. VALID VALUES: IN (Yes,No)
HARVEST_LEECHES_IND	VARCHAR2(3)	No	LEECHES	Indicates whether this licence allows the harvesting of leeches. VALID VALUES: IN (Yes,No)
DEALER_TYPE_FLG	VARCHAR2(10)	No	DLR_TP_FLG	Identifies whether the licenced bait dealer is a Regular or Tourist to the operation. VALID VALUES: IN (Regular, Tourist)
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_LICENCE_AND_AREA

Intersect Table between BAIT HARVEST AREA and BAIT LICENCE.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_HARVEST_AREA_ID	NUMBER(13)	Yes	BT_LIC_OID	FMF_OBJECT_ID of associated parent BAIT HARVEST AREA feature.
BAIT_LICENCE_ID	NUMBER(13)	Yes	BHA_OID	Foreign key to BAIT LICENCE
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_LICENCE_HARVEST_GEAR

Equipment used by a licenced person to capture bait. For example: trap, seine, etc.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_LICENCE_ID	NUMBER(13)	Yes	BT_LIC_OID	Foreign key to the parent BAIT_LICENCE record FMF_OBJECT_ID
BAIT_HARVEST_GEAR_TYPE	VARCHAR2(20)	Yes	TYPE	Identifies the type of fishing gear used to harvest bait e.g. trap, seine etc.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

BAIT_MONTHLY_SALES

The activity, either harvesting and/or sales, that occurs in a given month.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_LICENCE_ID	NUMBER(13)	Yes	BT_LIC_OID	Foreign key to the parent BAIT_LICENCE record FMF_OBJECT_ID
SALES_YEAR	NUMBER(4)	Yes	SALES_YEAR	The year that the Bait Monthly Sales summary pertains to.
SALES_MONTH	VARCHAR2(15)	Yes	SALES_MNTH	The month that the Bait Monthly Sales summary pertains to.
BAIT_TYPE	VARCHAR2(20)	Yes	BAIT_TYPE	This field identifies the specific type of bait e.g. Bait- fish, Emerald Shiners, Lake Herring, Leeches.
SALES_QUANTITY	NUMBER(10,2)	Yes	SALES_QUAN	This is the quantity of a specific bait type sold during the year measured in pounds, dozens or gallons. The unit of measure applicable to the value stored in this field is identified in the UNIT_OF_MEASURE field.
UNIT_OF_MEASURE	VARCHAR2(10)	Yes	UNT_MSR	The Unit of Measure used to quantify the bait sales quantity measured in dozens, gallons or pounds.
DOLLAR_VALUE	NUMBER(10,2)	No	DOLLAR_VAL	The dollar value (CAD) generated from sales for a specific month and bait type.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database.
SYSTEM_DATETIME	DATE	Yes	SYS_DATE	Date/time the record was loaded into or last modified in the LIO database. DEFAULT: SYSDATE

Links to Additional Information

- [Official LIO Metadata Record for Bait Harvest Area](#)

APPENDIX A: LIO Lookup Tables and Values

BAIT_TYPE_LIST

This Lookup Table stores the permissible values for bait types e.g. Bait-fish, Emerald Shiners, Lake Herring, Leeches.

Column Name	Column Type	Mandatory	Short Name	Description
BAIT_TYPE	VARCHAR2(20)	Yes	BAIT_TYPE	This field identifies the specific type of bait e.g. Bait-fish, Emerald Shiners, Lake Herring, Leeches.
WILD_LIFE_ID	NUMBER	No	WILDLIFEID	An ID pointing to a corporate list of taxa.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database. DEFAULT: SYSDATE
EXPIRY_DATETIME	DATE	No	EXP_DATE	Date/time that the record was expired from use.

BAIT TYPE	WILD LIFE ID	EXPIRY DATETIME
Bait-fish		
Emerald Shiners		
Lake Herring		
Leeches		

LOCATION_ACCURACY_LIST

List of valid LOCATION_ACCURACYs.

Column Name	Column Type	Mandatory	Short Name	Description
LOCATION_ACCURACY	VARCHAR2(25)	Yes	ACCURACY	The accuracy of the location of the feature at an OBM scale. The degree of conformity or closeness of a measurement to the true value.
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	Date/time the record was created or last modified in the source database. DEFAULT: SYSDATE
EXPIRY_DATETIME	DATE	No	EXP_DATE	Date/time that the record was expired from use.

LOCATION ACCURACY	EXPIRY DATETIME
Not Applicable	
Over 10,000 metres	
Within 1 metre	
Within 10 metres	
Within 10,000 metres	
Within 100 metres	
Within 1000 metres	
Within 2 metres	
Within 20 metres	
Within 200 metres	
Within 2000 metres	
Within 5 metres	
Within 50 metres	
Within 500 metres	
Within 5000 metres	

AC Accurate (to 10m)	01/12/2007
AP Approximate (to 500m)	01/12/2007
GE General (to 10,000m)	01/12/2007
MO Moderate (to 1000m)	01/12/2007
RE Reliable (to 100m)	01/12/2007
VA Very Accurate (to 2m)	01/12/2007
VG Vague (to 100,000m)	01/12/2007
^ Data Load	01/12/2007

APPENDIX B: Table Key Dependency and Relationship Index

Keys are used to link or make relationships between tables through one or more columns. A Parent Table is the source of unique key columns used by a Child Table. The main key types are described below.

Primary Key (PK):

A Primary Key (PK) is a column that uniquely identifies each record in a table. There can be more than one PK defined for a table when additional rules for record uniqueness are needed. Primary Keys cannot contain null values.

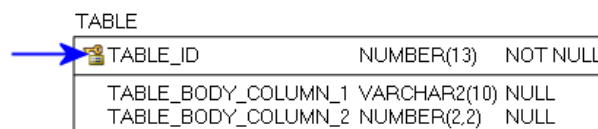


Figure 3: Primary Key example

Foreign Key (FK):

When a Primary Key from a Parent Table appears as a column in the Child Table it is referred to as a Foreign Key (FK). The FK may retain the same name of the Parent Table column, or it may be renamed.

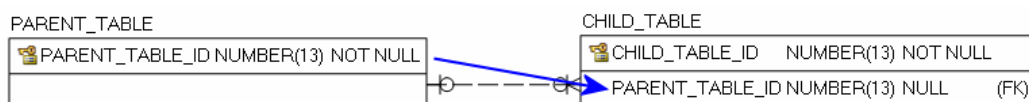


Figure 4: Foreign Key example

Alternate Key (AK):

Alternate Keys (AK) are secondary unique identifiers in a Parent Table. A Child Table can link to a Parent Table AK and use it as a Foreign Key (FK). The FK may retain the same name of the Parent Table column, or it may be renamed. Alternate Keys allow null values.

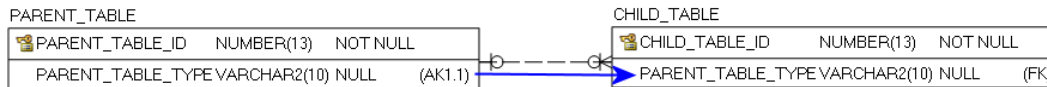


Figure 5: Alternate Key example

There are two relationship type options, identifying and non-identifying, which are described below.

An **Identifying Relationship** occurs when a column from the Parent Table is added to the key section of the Child Table. Though technically a Foreign Key (FK) in the child table, it now forms part of the Primary Key (PK). Identifying Relationships are symbolized with a solid line.

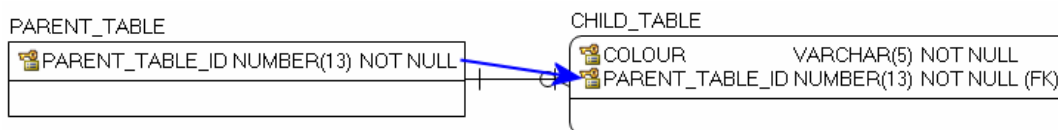


Figure 6: Example of an Identifying Relationship

A **Non-identifying Relationship** occurs when a column from the Parent Table is added to the main body of the Child Table where it is treated as a Foreign Key (FK). Non-identifying Relationships are symbolized with a dashed line.

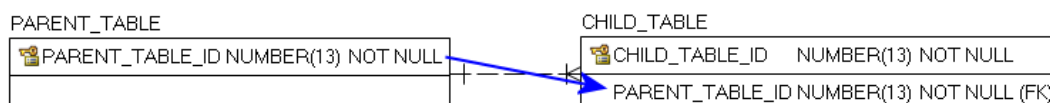


Figure 7: Example of a Non-identifying Relationship

The relationships between tables are set up with cardinality rules describing if the feature record in the Parent Table can relate to zero, one or more records in the associated Child Table and vice versa. These rules are symbolized in the model diagram as follows.

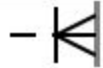
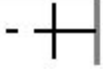
Symbol	Definition
	Zero or one (optional: 1 to 1)
	Zero, one or more (optional: one to many)
	One or more (mandatory: one to many)
	Nulls not allowed (mandatory: 1 to 1)

Figure 8: Model Diagram Relationship Symbology Table

The following section is an index of parent table primary keys identifying, where applicable, associated child table dependencies that have been implemented for the

Bait Harvest Area - Main Business Area Tables

Index of main business area table primary and associated foreign keys. Refer to the Model Diagram for a visual representation of the keys and their relationships.

Note: Relationship type reference is either Identifying (I) or Non-Identifying (NI).

Parent Table: **BAIT_HARVEST_AREA_FT**

Primary Key(s): **OGF_ID**

Data Type: **NUMBER (13)**

Child Table	Migrated Foreign Key	Rel. Type	Parent to Child Relationship	Child to Parent Relationship
BAIT_HARVEST_AREA_STATUS	BAIT_HARVEST_AREA_ID	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_AUDIT_CHECK	BAIT_FEATURE_ID	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_LICENCE_AND_AREA	BAIT_HARVEST_AREA_ID	I	Optional: 1 to many	Mandatory: 1 to1

Parent Table: **BAIT_LICENCE**

Primary Key(s): **OGF_ID**

Data Type: **NUMBER (13)**

Child Table	Migrated Foreign Key	Rel. Type	Parent to Child Relationship	Child to Parent Relationship
BAIT_LICENCE_AND_AREA	BAIT_LICENCE_ID	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_ANNUAL_EXPORT	BAIT_LICENCE_ID	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_MONTHLY_SALES	BAIT_LICENCE_ID	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_LICENCE_HARVEST_GEAR	BAIT_LICENCE_ID	I	Optional: 1 to many	Mandatory: 1 to1

Parent Table: **BAIT_LICENCE_AND_AREA**

Primary Key(s): **BAIT_HARVEST_AREA_ID, BAIT_LICENCE_ID**

Data Type: **NUMBER (13)**

Child Table	Migrated Foreign Key	Rel. Type	Parent to Child Relationship	Child to Parent Relationship
BAIT_ANNUAL_HARVEST	BAIT_HARVEST_AREA_ID, BAIT_LICENCE_ID	I	Optional: 1 to many	Optional: 1 to1

Bait Harvest Area - Lookup Table Indexes

Lookup table primary key (PK) used as a foreign key in main business area table to control permissible values.

Note: Relationship type reference is either Identifying (I) or Non-Identifying (NI).

Parent Table: LOCATION_ACCURACY_LIST

Primary Key(s): LOCATION_ACCURACY

Data Type: VARCHAR2 (25)

Child Table	Migrated Foreign Key	Rel. Type	Parent to Child Relationship	Child to Parent Relationship
BAIT_HARVEST_AREA	LOCATION_ACCURACY	NI	Optional: 1 to many	Mandatory: 1 to1

Parent Table: BAIT_TYPE_LIST

Primary Key(s): BAIT_TYPE

Data Type: VARCHAR2 (25)

Child Table	Migrated Foreign Key	Rel. Type	Parent to Child Relationship	Child to Parent Relationship
BAIT_ANNUAL_HARVEST	BAIT_TYPE	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_ANNUAL_EXPORT	BAIT_TYPE	I	Optional: 1 to many	Mandatory: 1 to1
BAIT_MONTHLY_SALES	BAIT_TYPE	I	Optional: 1 to many	Mandatory: 1 to1