Unclassified

# Land Information Ontario
# Data Description

# UTM 1km Grid

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# LIO Class Catalogue

## UTM 1KM Grid

**Class Short Name:** UTM1KM

**Version Number:** 1

**Class Description:**

A 1km x 1km UTM grid that is a standard reference index for Ontario. It includes a Military Grid Reference, Fire Base Map identifier, Fire Base Map Block Identifier, and an Atlas identifier. This grid is generated from corner points, covers the province of Ontario and is intended for general use.

**Abstract Class Name:** SPSTPOLY

**Abstract Class Description:**

Spatial Single-Tessellating-Polygon: An object is represented by ONE and ONLY ONE polygon. Polygons may NOT overlap. ALL features in the data class MUST be classified, meaning that HOLES, GAPS or OVERLAPS are NOT allowed. Example: "Provincial Riding", where all areas of Ontario are divided into electoral ridings.

## Tables in LIO Class:

### UTM_1KM_GRID_FT

A 1km x 1km Universal Transverse Mercator (UTM) grid that is a standard reference index for Ontario. It includes a Military Grid Reference, Fire Base Map identifier, Fire Base Map Block Identifier, and an Atlas identifier. This grid is generated from corner points, covers the Province of Ontario and is intended for general use.

| 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. | | | | |
| **UTM_ZONE** | NUMBER(2,0) | Yes | UTM_ZONE | 15, 16, 17, 1 |
| A geographic reference zone within the province. The Earth is divided into 60 UTM zones running west to east from the Central Median in 6 degree longitudinal strips extending from 80 degrees South latitude to 84 degrees North latitude. In Ontario the 4 zones are 15, 16, 17 and 18. | | | | |
| **EASTING_LOWER_LEFT_CORNER** | NUMBER(6,0) | Yes | EASTING | |
| The UTM NAD83 X-coordinate or Easting in the lower left corner of a full grid square. | | | | |
| **NORTHING_LOWER_LEFT_CORNER** | NUMBER(7,0) | Yes | NORTHING | |
| The UTM NAD83 Y-coordinate or Northing in the lower left corner of a full grid square. | | | | |
| **FIRE_BASEMAP_IDENT** | VARCHAR2(5) | Yes | FIRE_IDENT | |
| A five digit identifier used by the Ontario Ministry of Natural Resources Aviation and Forest Fire Management Program (AFFM) to identify a Fire Basemap. This code is comprised of the first two digits of the UTM Easting, and the first three digits of the UTM Northing. | | | | |
| **FIRE_BASEMAP_BLOCK_IDENT** | VARCHAR2(2) | Yes | FIRE_BLOCK | |
| A two character identifier that identifies the Fire Basemap Block. Each ten kilometer Fire Basemap is subdivided into 100 one kilometer Fire Basemap Blocks from 00 (SW of Fire Basemap) to 99 (NE corner of Fire Basemap). The first character from Block is derived from the 3rd digit of the True UTM Easting, and the 2nd character is deriv ed from the 4th digit of the True UTM Northing. | | | | |
| **MGRS_NAD83_IDENT** | VARCHAR2(9) | Yes | MGRS_83 | |
| A unique identifier that identifies a specific Military Grid Reference System (MGRS) grid cell. (e.g. 17TPM7017). See http://maps.nrcan.gc.ca/topo101/mil_ref_e.php for additional information. | | | | |
| **MGRS_NAD27_IDENT** | VARCHAR2(9) | Yes | MGRS_27 | |
| The NAD27 identifier which corresponds to the NAD83 extent that identifies a specific Military Grid Reference System (MGRS) grid cell. (e.g. 17TPB7017). This identifier is intended for reference only as the geometry is based on a NAD83 extent. See http://maps.nrcan.gc.ca/topo101/mil_ref_e.php for additional information. | | | | |
| **ATLAS_NAD83_IDENT** | VARCHAR2(8) | Yes | ATLAS_83 | |
| A unique identifier that identifies a specific grid cell. (e.g. 17PM7017) Although similar to the | | | | |

Military Grid Reference System the Atlas Identifier does not include the Grid Zone Designation (e.g. T) typical of the Military Grid Reference System and is considered a derivative. See http://maps.nrcan.gc.ca/topo101/mil_ref_e.php for addition al information.

| | | | | |
|---|---|---|---|---|
| **ATLAS_NAD27_IDENT** | VARCHAR2(8) | Yes | ATLAS_27 | |

The NAD27 identifier which corresponds to the NAD83 extent that identifies a specific grid cell. (e.g. 17PM7017). Although similar to the Military Grid Reference System the Atlas Identifier does not include the Grid Zone Designation (e.g. T) typical of the Military Grid Reference System and is considered a derivative. This identifier is inte nded for reference only as the geometry is based on a NAD83 extent. See http://maps.nrcan.gc.ca/topo101/mil_ref_e.php for additional information.

| | | | | |
|---|---|---|---|---|
| **PROVINCIAL_IND** | VARCHAR2(3) | Yes | PROVINCIAL | Yes, No |

Indication of a grid cell contained in whole or in part within the jurisdictional boundary of the province of Ontario.

| | | | |
|---|---|---|---|
| **GEOMETRY_UPDATE_DATETIME** | DATE | No | GEO_UPT_DT |

Date/time the geometry was created or last modified in the source database.

| | | | |
|---|---|---|---|
| **EFFECTIVE_DATETIME** | DATE | No | EFF_DATE |

Date/time the record was created or last modified in the source database.

| | | | |
|---|---|---|---|
| **SHAPE** | SDO_GEOMETRY | No | SHAPE |

Geometry attribute.