

Land Information Ontario Data Description

Forest Genetics Zone

Disclaimer

This technical documentation has been prepared by the Ministry of Natural Resources (the “Ministry”), representing Her Majesty the Queen in right of Ontario. Although every effort has been made to verify the information, this document is presented as is, and the Ministry makes no guarantees, representations or warranties with respect to the information contained within this document, either express or implied, arising by law or otherwise, including but not limited to, effectiveness, completeness, accuracy, or fitness for purpose. The Ministry is not liable or responsible for any loss or harm of any kind arising from use of this information.

Some of the information in this document is nonconvertible or has not yet been made accessible and may not be compatible with assistive technologies. If you need any of the information in an alternate format, please contact LIO Support at lio@ontario.ca or (705) 755-1878.

LIO Class Description

Forest Genetics Zone

Class Short Name: FGZONE

Version Number: 1

Class Description:

Zones for the deployment, breeding and management of genetic material of forests of Ontario.

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:

Forest Genetics Zone

FOREST_GENETICS_ZONE_FT

Zones for the deployment, breeding and management of genetic material of forests of Ontario.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER(13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
ZONE_SET_IDENT	VARCHAR2(75)	Yes	SET_IDENT	
Name or Identifier for a collection of zone polygons with a common theme which together commonly form a tessellating mosaic and would appear together on a map; attributes at the set level are common to all polygon objects within the same Zone Set.				
ZONE_SET_DESCR	VARCHAR2(254)	No	SET_DESCR	
Brief description of the Zone Set; should be the same for all objects within the same Zone Set.				
ZONE_UNIT_IDENT	VARCHAR2(75)	Yes	UNIT_IDENT	
Identifier for the zone (usually unique within a Zone Set).				
ZONE_UNIT_DESCR	VARCHAR2(254)	No	UNIT_DESCR	
Detailed description of the forest genetics zone.				
ZONE_UNIT_GENETIC_SOURCE	VARCHAR2(100)	No	GEN_SOURCE	
Identifying information for the genetic source specific to the unit. This may be the seed source, provenance, population, etc.				
ZONE_UNIT_SPECIES	VARCHAR2(3)	No	UNIT_SP	AL, AM, AX, Ab, Ag, Ap, ... (See FCU_TREE_SPECIES_LIST table)
The primary or target species associated with the zone. Tree species codes (e.g. Pj for Jack Pine) are found in the FCU_TREE_SPECIES_LIST table.				
GENERAL_COMMENTS	VARCHAR2(2000)	No	COMMENTS	
General comments.				
GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPT_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	
Geometry attribute.				

FCU_TREE_SPECIES_LIST

The list of standard tree species codes used in describing forest stands in Ontario.

Column Name	Column Type	Mandatory	Short Name	Valid Values
TREE_SPECIES_CODE	VARCHAR2 (3)	Yes	SP_CODE	
A standard code that represents the tree species. For example, the code for Jack Pine is "Pj".				
TREE_SPECIES_NAME	VARCHAR2 (60)	No	SP_NAME	
The common name of a standard tree species used in describing forest stands in Ontario. For example, White Birch.				
SCIENTIFIC_NAME	VARCHAR2 (100)	No	SCI_NAME	
The scientific name (Genus and Species) of the tree species (e.g., Populus tremuloides for Trembling Aspen). In some cases, only the scientific genus will be identified for a generic grouping of tree species (e.g., Populus spp).				
FRI_COLLECTION_IND	VARCHAR2 (3)	No	COLL_IND	Yes, No
A yes or no indicator whether a species identified in this collection is called for, or positively identified during interpretation, and is applicable to the Forest Resources Inventory (FRI).				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
EXPIRY_DATETIME	DATE	No	EXP_DATE	
Date/time that the record was expired from use.				

LIO Lookup Table Values:
FCU_TREE_SPECIES_LIST

TREE SPECIES CODE	TREE SPECIES NAME	SCIENTIFIC NAME	FRI COLLECTION IND	EXPIRY DATETIME
AL	Alder, any or mixed	Alnus spp.	No	
AM	Mountain-Ash, any or mixed	Sorbus spp.	No	
AX	Ash, any or mixed	Fraxinus spp.	Yes	
Ab	Ash, Black	Fraxinus nigra	Yes	
Ag	Ash, Red (or Green)	Fraxinus pennsylvanica	No	
Ap	Ash, Pumpkin	Fraxinus profunda	No	
Aq	Ash, Blue	Fraxinus quadrangulata	No	
Aw	Ash, White	Fraxinus americana	Yes	
Bb	Blue-Beech (or American Hornbeam)	Carpinus caroliniana	No	
Bc	Birch, Cherry	Betula lenta	No	
Bd	Basswood	Tilia americana	Yes	
Be	Beech, American	Fagus grandifolia	Yes	
Bf	Fir, Balsam	Abies balsamea	Yes	
Bg	Birch, Grey	Betula populifolia	Yes	
Bl	Linden, Big Leaf	Tilia platyphyllos	No	
Bn	Butternut	Juglans cinerea	Yes	
Bp	Birch, European Weeping	Betula pendula	No	
Bw	Birch, White (or Paper)	Betula papyrifera	Yes	
By	Birch, Yellow	Betula alleghaniensis	Yes	
CE	Cedar, all	Thuja spp.	Yes	
CH	Cherry, any or mixed	Prunus, spp.	Yes	
Cat	Catalpa, Northern (or Bean-Tree)	Catalpa speciosa	No	
Cb	Cherry, Black	Prunus serotina	Yes	

Cc	Cherry, Choke	Prunus virginiana	No	
Cd	American Chestnut	Castanea dentata	Yes	
Cm	Cherry, Mazzard	Prunus avium	No	
Cp	Cherry, Pin (or Wild Red or Fire)	Prunus pensylvanica	No	
Cr	Cedar, Eastern Red (or Redcedar)	Juniperus virginiana	Yes	
Cs	Cherry, Sour	Prunus cerasus	No	
Ct	Cucumber Tree	Magnolia acuminata	No	
Cw	Cedar, Eastern White (or Northern White-Cedar)	Thuja occidentalis	Yes	
EX	Elm, any or mixed	Ulmus spp	Yes	
Ema	Mountain-Ash, European	Sorbus aucuparia	No	
Er	Elm, Red (or Slippery)	Ulmus rubra	No	
Eu	Elm, Rock	Ulmus thomasii	No	
Ew	Elm, White (or American)	Ulmus americana	Yes	
Gb	Black Gum	Nyssa sylvatica	No	
Gt	Locust, Honey	Gleditsia triacanthos	No	
Haz	Witch-Hazel, American	Hamamelis virginiana	No	
Hb	Hickory, Bitternut (or Swamp)	Carya cordiformis	No	
Hc	Horsechestnut	Aesculus hippocastanum	No	
He	Hemlock, Eastern	Tsuga canadensis	Yes	
Hi	Hickory, all	Carya spp.	Yes	
Hk	Hackberry	Celtix occidentalis	No	
HI	Hickory, Big Shellbark	Carya laciniosa	No	
Hm	Hickory, Mockernut	Carya tomentosa	No	
Hp	Hickory, Sweet Pignut	Carya glabra	No	
Hs	Hickory, Shagbark	Carya ovata	No	
Ht	Hawthorn	Crataegus spp.	No	
Iw	Ironwood (or Eastern Hop-Hornbeam)	Ostrya virginiana	Yes	

Kk	Kentucky Coffee-tree	Gymnocladus dioicus	No	
LO	Locust, Black and, or Honey	Robinia spp.	Yes	
La	Larch, Eastern (or American Larch or Tamarack)	Larix, laricina	Yes	
Lb	Locust, Black	Robinia pseudoacacia	No	
Le	Larch, European	Larix decidua	No	
Lj	Larch, Japanese	Larix leptolepis	No	
LI	Linden, Little Leaf	Tilia cordata	No	
MX	Maple, any or mixed	Acer spp.	Yes	
Mb	Maple, Black	Acer nigrum, (Acer saccharum ssp. nigrum)	No	
Mf	Maple, Freeman	Acer X freemanii	No	
Mh	Maple, Hard (or Sugar)	Acer saccharum	Yes	
Mm	Maple, Manitoba (or Box Elder)	Acer negundo	No	
Mn	Maple, Norway	Acer platanoides	No	
Mo	Mulberry, Red	Morus rubra	No	
Mp	Maple, Striped	Acer pensylvanicum	No	
Mr	Maple, Red (or Soft Maple)	Acer rubrum	Yes	
Ms	Maple, Silver	Acer saccharinum	Yes	
Mt	Maple, Mountain	Acer spicatum	No	
NON	No incidental tree species documented			
OC	Conifers, Other		Yes	
OH	Hardwoods, Other		Yes	
OX	Oak, any or mixed	Quercus spp.	Yes	
Ob	Oak. Bur (or Mossy-cup)	Quercus macrocarpa	No	
Obl	Oak, Black	Quercus nigra	No	
Och	Oak, Chinquapin	Quercus muehlenbergii	No	
Op	Oak, Pin (or Swamp)	Quercus palustris	No	
Or	Oak, Red (or Northern	Quercus rubra	Yes	

	Red)			
Os	Oak, Shumards (or Swamp Red)	Quercus shumardii	No	
Osw	Oak, Swamp White	Quercus bicolor	No	
Ow	Oak, White	Quercus alba	Yes	
PO	Poplar, any or mixed	Populus spp.	Yes	
PX	Pine, any or mixed	Pinus spp.	Yes	
Pa	Pawpaw	Asimina triloba	No	
Pb	Poplar, Balsam	Populus balsamifera	Yes	
Pc	Poplar, Carolina	Populus X canadensis	No	
Pd	Cottonwood, Eastern	Populus deltoides	Yes	
Pe	Poplar, Silver (or European White)	Populus alba	No	
Ph	Poplar, Hybrid	Populus	No	
Pj	Pine, Jack	Pinus banksiana.	Yes	
Pl	Aspen, Largetooth	Populus grandidentata	Yes	
Pn	Pine, Austrian (or Black)	Pinus nigra	No	
Pp	Pine, Pitch	Pinus rigida	No	
Pr	Pine, Red	Pinus resinosa	Yes	
Ps	Pine, Scotch	Pinus sylvestris	Yes	
Pt	Aspen, Trembling	Populus tremuloides	Yes	
Pw	Pine, White (or Eastern White)	Pinus strobus	Yes	
Red	Redbud	Cercis canadensis	No	
SX	Spruce, any or mixed	Picea spp.	Yes	
Sb	Spruce, Black	Picea mariana	Yes	
Sc	Spruce, Colorado (or Blue)	Picea pungens	No	
Sk	Spruce, Koyama	Picea koyamai	No	
Sn	Spruce, Norway	Picea abies	No	
Sr	Spruce, Red	Picea rubens	No	
Ss	Sassafras	Sassafras albidum	No	
Sw	Spruce, White	Picea glauca	Yes	
Sy	Sycamore	Platanus occidentalis	No	

ITp	Tulip Tree	Liriodendron tulipifera	No	_____
lwr	Willow, any or mixed	Salix spp.	lives	_____
lwb	Walnut, Black	Juglans nigra	lives	_____

LIO Table Relationships for Class:
Forest Genetics Zone

