Corporate Production GIS Metadata

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Layer Name: Tree_Inventory

General Information

Layer Name:	Tree_Inventory
# of Features:	99613
Status:	ACTIVE
Layer Source:	GIS_DATA.TREE
Layer Quality:	Generalized
Feature Accuracy:	+/- 2m
Type:	POINT
Description:	Inventory of street trees owned fully or partially by the City.
Projection:	NAD 83 UTM Zone 17N (EPSG 26917)
Disclaimer:	The City of Kitchener assumes no responsibility for the accuracy of the provided data. Any use of this information is done so at the users risk. Good survey practices must be applied when utilizing this information. The City of Kitchener and its partners have created this data for information purposes on an as-is and as available basis and is under no circumstances a substitute for a Legal Survey. The City does not make any representations or warranty, express or implied, concerning the accuracy, quality, likely results, or reliability of the use of the data. The City of Kitchener assumes no responsibility for any errors and is not liable for any damages of any kind resulting from the use of, or reliance on, the information and material contained in this layer. All information should be verified independently before being used or relied on. Users are encouraged to contact the City of Kitchener to ensure the accuracy of the information provided by Kitchener.

Source and Contraints

Source Map Label:	Street Trees: Corporate Services - Information Technology - GIS (Ortho Imagery - April 2003)
History:	During 1999 co-op students place points to represent visible street trees using the 1997 Ortho Imagery. The project was set up to create a point to represent each tree that is visible and within the road allowance to insure Kitchener's ownership. In March of 2001, student created tree_ids based on information provided by Dave Schmitt in Forestry. September 2002 all trees points were provided with a tree_id.
Original Source:	INS - Operations - Forestry
Original Source Process:	
Maintenance:	Dave Schmitt utilizes a mobile GIS application to identify and inventory new & replacement trees in parks and road re-construction projects. Expect that in future this functionality will be expanded so that field staff will complete and maintain this layer.
Current Info Source:	Forestry
Outstanding Issues:	Majority of trees have not been field verified and dataset is void of attributes. Service Agreement outstanding to formalize the delivery and update process through construction & development process as well as tree replacement program.
Update Frequency:	ON DEMAND

Data Fields & Domain Information

Tree_Inventory

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
OBJECTID	OBJECTID	NUMBER	ESRI system maintained integer field used to uniquely identify rows in tables in a geodatabase. Note that OBJECTIID values change upon export or import of the data and should not be used as a primary field for searching or identifying records.			
TREEID	Tree ID	NUMBER	Tree identifier. Created through a database trigger			
CIVIC_NO	Closest Civic No	NUMBER	Integer value. Civic address of the feature.			
STREET	Street	VARCHAR2	Street name of the feature based on the STREET MASTER Table.	RoadName		401 LON OFFRAMP; YARWOOD PL; YELLOW BIRCH DR; YORK ST; YOUNG ST; YULE PL; ZEFFER PL; ZELLER CRES; ZELLER CRT; ZELLER DR ...See GIS for a complete list...
LOCATION	Location	VARCHAR2	Open text field that describes the location of the feature in more detail.	TreeLocation		BOULEVARD; CEMETERY; CENTRE MEDIAN; CITY PARK; GOLF COURSE; HARDSCAPE; NATURAL AREA; OTHER MAINTAINED LOCATION; OTHER UN-MAINTAINED LOCATION; RAISED PLANTER

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
STATUS	Status	VARCHAR2	Indicates the status of feature. A pick list is used for this field - contact GIS for pick list values.	TreeStatus	ACTIVE	ACTIVE; FIELD MISTAKE - DELETE; PLANNED PLANTING; POTENTIAL PLANTING; REMOVED
STATUS_DATE	Status Date	TIMESTAMP(6)	Database maintained field. Updates to the current date/time when the STATUS field value is changed.			
OWNERSHIP	Ownership	VARCHAR2	Asset Owner: Who owns the feature, Generally Government agencies such as CITY, REGION and MTO and private citizens and businesses shown as PUBLIC. This usually relates to the property the asset sits on.	TreeOwnership	CITY	CITY; CITY < 50%; CITY > 50% TO 99%; PRIVATE
CATEGORY	Map Class	VARCHAR2	GIS mapping category used for symbolizing maps. Categories of trees are set in the Tree species domain table	TreeCategory		Amur; Pawpaw; Pear; Pine; Poplar; Serviceberry; Small Tree; Spruce; Tamarack; Willow ...See GIS for a complete list...
SPECIES_NAME	Species Name	VARCHAR2	The common name of the tree	TreeSpeciesName		Deborah Norway Maple; Willow; Winged Elm; Winter King Hawthorn; Witch Hazel; Yellow Birch; Yellow Buckeye; Yellowwood; Yew; Zelkova 'Wireless' ...See GIS for a complete list...

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
SPECIES_LATIN	Species Latin	VARCHAR2	The Latin name of the tree. It is automatically filled in based on the Species Name from the Tree Species Domain table	TreeSpeciesLatin		Abies balsamea; Sorbus alnifolia; Sorbus americana; Sorbus aucuparia; Sorbus x hybrida; Syringa reticulata 'Ivory Silk'; Syringa vulgaris; Taxodium distichum; Taxus species; Thuja occidentalis ...See GIS for a complete list...
SPECIES_CODE	Species Code	VARCHAR2	The species code of the tree. It is automatically filled in based on the Species Name from the Tree Species Domain table	TreeSpeciesCode		SAAM; ULXAC; ULXFR; ULXHO; ULXNE; ULXPI; ULXTR; UNKN; ZESE; ZESESCH ...See GIS for a complete list...
OVERHEAD_HYDRO	Type of Hydro above tree	VARCHAR2	Type of overhead hydro found adjacent to tree. Initial values where entered using a script based on hydro layers	TreeOverheadHydro	None	House service; None; Single phase; Three phase
LANDUSE	AMANDA Land use	VARCHAR2	AMANDA land use category of the property tree is located on	ParcelCategory		AGRICULTURAL; COMMERCIAL; ERROR; INDUSTRIAL; INSTITUTIONAL; MIXED USE; RECREATIONAL; RESIDENTIAL; ROW; UTILITY
DEVELOPMENT_AGE	Development Age	VARCHAR2	Development Age based on nearby parcels and subdivision plans			
PARCELID	Parcel ID	NUMBER	Reference Parcel ID that the feature is located in. The value is either manually entered or generated from a spatial join process.			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
ROADSEGMENTID	Roadsegment ID	NUMBER	Reference ROADSEGMENTID that the feature is located in. The value is generated from a spatial join process.			
PARK	Park	VARCHAR2	Name of the park the tree is located in. Note that parks do not extend in to the road allowance so data must be manually checked	ParkName		ABRAM STAUFFER GREEN; WOODFIELD COURT WOODLAND; WOODSIDE GREEN; WOODSIDE NATIONAL HISTORIC PARK (FEDERAL); WOODSIDE PARK; WOOLNER - SWP; WOOLNER WOODS; WOOLWICH STREET WOODLOT; YELLOW BIRCH PARK; ZELLER PARK ...See GIS for a complete list...
WARD	Ward	NUMBER	Reference Ward that the feature is located in. The value is either manually entered or generated from a spatial join process.	WardCodedValues		
PLANNING_COMMUNITY	Planning Community	VARCHAR2	GIS maintained field. Reference Planning Community that the feature is located in. The value is either manually entered or generated from a spatial join process.	PlanningCommunity		Auditorium (14); Central Frederick (13); Civic Centre (2); Laurentian West (28); Mill Courtland Woodside Park (5); Pioneer Tower East (40); Pioneer Tower West (41); Rosenberg (54); Southdale (17); Vanier (25) ...See GIS for a complete list...

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
SUB_WATERSHED	Sub-Watershed	VARCHAR2	Sub watershed number the tree is located in	StmSubwatershed		ALDER CREEK; NONE; NORTH STRASBURG CREEK; UNNAMED CATCHMENT 1; UNNAMED CATCHMENT 2; UNNAMED CATCHMENT 3; UNNAMED CATCHMENT 4; UPPER SCHNEIDER CREEK; VOISIN CREEK; WESTMOUNT CREEK ...See GIS for a complete list...
MAP_DBH_CM	Mapping DBH (cm)	NUMBER	GIS Mapping field used for symbolizing maps. It is the diameter of the tree at breast height (1.3 m above the ground) in centimetres. If the diameter cannot be taken at that height, take the DBH at the closest point below the branching. Updated by the latest measurement inspection through the database.			
GIS_NOTES	Notes	VARCHAR2	Open text field for outlining any problems or to highlight special characteristics of the feature specific to GIS.			
ROOT_PATHWAYS	Root Pathways	VARCHAR2	Information about if the tree was planted with rootpathways under hard structures such a sidewalks and walkways	YesNoOnly	Y	No; Yes
SOIL_VOLUME_M3	Soil Volume (m3)	NUMBER	Soil volume around tree planting in cubic metres			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
PLANTED_BY	Planted by	VARCHAR2	Department or contractor that planted the tree	TreePlantedBy		CONTRACTOR - BOMAR LANDSCAPING; CONTRACTOR - CAMBRIDGE GARDEN CENTRE; CONTRACTOR - COPPER HILL GROUP; CONTRACTOR - JOHNS NURSERY LTD; CONTRACTOR - KLOMPS LANDSCAPING INC; CONTRACTOR - THE GORDON COMPANY; CONTRACTOR - TWIN CITY INTERLOC INC; FORESTRY; RESIDENT; UNKNOWN ...See GIS for a complete list...
MONTH_PLANTED	Month Planted	VARCHAR2	Month tree was planted	TreeMonth		AUGUST; DECEMBER; JANUARY; JULY; JUNE; MAY; NOVEMBER; OCTOBER; SEPTEMBER; UNKNOWN ...See GIS for a complete list...
YEAR_PLANTED	Year Planted	NUMBER	Year Tree was planted. Only filled in for new trees, we have no history on older trees			
STOCK_TYPE	Stock Type	VARCHAR2	Type of stock planted	TreeStockType		BALL AND BURLAP; BAREROOT; CONTAINER; UNKNOWN; WIRE BASKET

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
STOCK_SIZE	Stock Size	VARCHAR2	Size of stock planted. There are mixed units because the ones in cm are based on a height measurement (smaller tree stock), and the mm are based on a diameter measurement similar to DBH, but taken at a lower distance from the ground.	TreeStockSize		200 cm; 250 cm; 30 mm; 40 mm; 50 mm; 60 mm; 70 mm; 80 mm; < 30 mm
WARRANTYDATE	Warranty Date	TIMESTAMP(6)	Warranty date of the tree.			
INITIAL_ACCEPTANCE_DATE	Initial Warranty Acceptance Date	TIMESTAMP(6)	Date warrany initial acceptance was given			
FINAL_ACCEPTANCE_DATE	Final Warranty Acceptance Date	TIMESTAMP(6)	Date warrany final acceptance was given			
HEIGHT_ESTM_LIDAR_2014_M	Estimated tree height from 2014 LiDAR (m)	NUMBER	Height estimate of tree as derived from 2014 LiDAR			
HEIGHT_ESTM_LIDAR_2019_M	Estimated tree height from 2019 LiDAR (m)	NUMBER	Height estimate of tree as derived from 2019 LiDAR			
CREATE_BY	Create By	VARCHAR2	Database maintained field. Updates to the user name that created the feature. Update takes place when the feature is created.			
CREATE_DATE	Creation Date	TIMESTAMP(6)	Database maintained field. Updates to the current data/time. Update takes place when the feature is created.			
CREATE_YEAR	Year Created	VARCHAR2	Year the tree record was create. This is a database maintained feild			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
CREATE_MONTH	Month Created	VARCHAR2	Month the tree record was create. This is a database maintained feild	TreeMonth		AUGUST; DECEMBER; JANUARY; JULY; JUNE; MAY; NOVEMBER; OCTOBER; SEPTEMBER; UNKNOWN ...See GIS for a complete list...
UPDATE_BY	Update By	VARCHAR2	Database maintained field. Updates to the user name that most recently updated either an attribute or the geometry of the feature. Update takes place when the feature is created and/or changed.			
UPDATE_DATE	Update Date	TIMESTAMP(6)	Database maintained field. Updates to the current data/time when an attribute or the geometry of the feature is changed. Update takes place when the feature is created and/or changed.			
SOURCE	Source	VARCHAR2	GIS maintained field. Source EDRA (Electronic Document Registration Application) document number, or name of department or specific staff member that the information came from.	TreeSource		Cityworks Request; Correction; Road Reconstruction; Tree Inventory; Tree Planting Project
SOURCE_DATE	Source Date	TIMESTAMP(6)	GIS maintained field. Date of the source document or information.			
SHAPE	SHAPE	ST_GEOMETRY	ESRI system maintained field. Stores the geometry type and geometry of the feature.			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
TAG1	Tag1	VARCHAR2	Temporary location to store short term data for mapping purposes only.			
GLOBALID	GLOBALID	CHAR	ESRI system maintained field. It is a UUID (Universal Unique Identifier) in which values are automatically assigned by the geodatabase when a table row is created.			
INSPECTED_YEAR	Last Year tree was inspected	VARCHAR2	Last year inspected, the year is transfered to this layer from tree inspection layer through a mobile app			
SPECIES_GENUS	SPECIES_GENUS	VARCHAR2	Genus of tree			
YEAR_PRUNED	Last year tree was pruned	NUMBER	Last year tree was pruned as transfered from CW closed Work orders			
PRUNING_BLOCK	PRUNING_BLOCK	NUMBER	10 year planning cycle for tree pruning based on agregated planning communities			
PRUNING_SUBBLOCK	PRUNING_SUBBLOCK	NUMBER	Sequence of streets from west to east across pruning blocks to create smaller pruning areas			
PRUNING_ROUTE	PRUNING_ROUTE	NUMBER	Punning route + pruning block to create a route			
HEIGHT_ESTM_LIDAR_2025_M	HEIGHT_ESTM_LIDAR_2025_M	NUMBER				

*Layer Quality:
SCHEMATIC - spatial representation of features are not to scale and not in accurate relative position to other features on other layers.
GENERALIZED - position of features are approximate, should not be used in conjunction with base layers (parcel fabric or Ortho-imagery)
GOOD - position of features are usually based on relative position to base layers (Ortho-imagery or parcel fabric)

Note: Dataset may not include all fields: Open Data layers will only include fields approved for sharing as open data

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