Stadt Zürich
Grün Stadt Zürich

Tree cadastre - GeoServer

Data documentation

Extract from 01.11.2022

1. Contacts

1.1 responsible for geodata (data owner)

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2. Content / Identification

2.1 Filing location

GeoServer

2.2 Brief description

The tree cadastre records all urban trees in the street space that are managed or maintained by Grün Stadt Zürich. The tree register is supplemented by the fruit tree inventory as well as trees from selected public green spaces and private trees.

2.3 Purpose

The tree cadastre is used for the management of trees in public spaces. It is an aid for the care of these trees and for the replacement of "old" trees. In addition, it is an important source of information for planners and project planners who want to find out about existing tree locations. Interested parties should be able to obtain up-to-date and precise information on tree species and tree locations at any time.

2.4 Topics

- Environment, nature conservation
- Forest, Flora, Fauna

2.5 Keywords

Tree, Street Tree, Fruit Tree

3. Date / Tracking

3.1 Last data update

24.10.2022

3.2 Last GeoServer import

29.10.2022

3.3 Tracking frequency

Weekly

3.4 Processing status

Ongoing

4. Extension / reference system / scale

4.1 Extension xy [m]

x Min: 2670000x y Max: 1260000 y Min: 1223000 Max: 2696000

4.2 Geographical area

City of Zurich and neighbouring municipalities

4.3 Reference system

CH1903+_LV95

4.4 Comparative scale

1: 500

4.5 Area brief description

Trees within and occasionally outside the city of Zurich are included.

5. Data format

5.1 Display type

Vector

5.2 Data format

ESRI File Geodatabase
DXF
ESRI Shape
Interlis
ESRI SDE GDB

6. Data distribution / visualisation / additional information

6.1 Submission format

The dataset can be obtained in the following formats:

- ESRI Shape (.shp)
- Comma Separated Values (.csv)
- GeoJSON (.json)
- Geopackage (.gpkg)
- DXF (.dxf)

6.2 Legal basis

6.3 Terms of use

1. Usage regulation

These geodata [These geoservices] are licensed under the internationally valid Creative Commons Zero (CC-0) licence. You may:

- reproduced, distributed and made further accessible,
- enriched and edited,
- be used commercially.

A reference to the source (CC-BY) is recommended: It reads: "Source: City of Zurich".

2. Disclaimer

The agency responsible in the administration of the City of Zurich pursuant to Art. 8 para. 1 GeoIG (SR 510.62) excludes all liability for direct and indirect damage resulting from the use of the geodata [use of geoservices]. It does not guarantee the up-to-dateness, correctness, completeness and accuracy of the published geodata [geoservices offered].

3. Framework conditions

- Regulations on Open Administrative Data, RO 170.410
- Municipal Geoinformation Regulations (StGeoIR), AS 704.100

6.4 Data collection

The tree cadastre was digitised based on analogue plans. Since 2001, the tree locations have been measured tachymetrically. The accuracy of the centre of the trunk is 1cm to 30cm for tachymetrically surveyed tree locations. Private trees and trees in green spaces are usually surveyed with an accuracy of 0.5 to 2m.

6.5 Data basis

This dataset is dependent on the following datasets:

Digitisation basis, calculation basis (e.g. natural value index)

6.6 Documentation (.html)

Further information on the dataset can be found at:

6.7 Comments

The tree cadastre records all urban trees in the street space that are managed or maintained by Grün Stadt Zürich. The tree register is supplemented by the fruit tree inventory as well as trees from selected public green spaces and private trees. The main cause of mutations is the annual replacement of street trees.
All condition assessments and maintenance measures in the green spaces are also recorded. An area-wide registration of trees in green spaces is planned, but will be implemented gradually. The tree cadastre is made available to the public via a WebGIS application.

7. Information about the geometry data

7.1 Geo(meta)data area

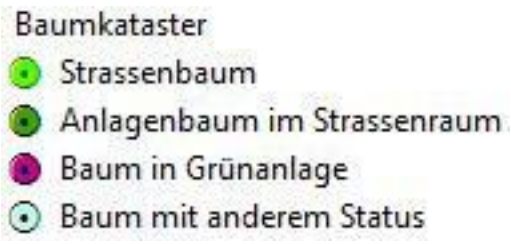
Database

7.2 Geometry data last change

10.03.2022

8. Representation / Legend

The dataset is usually presented according to the figure below.



9. Geodata elements

9.1 TREE_CADASTRE_TREE_LOCATIONS

Description: Tree locations in the city of Zurich

Positional accuracy: Data source: Geometry type: GSZ_SDE.BAUMKATASTER_BAUMSTANDORTE Point

Name	Type	Unit	Description	Mandatory field	Code list
Crown diameter	INTEGER		Crown diameter in m. The Crown diameters in the tree cadastre are incomplete, become irregular and are only estimates. At Trees for which no crown diameters is available, a diameter of 8m used.	no	
OBJECTID	LONG INTEGER		ESRI identification number (system default)	yes	
PLANT YEAR	LONG INTEGER		Year in which the tree was planted. Is not known for all trees.	no	
TREE TYPE	LONG INTEGER		Description of the growth habit. Coded Domain 1: Height: >20m, width: >10m; large-crowned, wide growing trees 2: Height: >20m, width: <10m; large-crowned, narrow growing trees 3: Height: 10-20m, width: >10m; medium, wide growing trees 4: Height:10-20m, width: <10m; medium, narrow growing trees 5: Height: <10m, Width: <10m; small-crowned Trees 6: Fruit trees	no	yes
GEOMETRY	SHAPE		ESRI geometry type	yes	
STATUS	STRING		Categorisation of the trees. - Roadside tree: Tree that is completely Street space stands - Street tree (A): Tree in a Green space, which will define the street space co-designed - Green space: Tree in a green space (important: not all green space trees are recorded)	yes	

- Confederation: Trees growing on properties in the
Property of the Confederation

Name	Type	Unit	Description	Mandatory field Code list
			- Canton: Trees growing on properties in the Property of the Canton - Schools: Trees on school grounds - Private: Trees on private property - Fruit: separately recorded fruit trees that are not fall into a different category	
ACCURACY	STRING		Type of coordinate determination - Screen input - Digitisation or ELTA2 - Calibrated - Measured in (replanting) - Aerial view - Unknown source	no
TREE TYPE TEXT	STRING		Circumscription of the growth habit. Coded Domain 1: Height: >20m, width: >10m; large-crowned, broad-growing trees 2: Height: >20m, width: <10m; large-crowned, narrow-growing trees 3: Height: 10-20m, width: >10m; medium sized, broad growing trees. 4: Height: 10-20m, width: <10m; medium sized, narrow growing trees. 5: Height: <10m, width: <10m; small-crowned trees 6: Fruit trees	yes
TREE NUMBER	STRING		Unique tree number. Survey district (e.g. AL for Altstetten) + "-" + unique identification number per survey district.	yes
TREE NAMEDEU	STRING		Genus, species and variety (German)	yes
TREE NAMELATE	STRING		Genus, species and variety (Latin)	yes
BAUMARTLAT	STRING		Species (Latin)	no
BAUMGATTUNGLAT	STRING		Genus (Latin)	yes
STREET	STRING		Road by the tree	no
QUARTER	STRING		Name of the statistical quarter in which the tree is located	yes
CATEGORY	STRING		Category for Züriplan (summary from attribute Status): - "Street tree": Attribute 'STATUS', values 'Street tree' + 'Street tree (A)'. - "Green space": Attribute 'STATUS', value 'Green space'	yes
POI_ID	STRING		Identification number for Züriplan "bm_" + OBJID	yes
OBJID	STRING		Interlis/Geomedia identification number (system default)	yes

9.2 TREE_CADASTRE_CROWN_DIAMETER

Description: Representation of the crown diameter for the CAD export. The crown diameters in the tree cadastre are incomplete, are tracked irregularly and are only estimates. For trees where no crown diameter is available, a diameter of 8m is used.

Position accuracy: Data source: Geometry type: GSRP.GSZ_SDE.TREE_CADASTRE_CROWN_DIAMETER Polygon

Name	Type	Unit	Description	Mandatory field Code list
OBJECTID	LONG INTEGER		ESRI identification number (system default)	yes
GEOMETRY	SHAPE		ESRI geometry type	yes
TREE NUMBER	STRING		Unique tree number. Survey district (e.g. AL for Altstetten) + "- " + unique identification number per survey district	yes

9.3 TREE_SITES_K

Description: Representation of the tree location as a circle (10cm radius) for CAD export.

Positional accuracy: Data source: Geometry type: GSRP.GSZ_SDE.TREE_SITES_K Polygon

Name	Type	Unit	Description	Mandatory field	Code list
OBJECTID	LONG INTEGER		ESRI identification number (system default)	yes	
GEOMETRY	SHAPE		ESRI geometry type	yes	
TREE NAMEDEU	STRING		Genus, species and variety (German)	yes	