

New York City Atomic Polygons

ESRI Shapefile

Tags

Atomic Polygon, boundary, boundaries, districts, LION, CSCL, Department of City Planning, DCP, New York City, NYC, LIONdistricts

Summary

Atomic polygons are a set of basic building blocks to generate Atomic Polygon-based district hierarchies.

Description

Atomic polygons serve as a set of basic building blocks for generating the polygons of many of the district types represented in the CSCL database. Feature classes such as election district, school district, census block, FDNY administrative company, and community district can be dissolved by combining the appropriate fields in atomic polygons.

Credits

Department of City Planning (DCP)

Use limitations

This dataset is being provided by the Department of City Planning (DCP) on DCP's website for informational purposes only. DCP does not warranty the completeness, accuracy, content, or fitness for any particular purpose or use of the dataset, nor are any such warranties to be implied or inferred with respect to the dataset as furnished on the website. DCP and the City are not liable for any deficiencies in the completeness, accuracy, content, or fitness for any particular purpose or use the dataset, or applications utilizing the dataset, provided by any third party.

Extent

West -74.260380 **East** -73.699206
North 40.917691 **South** 40.477211

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE boundaries

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Bronx, Richmond, New York, Queens, Staten Island, New York City, Brooklyn, Kings, Manhattan

THEME KEYWORDS boundaries, Atomic Polygons

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE New York City Atomic Polygons

CREATION DATE 10/24/2023

PUBLICATION DATE 11/20/2023

EDITION 23D

PRESENTATION FORMATS * digital map

SERIES

NAME BYTES of the BIG APPLE

ISSUE 23D

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME New York City Department of City Planning (DCP)

CONTACT'S ROLE publisher

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT 120 Broadway, 31st Floor

CITY New York

ADMINISTRATIVE AREA NY

POSTAL CODE 10271

E-MAIL ADDRESS DCPopendata@planning.nyc.gov

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.6.1.9328

CREDITS

Department of City Planning (DCP)

ARCGIS ITEM PROPERTIES

* NAME nyap

LOCATION withheld

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

ground condition

EXTENT

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

- * WEST LONGITUDE -74.260380
- * EAST LONGITUDE -73.699206
- * NORTH LATITUDE 40.917691
- * SOUTH LATITUDE 40.477211
- * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- * WEST LONGITUDE 912287.068787
- * EAST LONGITUDE 1067382.508423
- * SOUTH LATITUDE 113279.346985
- * NORTH LATITUDE 273617.843201
- * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME New York City Department of City Planning (DCP)
CONTACT'S ROLE publisher

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT 120 Broadway, 31st Floor

CITY New York

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY quarterly

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

OTHER CONSTRAINTS

The data is freely available to all New York City agencies and the public.

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CONSTRAINTS

LIMITATIONS OF USE

This dataset is being provided by the Department of City Planning (DCP) on DCP's website for informational purposes only. DCP does not warranty the completeness, accuracy, content, or fitness for any particular purpose or use of the dataset, nor are any such warranties to be implied or inferred with respect to the dataset as furnished on the website. DCP and the City are not liable for any deficiencies in the completeness, accuracy, content, or fitness for any particular purpose or

use the dataset, or applications utilizing the dataset, provided by any third party.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_StatePlane_New_York_Long_Island_FIPS_3104_Feet
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

- WELL-KNOWN IDENTIFIER 102718
- X ORIGIN -450359962737.04999
- Y ORIGIN -450359962737.04999
- XY SCALE 10000
- Z ORIGIN -100000
- Z SCALE 10000
- M ORIGIN -100000
- M SCALE 10000
- XY TOLERANCE 0.000200000000000000001
- Z TOLERANCE 0.001
- M TOLERANCE 0.001
- HIGH PRECISION true
- LATEST WELL-KNOWN IDENTIFIER 2263

WELL-KNOWN TEXT

PROJCS["NAD_1983_StatePlane_New_York_Long_Island_FIPS_3104_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_Nortl

REFERENCE SYSTEM IDENTIFIER

- * VALUE 2263
- * CODESPACE EPSG
- * VERSION 5.3(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

- FEATURE CLASS NAME nyap
- * OBJECT TYPE composite
- * OBJECT COUNT 69490

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES



- FEATURE CLASS NAME nyap
- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polygon
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 69490
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►
RESOURCE LEVEL dataset

Hide Scope of quality information ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►
DIMENSION horizontal

Hide Data quality report - Absolute external positional accuracy ▲

Hide Data Quality ▲

Distribution ►

DISTRIBUTOR ►
CONTACT INFORMATION
ORGANIZATION'S NAME New York City Department of City Planning
CONTACT'S ROLE distributor

CONTACT INFORMATION ►
ADDRESS
TYPE both
DELIVERY POINT 120 Broadway, 31st Floor
CITY New York
ADMINISTRATIVE AREA New York
POSTAL CODE 10271
COUNTRY US

CONTACT INSTRUCTIONS
Available at the following website: <https://www1.nyc.gov/site/planning/data-maps/open-data.page>

Hide Contact information ▲

ORDERING PROCESS
TERMS AND FEES Free

Hide Distributor ▲

DISTRIBUTION FORMAT
NAME ESRI Shapefile
VERSION Open Specification

TRANSFER OPTIONS
ONLINE SOURCE
LOCATION <https://www1.nyc.gov/site/planning/data-maps/open-data.page>

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT nyap ►
* TYPE Feature Class
* ROW COUNT 69490

FIELD OBJECTID
►
* ALIAS OBJECTID
* DATA TYPE OID
* WIDTH 4
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Internal feature number.

* DESCRIPTION SOURCE
Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

FIELD AssemDist



- * ALIAS ASSEMDIST
- * DATA TYPE String
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

State Assembly District Number

[Hide Field AssemDist ▲](#)

FIELD SHAPE_Length



- * ALIAS Shape_Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

* FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field SHAPE_Length ▲](#)

FIELD BOROUGH



- * ALIAS BOROUGH
- * DATA TYPE String
- * WIDTH 1
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Borough Code

LIST OF VALUES

VALUE 1

DESCRIPTION Manhattan

VALUE 2

DESCRIPTION Bronx

VALUE 3

DESCRIPTION Brooklyn

VALUE 4

DESCRIPTION Queens

VALUE 5

DESCRIPTION Staten Island

[Hide Field BOROUGH ▲](#)

FIELD WATER_FLAG



* ALIAS WATER_FLAG

* DATA TYPE String

* WIDTH 1

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Flag to indicate the relationship of the Atomic Polygon to water

LIST OF VALUES

VALUE Water

DESCRIPTION Atomic polygon is under water that is part of the shoreline

VALUE Non-Water

DESCRIPTION Atomic polygon is on land

VALUE Internal Water

DESCRIPTION Atomic polygon is under water that is not part of the shoreline (lake, pond, reservoir, etc.)

VALUE Pier

DESCRIPTION Atomic polygon is on a pier or structure over water

[Hide Field WATER_FLAG ▲](#)

FIELD CENSUSBLOCK_2000



* ALIAS CENSUSBLOCK_2000

* DATA TYPE String

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

String value of the 2000 census block number.

[Hide Field CENSUSBLOCK_2000 ▲](#)

FIELD CENSUSBLOCK_2000_SUFFIX



* ALIAS CENSUSBLOCK_2000_SUFFIX

* DATA TYPE String

* WIDTH 1

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

An alphabetic suffix for the 2000 census block.

[Hide Field CENSUSBLOCK_2000_SUFFIX ▲](#)

FIELD CENSUSTRACT_2000



* ALIAS CENSUSTRACT_2000

* DATA TYPE String

* WIDTH 6

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

String value of the 2000 census tract number.

[Hide Field CENSUSTRACT_2000 ▲](#)

FIELD CENSUSBLOCK_2010



* ALIAS CENSUSBLOCK_2010

* DATA TYPE String

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

String value of the 2010 census block number.

[Hide Field CENSUSBLOCK_2010 ▲](#)

FIELD CENSUSBLOCK_2010_SUFFIX



* ALIAS CENSUSBLOCK_2010_SUFFIX
* DATA TYPE String
* WIDTH 1
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

An alphabetic suffix for the 2010 census block.

[Hide Field CENSUSBLOCK_2010_SUFFIX ▲](#)

FIELD CENSUSTRACT_2010



* ALIAS CENSUSTRACT_2010
* DATA TYPE String
* WIDTH 6
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

String value of the 2000 census tract number.

[Hide Field CENSUSTRACT_2010 ▲](#)

FIELD CENSUSTRACT_1990



* ALIAS CENSUSTRACT_1990
* DATA TYPE String
* WIDTH 6
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

String value of the 1990 census tract number.

[Hide Field CENSUSTRACT_1990 ▲](#)

FIELD ADMIN_FIRE_COMPANY



* ALIAS ADMIN_FIRE_COMPANY
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The fire company number servicing the district.

[Hide Field ADMIN_FIRE_COMPANY ▲](#)

FIELD Shape



* ALIAS Shape
* DATA TYPE Geometry
* WIDTH 0
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

ESRI

* DESCRIPTION OF VALUES

Coordinates defining the features.

[Hide Field Shape ▲](#)

FIELD ELECTDIST

▶
* ALIAS ELECTDIST
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Three digit election district number

[Hide Field ELECTDIST ▲](#)

FIELD SCHOOLDIST

▶
* ALIAS SCHOOLDIST
* DATA TYPE String
* WIDTH 2
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

The two digit school district number

[Hide Field SCHOOLDIST ▲](#)

FIELD COMMDIST

▶
* ALIAS COMMDIST
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Community district number preceded by BoroCode

[Hide Field COMMDIST ▲](#)

FIELD SB1_VOLUME

▶
* ALIAS SB1_VOLUME
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

First Sanborn volume the atomic polygon appears in

[Hide Field SB1_VOLUME ▲](#)

FIELD SB1_PAGE

▶
* ALIAS SB1_PAGE
* DATA TYPE String
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

First Sanborn page the atomic polygon appears in

[Hide Field SB1_PAGE ▲](#)

FIELD SB2_VOLUME

▶
* ALIAS SB2_VOLUME
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Second Sanborn volume the atomic polygon appears in

[Hide Field SB2_VOLUME ▲](#)

FIELD SB2_PAGE

▶
* ALIAS SB2_PAGE
* DATA TYPE String
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Second Sanborn page the atomic polygon appears in

[Hide Field SB2_PAGE ▲](#)

FIELD SB3_VOLUME

▶
* ALIAS SB3_VOLUME
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Third Sanborn volume the atomic polygon appears in

[Hide Field SB3_VOLUME ▲](#)

FIELD SB3_PAGE

▶
* ALIAS SB3_PAGE
* DATA TYPE String
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Third Sanborn page the atomic polygon appears in

[Hide Field SB3_PAGE ▲](#)

FIELD ATOMICID

▶
* ALIAS ATOMICID
* DATA TYPE String
* WIDTH 10
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Unique ID for the atomic polygon

[Hide Field ATOMICID ▲](#)

FIELD ATOMIC_NUM

▶
* ALIAS ATOMIC_NUM
* DATA TYPE String
* WIDTH 3
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Atomic Number is the 3 last digits of the Atomic ID. This field has been deprecated and is no longer maintained (all NULL values)

[Hide Field ATOMIC_NUM ▲](#)

FIELD Shape_Area

▶
* ALIAS Shape_Area
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

* FIELD DESCRIPTION

Area of feature in internal units squared.

* DESCRIPTION SOURCE
ESRI

* DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

[Hide Field Shape_Area ▲](#)

FIELD HURRICANE_EVACUATION_ZONE

▶
* ALIAS HURRICANE_EVACUATION_ZONE
* DATA TYPE String
* WIDTH 2
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Hurricane Evacuation Zone. New York City's hurricane contingency plans are based on six evacuation zones: 1, 2, 3, 4, 5, 6. The value of 0 represents water polygons and the value of X indicates land that is not part of an evacuation zone. (Note: field name may appear as "Hurricane_" in shapefile due to ESRI character limit)

DESCRIPTION SOURCE
NYCEM

[Hide Field HURRICANE_EVACUATION_ZONE ▲](#)

FIELD CENSUSTRACT_2020

▶
* ALIAS CENSUSTRACT_2020
* DATA TYPE String
* WIDTH 6
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

String value of the 2020 census tract number.

[Hide Field CENSUSTRACT_2020 ▲](#)

FIELD CENSUSBLOCK_2020

▶
* ALIAS CENSUSBLOCK_2020
* DATA TYPE String
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

String value of the 2020 census block number.

[Hide Field CENSUSBLOCK_2020 ▲](#)

FIELD CENSUSBLOCK_2020_SUFFIX

▶
* ALIAS CENSUSBLOCK_2020_SUFFIX
* DATA TYPE String
* WIDTH 1
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

An alphabetic suffix for the 2020 census block.

[Hide Field CENSUSBLOCK_2020_SUFFIX ▲](#)

FIELD COMMERCIAL_WASTE_ZONE

▶
* ALIAS Commercial Waste Zone
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

As part of the Department of Sanitation's (DSNY) comprehensive plan for reforming the private carting industry, it has established Commercial Waste Zones (CWZ). These 20 zones were designed to limit the number of carters that serve the commercial establishments of a geographic area of the city, thereby reducing noise pollution, reducing greenhouse gas emissions, and increasing public safety.

The new field contains 4 characters consisting of the borough initials MN, BX, BK, QN, and SI, a one-digit number, and an optional suffix letter (currently "A" or "B").

DESCRIPTION SOURCE
DSNY

[Hide Field COMMERCIAL_WASTE_ZONE ▲](#)

[Hide Details for object nyap ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset
SCOPE NAME * dataset

* LAST UPDATE 2023-11-03

ARCGIS METADATA PROPERTIES
METADATA FORMAT ArcGIS 1.0

CREATED IN ARCGIS FOR THE ITEM 2015-03-09 16:53:08
LAST MODIFIED IN ARCGIS FOR THE ITEM 2023-11-03 11:41:06

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2023-11-03 11:41:06

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT
ORGANIZATION'S NAME New York City Department of City Planning (DCP)
CONTACT'S ROLE publisher

CONTACT INFORMATION ►
ADDRESS
DELIVERY POINT 120 Broadway, 31st Floor
CITY New York
ADMINISTRATIVE AREA NY
POSTAL CODE 10271
E-MAIL ADDRESS DCPopendata@planning.nyc.gov

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY quarterly

[Hide Metadata Maintenance ▲](#)