

Holding the Line Yet Pushing the Boundaries

October 22, 2017

NYS GIS Program Office Robert Gehrer, Program Manager Karen Henry, Technical Lead

Where We Are Today





Civil Boundaries Feature Classes

New York State





Civil Boundaries Feature Classes

New York State State Shoreline





Civil Boundaries Feature Classes

Counties





Civil Boundaries Feature Classes

Counties

Counties Shoreline





Civil Boundaries Feature Classes

Cities & Towns





Civil Boundaries Feature Classes

9

Cities & Towns Villages

8 Villages in more than one County
75 Villages in more than one Town
6 Villages in three Towns
5 Coterminous Towns and Villages

NEW YORK

STATE OF OPPORTUNITY. Office of Information

Technology Services



Civil Boundaries Feature Classes

Cities & Towns

Villages

Indian Territories

10 Territories in NY





Civil Boundaries 7 Feature Classes State **State Shoreline Counties Counties Shoreline Cities & Towns** Villages **Indian Territories**



Where We Are Today

Legal Changes

- Annexations
- Dissolutions
- Incorporations

Spatial Improvement

- Street Centerlines (SAM)
- Address Points (SAM)
- Orthoimagery
- Parcels
- Hydrography



Where We Are Today

911/Computer Aided Dispatch

- Current operations: State and County levels
- Next Generation 911
 - a) Advisory Role
 - b) NG9-1-1 GIS Technical Subcommittee

2020 Census

Assisting NYS Datacenter (DOL) with Boundary and Annexation Survey (BAS)



The Work Being Done



The Work Being Done

1. Legal Changes 2. Spatial Improvements **Civil Boundaries** Feature Classes State **State Shoreline Counties Counties Shoreline Cities & Towns** Villages **Indian Territories**



Office of Information Technology Services

Legal Changes

Department of State Local Law Files

Properties are identified by:

- Metes and Bounds
- Parcel Address
- Parcel #
- Map



Legal Changes

Department of State Local Law Files

Properties are identified by:

- Metes and Bounds
- Parcel Address
- Parcel #
- Map



Spatial Improvements

- Orthoimagry
 As of 2014 min. 1 Foot resolution
 ± 4 ft horizontal accuracy
- Street Centerlines –
- Address Points

Ongoing Updates Posted quarterly

- Parcels
- Local Knowledge



Topology defines relationships for coincident geometries

• Topology rules determine how features share geometry

Adjacent polygons do not have gaps or overlaps

Polygons that share an area are coincident or contained within or covered by

Scale Matters Scale Values Copology





19

Office of Information Technology Services









- **Old Village Boundary**
- New Village Boundary
- Village Address Pt
- Town Address Pt
- Street Centerline



The Work Being Done

Tri-County Emergency Service Boundaries









Decennial Census

"In addition to apportioning state representation,census data will be used to make decisions effecting legislation and spending on housing, highways, hospitals, schools, assistance programs, and scores of projects and programs that are vital to the health and welfare of the U.S. population and economy."



Census and Legal Boundaries





Census Village Bdry



CENSUS 2020 and the Boundary Annexation Survey (BAS)

Accurate boundaries allow us to count your community's residents accurately.

Your participation in the BAS helps the Census Bureau continue to produce accurate data, which directly affects the quality of life in your community. An accurate count helps the federal government allocate more than \$400 billion in federal funds annually for programs and services—including education, housing, health care services for the elderly, job training, transportation, and more.

https://www.census.gov/programs-surveys/bas.html



Accessing NYS Datasets

http://gis.ny.gov/

- geodatabase
- shapefiles
- metadata

← → C ③ gis.ny.gov Apps ■ Albany, NY Weather ■ Shar VORK STATE	ePoint SignIn 📄 NYS GIS Clearinghou 🗅 SPOT 🛋 NY.gov ID Login 📼 511NY New York Tr 📧 CENSUS FTP Downlo: 🌑 Desktop Help 10.0 - : 🗅 C Services News Government Local
GIS.NY.GOV	Data Coordination Orthoimagery GIS Program Office ShareGIS
	Data Catalog
	Orthoimagery
	Streets
	Sc Parcels
	Addresses
	Elevation Civil Boundaries
	Raster Maps
	Web Services
	The second secon
	NEW YORK STATEOR Technology Serv
	STATE OF OPPORTUNITY. Technology Serv

Accessing NYS Datasets

GIS Data Set Details

http://gis.ny.gov/

- geodatabase
- shapefiles
- metadata

_	Data Set Name	Description	Theme	Metadata
1		Datasets of boundaries for incorporated places (state, counties, cities, towns, and villages) and Indian territories in New York State. Data includes shoreline versions of the state boundary and county boundaries.	Boundaries	<u>City/Town</u> <u>County</u> <u>County Shoreline</u> <u>Indian Territories</u> <u>State</u> <u>State Shoreline</u> <u>Villages</u>

Supporting Documentation

NYS Civil Boundaries data are also available as web services https://gisservices.its.ny.gov/arcgis/rest/services/

🚽 Files available to the Public

Files	Download	Me tadata
NYS Civil Boundaries	및 <u>GEODATABASE</u> 및 <u>SHAPE</u>	<u>Metadata</u> -



Accessing NYS Datasets

https://gisservices.its.ny.gov/arcgis/rest/services//

ArcGIS REST Services Directory

Home > services

JSON | SOAP

Folder: /

Current Version: 10.31

View Footprints In: ArcGIS Online map viewer

Folders:

- Locators
- <u>State Spending</u>
- <u>Utilities</u>

Services:

- <u>NYS Assembly Districts</u> (FeatureServer)
 NYS Assembly Districts (MapServer)
- <u>NYS Civil Boundaries</u> (FeatureServer)
- <u>NYS Civil Boundaries</u> (MapServer)
- <u>INTS_Congressional_Districts</u> (MapServer)
- <u>NYS Senate Districts</u> (FeatureServer)
- <u>NYS Senate Districts</u> (MapServer)
- <u>NYS Tax Parcels Shareable Public</u> (MapServer)
- <u>NYS Tax Parcels State Owned</u> (MapServer)
- <u>SAM Address Points Symbolized</u> (MapServer)
- SAM Address Points (MapServer)

Increased Level of Local Involvement

- Civil Boundaries Enhancements
- Streets and Address Points GeoLynx
- NG9-1-1 Emergency Service Boundaries





Questions or Comments?

GISboundaries@its.ny.gov

Robert Gehrer

Program Manager State Police GIS Support & Boundaries NYS GIS Program Office (518) 242-5047 Robert.Gehrer@its.ny.gov

Karen Henry

Technical Lead Civil Boundaries Program NYS GIS Program Office (518) 242-5040 Karen.Henry@its.ny.gov

