

# Geospatial Webinar Series

Some Thursdays at 1pm

Today!

CT's Digital Parcels & CAMA Data

Ashley Benitez

Leah Hodges

November 21, CT GIS Day at Mohegan Sun: Mosaic Datasets and Imagery (Emily Wilson)

Next

December 12, 1 PM: Understanding Housing in Our Communities using the CT Housing Data Hub (Sarah Hurley)

Info, recordings, registration

<https://clear.uconn.edu/mapping/webinars/>

Webinar ideas, feedback

Email: [clear@uconn.edu](mailto:clear@uconn.edu)

# CT's Digital Parcel & CAMA Data: What It is and What You Can Do with It

CT GIS Office

Leah Hodges (GIS Analyst)

Ashley G. Benitez (GIS Coordinator)

October 24, 2024



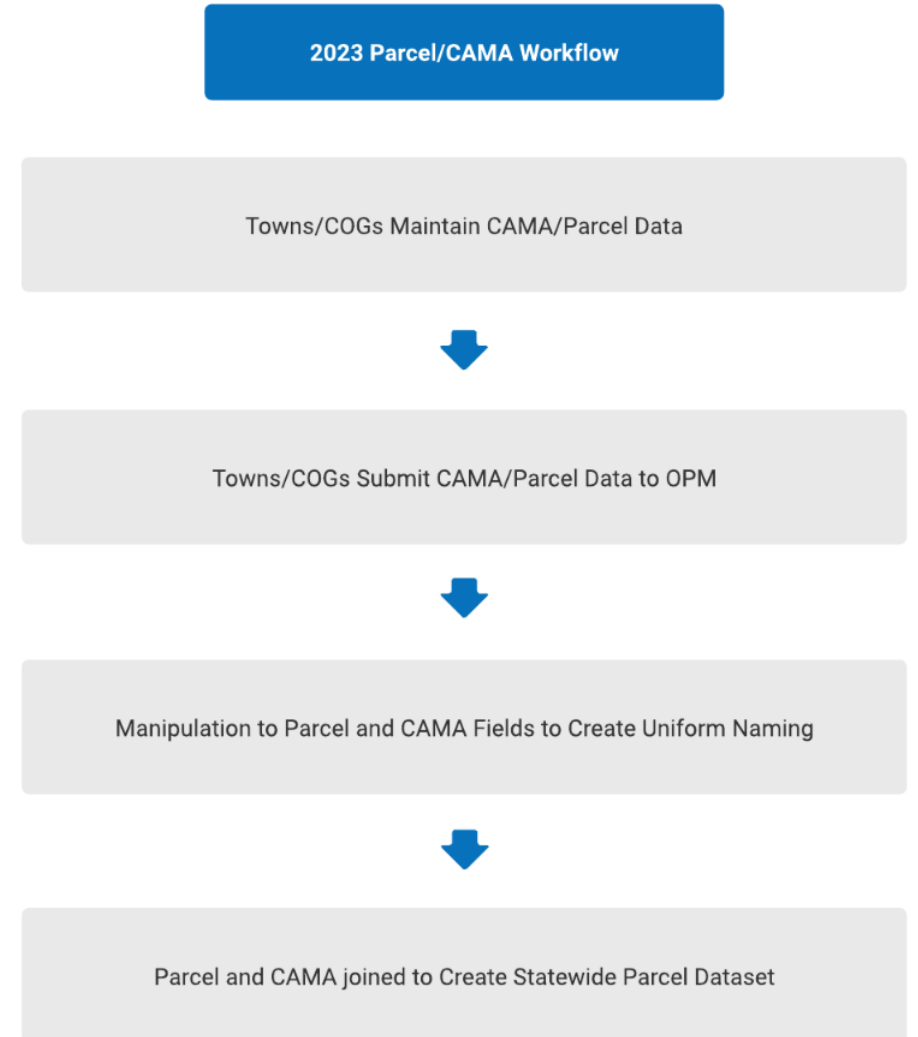
**CONNECTICUT**  
Policy and Management

# Background

The GIS Office collects municipal digital parcel files and computer-aided mass appraisal (CAMA) files from councils of government (COGs), as required annually by **CGS Sec. 7-100I**.

Previously, parcel data has been available for download via zip files. However, it was decided that providing the ability to analyze data for any town in Connecticut while incorporating municipal CAMA data would be a more effective method of distribution.

In 2023 the CT GIS Office aggregated the parcel and CAMA data into one singular dataset.



# The 2023 Parcel Data Set



**CAMA Data:** 165 towns submitted

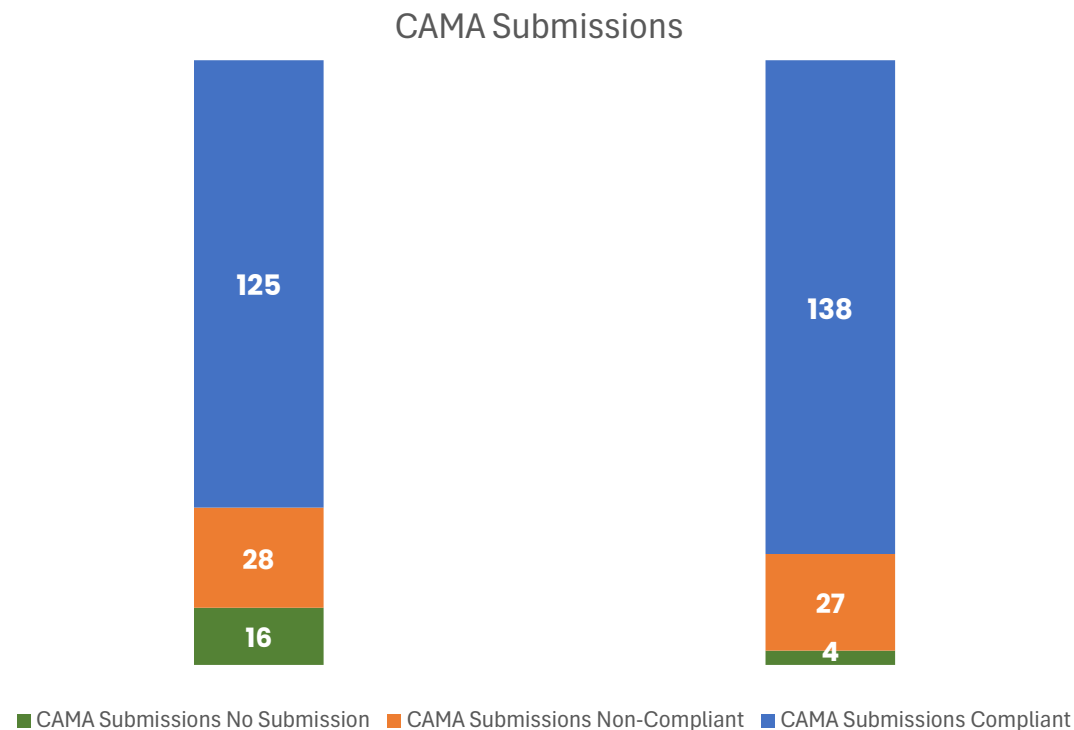
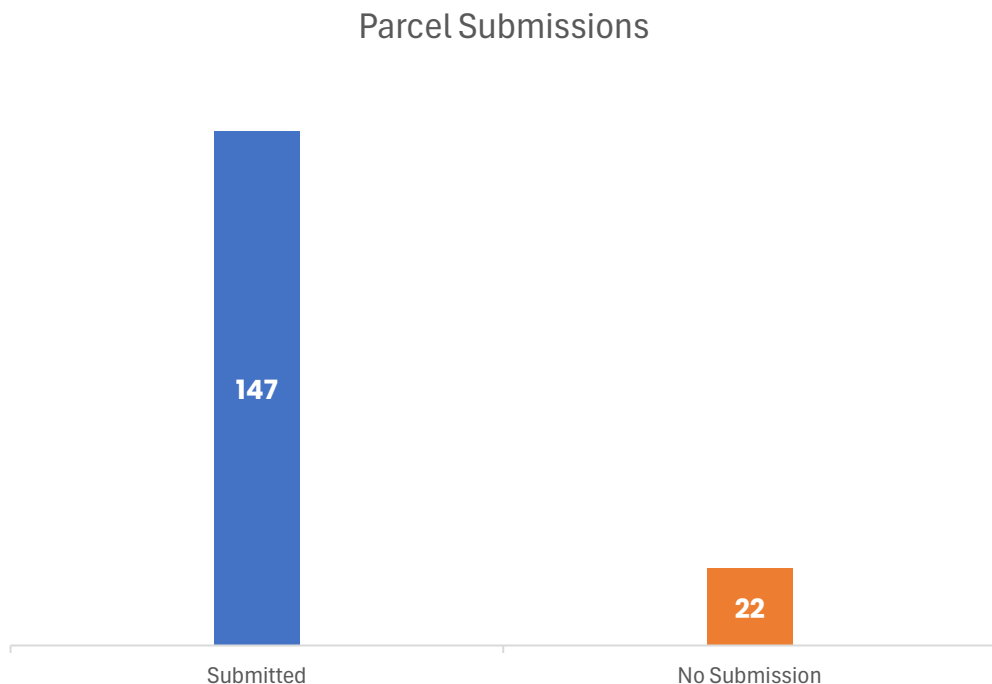
**Parcel Data:** 147 towns submitted

Parcel data had no schema.

# 2023 Submission and Collection

All municipalities were notified that they must submit their digital parcel files and accompanying files to their respective COGs by May 1, 2023.

The CAMA has a standard that was implemented prior to the 2022 collection and has seen a rise in compliance.



# New Features in 2024

## Created Parcel Schema

- Crosswalk and file geodatabase available on the new Parcel and CAMA Page
- Schema description also available

## Updated CAMA Schema

- CAMA now has 137 fields

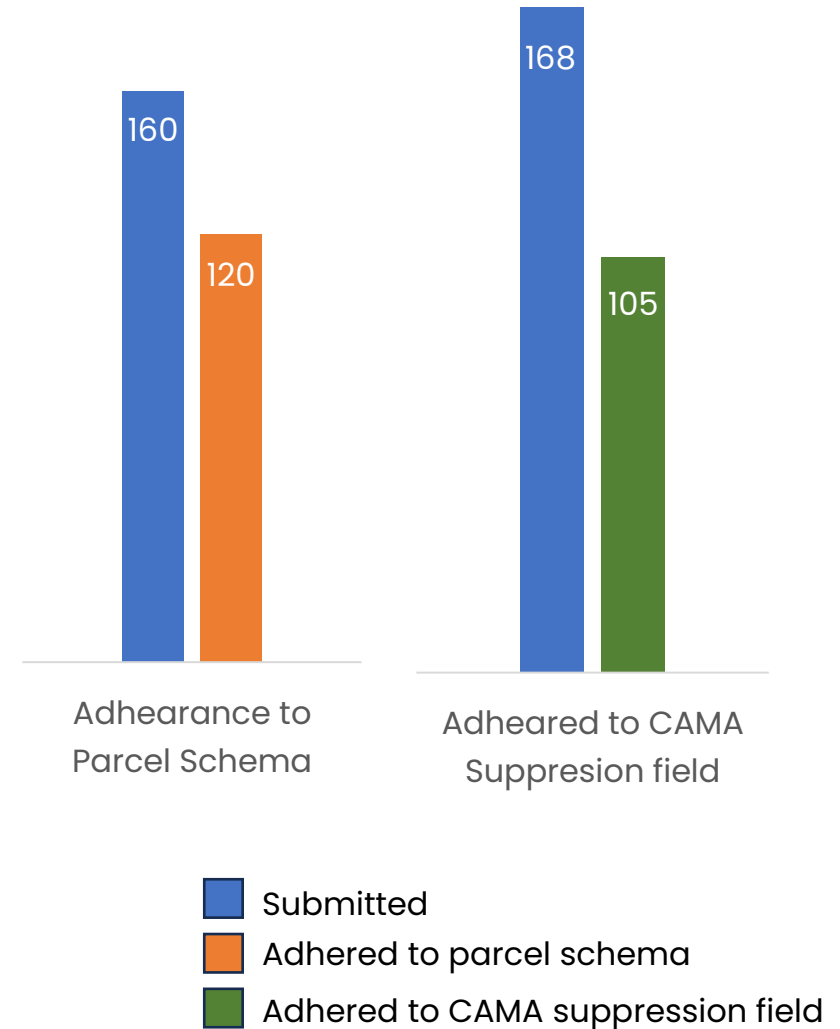
Alias	Description
Instrument	A code used to track the transaction. This system is the alternative to the archaic book/page process.
Validity Code	A code to describe the type of sale.
Occupancy	Number of Occupants/Units
Condo Main ID	The ID that all the condo units refer to.
CAMA Site Link	The web link to access the web hosted property card.
Building Photo	Link to URL with Property Photo
Number of Units	The total number of apartments or condos in a building.
Sketch	The web link to the building floor plan or layout image.
Land Use Note	A note regarding land use information.
Suppression	Identifies that an entry should be suppressed.

# 2024 Parcel and CAMA Collection

The GIS Office received parcel and CAMA data from all nine COGs this year.

## Metadata

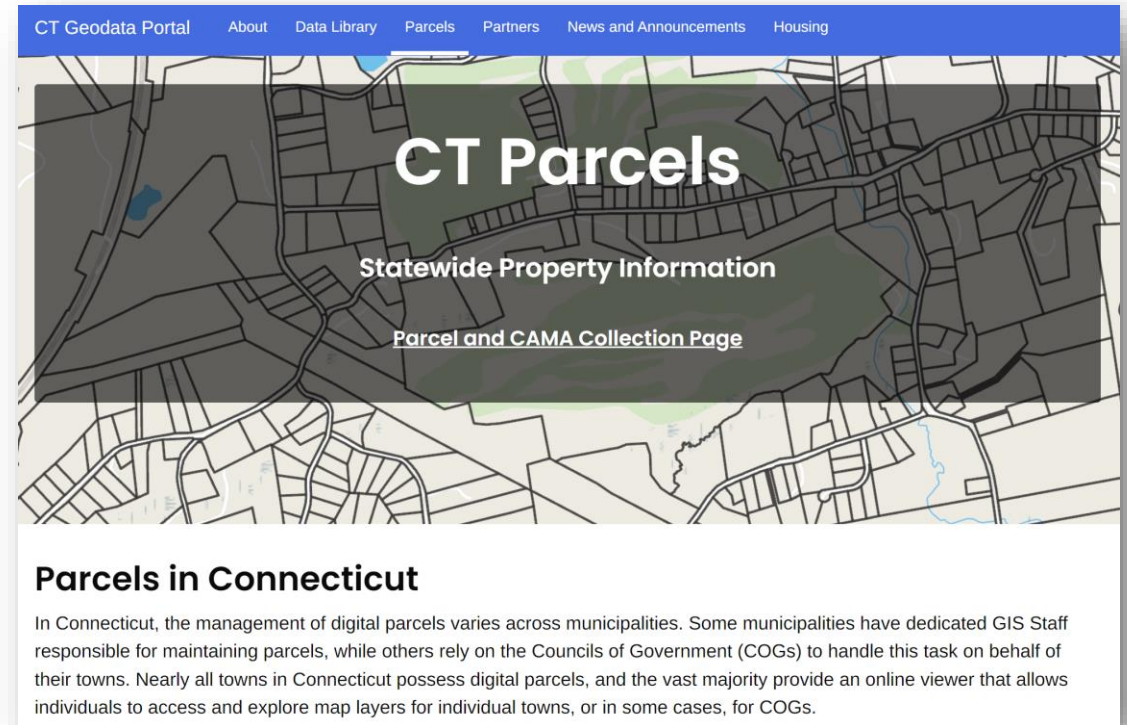
- **160 towns submitted Parcels**
  - 120 adhered to the parcel standard
- **168 towns submitted CAMA**
- **127 Towns Suppress Data**
  - Out of 127 /105 towns had the proper Suppression field
  - 141 complied with the submission addition
  - 42/169 towns do not suppress information
  - 22 out of compliance for suppression



# Landing Page

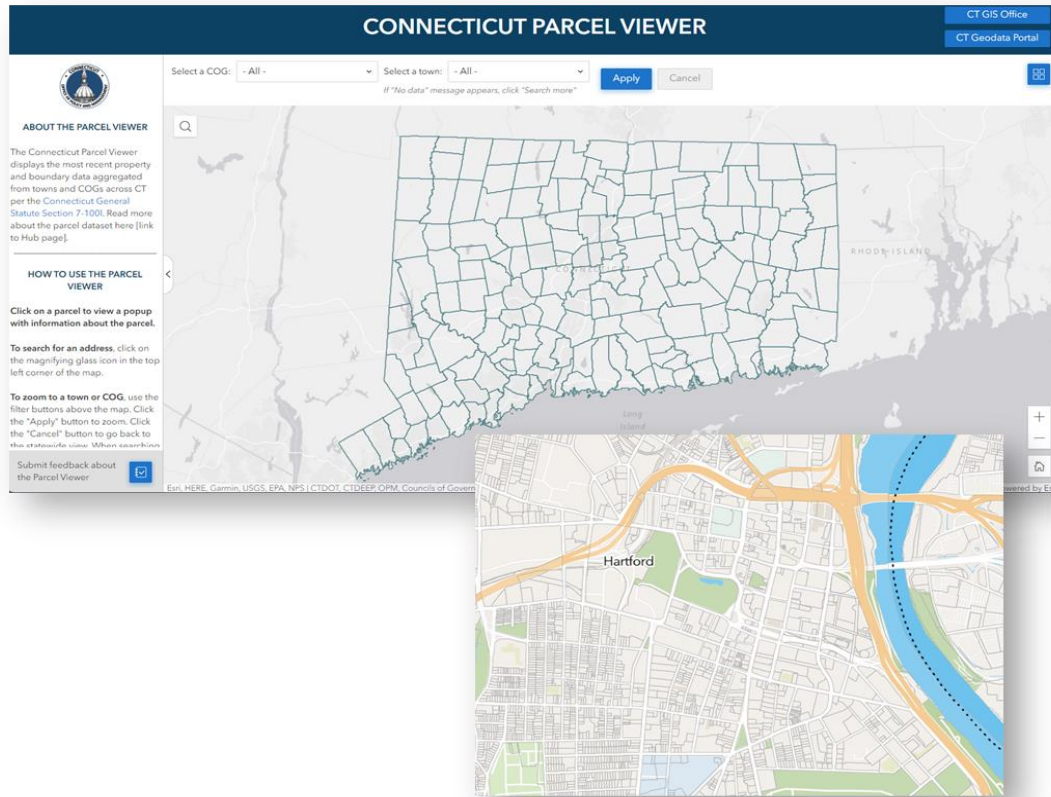
Parcel landing page on the Geodata Portal

- Parcel viewer
- Downloading Parcels
- Links to other resources





# Parcel Viewer



- Connecticut State Parcel Layer (2023) data
- Functionality
  - Search for an address
  - Zoom to a COG and/or town
  - Zoom in/out of the map
  - Select from different basemaps
- When you click on a parcel you can view the details.
- Links to download the parcel data.

# Internet hits on the service

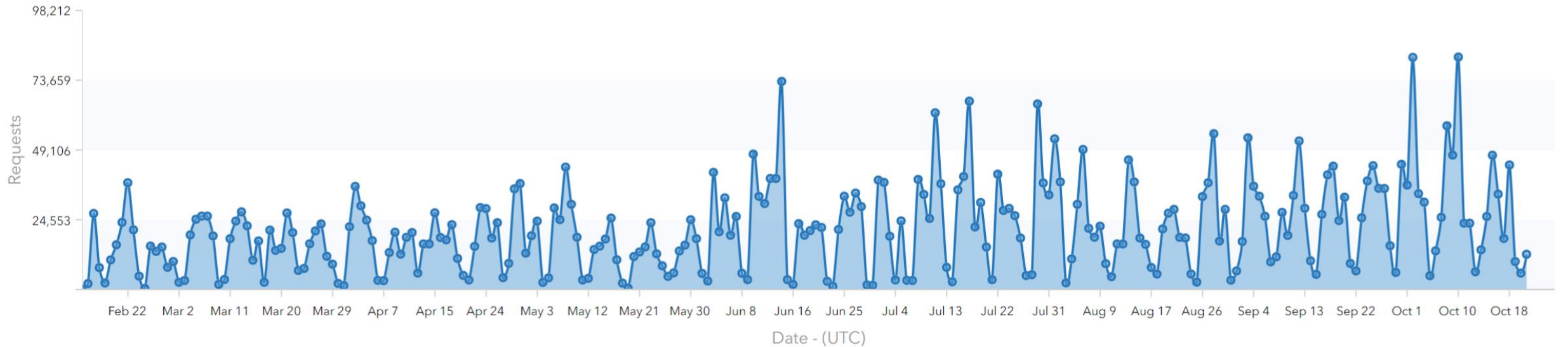
Requests this Period

5,395,141

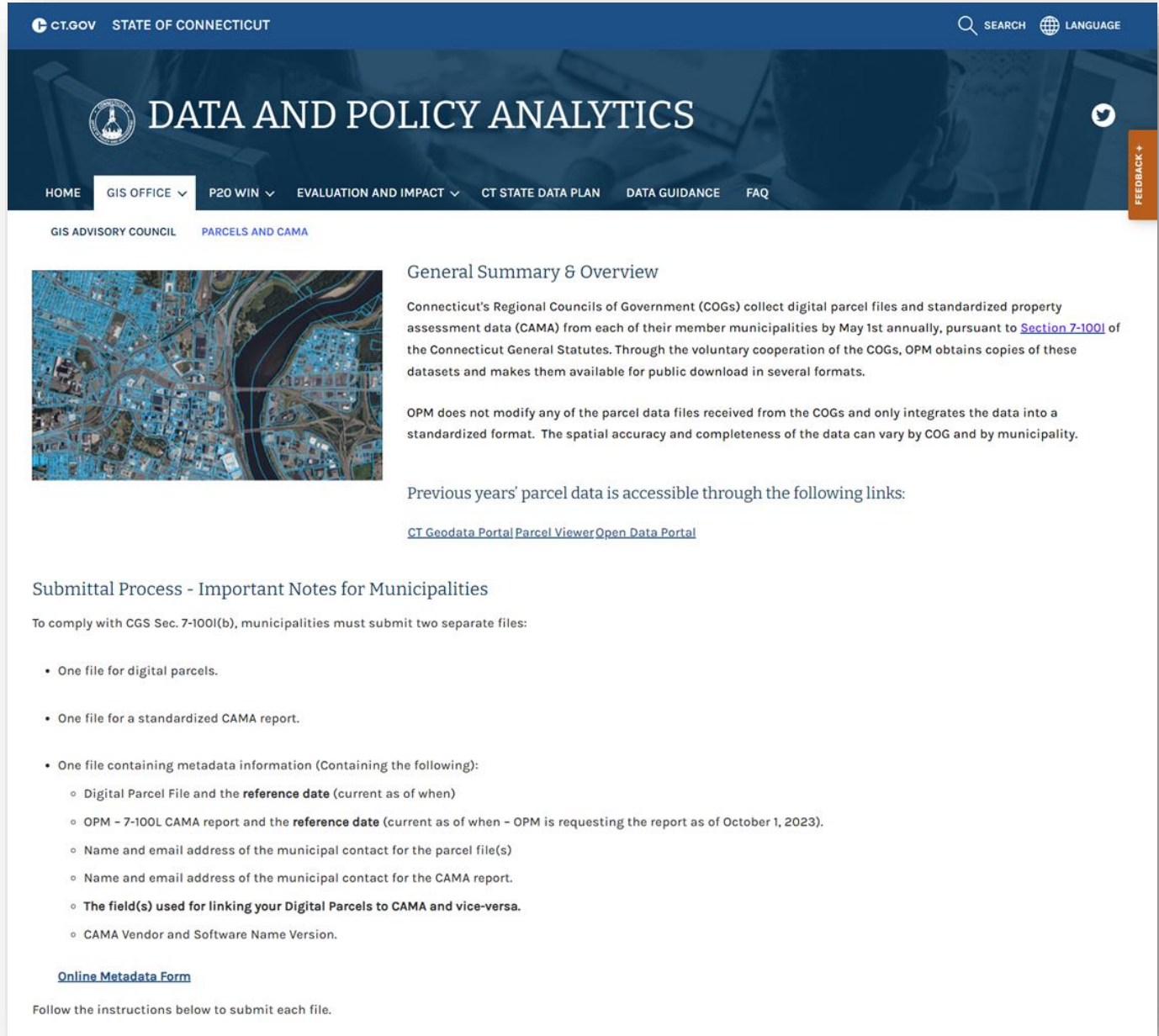
Avg Requests Per Day

21,667.23

## Usage Time Series



# Parcel and CAMA Website



CT.GOV STATE OF CONNECTICUT

SEARCH LANGUAGE

DATA AND POLICY ANALYTICS

HOME GIS OFFICE P20 WIN EVALUATION AND IMPACT CT STATE DATA PLAN DATA GUIDANCE FAQ

GIS ADVISORY COUNCIL PARCELS AND CAMA

### General Summary & Overview

Connecticut's Regional Councils of Government (COGs) collect digital parcel files and standardized property assessment data (CAMA) from each of their member municipalities by May 1st annually, pursuant to [Section 7-100I](#) of the Connecticut General Statutes. Through the voluntary cooperation of the COGs, OPM obtains copies of these datasets and makes them available for public download in several formats.

OPM does not modify any of the parcel data files received from the COGs and only integrates the data into a standardized format. The spatial accuracy and completeness of the data can vary by COG and by municipality.

Previous years' parcel data is accessible through the following links:

[CT Geodata Portal](#) [Parcel Viewer](#) [Open Data Portal](#)

### Submittal Process - Important Notes for Municipalities

To comply with CGS Sec. 7-100I(b), municipalities must submit two separate files:

- One file for digital parcels.
- One file for a standardized CAMA report.
- One file containing metadata information (Containing the following):
  - Digital Parcel File and the **reference date** (current as of when)
  - OPM - 7-100L CAMA report and the **reference date** (current as of when - OPM is requesting the report as of October 1, 2023).
  - Name and email address of the municipal contact for the parcel file(s)
  - Name and email address of the municipal contact for the CAMA report.
  - **The field(s) used for linking your Digital Parcels to CAMA and vice-versa.**
  - CAMA Vendor and Software Name Version.

[Online Metadata Form](#)

Follow the instructions below to submit each file.

# Metadata Dashboard

## 2024 Parcel and CAMA Collection Dashboard

Metadata Survey

*If you have not submitted, Please submit here*

Collection 2024

Each year CT collects CAMA and Parcel data from member municipalities.

**Town**

-Please select-

**COG :**

**Submitter Name\***

**Submitter Email\***

**Assessor Point of Contact Name\***

**Assessor Point of Contact Email\***

Metadata Survey    Status by Town

Filter by COG  
Full State

**How Many Towns Have Submitted**

169 / 169

**How Many Submitted a Parcel Link**

152 / 169

*This does not include 17 invalid submissions*

**How Many Submitted a CAMA Link**

160 / 169

*This does not include 9 invalid submissions*

Last update: 1 minute ago



**What can you do  
with the authoritative  
Parcel Dataset &  
Assessment  
Information?**

# Many things!



## Unique insight into neighborhood-level information

- SQL queries
  - Land trusts
  - Municipal lands
- Clusters and spatial statistics

# Parcel Dataset

38 attributes including:

**Location**

**Unit Type**

**Assessed Total**

**Assessed Land**

**Assessed Building**

**Pre-Year Assessed Total**

**Appraised Land**

**Appraised Building**

**Condition**

**Valuation Year**

**Number of stories**

**State Use (Code)**

**Living Area**

**Effective Area**

**Total rooms**

**Number of bedrooms**

**Number of Baths**

**Sale Price**

**Sale Date**

**Occupancy**

# Attributes (137)

- Categories
  - ID
  - Address
  - Appraisal
  - Assessment
  - Building
  - Land
  - Owner

A	B	C
ID	Type	Field
43	Appraisal	Appraised_Total
44	Appraisal	Appraised_Land
45	Appraisal	Appraised_Building
46	Appraisal	Appraised_Extra_feature
47	Appraisal	Appraised_Outbuilding
48	Appraisal	Valuation_Year
49	Land	Land_Acres
50	Land	Parcel_Depth
51	Land	Parcel_Frontage
52	Land	Water_frontage_in_Feet
53	Land	Zone
54	Land	Zone_Description
55	Land	State_Use
56	Land	State_Use_Description
57	Building	Style_Desc
58	Building	Model
59	Building	Grade
60	Building	Grade_Desc
61	Building	Depreciation
62	Building	Condition
63	Building	Condition_Description
64	Building	Neighborhood
65	Building	AYB
66	Building	EYB
67	Building	Replacement_Cost_New
68	Building	Replacement_Cost_New_Less_Depreciation
69	Building	Gross_Area_of_Primary_Building
70	Building	Living_Area
71	Building	Effective_Area
72	Building	Stories
73	Building	Frame_Type

**Attribute schema can be found at:**  
<https://portal.ct.gov/datapolicy/gis-office/parcels-and-cama>



I want to...



Create a Map

Start a map with this data



Create a Story

Open in ArcGIS StoryMaps



View API Resources

Try out the API Explorer



View Data Source

Select to open in a new tab



View All Metadata

Select to open in a new tab



Open in ArcGIS Online

Select to open in a new tab



View Map

Download

More ▾



**View API Resources**  
Try out the API Explorer

**GeoService** [View](#)  
<https://services3.arcgis.com/3FL1kr7L4...> [Copy](#)

**GeoJSON** [View](#)  
<https://services3.arcgis.com/3FL1kr7L4...> [Copy](#)

[Open in API Explorer](#)  
Customize the query for your needs

**API Explorer**  
Connecticut State Parcel Layer 2023

Create a query URL from the available options to get a JSON response. See our full REST API documentation for details.

# CT Parcel Data Set

- Parcel geometry + Assessment data
- 1.25 million parcels

CT\_Parcels\_Export\_landtrusts - GRANBY

OBJECTID_1	4636
Town_Name	GRANBY
Collection_YR	2023
Link	32640-13400080
Editor	SUE
EditDate	2/12/2019
LOCATION	80 SILVER ST
PROPERTY_CITY	GRANBY
OWNER	GRANBY LAND TRUST INC
CO_OWNER	<Null>
MAILING_ADDRESS	PO BOX 23
MAILING_CITY	GRANBY
ASSESSED_TOTAL	296520
ASSESSED_LAND	296520



# SQL

- Text search in a GIS
- Account for variability in naming conventions and spacing

## Introduction to query expressions

ArcGIS Pro 3.3 | [Other versions](#) ▾ | [Help archive](#)

Queries are used to search for and select a subset of features and table records. All query expressions in ArcGIS Pro use Structured Query Language (SQL) to formulate these search specifications.

Found at:

<https://pro.arcgis.com/en/pro-app/latest/help/mapping/navigation/write-a-query-in-the-query-builder.htm#:~:text=Queries%20are%20used%20to%20search,to%20formulate%20these%20search%20specifications>

# Example 1: GreenPlan

This definition is designed to encompass all land currently used or acting as open space in Connecticut to help gauge progress towards the goal of holding 21% of the state's land area as open space as referenced in **CGS Section 23-8 (b)**

In order for land to be considered open space it must:

1. Meet one of the following:

- Be protected from development by a conservation restriction<sub>1</sub> held by a qualified conservation organization<sub>2</sub>
- Be owned in fee by a qualified conservation organization or water company

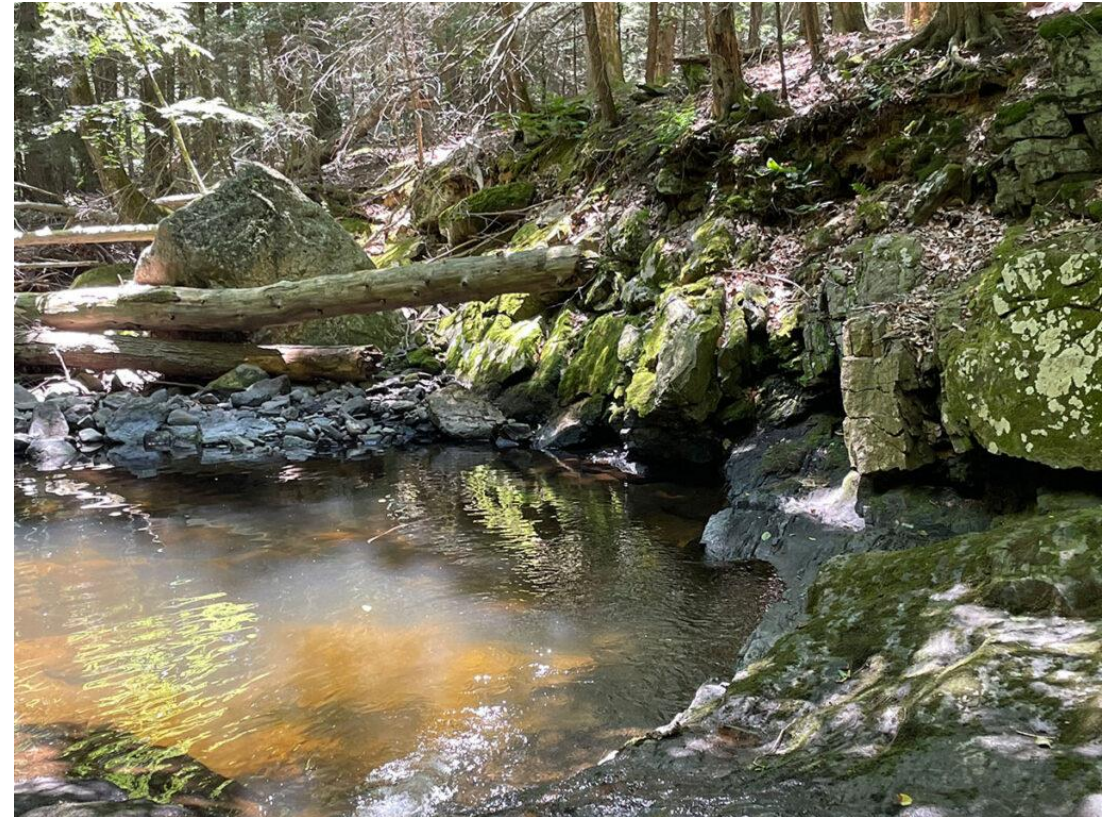
**AND**

2. Be restricted<sub>3</sub>, protected<sub>4</sub> or used for one of the following purposes:

- To maintain or enhance the conservation of natural or scenic resources
- To protect natural streams or a water supply
- To promote healthy soils<sub>5</sub>
- To promote the conservation of wetlands, beaches or tidal marshes
- To enhance public outdoor recreation opportunities<sub>6</sub>
- To preserve historic property<sub>7</sub> or agricultural lands

# GreenPlan and Finding Land Trusts

- No single reference data set
- Older general data set with mixed categories
- Only reference PDF with no geometry



[Humphrey Preserve Trails – Canton Land Conservation Trust \(cantonlandtrust.org\)](http://cantonlandtrust.org)

# Connecticut Land Trusts 2022

## LOCAL LAND TRUSTS

- 1 Avon Land Trust
- 2 Barkhamsted Land Trust, Inc.
- 3 Bethel Land Trust
- 4 Bethlehem Land Trust
- 5 Bolton Land Trust
- 6 Branford Land Trust
- 7 Bridgewater Land Trust
- 8 Burlington Land Trust
- 9 Candlewood Valley Regional Land Trust
- 10 Canton Land Conservation Trust, Inc.
- 11 Cheshire Land Trust, Inc.
- 12 Chester Land Trust
- 13 Clinton Land Conservation Trust, Inc.
- 14 Colchester Land Trust
- 15 Colebrook Land Conservancy, Inc.
- 16 Constance B. Ripley Land Trust
- 17 Cornwall Conservation Trust
- 18 Darien Land Trust
- 19 Deep River Land Trust, Inc.
- 20 East Granby Land Trust, Inc.
- 21 East Haddam Land Trust, Inc.
- 22 East Haven Land Trust, Inc.
- 23 East Lyme & Niantic Land Conservation Trust, Inc.
- 24 Environmental Learning of CT, Inc.
- 25 Essex Land Trust, Inc.
- 26 Farmington Land Trust
- 27 Friends of Oswegatchie Hills Nature Preserve
- 28 Gather New Haven
- 29 Goodwin University
- 30 Goshen Land Trust
- 31 Granby Land Trust
- 32 Greenwich Land Trust, Inc.
- 33 Grotton Open Space Association, Inc.
- 34 Guilford Land Conservation Trust
- 35 Haddam Land Trust, Inc.
- 36 Hamden Land Conservation Trust, Inc.
- 37 Hartland Land Trust
- 38 Harwinton Land Trust
- 39 Highstead Foundation
- 40 Seymour Land Conservation Trust, Inc.
- 41 Kent Land Trust, Inc.
- 42 Killingworth Land Conservation Trust, Inc.
- 43 Land Conservancy of Ridgefield, Inc.
- 44 Land Heritage Coalition of Glastonbury, Inc.
- 45 Land Trust of West Haven
- 46 Long Pond Commons Land Trust
- 47 Lyme Land Conservation Trust
- 48 Lynde Point Land Trust
- 49 Madison Land Conservation Trust
- 50 Manchester Land Conservation Trust, Inc.
- 51 Meriden Land Trust
- 52 Middlebury Land Trust, Inc.
- 53 Milford Land Conservation Trust, Inc.
- 54 Morris Land Trust
- 55 Naugatuck Land Trust
- 56 New Canaan Land Trust
- 57 New Hartford Land Trust, Inc.
- 58 Newtown Forest Association, Inc.
- 59 North Branford Land Conservation Trust, Inc.
- 60 North Haven Land Trust, Inc.
- 61 North Stonington Citizens Land Alliance, Inc.
- 62 Norwalk Land Trust, Inc.
- 63 Old Lyme Land Trust
- 64 Old Saybrook Land Trust
- 65 Orange Land Trust, Inc.
- 66 Oxford Land Trust, Inc.
- 67 Plymouth Land Trust, Inc.

- 68 Pond Mountain Trust, Inc.
- 69 Prospect Land Trust
- 70 Salem Land Trust, Inc.
- 71 Salisbury Association Land Trust
- 72 Shelton Land Conservation Trust, Inc.
- 73 Shetucket River Valley Land Trust
- 74 Simsbury Land Trust
- 75 South Windsor Land Conservation Trust, Inc.
- 76 Southbury Land Trust, Inc.
- 77 Southington Land Conservation Trust, Inc.
- 78 Stamford Land Conservation Trust, Inc.
- 79 Stonington Land Trust
- 80 Suffield Land Conservancy, Inc.
- 81 The Woodbridge Land Trust, Inc.
- 82 Wallingford Land Trust, Inc.
- 83 Warren Land Trust, Inc.
- 84 Waterbury Land Trust
- 85 Waterford Land Trust, Inc.
- 86 Watertown Land Trust, Inc.
- 87 West Hartford Land Trust
- 88 Westbrook Land Conservation Trust, Inc.
- 89 Wilton Land Conservation Trust
- 90 Winchester Land Trust, Inc.
- 91 Windsor Land Trust
- 92 Wolcott Land Conservation Trust, Inc.
- 93 Woodbridge Park Association
- 94 Woodsmen Land Trust

## MULTI-TOWN LAND TRUSTS

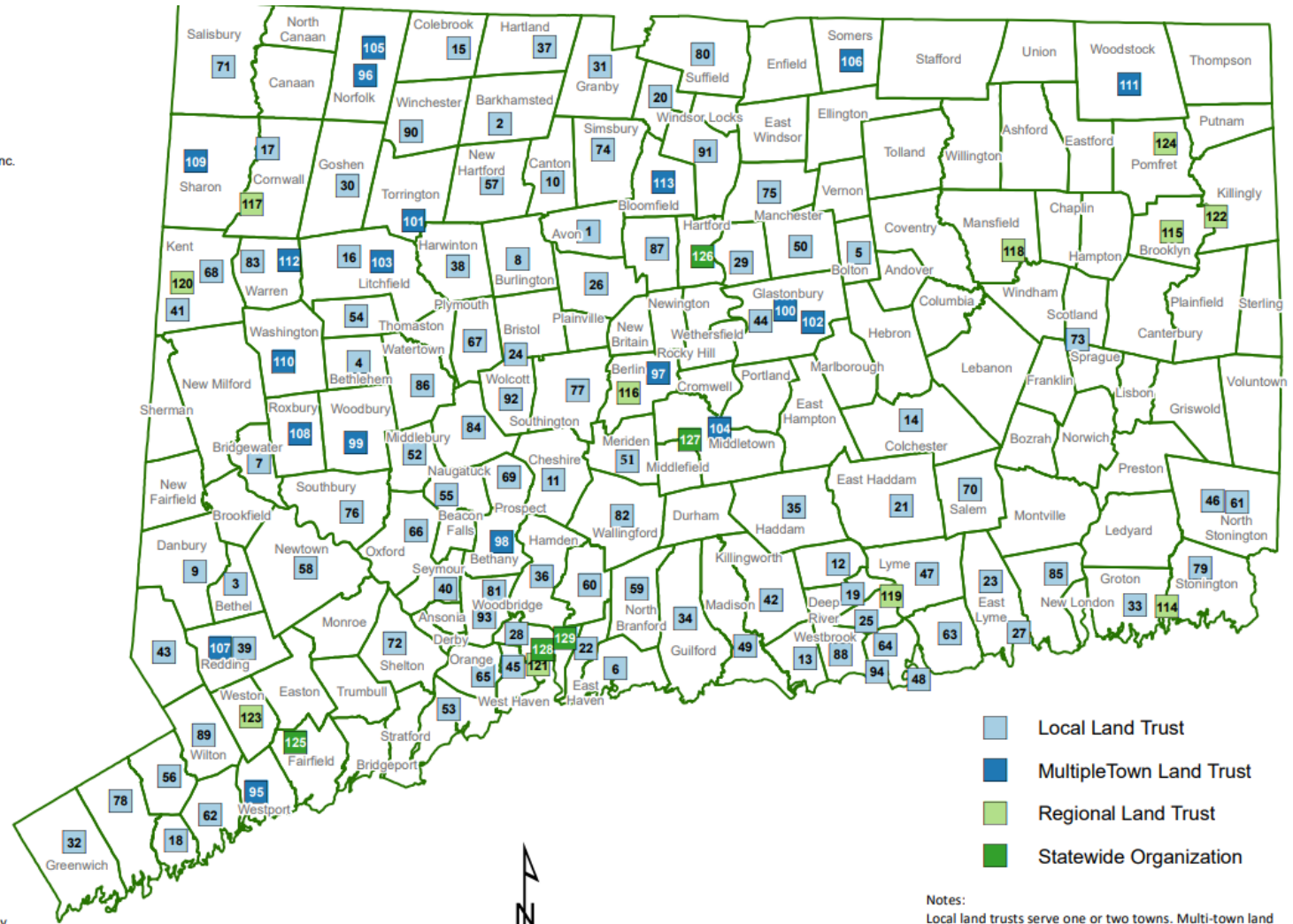
- 95 Aspetuck Land Trust
- 96 Aton Forest, Inc.
- 97 Berlin Land Trust, Inc.
- 98 Bethany Land Trust, Inc.
- 99 Flanders Nature Center & Land Trust
- 100 Great Meadows Conservation Trust
- 101 Heritage Land Preservation Trust
- 102 Kongscut Land Trust
- 103 Litchfield Land Trust
- 104 Middlesex Land Trust
- 105 Norfolk Land Trust, Inc.
- 106 Northern Connecticut Land Trust
- 107 Redding Land Trust
- 108 Roxbury Land Trust
- 109 Sharon Land Trust
- 110 Steep Rock Association
- 111 The New Roxbury Land Trust
- 112 Warren Land Trust, Inc.
- 113 Wintonbury Land Trust

## REGIONAL LAND TRUSTS

- 114 Avalonia Land Conservancy, Inc.
- 115 ECFLA / Wolf Den Land Trust
- 116 Eversource Land Trust
- 117 Housatonic Valley Association
- 118 Joshua's Tract Conservation and Historic Trust
- 119 Lower Connecticut River Land Trust
- 120 Northwest Connecticut Land Conservancy
- 121 Regional Water Authority
- 122 The Last Green Valley, Inc.
- 123 Wildlife in Crisis Land Trust
- 124 Wyndham Land Trust

## STATEWIDE ORGANIZATIONS

- 125 Connecticut Audubon Society
- 126 Connecticut Farmland Trust
- 127 Connecticut Forest & Park Association
- 128 The Nature Conservancy - CT
- 129 The Trust for Public Lands

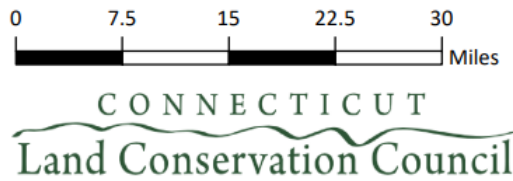


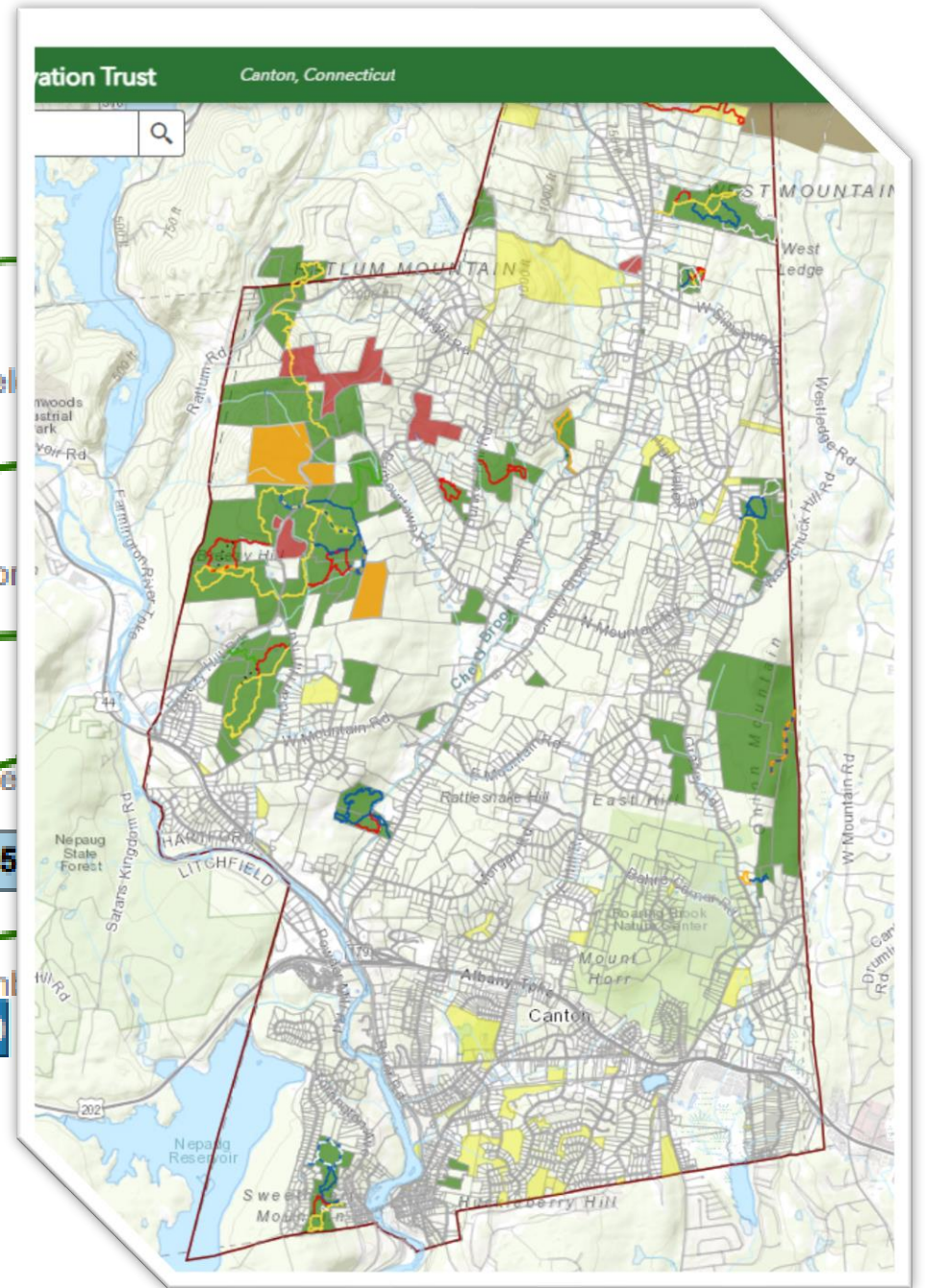
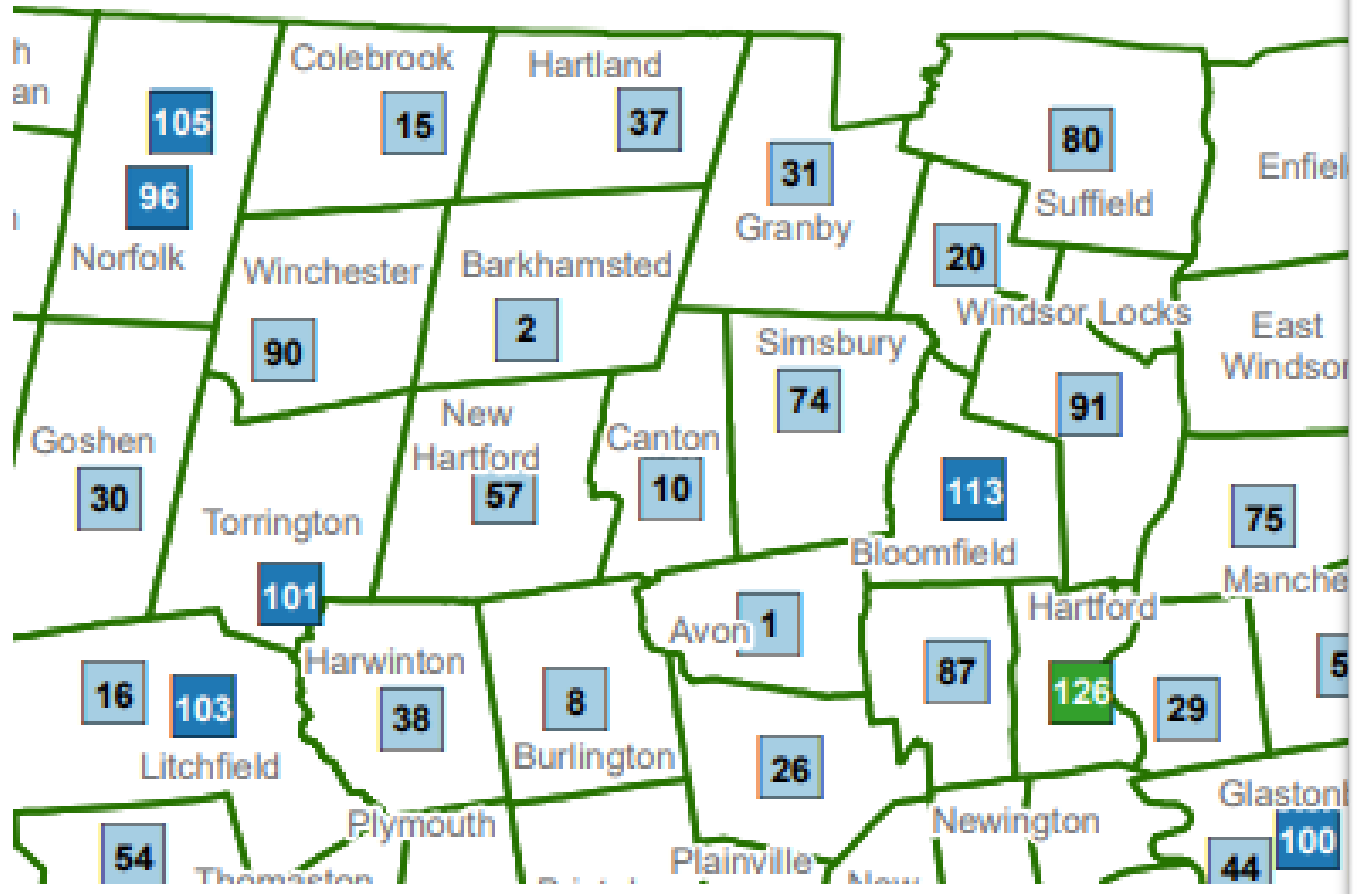
- Local Land Trust
- MultipleTown Land Trust
- Regional Land Trust
- Statewide Organization

Notes:  
Local land trusts serve one or two towns. Multi-town land trusts operate in three to six towns and regional land trusts operate seven or more towns.

This map is for planning purposes. Land trust locations are mapped only to a town level. Numbers on symbols correspond to a number on the list to the left.

Data Sources:  
Town boundary data is from the Connecticut Department of Energy and Environmental Protection.  
Land trust data from the Connecticut Land Conservancy





# Write a Query to Take Advantage of Owners' Names – LAND TRUSTS

Select By Attributes

Input Rows  
CT\_Parcels

Selection Type  
New selection

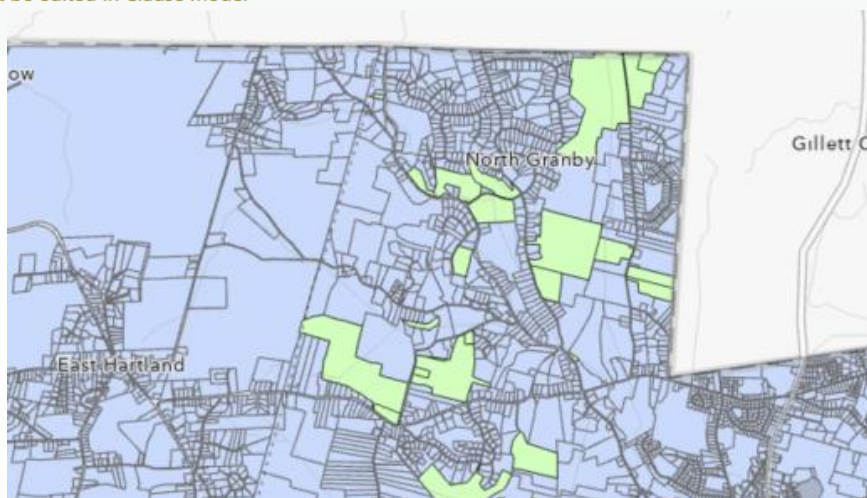
Expression

Load Save Remove

SQL

```
OWNER LIKE '%LAND TRUST%' OR OWNER LIKE '%LAND_TRUST%' OR OWNER LIKE '%CONSERVATION TRUST%' OR OWNER LIKE '%CONSERVATION TRUST%' OR OWNER LIKE '%LAND CONSERVATION%' OR OWNER LIKE '%ENVIRONMENTAL LEARNING%' OR OWNER LIKE '%OPEN SPACE%' OR OWNER LIKE '%LAND ALLIANCE%' OR OWNER LIKE '%CONNECTICUT AUDUBON SOCIETY%' OR OWNER LIKE '%CONNECTICUT FARMLAND TRUST%' OR OWNER LIKE '%NATURE CONSERVANCY%' OR OWNER LIKE '%LAST GREEN VALLEY%' OR OWNER LIKE '%LAND CONSERVANCY%'
```

The expression can't be edited in Clause mode.

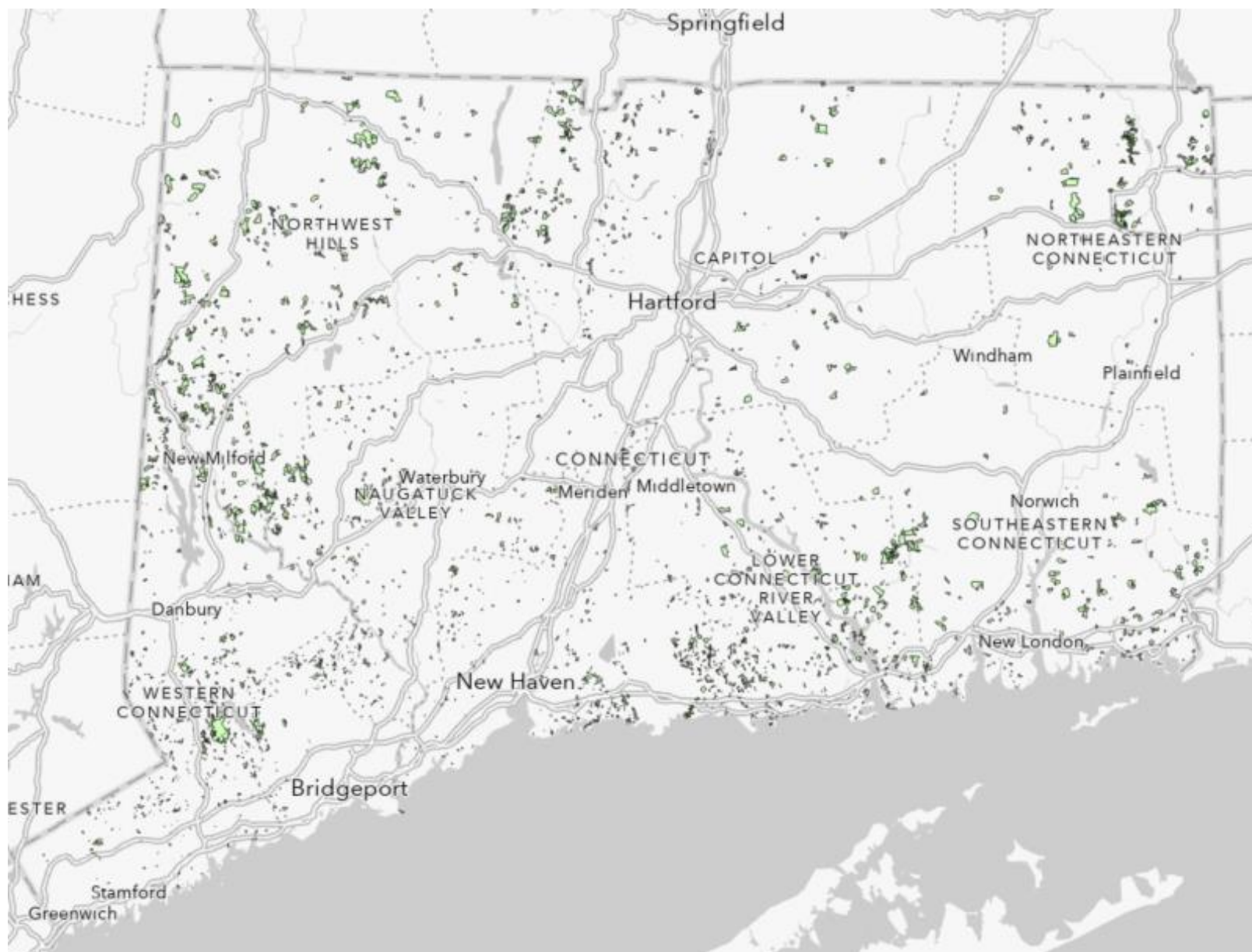


	PROPERTY_CITY *	OWNER *	CO_OWNE
OF GO...	WESTON	NATURE CONSERVANCY INC	<Null>
HILL RD	WOODBURY	FLANDERS NATURE CENTER & LA...	<Null>
IN RD	SHARON	NU LAND TRUST INC	<Null>
RD	POMFRET	WYNDHAM LAND TRUST INC	<Null>
HILL RD	SCOTLAND	NATURE CONSERVANCY OF CT INC	<Null>
	NORFOLK	NATURE CONSERVANCY INC	<Null>
D	ROXBURY	ROXBURY LAND TRUST INC	<Null>
OAD	COLEBROOK	COLEBROOK LAND CONSERVANC...	<Null>
RD	POMFRET	WYNDHAM LAND TRUST INC	<Null>
	NORFOLK	NORFOLK LAND TRUST INC	<Null>
	CORNWALL	CORNWALL CONSERVATION TRU...	<Null>
	MONTVILLE	NATURE CONSERVANCY INC	<Null>
	NORTH STONINGTON	AVALONIA LAND CONSERVANCY...	<Null>
OAD	EASTON	ASPETUCK LAND TRUST INC	C/O DAVID
	SOMERS	NORTHERN CONNECTICUT LAND...	<Null>
GE RD	SHARON	SHARON LAND TRUST INC	<Null>
AD	<Null>	NATURE CONSERVANCY OF CT	<Null>



# Land Trust Data Set

- 5107 parcels
- False positives and false negatives
- Vendor to identify missing parcels



# Example 2: Identifying commercial properties for land use and taxation

- How do you identify commercial properties?
- LLC is a limited liability company
- Protects personal assets of owner from bankruptcy and lawsuits
  - firewall

Select By Attributes

Input Rows  
CT\_Parcel

Selection Type  
New selection

Expression

Load Save Remove

SQL

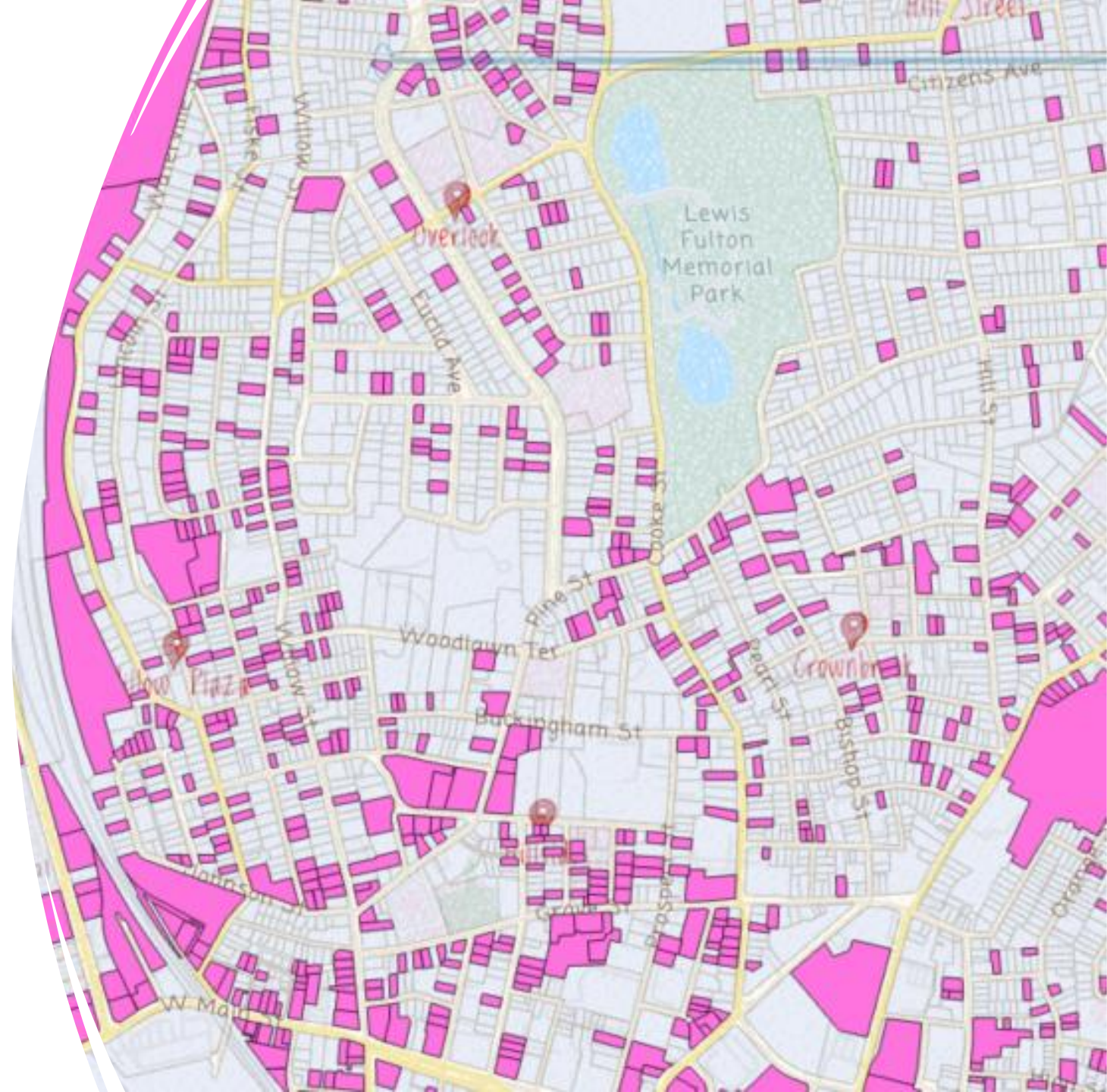
Where	OWNER	contains the text	LLC	X
Or	OWNER	contains the text	LLC	X
Or	OWNER	contains the text	ASSOCIATES	X
Or	OWNER	contains the text	HOLDINGS	X
Or	CO_OWNER	contains the text	LLC	X

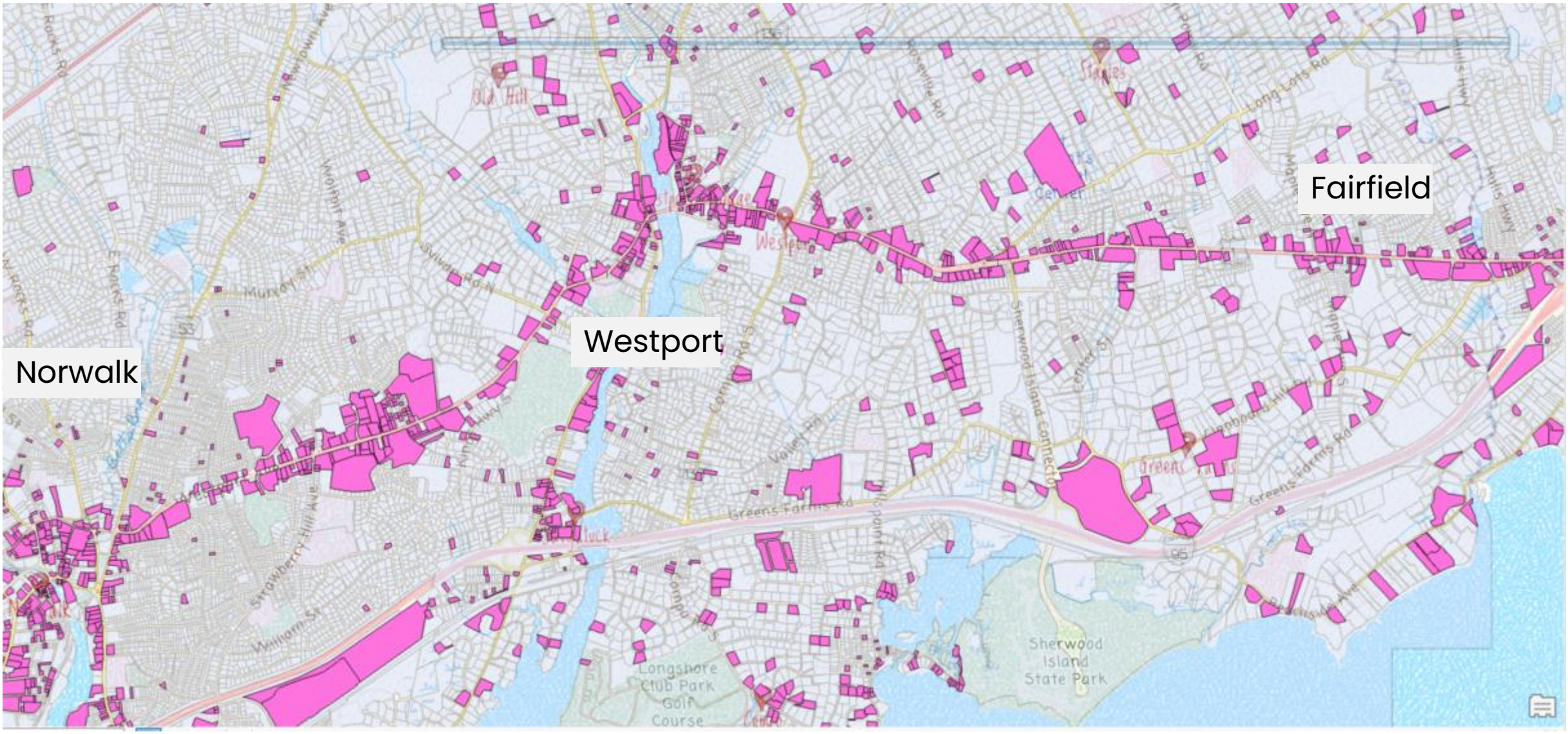
+ Add Clause

Invert Where Clause

# Waterbury

90,300 parcels





Norwalk

Westport

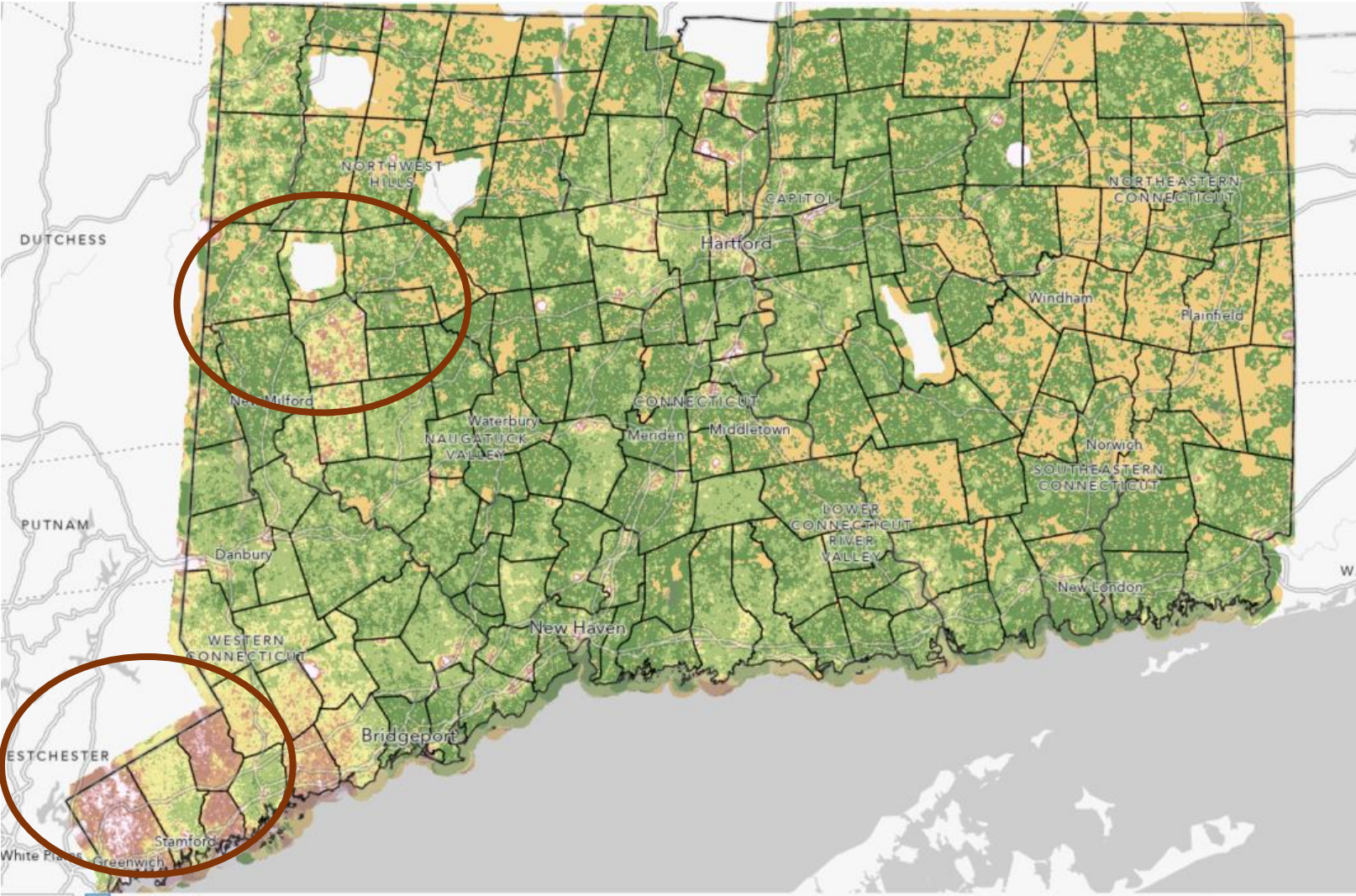
Fairfield

# Spatial Statistics

Definition: Metrics based on statistical tools used to characterize the distribution of events across space and find patterns. Methods can be descriptive, deterministic, statistical and local or general.












# IDW analysis of Sale Price (500' pixels)












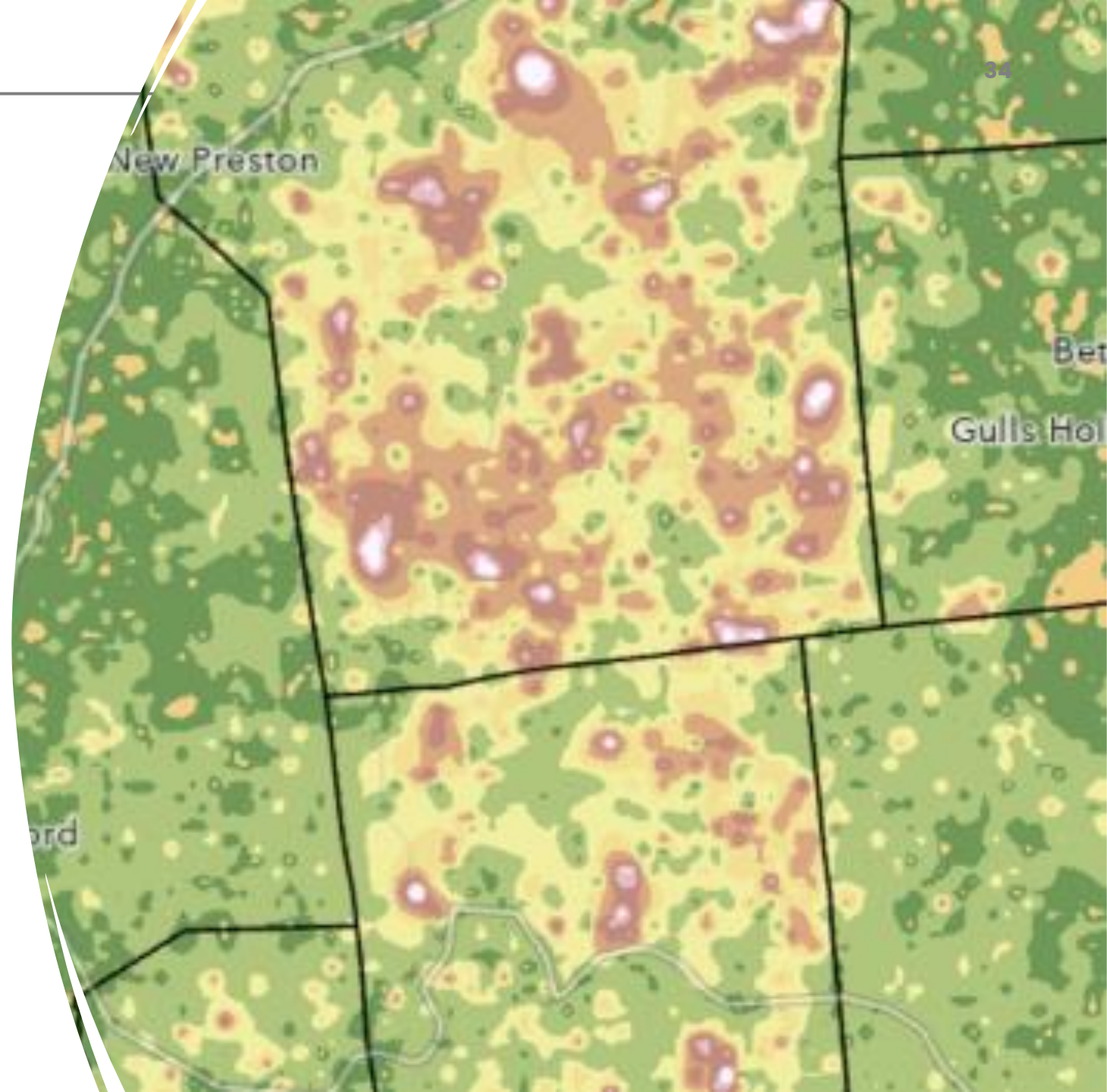
Classes Mask Histogram

More + 0.0

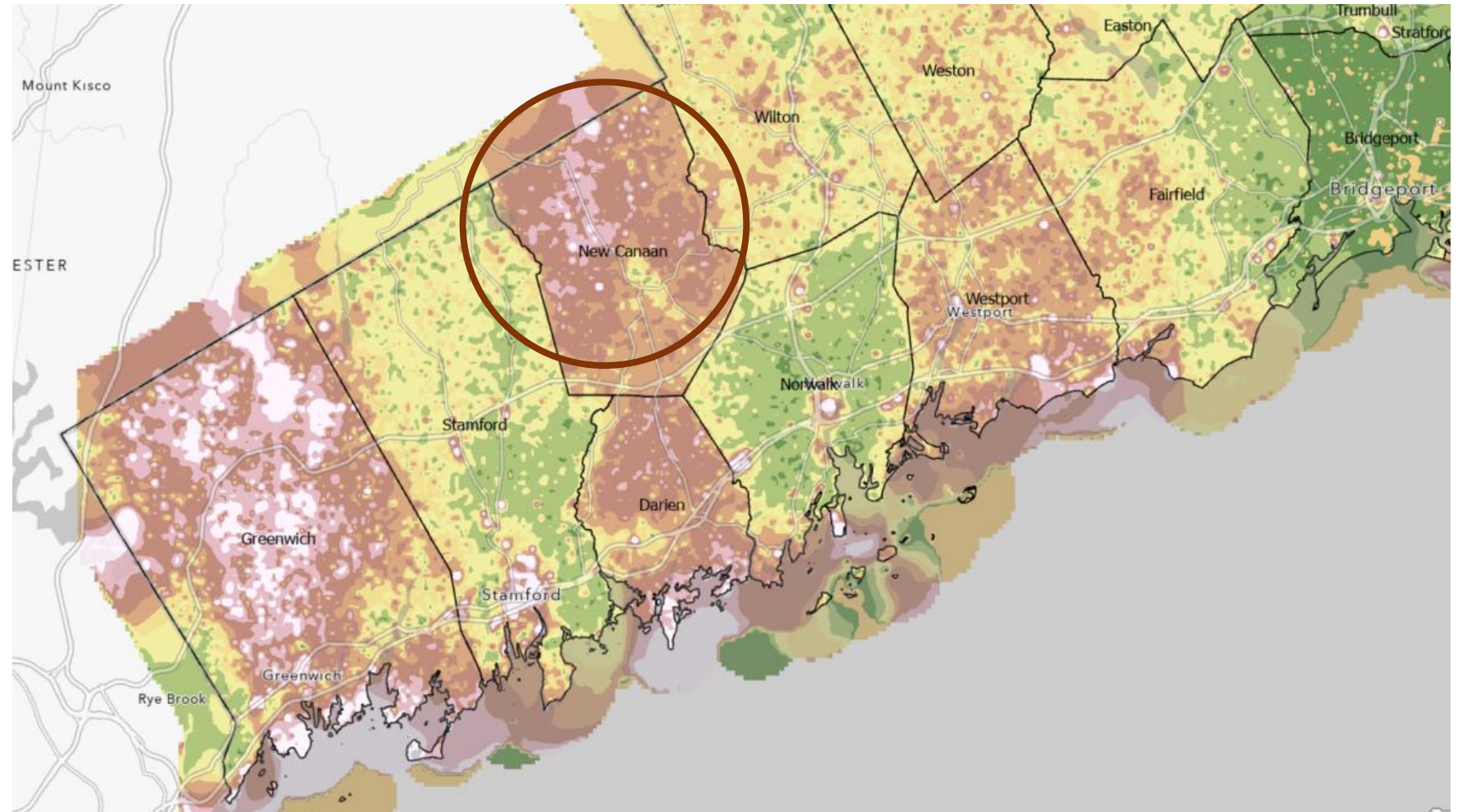
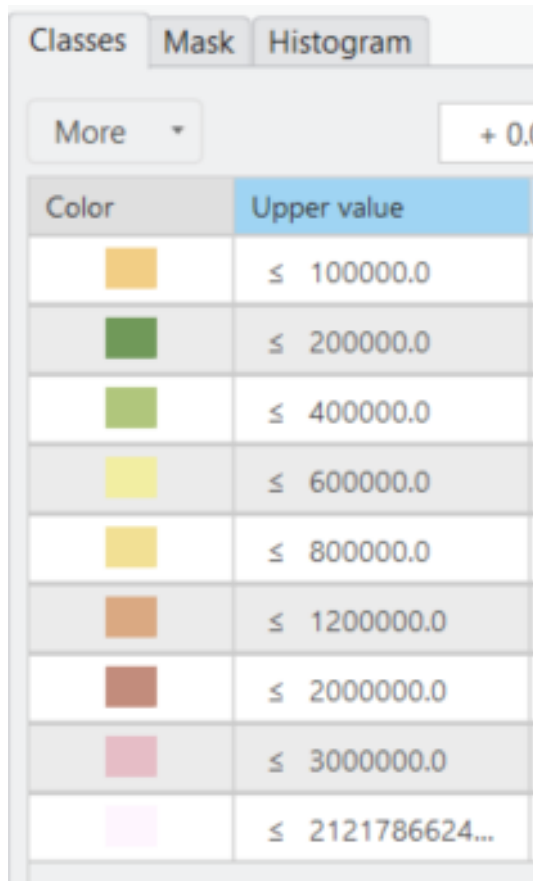
Color	Upper value
	≤ 100000.0
	≤ 200000.0
	≤ 400000.0
	≤ 600000.0
	≤ 800000.0
	≤ 1200000.0
	≤ 2000000.0
	≤ 3000000.0
	≤ 2121786624...

# IDW: Washington and Roxbury

Color	Upper value
	≤ 100000.0
	≤ 200000.0
	≤ 400000.0
	≤ 600000.0
	≤ 800000.0
	≤ 1200000.0
	≤ 2000000.0
	≤ 3000000.0
	≤ 2121786624...












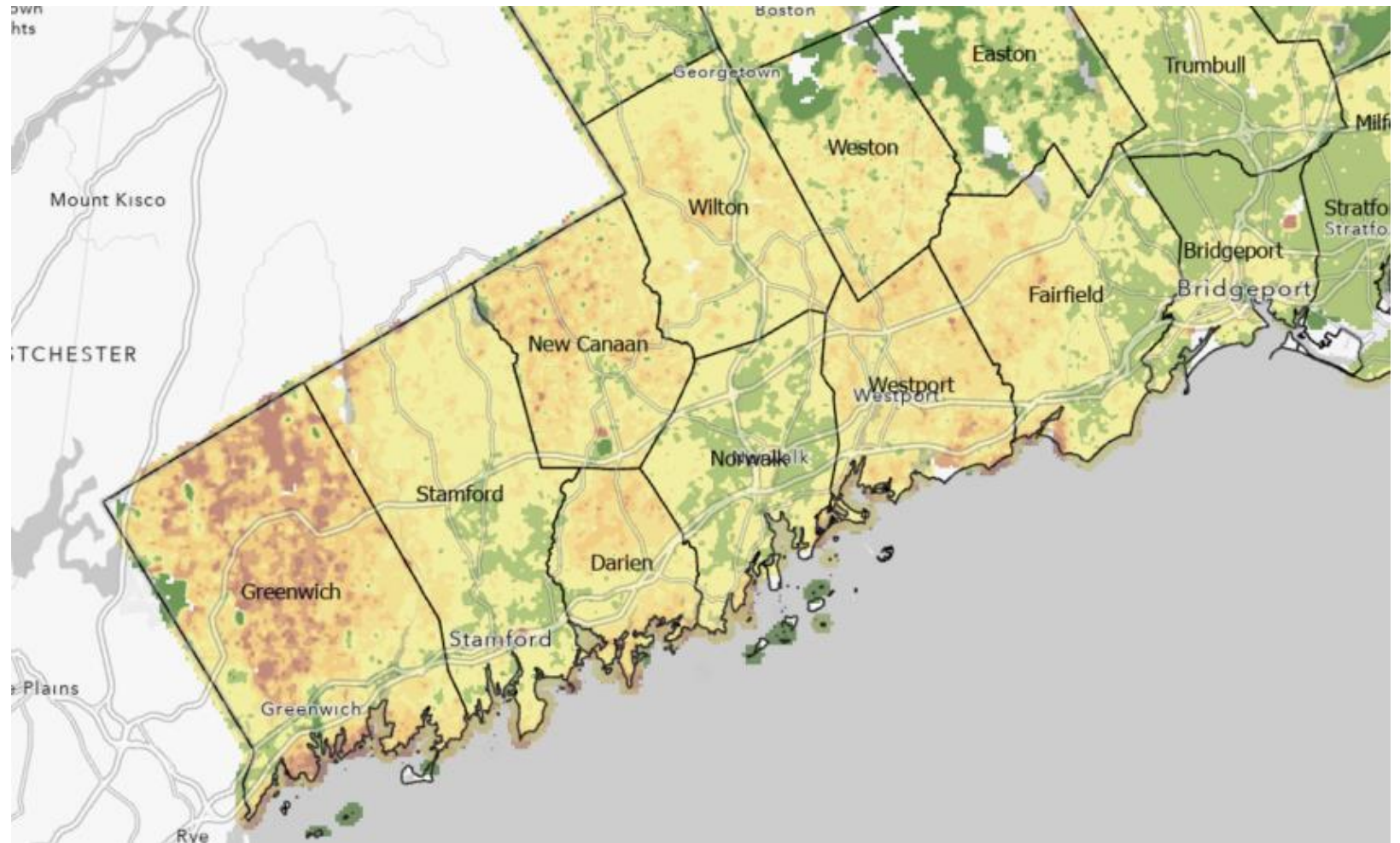
# Name of town matters?



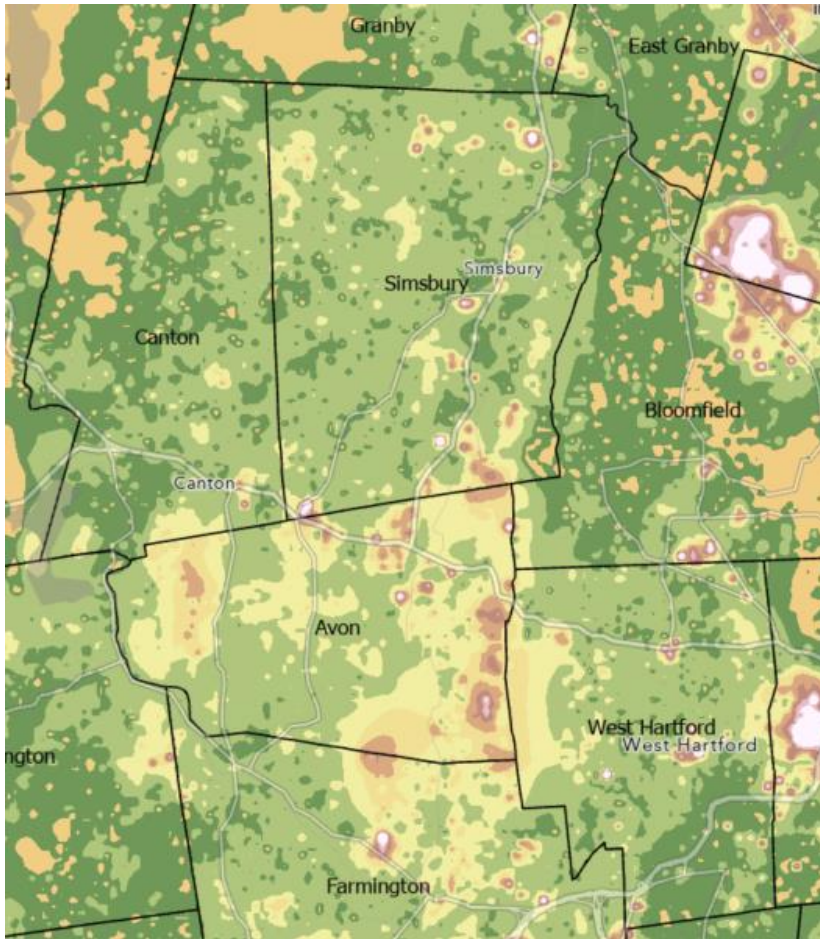


# Bathrooms per dwelling

Color	Upper value	Label
	$\leq 1.0$	-5%
	$\leq 2.0$	1.0
	$\leq 3.0$	2.0
	$\leq 4.0$	3.0
	$\leq 5.0$	4.0
	$\leq 6.0$	5.0
	$\leq 729.728879$	6.0
	$\leq 1664.248709$	72%
	$\leq 3811.666992$	16%

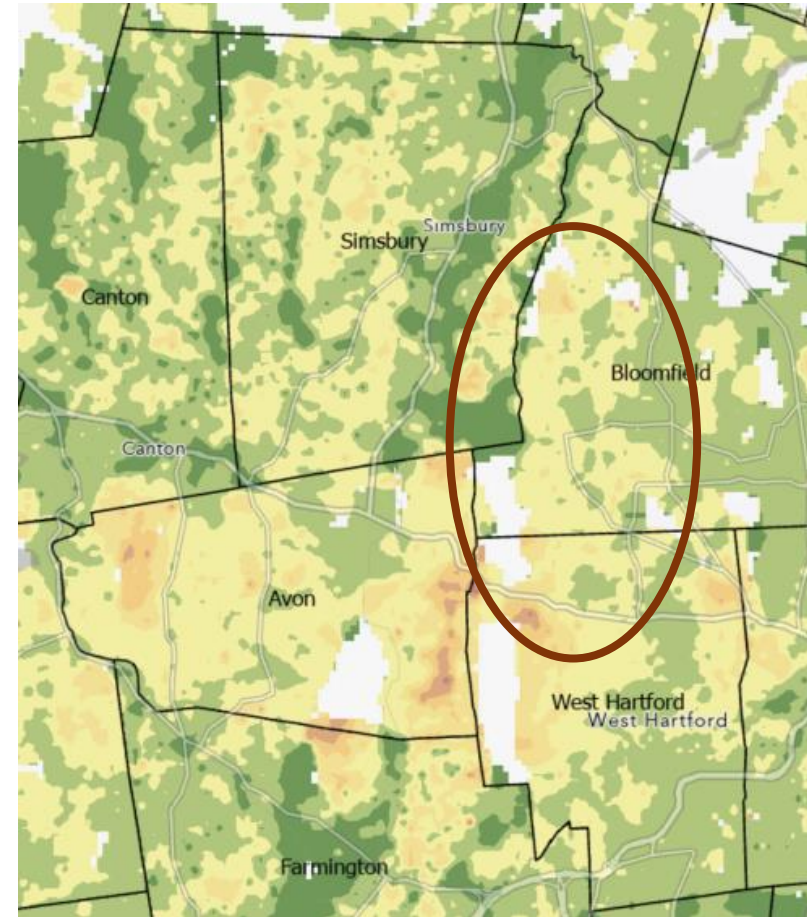


# Comparison between price and bathroom count



Color	Upper value
<span style="color: green;">■</span>	≤ 100000.0
<span style="color: green;">■</span>	≤ 200000.0
<span style="color: green;">■</span>	≤ 400000.0
<span style="color: yellow;">■</span>	≤ 600000.0
<span style="color: yellow;">■</span>	≤ 800000.0
<span style="color: orange;">■</span>	≤ 1200000.0
<span style="color: orange;">■</span>	≤ 2000000.0
<span style="color: pink;">■</span>	≤ 3000000.0

**Sale price**



Color	Upper value
<span style="color: green;">■</span>	≤ 1.0
<span style="color: green;">■</span>	≤ 2.0
<span style="color: yellow;">■</span>	≤ 3.0
<span style="color: yellow;">■</span>	≤ 4.0
<span style="color: orange;">■</span>	≤ 5.0
<span style="color: orange;">■</span>	≤ 6.0

**Bathrooms per unit**

# Building Value Assessment

- Getis-Ord
- Hot spot and cold spot identification

Geoprocessing

Hot Spot Analysis (Getis-Ord Gi\*)

Pending edits.

Parameters Environments

Input Feature Class  
CT\_Parcels

Input Field  
ASSESSED\_BUILDING

Output Feature Class  
CT\_Parcels\_HotSpots

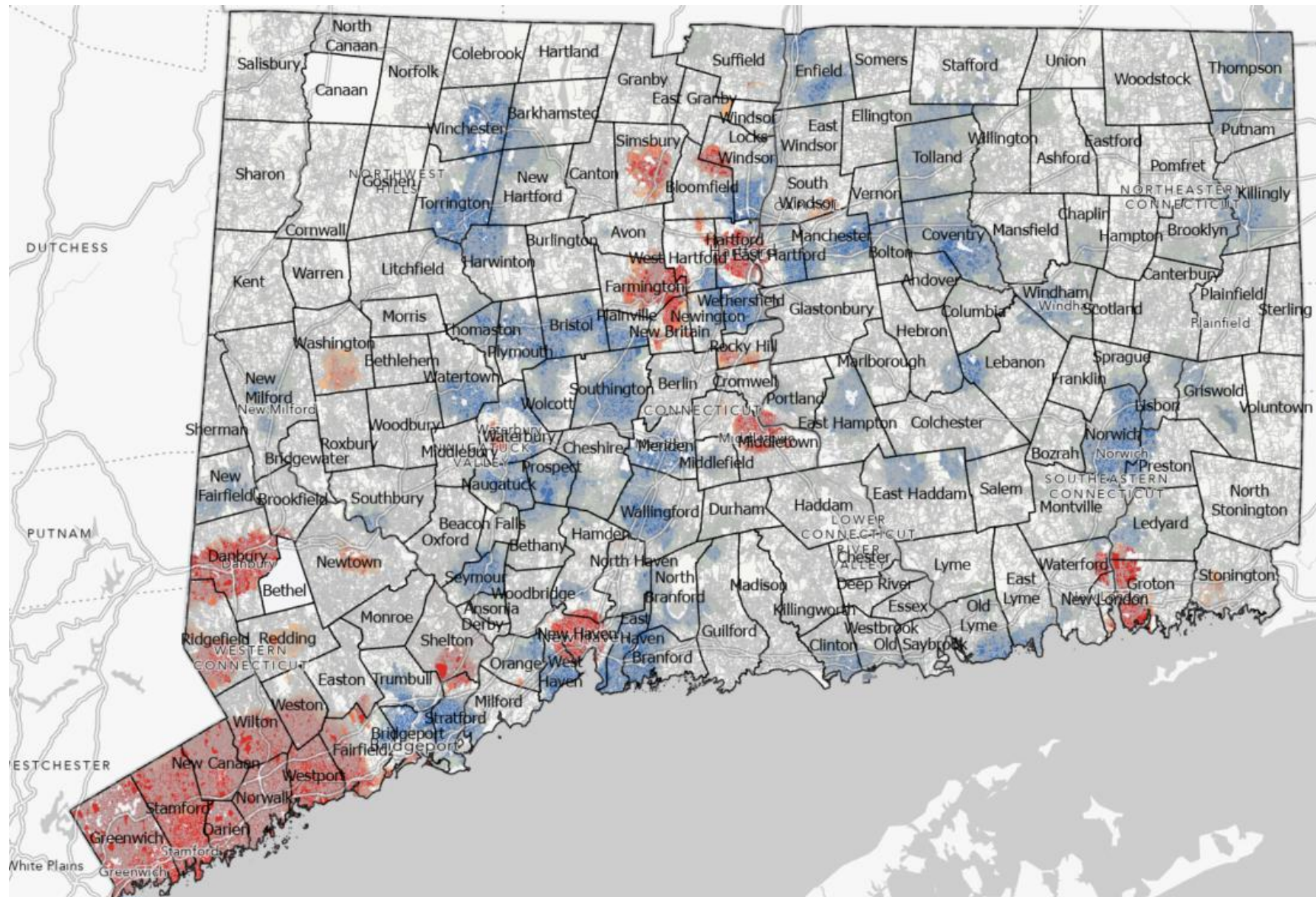
Conceptualization of Spatial Relationships  
Fixed distance band

Distance Method  
Euclidean

Distance Band or Threshold Distance

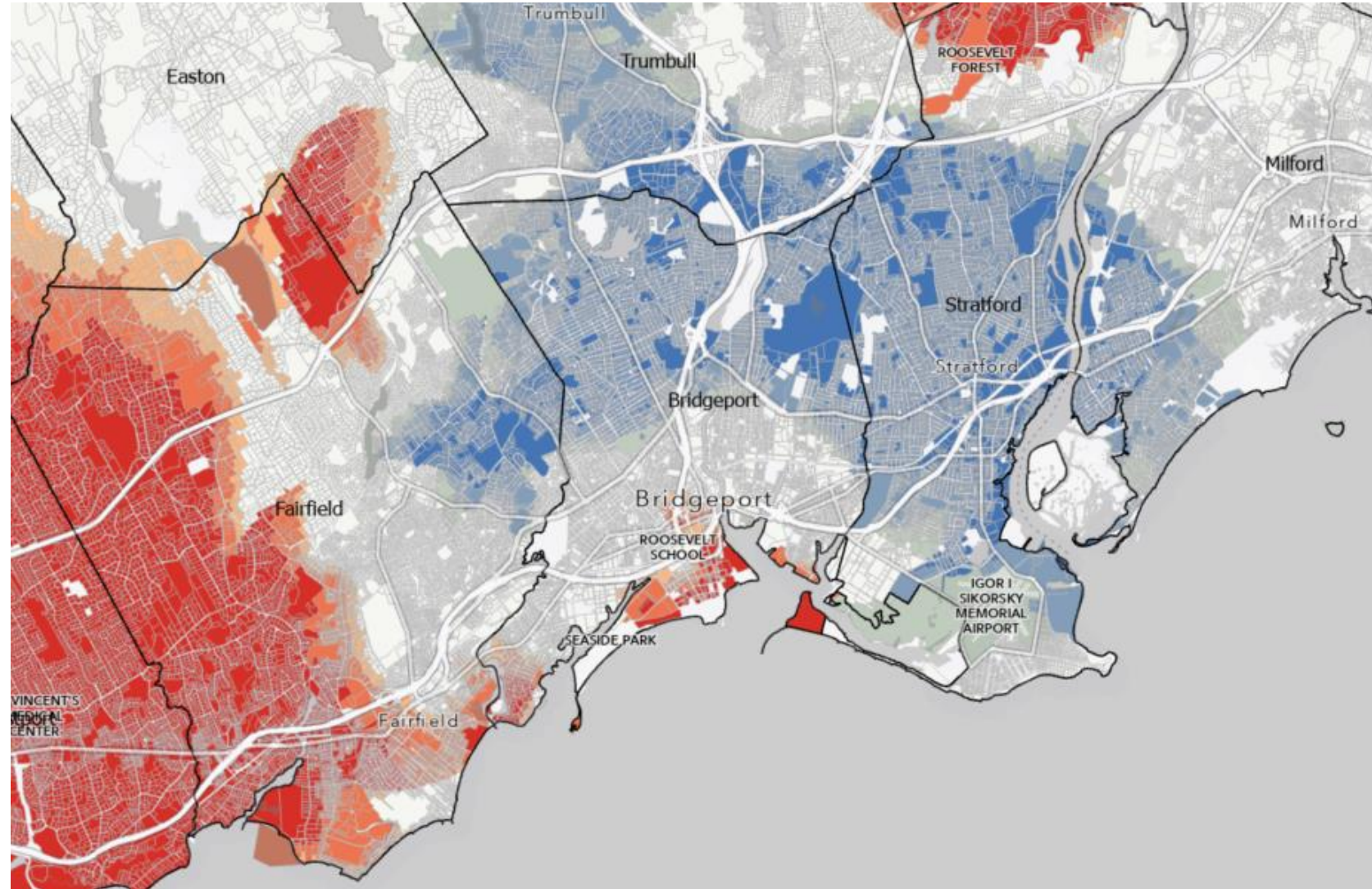
Self Potential Field

Apply False Discovery Rate (FDR) Correction



# Bridgeport

- Inside outside pattern



# Spatial Statistics

## Cluster and Outlier Analysis

- CT\_Parcels\_FeatureToPoint
  - High-High cluster
  - High-Low outlier
  - Low-High outlier
  - Low-Low cluster
  - Not significant
  - No neighbors

Geoprocessing

Cluster and Outlier Analysis (Anseli...)

Pending edits.

Parameters Environments

Input Feature Class  
CT\_Parcels\_FeatureToPoint

Input Field  
ASSESSED\_TOTAL

Output Feature Class  
CT\_Parcels\_FeatureToPoint\_ClustersOutliers

Conceptualization of Spatial Relationships  
Inverse distance

Distance Method  
Euclidean

Standardization  
Row

Distance Band or Threshold Distance  
5280

Apply False Discovery Rate (FDR) Correction

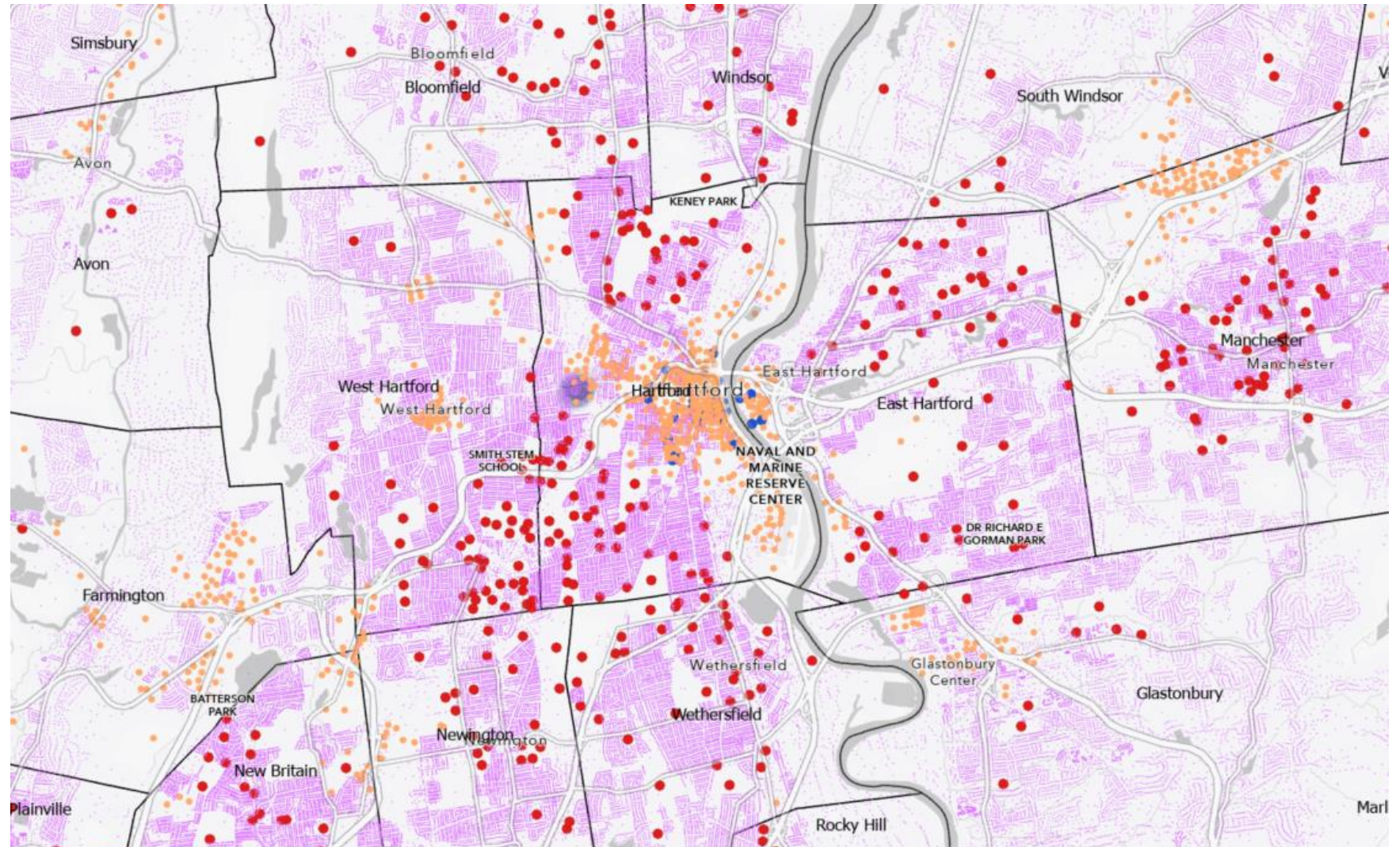
Number of Permutations  
0

# Assessed Total

- Hot spot and cold spot

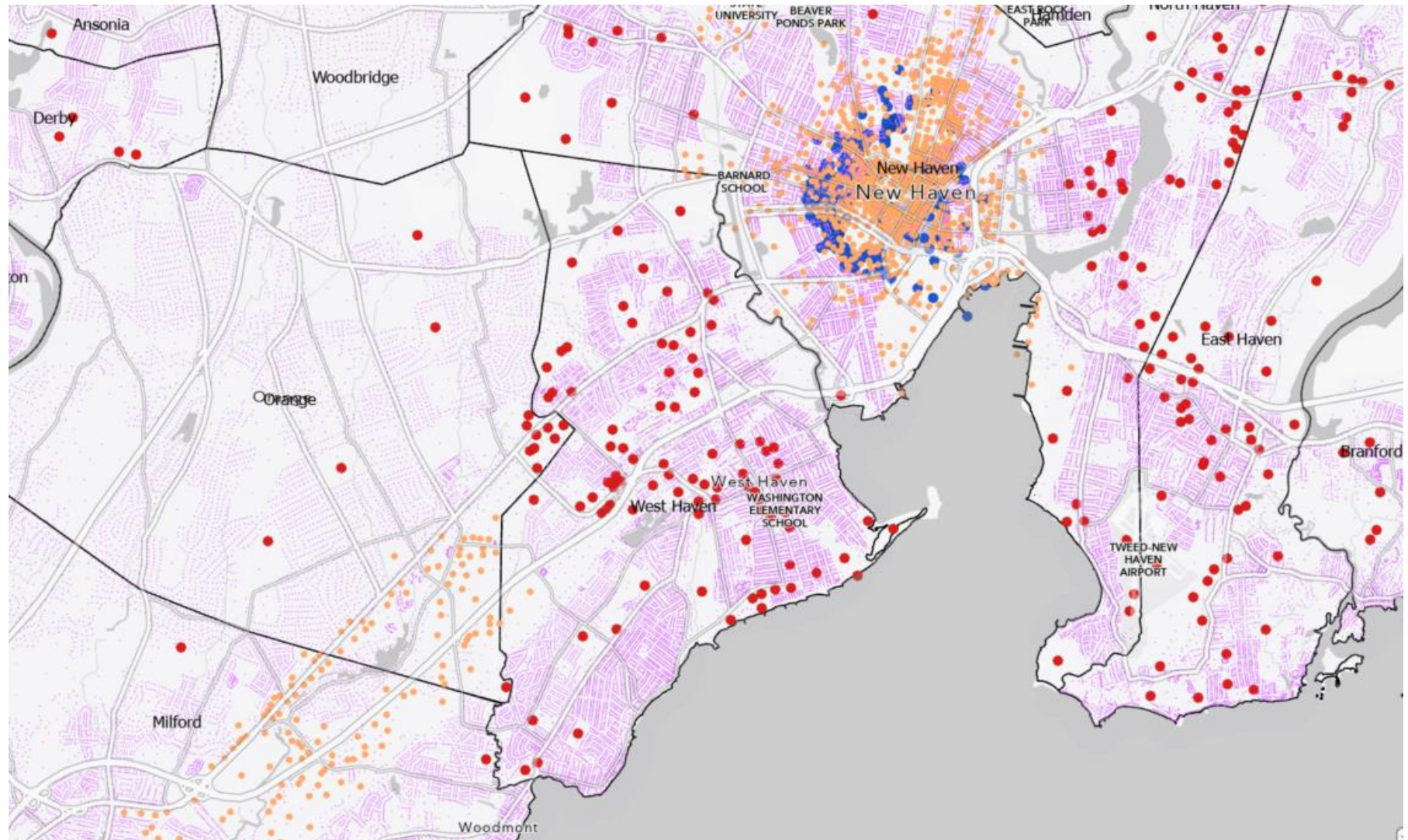
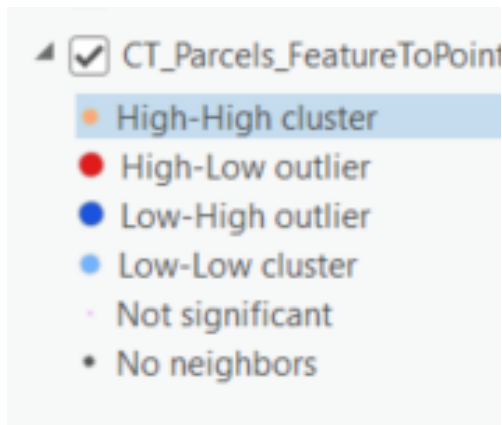
CT\_Parcels\_FeatureToPoint

- High-High cluster
- High-Low outlier
- Low-High outlier
- Low-Low cluster
- Not significant
- No neighbors

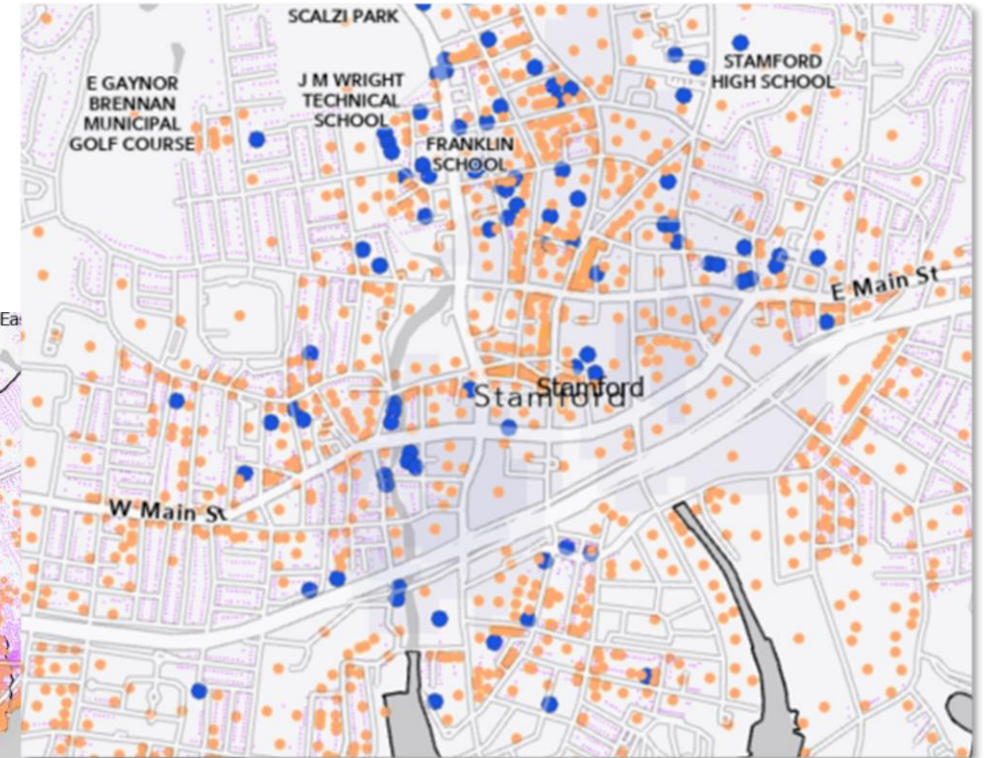
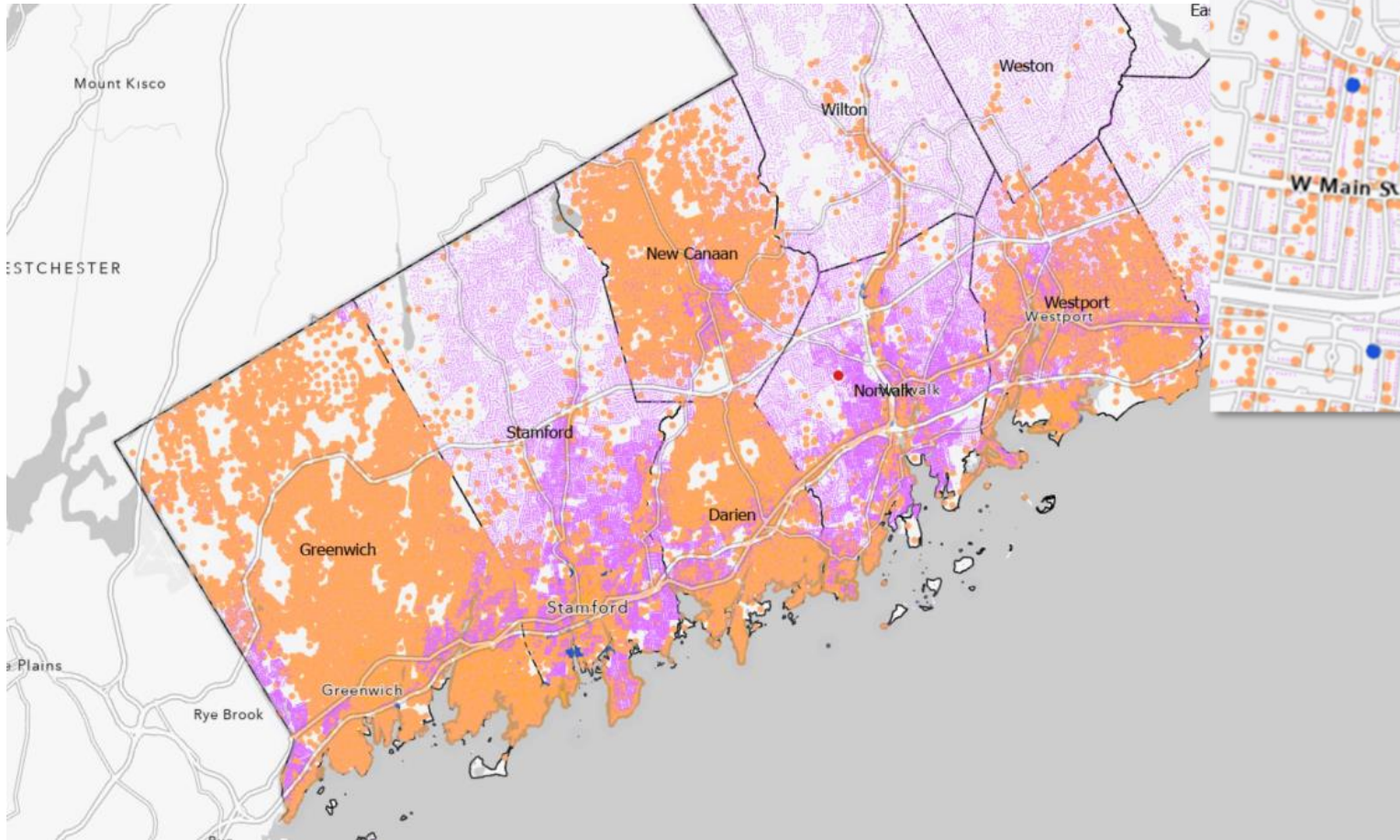


# Assessed Total

- Hot spot and cold spot



# Gold Coast Hot Spots





# What other data sets do we need to work on to maximize utility of Parcels?

- Addressing
  - Buildings
  - Land cover
  - Consistent land use coding
- 
- Can use some of the variables as proxies in other analyses...



# Questions?

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