

# **Analysis of Residential Real Estate Data From Connecticut\***

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## **1 Introduction**

## **2 Data**

The data we used for this analysis is Real Estate Sales data from 2001-2023 from the State of Connecticut's Office of Policy and Management. The sale price of each property is at least \$2,000. Each row is a property which contains information of the town, address, date sold, property type (residential, apartment, commercial, industrial or vacant land), sale price, assessed value, and latitude and longitude coordinates. For the purposes of this analysis, we mainly focus on residential properties and the columns town, property type, sale price, assessed value, and coordinates. Additionally, we picked four cities to focus on: Stamford, Westport, Cheshire, and Sprague. This was done because of the large number of data points and to investigate any differences in towns with varying levels of median income. Westport, CT has the highest median income at \$250,001, then we picked Cheshire, CT at \$150,787 for upper middle, Stamford, CT for lower middle, and Sprague, CT for the lowest. We also wanted to sample towns with different populations and densities. (2025, n.d.).

### **2.1 Data Cleaning**

Many of the data points were missing or were empty characters, so we dropped those rows. Since our goal is centered on residential properties, we filtered out rows that were not residential. Additionally, the Sales.Ratio column needed to be transformed into a numeric value.

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\*Project repository available at: [https://github.com/meganajoseph/167r\\_project](https://github.com/meganajoseph/167r_project).

## 2.2 Descriptive Statistics

We analyzed the mean, minimum value, maximum value, first quantile, median, and third quantile of the Sale.Amount, Assessed.Value, and Sales.Ratio columns. The information is summarized in the table below.

Column	Mean	Minimum	Maximum	1st Quartile	Median	3rd Quartile
Sale Amount	$7.7 \times 10^5$	2160	$7.2 \times 10^7$	$3.1 \times 10^5$	$5.04 \times 10^5$	$8.2 \times 10^5$
Assessed Value	$4.6 \times 10^5$	0	$2.5 \times 10^7$	$2 \times 10^5$	$3.3 \times 10^5$	$5.3 \times 10^5$
Sales Ratio	0.8	0	291.94	0.55	0.64	0.76

## 3 Graphs

### 3.1 Categorical

We created bar plots to see the number of entries per town of interest and per residential type.

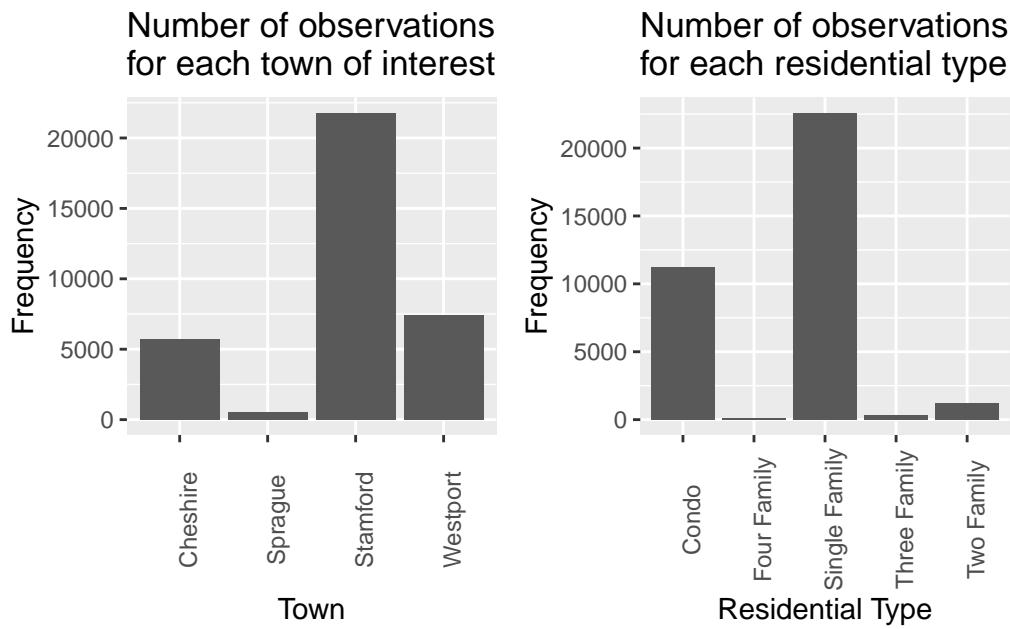


Figure 1: The plot of the left shows that the number of observations is greatest for Stamford and lowest for Sprague. The plot of the right shows that There are more entires for Single Family and Condo properties and very few for Two Family, Three Family, and Four Family.

Since Stamford is a big city with a large population, it makes sense for it to have the most entries. On the other hand, Sprague is the opposite as a small town with a small population which accounts for the low amount of sales. Most housing are Single Family or Condos. It is rare to see Two Family and above sized homes being built.

## 3.2 Continuous

### 3.2.1 Distribution of Sale Price



Figure 2: Sale price seems to be centered at around  $\$e^{13}$ .

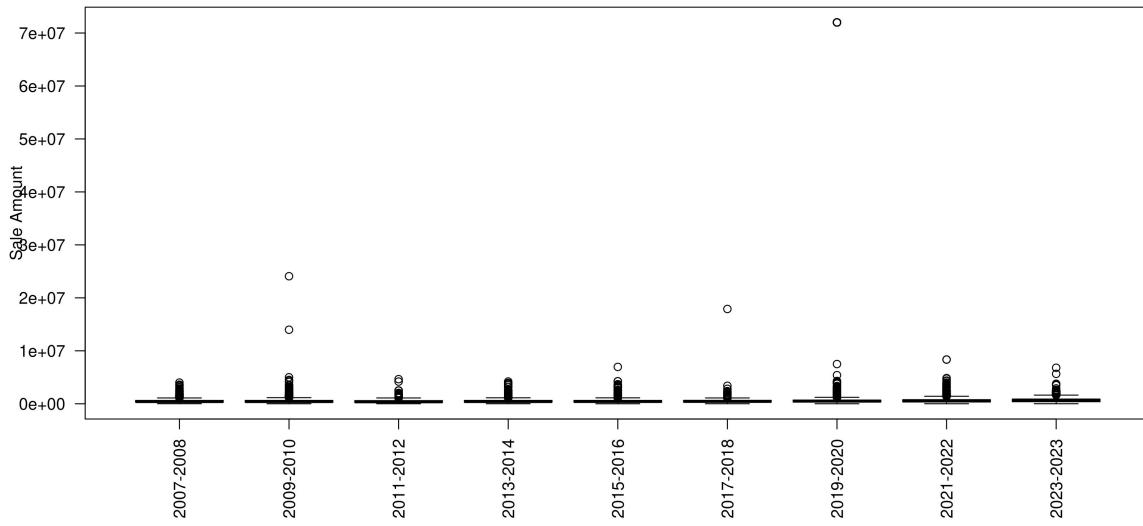
We took the log of the sale price because it is extremely right skewed otherwise. We see that the data is centered at around  $\$e^{13} \approx \$442,413$ .

### 3.2.2 Box Plots By Town

We constructed a series of boxplots and scatterplots for each of our continuous variables (sale price, assessed value, and sales ratio), and then repeating this step for each of the four towns selected (Stamford, Westport, Cheshire, and Sprague). We decided that aligning the boxplots vertically and then sorting them in time order would effectively demonstrate trends over time in a more effective manner.

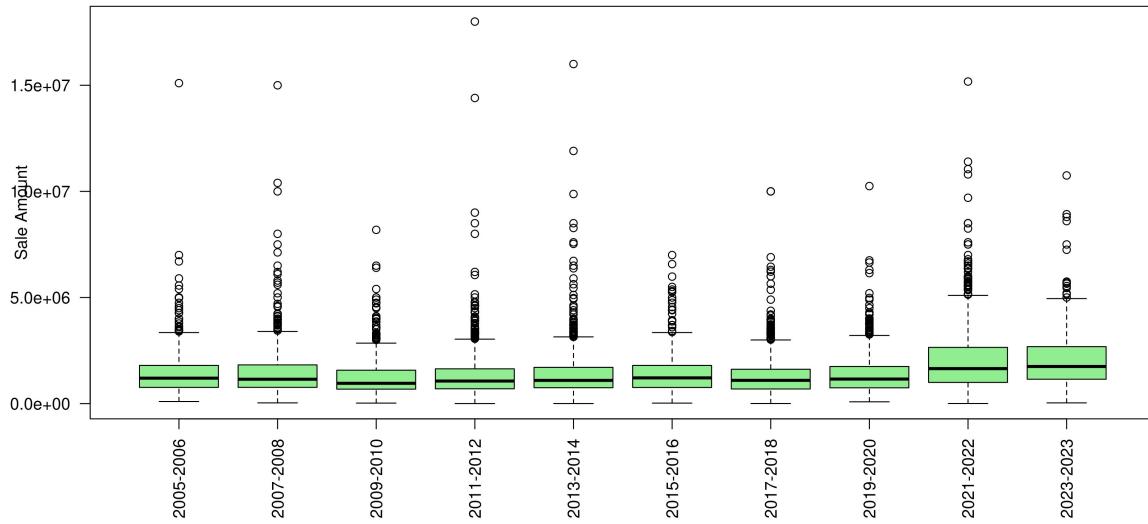
Sales Amounts:

**Sale Amount Trends - Stamford**



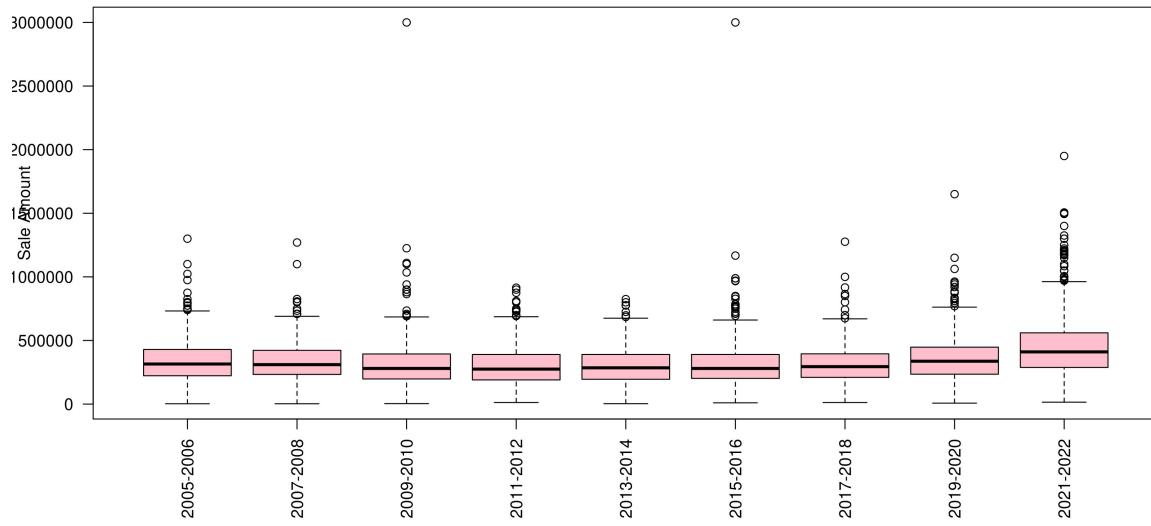
We are still combing through the upper end of the Sale Amount column for errors. In a dataset this large, there are bound to be mistakes which lead to unreasonable figures which deserve to be deleted.

**Sale Amount Trends - Westport**



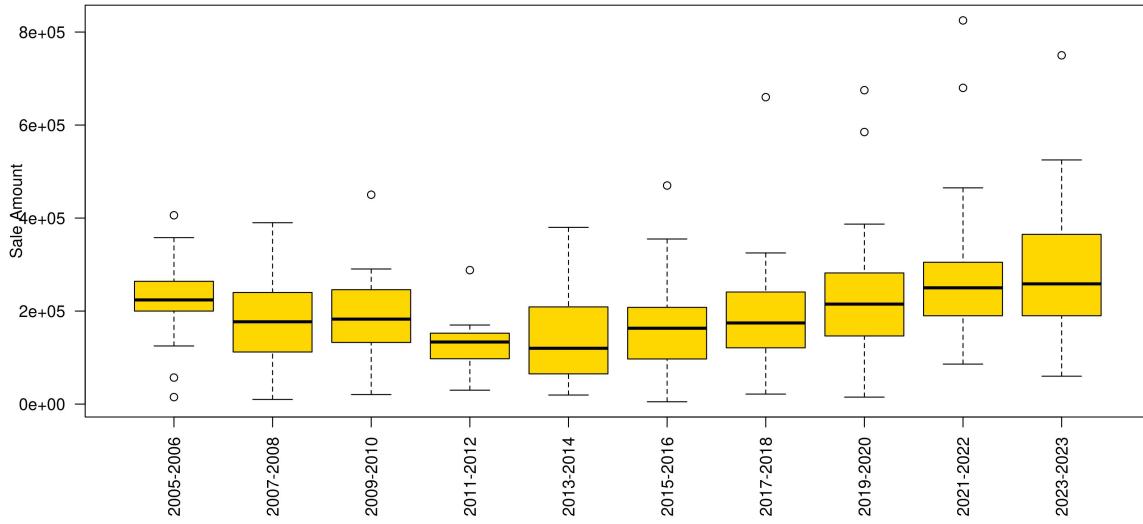
Here we see some evidence of national and regional property market trends in a very right skewed town. The large number of outliers, some of which are priced rather high, speaks to a desirable coastal community within easy commuting distance of New York City. Notice the rapid outlier rebound after the 2008 financial crisis.

Sale Amount Trends - Cheshire



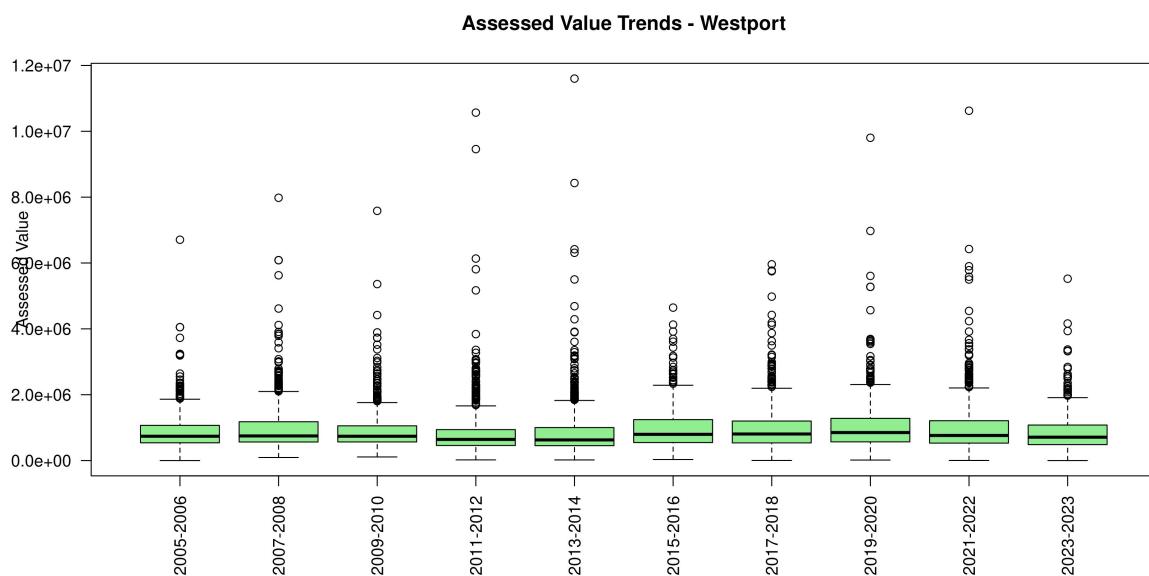
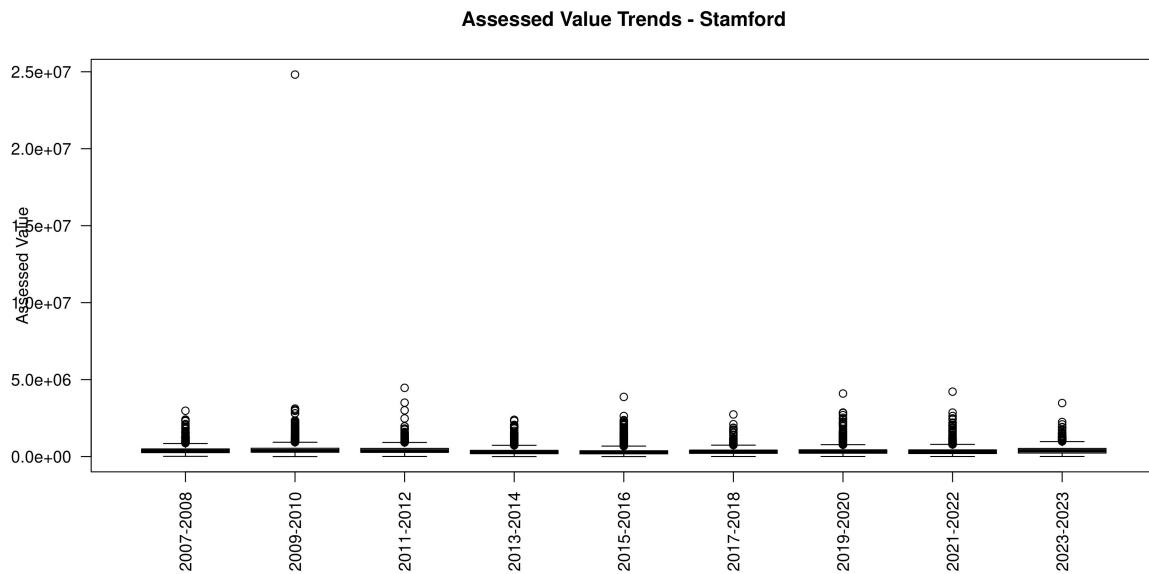
Prices in Cheshire seemed to slump for longer after 2008, both in the outlier spread and the main quartiles, not really rebounding until the Covid-19 pandemic. It is farther away from major metropolitan areas and the coast, with a smaller population. It appeals to buyers with more modest means.

Sale Amount Trends - Sprague

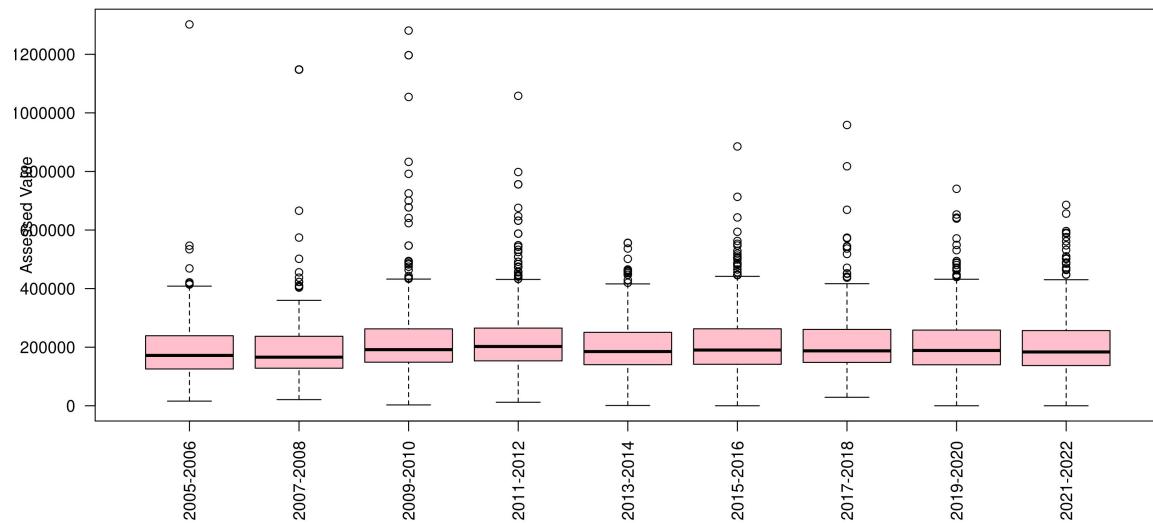


Sprague, the smallest of the towns we chose, displayed more year to year variability and a great deal more market driven variability than larger towns. Part of that is likely due to lower sales volume, and perhaps since it is less prosperous it was a relative bargain and accessible to more buyers.

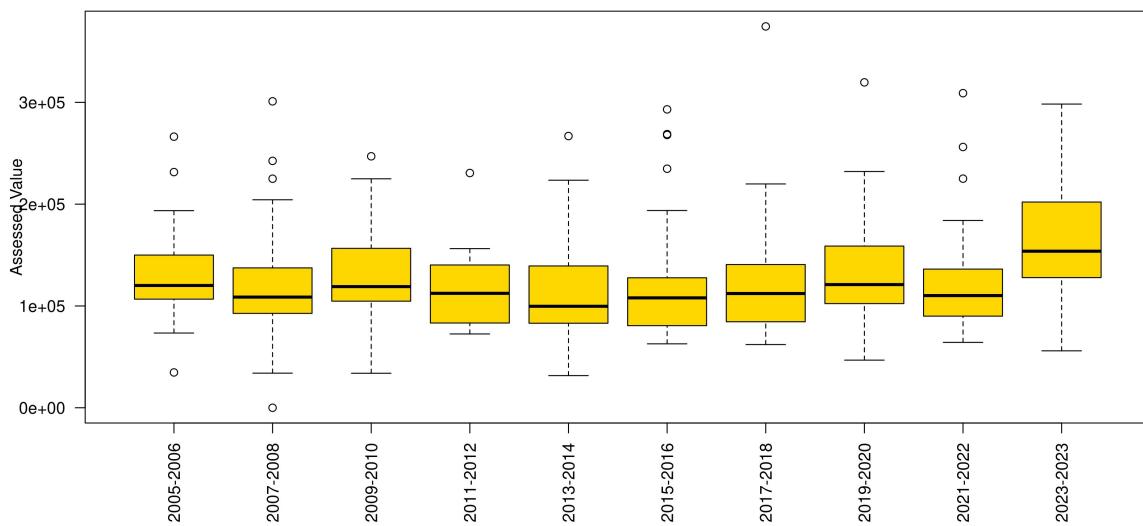
Assessed Values:



Assessed Value Trends - Cheshire



Assessed Value Trends - Sprague



Sales Ratio:

## 4 Advanced Analysis

```
locations <- real_estate %>% select("Town", "Assessed.Value", "Sale.Amount", "Location") %>%
  filter(!is.na(Town) & Town != "" &
```

```

!is.na(Assessed.Value) & Assessed.Value != "" &
!is.na(Sale.Amount) & Sale.Amount != "" &
!is.na(Location) & Location != "")

loc_split <- within(locations, Location <- data.frame(do.call('rbind', strsplit(as.character
loc_split$Latitude <- as.numeric(gsub("\\\\(", "", loc_split$Location$X2))
loc_split$Longitude <- as.numeric(gsub("\\\\)", "", loc_split$Location$X3))
loc_split <- loc_split %>%
  select("Town", "Assessed.Value", "Sale.Amount", "Latitude", "Longitude") %>%
  filter(Latitude < -69 & Latitude > -74 & Longitude < 42.5 & Longitude > 40)

new_dir <- "graphs/heatmaps"
if (!dir.exists(new_dir)) {
  dir.create(new_dir, recursive = TRUE)
}
#swap latitude longitude
temp <- loc_split$Latitude
loc_split$Latitude <- loc_split$Longitude
loc_split$Longitude <- temp

stamford <- loc_split[loc_split$Town == "Stamford",]

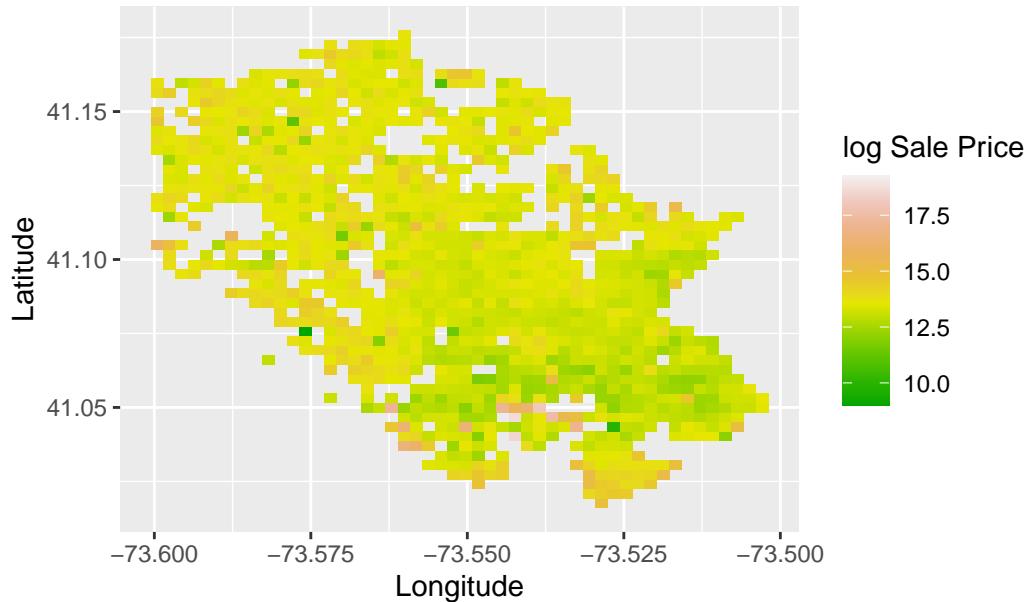
stamford_filtered <- loc_split[
  loc_split$Town == "Stamford" &
  loc_split$Latitude >= 41 & loc_split$Latitude <= 42 &
  loc_split$Longitude >= -73.6 & loc_split$Longitude <= -73.4,
]

ggplot(stamford_filtered, aes(x=Longitude, y=Latitude, z=log(Sale.Amount))) +
  stat_summary_2d(fun = median, bins = 50) +
  scale_fill_gradientn(colors=terrain.colors(10), name="log Sale Price") +
  labs(title="Density of Sale Price in Stamford")

```

Warning: Removed 1 row containing non-finite outside the scale range  
(`stat\_summary2d()`).

## Density of Sale Price in Stamford



```
nrow(stamford)
```

```
[1] 11797
```

```
unique(loc_split$Town)
```

```
[1] "Ansonia"          "Avon"            "Bridgeport"  
[4] "Bristol"           "Burlington"       "Cheshire"  
[7] "Colebrook"         "Coventry"         "East Haddam"  
[10] "East Haven"        "East Hampton"     "Easton"  
[13] "Fairfield"         "Glastonbury"      "Greenwich"  
[16] "Guilford"          "Hamden"          "Groton"  
[19] "Kent"              "Litchfield"       "Hartford"  
[22] "Middletown"        "New Britain"      "New Haven"  
[25] "Newtown"           "North Stonington" "Norwalk"  
[28] "Norwich"           "Old Saybrook"     "Plainfield"  
[31] "Portland"          "Ridgefield"       "Simsbury"  
[34] "Somers"             "South Windsor"    "Stamford"  
[37] "Salem"              "Sterling"         "Stratford"  
[40] "Torrington"         "Union"           "Waterbury"  
[43] "Watertown"          "New London"       "Westport"  
[46] "Wethersfield"       "Windsor"          "Windsor Locks"
```

[49]	"Thompson"	"Redding"	"Southington"
[52]	"Newington"	"Plainville"	"Bloomfield"
[55]	"Madison"	"Hartland"	"Barkhamsted"
[58]	"Darien"	"Goshen"	"Bridgewater"
[61]	"Canton"	"Ledyard"	"Mansfield"
[64]	"Farmington"	"Danbury"	"East Granby"
[67]	"Ellington"	"Monroe"	"Branford"
[70]	"Bethany"	"New Canaan"	"Bethel"
[73]	"Berlin"	"Canterbury"	"Haddam"
[76]	"Cromwell"	"Essex"	"Granby"
[79]	"Killingly"	"Harwinton"	"Marlborough"
[82]	"Derby"	"Brooklyn"	"Lyme"
[85]	"Chester"	"Naugatuck"	"Clinton"
[88]	"East Windsor"	"Bethlehem"	"Bolton"
[91]	"New Fairfield"	"Chaplin"	"Deep River"
[94]	"Middlefield"	"Lebanon"	"Meriden"
[97]	"Tolland"	"Hampton"	"Durham"
[100]	"Bozrah"	"Eastford"	"Franklin"
[103]	"Morris"	"Canaan"	"Enfield"
[106]	"Brookfield"	"East Lyme"	"Manchester"
[109]	"East Hartford"	"Griswold"	"Columbia"
[112]	"Colchester"	"Beacon Falls"	"Hebron"
[115]	"Cornwall"	"Ashford"	"Killingworth"
[118]	"Lisbon"	"Andover"	"North Branford"
[121]	"Shelton"	"Milford"	"Southbury"
[124]	"Old Lyme"	"Middlebury"	"Stonington"
[127]	"North Haven"	"Orange"	"Rocky Hill"
[130]	"Montville"	"North Canaan"	"Plymouth"
[133]	"Putnam"	"Sherman"	"Scotland"
[136]	"New Hartford"	"Sharon"	"Roxbury"
[139]	"Sprague"	"Preston"	"Norfolk"
[142]	"Woodbridge"	"West Hartford"	"Wilton"
[145]	"Waterford"	"Suffield"	"Thomaston"
[148]	"Trumbull"	"Westbrook"	"Vernon"
[151]	"Warren"	"Windham"	"Woodbury"
[154]	"Weston"	"Washington"	"Woodstock"
[157]	"Winchester"	"Wolcott"	"Willington"
[160]	"Wallingford"	"Oxford"	"Stafford"
[163]	"New Milford"	"Voluntown"	"Seymour"
[166]	"Pomfret"	"Prospect"	"Salisbury"
[169]	"West Haven"		

```
head(loc_split[loc_split$Town=='Stamford',])
```

	Town	Assessed.Value	Sale.Amount	Latitude	Longitude
46	Stamford	198520	360000	41.06222	-73.51316
47	Stamford	92880	110000	41.04909	-73.52572
49	Stamford	721570	950000	41.04809	-73.55710
68	Stamford	311840	569000	41.07260	-73.51997
72	Stamford	359500	729750	41.07916	-73.55220
16106	Stamford	348630	650000	41.10302	-73.51218

```
str(loc_split)
```

```
'data.frame': 341229 obs. of 5 variables:  
 $ Town : chr "Ansonia" "Avon" "Avon" "Bridgeport" ...  
 $ Assessed.Value: num 133000 179990 528490 110610 8400 ...  
 $ Sale.Amount : num 248400 362500 775000 50000 38500 ...  
 $ Latitude : num 41.4 41.8 41.8 41.2 41.7 ...  
 $ Longitude : num -73.1 -72.9 -72.9 -73.2 -72.9 ...
```

```
locations <- real_estate %>% select("Town", "Assessed.Value", "Sale.Amount", "Location") %>%  
  filter(!is.na(Town) & Town != "" &  
        !is.na(Assessed.Value) & Assessed.Value != "" &  
        !is.na(Sale.Amount) & Sale.Amount != "" &  
        !is.na(Location) & Location != "")  
  
loc_split <- within(locations, Location <- data.frame(do.call('rbind', strsplit(as.character  
loc_split$Latitude <- as.numeric(gsub("\\\\(", "", loc_split$Location$X2))  
loc_split$Longitude <- as.numeric(gsub("\\\\)", "", loc_split$Location$X3))  
loc_split <- loc_split %>%  
  select("Town", "Assessed.Value", "Sale.Amount", "Latitude", "Longitude") %>%  
  filter(Latitude < -69 & Latitude > -74 & Longitude < 42.5 & Longitude > 40)  
  
new_dir <- "graphs/heatmaps"  
if (!dir.exists(new_dir)) {  
  dir.create(new_dir, recursive = TRUE)  
}  
#swap latitude longitude  
temp <- loc_split$Latitude  
loc_split$Latitude <- loc_split$Longitude
```

```

loc_split$Longitude <- temp

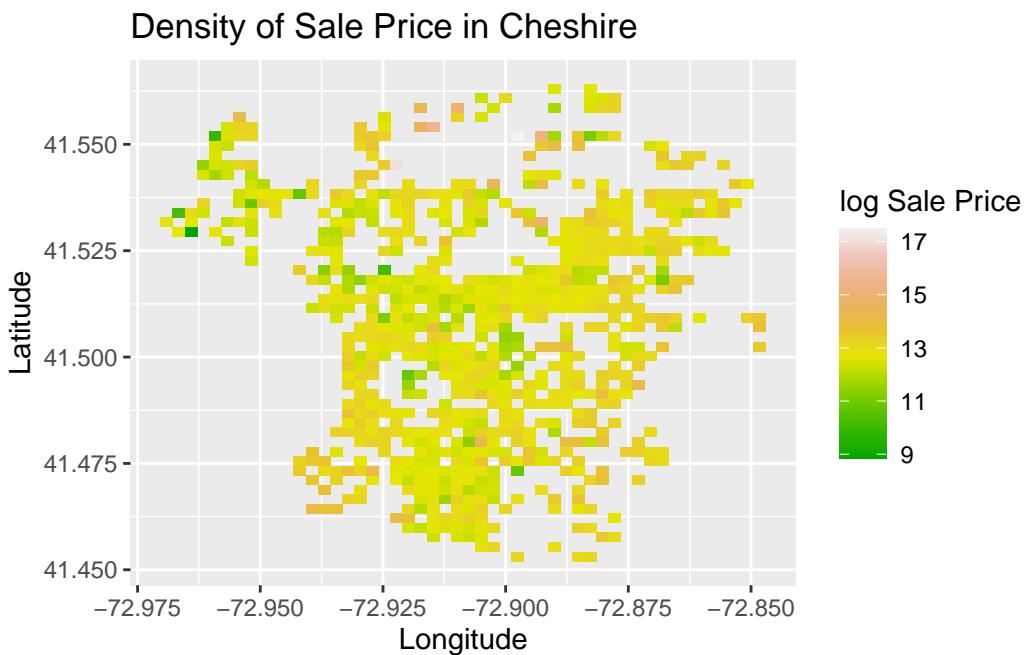
cheshire <- loc_split[loc_split$Town == "Cheshire",]

cheshire_filtered <- loc_split[
  loc_split$Town == "Cheshire" &
  loc_split$Latitude >= 41.4 & loc_split$Latitude <= 41.6 &
  loc_split$Longitude >= -73 & loc_split$Longitude <= -72.75,
]

ggplot(cheshire_filtered, aes(x=Longitude, y=Latitude, z=log(Sale.Amount))) +
  stat_summary_2d(fun = median, bins = 50) +
  scale_fill_gradientn(colors=terrain.colors(10), name="log Sale Price") +
  labs(title="Density of Sale Price in Cheshire")

```

Warning: Removed 2 rows containing non-finite outside the scale range  
(`stat\_summary2d()`).



```

locations <- real_estate %>% select("Town", "Assessed.Value", "Sale.Amount", "Location") %>%
  filter(!is.na(Town) & Town != "" &

```

```

!is.na(Assessed.Value) & Assessed.Value != "" &
!is.na(Sale.Amount) & Sale.Amount != "" &
!is.na(Location) & Location != "")

loc_split <- within(locations, Location <- data.frame(do.call('rbind', strsplit(as.character
loc_split$Latitude <- as.numeric(gsub("\\\\(", "", loc_split$Location$X2))
loc_split$Longitude <- as.numeric(gsub("\\\\)", "", loc_split$Location$X3)))
loc_split <- loc_split %>%
  select("Town", "Assessed.Value", "Sale.Amount", "Latitude", "Longitude") %>%
  filter(Latitude < -69 & Latitude > -74 & Longitude < 42.5 & Longitude > 40)

new_dir <- "graphs/heatmaps"
if (!dir.exists(new_dir)) {
  dir.create(new_dir, recursive = TRUE)
}
#swap latitude longitude
temp <- loc_split$Latitude
loc_split$Latitude <- loc_split$Longitude
loc_split$Longitude <- temp

# westport sale price heatmap
westport <- loc_split[loc_split$Town == "Westport",]

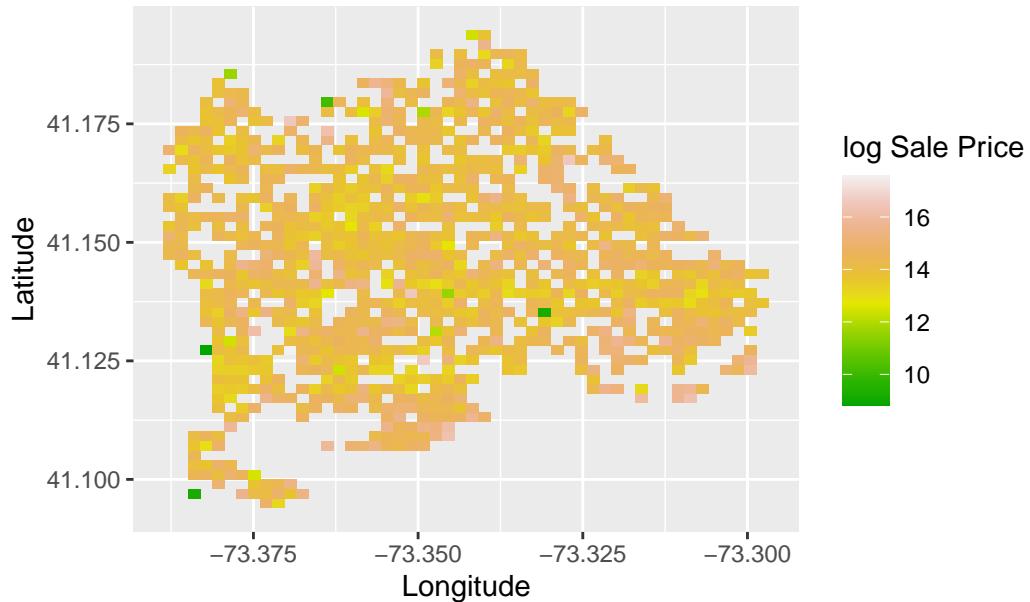
westport_filtered <- loc_split[
  loc_split$Town == "Westport" &
  loc_split$Latitude >= 41.09 & loc_split$Latitude <= 41.68 &
  loc_split$Longitude >= -73.4 & loc_split$Longitude <= -72.9,
]

ggplot(westport_filtered, aes(x=Longitude, y=Latitude, z=log(Sale.Amount))) +
  stat_summary_2d(fun = median, bins = 50) +
  scale_fill_gradientn(colors=terrain.colors(10), name="log Sale Price") +
  labs(title="Density of Sale Price in Westport")

```

Warning: Removed 21 rows containing non-finite outside the scale range  
(`stat\_summary2d()`).

## Density of Sale Price in Westport



```
nrow(westport)
```

```
[1] 3182
```

```
unique(loc_split$Town)
```

```
[1] "Ansonia"          "Avon"           "Bridgeport"  
[4] "Bristol"          "Burlington"       "Cheshire"  
[7] "Colebrook"         "Coventry"         "East Haddam"  
[10] "East Haven"        "East Hampton"     "Easton"  
[13] "Fairfield"         "Glastonbury"      "Greenwich"  
[16] "Guilford"          "Hamden"          "Groton"  
[19] "Kent"              "Litchfield"       "Hartford"  
[22] "Middletown"        "New Britain"      "New Haven"  
[25] "Newtown"           "North Stonington" "Norwalk"  
[28] "Norwich"           "Old Saybrook"     "Plainfield"  
[31] "Portland"          "Ridgefield"       "Simsbury"  
[34] "Somers"            "South Windsor"    "Stamford"  
[37] "Salem"              "Sterling"         "Stratford"  
[40] "Torrington"         "Union"           "Waterbury"  
[43] "Watertown"         "New London"       "Westport"
```

[46]	"Wethersfield"	"Windsor"	"Windsor Locks"
[49]	"Thompson"	"Redding"	"Southington"
[52]	"Newington"	"Plainville"	"Bloomfield"
[55]	"Madison"	"Hartland"	"Barkhamsted"
[58]	"Darien"	"Goshen"	"Bridgewater"
[61]	"Canton"	"Ledyard"	"Mansfield"
[64]	"Farmington"	"Danbury"	"East Granby"
[67]	"Ellington"	"Monroe"	"Branford"
[70]	"Bethany"	"New Canaan"	"Bethel"
[73]	"Berlin"	"Canterbury"	"Haddam"
[76]	"Cromwell"	"Essex"	"Granby"
[79]	"Killingly"	"Harwinton"	"Marlborough"
[82]	"Derby"	"Brooklyn"	"Lyme"
[85]	"Chester"	"Naugatuck"	"Clinton"
[88]	"East Windsor"	"Bethlehem"	"Bolton"
[91]	"New Fairfield"	"Chaplin"	"Deep River"
[94]	"Middlefield"	"Lebanon"	"Meriden"
[97]	"Tolland"	"Hampton"	"Durham"
[100]	"Bozrah"	"Eastford"	"Franklin"
[103]	"Morris"	"Canaan"	"Enfield"
[106]	"Brookfield"	"East Lyme"	"Manchester"
[109]	"East Hartford"	"Griswold"	"Columbia"
[112]	"Colchester"	"Beacon Falls"	"Hebron"
[115]	"Cornwall"	"Ashford"	"Killingworth"
[118]	"Lisbon"	"Andover"	"North Branford"
[121]	"Shelton"	"Milford"	"Southbury"
[124]	"Old Lyme"	"Middlebury"	"Stonington"
[127]	"North Haven"	"Orange"	"Rocky Hill"
[130]	"Montville"	"North Canaan"	"Plymouth"
[133]	"Putnam"	"Sherman"	"Scotland"
[136]	"New Hartford"	"Sharon"	"Roxbury"
[139]	"Sprague"	"Preston"	"Norfolk"
[142]	"Woodbridge"	"West Hartford"	"Wilton"
[145]	"Waterford"	"Suffield"	"Thomaston"
[148]	"Trumbull"	"Westbrook"	"Vernon"
[151]	"Warren"	"Windham"	"Woodbury"
[154]	"Weston"	"Washington"	"Woodstock"
[157]	"Winchester"	"Wolcott"	"Willington"
[160]	"Wallingford"	"Oxford"	"Stafford"
[163]	"New Milford"	"Voluntown"	"Seymour"
[166]	"Pomfret"	"Prospect"	"Salisbury"
[169]	"West Haven"		

```
head(loc_split[loc_split$Town=='Westport',])
```

	Town	Assessed.Value	Sale.Amount	Latitude	Longitude
60	Westport	1303400	2780000	41.13288	-73.31059
79112	Westport	521400	1750000	41.12662	-73.35673
79113	Westport	1132300	2275000	41.11800	-73.34655
79116	Westport	441200	840000	41.12248	-73.37279
79122	Westport	1019000	1999000	41.15428	-73.37139
79130	Westport	425000	719228	41.13654	-73.30621

```
str(loc_split)
```

```
'data.frame': 341229 obs. of 5 variables:  
 $ Town : chr "Ansonia" "Avon" "Avon" "Bridgeport" ...  
 $ Assessed.Value: num 133000 179990 528490 110610 8400 ...  
 $ Sale.Amount : num 248400 362500 775000 50000 38500 ...  
 $ Latitude : num 41.4 41.8 41.8 41.2 41.7 ...  
 $ Longitude: num -73.1 -72.9 -72.9 -73.2 -72.9 ...
```

```
locations <- real_estate %>% select("Town", "Assessed.Value", "Sale.Amount", "Location") %>%  
  filter(!is.na(Town) & Town != "" &  
        !is.na(Assessed.Value) & Assessed.Value != "" &  
        !is.na(Sale.Amount) & Sale.Amount != "" &  
        !is.na(Location) & Location != "")  
  
loc_split <- within(locations, Location <- data.frame(do.call('rbind', strsplit(as.character  
loc_split$Latitude <- as.numeric(gsub("\\\\(", "", loc_split$Location$X2))  
loc_split$Longitude <- as.numeric(gsub("\\\\)", "", loc_split$Location$X3))  
loc_split <- loc_split %>%  
  select("Town", "Assessed.Value", "Sale.Amount", "Latitude", "Longitude") %>%  
  filter(Latitude < -69 & Latitude > -74 & Longitude < 42.5 & Longitude > 40)  
  
new_dir <- "graphs/heatmaps"  
if (!dir.exists(new_dir)) {  
  dir.create(new_dir, recursive = TRUE)  
}  
#swap latitude longitude  
temp <- loc_split$Latitude  
loc_split$Latitude <- loc_split$Longitude
```

```

loc_split$Longitude <- temp

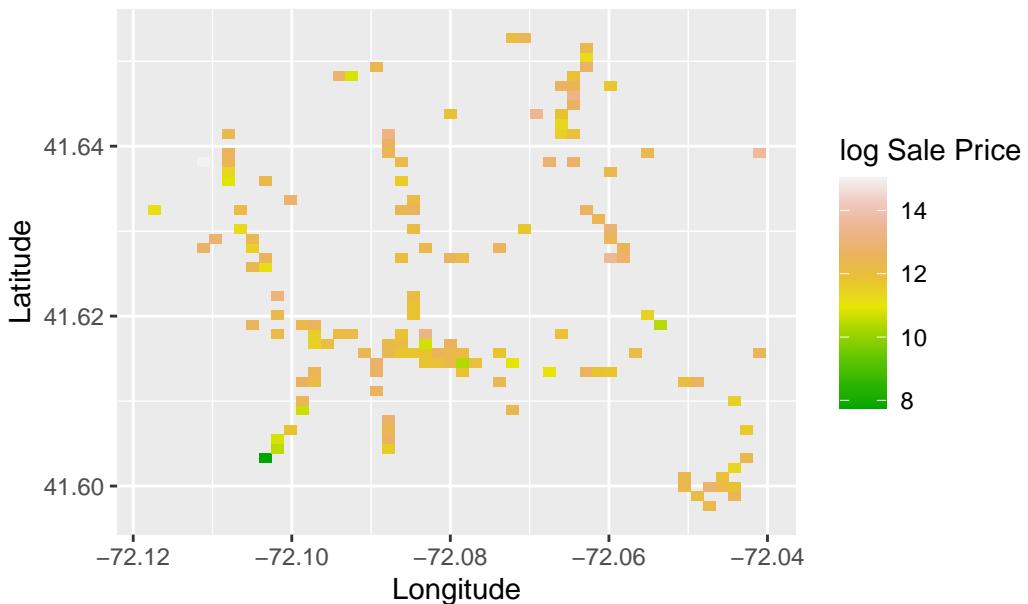
# sprague sale price heatmap
sprague <- loc_split[loc_split$Town == "Sprague",]

sprague_filtered <- loc_split[
  loc_split$Town == "Sprague" &
  loc_split$Latitude >= 41.55 & loc_split$Latitude <= 41.66 &
  loc_split$Longitude >= -73.23 & loc_split$Longitude <= -72.04,
]

ggplot(sprague_filtered, aes(x=Longitude, y=Latitude, z=log(Sale.Amount))) +
  stat_summary_2d(fun = median, bins = 50) +
  scale_fill_gradientn(colors=terrain.colors(10), name="log Sale Price") +
  labs(title="Density of Sale Price in Sprague")

```

Density of Sale Price in Sprague



```
nrow(sprague)
```

```
[1] 276
```

```
unique(loc_split$Town)
```

[1]	"Ansonia"	"Avon"	"Bridgeport"
[4]	"Bristol"	"Burlington"	"Cheshire"
[7]	"Colebrook"	"Coventry"	"East Haddam"
[10]	"East Haven"	"East Hampton"	"Easton"
[13]	"Fairfield"	"Glastonbury"	"Greenwich"
[16]	"Guilford"	"Hamden"	"Groton"
[19]	"Kent"	"Litchfield"	"Hartford"
[22]	"Middletown"	"New Britain"	"New Haven"
[25]	"Newtown"	"North Stonington"	"Norwalk"
[28]	"Norwich"	"Old Saybrook"	"Plainfield"
[31]	"Portland"	"Ridgefield"	"Simsbury"
[34]	"Somers"	"South Windsor"	"Stamford"
[37]	"Salem"	"Sterling"	"Stratford"
[40]	"Torrington"	"Union"	"Waterbury"
[43]	"Watertown"	"New London"	"Westport"
[46]	"Wethersfield"	"Windsor"	"Windsor Locks"
[49]	"Thompson"	"Redding"	"Southington"
[52]	"Newington"	"Plainville"	"Bloomfield"
[55]	"Madison"	"Hartland"	"Barkhamsted"
[58]	"Darien"	"Goshen"	"Bridgewater"
[61]	"Canton"	"Ledyard"	"Mansfield"
[64]	"Farmington"	"Danbury"	"East Granby"
[67]	"Ellington"	"Monroe"	"Branford"
[70]	"Bethany"	"New Canaan"	"Bethel"
[73]	"Berlin"	"Canterbury"	"Haddam"
[76]	"Cromwell"	"Essex"	"Granby"
[79]	"Killingly"	"Harwinton"	"Marlborough"
[82]	"Derby"	"Brooklyn"	"Lyme"
[85]	"Chester"	"Naugatuck"	"Clinton"
[88]	"East Windsor"	"Bethlehem"	"Bolton"
[91]	"New Fairfield"	"Chaplin"	"Deep River"
[94]	"Middlefield"	"Lebanon"	"Meriden"
[97]	"Tolland"	"Hampton"	"Durham"
[100]	"Bozrah"	"Eastford"	"Franklin"
[103]	"Morris"	"Canaan"	"Enfield"
[106]	"Brookfield"	"East Lyme"	"Manchester"
[109]	"East Hartford"	"Griswold"	"Columbia"
[112]	"Colchester"	"Beacon Falls"	"Hebron"
[115]	"Cornwall"	"Ashford"	"Killingworth"
[118]	"Lisbon"	"Andover"	"North Branford"

```

[121] "Shelton"          "Milford"           "Southbury"
[124] "Old Lyme"          "Middlebury"        "Stonington"
[127] "North Haven"       "Orange"            "Rocky Hill"
[130] "Montville"         "North Canaan"      "Plymouth"
[133] "Putnam"            "Sherman"           "Scotland"
[136] "New Hartford"      "Sharon"             "Roxbury"
[139] "Sprague"            "Preston"            "Norfolk"
[142] "Woodbridge"         "West Hartford"     "Wilton"
[145] "Waterford"          "Suffield"           "Thomaston"
[148] "Trumbull"           "Westbrook"          "Vernon"
[151] "Warren"              "Windham"            "Woodbury"
[154] "Weston"               "Washington"         "Woodstock"
[157] "Winchester"          "Wolcott"            "Willington"
[160] "Wallingford"         "Oxford"             "Stafford"
[163] "New Milford"         "Voluntown"          "Seymour"
[166] "Pomfret"              "Prospect"            "Salisbury"
[169] "West Haven"

```

```
head(loc_split[loc_split$Town=='Sprague',])
```

	Town	Assessed.Value	Sale.Amount	Latitude	Longitude
16452	Sprague	99730	215000	41.64954	-72.08979
16802	Sprague	134510	315000	41.61125	-72.08935
17447	Sprague	110290	125000	41.64362	-72.06527
17566	Sprague	110200	60000	41.61621	-72.09655
18162	Sprague	94270	215000	41.65115	-72.06246
18328	Sprague	96180	159900	41.61739	-72.09225

```
str(loc_split)
```

```
'data.frame': 341229 obs. of 5 variables:
 $ Town      : chr  "Ansonia" "Avon"  "Avon"  "Bridgeport" ...
 $ Assessed.Value: num  133000 179990 528490 110610 8400 ...
 $ Sale.Amount : num  248400 362500 775000 50000 38500 ...
 $ Latitude   : num  41.4 41.8 41.8 41.2 41.7 ...
 $ Longitude  : num  -73.1 -72.9 -72.9 -73.2 -72.9 ...
```

## **5 Conclusion**

### **References**

2025, Data Commons. n.d. "Place Rankings - Data Commons." *Data Commons*.  
[https://datacommons.org/ranking/Median\\_Income\\_Household/CensusCountyDivision/geoId/09?h=geoId%2F0915021860&unit=%24](https://datacommons.org/ranking/Median_Income_Household/CensusCountyDivision/geoId/09?h=geoId%2F0915021860&unit=%24).