Codebook: City-Defined Neighborhood Boundaries

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Ben Shair Tyler Simko David Sutton

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Table of contents

Abilene, TX . . . 6
Akron, OH . . . 7
Albuquerque, NM . . . 8
Alexandria, VA . . . 8
Anchorage, AK . . . 9
Ann Arbor, MI . . . 10
Arlington, VA . . . 10
Atlanta, GA . . . 11
Augusta, GA . . . 11
Aurora, CO . . . 12
Aurora, IL . . . 12
Austin, TX . . . 13
Baltimore, MD . . . 13
Baton Rouge, LA . . . 14
Bellevue, WA . . . 15
Berkeley, CA . . . 15
Billings, MT . . . 16
Birmingham, AL . . . 16
Boise, ID . . . 17
Boston, MA . . . 18
Boulder, CO . . . 18
Bridgeport, CT . . . 19
Buffalo, NY . . . 20
Cambridge, MA . . . 20
Carlsbad, CA . . . 21

Carrollton, TX . . . 22
Cedar Rapids, IA . . . 22
Centennial, CO . . . 23
Charleston, SC . . . 23
Charlotte, NC . . . 24
Chattanooga, TN . . . 25
Chesapeake, VA . . . 25
Chicago, IL . . . 26
Chula Vista, CA . . . 27
Cincinnati, OH . . . 27
Clearwater, FL . . . 28
Cleveland, OH . . . 29
College Station, TX . . . 29
Colorado Springs, CO . . . 30
Columbia, MD . . . 31
Columbia, MO . . . 31
Columbia, SC . . . 32
Columbus, OH . . . 33
Concord, CA . . . 33
Concord, NC . . . 34
Coral Springs, FL . . . 35
Dallas, TX . . . 35
Davie, FL . . . 36
Dayton, OH . . . 37
Dearborn, MI . . . 37
Denver, CO . . . 38
Des Moines, IA . . . 38
Detroit, MI . . . 39
Downey, CA . . . 40
Durham, NC . . . 40
Elgin, IL . . . 41
Elk Grove, CA . . . 42
El Paso, TX . . . 42
Eugene, OR . . . 43
Evansville, IN . . . 43
Everett, WA . . . 44
Fargo, ND . . . 45
Fort Collins, CO . . . 45
Fort Lauderdale, FL . . . 46
Fort Wayne, IN . . . 47
Fort Worth, TX . . . 47
Fremont, CA . . . 48
Fresno, CA . . . 49

Gainesville, FL . . . 49
Garden Grove, CA . . . 50
Garland, TX . . . 51
Glendale, AZ . . . 51
Grand Rapids, MI . . . 52
Green Bay, WI . . . 53
Gresham, OR . . . 53
Hampton, VA . . . 54
Hartford, CT . . . 55
Hayward, CA . . . 55
Hollywood, FL . . . 56
Honolulu, HI . . . 57
Houston, TX . . . 57
Huntsville, AL . . . 58
Independence, MO . . . 59
Indianapolis, IN . . . 59
Inglewood, CA . . . 60
Irvine, CA . . . 61
Irving, TX . . . 61
Jacksonville, FL . . . 62
Jersey City, NJ . . . 63
Joliet, IL . . . 63
Kansas City, KS . . . 64
Kansas City, MO . . . 64
Kent, WA . . . 65
Lakeland, FL . . . 65
Lakewood, CO . . . 66
Lansing, MI . . . 67
Laredo, TX . . . 67
Las Vegas, NV . . . 68
Lehigh Acres, FL . . . 69
Lexington, KY . . . 69
Lincoln, NE . . . 70
Little Rock, AR . . . 71
Long Beach, CA . . . 71
Los Angeles, CA . . . 72
Louisville, KY . . . 73
Lowell, MA . . . 73
Macon, GA . . . 74
Madison, WI . . . 75
Manchester, NH . . . 75
Memphis, TN . . . 76
Mesquite, TX . . . 77

Metairie, LA . . . 77
Miami, FL . . . 78
Miami Gardens, FL . . . 79
Milwaukee, WI . . . 79
Minneapolis, MN . . . 80
Miramar, FL . . . 81
Nashville, TN . . . 81
Newark, NJ . . . 81
New Haven, CT . . . 82
New Orleans, LA . . . 83
Newport News, VA . . . 83
New York, NY . . . 84
Norfolk, VA . . . 85
Norman, OK . . . 85
North Charleston, SC . . . 86
Oakland, CA . . . 87
Oceanside, CA . . . 87
Oklahoma City, OK . . . 88
Omaha, NE . . . 89
Orlando, FL . . . 89
Overland Park, KS . . . 90
Oxnard, CA . . . 90
Pasadena, CA . . . 91
Pearland, TX . . . 92
Pembroke Pines, FL . . . 92
Peoria, IL . . . 93
Philadelphia, PA . . . 93
Phoenix, AZ . . . 94
Pittsburgh, PA . . . 95
Pompano Beach, FL . . . 95
Portland, OR . . . 96
Port St Lucie, FL . . . 97
Providence, RI . . . 97
Provo, UT . . . 98
Pueblo, CO . . . 99
Quincy, MA . . . 99
Raleigh, NC . . . 100
Rancho Cucamonga, CA . . . 101
Renton, WA . . . 101
Richmond, VA . . . 102
Rio Rancho, NM . . . 103
Riverside, CA . . . 103
Rochester, MN . . . 104

Rochester, NY . . . 105
Rockford, IL . . . 105
Roseville, CA . . . 106
Round Rock, TX . . . 107
Sacramento, CA . . . 107
Salem, OR . . . 108
Salt Lake City, UT . . . 109
San Antonio, TX . . . 109
San Bernardino, CA . . . 110
San Diego, CA . . . 111
Sandy Springs, GA . . . 111
San Francisco, CA . . . 112
San Jose, CA . . . 112
San Mateo, CA . . . 113
Santa Ana, CA . . . 114
Santa Rosa, CA . . . 114
Savannah, GA . . . 115
Seattle, WA . . . 116
Shreveport, LA . . . 116
Simi Valley, CA . . . 117
Sioux Falls, SD . . . 118
South Bend, IN . . . 118
Spokane, WA . . . 119
Springfield, MA . . . 120
Springfield, MO . . . 120
St Louis, MO . . . 121
Stockton, CA . . . 122
St Paul, MN . . . 122
St Petersburg, FL . . . 123
Syracuse, NY . . . 124
Tacoma, WA . . . 124
Tallahassee, FL . . . 125
Tampa, FL . . . 126
Temecula, CA . . . 126
Tempe, AZ . . . 127
Toledo, OH . . . 128
Topeka, KS . . . 128
Tucson, AZ . . . 129
Tulsa, OK . . . 129
Vancouver, WA . . . 130
Ventura, CA . . . 130
Victorville, CA . . . 131
Waco, TX . . . 132

Washington, DC . . . 132
Waterbury, CT . . . 133
West Covina, CA . . . 134
West Palm Beach, FL . . . 134
West Valley City, UT . . . 135
Wichita Falls, TX . . . 136
Wichita, KS . . . 136
Wilmington, NC . . . 137
Woodlands Township, TX . . . 138
Worcester, MA . . . 138

For each city below, we list details on the raw data, our cleaned data, and the specific, custom procedures we took for each city (if any). For every shapefile, we:

1. Removed third dimension geography (if any).
2. Run `st_make_valid()` from the `sf` package to ensure connected, valid geometric shapes. Details on this procedure can be found here.
3. Drop all columns except the first character column (which typically represents neighborhood names, though not always) and a geometry column containing neighborhood shapes.

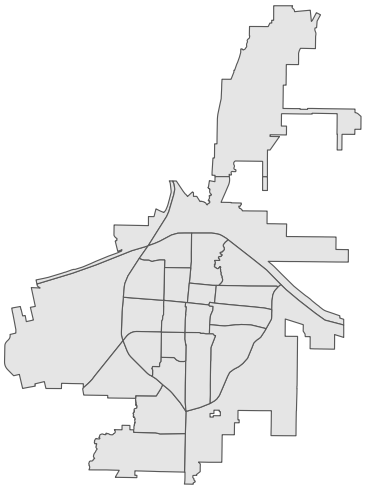
Further custom procedures are described in each city section below. Note we exclude HOAs from this document, since these are often not defined by the city or residents. Our full data release includes HOAs.

Abilene, TX

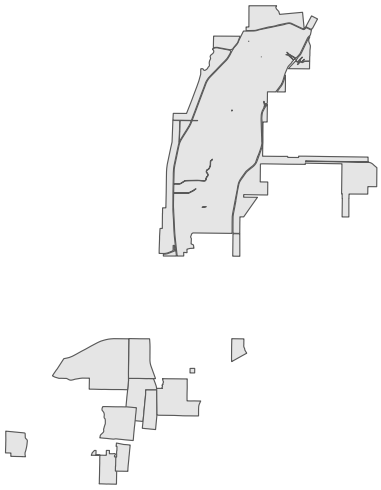
Custom city edits: None.

Abilene, TX

Neighborhoods: Cleaned



NHAs: Cleaned

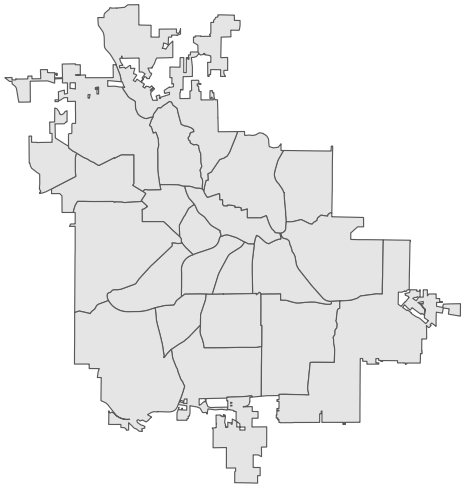


Akron, OH

Custom city edits: None.

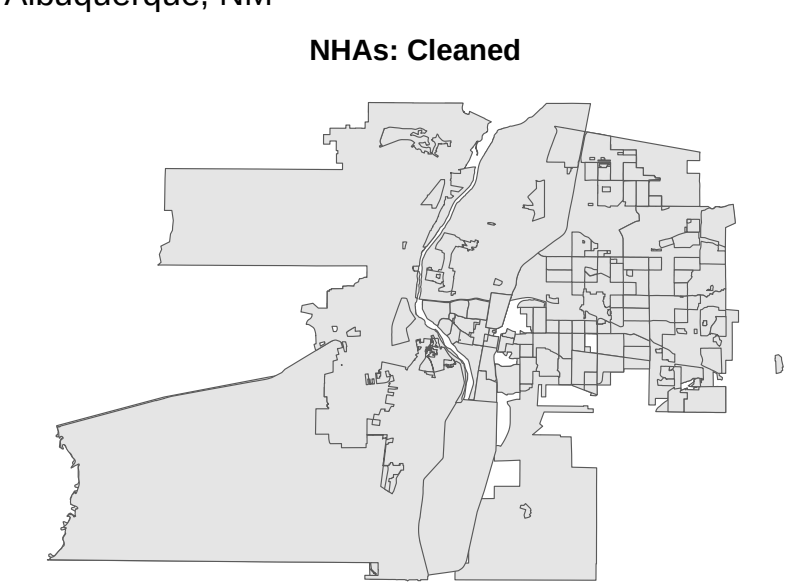
Akron, OH

Neighborhoods: Cleaned



Albuquerque, NM

Custom city edits: None.

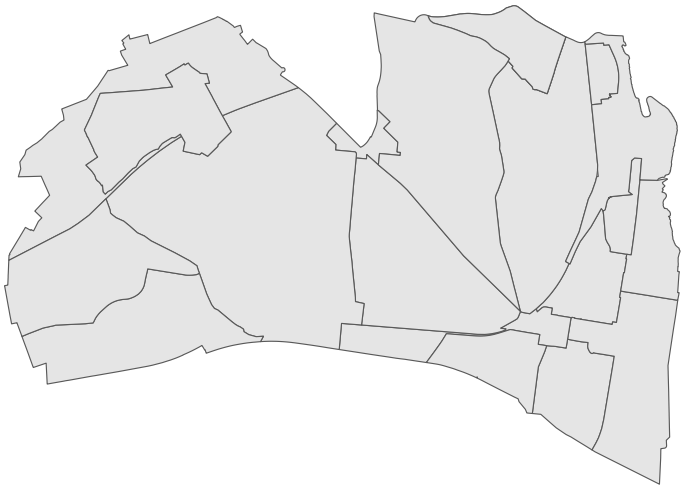


Alexandria, VA

Custom city edits: None.

Alexandria, VA

Neighborhoods: Cleaned

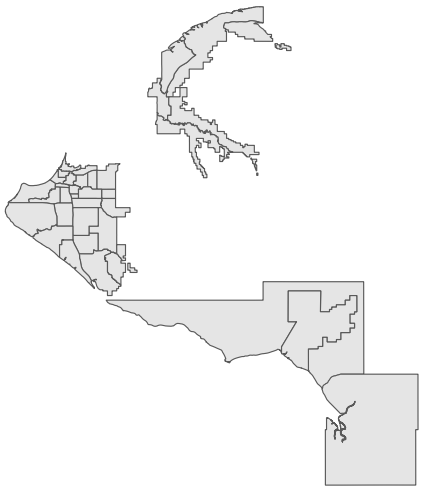


Anchorage, AK

Custom city edits: None.

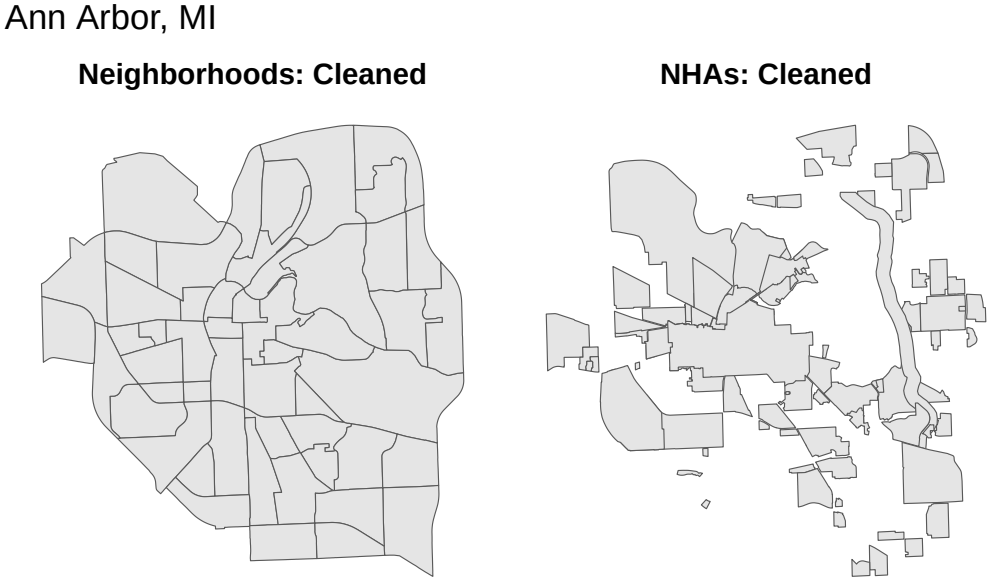
Anchorage, AK

Neighborhoods: Cleaned



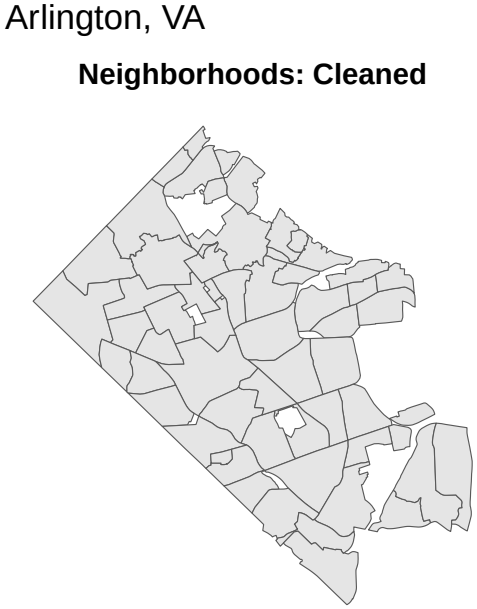
Ann Arbor, MI

Custom city edits: None.



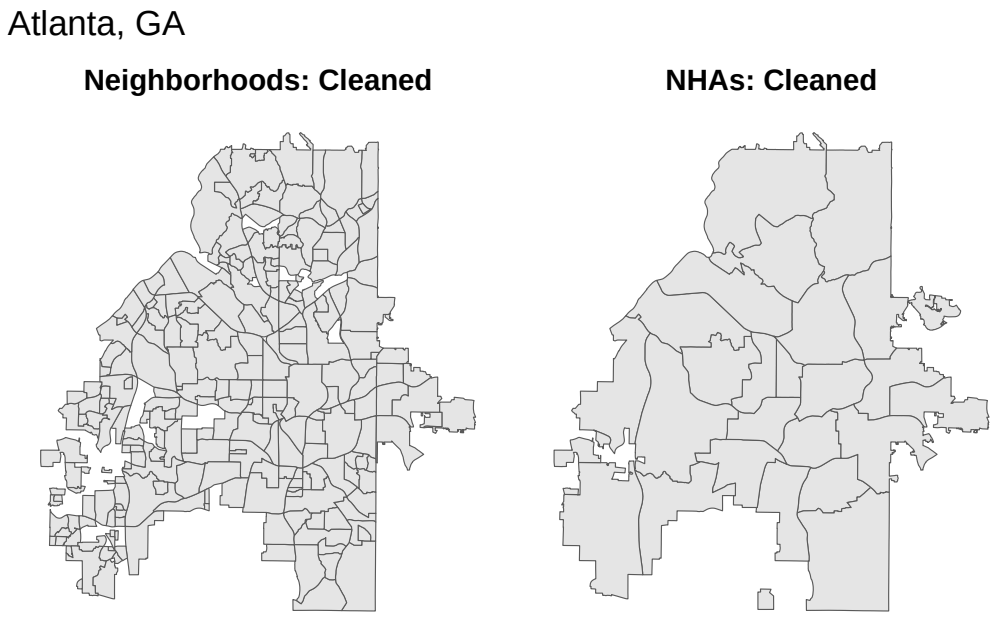
Arlington, VA

Custom city edits: None.



Atlanta, GA

Custom city edits: None.



Augusta, GA

Custom city edits: None.

Augusta, GA

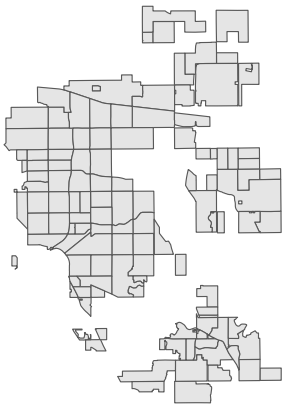
Neighborhoods: Cleaned

Aurora, CO

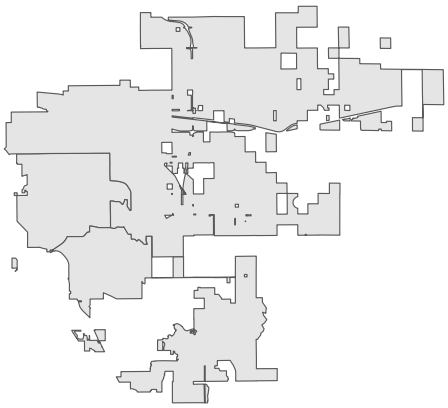
Custom city edits: None.

Aurora, CO

Neighborhoods: Cleaned



NHAs: Cleaned

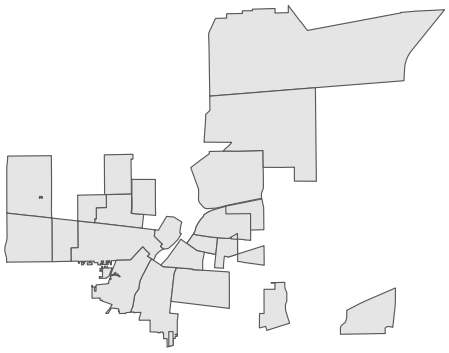


Aurora, IL

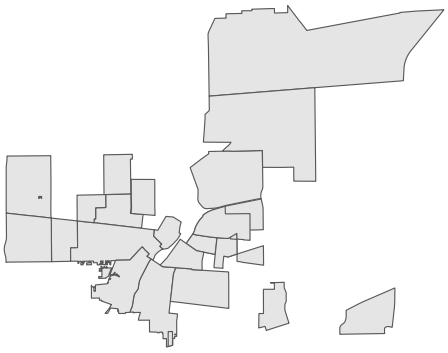
Custom city edits: None.

Aurora, IL

Neighborhoods: Cleaned



NHAs: Cleaned



Austin, TX

Custom city edits: None.

Austin, TX

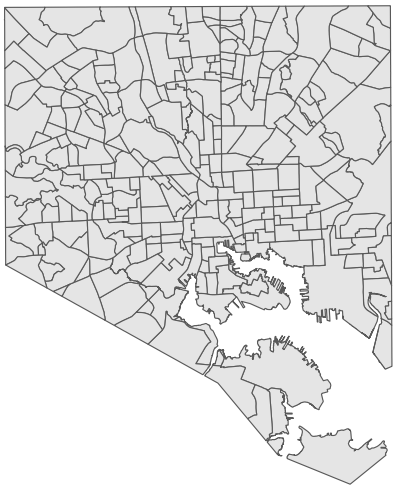
Neighborhoods: Cleaned

Baltimore, MD

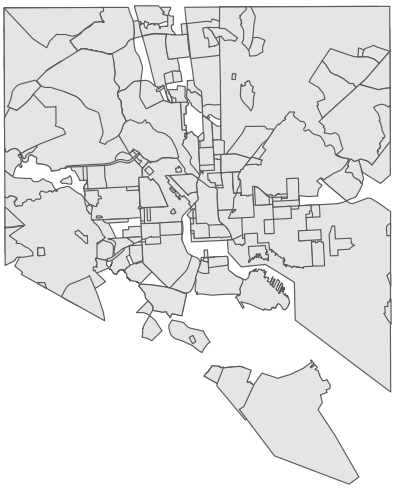
Custom city edits: None.

Baltimore, MD

Neighborhoods: Cleaned



NHAs: Cleaned

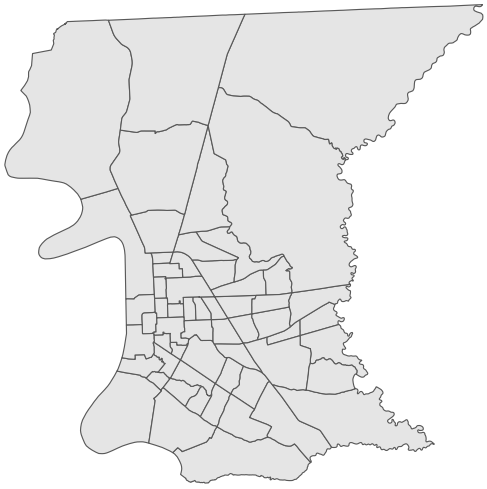


Baton Rouge, LA

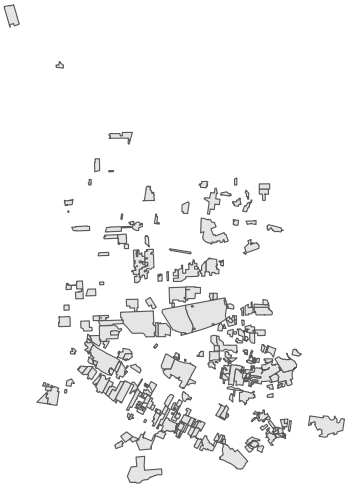
Custom city edits: None.

Baton Rouge, LA

Neighborhoods: Cleaned

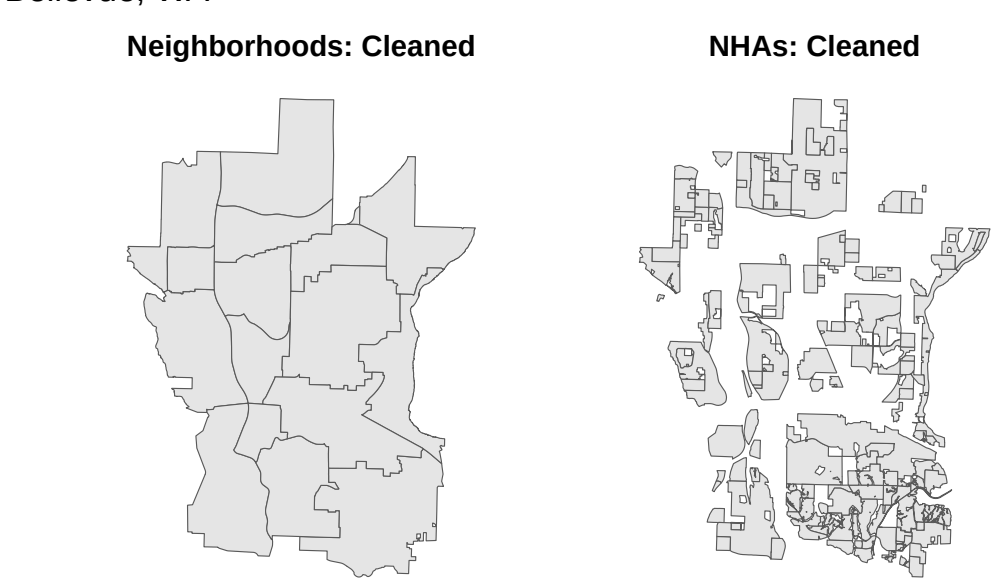


NHAs: Cleaned



Bellevue, WA

Custom city edits: None.

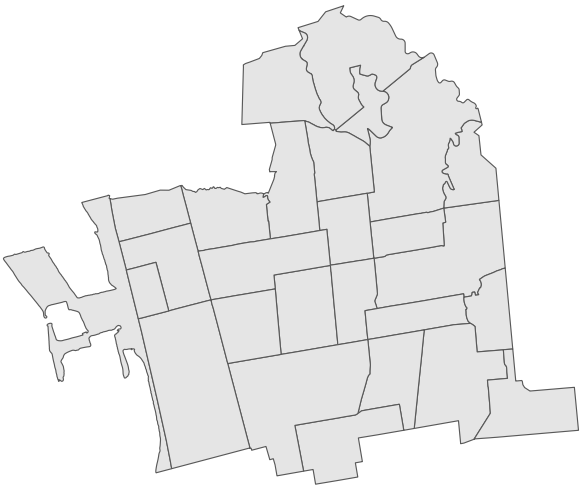


Berkeley, CA

Custom city edits: None.

Berkeley, CA

Neighborhoods: Cleaned

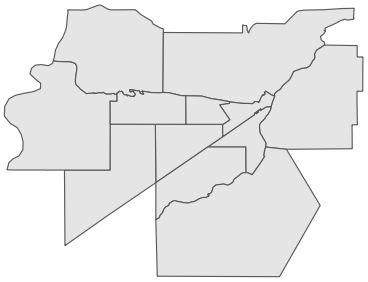


Billings, MT

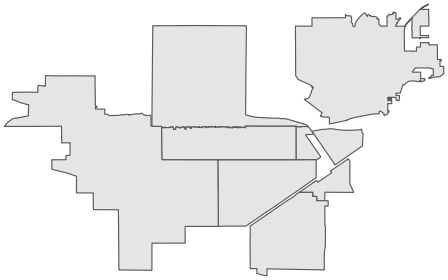
Custom city edits: None.

Billings, MT

Neighborhoods: Cleaned



NHAs: Cleaned

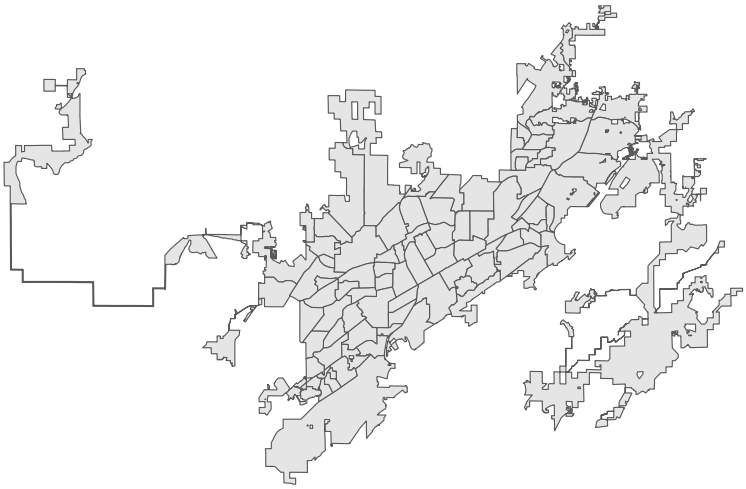


Birmingham, AL

Custom city edits: None.

Birmingham, AL

Neighborhoods: Cleaned

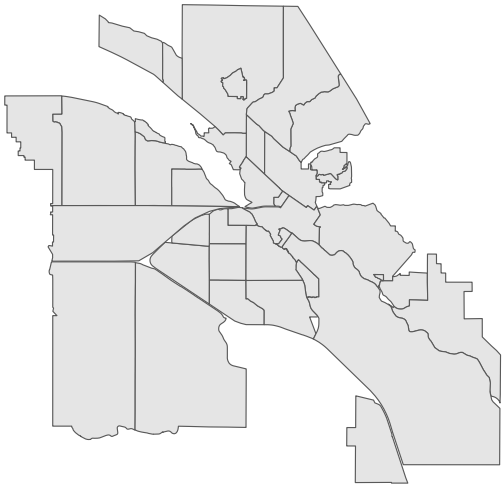


Boise, ID

Custom city edits: None.

Boise, ID

NHAs: Cleaned

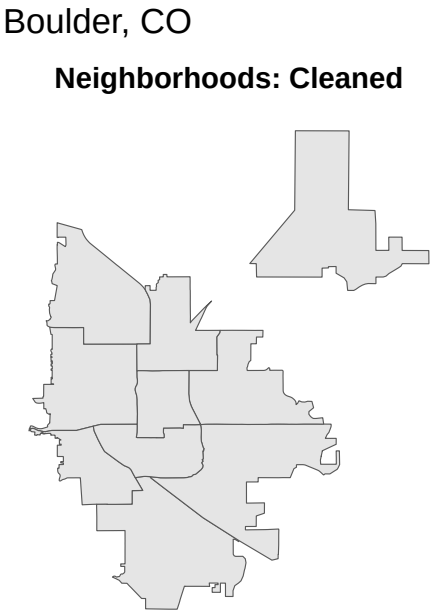


Boston, MA

Custom city edits: None.

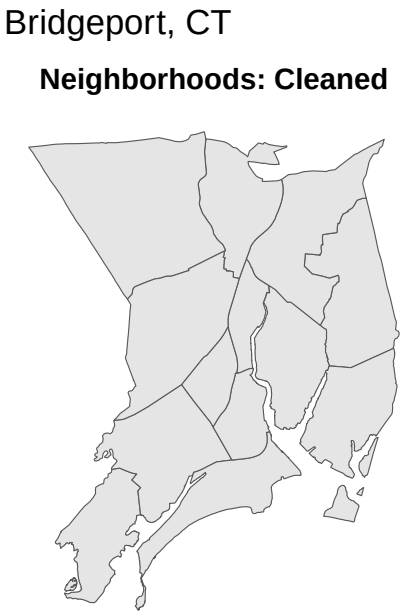
Boulder, CO

Custom city edits: None.



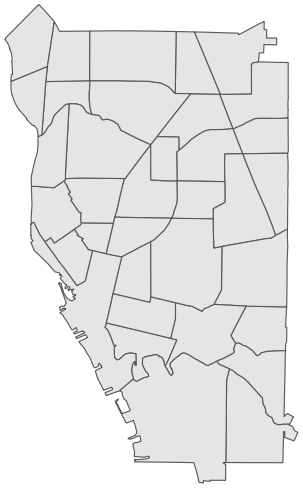
Bridgeport, CT

Custom city edits: None.



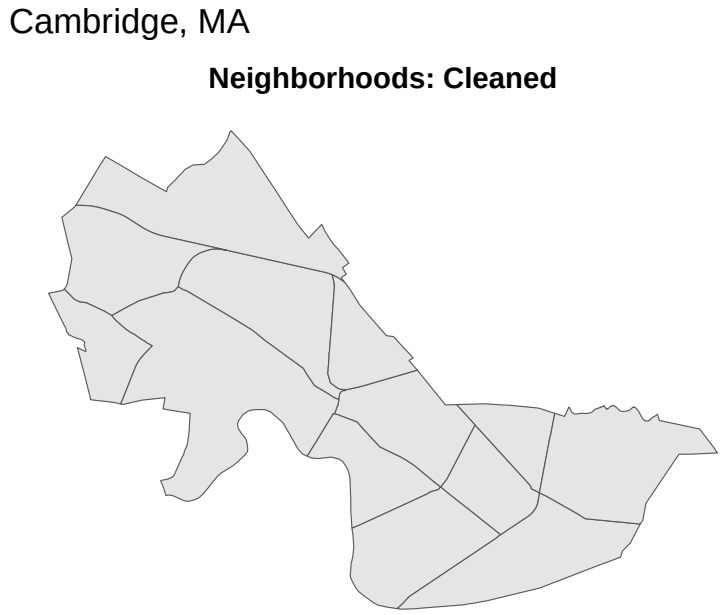
Buffalo, NY

Custom city edits: None.



Cambridge, MA

Custom city edits: None.

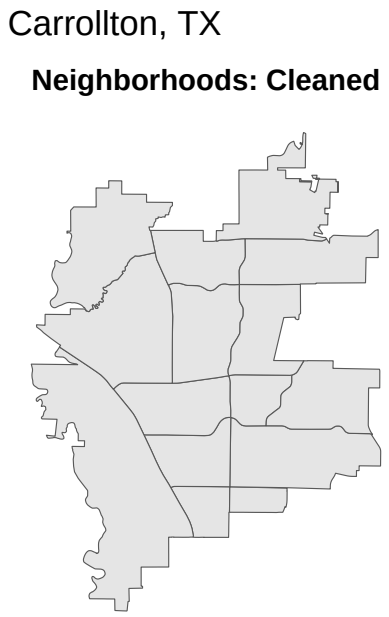


Carlsbad, CA

Custom city edits: None.

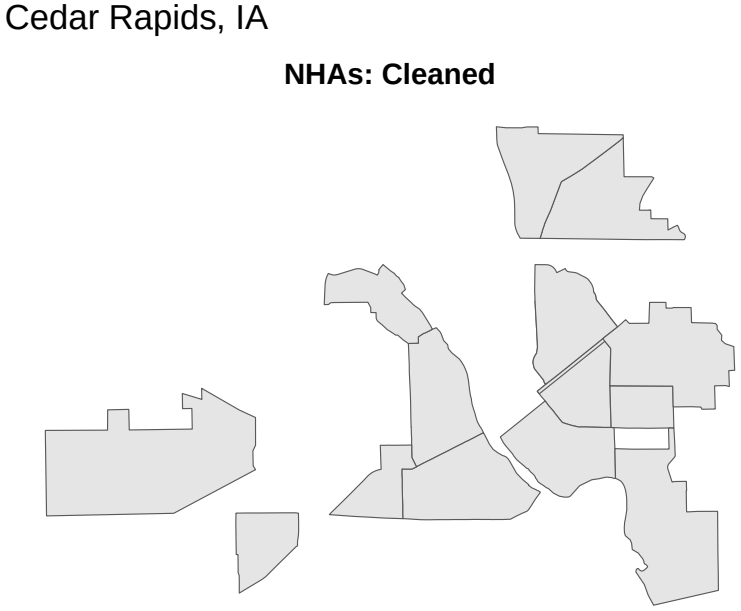
Carrollton, TX

Custom city edits: None.



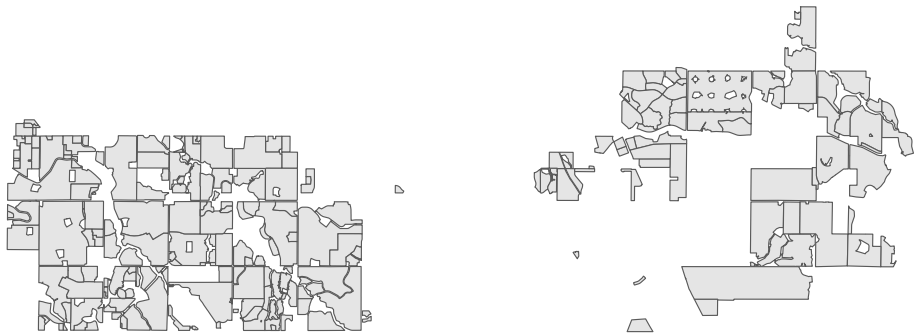
Cedar Rapids, IA

Custom city edits: None.



Centennial, CO

Custom city edits: None.

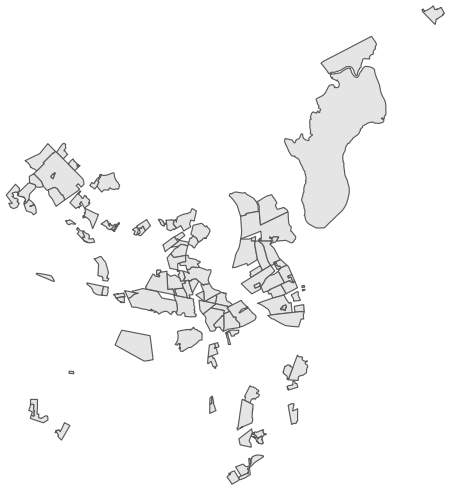


Charleston, SC

Custom city edits: None.

Charleston, SC

NHAs: Cleaned



Charlotte, NC

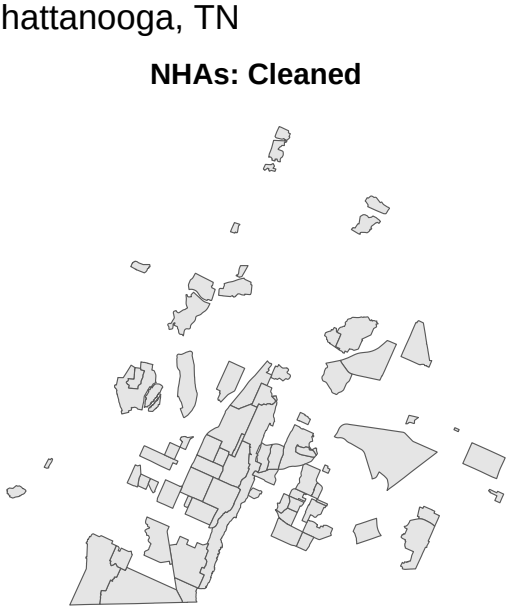
Custom city edits: None.

Charlotte, NC

Neighborhoods: Cleaned

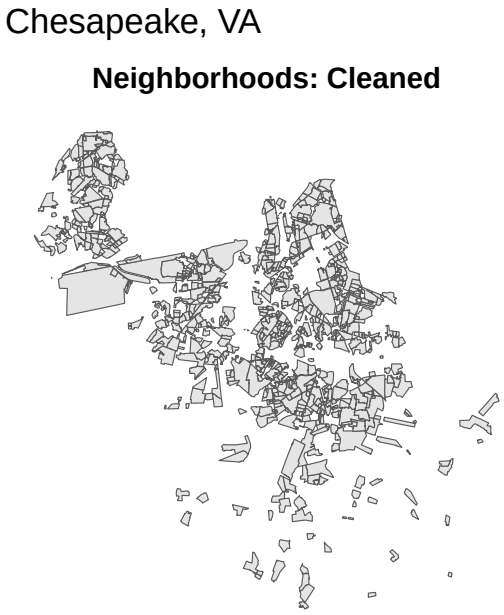
Chattanooga, TN

Custom city edits: None.



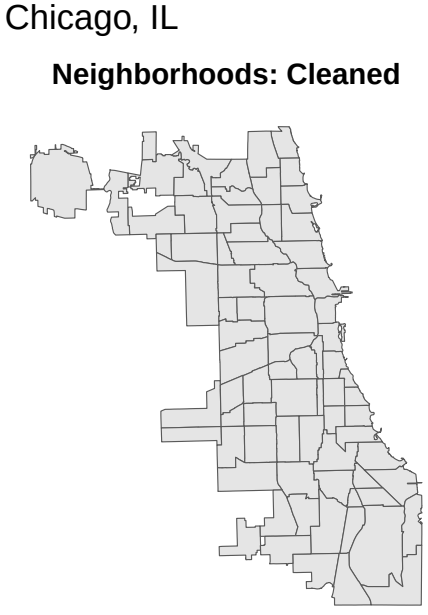
Chesapeake, VA

Custom city edits: Chesapeake, VA: raw neighborhoods file includes a layer for no neighborhood assigned. We remove that layer.



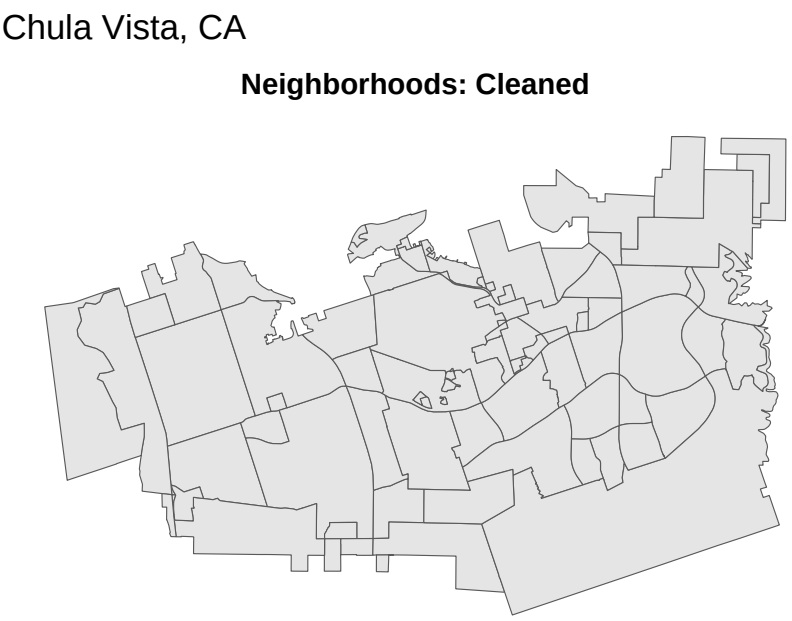
Chicago, IL

Custom city edits: None.



Chula Vista, CA

Custom city edits: None.



Cincinnati, OH

Custom city edits: None.

Cincinnati, OH

Neighborhoods: Cleaned

Clearwater, FL

Custom city edits: None.

Clearwater, FL

NHAs: Cleaned

Cleveland, OH

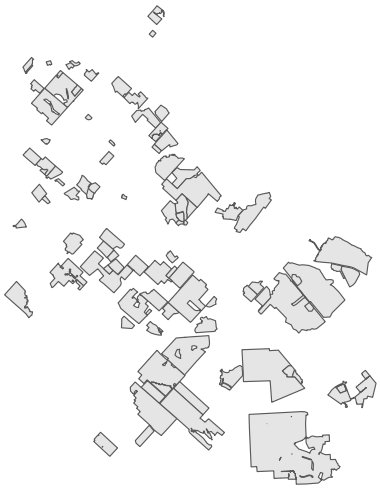
Custom city edits: None.

College Station, TX

Custom city edits: None.

College Station, TX

NHAs: Cleaned

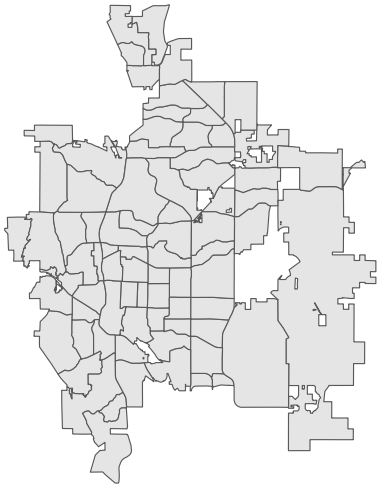


Colorado Springs, CO

Custom city edits: None.

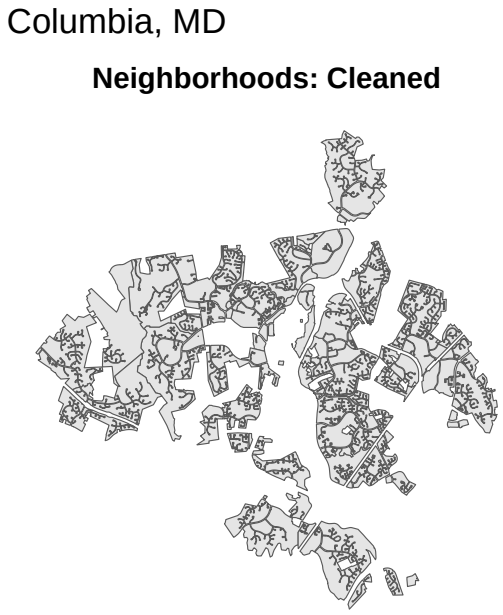
Colorado Springs, CO

Neighborhoods: Cleaned



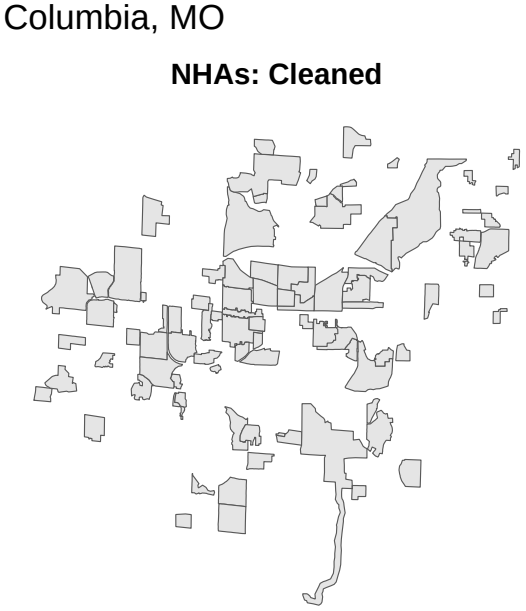
Columbia, MD

Custom city edits: Columbia, MD: raw neighborhoods file listed by village. Aggregating units into neighborhoods.



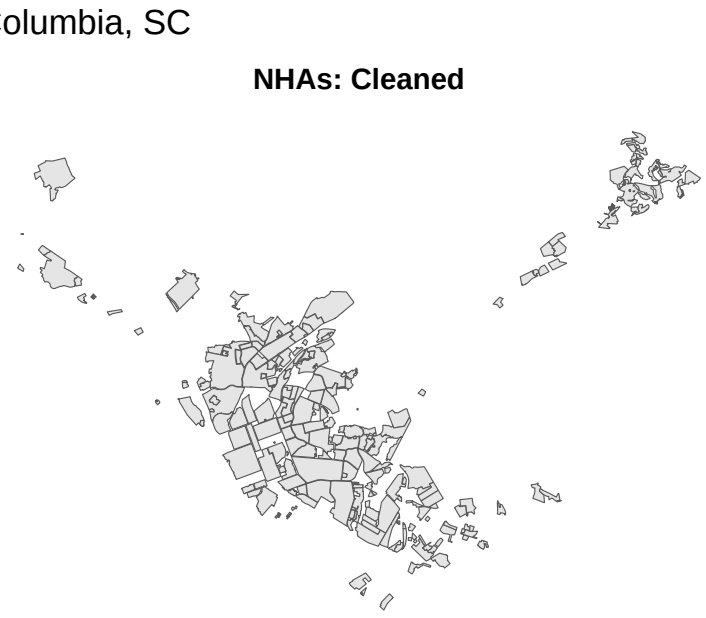
Columbia, MO

Custom city edits: None.



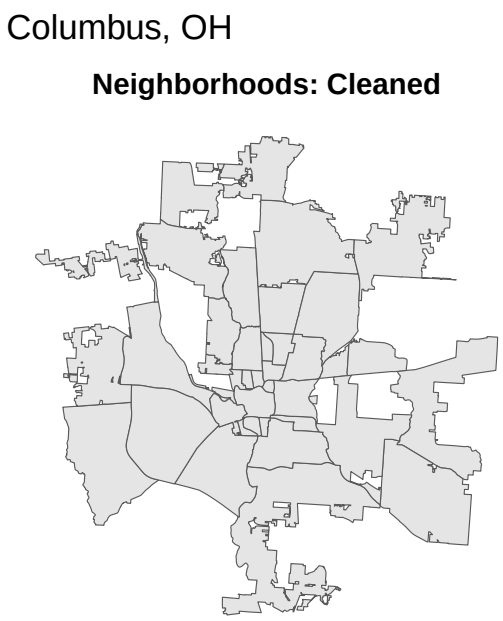
Columbia, SC

Custom city edits: None.



Columbus, OH

Custom city edits: None.



Concord, CA

Custom city edits: None.

Concord, CA

Neighborhoods: Cleaned

Concord, NC

Custom city edits: None.

Concord, NC

Neighborhoods: Cleaned

Coral Springs, FL

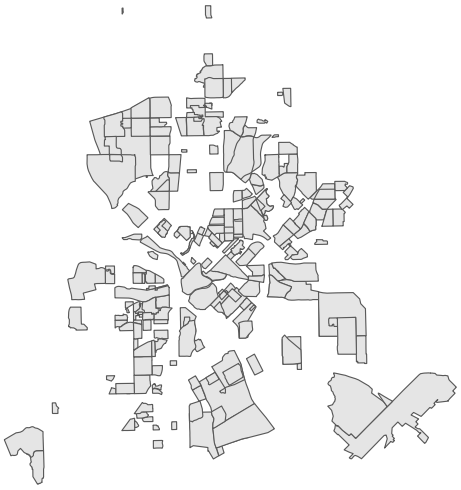
Custom city edits: None.

Dallas, TX

Custom city edits: None.

Dallas, TX

NHAs: Cleaned



Davie, FL

Custom city edits: None.

Davie, FL

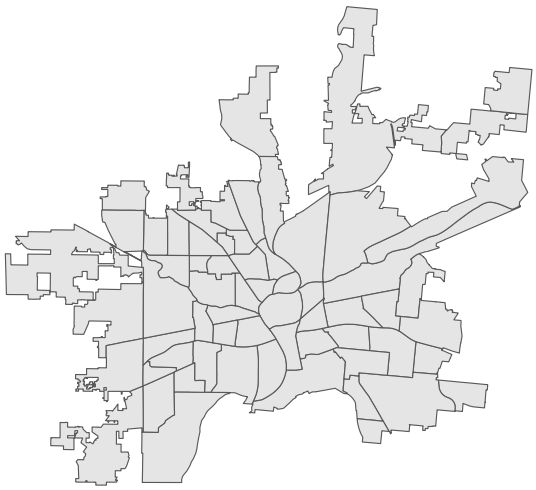
Neighborhoods: Cleaned

Dayton, OH

Custom city edits: Dayton, OH: raw neighborhoods file contains many areas and townships outside the city. We remove those areas.

Dayton, OH

Neighborhoods: Cleaned

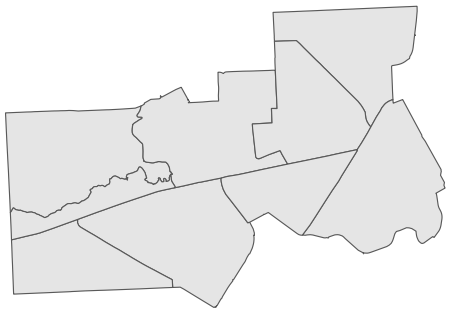


Dearborn, MI

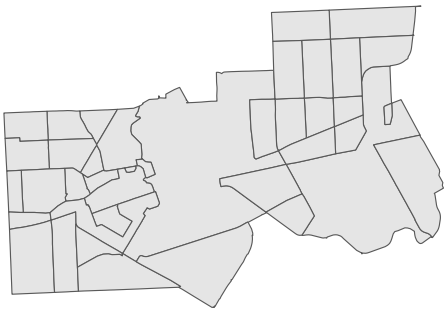
Custom city edits: None.

Dearborn, MI

Neighborhoods: Cleaned

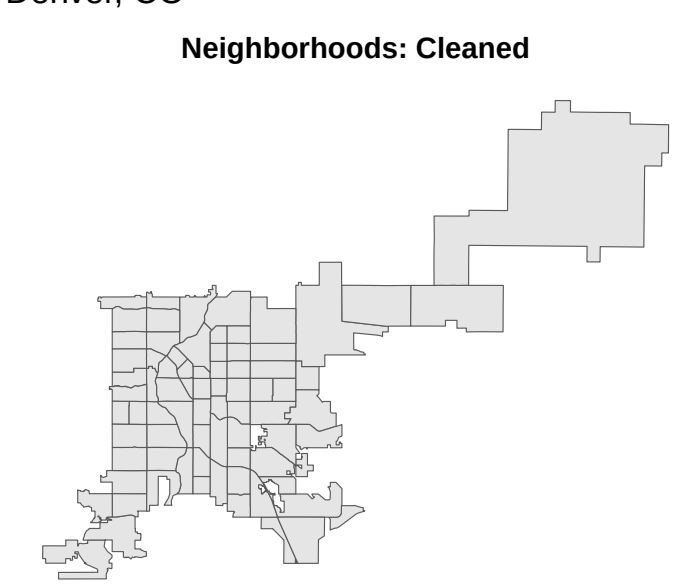


NHAs: Cleaned



Denver, CO

Custom city edits: None.

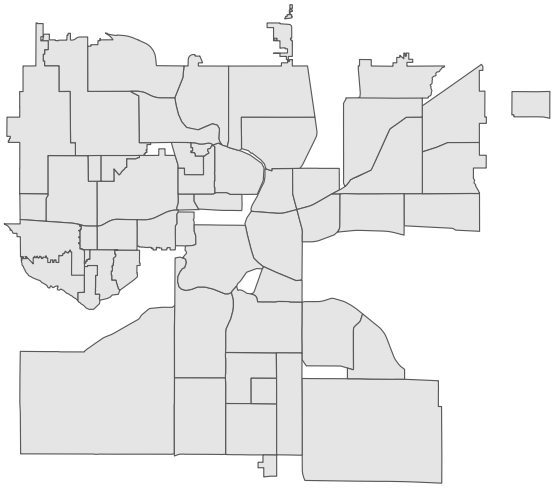


Des Moines, IA

Custom city edits: None.

Des Moines, IA

NHAs: Cleaned



Detroit, MI

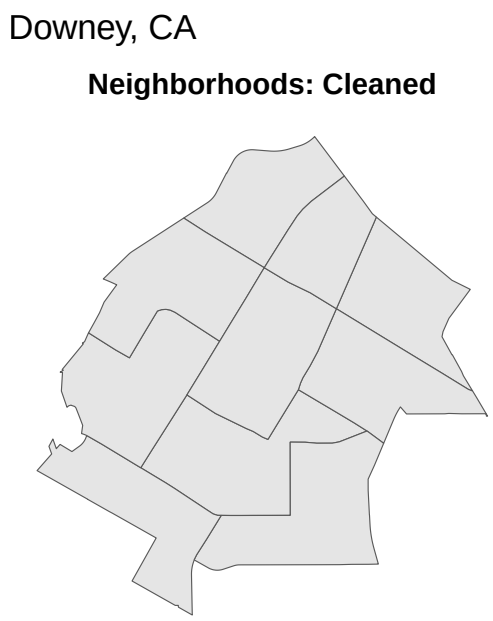
Custom city edits: None.

Detroit, MI

Neighborhoods: Cleaned

Downey, CA

Custom city edits: None.

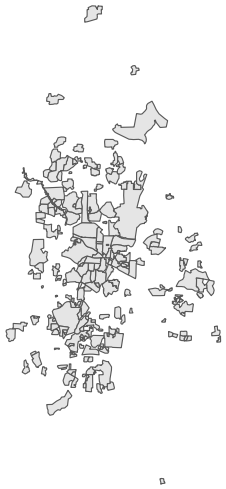


Durham, NC

Custom city edits: None.

Durham, NC

Neighborhoods: Cleaned

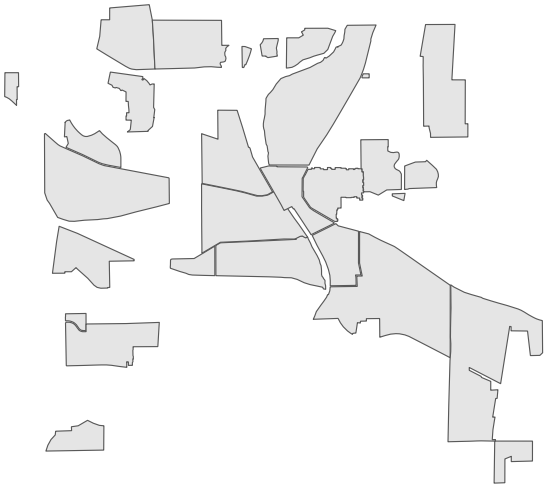


Elgin, IL

Custom city edits: None.

Elgin, IL

NHAs: Cleaned

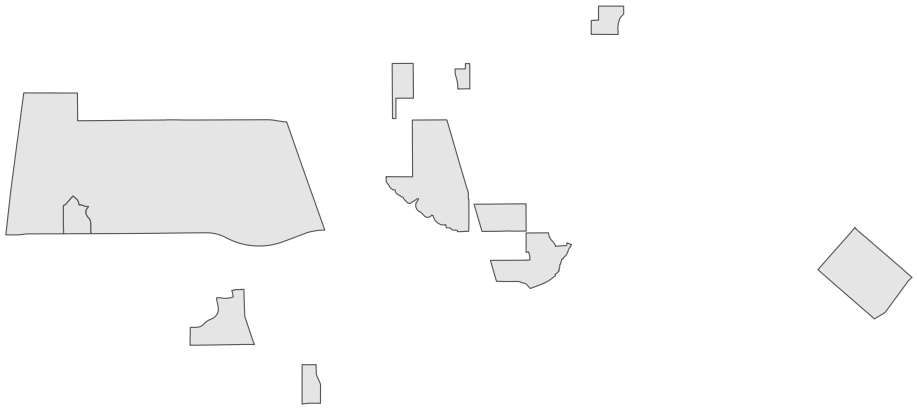


Elk Grove, CA

Custom city edits: None.

Elk Grove, CA

NHAs: Cleaned

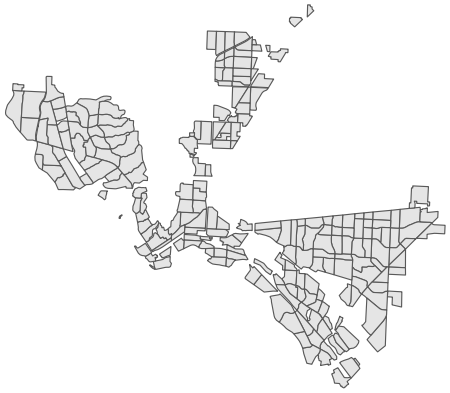


El Paso, TX

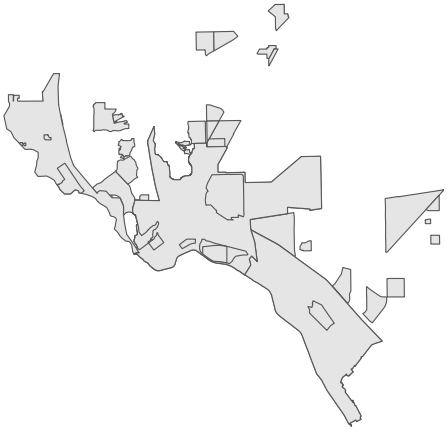
Custom city edits: None.

El Paso, TX

Neighborhoods: Cleaned



NHAs: Cleaned



Eugene, OR

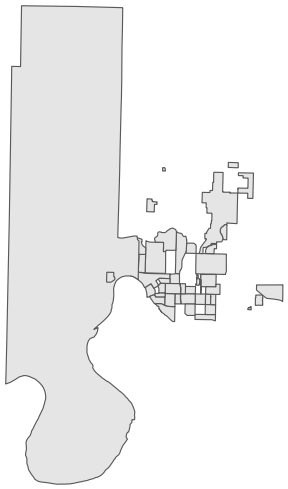
Custom city edits: None.

Evansville, IN

Custom city edits: None.

Evansville, IN

NHAs: Cleaned

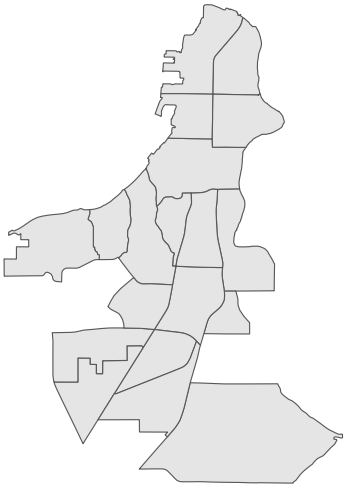


Everett, WA

Custom city edits: None.

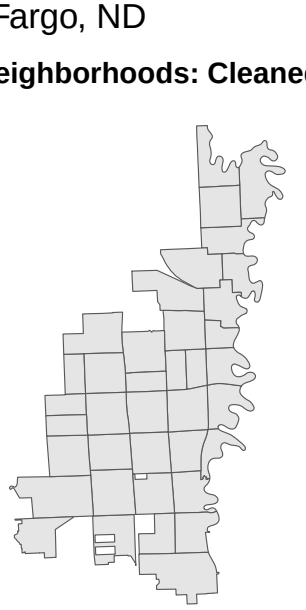
Everett, WA

Neighborhoods: Cleaned



Fargo, ND

Custom city edits: None.

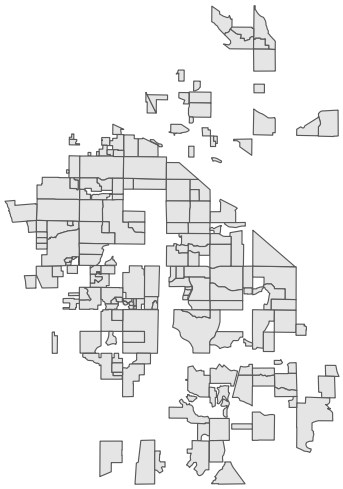


Fort Collins, CO

Custom city edits: None.

Fort Collins, CO

Neighborhoods: Cleaned

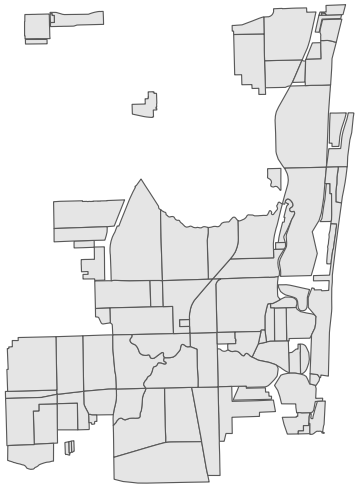


Fort Lauderdale, FL

Custom city edits: None.

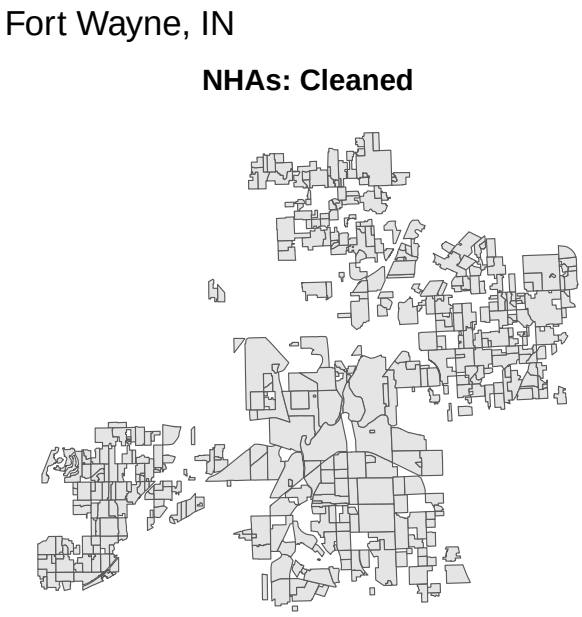
Fort Lauderdale, FL

Neighborhoods: Cleaned



Fort Wayne, IN

Custom city edits: None.

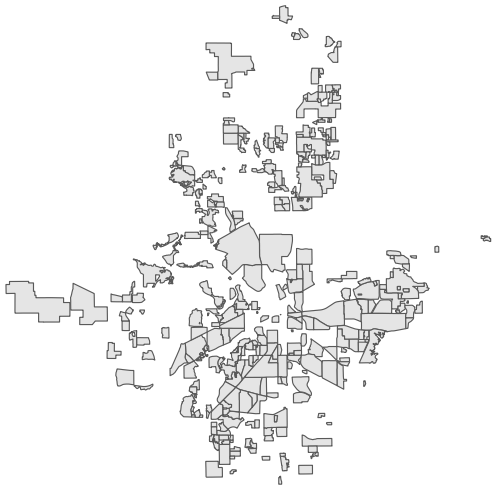


Fort Worth, TX

Custom city edits: None.

Fort Worth, TX

NHAs: Cleaned

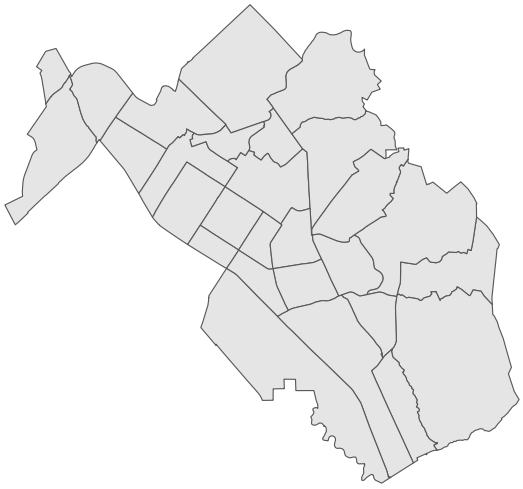


Fremont, CA

Custom city edits: None.

Fremont, CA

Neighborhoods: Cleaned



Fresno, CA

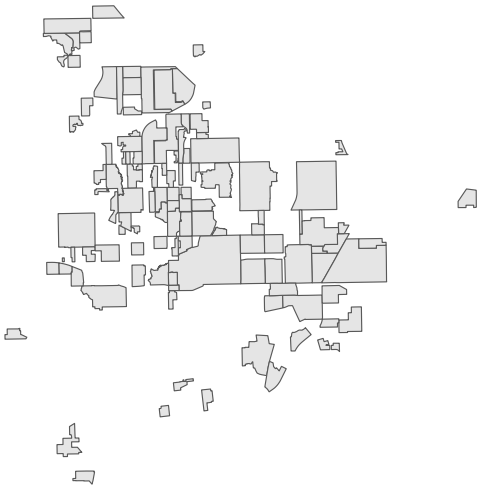
Custom city edits: None.

Gainesville, FL

Custom city edits: None.

Gainesville, FL

Neighborhoods: Cleaned

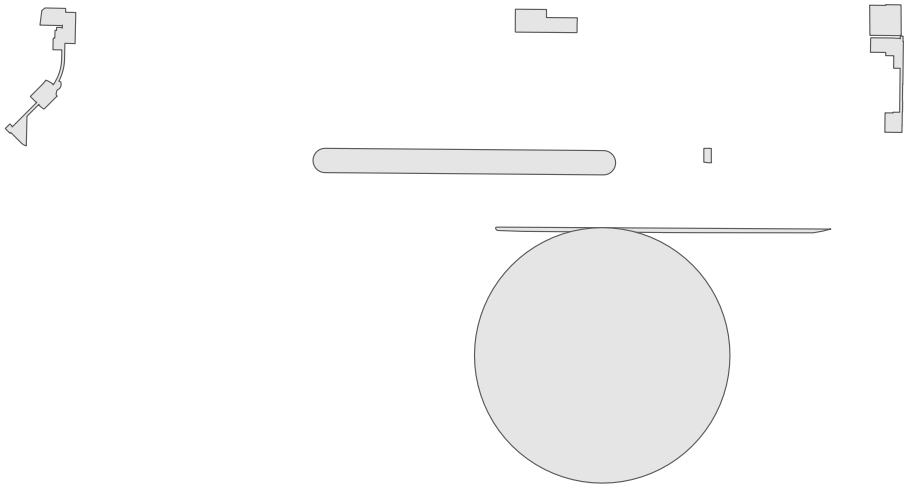


Garden Grove, CA

Custom city edits: None.

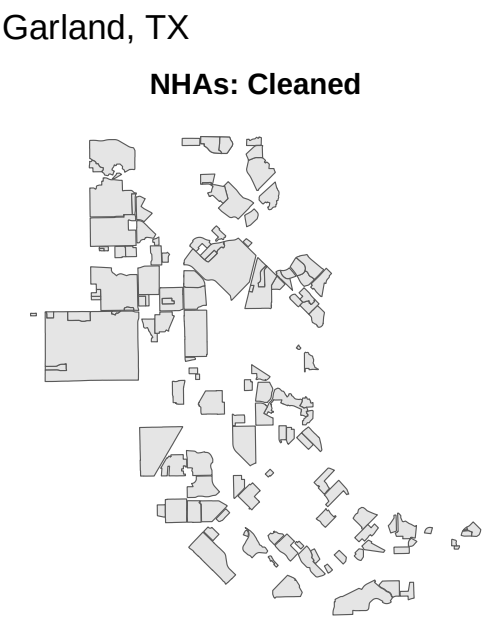
Garden Grove, CA

Neighborhoods: Cleaned



Garland, TX

Custom city edits: None.

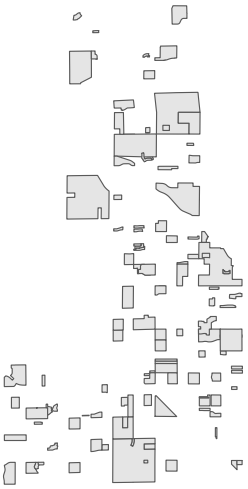


Glendale, AZ

Custom city edits: None.

Glendale, AZ

NHAs: Cleaned

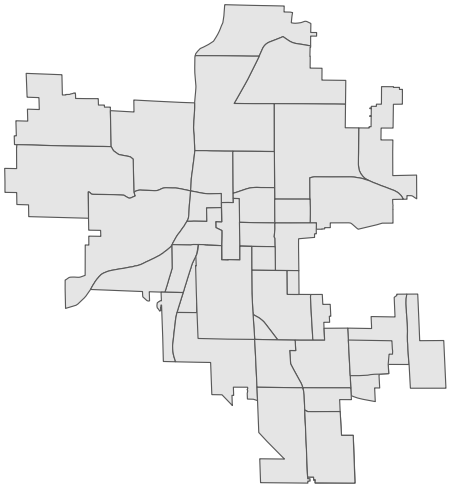


Grand Rapids, MI

Custom city edits: None.

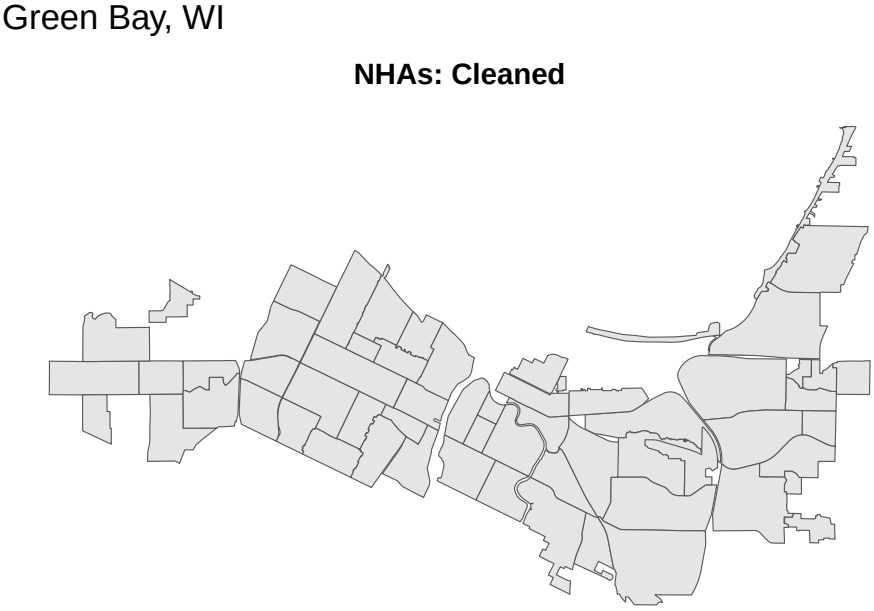
Grand Rapids, MI

NHAs: Cleaned



Green Bay, WI

Custom city edits: None.

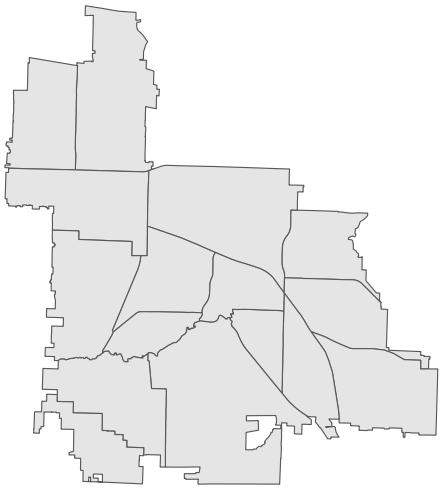


Gresham, OR

Custom city edits: None.

Gresham, OR

NHAs: Cleaned

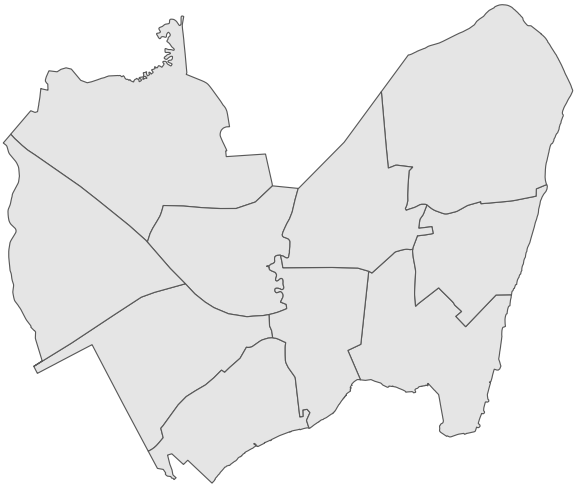


Hampton, VA

Custom city edits: None.

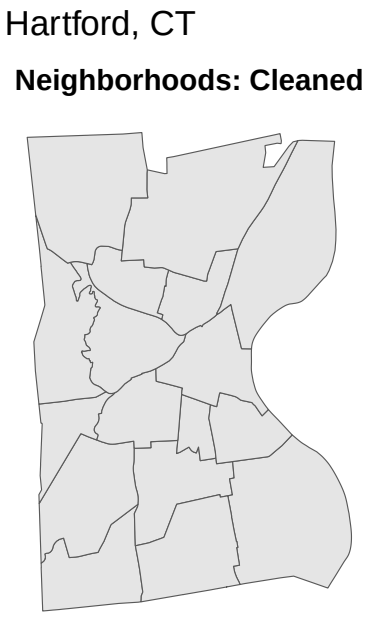
Hampton, VA

Neighborhoods: Cleaned



Hartford, CT

Custom city edits: None.

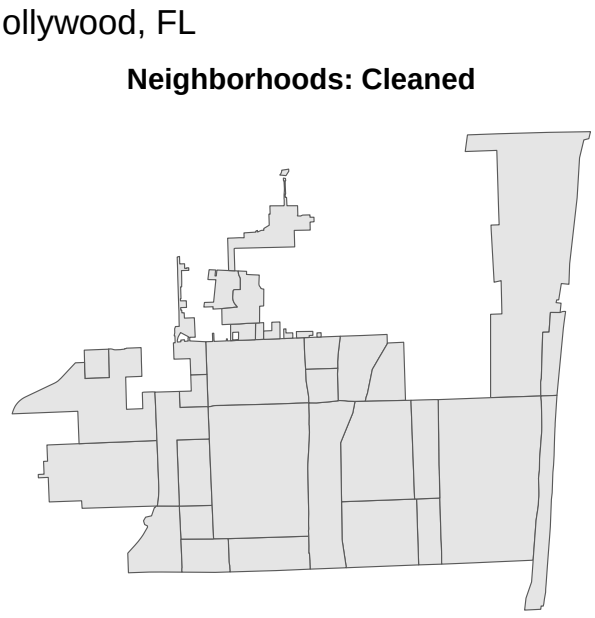


Hayward, CA

Custom city edits: None.

Hollywood, FL

Custom city edits: None.



Honolulu, HI

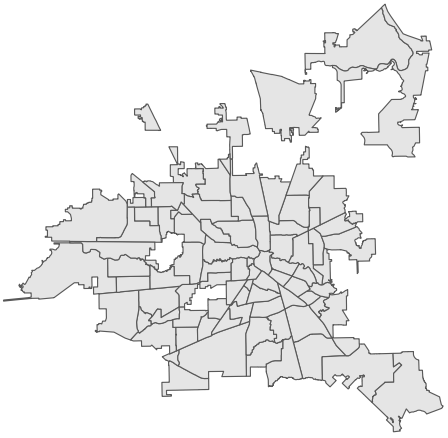
Custom city edits: None.

Houston, TX

Custom city edits: None.

Houston, TX

Neighborhoods: Cleaned



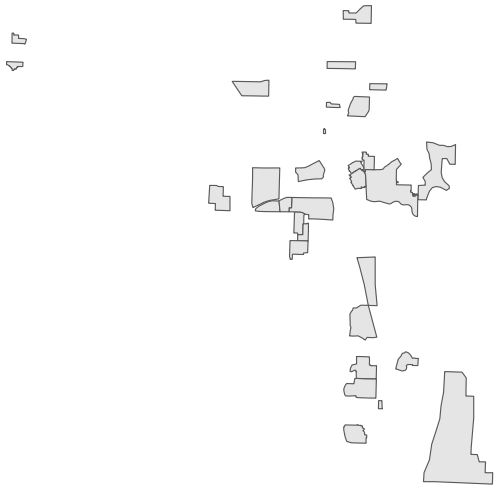
NHAs: Cleaned

Huntsville, AL

Custom city edits: None.

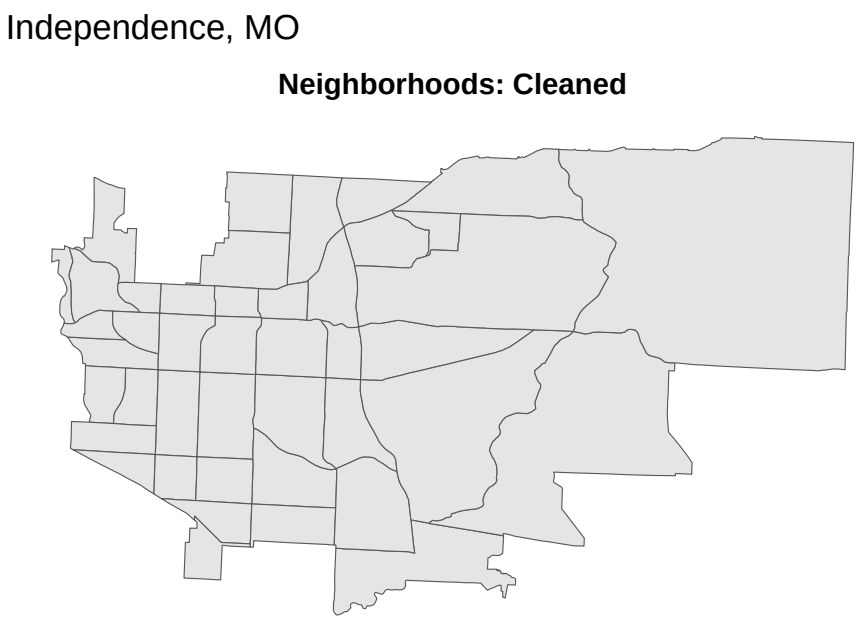
Huntsville, AL

NHAs: Cleaned



Independence, MO

Custom city edits: None.

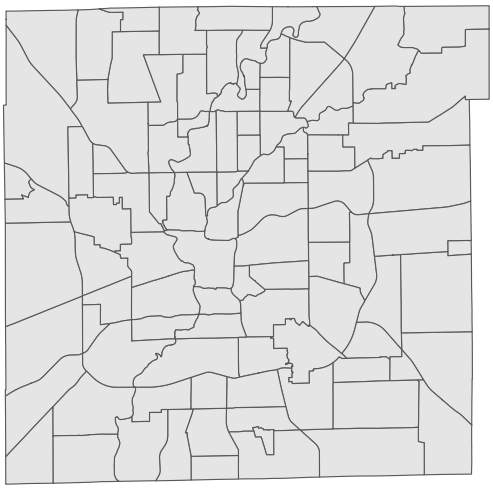


Indianapolis, IN

Custom city edits: None.

Indianapolis, IN

Neighborhoods: Cleaned

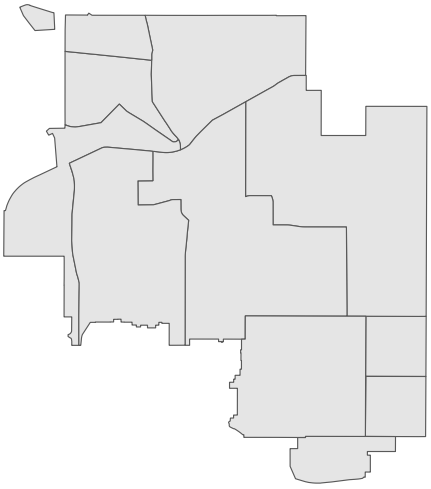


Inglewood, CA

Custom city edits: None.

Inglewood, CA

Neighborhoods: Cleaned



Irvine, CA

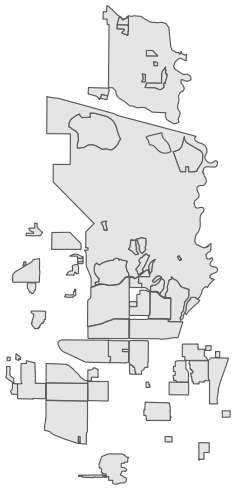
Custom city edits: None.

Irving, TX

Custom city edits: None.

Irving, TX

NHAs: Cleaned

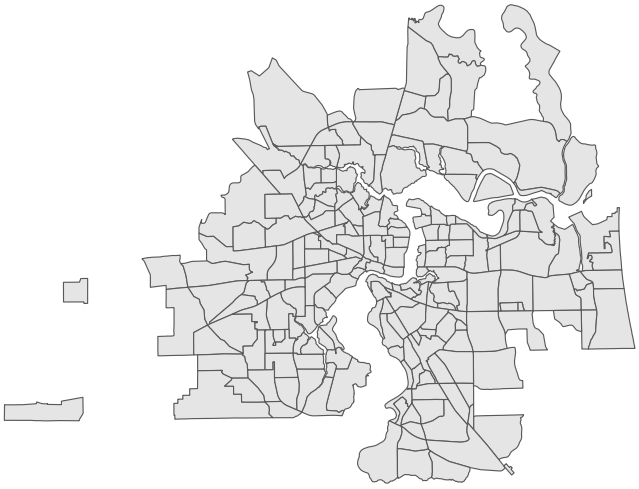


Jacksonville, FL

Custom city edits: None.

Jacksonville, FL

Neighborhoods: Cleaned

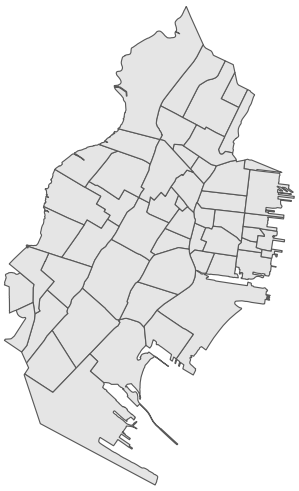


Jersey City, NJ

Custom city edits: None.

Jersey City, NJ

Neighborhoods: Cleaned

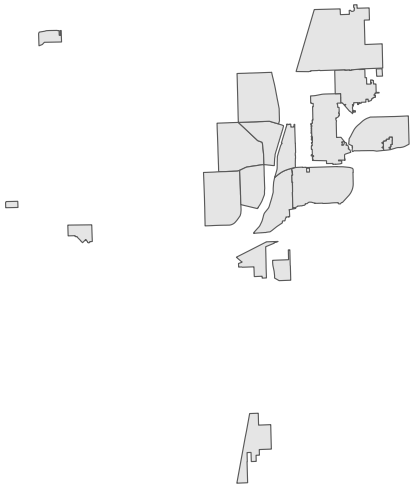


Joliet, IL

Custom city edits: None.

Joliet, IL

Neighborhoods: Cleaned

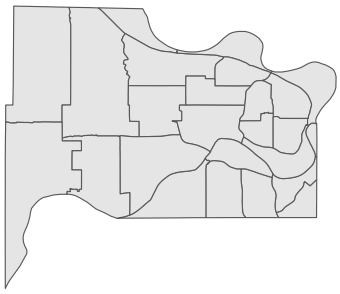


Kansas City, KS

Custom city edits: None.

Kansas City, KS

Neighborhoods: Cleaned



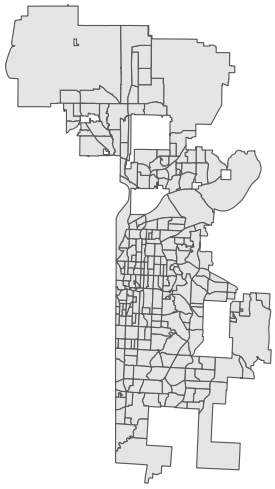
NHAs: Cleaned

Kansas City, MO

Custom city edits: None.

Kansas City, MO

Neighborhoods: Cleaned

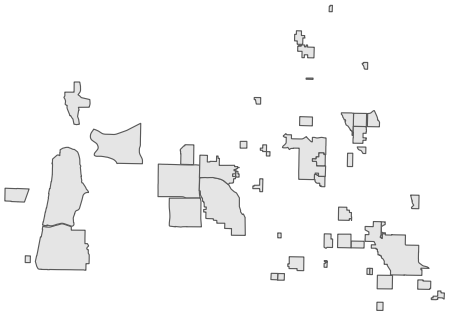


Kent, WA

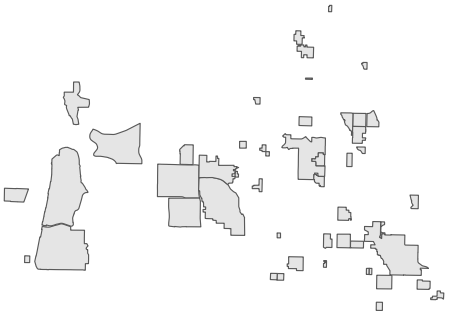
Custom city edits: None.

Kent, WA

Neighborhoods: Cleaned



NHAs: Cleaned

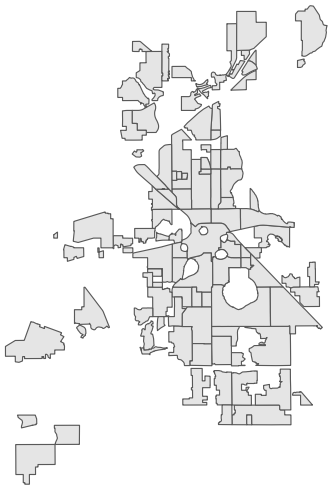


Lakeland, FL

Custom city edits: None.

Lakeland, FL

Neighborhoods: Cleaned

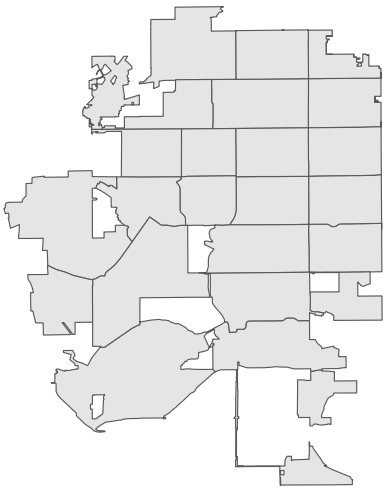


Lakewood, CO

Custom city edits: None.

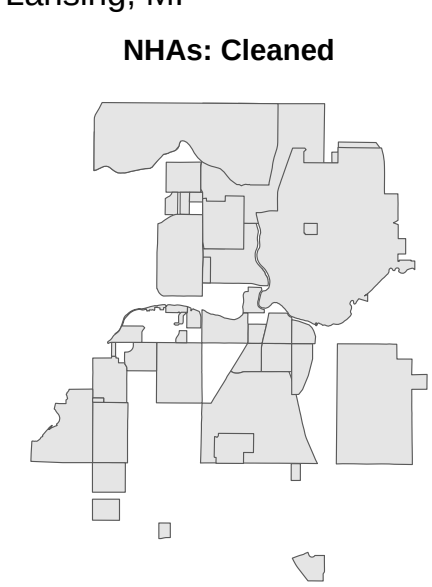
Lakewood, CO

Neighborhoods: Cleaned



Lansing, MI

Custom city edits: None.

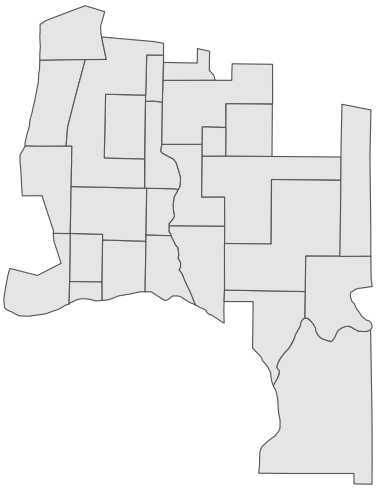


Laredo, TX

Custom city edits: None.

Laredo, TX

Neighborhoods: Cleaned



Las Vegas, NV

Custom city edits: None.

Las Vegas, NV

NHAs: Cleaned

Lehigh Acres, FL

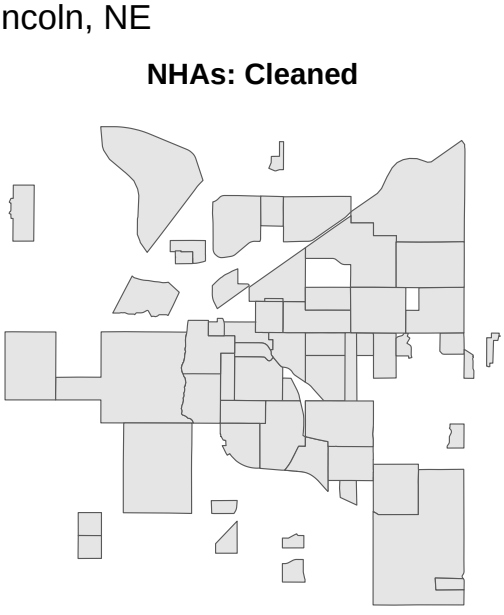
Custom city edits: None.

Lexington, KY

Custom city edits: None.

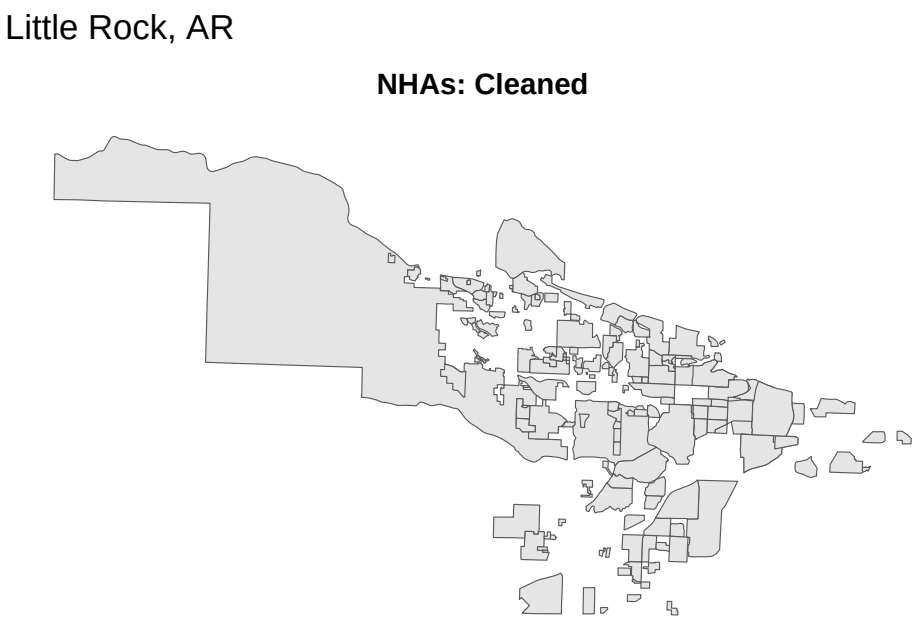
Lincoln, NE

Custom city edits: None.



Little Rock, AR

Custom city edits: None.

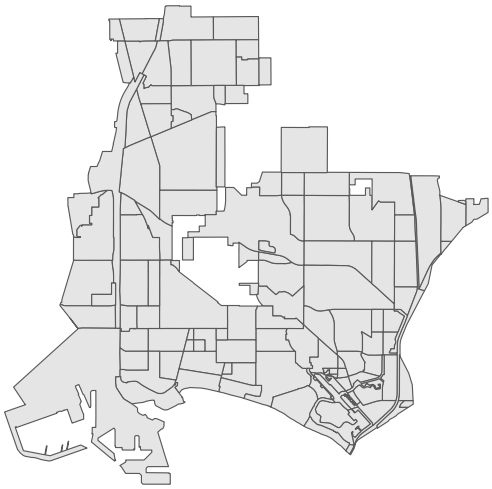


Long Beach, CA

Custom city edits: None.

Long Beach, CA

Neighborhoods: Cleaned

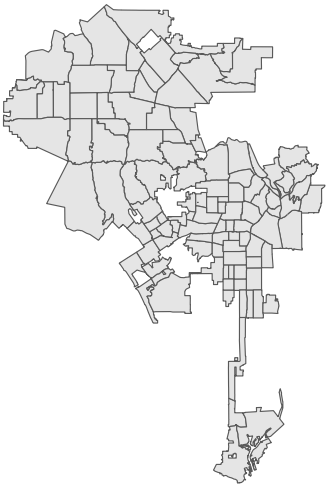


Los Angeles, CA

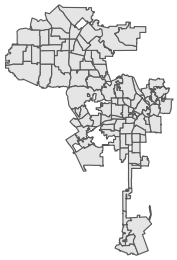
Custom city edits: None.

Los Angeles, CA

Neighborhoods: Cleaned



NHAs: Cleaned



Louisville, KY

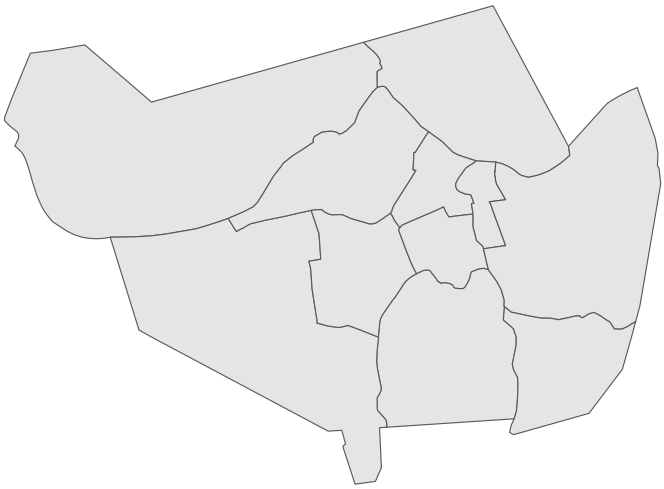
Custom city edits: None.

Lowell, MA

Custom city edits: None.

Lowell, MA

Neighborhoods: Cleaned

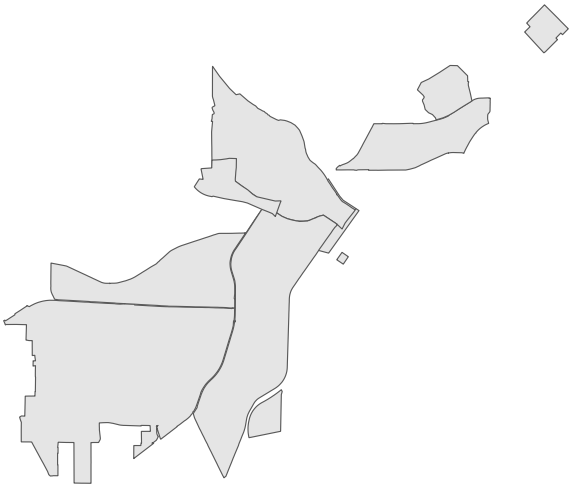


Macon, GA

Custom city edits: Macon, GA: raw neighborhoods file splits some neighborhoods into a few rows. We group them.

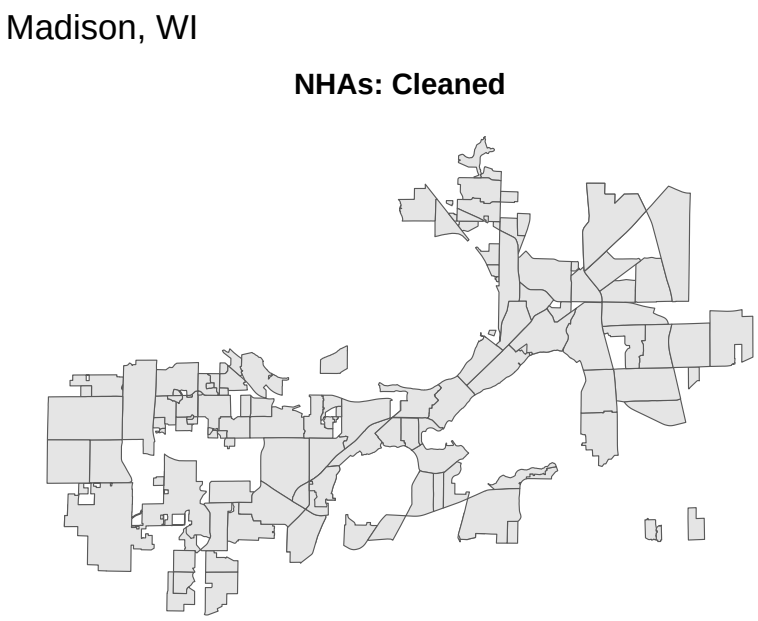
Macon, GA

Neighborhoods: Cleaned



Madison, WI

Custom city edits: None.

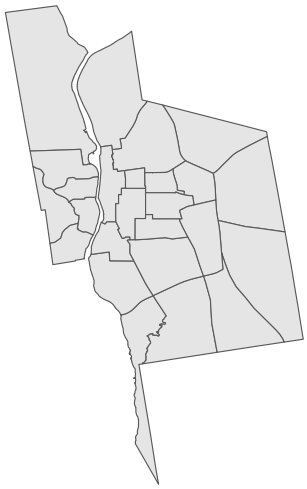


Manchester, NH

Custom city edits: None.

Manchester, NH

Neighborhoods: Cleaned

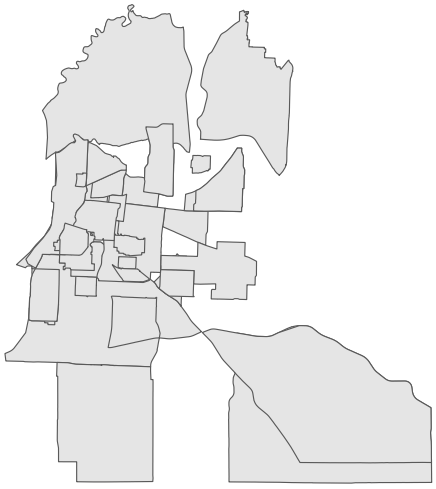


Memphis, TN

Custom city edits: None.

Memphis, TN

NHAs: Cleaned



Mesquite, TX

Custom city edits: None.

Metairie, LA

Custom city edits: None.

Metairie, LA

Neighborhoods: Cleaned

Miami, FL

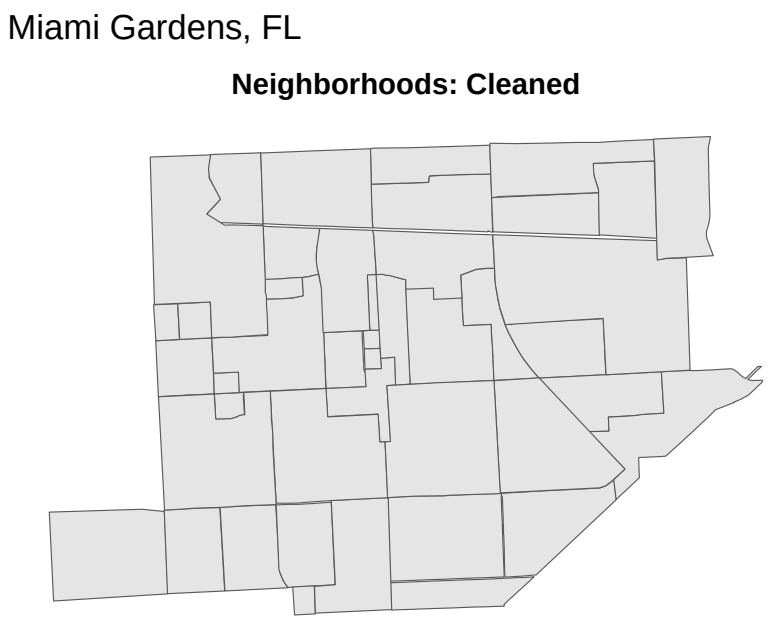
Custom city edits: None.

Miami, FL

Neighborhoods: Cleaned

Miami Gardens, FL

Custom city edits: None.

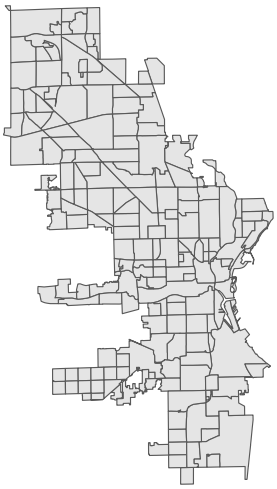


Milwaukee, WI

Custom city edits: None.

Milwaukee, WI

Neighborhoods: Cleaned

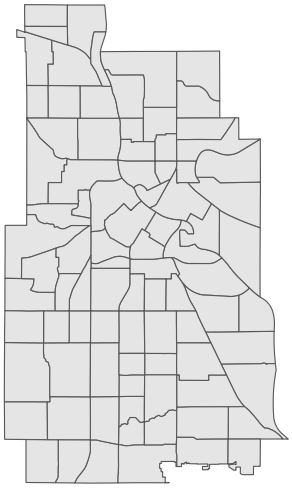


Minneapolis, MN

Custom city edits: None.

Minneapolis, MN

Neighborhoods: Cleaned

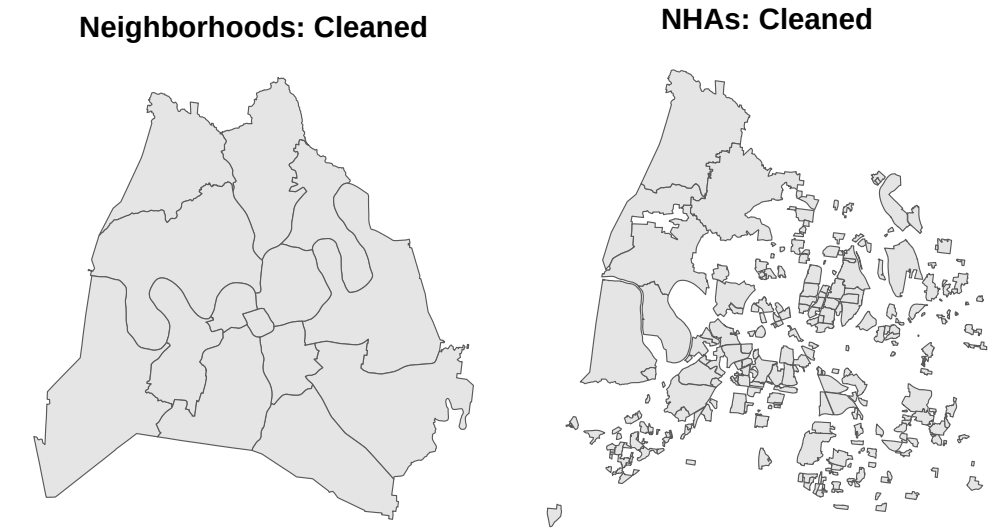


Miramar, FL

Custom city edits: None.

Nashville, TN

Custom city edits: None.



Newark, NJ

Custom city edits: None.

Newark, NJ

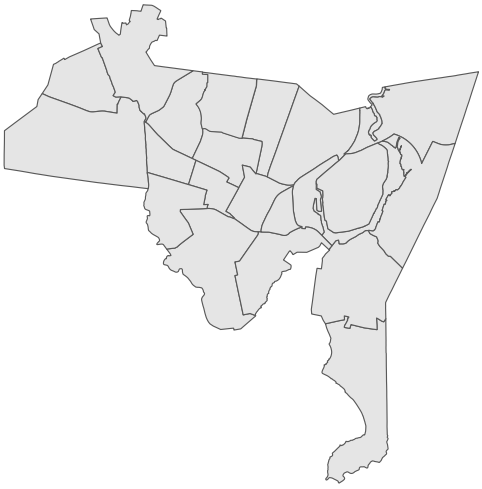
Neighborhoods: Cleaned

New Haven, CT

Custom city edits: None.

New Haven, CT

Neighborhoods: Cleaned



New Orleans, LA

Custom city edits: None.

Newport News, VA

Custom city edits: None.

Newport News, VA

Neighborhoods: Cleaned

New York, NY

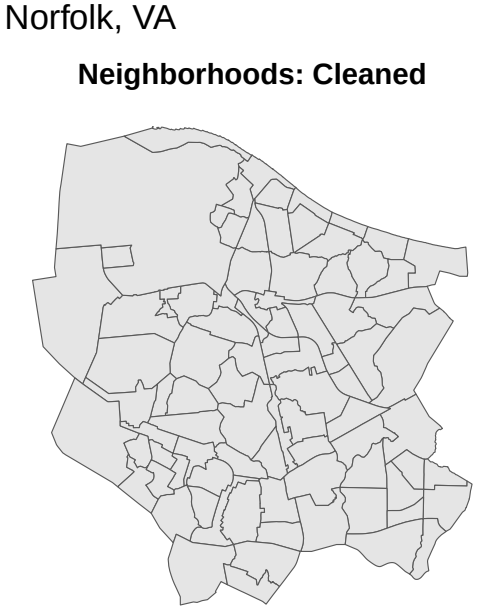
Custom city edits: None.

New York, NY

Neighborhoods: Cleaned

Norfolk, VA

Custom city edits: None.

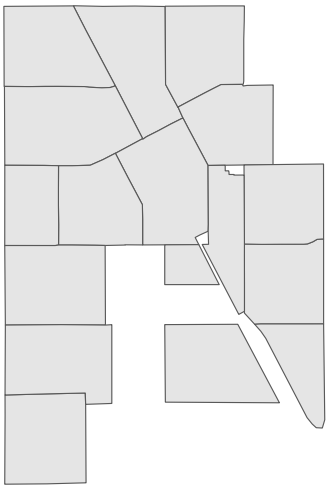


Norman, OK

Custom city edits: None.

Norman, OK

Neighborhoods: Cleaned



North Charleston, SC

Custom city edits: North Charleston, SC: raw neighborhoods file lists portions of neighborhoods. We aggregate up to neighborhood level.

North Charleston, SC

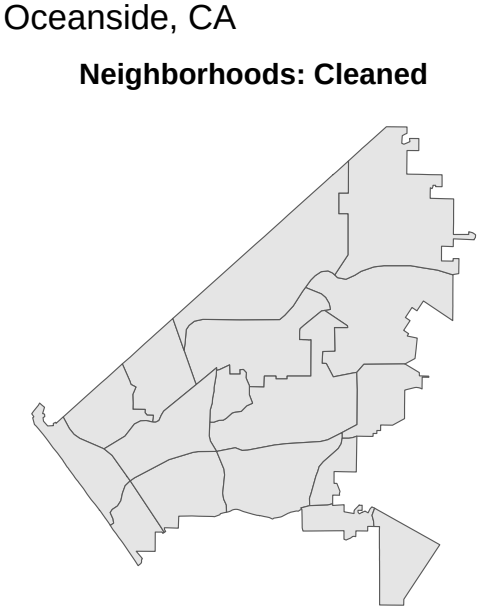
Neighborhoods: Cleaned

Oakland, CA

Custom city edits: None.

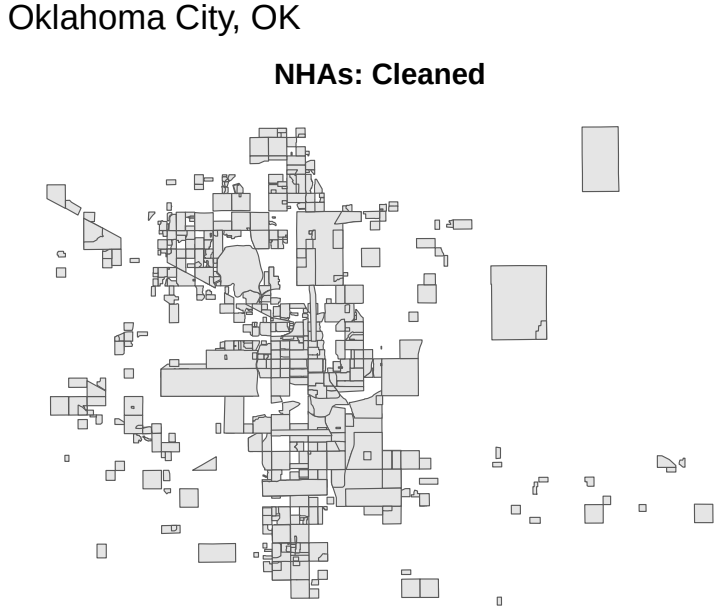
Oceanside, CA

Custom city edits: None.



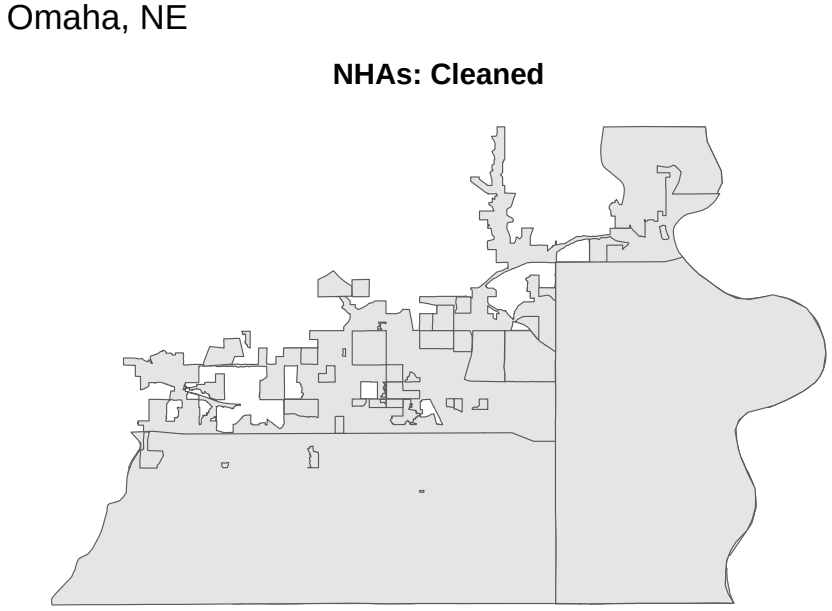
Oklahoma City, OK

Custom city edits: None.



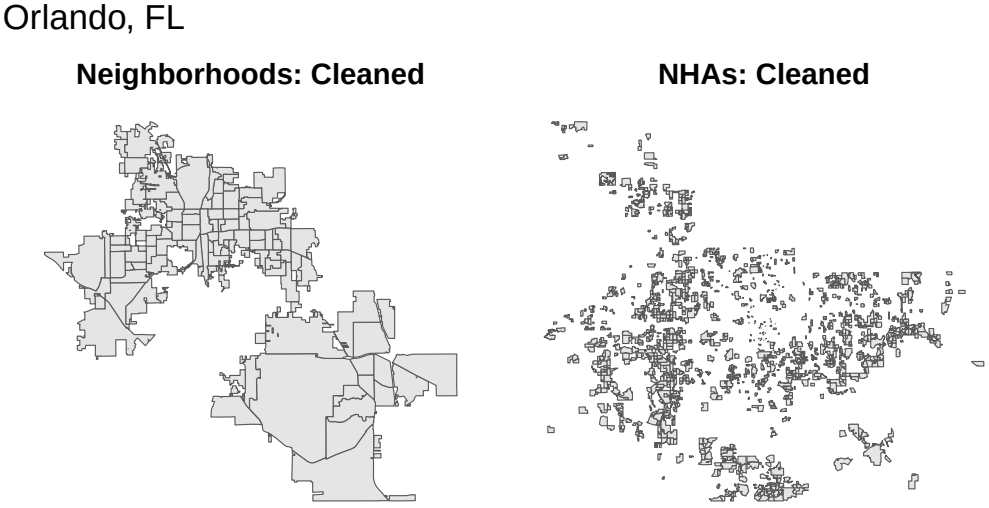
Omaha, NE

Custom city edits: None.



Orlando, FL

Custom city edits: None.

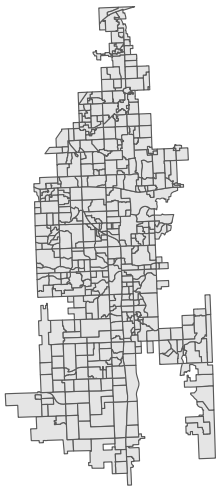


Overland Park, KS

Custom city edits: Overland Park, KS: raw neighborhoods file includes neighborhoods at county level. We trim these to neighborhoods only within Overland Park.

Overland Park, KS

Neighborhoods: Cleaned

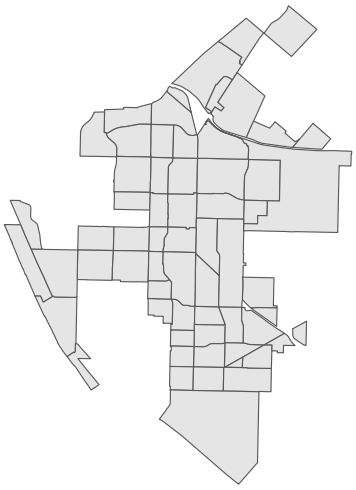


Oxnard, CA

Custom city edits: None.

Oxnard, CA

Neighborhoods: Cleaned

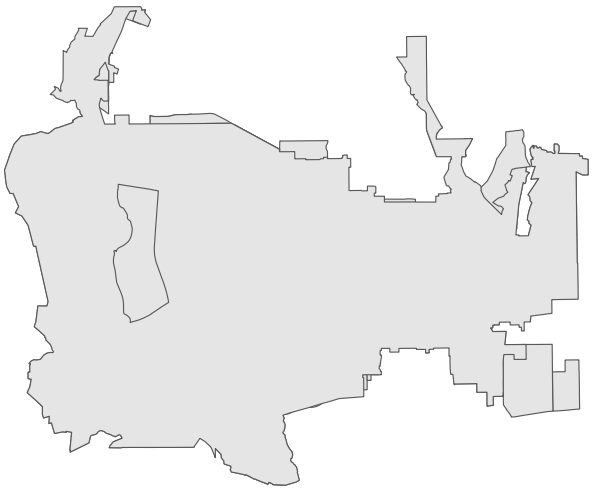


Pasadena, CA

Custom city edits: None.

Pasadena, CA

NHAs: Cleaned

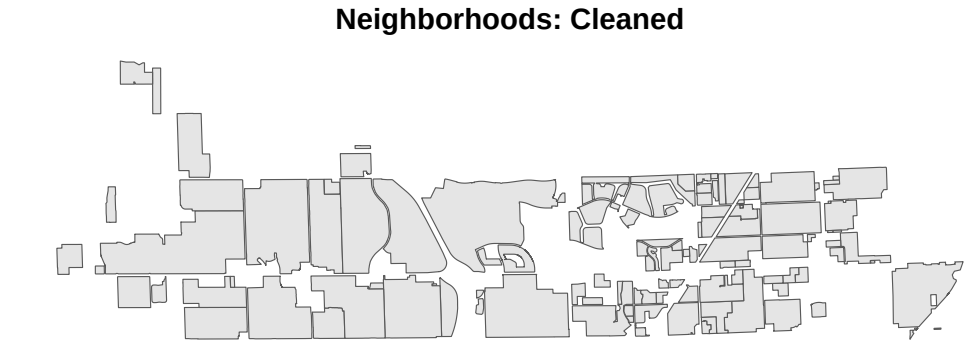


Pearland, TX

Custom city edits: None.

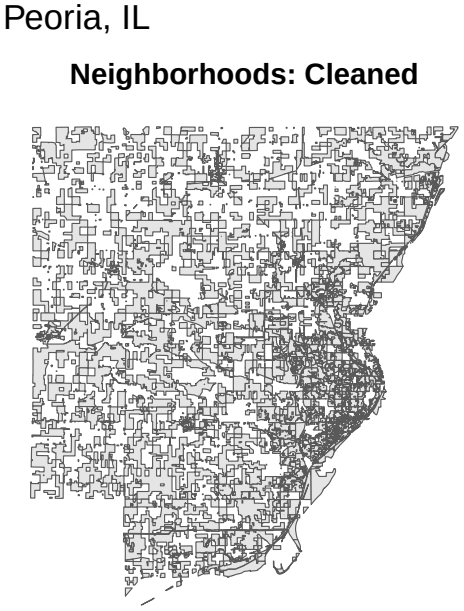
Pembroke Pines, FL

Custom city edits: Pembroke Pines, FL: raw neighborhood data reports some neighborhoods in separate pieces. We aggregate them.



Peoria, IL

Custom city edits: Peoria, IL: raw neighborhoods file includes two shapes that seem to represent areas in the city not represented by a neighborhood. We remove those two.



Philadelphia, PA

Custom city edits: None.

Philadelphia, PA

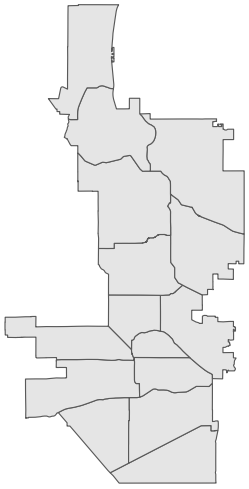
Neighborhoods: Cleaned

Phoenix, AZ

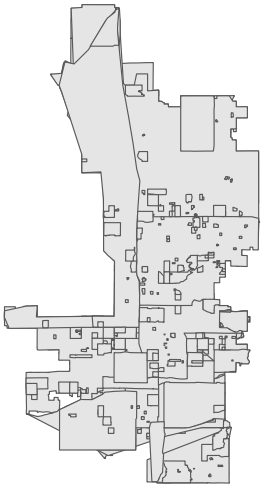
Custom city edits: None.

Phoenix, AZ

Neighborhoods: Cleaned



NHAs: Cleaned

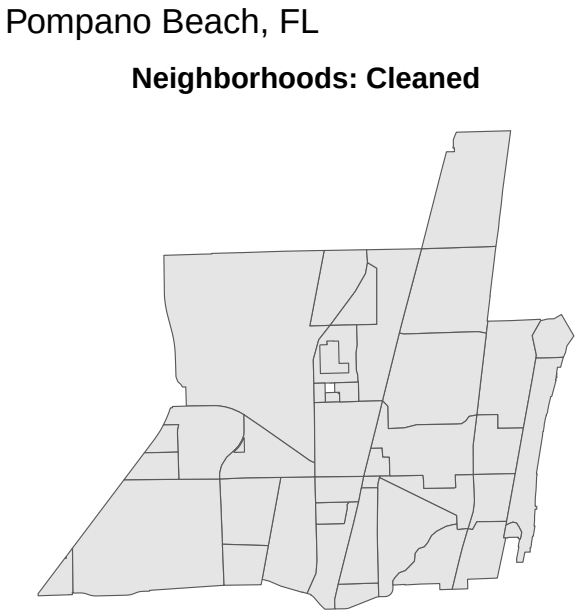


Pittsburgh, PA

Custom city edits: None.

Pompano Beach, FL

Custom city edits: None.

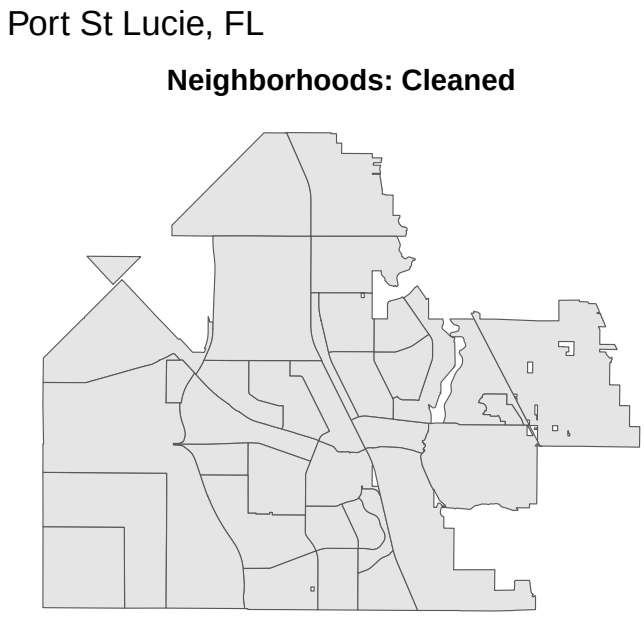


Portland, OR

Custom city edits: None.

Port St Lucie, FL

Custom city edits: None.

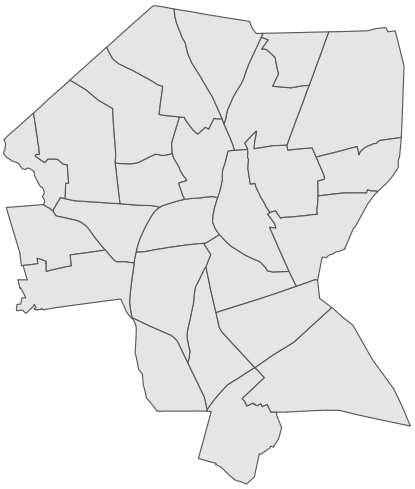


Providence, RI

Custom city edits: None.

Providence, RI

Neighborhoods: Cleaned

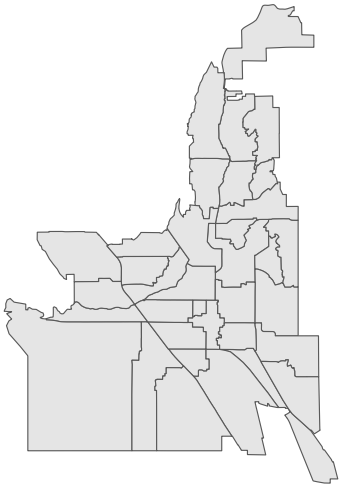


Provo, UT

Custom city edits: None.

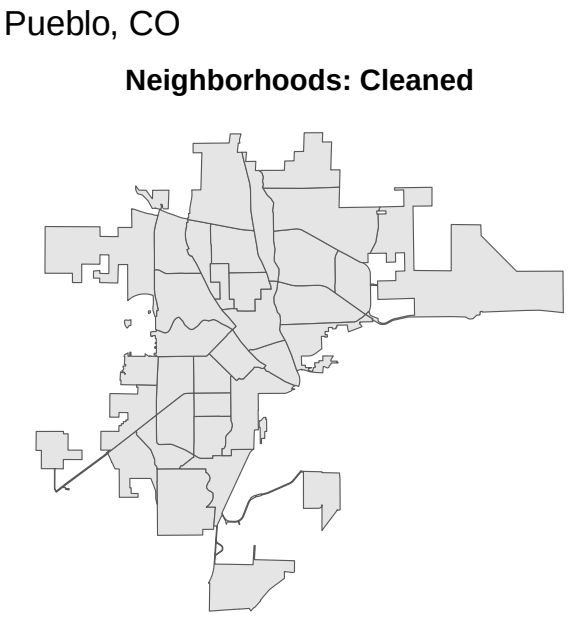
Provo, UT

Neighborhoods: Cleaned



Pueblo, CO

Custom city edits: Pueblo, CO: raw neighborhoods file has a shape for areas outside of the city within the county. We remove that shape.



Quincy, MA

Custom city edits: None.

Quincy, MA

Neighborhoods: Cleaned

Raleigh, NC

Custom city edits: None.

Raleigh, NC

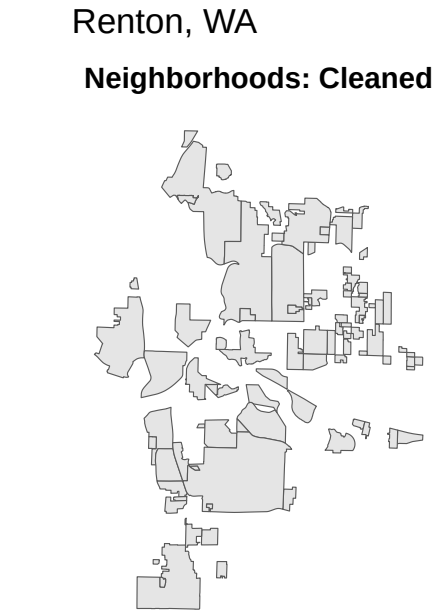
NHAs: Cleaned

Rancho Cucamonga, CA

Custom city edits: None.

Renton, WA

Custom city edits: None.

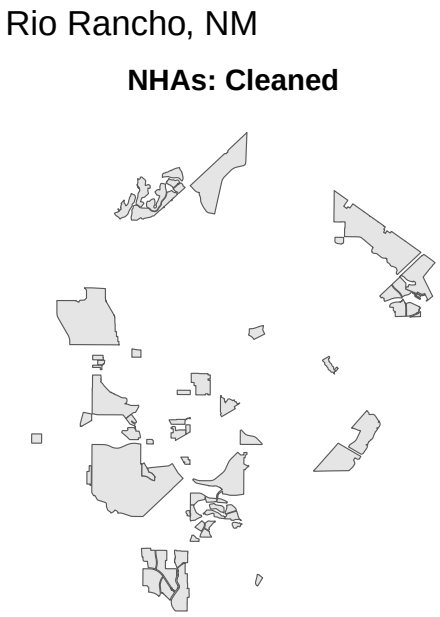


Richmond, VA

Custom city edits: None.

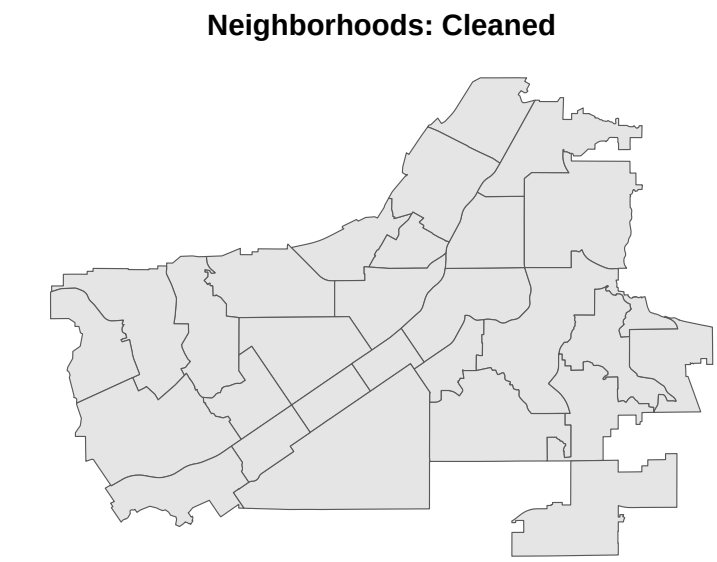
Rio Rancho, NM

Custom city edits: None.



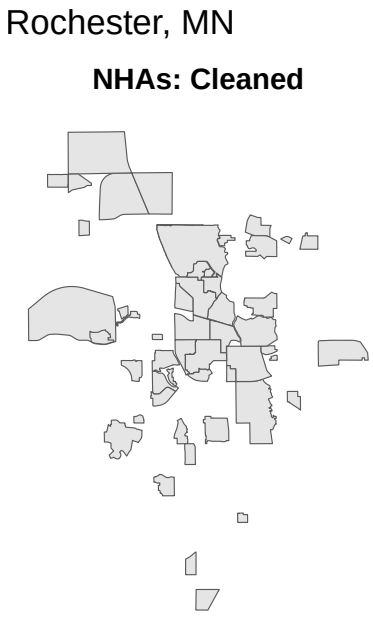
Riverside, CA

Custom city edits: None.



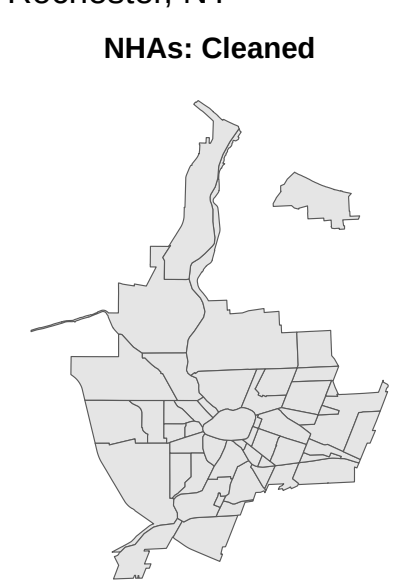
Rochester, MN

Custom city edits: None.



Rochester, NY

Custom city edits: None.

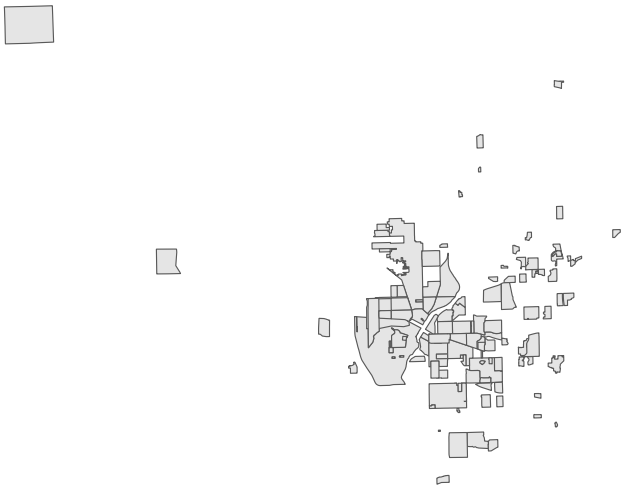


Rockford, IL

Custom city edits: None.

Rockford, IL

NHAs: Cleaned

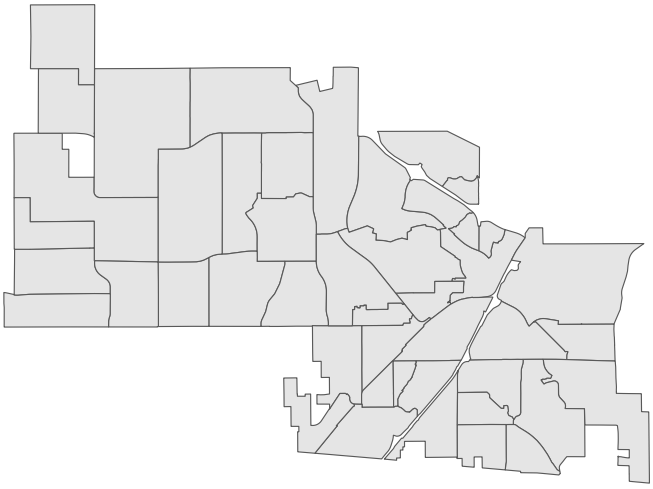


Roseville, CA

Custom city edits: None.

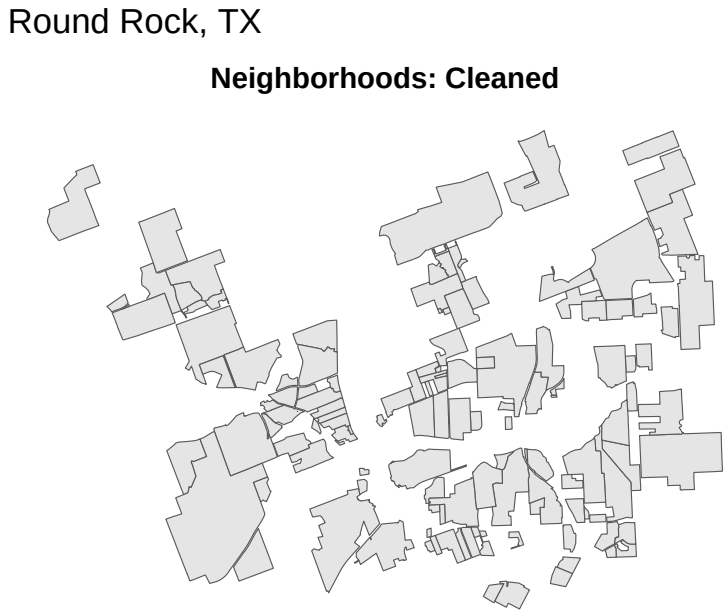
Roseville, CA

NHAs: Cleaned



Round Rock, TX

Custom city edits: None.

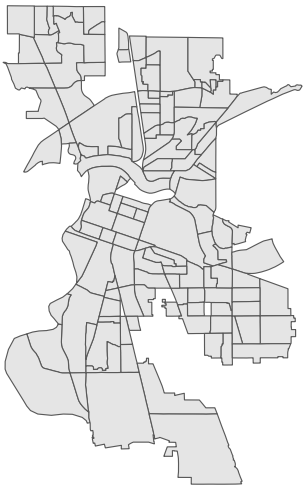


Sacramento, CA

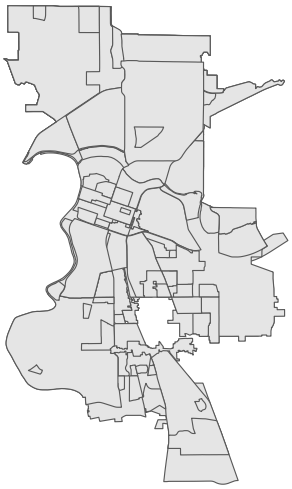
Custom city edits: None.

Sacramento, CA

Neighborhoods: Cleaned



NHAs: Cleaned

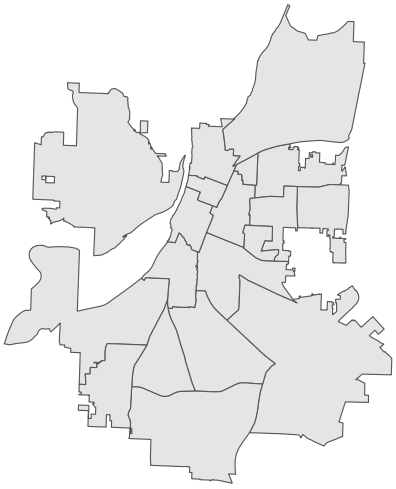


Salem, OR

Custom city edits: None.

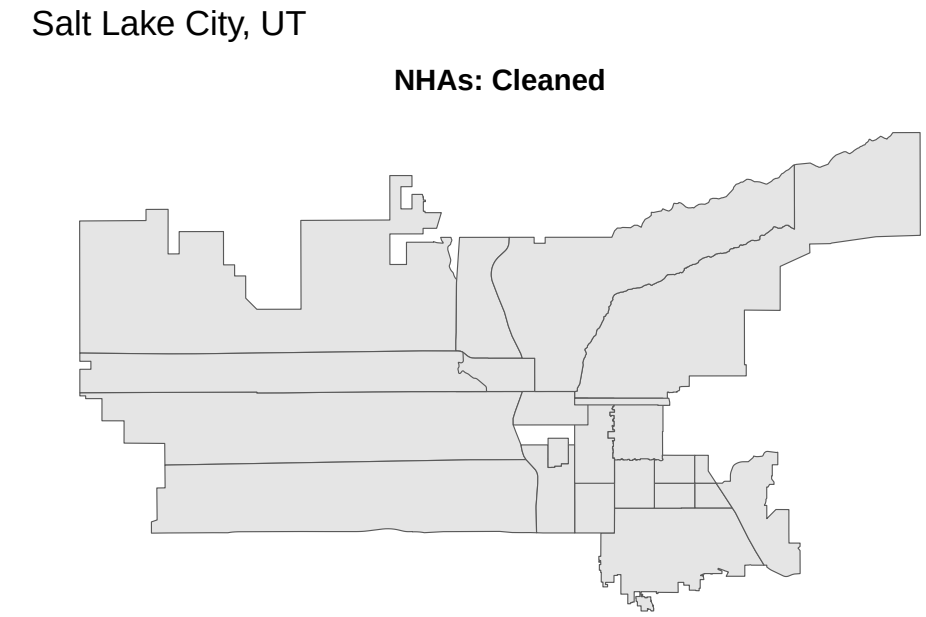
Salem, OR

NHAs: Cleaned



Salt Lake City, UT

Custom city edits: None.

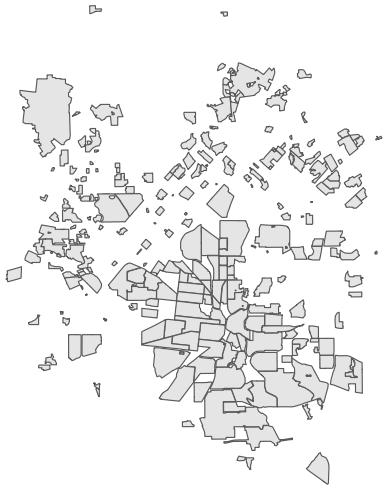


San Antonio, TX

Custom city edits: None.

San Antonio, TX

NHAs: Cleaned

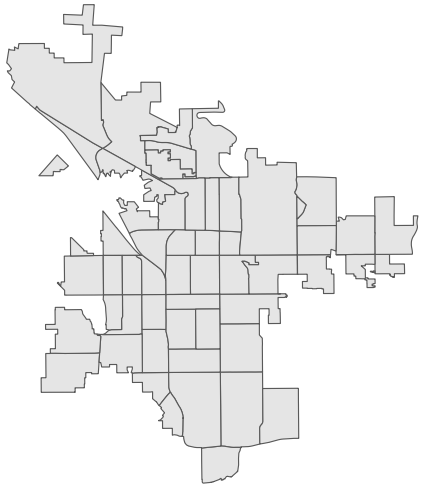


San Bernardino, CA

Custom city edits: None.

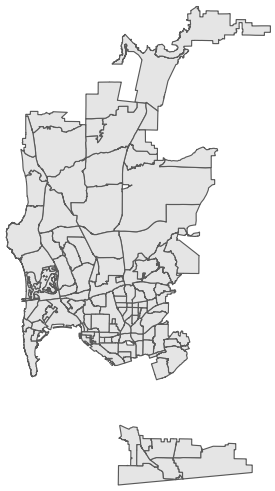
San Bernardino, CA

NHAs: Cleaned



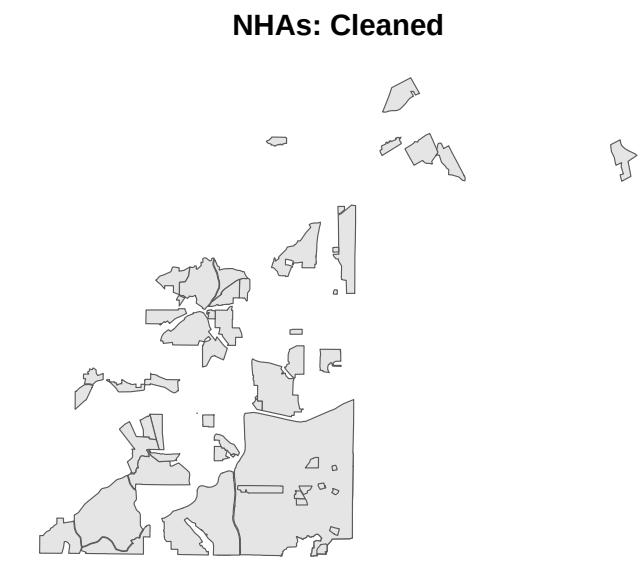
San Diego, CA

Custom city edits: None.



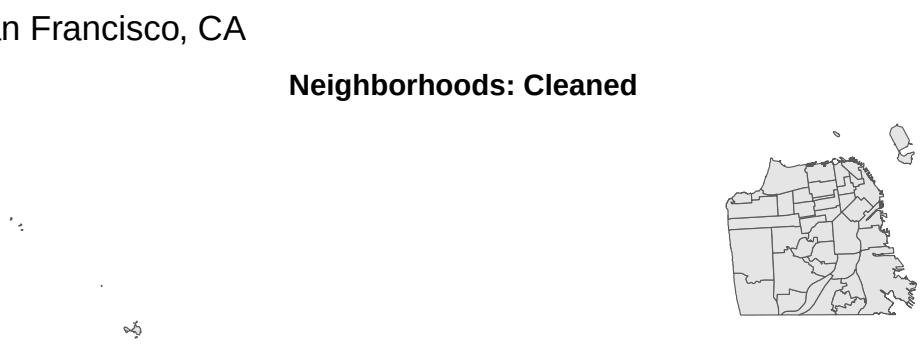
Sandy Springs, GA

Custom city edits: None.



San Francisco, CA

Custom city edits: San Francisco, CA: raw neighborhoods file lists portions of neighborhoods. We aggregate up to neighborhood level.

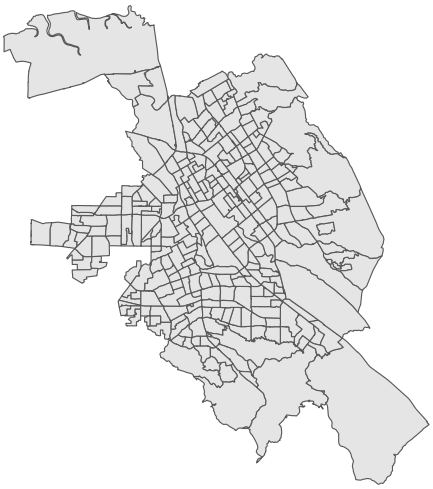


San Jose, CA

Custom city edits: None.

San Jose, CA

Neighborhoods: Cleaned



San Mateo, CA

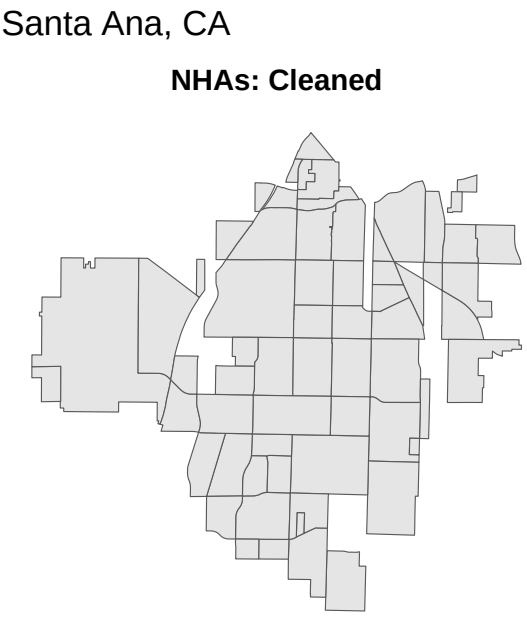
Custom city edits: None.

San Mateo, CA

Neighborhoods: Cleaned

Santa Ana, CA

Custom city edits: None.

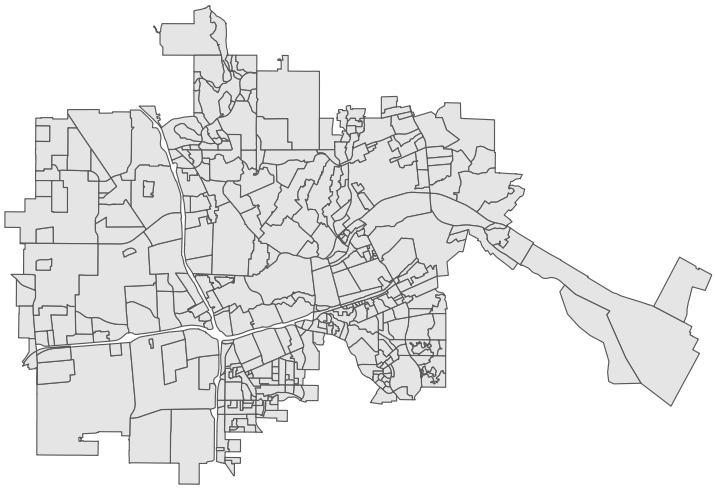


Santa Rosa, CA

Custom city edits: None.

Santa Rosa, CA

Neighborhoods: Cleaned



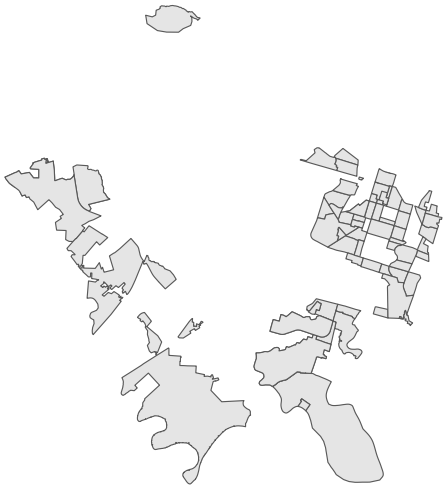
Savannah, GA

Custom city edits: Savannah, GA: raw NHA file lists every neighborhood, even if no NHA. We filter to NHAs.

Savannah, GA

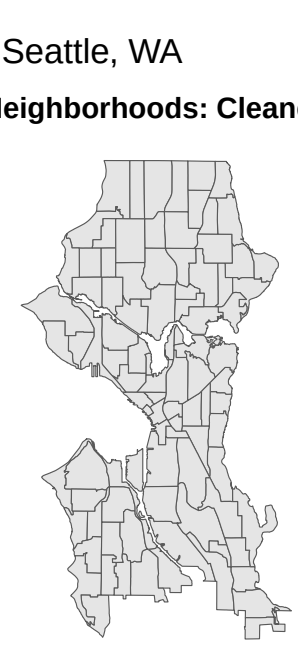
Neighborhoods: Cleaned

NHAs: Cleaned



Seattle, WA

Custom city edits: None.

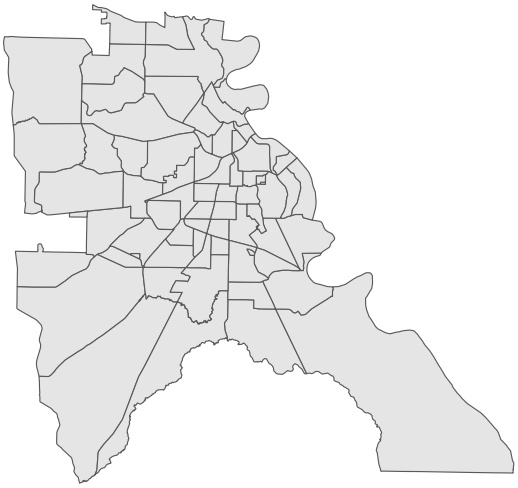


Shreveport, LA

Custom city edits: None.

Shreveport, LA

Neighborhoods: Cleaned

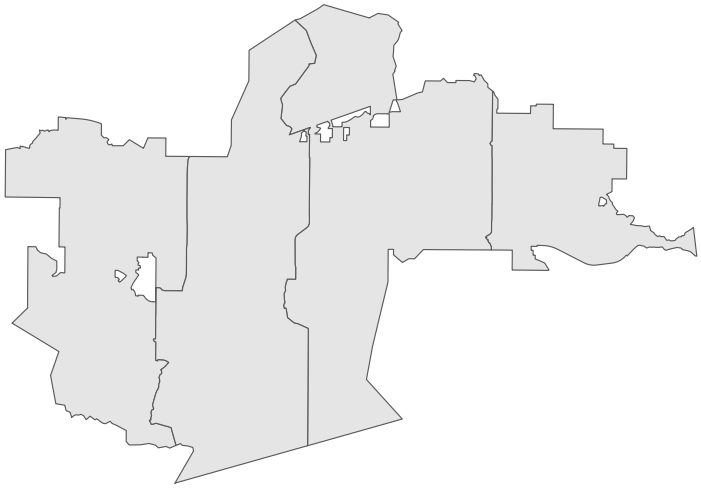


Simi Valley, CA

Custom city edits: None.

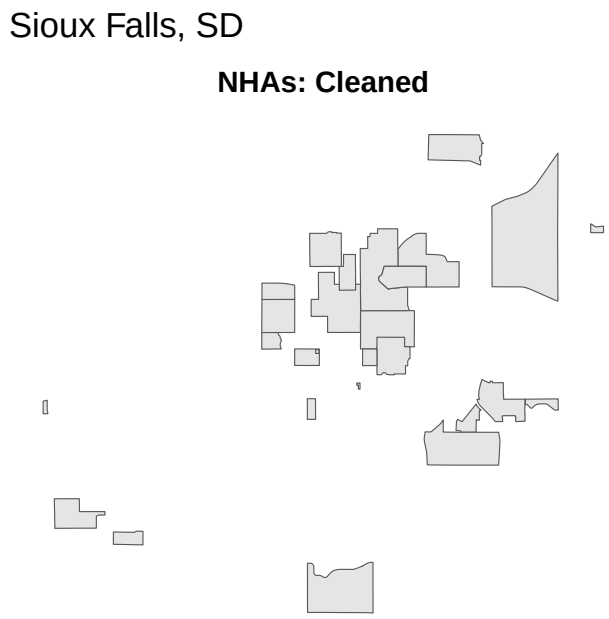
Simi Valley, CA

NHAs: Cleaned



Sioux Falls, SD

Custom city edits: None.

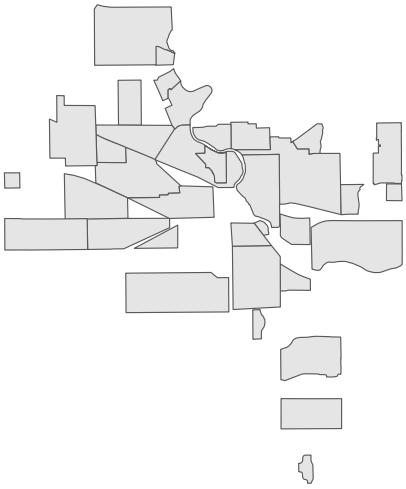


South Bend, IN

Custom city edits: None.

South Bend, IN

NHAs: Cleaned

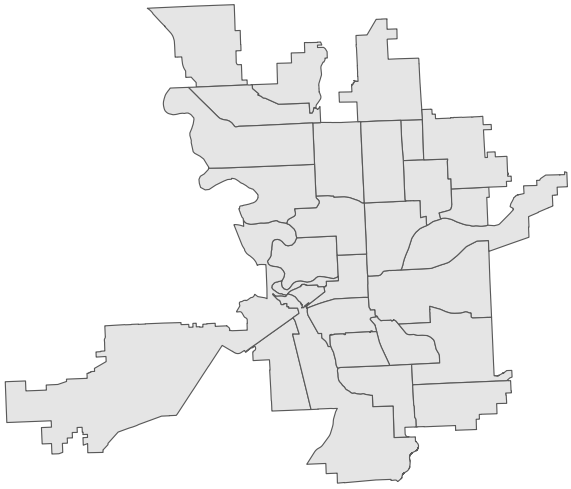


Spokane, WA

Custom city edits: None.

Spokane, WA

Neighborhoods: Cleaned



Springfield, MA

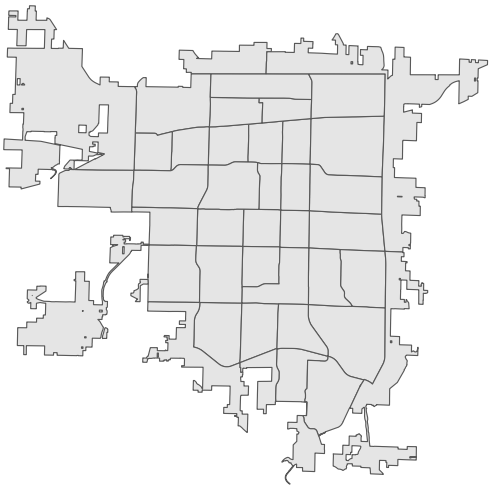
Custom city edits: None.

Springfield, MO

Custom city edits: None.

Springfield, MO

Neighborhoods: Cleaned



St Louis, MO

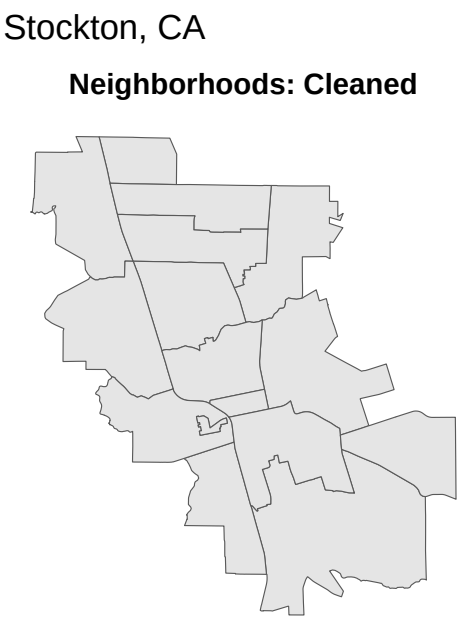
Custom city edits: None.

St Louis, MO

Neighborhoods: Cleaned

Stockton, CA

Custom city edits: None.

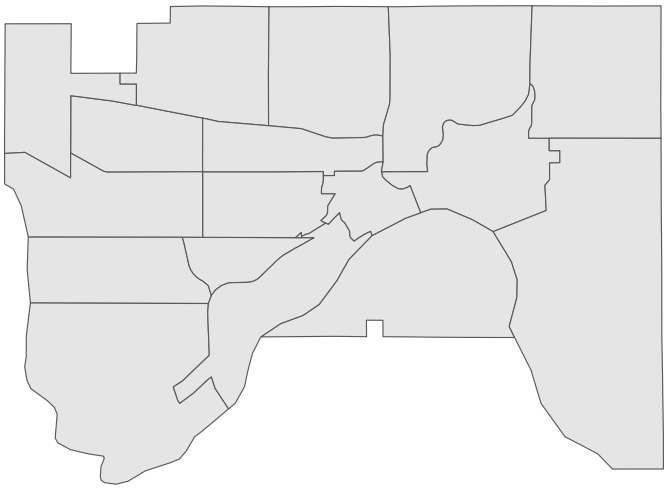


St Paul, MN

Custom city edits: None.

St Paul, MN

Neighborhoods: Cleaned

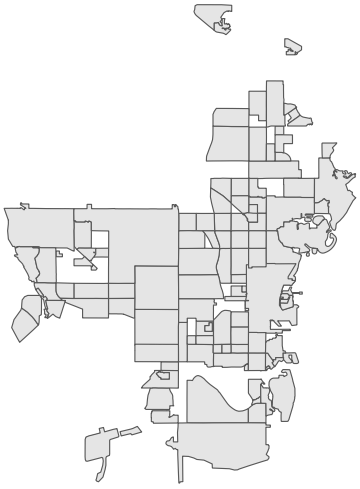


St Petersburg, FL

Custom city edits: None.

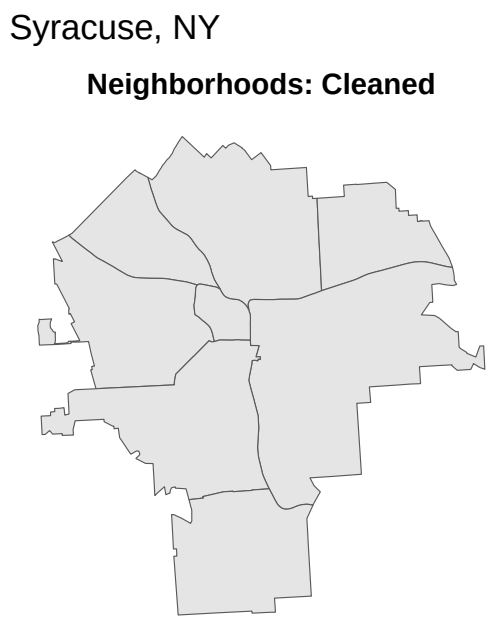
St Petersburg, FL

NHAs: Cleaned



Syracuse, NY

Custom city edits: None.

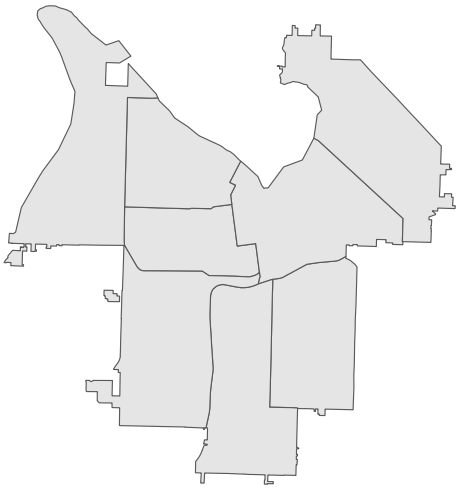


Tacoma, WA

Custom city edits: None.

Tacoma, WA

Neighborhoods: Cleaned

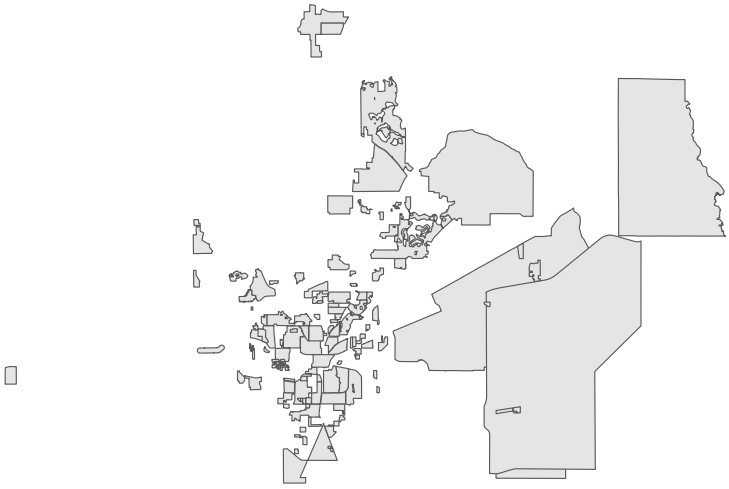


Tallahassee, FL

Custom city edits: None.

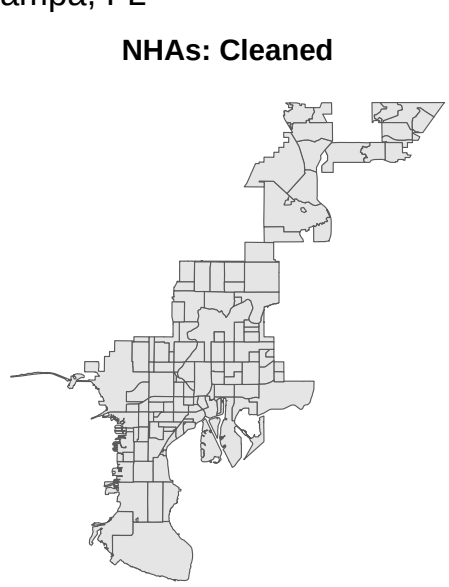
Tallahassee, FL

NHAs: Cleaned



Tampa, FL

Custom city edits: None.

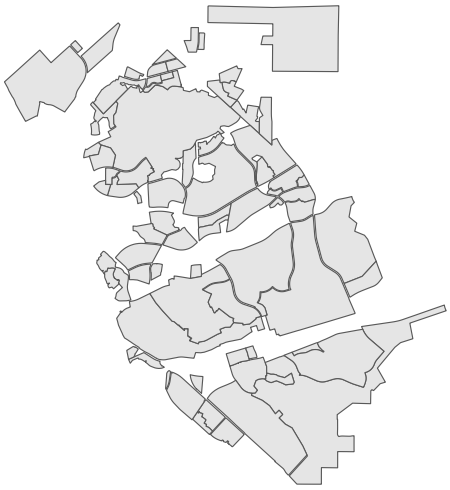


Temecula, CA

Custom city edits: None.

Temecula, CA

Neighborhoods: Cleaned



Tempe, AZ

Custom city edits: None.

Tempe, AZ

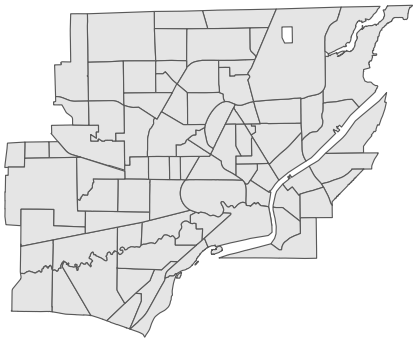
NHAs: Cleaned

Toledo, OH

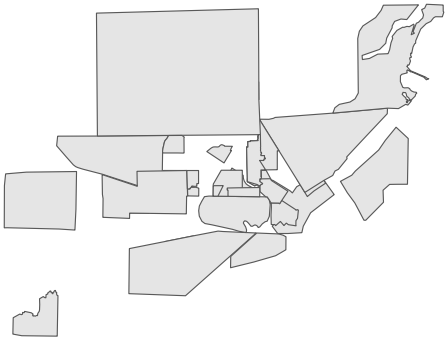
Custom city edits: Toledo, OH: raw NHA file seems to have a shape that covers city boundary. We remove that shape, which represents a national (not local) organization.

Toledo, OH

Neighborhoods: Cleaned



NHAs: Cleaned

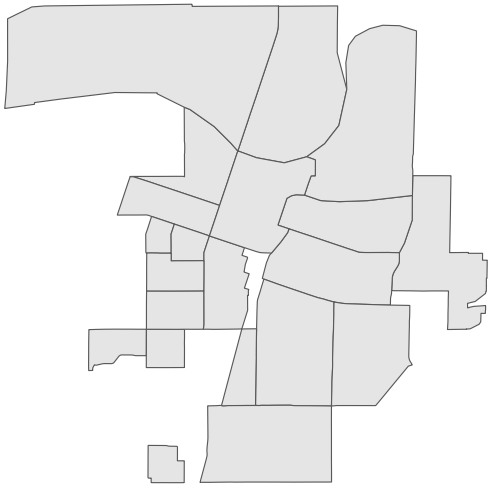


Topeka, KS

Custom city edits: None.

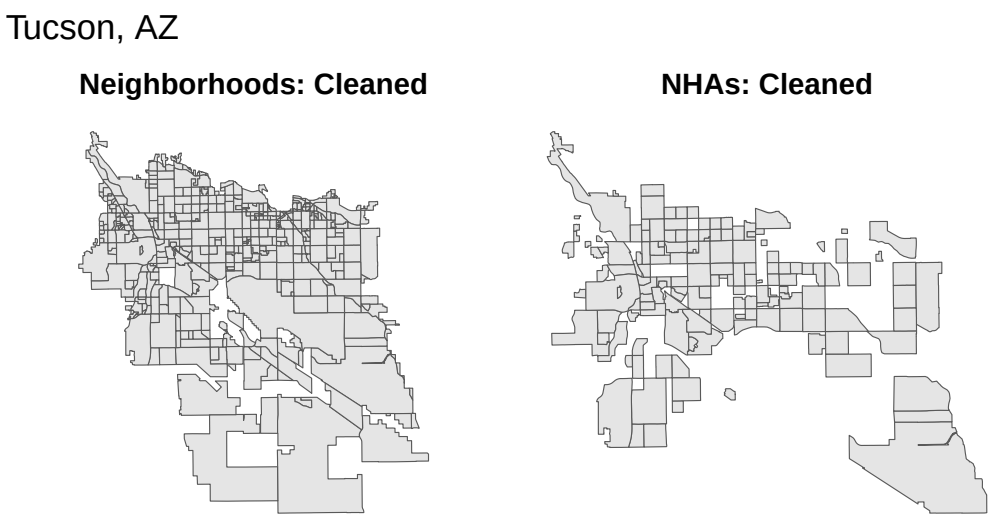
Topeka, KS

NHAs: Cleaned



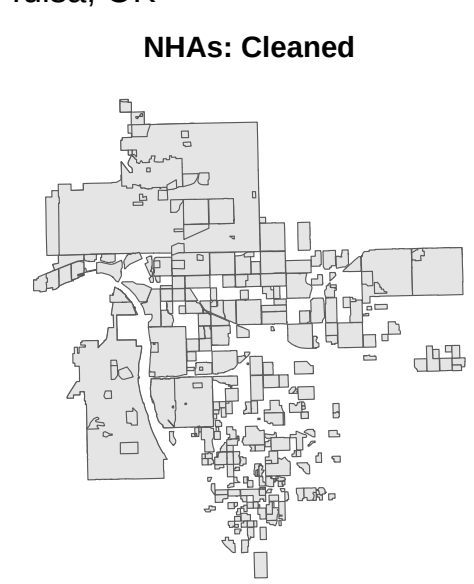
Tucson, AZ

Custom city edits: None.



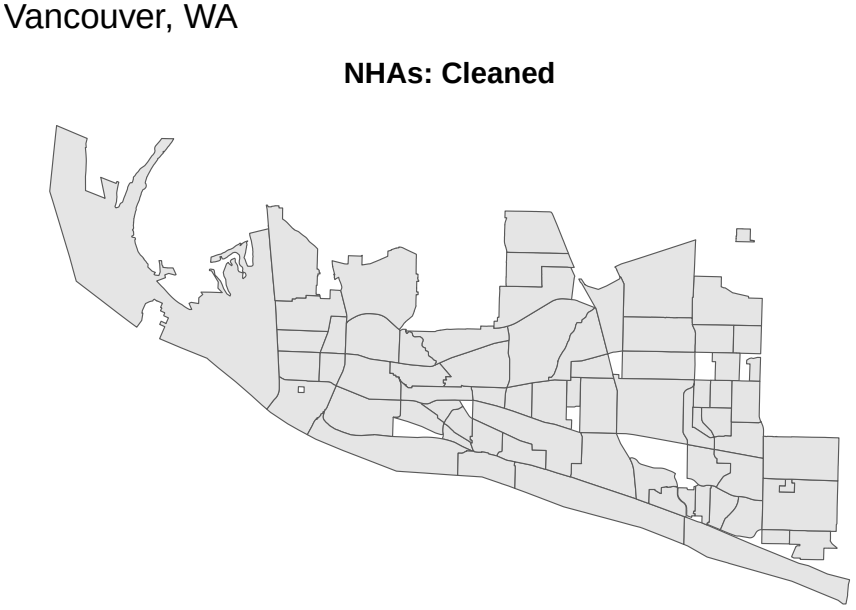
Tulsa, OK

Custom city edits: None.



Vancouver, WA

Custom city edits: None.

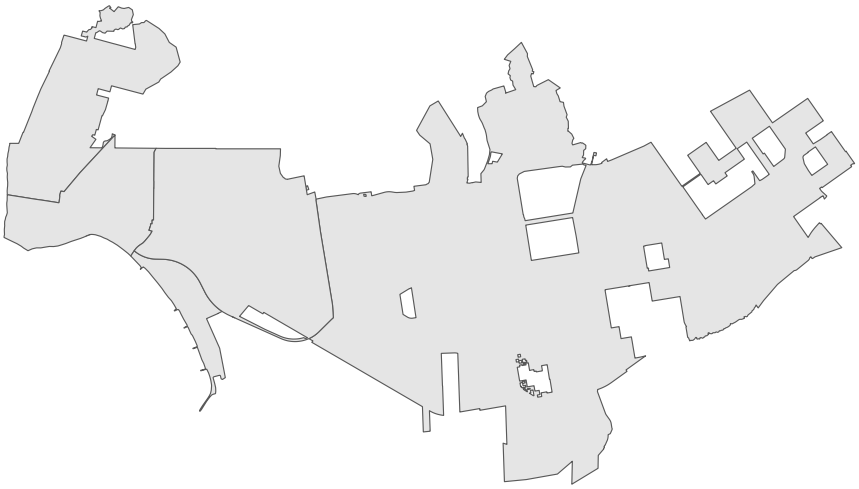


Ventura, CA

Custom city edits: None.

Ventura, CA

Neighborhoods: Cleaned

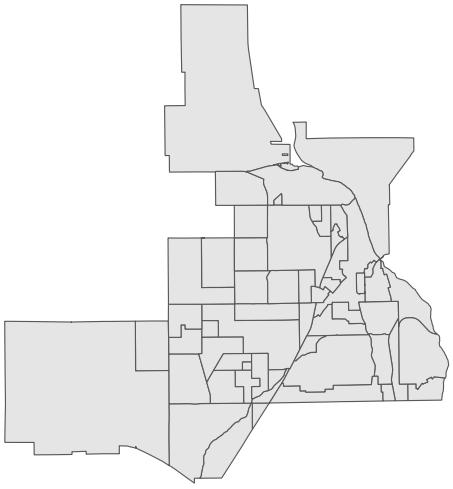


Victorville, CA

Custom city edits: None.

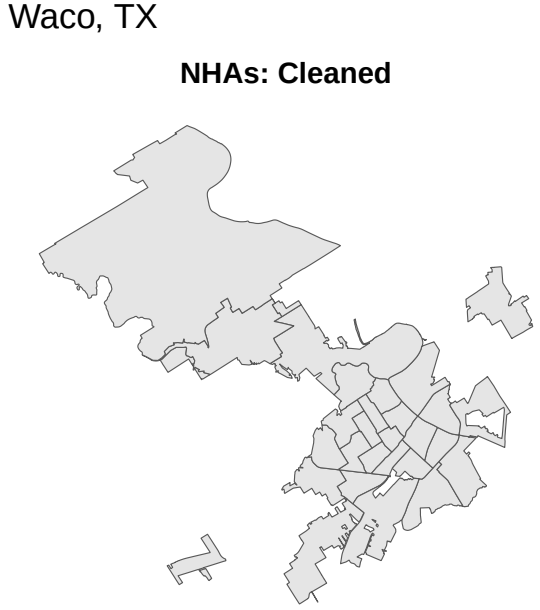
Victorville, CA

Neighborhoods: Cleaned



Waco, TX

Custom city edits: None.

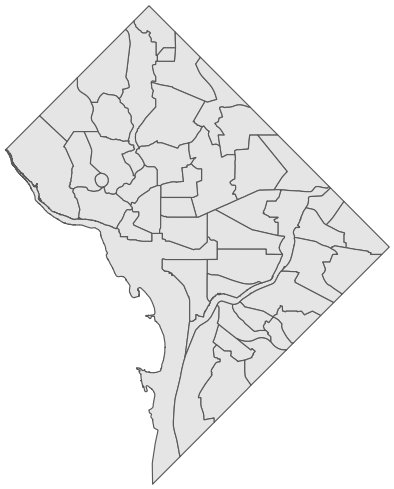


Washington, DC

Custom city edits: None.

Washington, DC

Neighborhoods: Cleaned

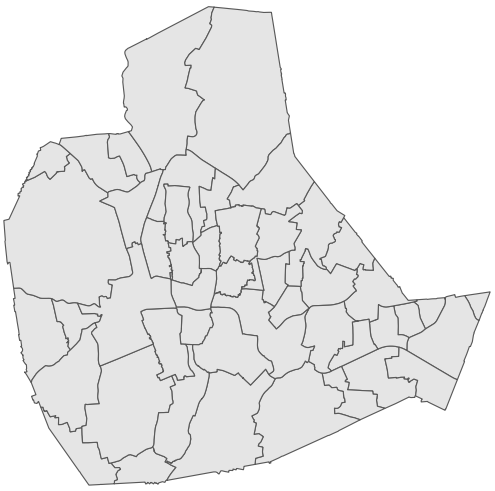


Waterbury, CT

Custom city edits: None.

Waterbury, CT

Neighborhoods: Cleaned



West Covina, CA

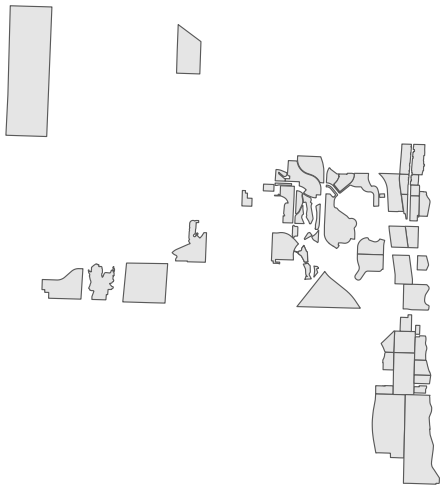
Custom city edits: None.

West Palm Beach, FL

Custom city edits: None.

West Palm Beach, FL

NHAs: Cleaned

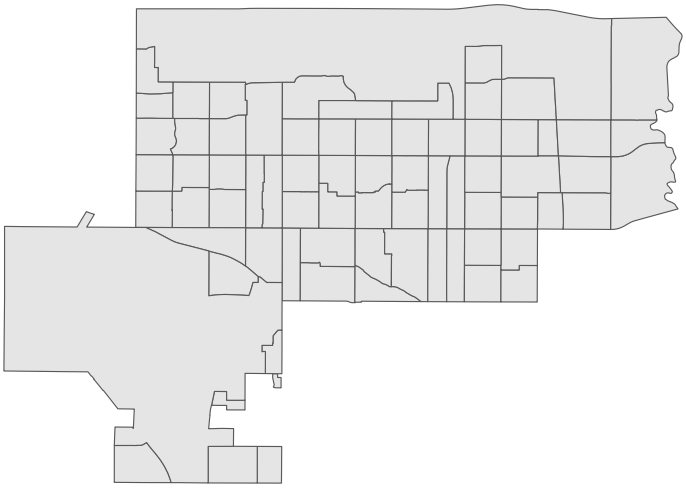


West Valley City, UT

Custom city edits: None.

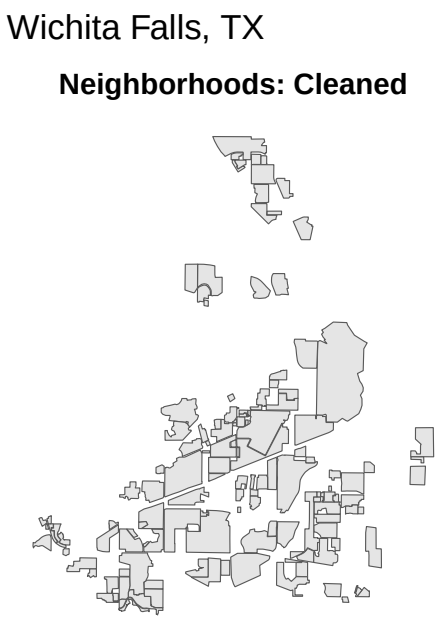
West Valley City, UT

Neighborhoods: Cleaned



Wichita Falls, TX

Custom city edits: None.

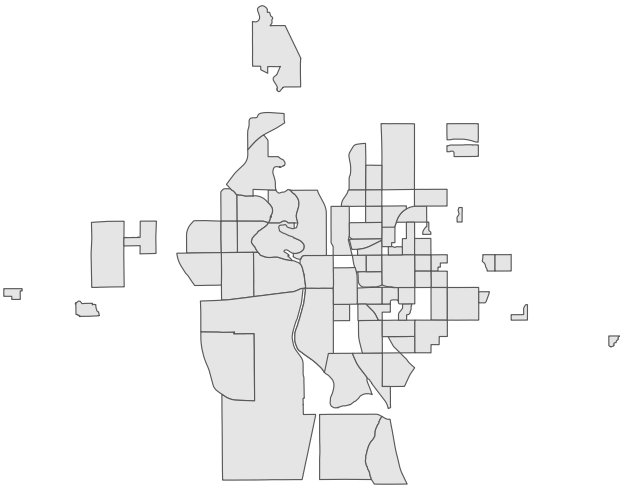


Wichita, KS

Custom city edits: None.

Wichita, KS

NHAs: Cleaned



Wilmington, NC

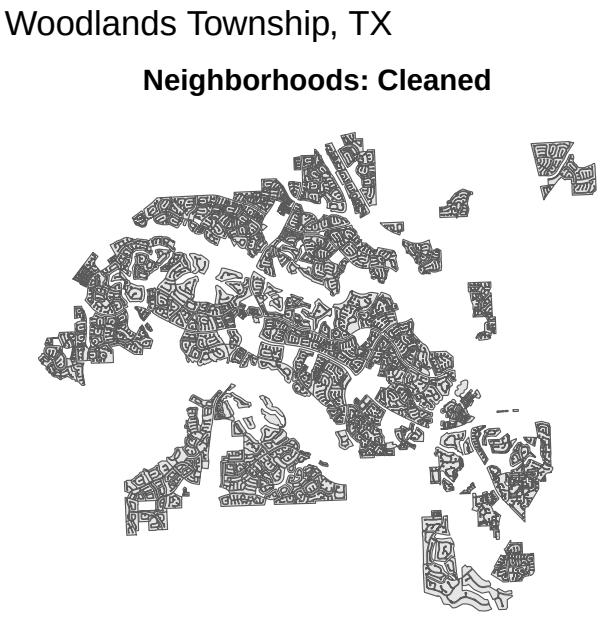
Custom city edits: None.

Wilmington, NC

Neighborhoods: Cleaned

Woodlands Township, TX

Custom city edits: None.

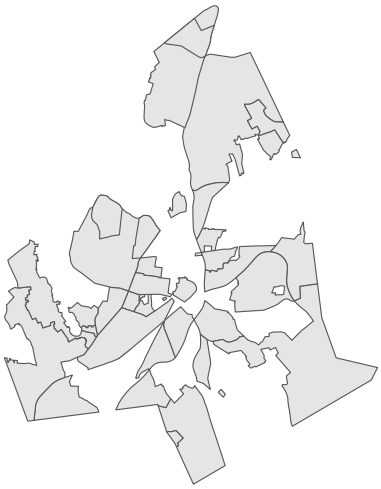


Worcester, MA

Custom city edits: None.

Worcester, MA

NHAs: Cleaned



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