

Erie County Mental Health Treatment Gaps and Barriers Analysis [2019]

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Gaps and Barriers Analysis Overview

The Gaps and Barriers Analysis for Treatment Services in Erie County compares the provision of treatment services within each ZIP code area to selected risk indicators. Gaps are identified where there is a mismatch between the treatment services and risk level (e.g., no/low treatment provision & high risk). First, the distribution of treatment services was evaluated by compiling information about NYS Office of Mental Health (OMH) licensed, funded or certified programs treatment programs and their locations through the OMH website. These data were tallied by ZIP code for each program type.

Maps were developed from these data to evaluate the spatial distribution of programs in Erie County and then to examine existing gaps in service provision against the areas of highest risk. The maps of treatment programs are broken down into five categories that correspond to none, one, a few (2 or 3), some (4 or 5) and many (more than 5). The gaps and barriers analysis for treatment programs compares the highest level of aggregated risk for ZIP codes in Erie County with the number of treatment programs. Risk indicator measures were selected using a World Health Organization (WHO) framework for mental health risk (WHO, 2012). These were summed and re-quartiled for the aggregated risk measure; locations with the highest level of risk are those with aggregated measures falling in the fourth quartiles of either ZIP codes in Erie County Excluding City of Buffalo or ZIP codes in the City of Buffalo Only.

Accessibility was measured using definitions instituted by the U.S. Department of Agriculture Economic Research Service through research on food access. In urban areas, accessibility is defined as being within 1 mile; and in rural areas, within 10 miles. These maps showing ZIP codes of highest risk were derived by creating straight line distance buffers around the geocoded locations of NYS Office of Mental Health (OMH) treatment program locations for both Erie County excluding Buffalo and the City of Buffalo only. These locations included programs from neighboring counties if they were within 10 miles of the Erie County border. Additionally, a series of comparison maps are included to identify changes in accessibility since the last version of this analytical report in 2017.

Gaps and Barriers Analysis Results

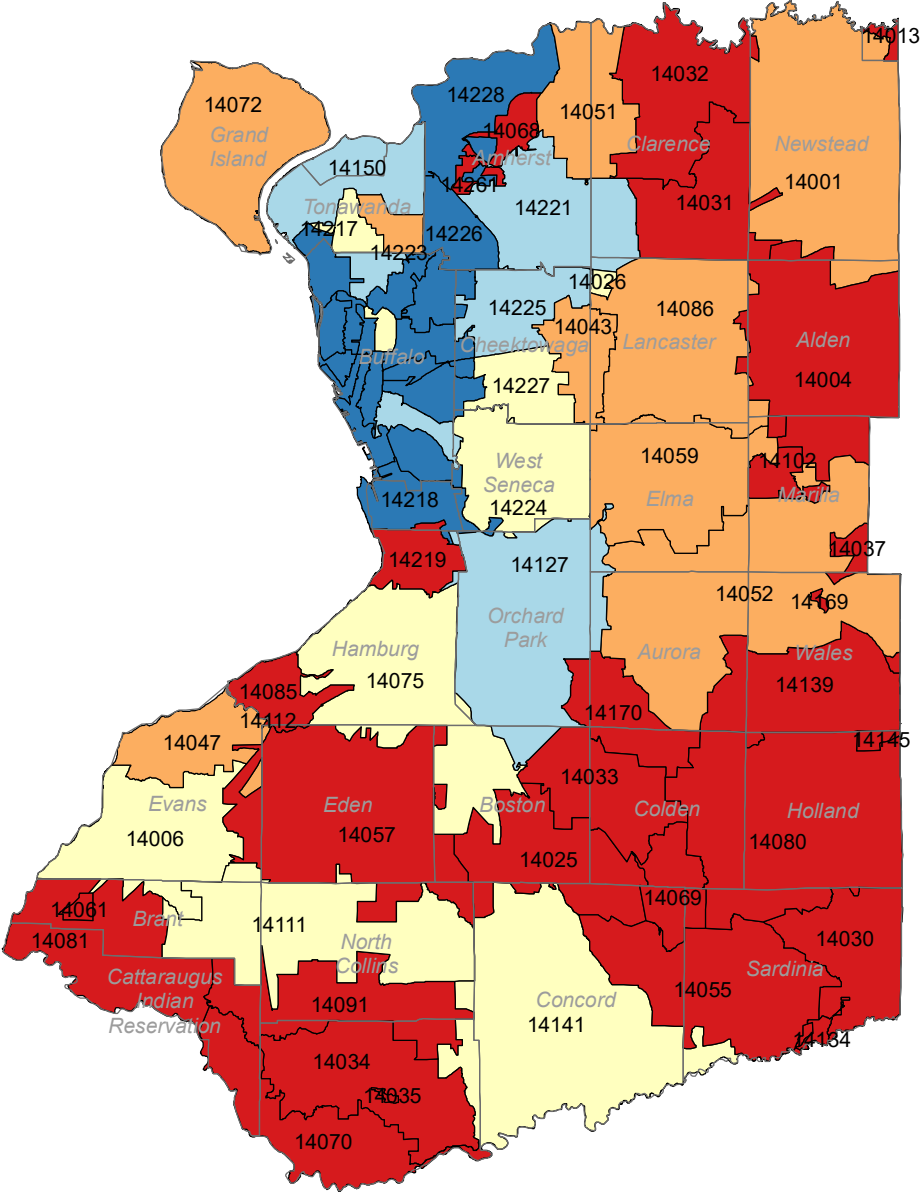
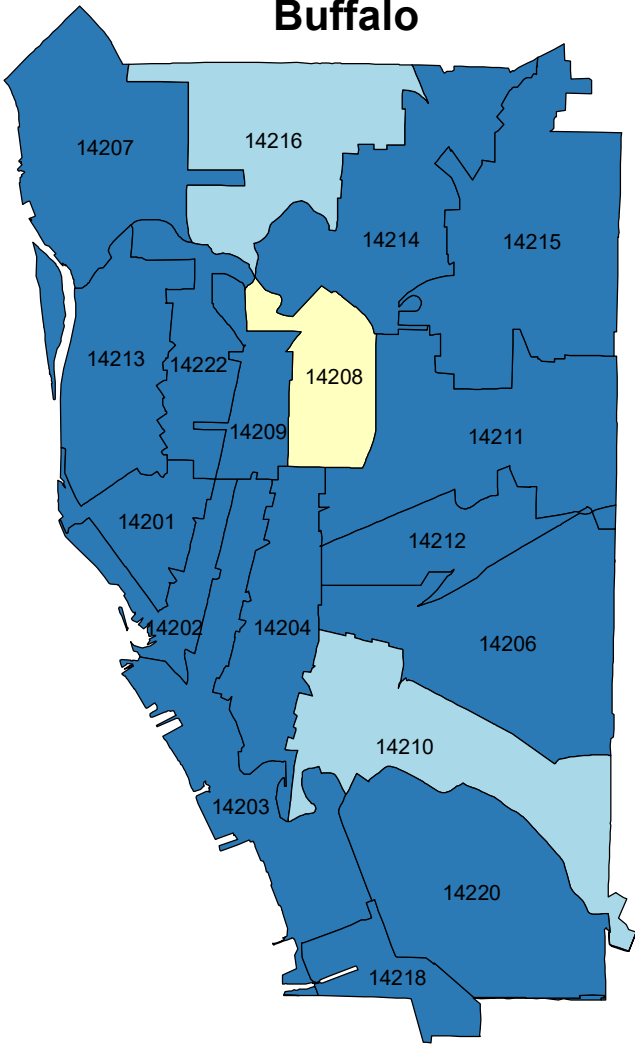
- Descriptive Maps of Treatment Program Locations
 - Treatment programs continue to be concentrated in the more urbanized northwestern portion of Erie County, with many ZIP codes in the rural eastern and southern portions of the county having few or no programs.
 - Many of the ZIP codes in the City of Buffalo contain 4 or more treatment programs
 - Emergency programs are concentrated in the City of Buffalo's East Side, primarily in ZIP Code 14215.
 - Inpatient programs primarily provide coverage within the City of Buffalo, City of Lackawanna and West Seneca.
 - Given their number, the distribution of Outpatient programs is similar to the distribution for all programs.
 - Support programs are concentrated in the City of Buffalo with a few exceptions in more eastern suburban areas and Orchard Park.

- Maps of Highest Risk Locations with Treatment Programs
 - Erie County Excluding City of Buffalo
 - Overall, there is good alignment of coverage in the ZIP Codes with highest risk. There is only one ZIP code (14219, northern Hamburg) that is lacking in any mental health treatment programming though there is a concentration in the adjacent ZIP code (14218) in Lackawanna. Several ZIP Codes around Hamburg, Evans, Kenmore, West Seneca, and Cheektowaga have available but limited programming while Depew similarly have only one program. The remaining areas of highest risk have more substantial levels of services available with 4 or more programs.
 - Emergency, inpatient, and support programs are concentrated mostly in the City of Buffalo. There are a few areas in the eastern first ring suburbs around Cheektowaga and Depew as well as Lackawanna that have some support programs while West Seneca and Lackawanna have one inpatient program available in each. However, overall coverage for these program types is poor outside of the city.
 - There is relatively good coverage of outpatient programs in many areas of the County, however Depew and northern Hamburg (14219) presently lack any outpatient program coverage.
 - City of Buffalo Only
 - Overall, there is good coverage for mental health programs with all of the highest risk ZIP Codes in the city having more than five programs.
 - The alignment of emergency and inpatient programs within the city to areas of highest risk is generally poor. The highest concentrations of these types of programs are in ZIP Code 14215 on the East Side, while ZIP Codes 14211 and 14212 (also on the East Side) are lacking in any direct coverage of either program type. Part of downtown Buffalo (14203) has some coverage for emergency but not inpatient programs.
 - Overall coverage of outpatient and support programs is very good within the city, with all highest risk locations having greater than 2 programs.
- Accessibility Maps
 - Erie County Excluding City of Buffalo
 - Overall access to mental health programs, as well as outpatient programs is excellent with total coverage for all locations covered within a 10 mile radius. All highest risk ZIP Codes have access to programs within ten miles, including access to programs outside of Erie County.
 - Accessibility to inpatient and support programs is well aligned to areas of highest risk. Portions of the town of Evans are lacking access to inpatient and support programs. Nearly all first ring suburb areas with highest risk have access to emergency programs within ten miles though other areas of highest risk (Hamburg and Evans) are lacking access within this distance.
 - City of Buffalo Only

- Overall coverage in the city is good, with the southern half of ZIP Code 14203 lacking access to any program type within one mile.
 - Access to emergency and inpatient programs are concentrated around portions of northeast and central parts of the city. Portions of ZIP Codes 14215 and 14211 have access to these programs, as well as extreme northern parts of ZIP Codes 14203. The remainder of these areas are without access within one mile.
 - Access to outpatient and support programs is well aligned to highest risk areas, with only the southern half of ZIP Code 14203 having a lack of access. A relatively small portion of ZIP Code 14211 also lacks access to outpatient programs within one mile while the eastern part of 14215 is lacking access to support programs.
- Programs by Age
 - Coverage of areas for mental health programs by age is good overall and aligns to the distribution of populated areas within the County. The City of Buffalo is fully covered in all ZIP codes with access to programs across all ages. A majority of locations in the eastern rural portions of the county lack access, but coverage in the northeastern and southwestern portions of the county is generally good.
- Change in Accessibility Maps (2017 to 2019)
 - Erie County Excluding City of Buffalo
 - Overall access to all mental health programs as well as outpatient programs have increased to full coverage throughout the county since 2017.
 - Accessibility to inpatient and emergency programs has stayed nearly consistent across the two time periods and continues to be well aligned to most areas of highest risk.
 - Support programs appear to have some reduction in county-level coverage since 2017, however a portion of these reductions appear to be the result of the loss or movement of this type of program in an adjacent county.
 - City of Buffalo Only
 - Overall coverage in the city has increased since 2017 with the addition of coverage across South Buffalo and in the northern portion of the City with only a small reduction in coverage in 14218 which is mostly contained in Lackawanna. This pattern also persists for Outpatient programs.
 - Access to emergency programs has increased in the center of the City of Buffalo, improving access for downtown and especially parts of the highest risk ZIP code 14203.
 - Inpatient programs remain nearly identical to their coverage from 2017.
 - Support programs have seen an expansion in coverage since 2017, primarily in 14207 (Riverside) and 14220 (South Buffalo) with small reductions in coverage access in parts of 14216 (North Buffalo) and a sliver of area in 14206 on the East Side.

Erie County Mental Health Treatment Programs: All Programs and Types

Buffalo



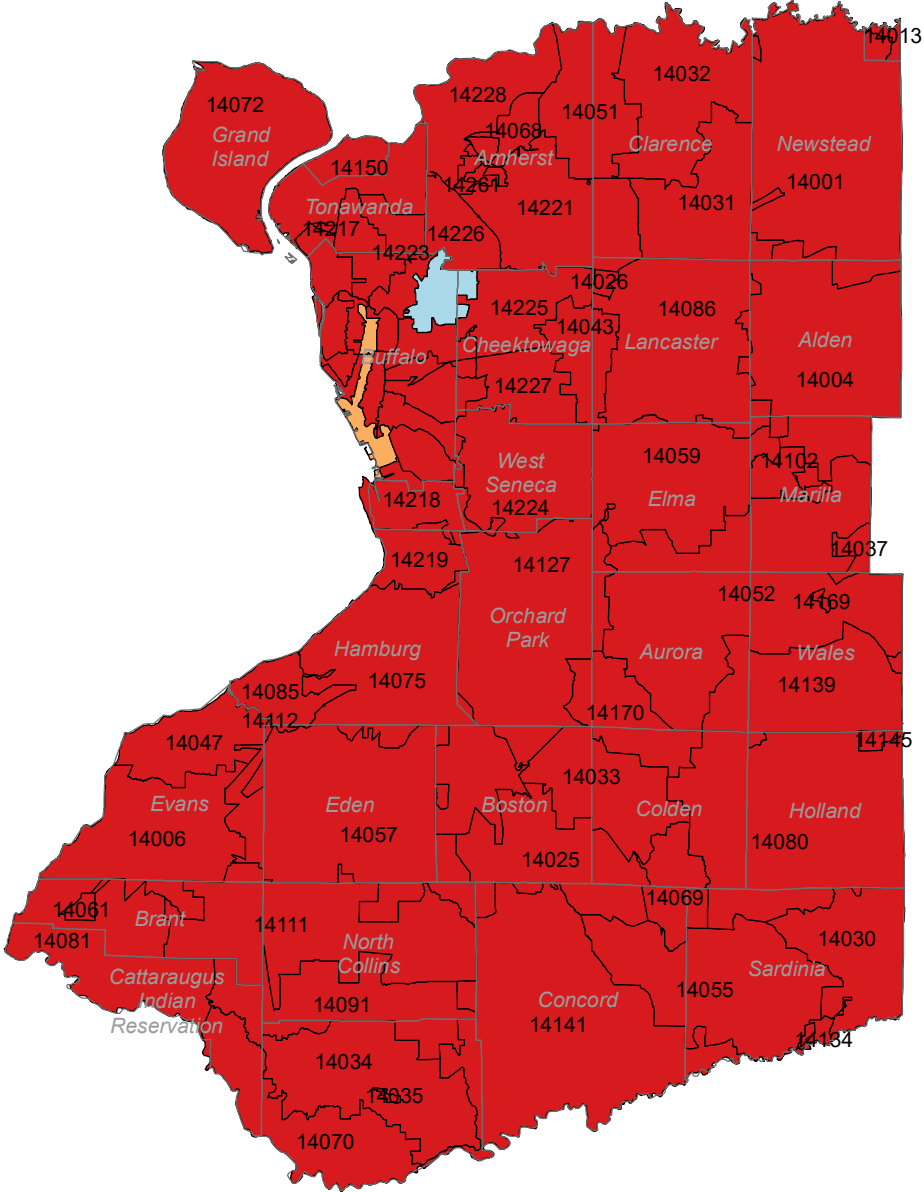
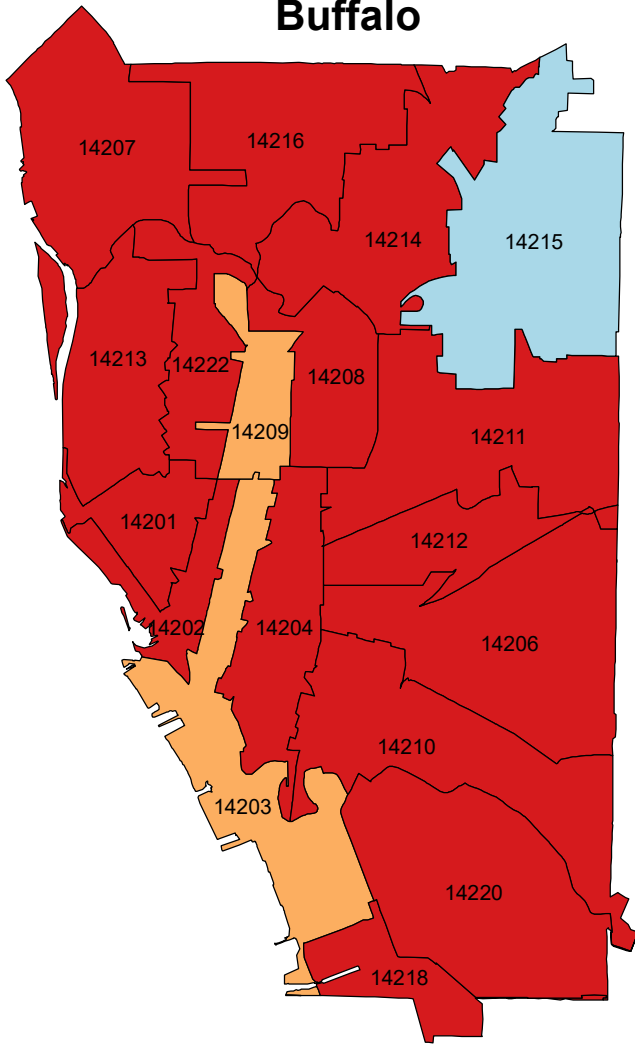
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)



Erie County Mental Health Treatment Programs: Emergency Programs

Buffalo

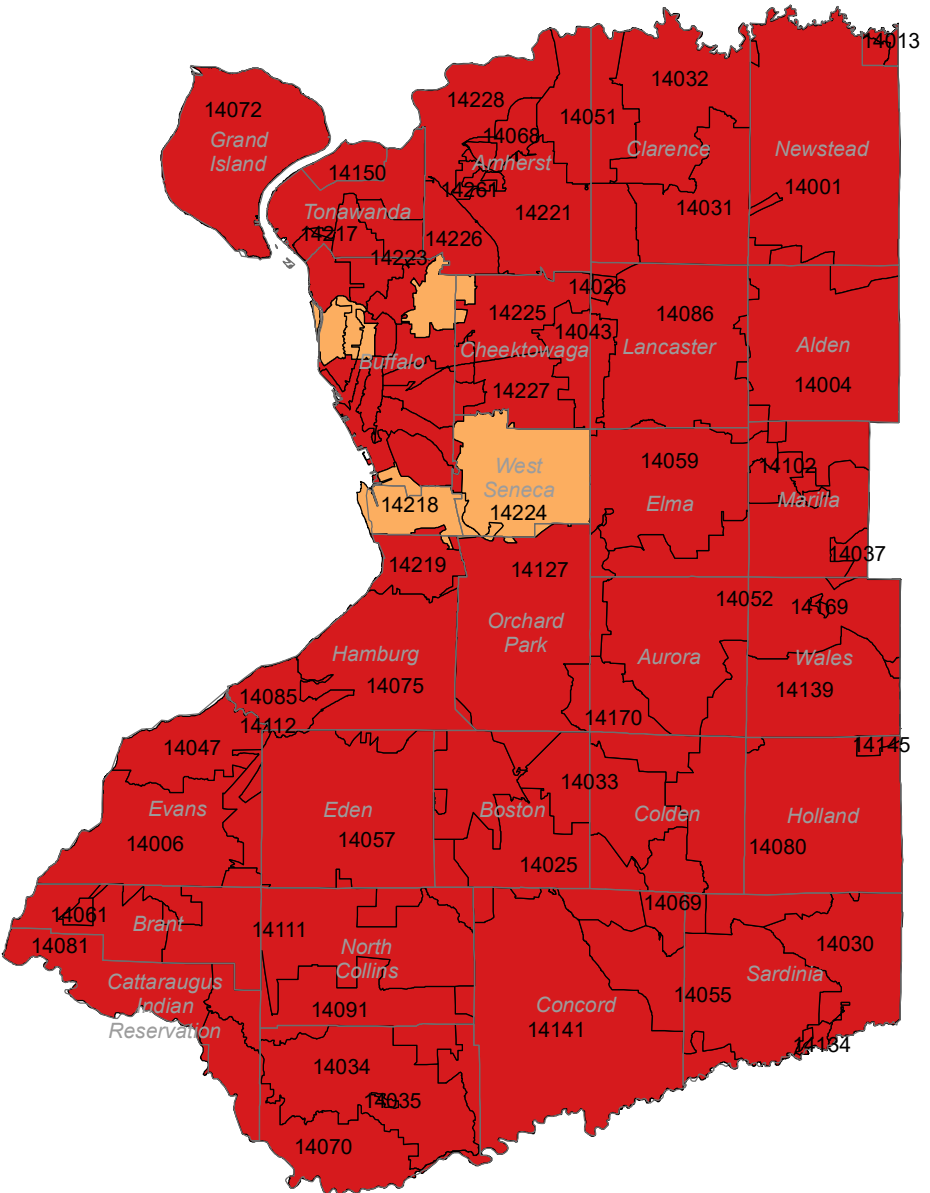
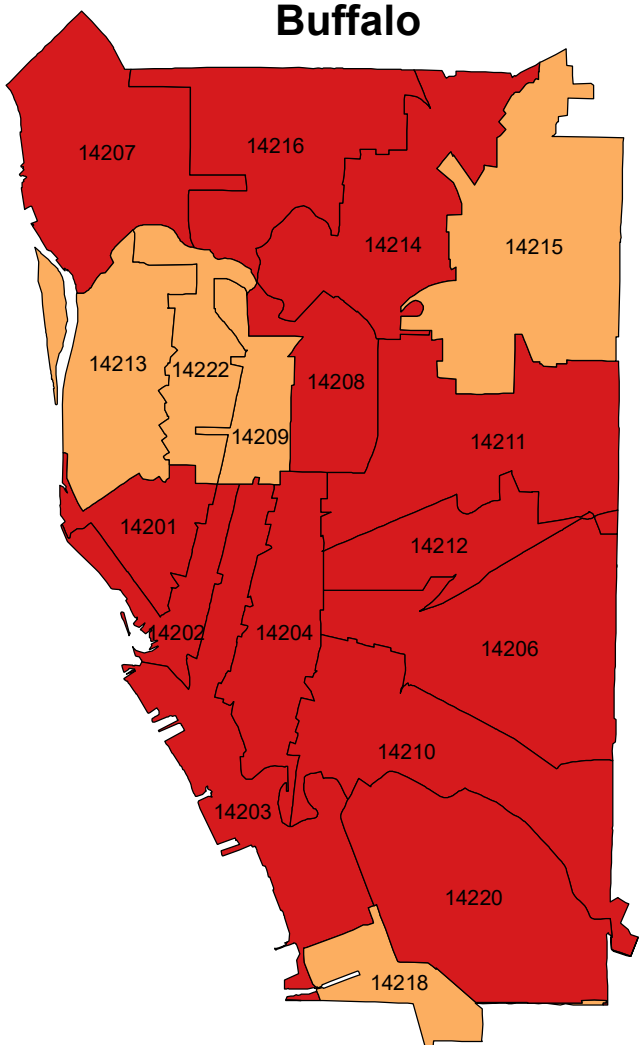


Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)



Erie County Mental Health Treatment Programs: Inpatient Programs



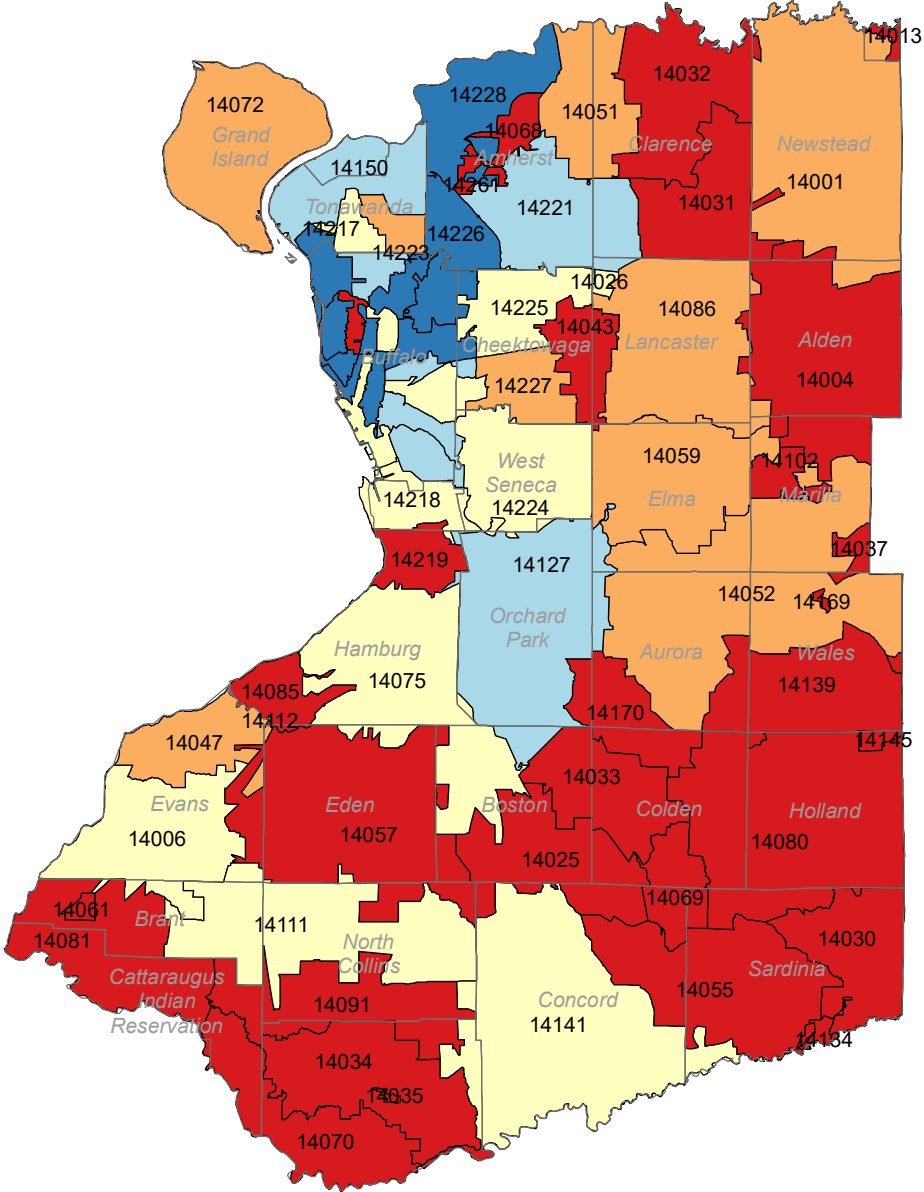
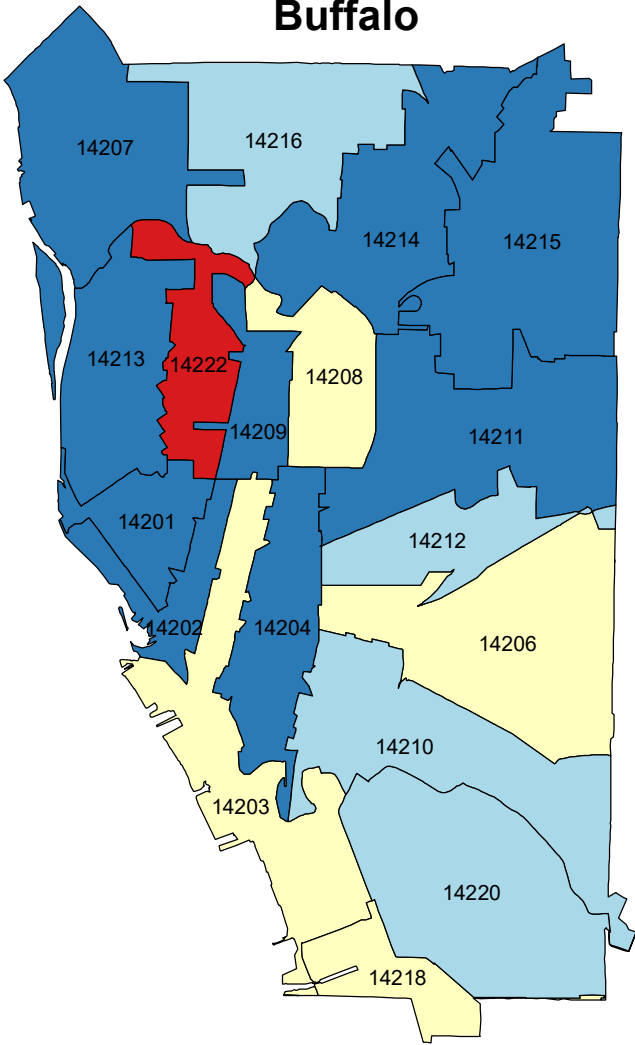
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)



Erie County Mental Health Treatment Programs: Outpatient Programs

Buffalo



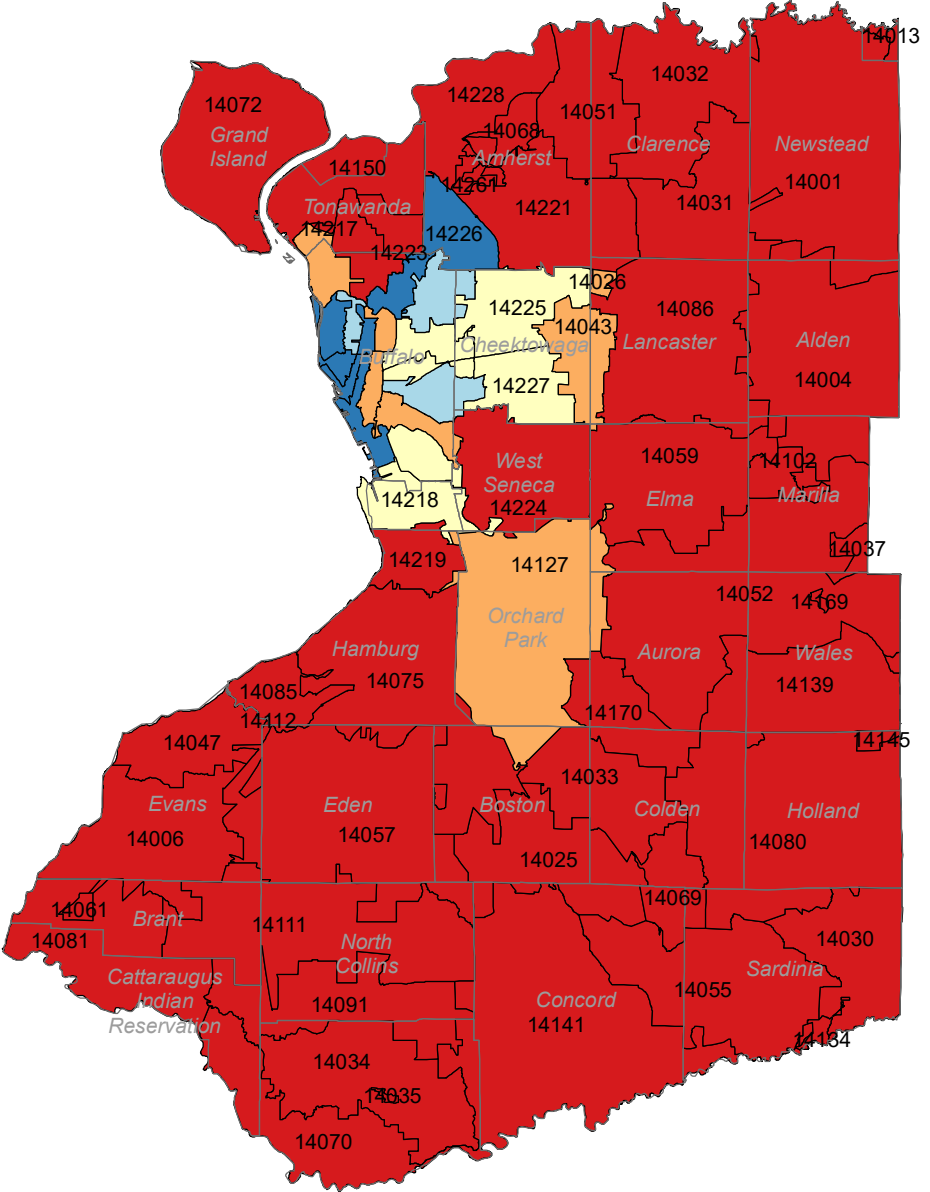
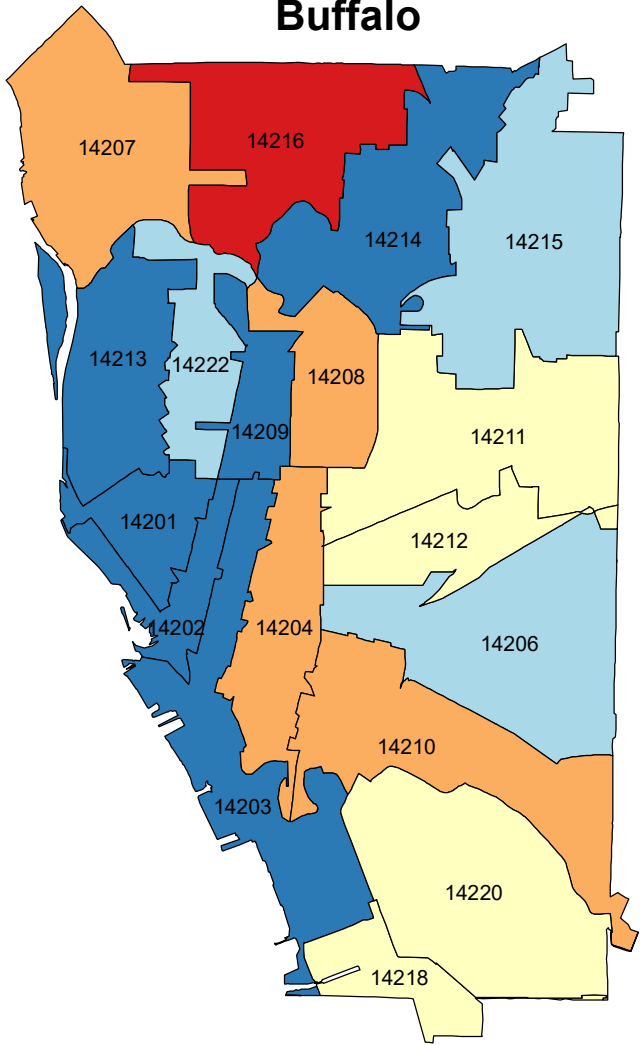
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)



Erie County Mental Health Treatment Programs: Support Programs

Buffalo



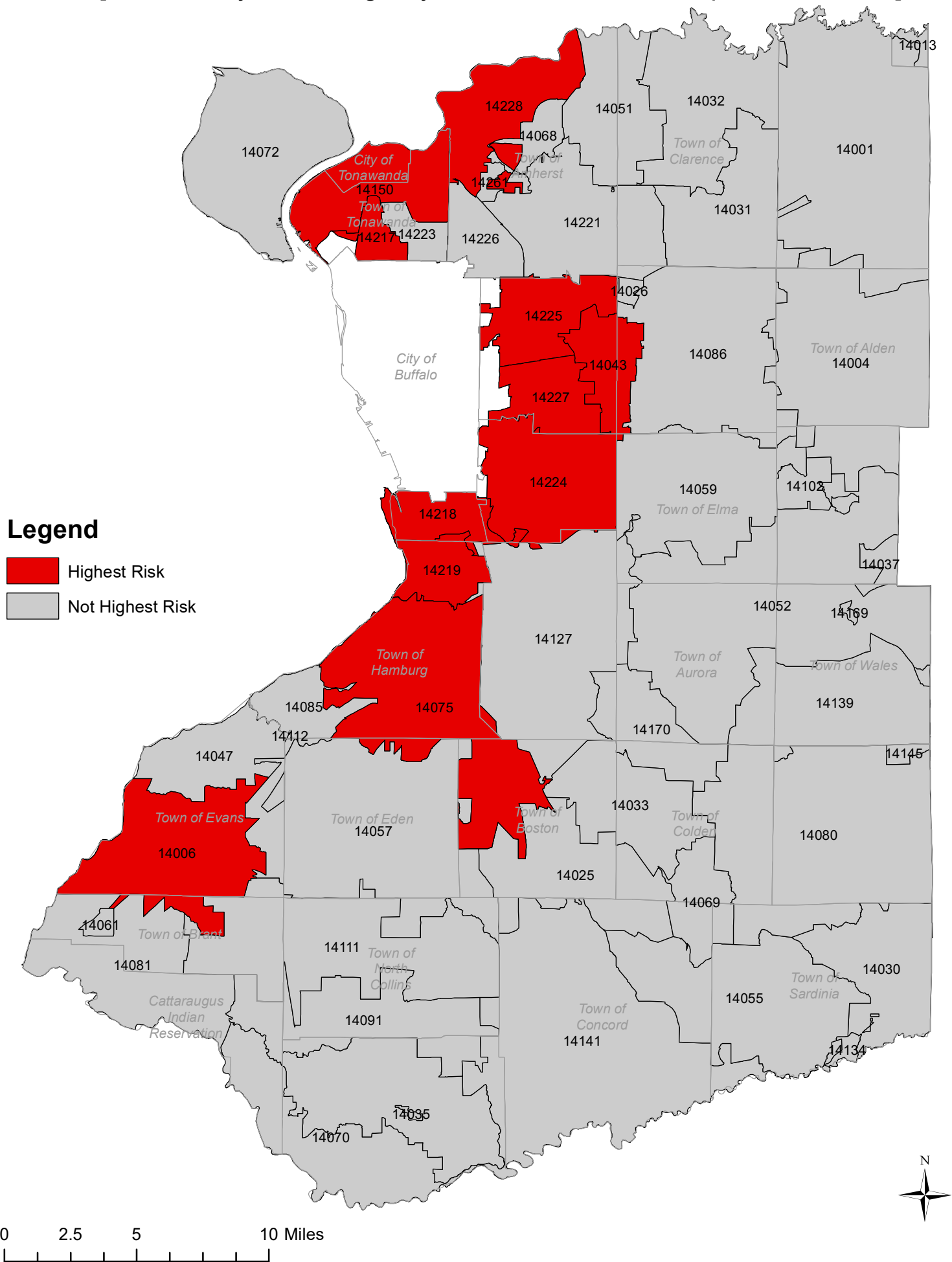
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- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)

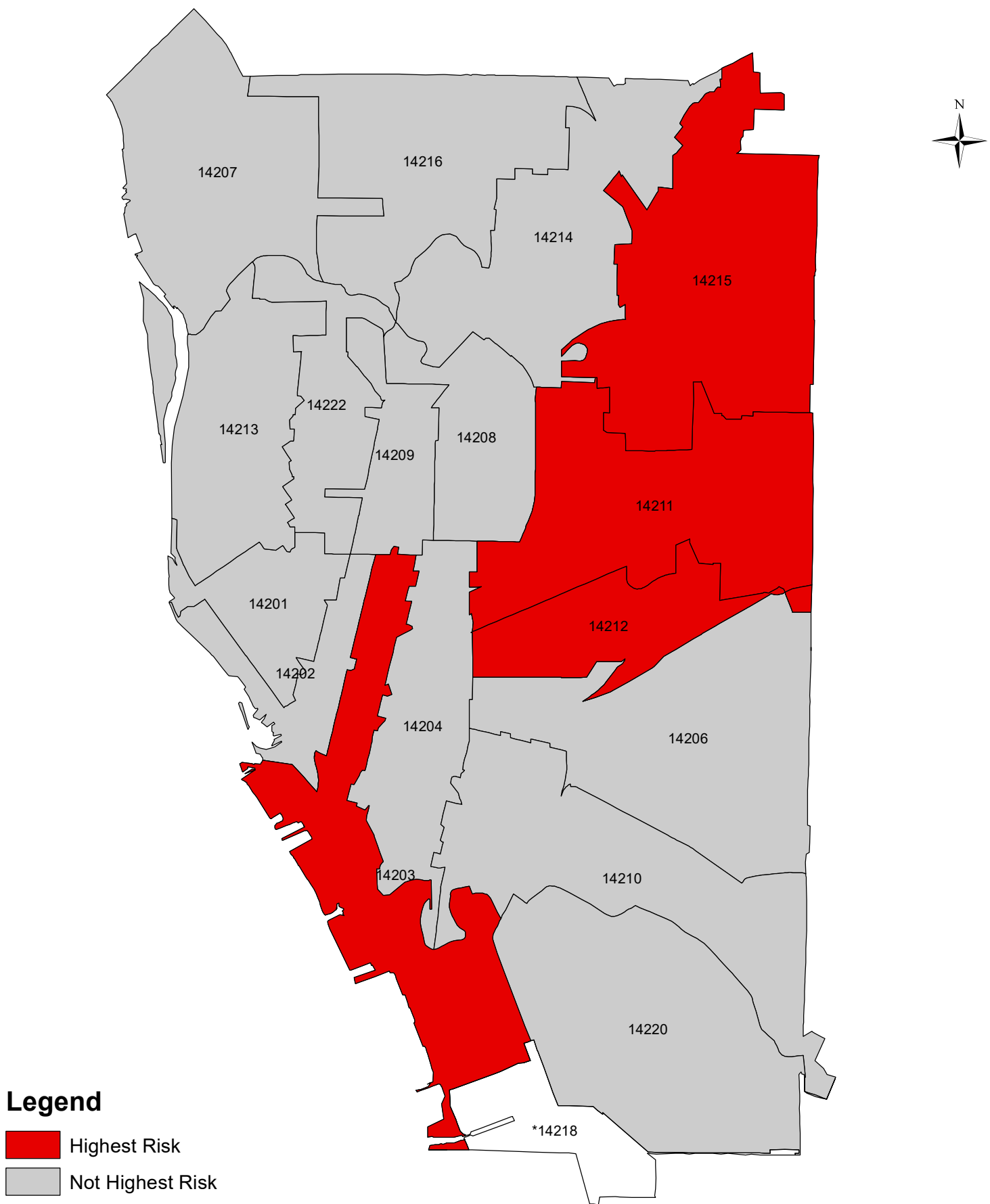


ZIP Codes with Highest Level of Aggregated Risk

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



ZIP Codes with Highest Level of Aggregated Risk [City of Buffalo Only]



Legend

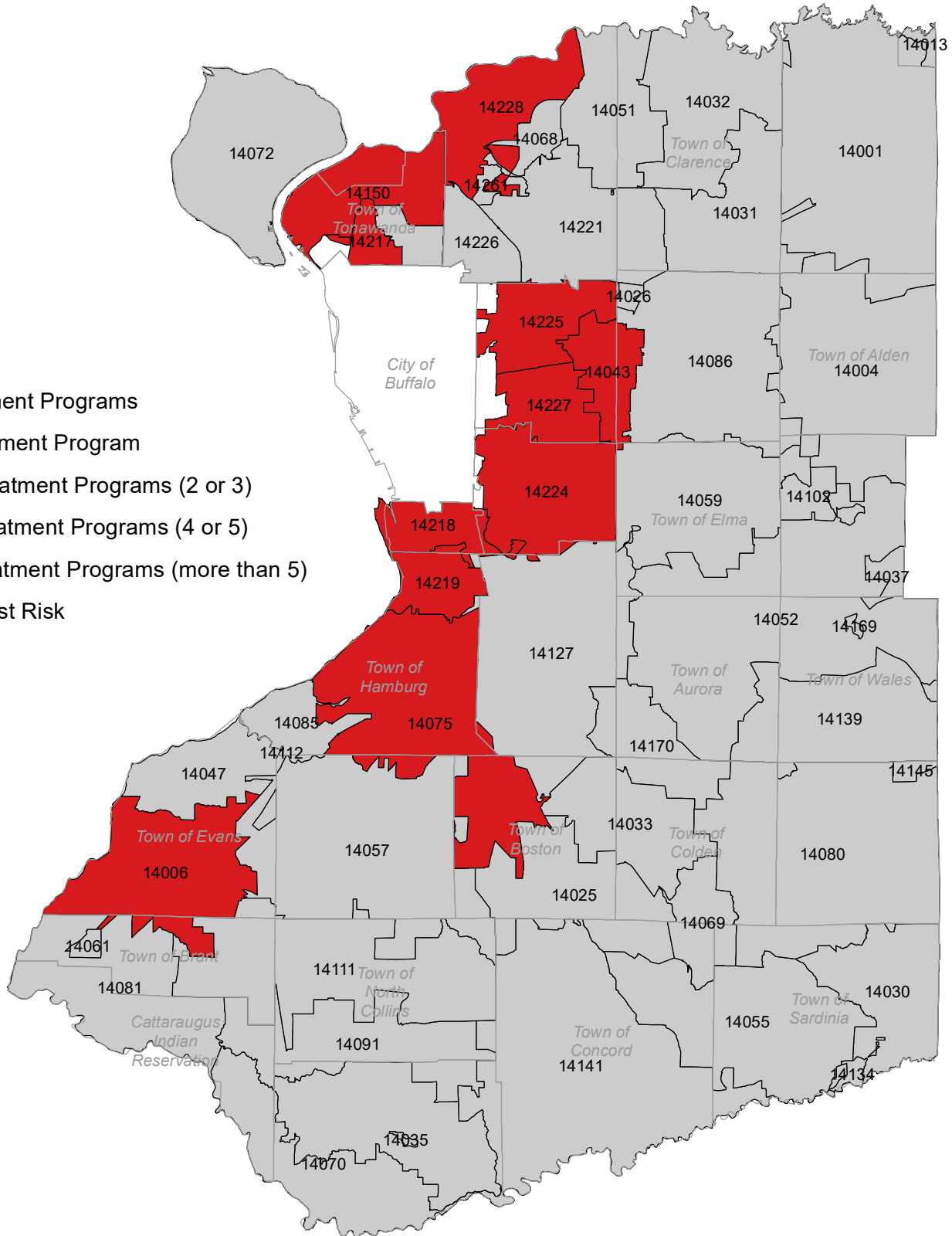
- Highest Risk
- Not Highest Risk

0 0.5 1 2 Miles

*The majority of Zip Code 14218 is outside the City of Buffalo

ZIP Codes with Highest Level of Aggregated Risk by Number of Emergency Programs

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



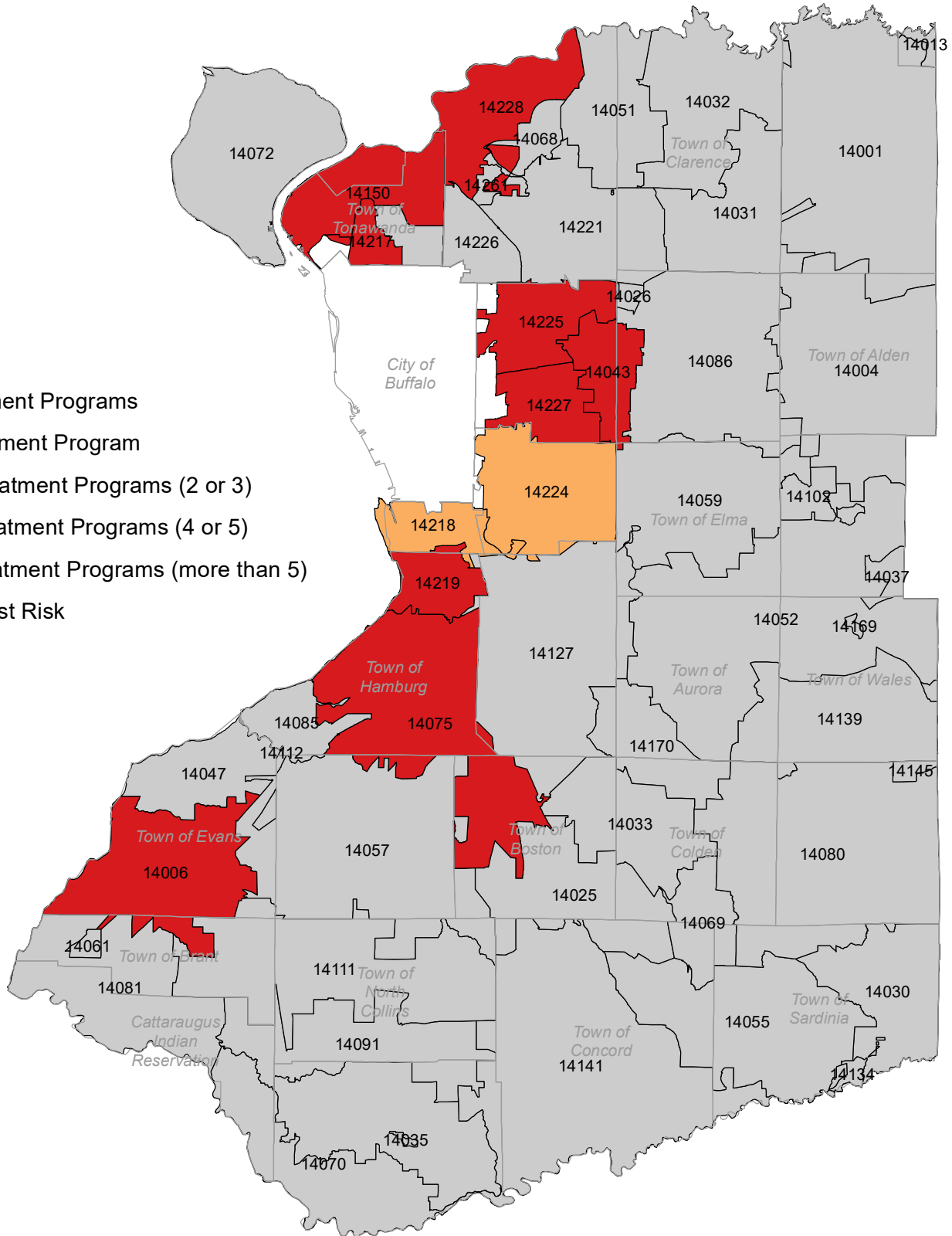
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk



ZIP Codes with Highest Level of Aggregated Risk by Number of Inpatient Programs

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



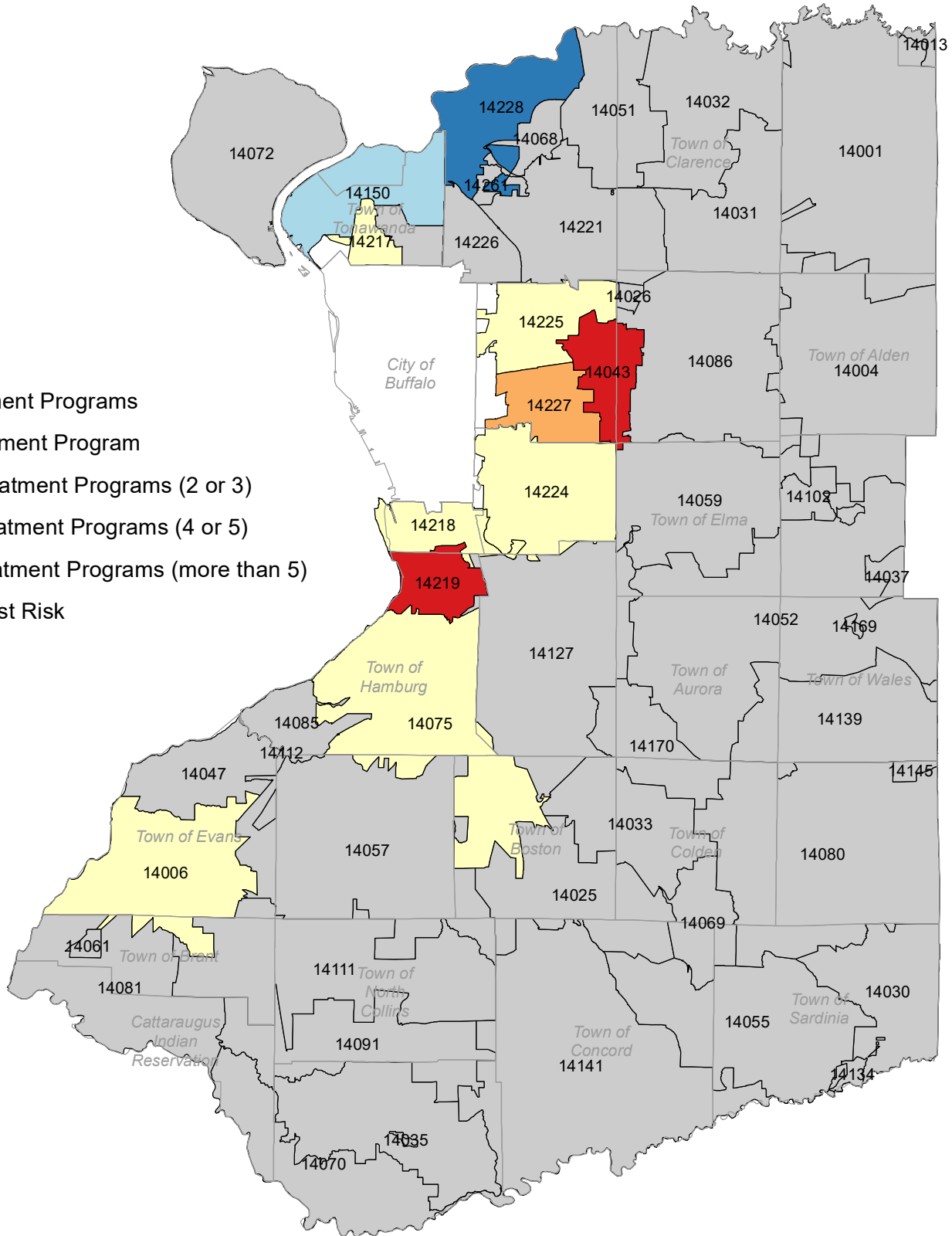
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk



ZIP Codes with Highest Level of Aggregated Risk by Number of Outpatient Programs

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



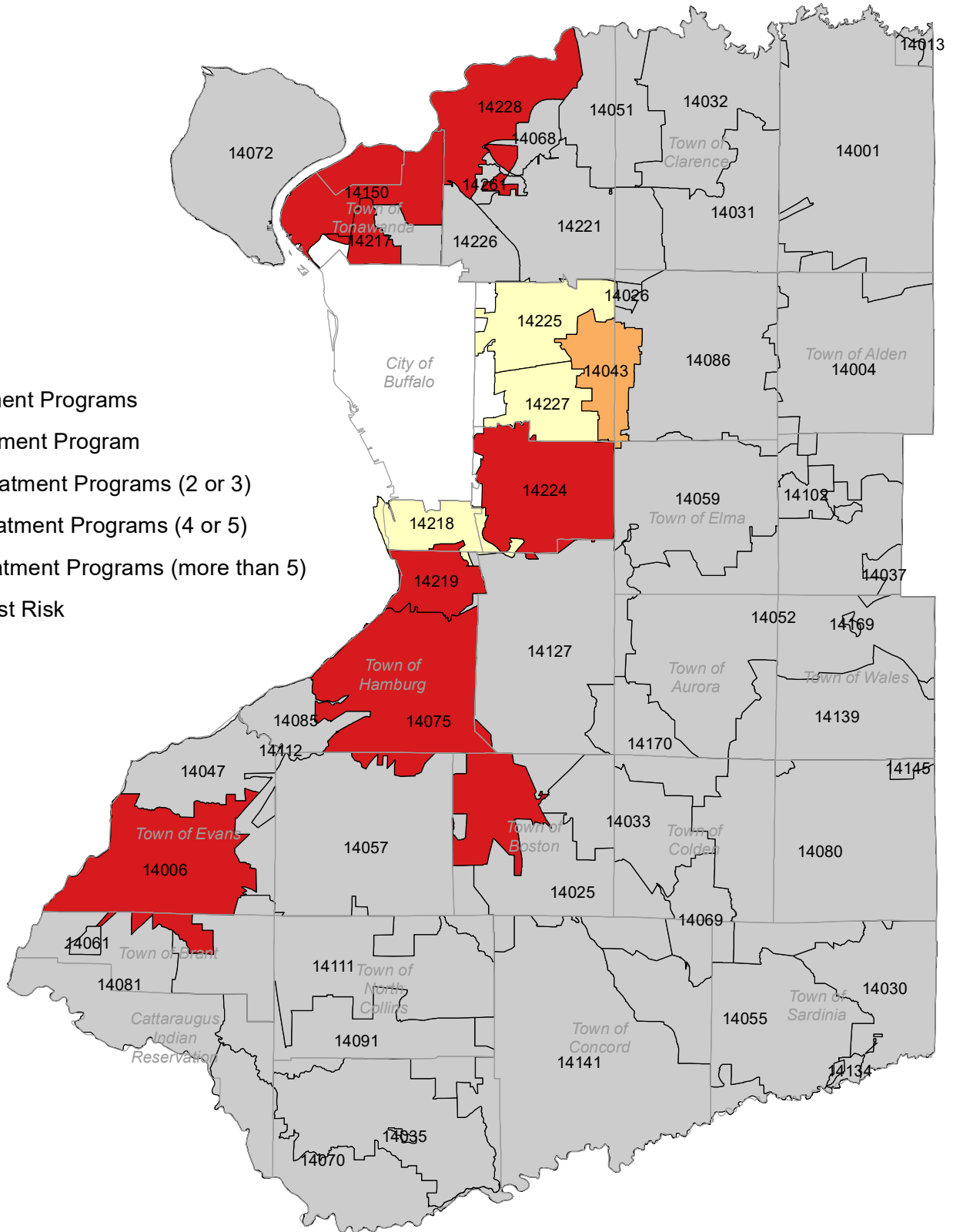
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk



ZIP Codes with Highest Level of Aggregated Risk by Number of Support Programs

[Erie County Excluding City of Buffalo, with Municipal Boundaries]

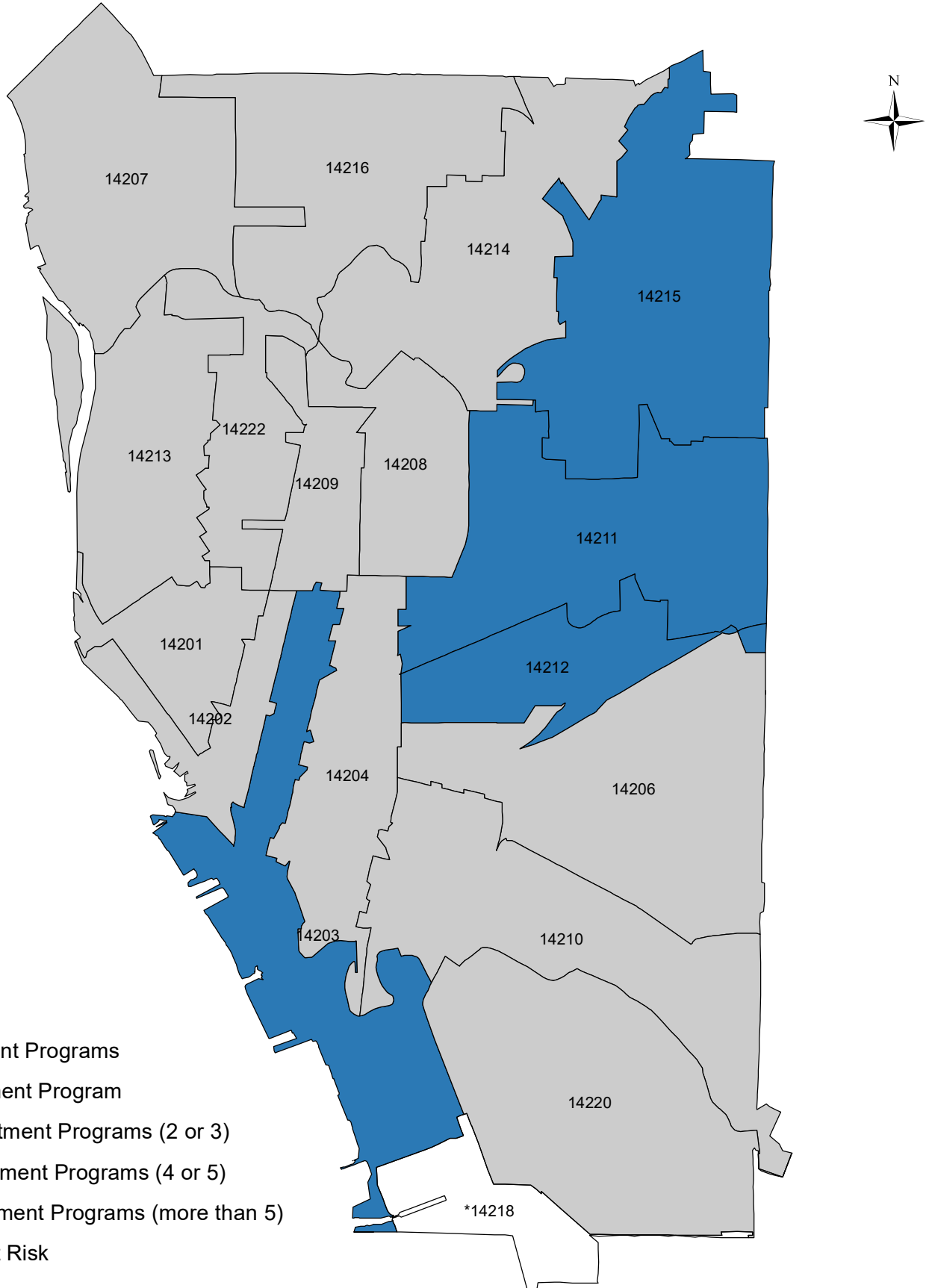


Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk



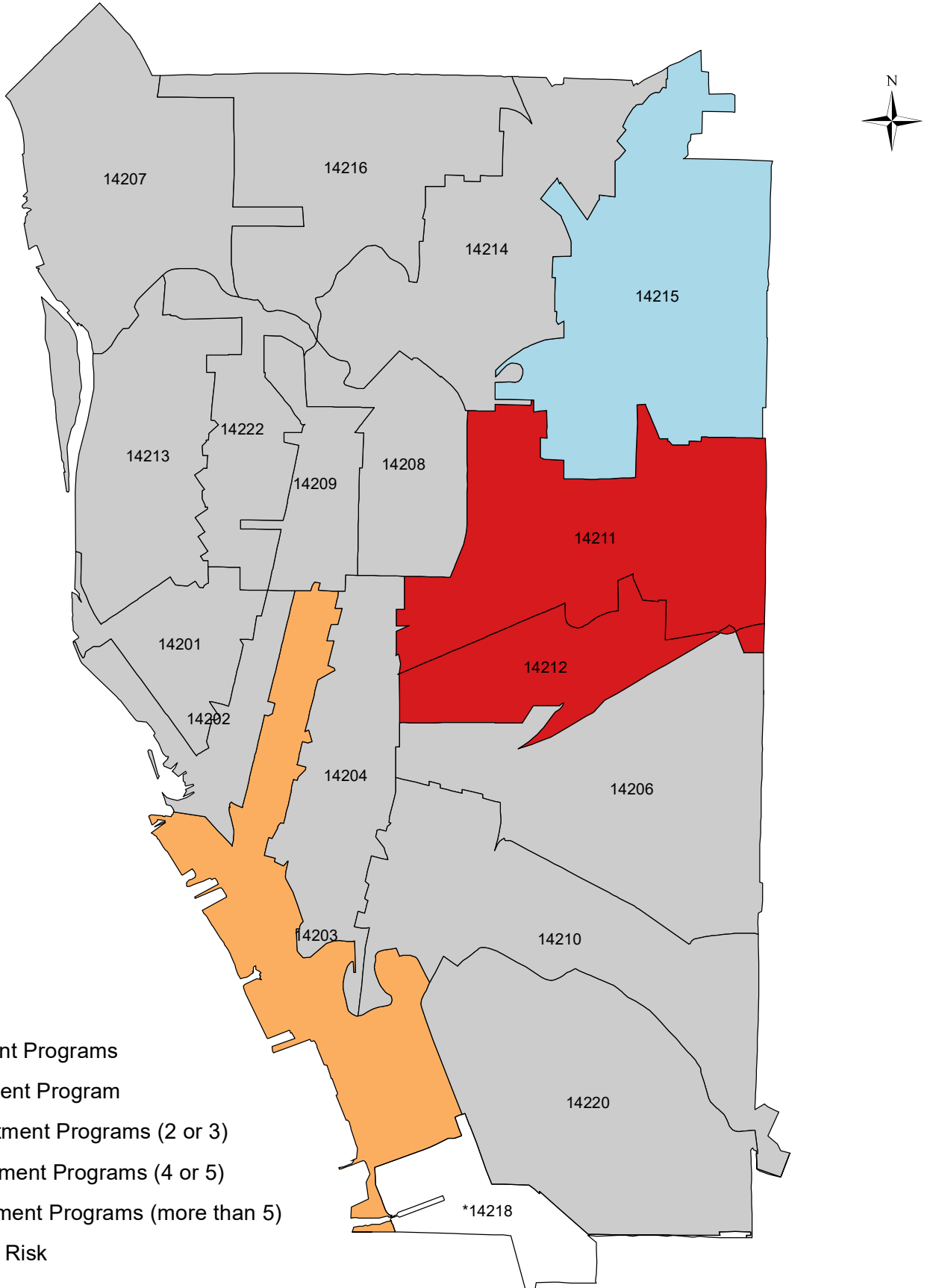
ZIP Codes with Highest Level of Aggregated Risk by Number of Mental Health Treatment Programs [City of Buffalo Only]



0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

ZIP Codes with Highest Level of Aggregated Risk by Number of Emergency Programs [City of Buffalo Only]



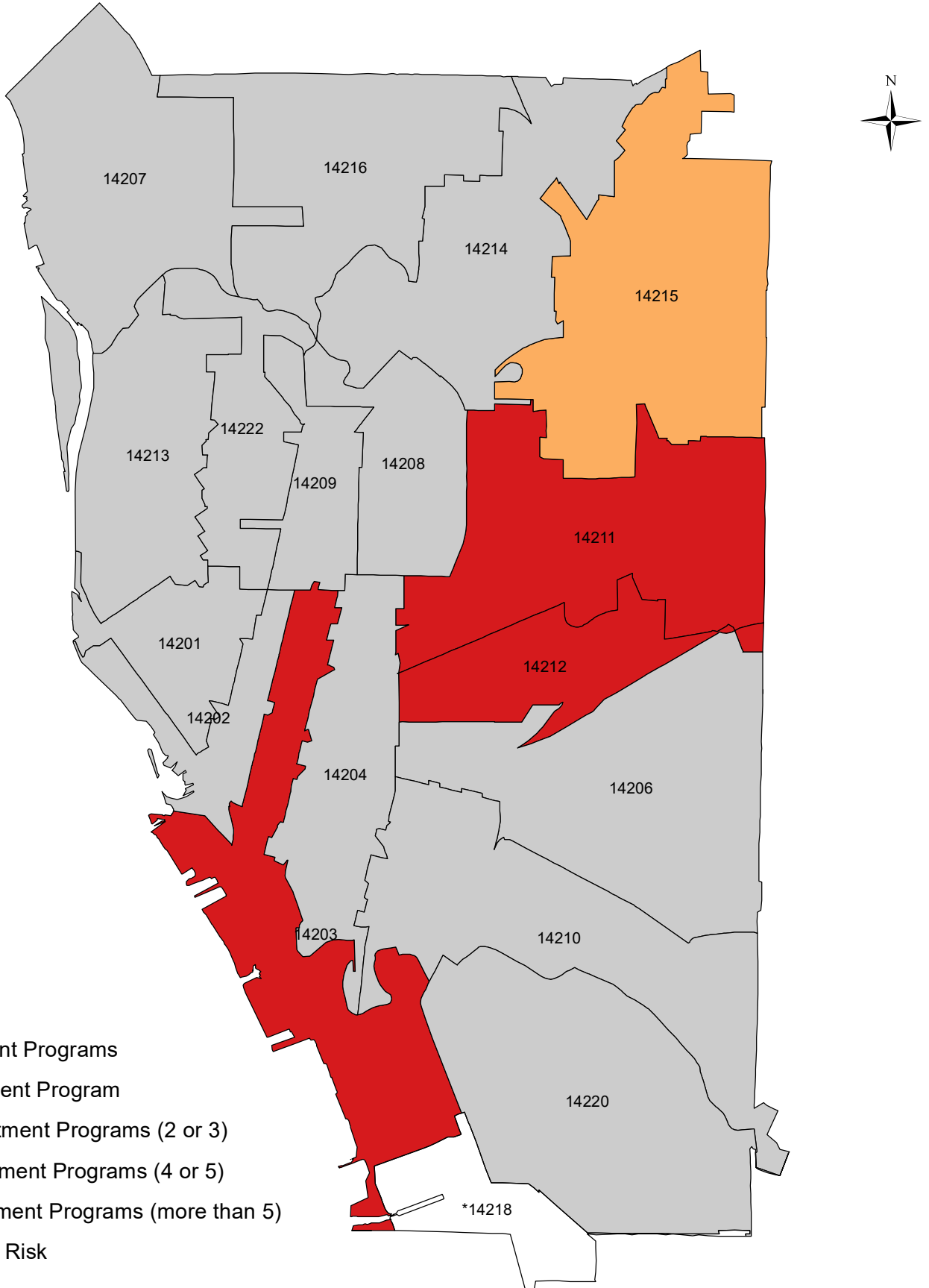
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk

0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

ZIP Codes with Highest Level of Aggregated Risk by Number of Inpatient Programs [City of Buffalo Only]



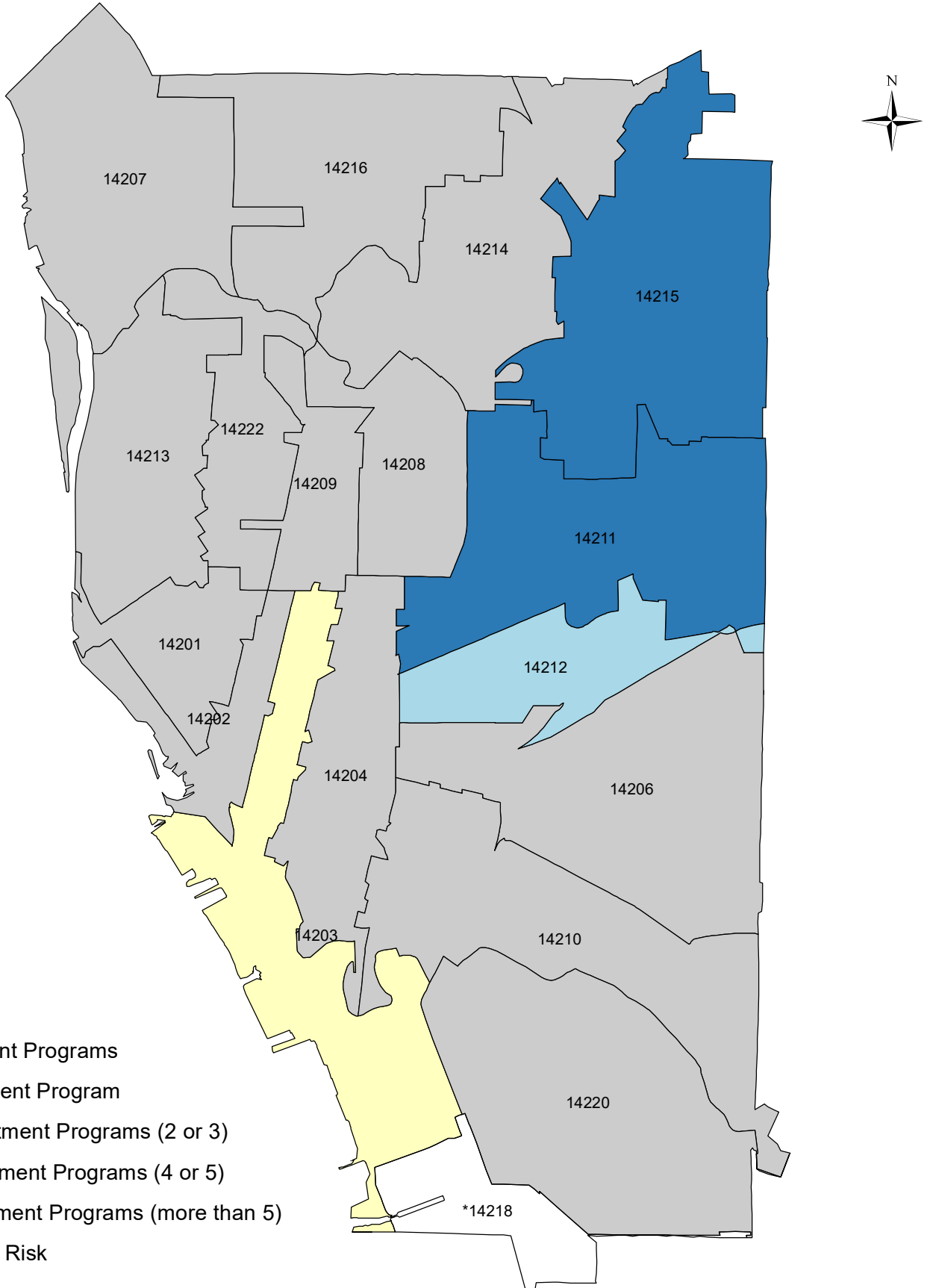
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk

0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

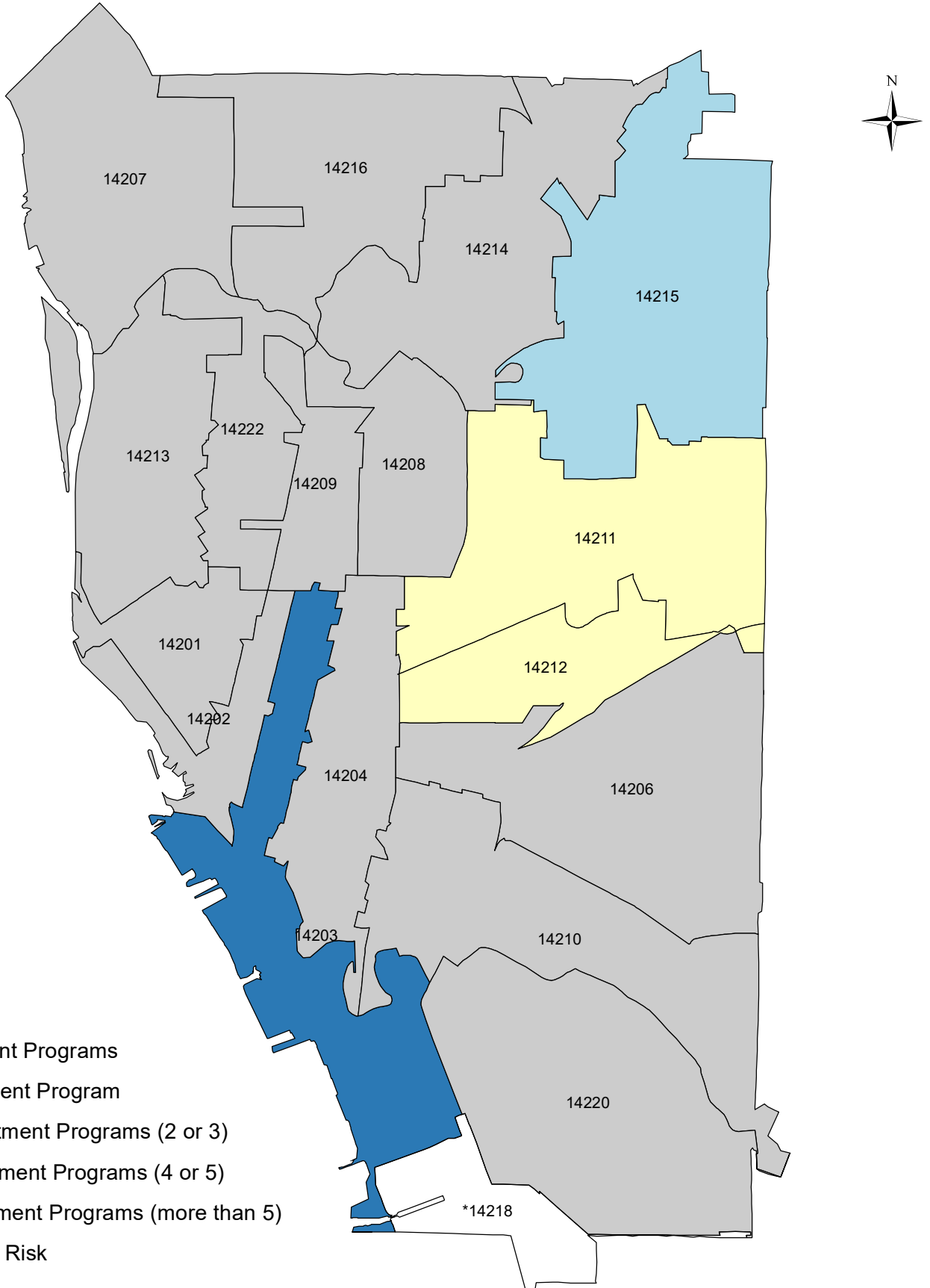
ZIP Codes with Highest Level of Aggregated Risk by Number of Outpatient Programs [City of Buffalo Only]



0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

ZIP Codes with Highest Level of Aggregated Risk by Number of Support Programs [City of Buffalo Only]



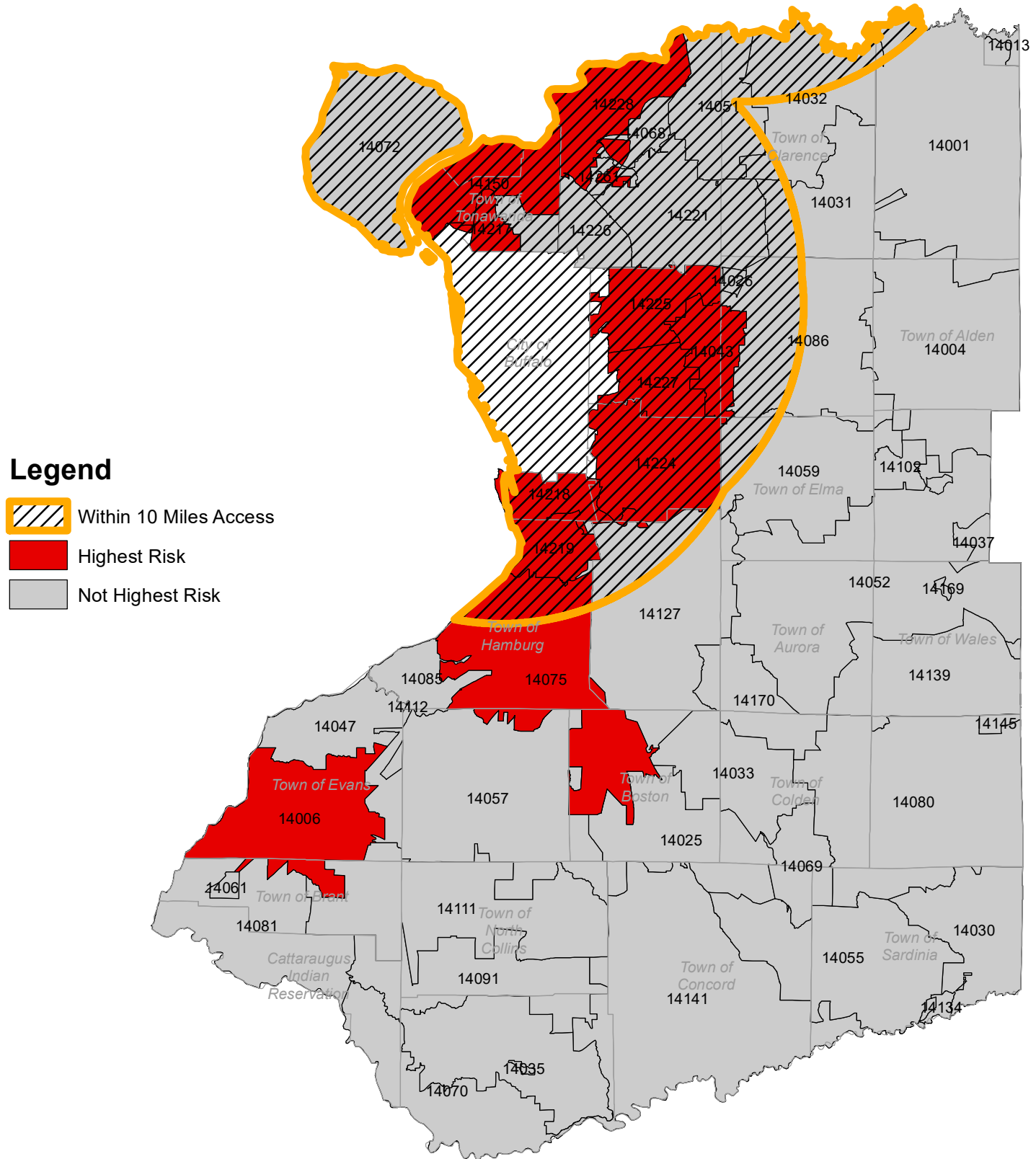
Legend

- No Treatment Programs
- One Treatment Program
- A Few Treatment Programs (2 or 3)
- Some Treatment Programs (4 or 5)
- Many Treatment Programs (more than 5)
- Not Highest Risk




0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Accessibility to Emergency Programs (Within 10 Miles Access, Includes Out of County Programs) [Erie County Excluding City of Buffalo, with Municipal Boundaries]



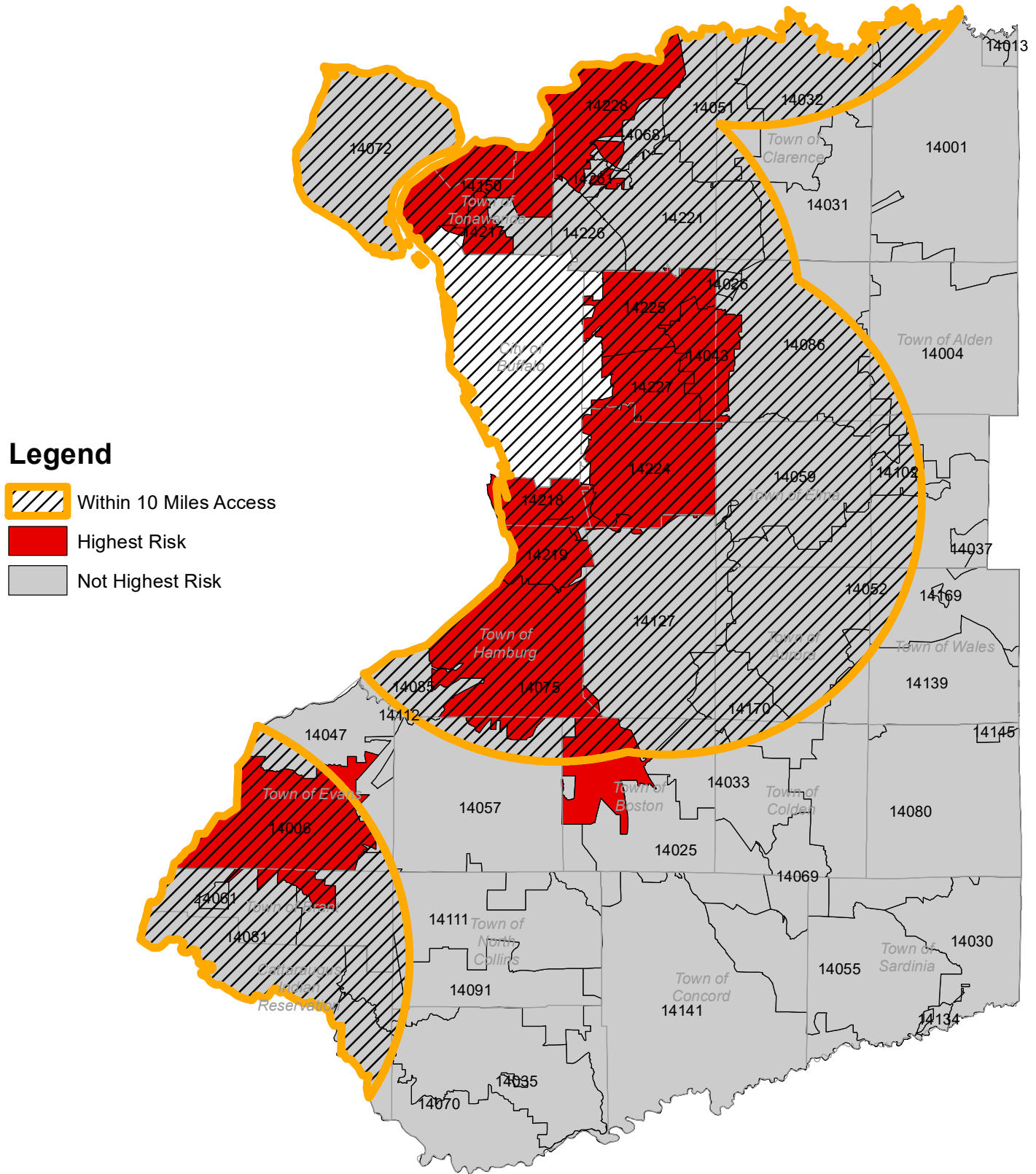
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-  Within 10 Miles Access
-  Highest Risk
-  Not Highest Risk




0 3 6 12 Miles



Accessibility to Inpatient Programs (Within 10 Miles Access, Includes Out of County Programs) [Erie County Excluding City of Buffalo, with Municipal Boundaries]






Legend

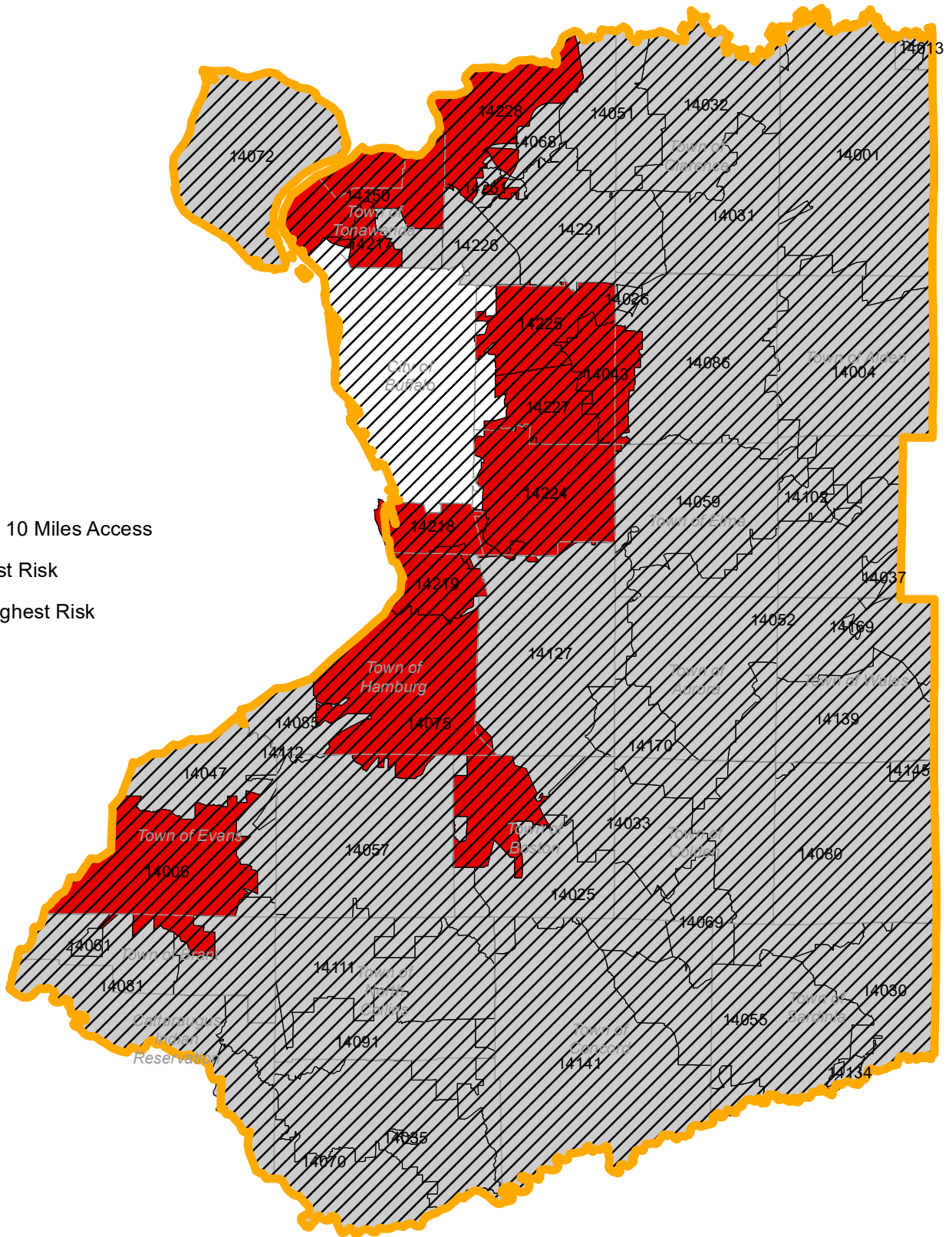
-  Within 10 Miles Access
-  Highest Risk
-  Not Highest Risk



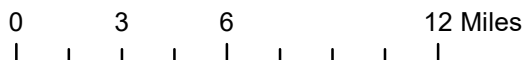
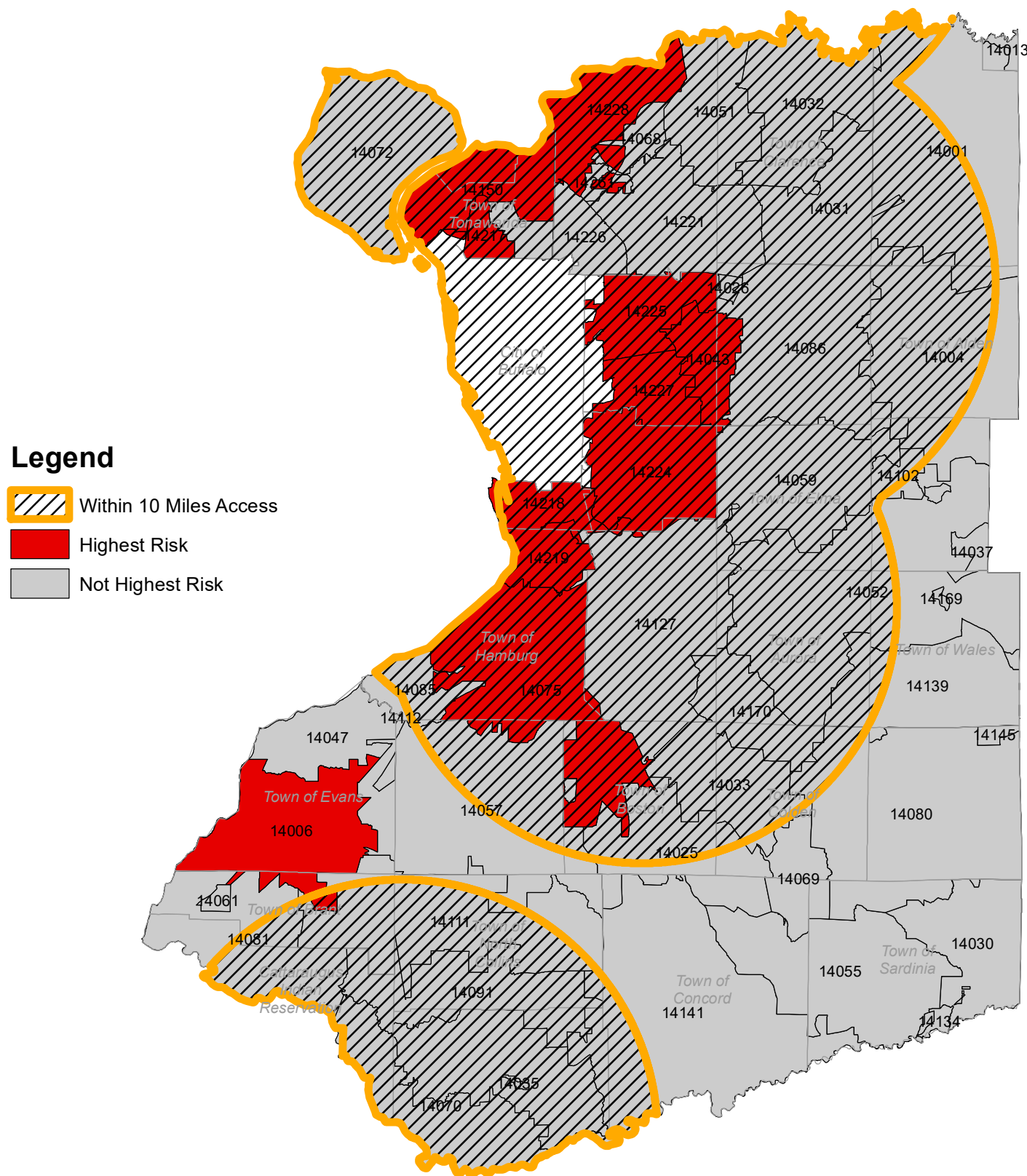
Accessibility to Outpatient Programs (Within 10 Miles Access, Includes Out of County Programs) [Erie County Excluding City of Buffalo, with Municipal Boundaries]

Legend

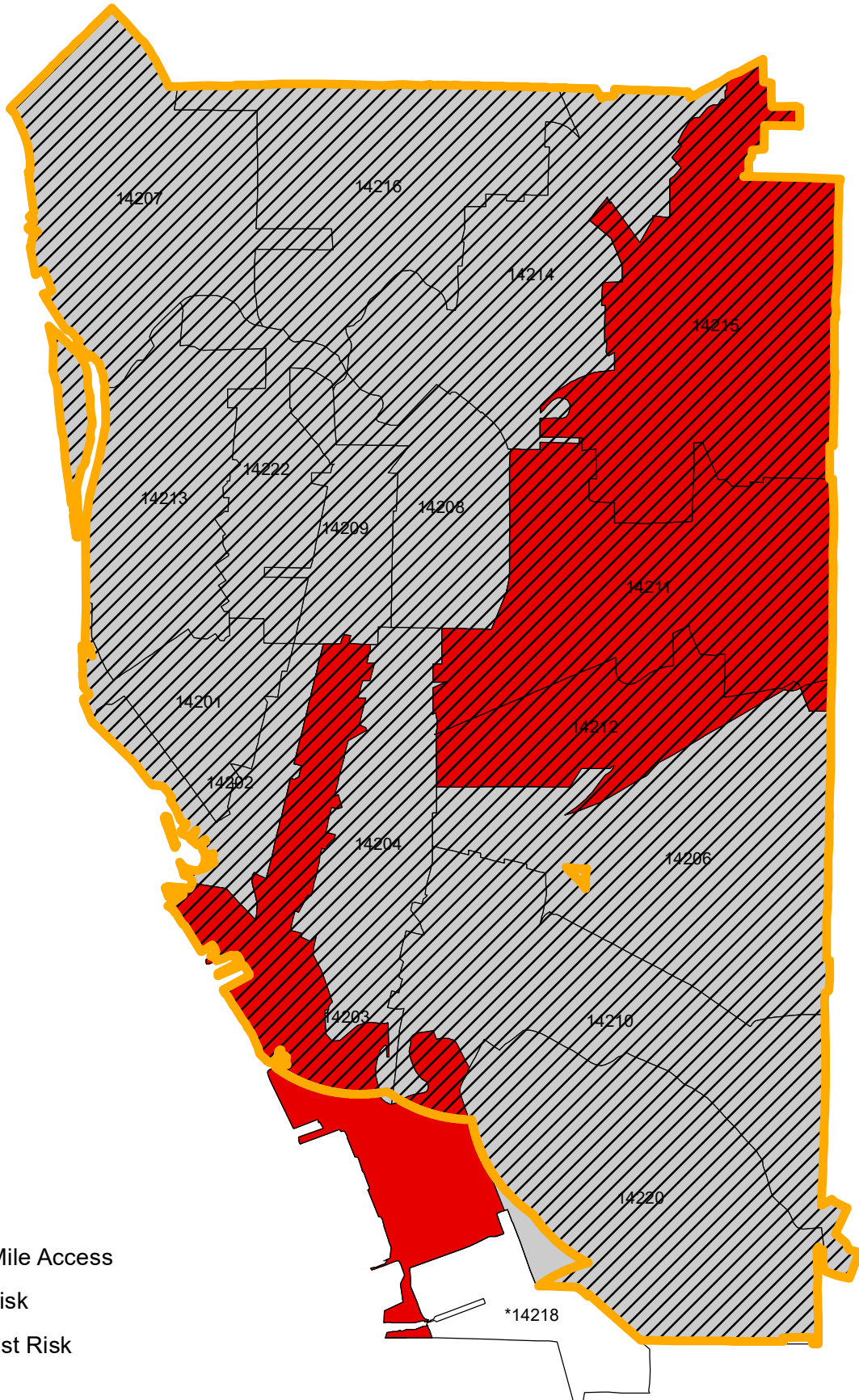
-  Within 10 Miles Access
-  Highest Risk
-  Not Highest Risk






Accessibility to Support Programs (Within 10 Miles Access, Includes Out of County Programs) [Erie County Excluding City of Buffalo, with Municipal Boundaries]



Accessibility to Mental Health Programs (Within 1 Mile Access) [City of Buffalo Only]



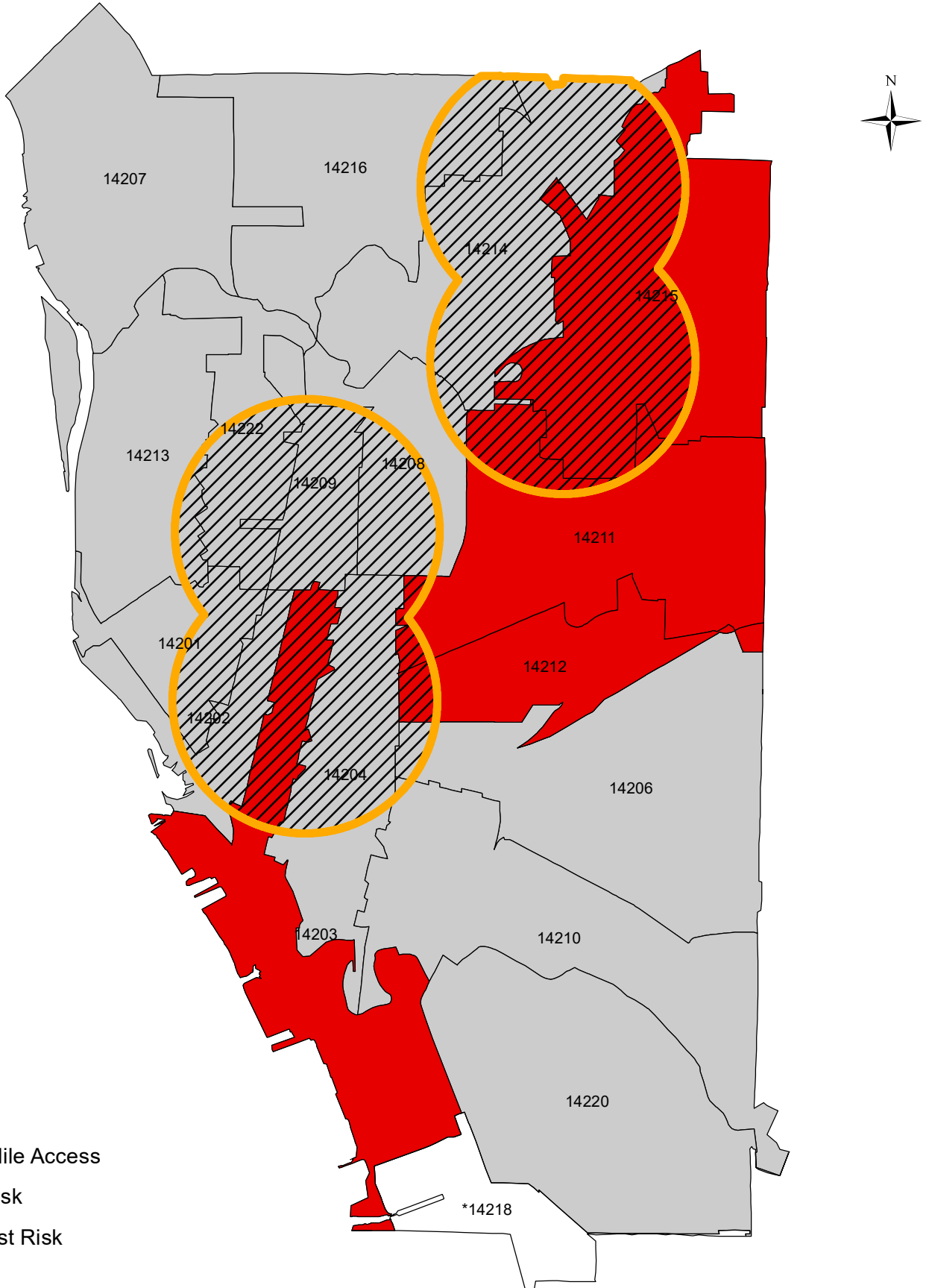
Legend

-  Within 1 Mile Access
-  Highest Risk
-  Not Highest Risk




0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Accessibility to Emergency Programs (Within 1 Mile Access) [City of Buffalo Only]



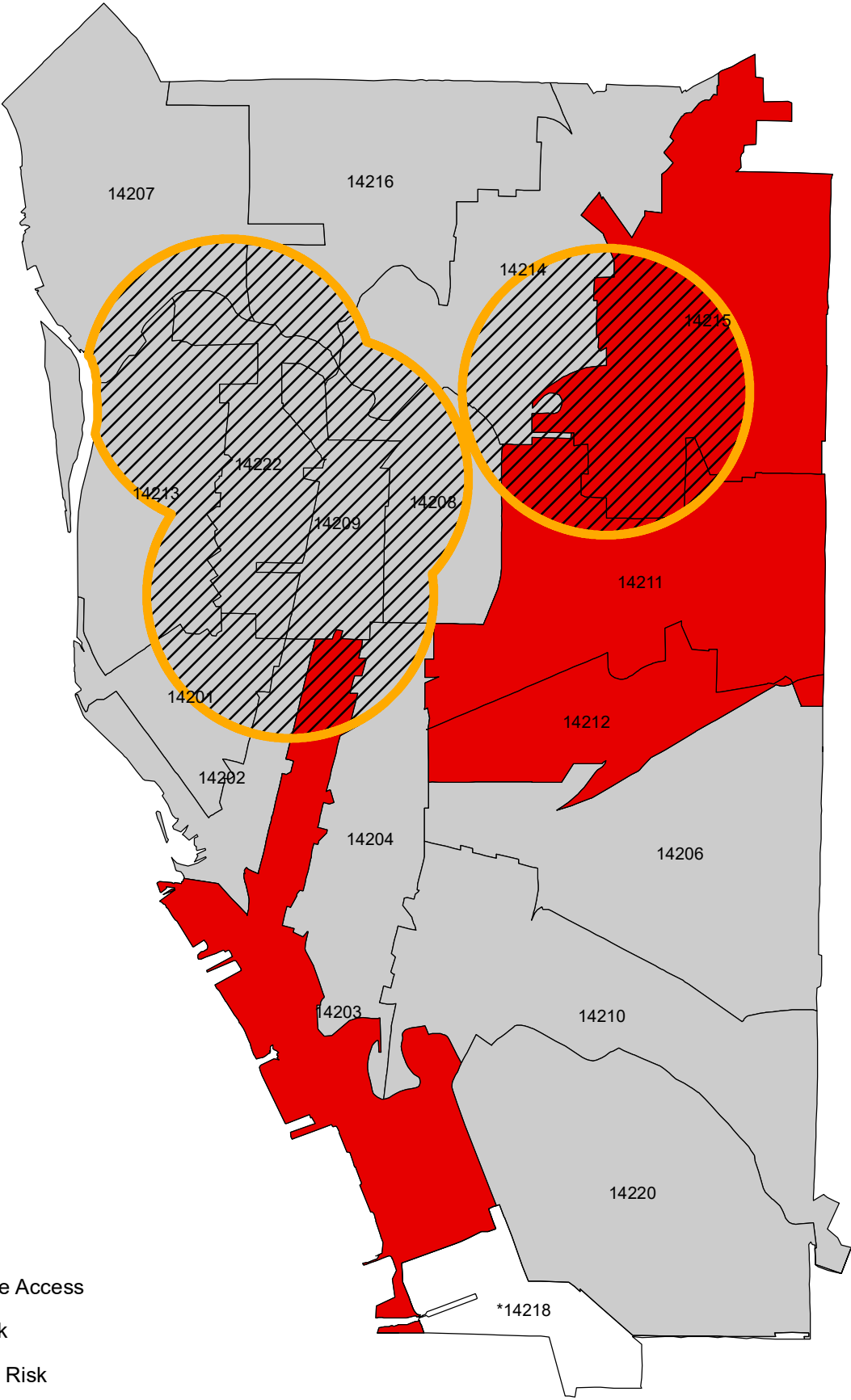
Legend

-  Within 1 Mile Access
-  Highest Risk
-  Not Highest Risk

0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Accessibility to Inpatient Programs (Within 1 Mile Access) [City of Buffalo Only]



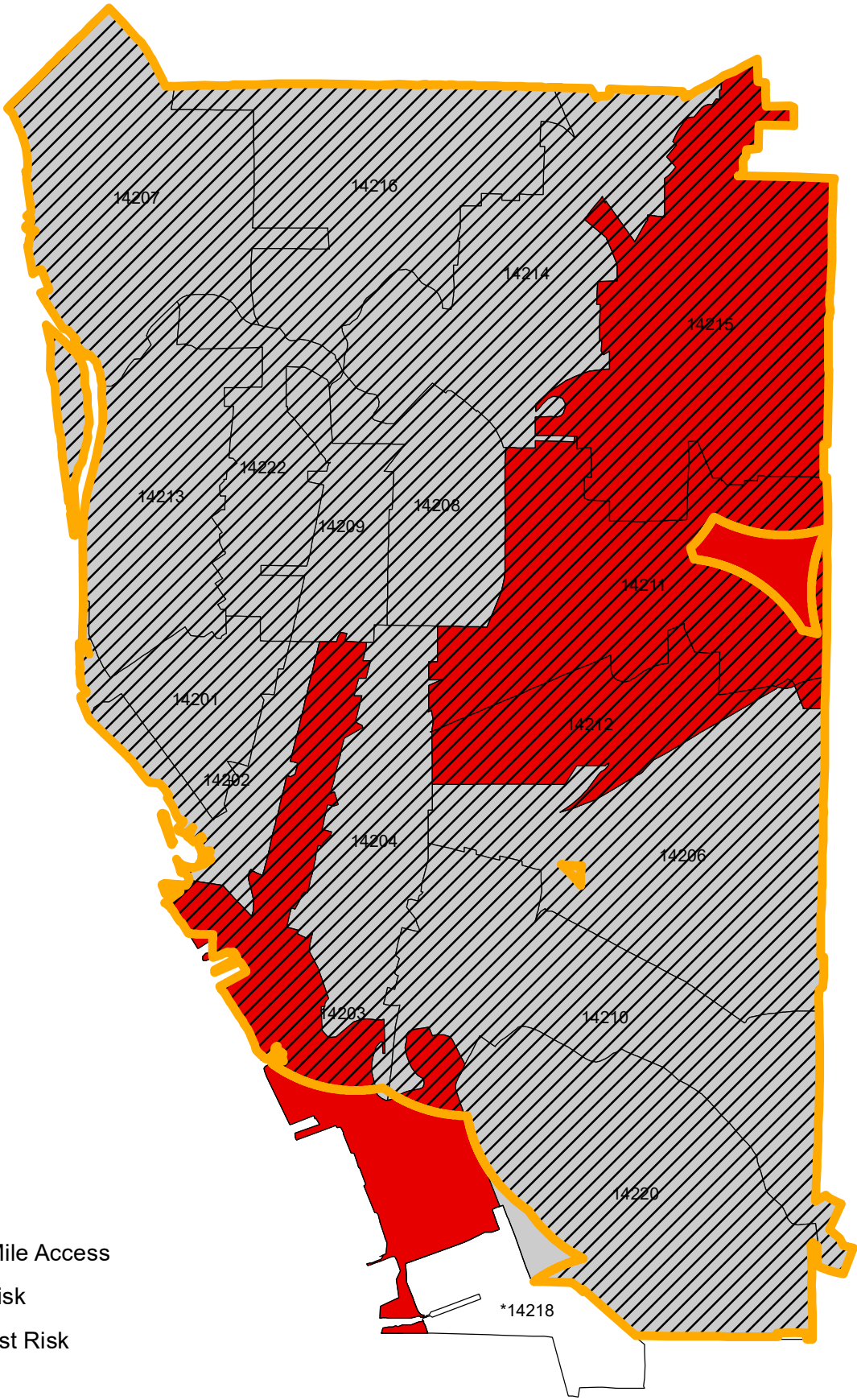
Legend

- Within 1 Mile Access
- Highest Risk
- Not Highest Risk






*The majority of ZIP Code 14218 is outside the City of Buffalo

Accessibility to Outpatient Programs (Within 1 Mile Access) [City of Buffalo Only]



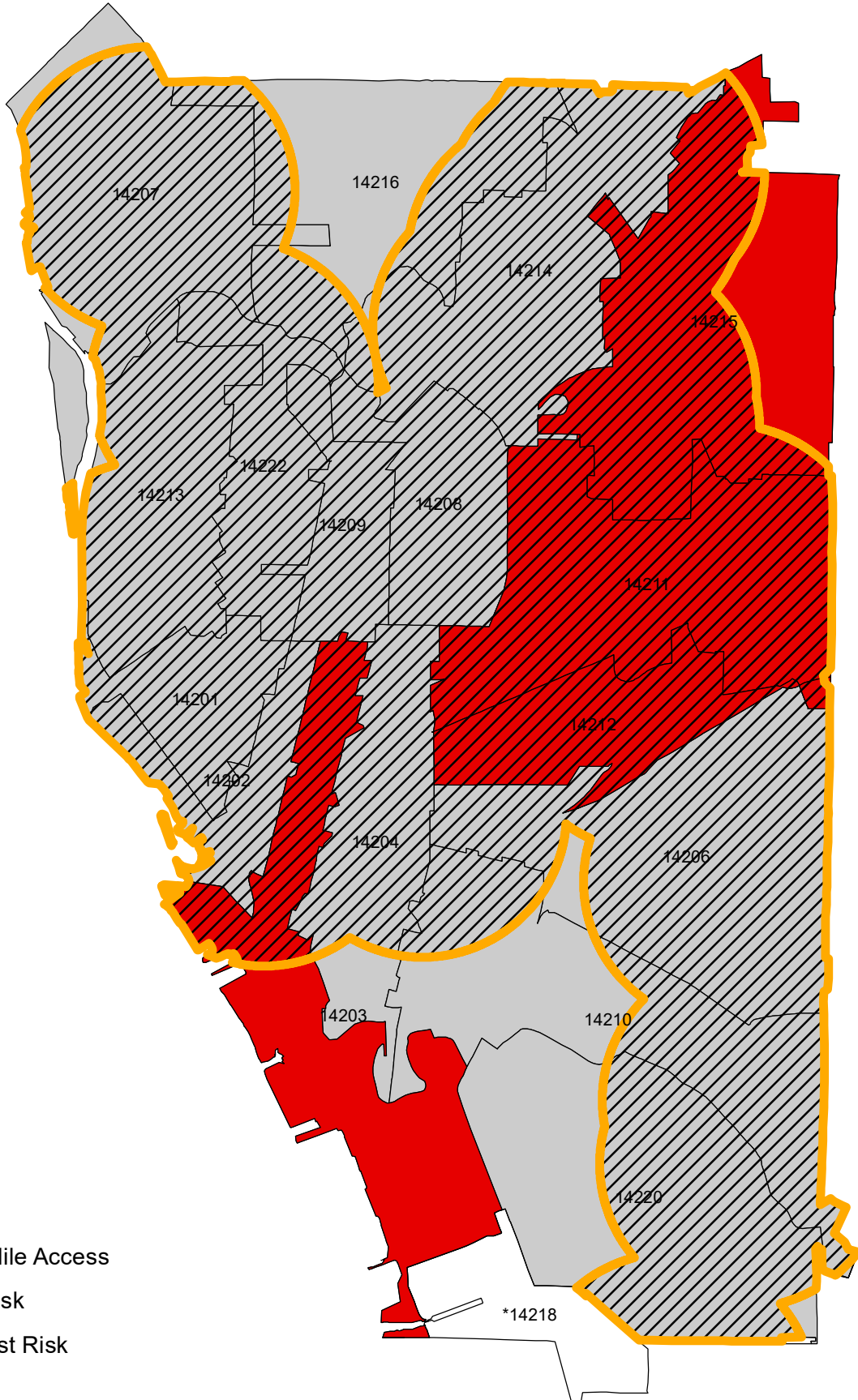
Legend

-  Within 1 Mile Access
-  Highest Risk
-  Not Highest Risk






*The majority of ZIP Code 14218 is outside the City of Buffalo

Accessibility to Support Programs (Within 1 Mile Access) [City of Buffalo Only]



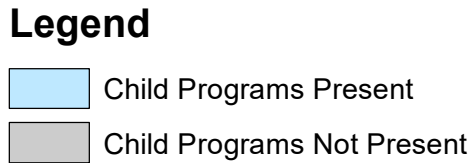
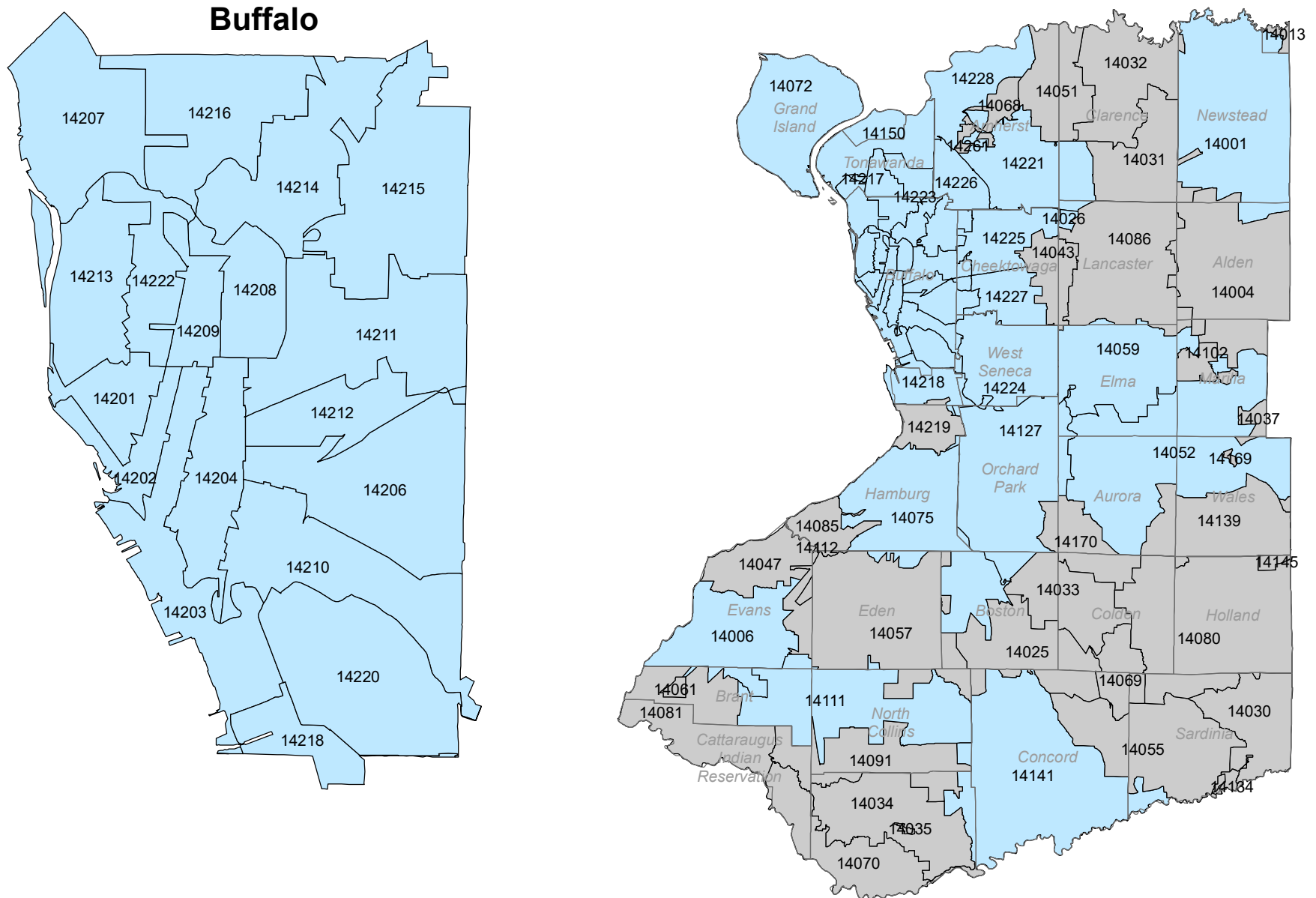
Legend

-  Within 1 Mile Access
-  Highest Risk
-  Not Highest Risk

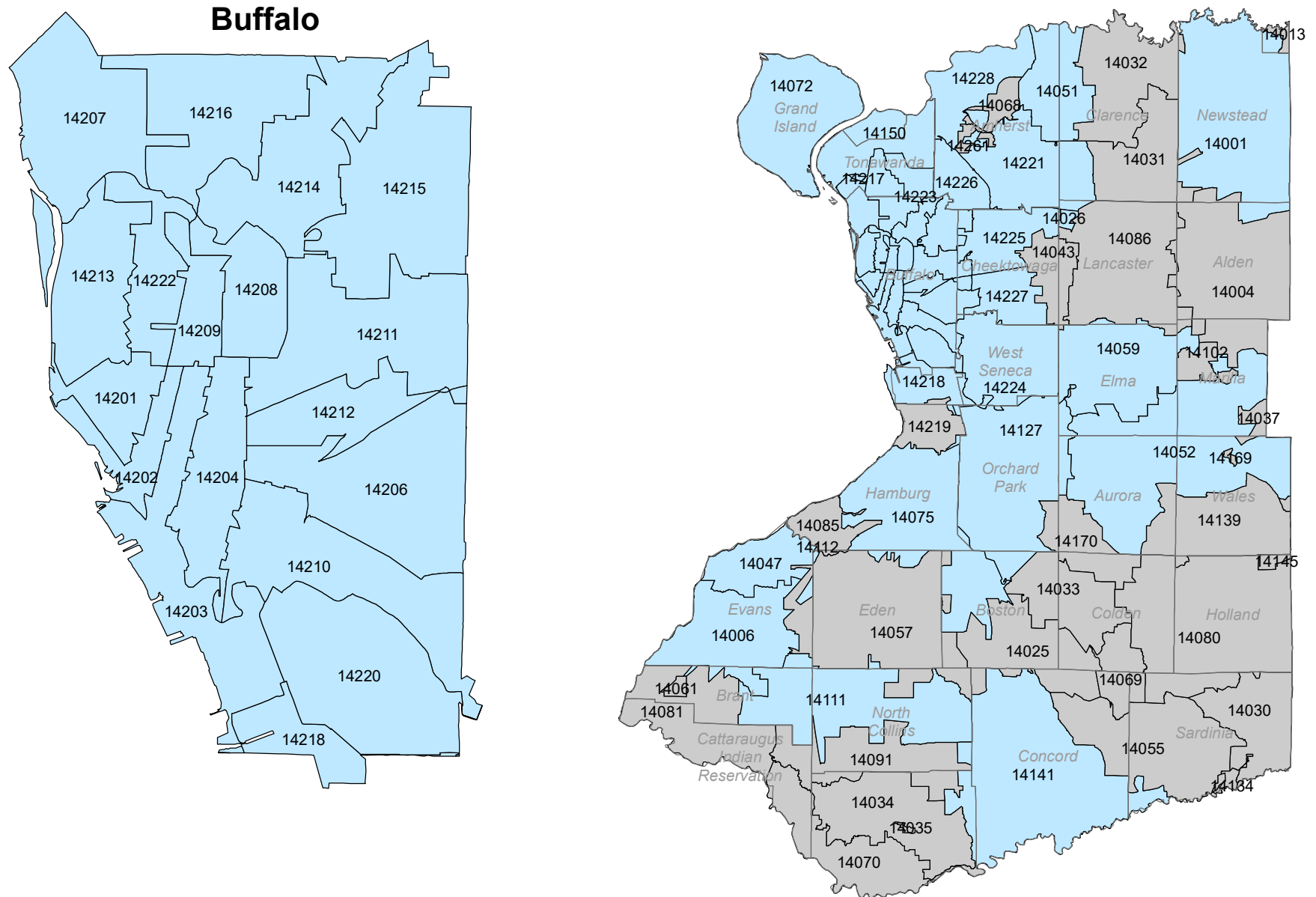
0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo



ZIP Codes with Mental Health Programs for Children



ZIP Codes with Mental Health Programs for Adolescents

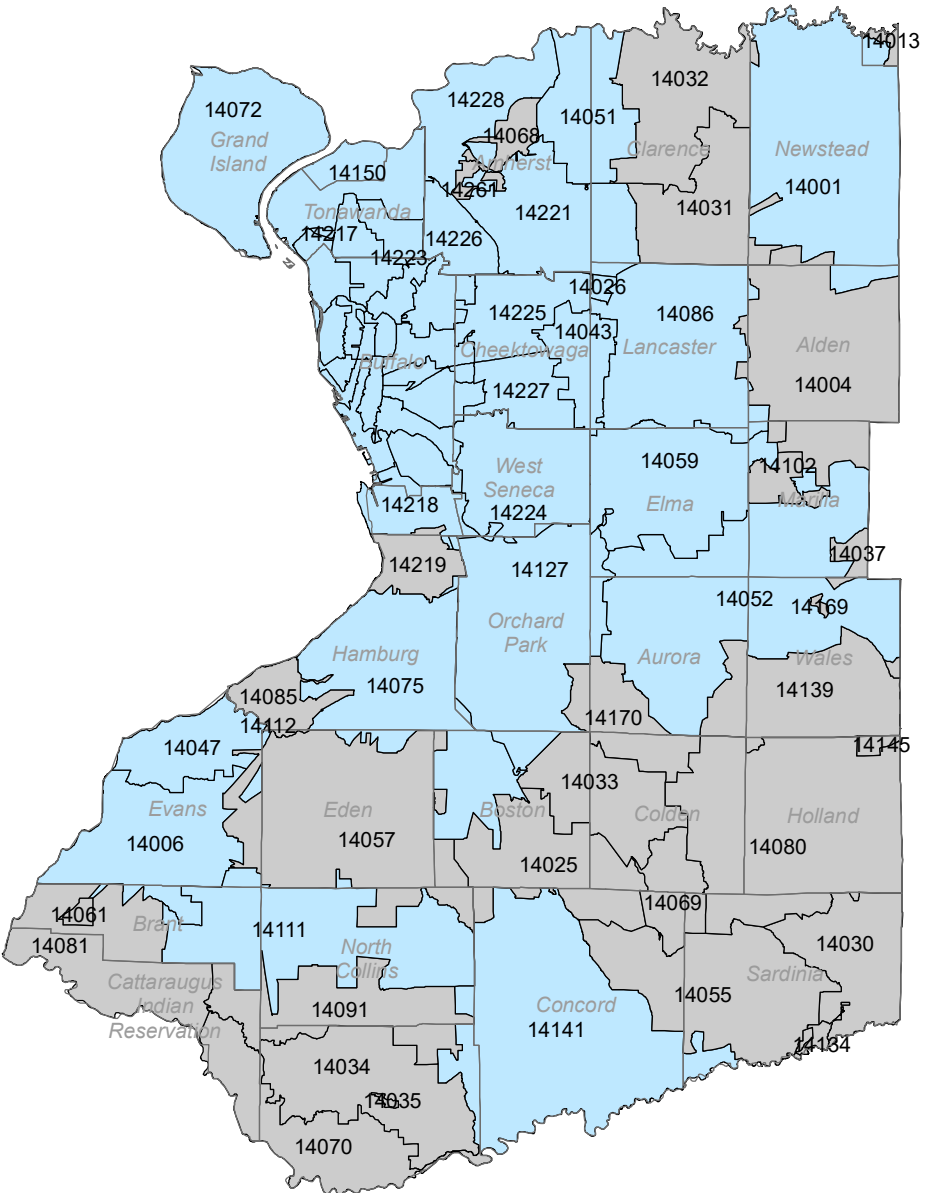
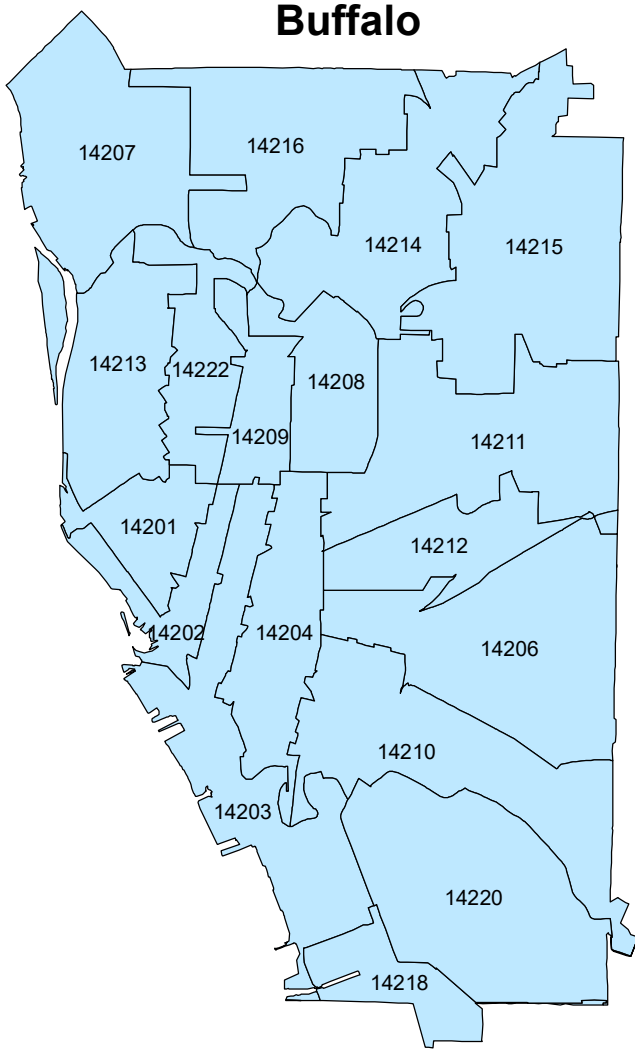


Legend

-  Adolescent Programs Present
-  Adolescent Programs Not Present



ZIP Codes with Mental Health Programs for Adults



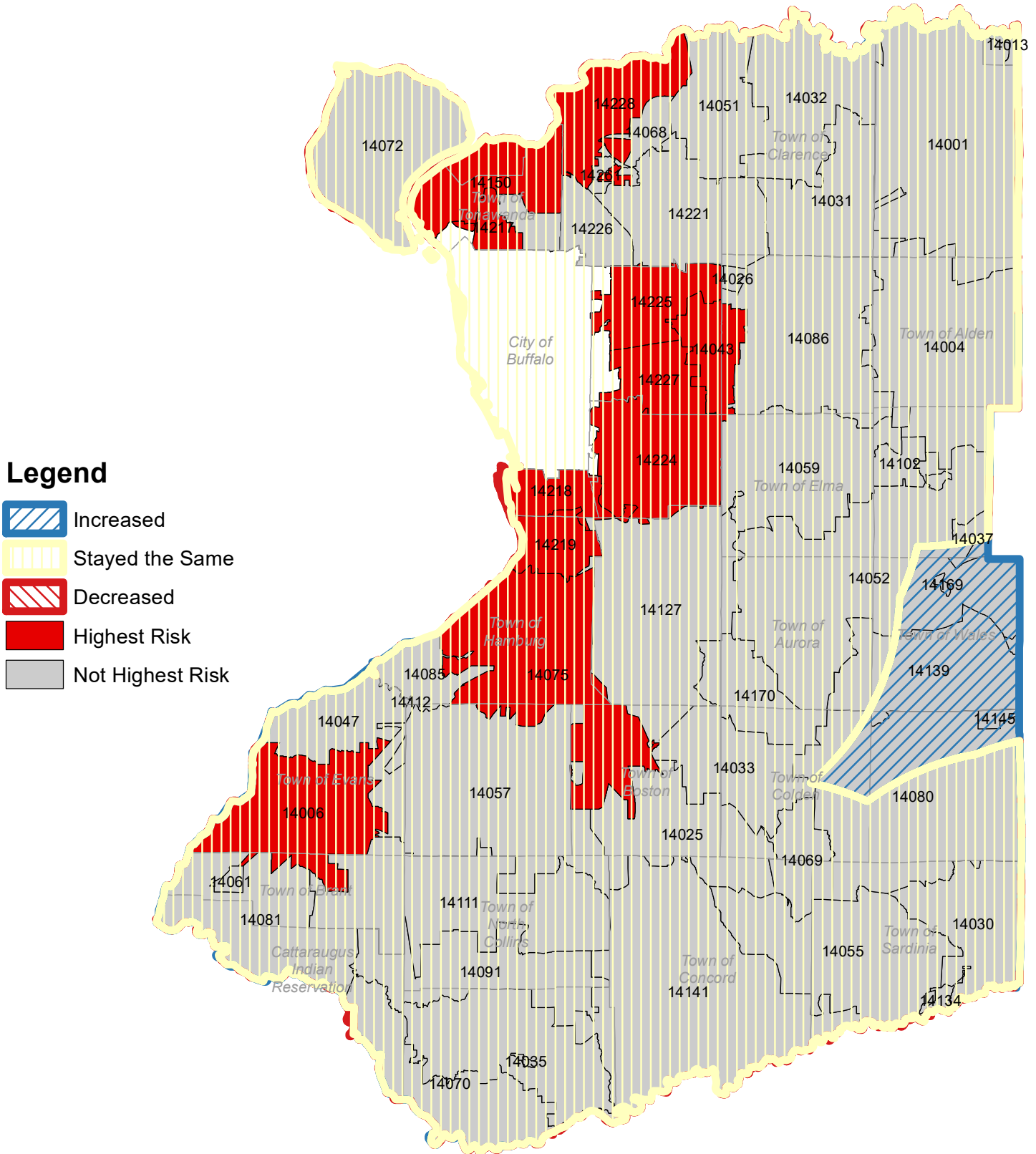
Legend

- Adult Programs Not Present
- Adult Programs Present



Comparison of Accessibility to Mental Health Programs between 2017 & 2019 (Within 10 Miles Access, Includes Out of County Programs)

[Erie County Excluding City of Buffalo, with Municipal Boundaries]

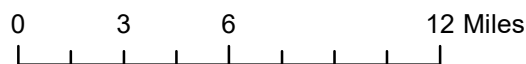
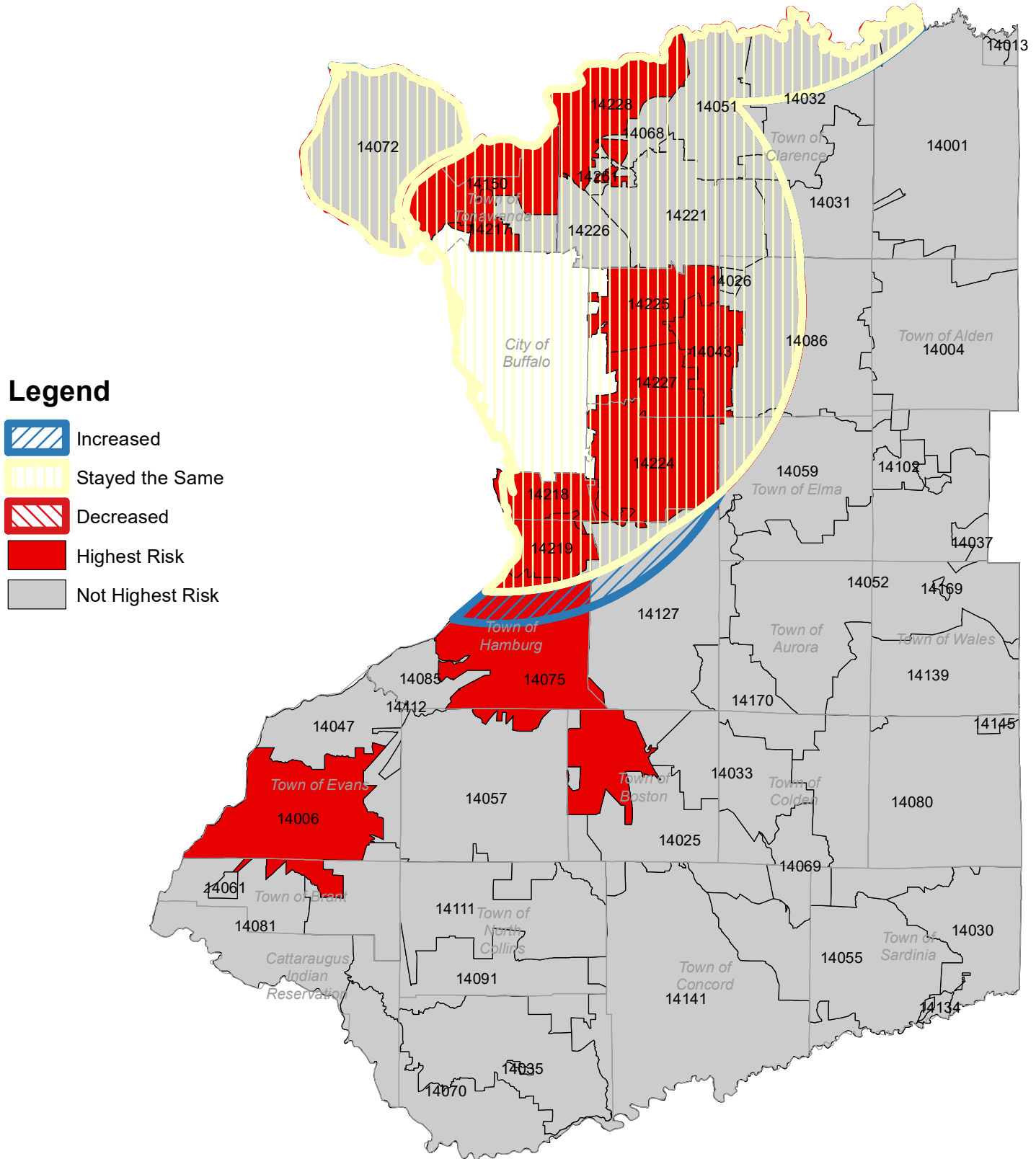


0 3 6 12 Miles



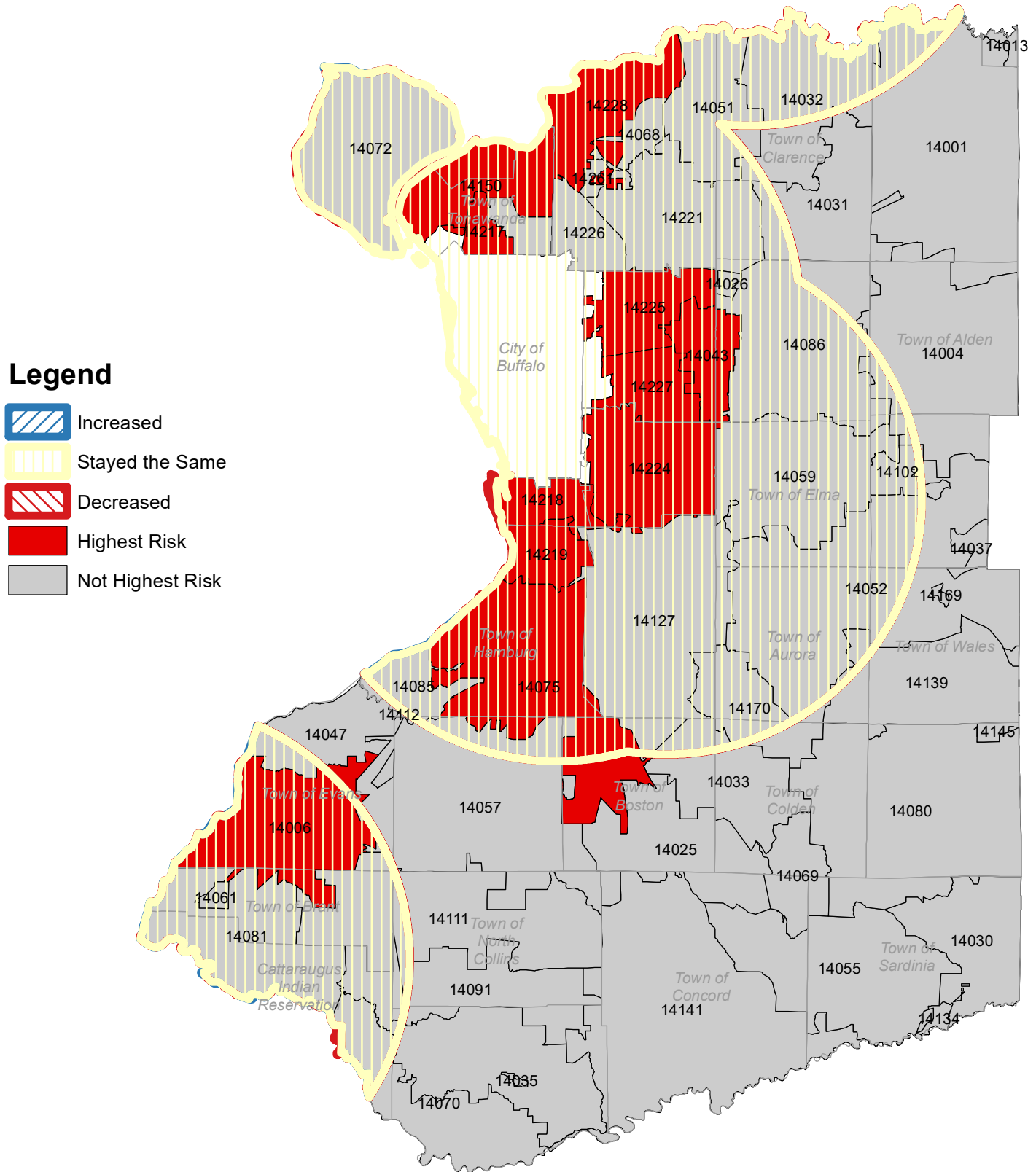
Comparison of Accessibility to Emergency Programs between 2017 & 2019 (Within 10 Miles Access, Includes Out of County Programs)

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



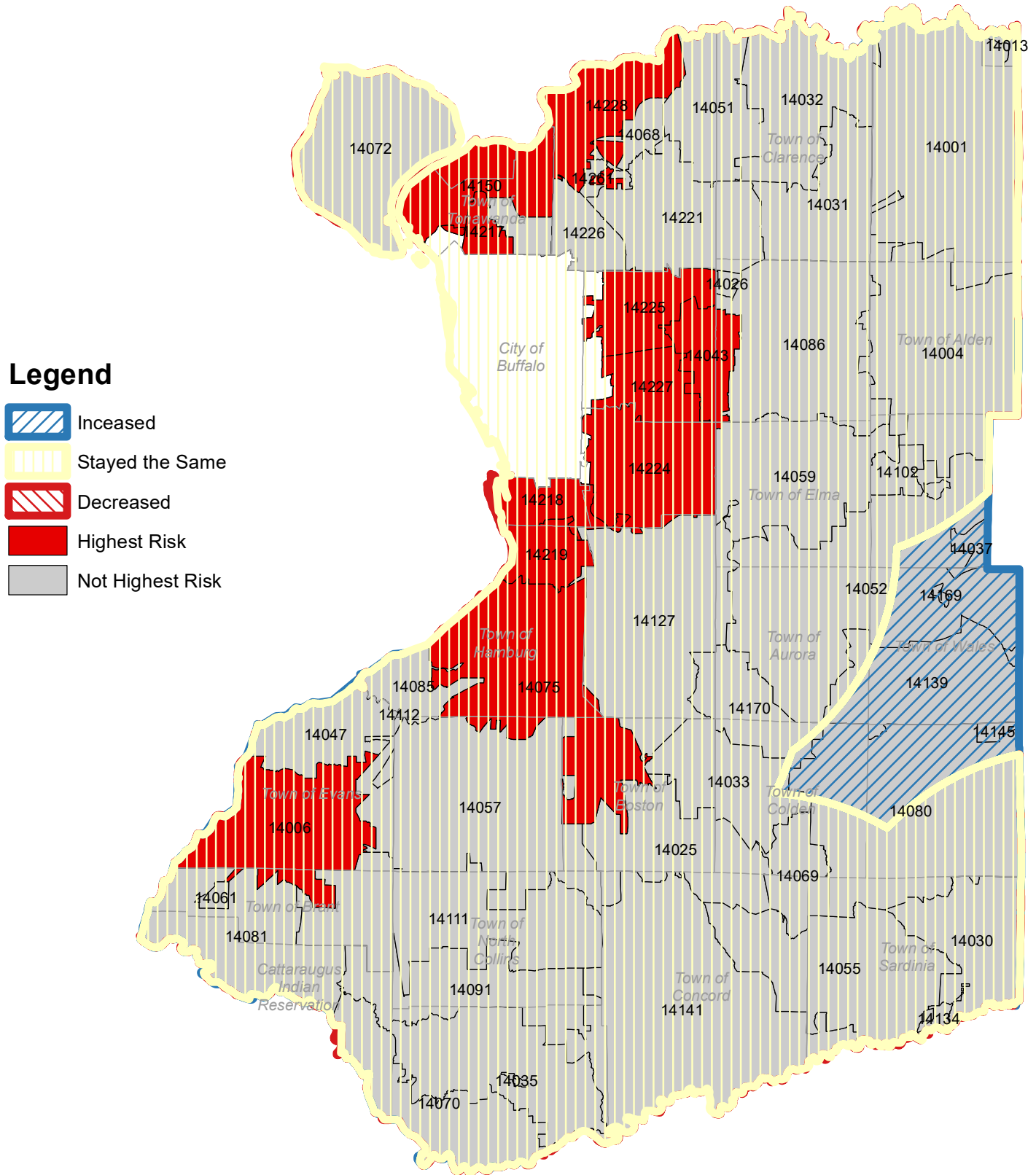
Comparison of Accessibility to Inpatient Programs between 2017 & 2019 (Within 10 Miles Access, Includes Out of County Programs)

[Erie County Excluding City of Buffalo, with Municipal Boundaries]








Comparison of Accessibility to Outpatient Programs between 2017 & 2019 (Within 10 Miles Access, Includes Out of County Programs)

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



Legend

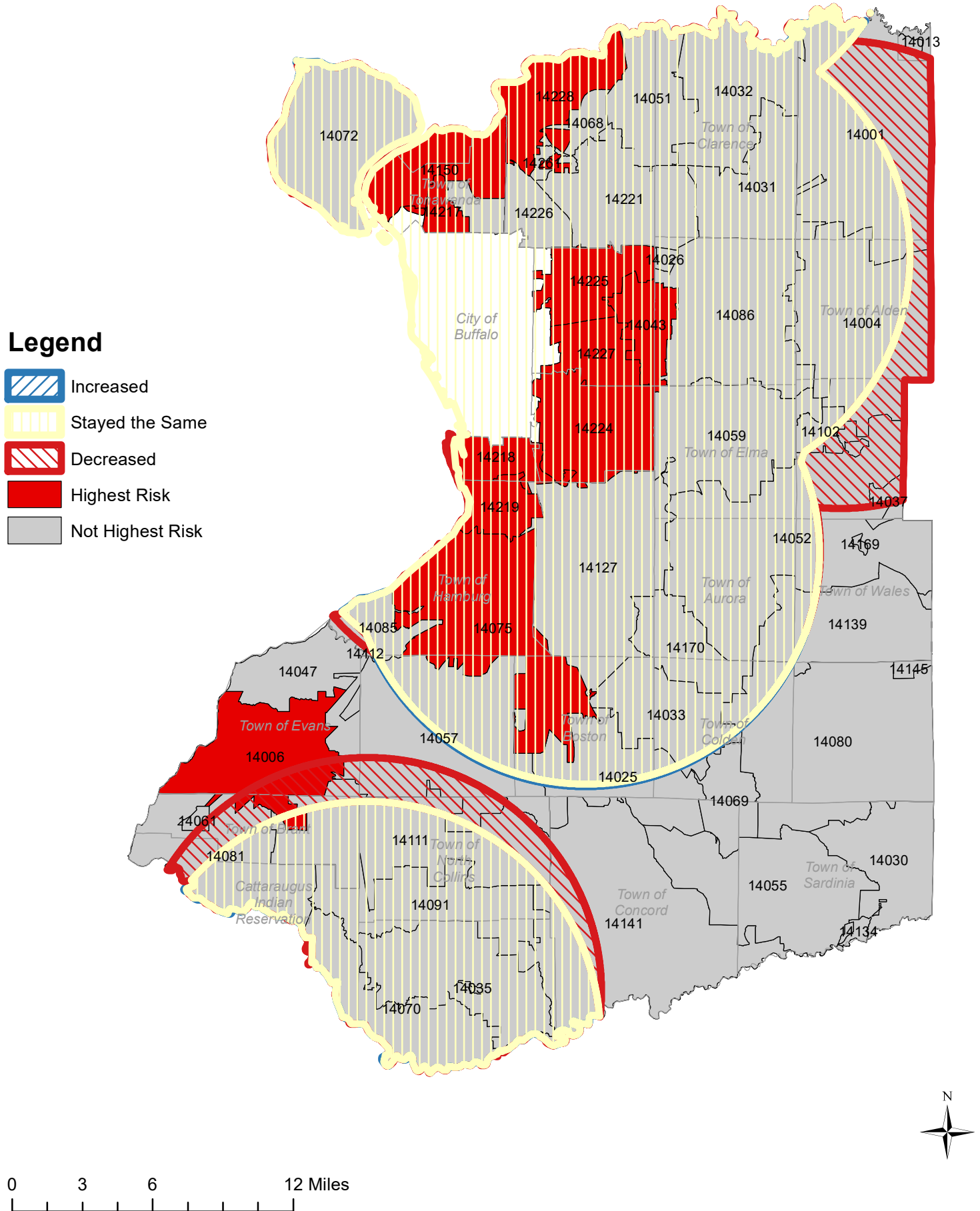
-  Increased
-  Stayed the Same
-  Decreased
-  Highest Risk
-  Not Highest Risk

0 3 6 12 Miles



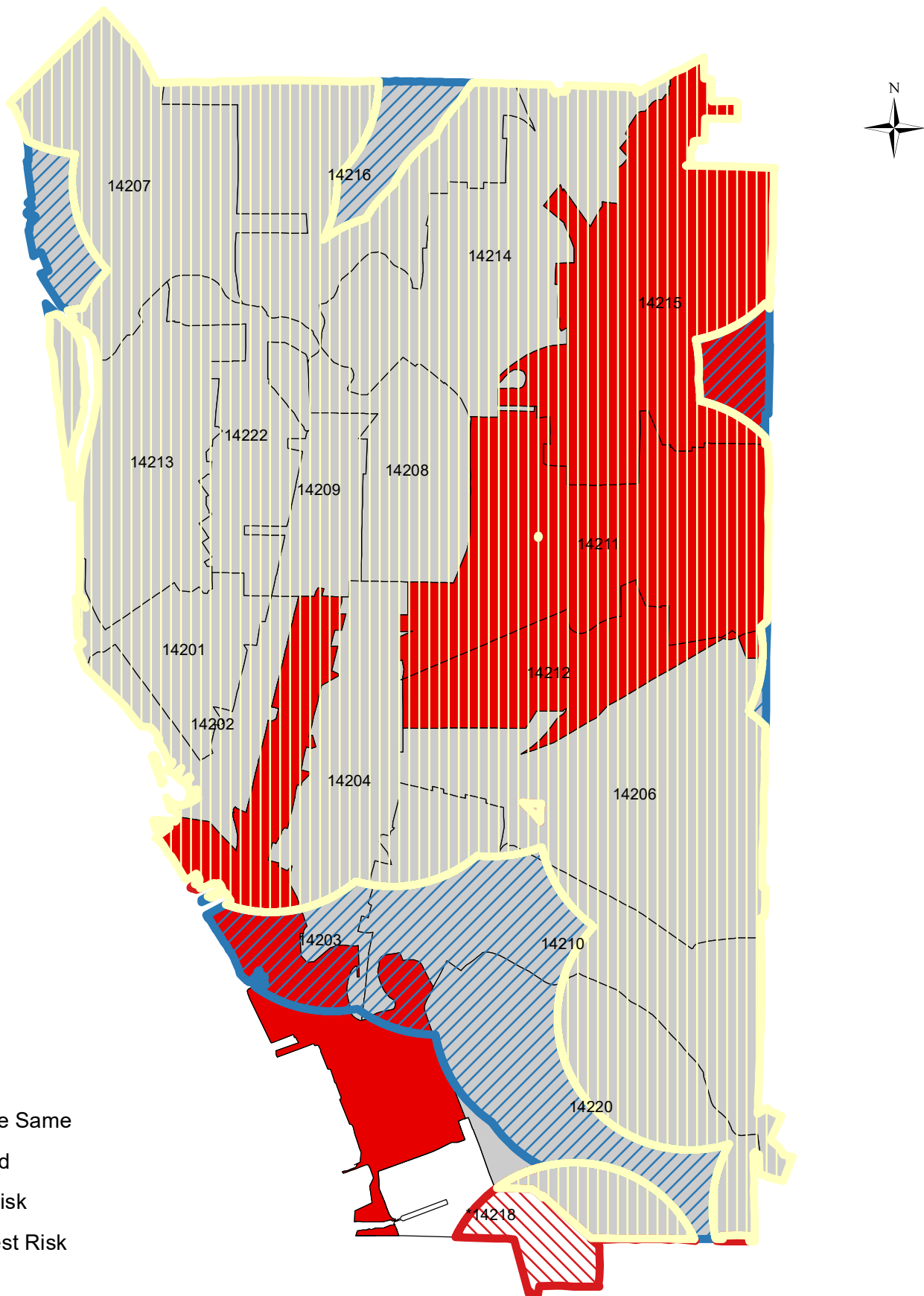
Comparison of Accessibility to Support Programs between 2017 & 2019 (Within 10 Miles Access, Includes Out of County Programs)

[Erie County Excluding City of Buffalo, with Municipal Boundaries]



Comparison of Accessibility to Mental Health Programs between 2017 & 2019 (Within 1 Mile Access)

[City of Buffalo Only]



Legend

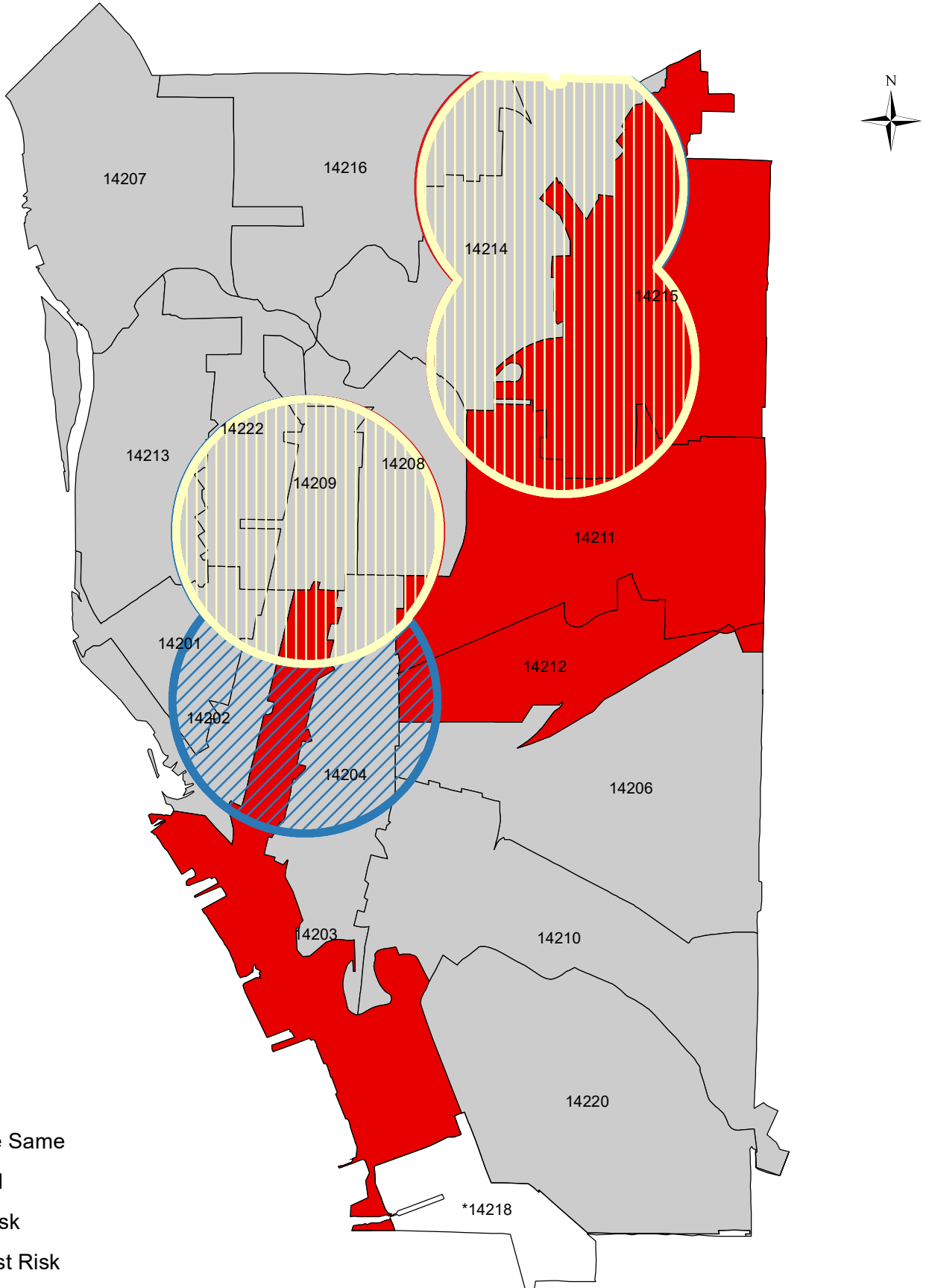
- Increased
- Stayed the Same
- Decreased
- Highest Risk
- Not Highest Risk

0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Comparison of Accessibility to Emergency Programs between 2017 & 2019 (Within 1 Mile Access)

[City of Buffalo Only]

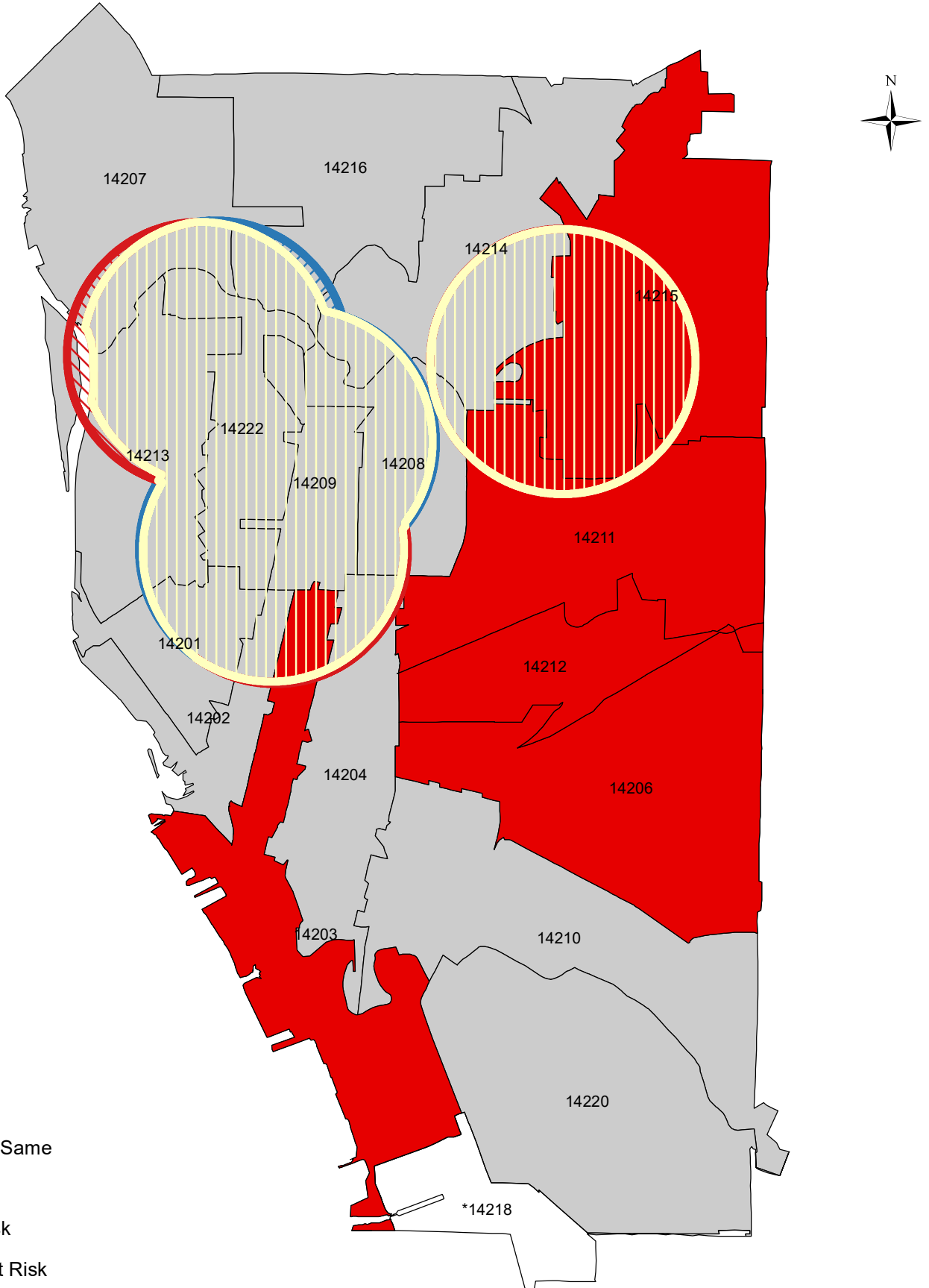


0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Comparison of Accessibility to Inpatient Programs between 2017 & 2019 (Within 1 Mile Access)

[City of Buffalo Only]



Legend

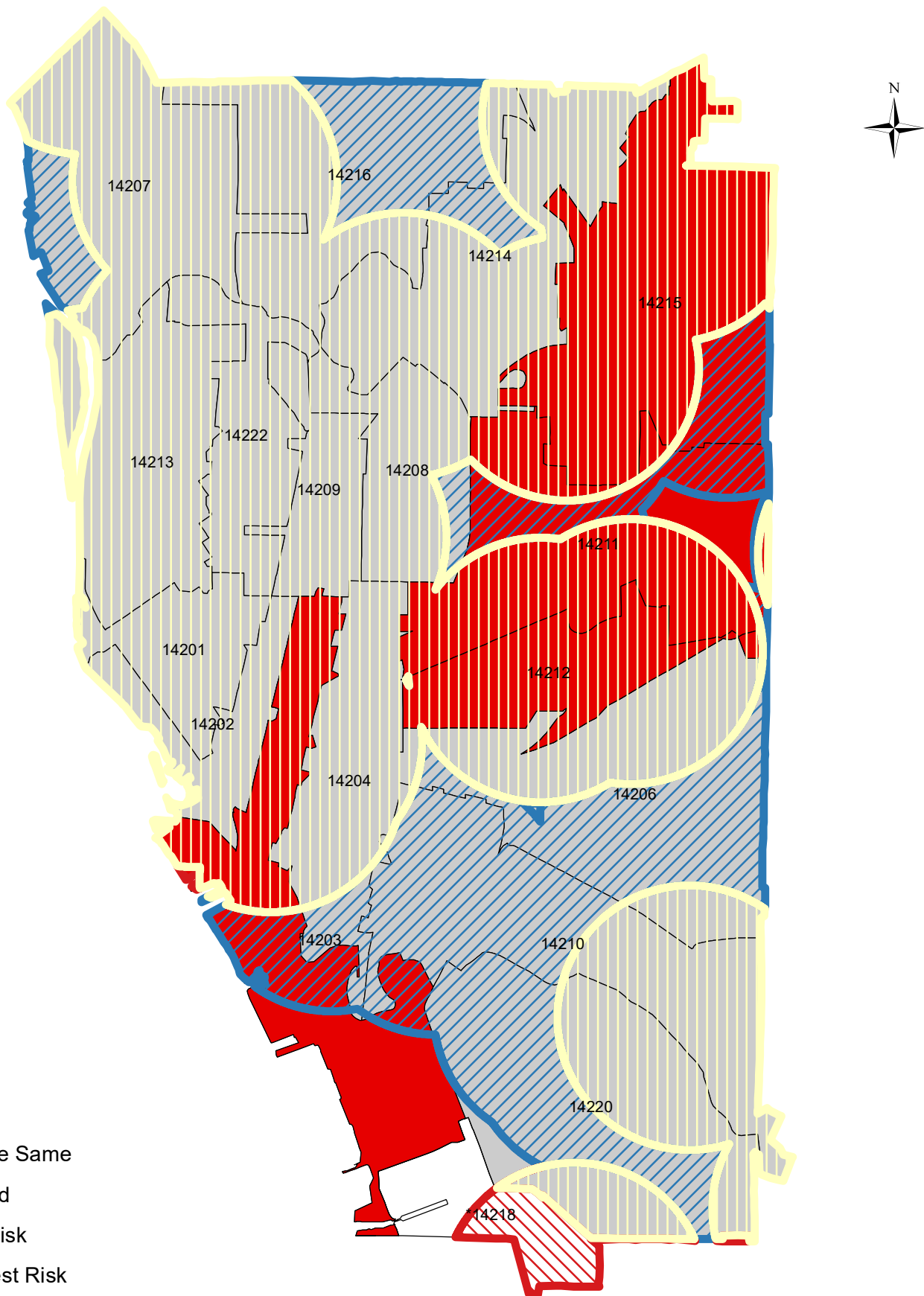
- Increased
- Stayed the Same
- Decreased
- Highest Risk
- Not Highest Risk

0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Comparison of Accessibility to Outpatient Programs between 2017 & 2019 (Within 1 Mile Access)

[City of Buffalo Only]



Legend

- Increased
- Stayed the Same
- Decreased
- Highest Risk
- Not Highest Risk

0 0.5 1 2 Miles

*The majority of ZIP Code 14218 is outside the City of Buffalo

Comparison of Accessibility to Support Programs between 2017 & 2019 (Within 1 Mile Access)

[City of Buffalo Only]

