

# Integrated Approaches to Planning Substance Abuse/Chemical Dependence Prevention and Treatment Services in Erie County

## Impact Assessment Report

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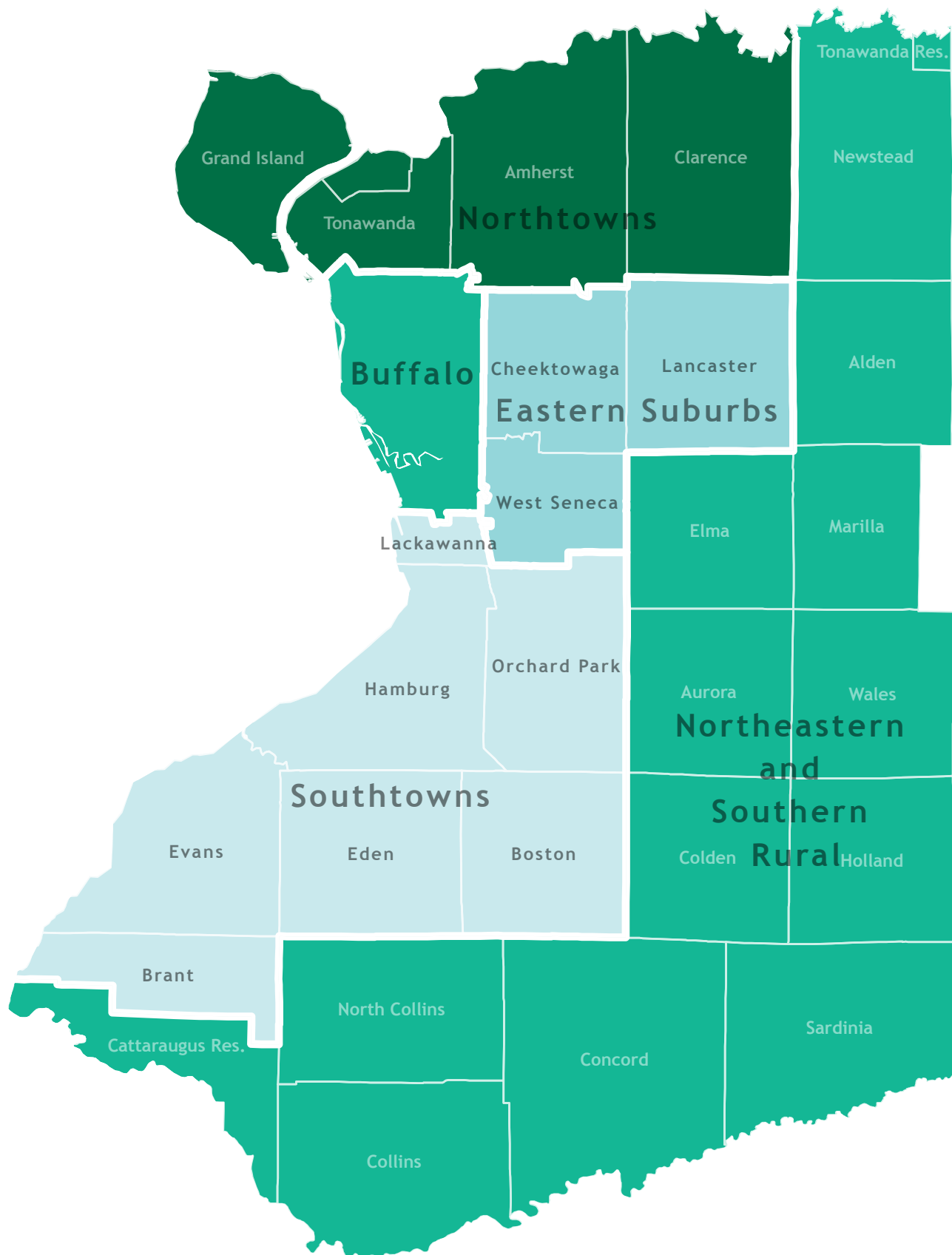
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# Summary of Impact Assessment Trend Analysis

The analysis of trends in the data classified the most four- or five-year period of annual observations based on comparisons between sub-regional and countywide data. Maps highlight differences in trends between sub-regions and the relationship between sub-regional trends and the county as a whole. Red colors indicate increasing risk, while blue colors indicate decreasing risk. Risk was determined indicator-by-indicator. An increasing trend in graduation rate indicates decreasing risk, while an increasing trend in the rate of poor grade 8 English performance indicates increasing risk.

Trends represent the generalized rate of change per year in an indicator, taking account of fluctuations over the time-period. In certain instances, though the indicator in the most recent year may have increased or decreased from the initial year, the trend may be in the opposite direction. In these cases, there have been large fluctuations over the four- or five-year time period. Trends are illustrative and should not be used to forecast future indicators.

# Erie County Prevention Planning Impact Assessment Sub County Regions



# 1. Absentee rate

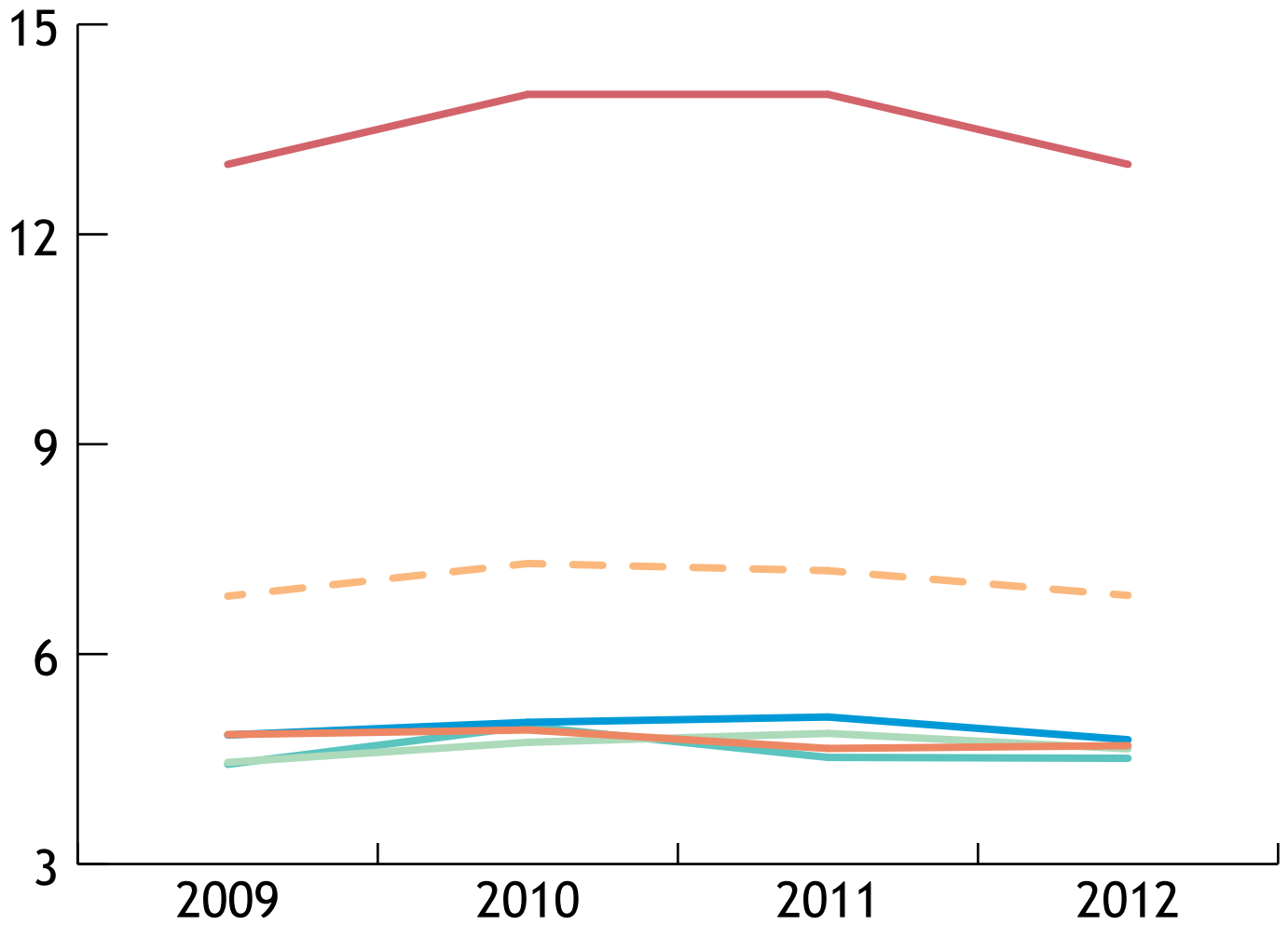
**NOMs Domain:** Employment/Education







**Data Source:** New York State Education Department (NYSED), School Report Cards

**Data Description:** Data were gathered from NYSED, which reports on the attendance rate and enrollment for each school district within Erie County. Data were reported for school districts, which largely correspond to the Planning Areas. Where districts overlap Planning Area boundaries, a population-weighted areal interpolation was applied to the data. School district-wide attendance rates were multiplied by total enrollment in order to compute the average attendance in a district. This was then subtracted from the district's enrollment to calculate average number of absences. Average absences were then aggregated by Planning Area and divided by Planning Area enrollment.

**Trend Analysis:** There was little change in the absentee rate in Erie County between 2009 and 2012. The region as a whole saw very small declines in absenteeism, with the Northtowns and Eastern Suburbs having the strongest downward trends, while the City of Buffalo saw no change over the three-year analysis period.

# Absentee Rate

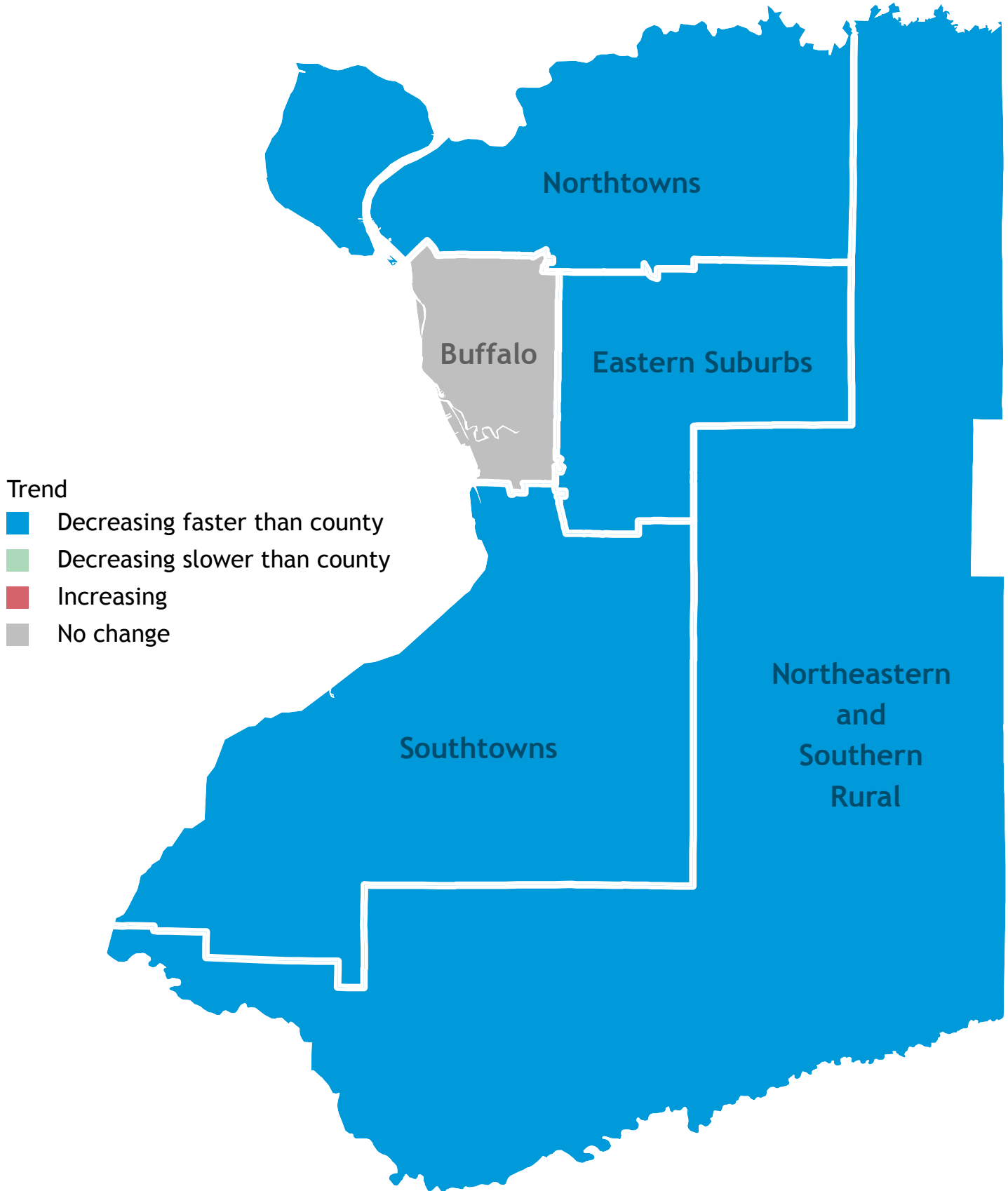


	2009	2010	2011	2012
 Northeastern and Southern Rural	4.42	4.97	4.52	4.51
 Southtowns	4.84	5.02	5.10	4.78
 Eastern Suburbs	4.45	4.74	4.87	4.65
 Northtowns	4.84	4.91	4.65	4.69
 City of Buffalo	13.00	14.00	14.00	13.00
 Erie County	6.83	7.29	7.19	6.84
Erie County (No Buffalo)*	4.67	4.90	4.77	4.66

\*Not in chart

# Absentee Rate 2009-2012

County trend: Decreasing less than 0.01 percent per year



# 2. Graduation Rate

**NOMs Domain:** Employment/Education

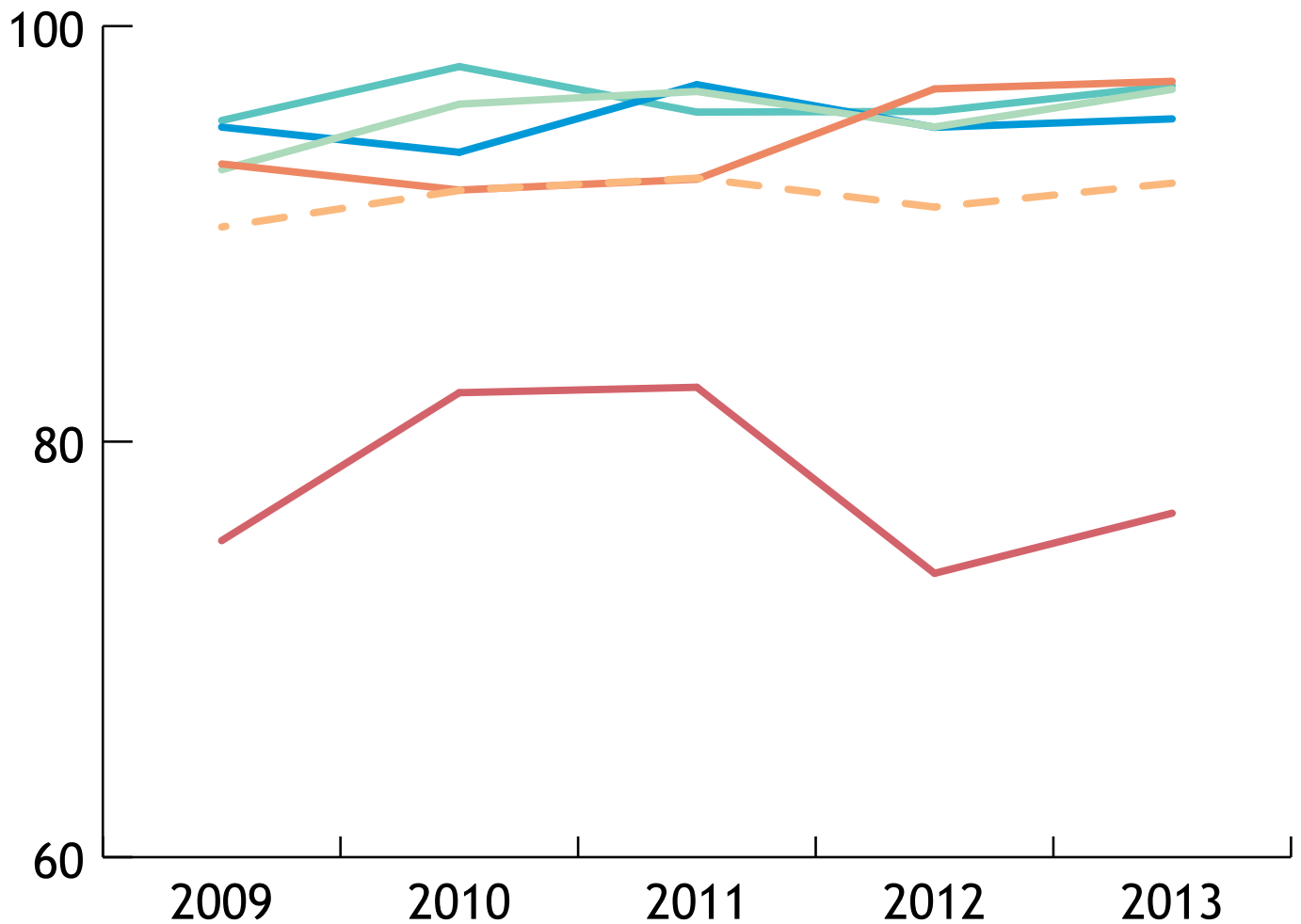
**Data Source:** New York State Education Department (NYSED), School Report Cards







**Data Description:** Data were obtained from NYSED, which reports the graduation rate for each school district within Erie County between 2009 and 2013. The native geographies of the data are school districts, which largely correspond to the Planning Areas, but required a population-weighted areal interpolation to distribute nonaligned data between Planning Areas.

**Trend Analysis:** From 2009 to 2013, there was a decreasing trend in graduation rates throughout the county. The greatest increases were found in the Northtowns and Eastern Suburbs, which have a trend of 1.3 and 0.7 percent increase in graduation rate each year, respectively. The City of Buffalo, on the other hand, saw a declining trend in the graduation rate during the four-year period, with an increase from 2009 to 2011 and sharp decreases in 2012 and 2013.



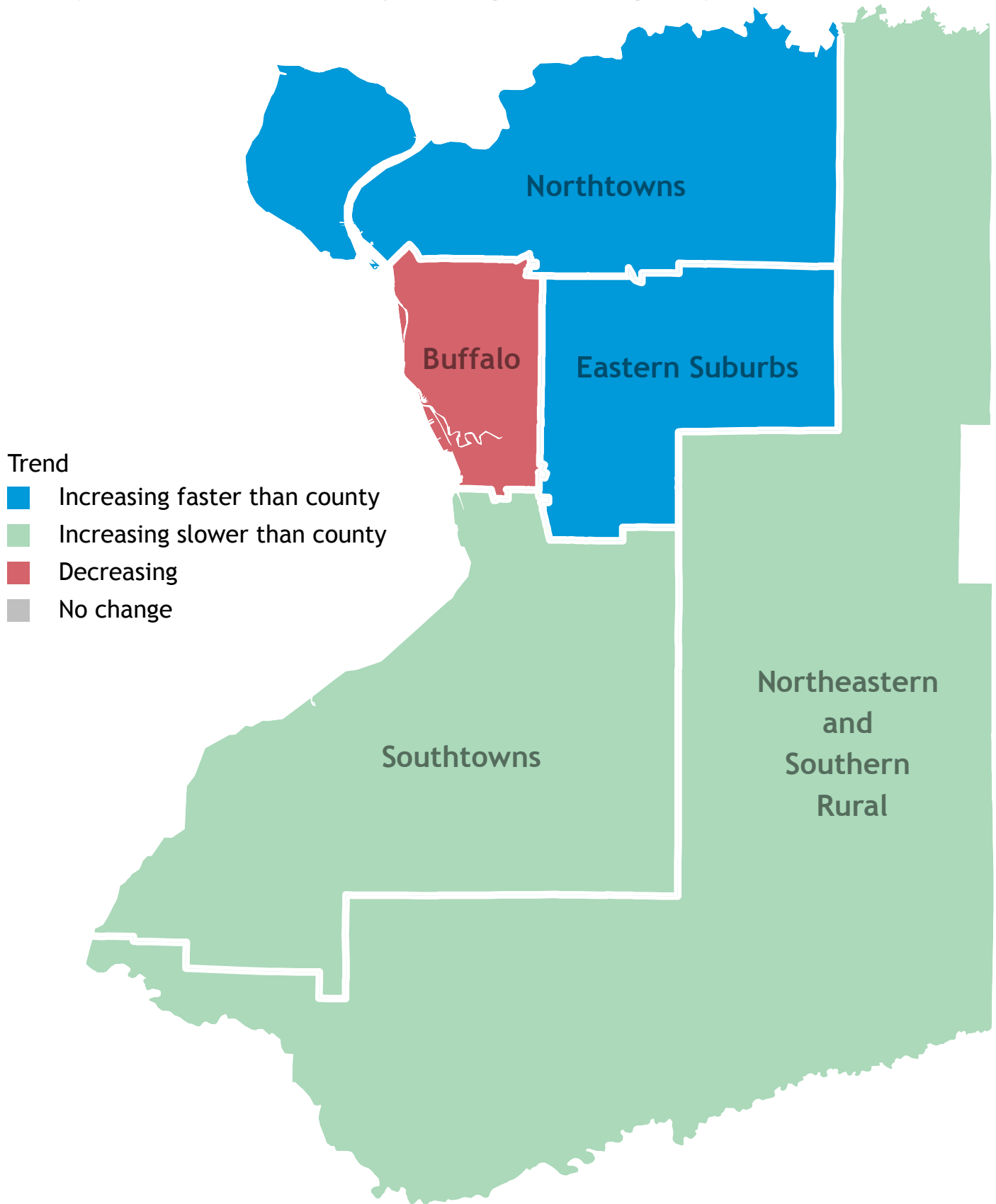
# Graduation Rate



	2009	2010	2011	2012	2013
 Northeastern and Southern Rural	95.46	98.05	95.86	95.89	97.14
 Southtowns	95.14	93.93	97.18	95.13	95.53
 Eastern Suburbs	93.09	96.24	96.85	95.14	96.95
 Northtowns	93.36	92.11	92.63	96.98	97.34
 City of Buffalo	75.23	82.36	82.62	73.66	76.56
 Erie County	90.33	92.09	92.68	91.29	92.44
Erie County (No Buffalo)	94.05	94.57	95.17	95.94	96.84

# Graduation Rate 2009-2013

County trend: Increasing 0.34 percent per year



# 3. Rate of Poor Grade 8 English Performance

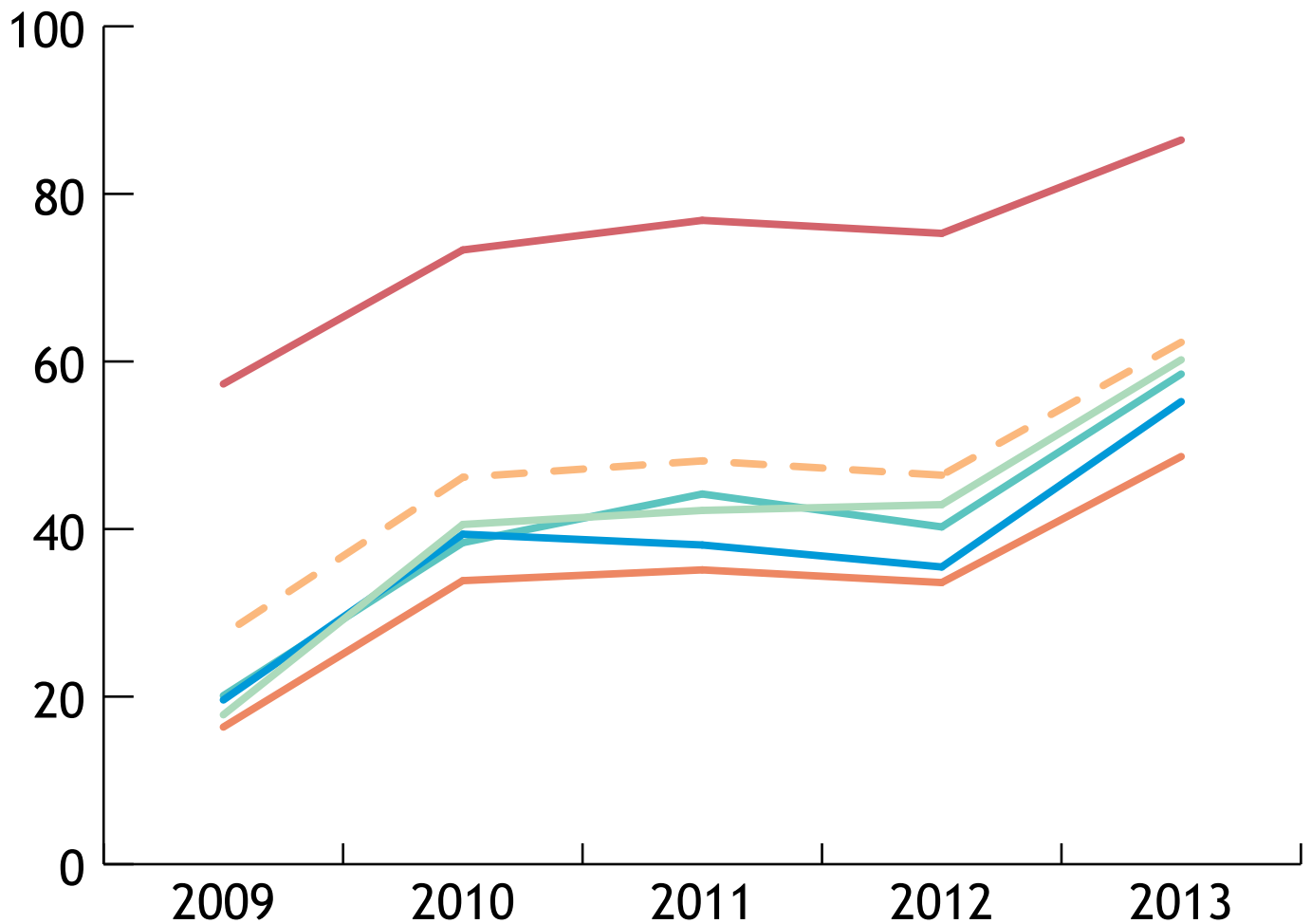
**NOMs Domain:** Employment/Education








**Data Source:** New York State Education Department (NYSED), School Report Cards

**Data Description:** Data were obtained from NYSED, which reports the aggregate scores on standardized tests for each school district within Erie County between 2009 and 2013. The rate of poor grade 8 english performance was taken from the share of students scoring at Level 1 and Level 2. The native geographies of the data are school districts, which largely correspond to the Planning Areas, but required a population-weighted areal interpolation to distribute nonaligned data between Planning Areas.

**Trend Analysis:** The years between 2009 and 2013 saw dramatic increases in the rates of poor performance in grade 8 English throughout the county. Countywide, the rate of poor performance has increased 7 percent each year, with increases as high as 8.7 percent in the Eastern Suburbs.

# Rate of Poor Grade 8 English Performance

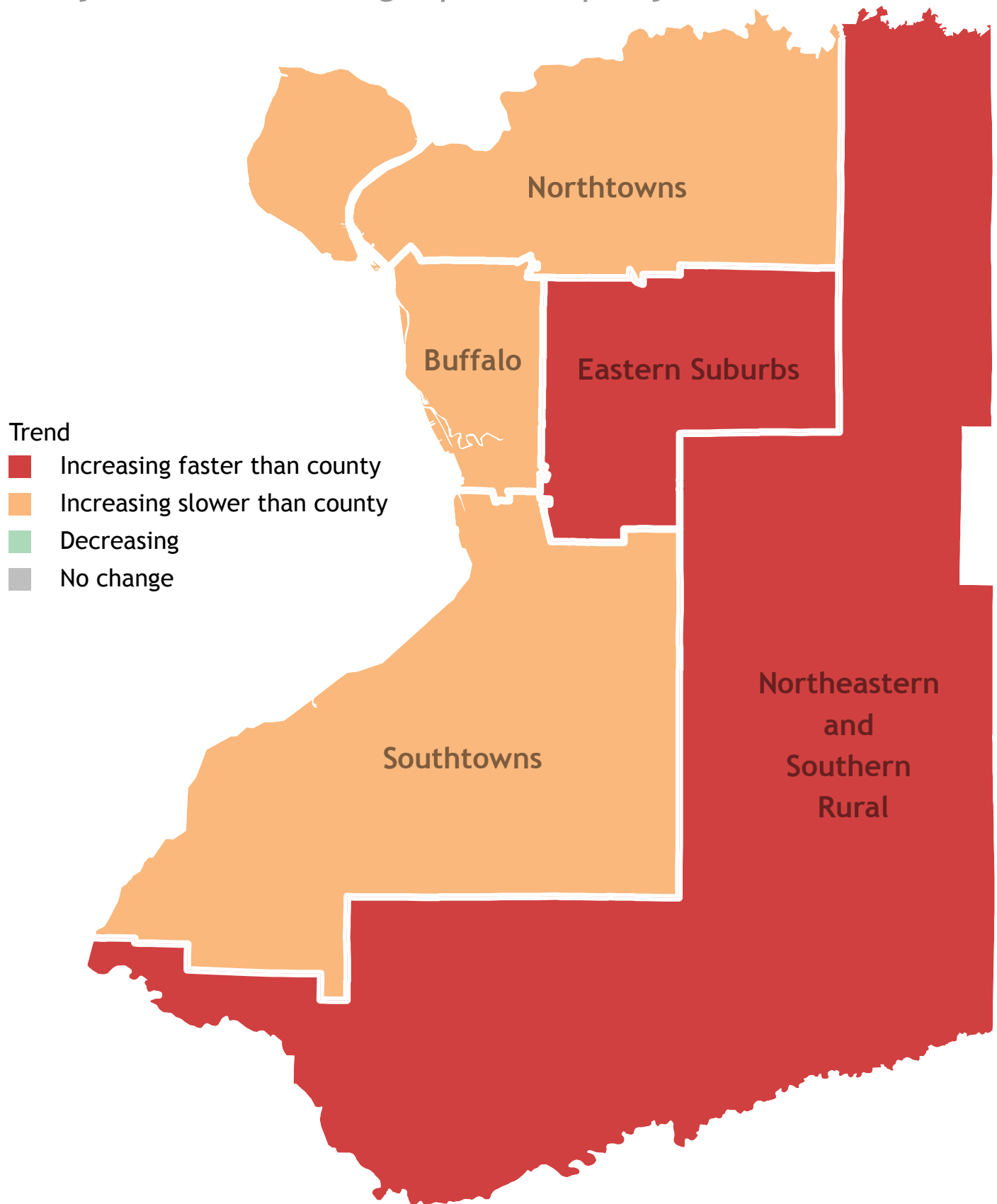


	2009	2010	2011	2012	2013
 Northeastern and Southern Rural	20.12	38.37	44.18	40.25	58.50
 Southtowns	19.60	39.39	38.10	35.47	55.21
 Eastern Suburbs	17.83	40.55	42.22	42.91	60.20
 Northtowns	16.37	33.84	35.13	33.61	48.65
 City of Buffalo	57.31	73.31	76.84	75.29	86.43
 Erie County	27.40	46.17	48.14	46.43	62.29
 Erie County (No Buffalo)	18.10	37.45	39.11	37.55	54.53

# Rate of Poor Grade 8 English

## Performance 2009-2013

*County trend: Increasing 7 percent per year*



# 4. Adolescent Pregnancy Rate

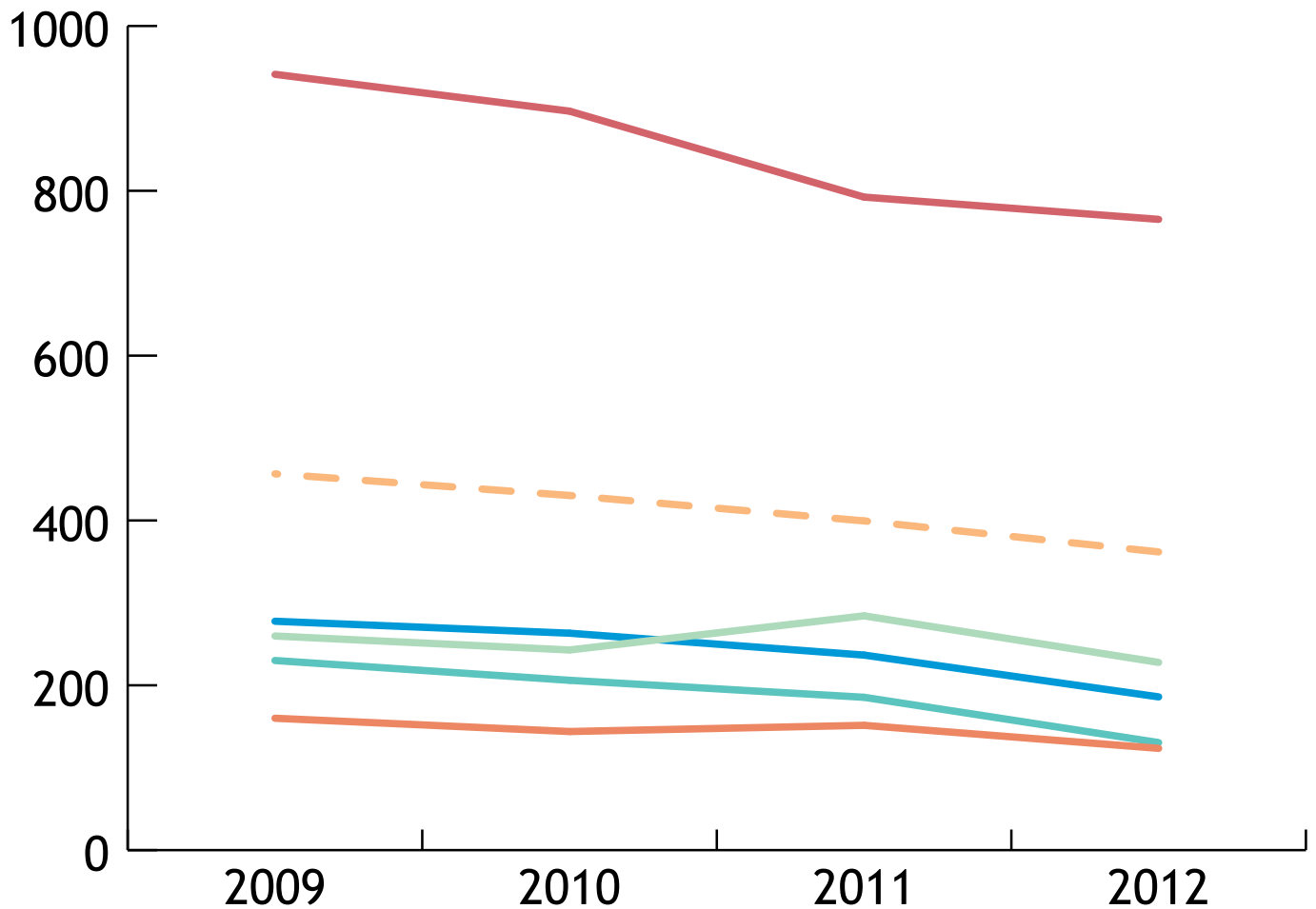
**NOMs Domain:** Reduced Morbidity








**Data Source:** Erie County Department of Health

**Data Description:** Data for the years from 2009 to 2012 were obtained from the Erie County Department of Health of counts of all pregnancies to mothers aged 15 to 19. These data are available at the municipal area spatial scale, so no modification or interpolation was necessary.

**Trend Analysis:** Between 2009 and 2012, the rates of adolescent pregnancy decreased sharply, with the rate in Erie County decreasing over 30 teen pregnancies per 10,000 each year. Though teen pregnancy is highest in the City of Buffalo, the trend there is in sharp decline, with yearly decreases of more than 60 per year.

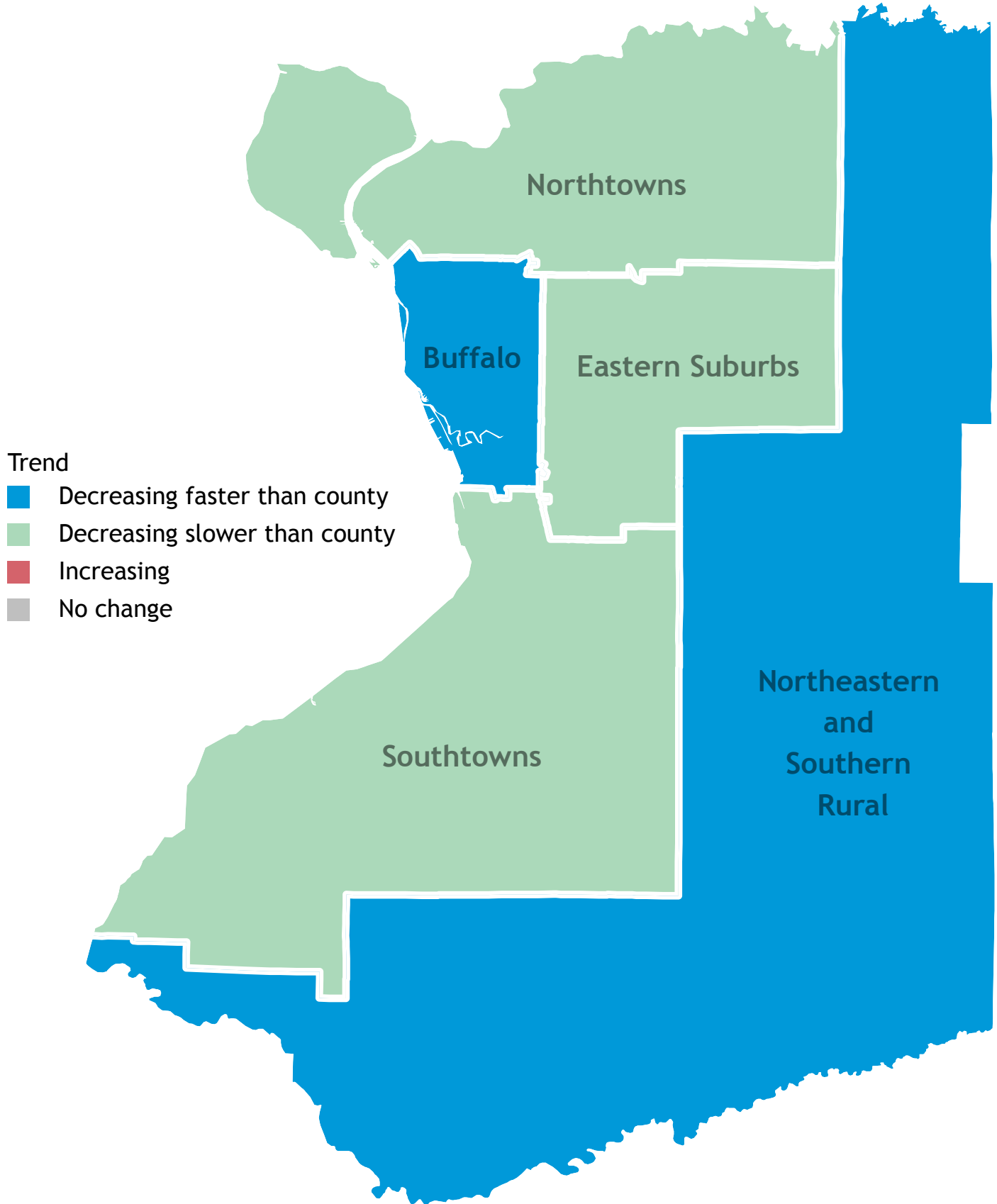
# Adolescent Pregnancy Rate



	2009	2010	2011	2012
 Northeastern and Southern Rural	230.08	206.04	185.44	130.49
 Southtowns	277.71	263.22	236.66	185.95
 Eastern Suburbs	259.79	242.85	284.26	227.79
 Northtowns	160.01	143.90	151.42	123.50
 City of Buffalo	941.34	896.65	792.36	765.36
 Erie County	456.55	430.33	399.48	361.85
 Erie County (No Buffalo)	161.92	204.83	199.29	216.36

# Adolescent Pregnancy Rate 2009-2012

County trend: Decreasing 31.5 pregnancies per 10k eac year





# 5. Property Crime Rate

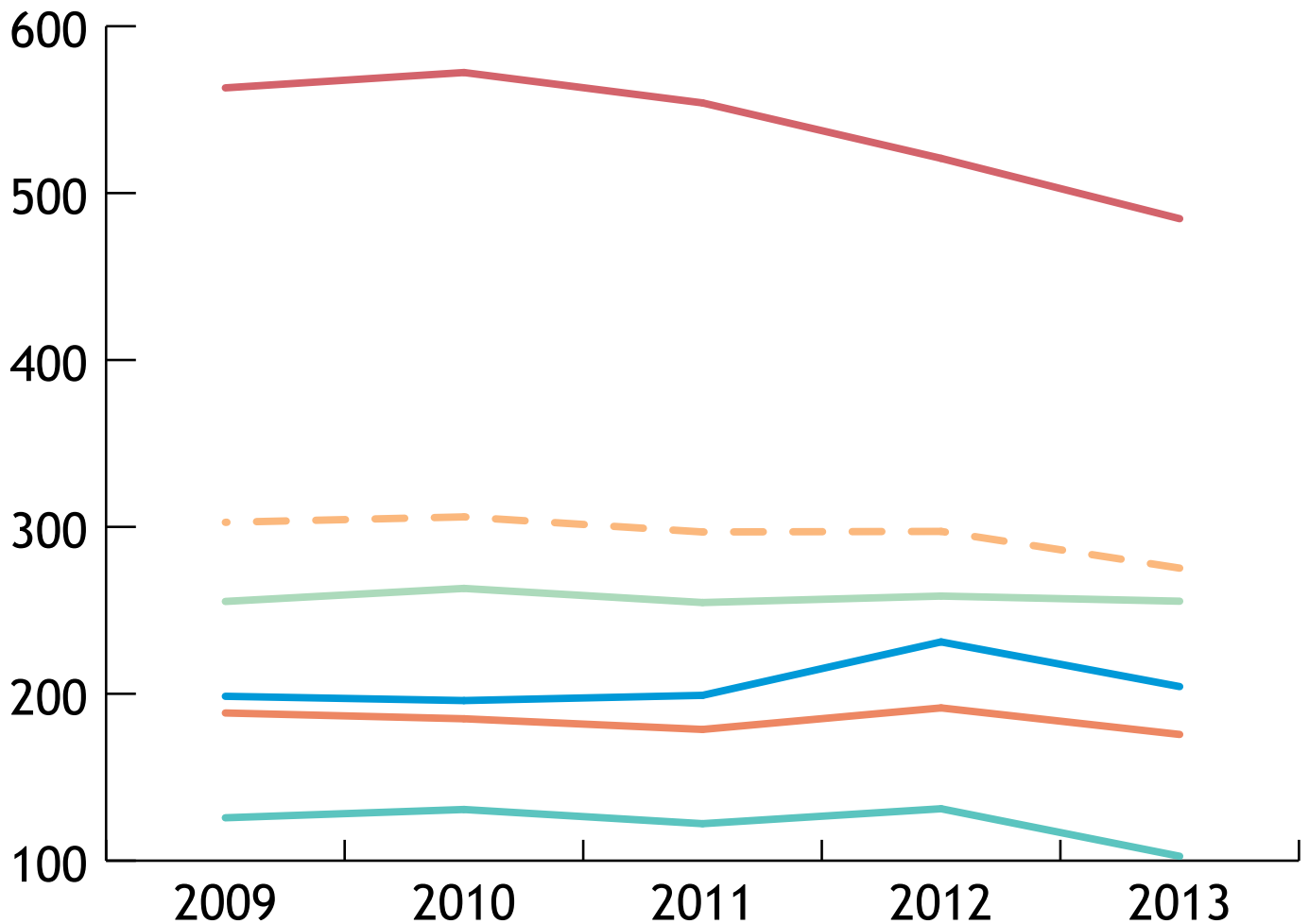
**NOMs Domain:** Crime and Criminal Justice







**Data Source:** NYS Department of Criminal Justice Services (DJCS), Uniform Crime Report

**Data Description:** Data were obtained from DJCS of the counts for reported crimes by jurisdiction. While the native geographies of the data are police jurisdictions, these largely correspond to municipal boundaries, resulting in a relatively straightforward interpolation. Property crimes were used because Central Police Services was not responsive in supplying data on Criminal Mischief, which was our desired Impact Assessment Measure. Property crimes include burglary, larceny, theft, motor vehicle theft, arson, shoplifting, and vandalism and are the closest proxy for our desired measure.

**Trend Analysis:** Property crimes were on the decline in most areas throughout the region between 2009 and 2013, with a decreasing trend of 6.36 crimes per 10,000 people each year. The Southtowns, contrary to other areas in the county, has an increasing trend in property crime, which is the result of a 2012 spike. While the Eastern Suburbs saw a declining trend, this was a decline of less than one per 10,000 people.

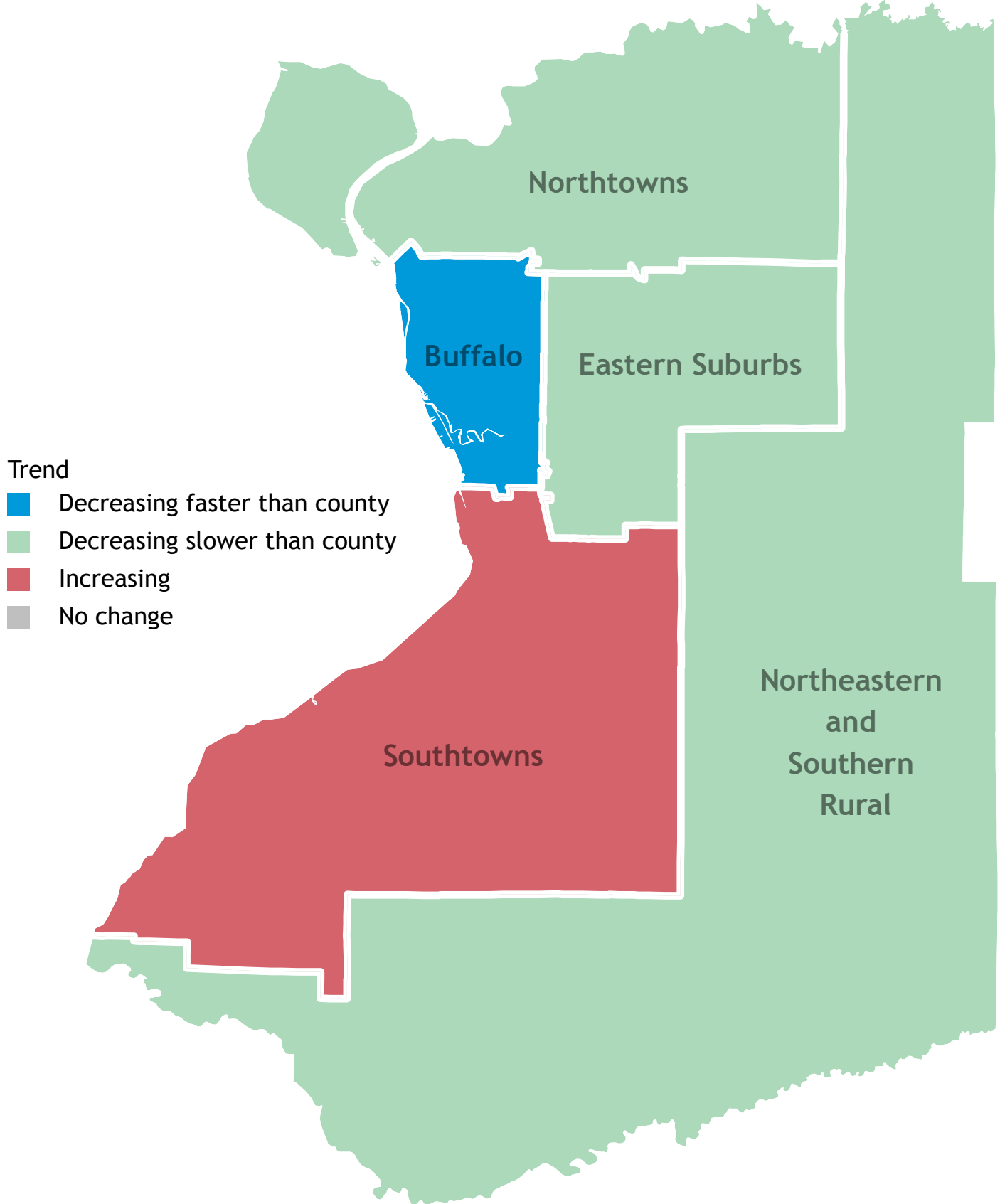
# Property Crime Rate



	2009	2010	2011	2012	2013
 Northeastern and Southern Rural	124.82	129.78	121.28	130.23	101.75
 Southtowns	197.61	195.05	198.18	230.19	203.42
 Eastern Suburbs	254.44	262.24	253.78	257.66	254.58
 Northtowns	187.61	184.15	177.75	190.65	174.75
 City of Buffalo	562.17	571.36	553.16	519.93	483.77
 Erie County	301.85	305.10	296.07	296.41	274.40
Erie County (No Buffalo)	198.36	199.18	193.78	207.28	191.12

# Property Crime Rate 2009-2013

County trend: Decreasing 6.36 crimes per 10k each year



# 6. Trauma Death Rate

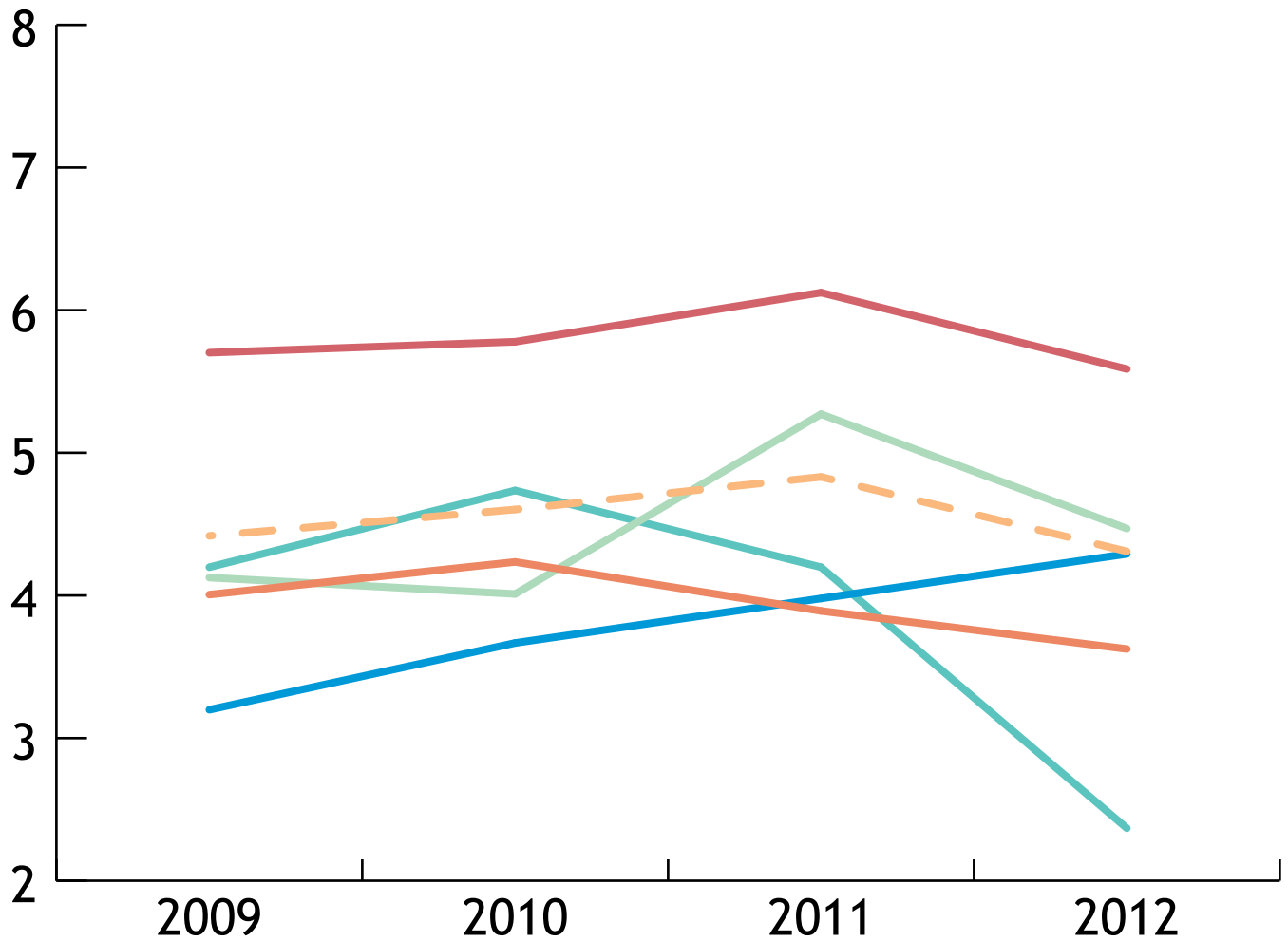
**NOMs Domain:** Reduced Morbidity







**Data Source:** Erie County Department of Health

**Data Description:** Data were obtained from the Erie County Department of Health for counts of deaths from trauma by municipality for the years from 2009 to 2012. These data are available at the municipal area spatial scale, so no modification or interpolation was necessary.

**Trend Analysis:** The rate of traumatic deaths declined slightly throughout Erie County from 2009 to 2012, with a decreasing trend of 0.01 deaths per 10,000 each year. Traumatic deaths were virtually unchanged in the City of Buffalo over the 3-year period.

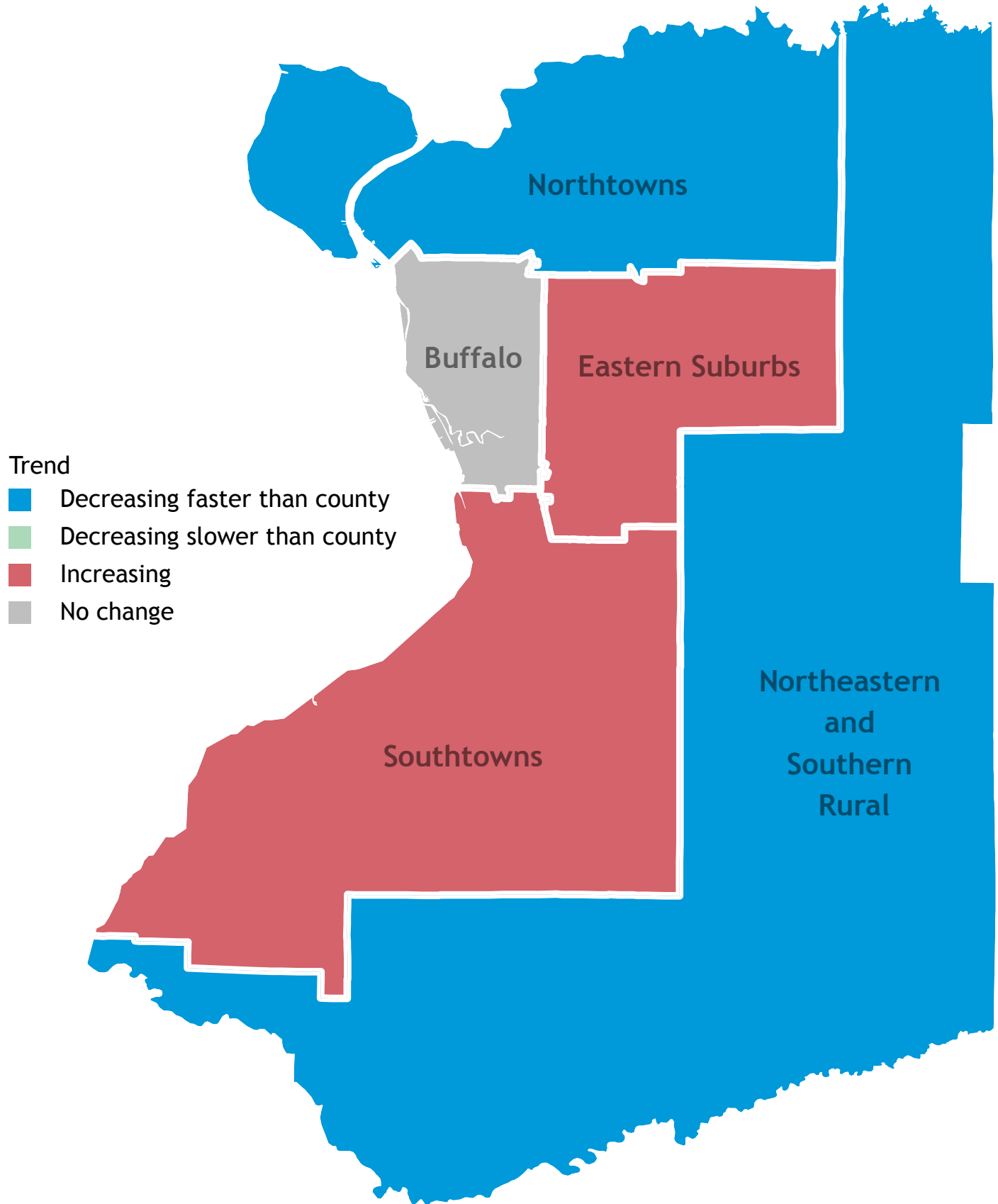
# Trauma Death Rate



	2009	2010	2011	2012
 Northeastern and Southern Rural	4.20	4.74	4.20	2.37
 Southtowns	3.20	3.67	3.98	4.29
 Eastern Suburbs	4.13	4.01	5.27	4.47
 Northtowns	4.01	4.23	3.89	3.62
 City of Buffalo	5.70	5.78	6.12	5.59
 Erie County	4.42	4.60	4.83	4.31
Erie County (No Buffalo)	3.91	4.14	4.32	3.80

# Trauma Death Rate 2009-2012

County trend: Decreasing 0.01 deaths per 10k each year



# 7. Violent Crime Rate

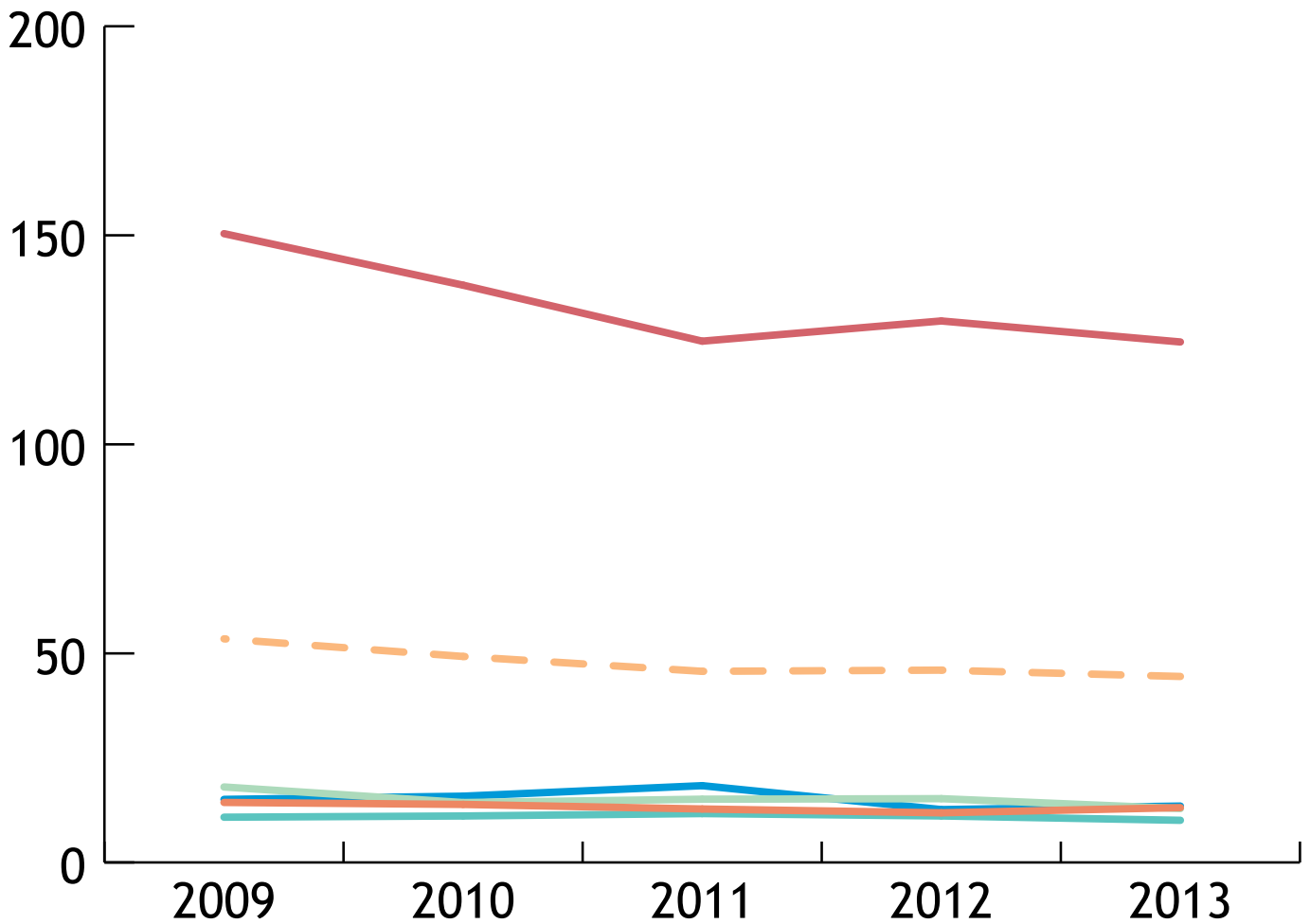
**NOMs Domain:** Crime and Criminal Justice







**Data Source:** NYS Department of Criminal Justice Services (DJCS), Uniform Crime Report

**Data Description:** Data were obtained from DJCS of the counts for reported crimes by jurisdiction from 2009 to 2013. While the native geographies of the data are police jurisdictions, these largely correspond to municipal boundaries, resulting in a relatively straightforward interpolation. Violent crimes include murder, sexual offenses, robbery, and aggravated assault.

**Trend Analysis:** Violent crimes are on the decline in Erie County, with a decreasing trend of 2.13 crimes per 10,000 each year. The largest decreases in violent crimes occurred in the City of Buffalo, which saw a declining trend of 6.04 violent crimes per 10,000 over the four-year period, while other sub-regions in the county saw declining trends of less than 1 violent crime per 10,000.

# Violent Crime Rate

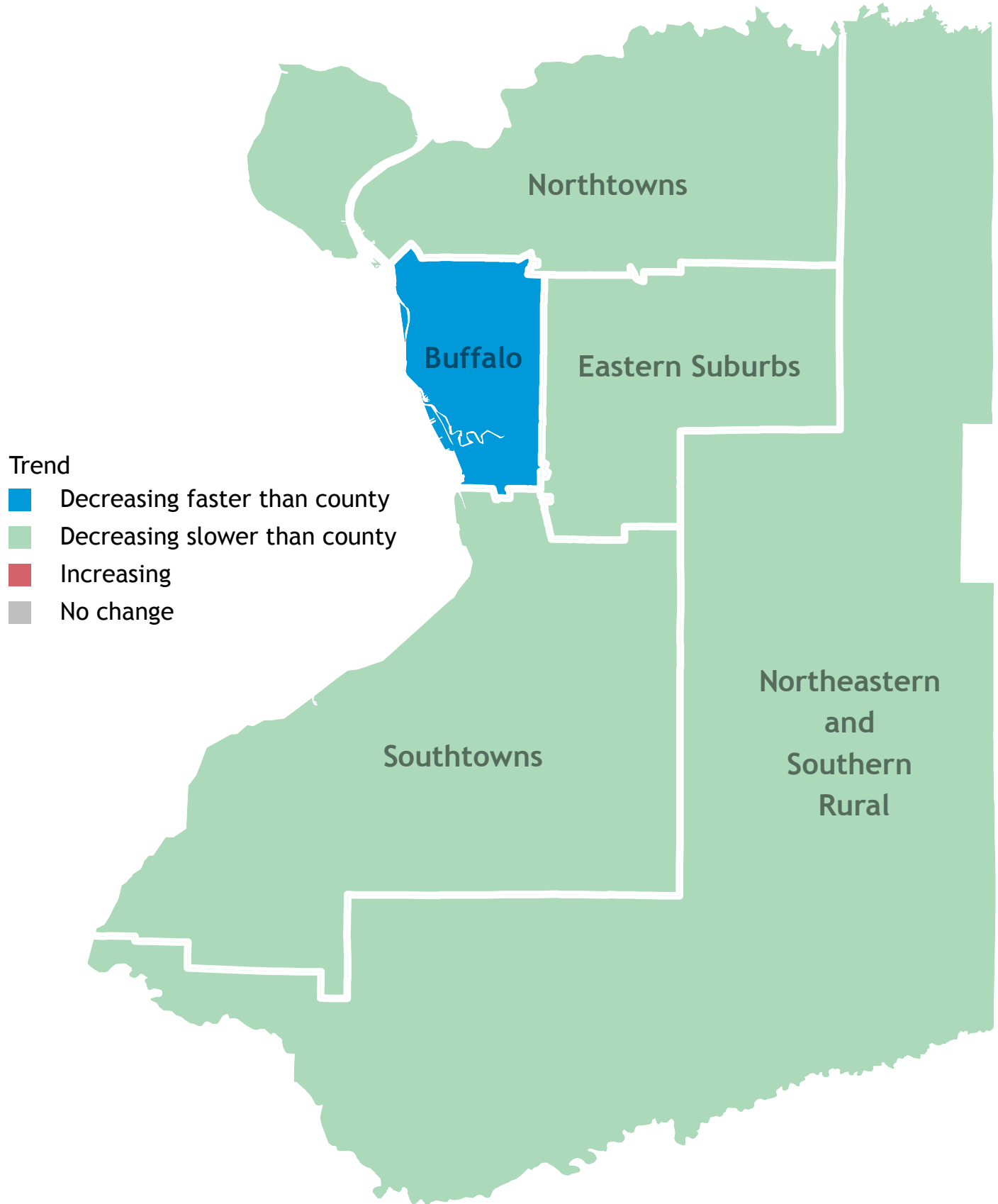


	2009	2010	2011	2012	2013
 Northeastern and Southern Rural	10.82	11.11	11.69	11.12	10.08
 Southtowns	15.08	15.85	18.36	12.64	13.48
 Eastern Suburbs	18.05	14.32	15.13	15.25	12.89
 Northtowns	14.35	13.88	12.78	11.87	13.11
 City of Buffalo	150.40	138.07	124.68	129.51	124.49
 Erie County	53.48	49.27	45.71	45.99	44.48
Erie County (No Buffalo)	14.98	13.99	14.34	12.80	12.70



# Violent Crime Rate 2009-2013

County trend: Decreasing 2.13 crimes per 10K each year



# 8. Juvenile Part 1 Crime Rate

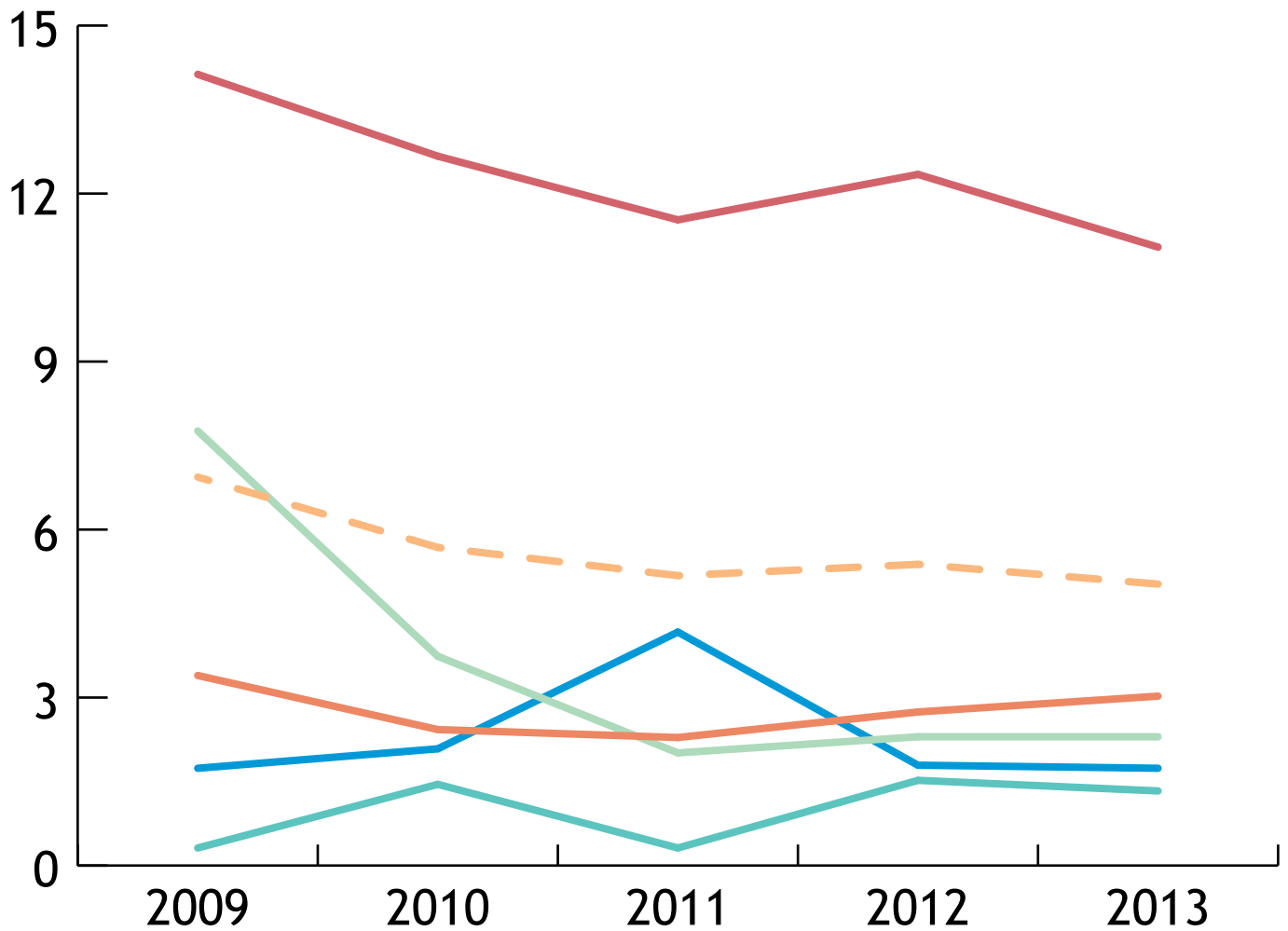
**NOMs Domain:** Crime and Criminal Justice







**Data Source:** NYS Department of Criminal Justice Services (DCJS), Uniform Crime Report

**Data Description:** Data were obtained from DCJS of the counts for reported crimes by jurisdiction between 2009 and 2013. While the native geographies of the data are police jurisdictions, these largely correspond to municipal boundaries, resulting in a relatively straightforward interpolation. Part 1 Crimes are made up of Property and Violent Crimes. Property crimes include burglary, larceny, theft, motor vehicle theft, arson, shoplifting, and vandalism and are the closest proxy for our desired measure. Violent crimes include murder, sexual offenses, robbery, and aggravated assault.

**Trend Analysis:** The juvenile crime rate was on a slight declining trend in the region from 2009 to 2013. The largest downward trends are occurring in Buffalo and the Southtowns, where the juvenile crime rate is declining by nearly 0.2 crimes per 10,000 youth each year.

# Juvenile Part 1 Crime Rate

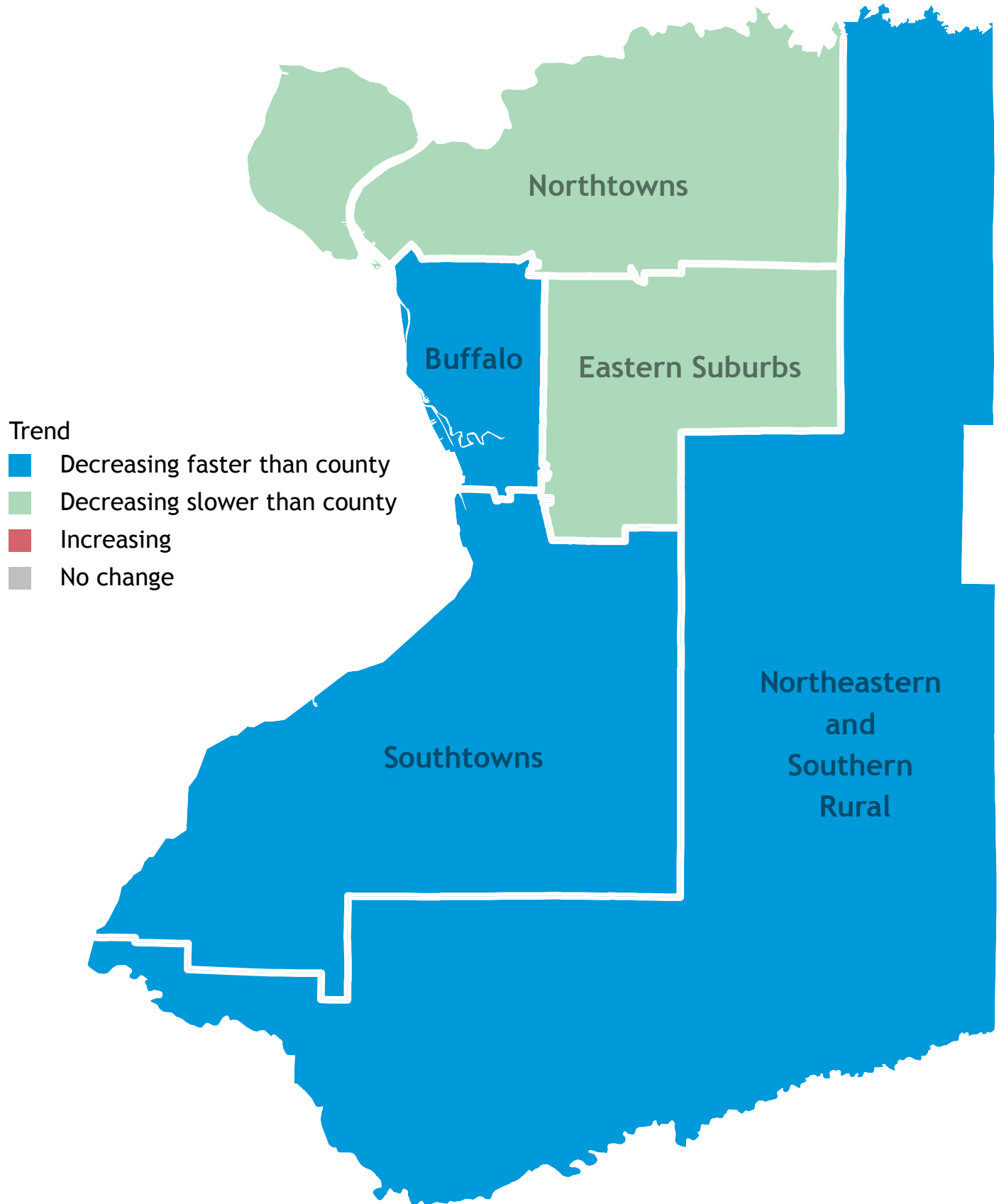


	2009	2010	2011	2012	2013
 Northeastern and Southern Rural	16.98	9.32	17.72	17.71	11.17
 Southtowns	20.50	28.73	17.72	21.80	14.87
 Eastern Suburbs	63.24	112.68	115.27	70.42	69.85
 Northtowns	25.23	30.10	23.85	32.77	21.84
 City of Buffalo	28.74	37.84	30.37	22.90	20.46
 Erie County	31.47	44.69	40.36	33.23	27.75
Erie County (No Buffalo)	94.05	94.57	95.17	95.94	96.84

# Juvenile Part 1 Crime Rate

2009-2013

County trend: Decreasing 0.05 crimes per 10K each year



# Trend Analysis Summary

*Year-on year rates of change, 2009 to present*

Region	Absentee rate	Graduation Rate	Rate of Poor Grade 8 English Performance	Adolescent Pregnancy Rate	Property Crime Rate	Trauma Death Rate	Violent Crime Rate	Juvenile Part 1 Crime Rate
Northeastern and Southern Rural	-0.02	0.12	7.86	-31.94	-0.60	-0.15	-4.57	-0.10
Southtowns	-0.01	0.20	6.73	-30.19	0.36	-0.64	4.68	-0.17
Eastern Suburbs	-0.07	0.66	8.71	-5.46	0.23	-0.94	-0.43	-0.05
Northtowns	-0.07	1.28	6.43	-10.20	-0.15	-0.45	-1.92	-0.01
City of Buffalo	0.00	-0.61	6.02	-63.22	0.00	-6.04	-20.82	-0.17
Erie County	-0.01	0.34	7.00	-31.50	-0.01	-2.13	-6.36	-0.05