AMATS 2040 Planning Data Forecast

May 2015

Table of Contents

Executive Summary

Overall, the AMATS region is expected to experience a slight increase in population (2.4%) between now and 2040. Likewise, the region's employment is expected to see moderate growth (7.6%) over this same planning period. Summit and Portage counties are expected to hold to these same trends, with each experiencing increases in both population and employment.

The rate of growth or decline is often more pronounced at the municipality level, as fluctuations in the historic data tend to cause large swings in long-range forecasts. To moderate these large swings in forecasted data, aggregating the forecasted results of communities within the same geographic area leads to results that appear more in line with recent rates of growth or decline. Through 2040, population growth should be the strongest in the northern portion of Summit County (11.5%) and Northwest Portage County (16.1%). Employment growth is expected to be the strongest in Southern Summit County (33.9%) and Southwest Portage County (10.9%). Generally, employment growth is expected throughout all but the easternmost subareas comprising the AMATS region.

The geographic area of the Wayne County portion of the AMATS region has doubled since previous versions of the Planning Data Forecast, with the inclusion of the City of Rittman and neighboring Milton Township in 2010. On the whole, the Wayne County portion should expect slight population growth (3.1%), as well as moderate employment growth (4.6%) through 2040. The public school enrollment in the Wayne County communities is expected to be the largest in the AMATS region, growing 17.0% over the planning period.

Introduction

One of the most fundamental steps in the regional transportation planning process is the collection, organization and analysis of existing planning-related data. Using this data, the Akron Metropolitan Area Transportation Study (AMATS) can determine where we have been (from a social-economic standpoint), the greater Akron region's current conditions, and perhaps most critical to any planning effort, in what direction we are heading.

Although the most commonly used data items (ex. population or employment data) are gathered and analyzed on an ongoing basis, a greatly expanded effort is undertaken in preparation for each upcoming long-range regional transportation plan. For this reason, the AMATS 2040 Planning Data Forecast has been completed as a necessary precursor to the upcoming long-range plan, Transportation Outlook 2040. In addition to the long-range plan, this data is used for forecasting traffic volumes, which in turn are used for traffic congestion studies, air quality planning and in roadway design efforts.

Two key time periods are examined during the planning data forecast process: the base year of 2010 and the planning period year of 2040. 2010 data generally comes from either the most recent U.S. census or from American Community Survey (ACS) data – both of which are produced by the U.S. Census

Bureau. Using a variety of established methodologies, this 2010 data is forecasted out to the plan year of 2040. Projection methodologies vary depending on the nature of each variable, and each will be fully detailed in its respective section of this report.

The AMATS 2040 Planning Data Forecast projects 35 variables, each of which has a direct impact on local traffic and is therefore required for input into the regional traffic demand model. These variables include:

Population
Households
Population Under 18
Vehicles
Workers
Employment (25 categories)
Public School Enrollment (K-12)
Private School Enrollment (K-12)
Group Quarters
Hotel Rooms
Median Household Income

The AMATS region is divided into 835 traffic analysis zones (traffic zones or TAZ). These traffic zones are used by the regional traffic demand model to generate traffic volumes and to determine where trips begin and end. The model requires that each of the 35 variables be provided for each traffic zone – for the base year 2010 and plan year 2040.

The two exceptions to the distribution of data by traffic zone are the City of Rittman and Milton Township in the Wayne County portion of the AMATS region. As a result of the 2010 census, these two communities were added to the Akron metropolitan area – the first expansion of the AMATS region's geographical footprint since 1978. However, the elongated protrusion that these communities add to the AMATS region's footprint forms a shape that does not work well with the algorithms used by the regional traffic demand model. For this reason, traffic zones have not been assigned to these communities, and TAZ-level data is unavailable.

The AMATS 2040 Planning Data Forecast places the 35 planning variables into three categories: population-based, employment-based and stand-alone variables. For each variable, this report will explain the sources of the underlying data and the methodology used to generate 2040 forecasts. In Part IV of this report, the data representing each of the 35 planning variables will be presented by subarea.

A Note on the Interpretation of Projections

Although AMATS makes its best attempt to project future data based on recent historic trends, there is no "crystal ball" to perfectly ascertain future growth. Every attempt has been taken to incorporate data from the most reliable data sources into the analyses contained within this report. With a long, 30 year time horizon, even minor fluctuations in any given historic year can significantly affect the expected future outcome at the individual community level. Major fluctuations can *dramatically* alter the projected totals.

To smooth out these data fluctuations, as well as to resolve problems of redundancy (i.e. where census tracts or TAZs include portions of more than one municipality), AMATS has aggregated TAZ-level data - for every variable - into eight different subareas. These subareas reflect the shared growth characteristics of the political units within the same geographic area. In addition, data has been presented at the regional and county levels, as well as for three specific larger cities: Akron, Barberton and Cuyahoga Falls. The data from these three communities is *not* included in the subarea data. The following is a breakdown of the levels in which data has been presented for this analysis:

Forecasting Levels Breakdown	
REGIONAL	
AMATS Region	
COUNTY	
Summit County, Portage County	
SELECT CITIES	
Akron, Barberton, Cuyahoga Falls	
SUBAREAS	
Northern Summit	Boston Heights, Boston Twp, Hudson, Macedonia, Northfield Village, Northfield Center Twp, Peninsula, Reminderville, Richfield Village, Richfield Twp, Sagamore Hills, Twinsburg, Twinsburg Twp
Central Summit	Bath Twp, Copley Twp, Fairlawn, Munroe Falls, Silver Lake, Stow, Tallmadge
Southern Summit	Clinton, Coventry Twp, Green, Lakemore, Mogadore, New Franklin, Norton, Springfield Twp
Northwest Portage	Aurora, Mantua Village, Mantua Twp, Shalersville Twp, Streetsboro, Sugar Bush Knolls
Northeast Portage	Freedom Twp, Garrettsville, Hiram Village, Hiram Twp, Nelson Twp, Windham Village, Windham Twp
Southwest Portage	Brady Lake, Brimfield Twp, Franklin Twp, Kent, Mogadore (Portage), Randolph Twp, Ravenna, Ravenna Twp, Rootstown Twp, Suffield Twp, Tallmadge (Portage)
Southeast Portage	Atwater Twp, Charlestown Twp, Deerfield Twp, Edinburg Twp, Palmyra Twp, Paris Twp
Wayne Portion	Chippewa Twp, Doylestown, Milton Twp, Norton (Wayne), Rittman

While performing the various data analyses required for the Planning Data Forecast, AMATS generally allows historic data points to paint the picture of what may be expected in 2040. The direct intervention and alteration of data has been used on a limited basis, and only in the most egregious circumstances.

One final point to those who may be concerned about the under or over-performance of a certain subarea or city in regards to one or more variables: in adherence to the AMATS "Fix-it-First" policy, project selections are not based solely on projected variables and future congestion. A community faces no threat of reduced project consideration or funding based on the results of these analyses. Therefore, the 2040 projections contained within should not be interpreted as inevitable future results. Rather, they should be looked at as a potential future outcome should recent growth trends persist.

Part I: Population-Based Variables

Population

Data Sources

To analyze the AMATS region's population growth over the 30 year planning horizon, three primary data sources were used:

- County-level 2040 population projections provided by the Ohio Development Services Agency
- Historic data gathered from the last two U.S. Census periods (2000 and 2010)
- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data

Methodology

As an input into the upcoming long-range regional transportation plan, the AMATS Planning Data Forecast has forecasted the AMATS region's population to the year 2040, using a base year of 2010. 2010 data was selected as the base year because of its being the most recent decennial census, and therefore, not only is a wealth of data available, but that data is considered highly reliable.

To begin the process, AMATS acquired county-level 2040 projections independently calculated by the Ohio Development Services Agency (ODSA). Although AMATS' internal population forecasts are not required to match the state projections precisely, they must remain reasonably close in order to maintain consistency between state and local agencies. An over or under estimation of the region's population would produce unrealistic outcomes in the regional traffic demand model – which is largely maintained by the Ohio Department of Transportation (ODOT). AMATS' primary task is to allocate its internal population projections among the 835 traffic zones that comprise the greater Akron region.

To project 2040 populations, the historic population data from the U.S. Census Bureau was gathered for every municipality and township in the AMATS area for the years 2000 and 2010 (the most recently available at the time of the analysis). Previous analyses incorporated annual data from the American Community Survey (ACS), but due to large data swings and inconsistencies, AMATS determined that limiting its analyses to full 100% decennial census data resulted in more accurate forecast results. Using these past population totals as data points, the percentage change in population between 2000 and 2010 was calculated for each community, and then that same percentage was assumed to hold steady through 2040. The 2010 population for each community was multiplied by this percentage to arrive at an estimate for 2040. The 2040 projections for each community were then aggregated into the appropriate subareas, as presented in Part IV of this report.

TAZ level data is an important input into the regional traffic model. AASHTO's CTPP data was used to gather 2010 population data at the TAZ level. After determining the community-level anticipated growth rate, the community growth rate was applied to the 2010 population for each TAZ to derive the 2040 population data by TAZ.

Key Observations

- Holding true to similar recent population observations, the AMATS region is expected to experience a slight population increase (2.4%) over the 30 year period between 2010 and 2040

- Summit and Portage Counties are expected to see similar, slight population growth (0.8% and 7.5%, respectively) over the planning period. The Wayne County portion could also experience slight growth (3.1%) in its population

- The greatest population growth is expected in the extreme northern portion of the region. One impetus for this growth is likely due to the convenient location between two metropolitan regions – Akron and Cleveland – that these subareas offer their residents

Households

Data Sources

To project the number of households anticipated by 2040 in the AMATS region, two primary data sources were used:

- 2010 American Community Survey (ACS) data
- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data

Methodology

According to the U.S. Census Bureau, a household is defined as a group of people who occupy a housing unit as their usual place of residence. The number of households within an area has a direct impact on local traffic volumes, and is therefore an important input into the regional traffic demand model. AASHTO's CTPP data source provided the 2010 number of households data at the TAZ level. Since TAZs do not always follow political unit boundaries, they may include more than one community. To double check the accuracy of 2010 household data, AMATS gathered the "number of households" data at the community level from the Census Bureau's ACS website, so that it could be cross-checked with CTPP data and serve as a control total. Any discrepancies were smoothed by reallocating households according to that TAZ's proportional share within each community.

Once the 2010 number of households was calculated for each AMATS community and TAZ, the 2040 projection process could begin. The previously calculated 2010 population by TAZ was divided by the 2010 number of households to determine the average household size for each TAZ. Next, the 2040 projected population by TAZ was divided by its average household size (average household size was assumed to remain constant through 2040) to determine the number of households in 2040. Finally, these households were aggregated into their appropriate geographic subareas.

Key Observation

- Due to the underlying methodology, the growth or decline of a subarea's number of households generally follows its population growth. The only examples of forecasted households moving inversely with population growth is at the Summit County and Northeast Portage subarea levels, where slight declines in the number of households may occur (-0.4% and -0.5% respectively). These differences are largely due to communities exhibiting average household sizes relative to the population that vary significantly from the majority of the other communities comprising that subarea.

Population Under 18

Data Sources

To forecast the population under the age of 18 expected by 2040 in the AMATS region, two primary data sources were used:

- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data
- Previously calculated 2040 population by TAZ figures, which were based on U.S. Census data

Methodology

CTPP data provided the raw numbers for the 2010 population in each TAZ that was under the age of 18 – a necessary input into the regional traffic model. Using the total 2010 population for each TAZ, the percentage of each TAZ's under 18 population was calculated. Assuming that the percentage of under 18 population would remain constant through 2040, the 2010 rate was multiplied by the previously calculated 2040 forecasted total population by TAZ to determine the 2040 under 18 population for each TAZ. The TAZ-level data was then aggregated into the appropriate subareas.

Key Observation

- Because of the underlying methodology, the forecasted populations for those under the age of 18 are positively correlated with the overall population rate of growth/decline over the planning period

Number of Vehicles

Data Sources

To forecast the number of household-based (i.e. non-commercial) vehicles expected by 2040 in the AMATS region, two primary data sources were used:

- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data
- Previously calculated 2040 number of households by TAZ figures, which were based on U.S. Census and CTPP data

Methodology

CTPP data provided the raw numbers for the number of household-based vehicles by TAZ in 2010, which is an important input into the regional traffic model. For each TAZ, this number of vehicles was divided by the 2010 number of households (also using CTPP data) to determine a rate for the number of vehicles per household. It was assumed that the number of vehicles per household rate would remain constant through 2040, so the rate was multiplied by the previously calculated 2040 number of households by

TAZ to derive an expected number of 2040 vehicles for each TAZ. Similar to all other variables, TAZ-level data was then aggregated into the appropriate subareas.

Key Observation

- Because of the underlying methodology, the forecasted number of vehicles in each TAZ is tied very closely with the overall population rate of growth/decline over the planning period. The only exception is in Summit County, where the number of vehicles is projected to decline slightly, despite anticipated population growth

Number of Workers

Data Sources

To project the number of workers expected by 2040 in the AMATS region, two primary data sources were used:

- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data
- Previously calculated 2010 and 2040 population by TAZ figures

Methodology

The Census Bureau defines workers as people who reside within a community, are 16 years or older and who did any work for pay. Workers may be employed in a community other than the one in which they live. CTPP data provided the raw numbers of workers by TAZ in 2010. For each TAZ, the 2010 number of workers was divided by the 2010 total population of the TAZ to determine the percentage of the population within that TAZ that could be classified as "workers". Assuming that this rate would hold steady through 2040, this 2010 rate of workers per TAZ was multiplied by the previously calculated 2040 population by TAZ to determine the number of workers in each TAZ in 2040. This TAZ-level data was then aggregated into the appropriate subareas.

Key Observation

- As is the case for most of the other population-based variables, the number of 2040 workers is closely related to the overall population growth rate, due to the underlying methodology. Again, the sole exception is in Summit County. This is due to the presence of TAZs that contain worker to population ratios that are disproportional to surrounding TAZs.

Part II: Employment-Based Variables

Employment

Data Sources

To analyze the AMATS region's employment growth over the 30 year planning horizon, the following data sources were used:

- The U.S. Census Bureau's interactive "On the Map" tool, which provided 2002 – 2011 (the most recently available at time of analysis) historic employment by industry for every census tract
- The American Community Survey's (ACS) "American Fact Finder" tool
- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data

Methodology

As an input into the upcoming long-range regional transportation plan, AMATS has forecasted the region's employment to the year 2040, using a base year of 2010. 2010 data was selected as the base year because of its being the most recent decennial census, and therefore, not only is a wealth of data available, but that data is considered highly reliable.

The first step in the process was gathering recent historic employment data, by industry. Various sources have been used for this data in previous versions of the AMATS Planning Data Forecast, but due to previous issues regarding errors and the validity of the data, a new primary source was used for the current analysis. The U.S. Census Bureau's "On the Map" tool was used to gather employment data for the years 2002 through 2011. This data was collected for every census tract within the AMATS area, and was pulled for each of the 25 available industries. Employment industry data is differentiated by its North American Industry Classification System (NAICS) code, as identified in the following table:

NAICS Industry Codes	
Code #	**Industry Description**
NAICS 11	Agriculture, Forestry and Hunting
NAICS 21	Mining
NAICS 22	Utilities
NAICS 23	Construction
NAICS 31-33	Manufacturing - Aggregated
NAICS 42	Wholesale Trade
NAICS 44-45	Retail Trade - Aggregated
NAICS 48-49	Transportation and Warehousing - Aggregated
NAICS 51	Information
NAICS 52	Finance and Insurance
NAICS 53	Real Estate and Rental and Leasing
NAICS 54	Professional Scientific and Technical Services
NAICS 55	Management of Companies and Enterprises
NAICS 56	Administrative Support, Waste Management and Remediation Services
NAICS 61	Education Services
NAICS 62	Health Care and Social Assistance
NAICS 71	Arts, Entertainment and Recreation
NAICS 72	Accommodation and Food Services
NAICS 81	Other Services (except Public Administration)
NAICS 92	Public Administration
NAICS 99	Other*

**Note – the source provided no data for the NAICS 99 "Other" category. The number of jobs within this industry code has typically been negligible in previous analyses.*

After gathering annual employment totals for each industry, by census tract, three forecasting methodologies were used to forecast data through the year 2040. The methodology that generated the most reasonable 2040 employment results - based on historic trends and a planning-level analysis of each census tract – was the one used to produce the official 2040 employment totals. Typically, one census tract includes multiple traffic zones. To determine employment by industry at the TAZ level, the proportion of employment was calculated for each TAZ (using CTPP data), and the census tract employment numbers were distributed based on this proportion.

As mentioned in the introduction, large changes in recent historic data tended to create enormous changes in the projected values – some of which were determined to be unreasonable. An example might include a single large factory closure causing a reduction of 600 manufacturing employees in a census tract in the calendar year 2008. This recent decrease alone could create a "trend line" that would predict a sharp overall reduction in manufacturing jobs – and sometimes even negative employment – by 2040. The most severe of these instances were smoothed using a variety of techniques. Since the traditional linear regression formula does not function well when large data fluctuations exist, a 10-year

rolling average methodology was used to forecast most employment figures. This technique smoothes fluctuations and outlier data, and produced employment forecasts that more realistically fit with the overall growth trends experienced by the AMATS region.

Once employment was calculated and distributed by TAZ, the totals were aggregated by subarea. The final employment projections may be found in Part IV of this report.

Key Observations

- In the most subareas, employment growth is expected to outpace the population growth projections

- The AMATS region is expected to see steady job growth. The number of workers is also expected to grow, but not at the same rate. The region will continue to attract non-residents to meet the demand of a healthy jobs market through 2040

- Both Summit and Portage Counties are likely to experience moderate employment growth (8.1% and 5.4%, respectively) over the 30 year period. The Wayne County portion should also experience a modest increase in employment (4.6%) over the same period

Part III: Stand-Alone Variables

School Enrollment (K-12)

Data Sources

The State of Ohio publishes comprehensive enrollment reports for both public and private schools. To forecast the number of students expected in 2040, the following sources were used:

- Ohio Department of Education 2010 public and non-public school enrollment reports
- U.S. Census Bureau – population under age 18 by community
- The American Association of State Highway and Transportation Officials' (AASHTO) Census Transportation Planning Products (CTPP) data
- Various school and board of education websites for verification purposes

Methodology

AMATS analyzes K-12 student enrollment as two separate variables: private and public school enrollment. To begin the data forecasting process, 2010 enrollment data was gathered using reports published by the Ohio Department of Education. The street address for each school was determined and overlayed with the AMATS traffic zones in GIS to allocate enrolled students by TAZ.

Many school districts in the region are in the midst of closing, consolidating and/or constructing new school facilities. Research was completed to determine which schools were affected, and how best to re-allocate 2010 students to these new facilities. The analysis only included changes that had been completed or were imminent as of 2014, and assumed all other buildings would remain unchanged through 2040. Public school open enrollment is difficult to track and was presumed to be a minor factor, and therefore omitted from this analysis.

Public School Forecast
Once 2010 data had been established for public schools, each school building's enrollment was multiplied its corresponding community's "under age 18" growth rate between 2010 and 2040, using Census and CTPP data. This resulted in a 2040 enrollment figure at the TAZ level. The TAZ level data was then aggregated and presented at the subarea level.

Private School Forecast
Private schools typically draw students from a wide geographic area and are not subject to school district boundaries, so rather than using the local community's growth rate, an average national rate provided by the National Center for Education Statistics was used, and presumed to hold steady through 2040. The 2010 enrollment total for each private school in the AMATS area was multiplied by this national rate (-1.23%) to determine a 2040 enrollment estimate.

Key Observations

- Private school enrollment is expected to remain virtually unchanged, with an expected 1.2% decrease over the 30 year planning period

- Public schools at the regional and county levels will likely experience slight decreases over the planning period. The Wayne County portion of the AMATS region is expected to see the greatest increase in public school enrollment, with a 17.0% increase over the planning period

- At the city and subarea levels, school enrollment varies widely, and often functions independently of the area's overall population growth rate. This is particularly the case in more rural school districts, where much of the student population comes from outside municipalities

Group Quarters

Data Sources
To project the number of residents living in group quarters by 2040, the following data sources were used:

- The American Community Survey's (ACS) "American Fact Finder" tool
- Various institutional websites and reports for resident count and verification purposes

Methodology

Group quarters include college dormitories, jails and similar detention centers, and nursing homes. 2010 data was not available at the TAZ level, so it had to be manually calculated. As a first step, ACS data was utilized to determine the number of people residing in group quarters, as of 2010, by census tract. Most census tracts contain multiple traffic zones, so the total number of residents within each tract needed apportioned to the traffic zones within that tract. To accomplish this, aerial photos and online mapping programs were used to identify all group quarters facilities, which were then overlayed in GIS to determine which TAZ the facility fell in. Using university student housing reports, inmate population reports and nursing home websites, the populations were distributed among the traffic zones. If a tract contained a group quarters population (usually very small ones) and no group quarters facility could be identified, the total census tract population was divided evenly among all traffic zones within the tract.

Since group quarters populations are not related to the surrounding local community (i.e. students, inmates and nursing home residents may come from anywhere), the 2010 group quarters population was simply multiplied by the AMATS region's general 2010-2040 growth rate (2.4%) to determine each TAZ's 2040 group quarters population. These populations were then aggregated into the appropriate subareas.

Key Observations

- As would be expected, traffic zones in university areas (Kent State, University of Akron, Hiram College, etc.) and where prisons are found (Akron, Shalersville Twp) have significant populations living in group quarters

- Nursing homes are distributed evenly throughout the AMATS area, many of which house significant group quarters populations

Hotel Rooms

Data Sources

To forecast the number of hotel room available in the AMATS region by 2040, the following data sources were used:

- Various hotel and travel industry websites to identify hotels and their room inventories
- Press releases regarding planned and/or pending hotel construction

Methodology

AMATS conducted research to identify every hotel in the region, as well as to determine the total number of rooms at each of these hotels – a required input into the regional traffic demand model. Once hotels and their addresses were identified, they were overlayed in GIS to determine which traffic zone housed each hotel. All hotels and room inventories existing as of 2010 were assumed to exist unchanged through 2040.

In addition to existing hotels, hotels that were under construction or in the planning phases were included in the 2040 totals. Examples include the major hotel under construction in downtown Akron's Northside neighborhood and a proposed convention center hotel near Greystone Hall, also in downtown Akron.

Finally, AMATS added rooms (based on the average number of rooms in recently completed hotel projects) to certain high-growth traffic zones in which future hotel development seems likely. These areas include:

- Boston Heights – planned development area in the vicinity of the Ohio Turnpike, State Route 8 and East Hines Hill Rd. A major hotel is a key project identified in a recently completed area plan.
- Brimfield Township – the rapidly growing commercial area at the intersection of I-76 and County Road 18. Planned improvements for this intersection should improve already excellent highway access and visibility from the interstate, and the area seems a likely place for the construction of a hotel.
- Green – Akron-Canton Airport vicinity. Great highway access, abundant developable land and a rapidly growing airport make the development of hotels along Lauby and/or Greensburg Roads highly likely in the future.
- Rootstown – NEOMED campus area. The rapidly growing medical sciences campus and surrounding area benefits from excellent access to I-76, yet no hotels currently exist in the immediate vicinity. The potential for a hotel project seemed highly likely.

Key Observations

- Despite the areas of anticipated growth listed above, some industry experts feel that the Akron metropolitan region's hotel market is oversaturated. This would indicate that new hotel growth is expected to be slow through 2040

- Overall, the region could expect a 17.2% growth rate in its hotel room inventory between 2010 and 2040

Median Household Income

Data Source

To determine the median household income by census tract, the following data source was used:

- The American Community Survey's (ACS) "American Fact Finder" tool

Methodology

The 2010 median household income was determined for every census tract within the AMATS region, using data provided by the American Community Survey. This median household income was assumed

to be consistent among every traffic zone within that census tract. For traffic zones that crossed into multiple census tracts, an average was calculated, and that average of median household incomes was assigned to that particular TAZ.

Due to the difficulty in forecasting median household income over long term periods, this version of the AMATS Planning Data Forecast – like previous versions – holds the income level steady through 2040.

Key Observation

- Although income levels vary widely among subareas, the overall AMATS region's income level is very similar to those of each county within the area – Summit, Portage and the Wayne County portion

Part IV: Forecast Results

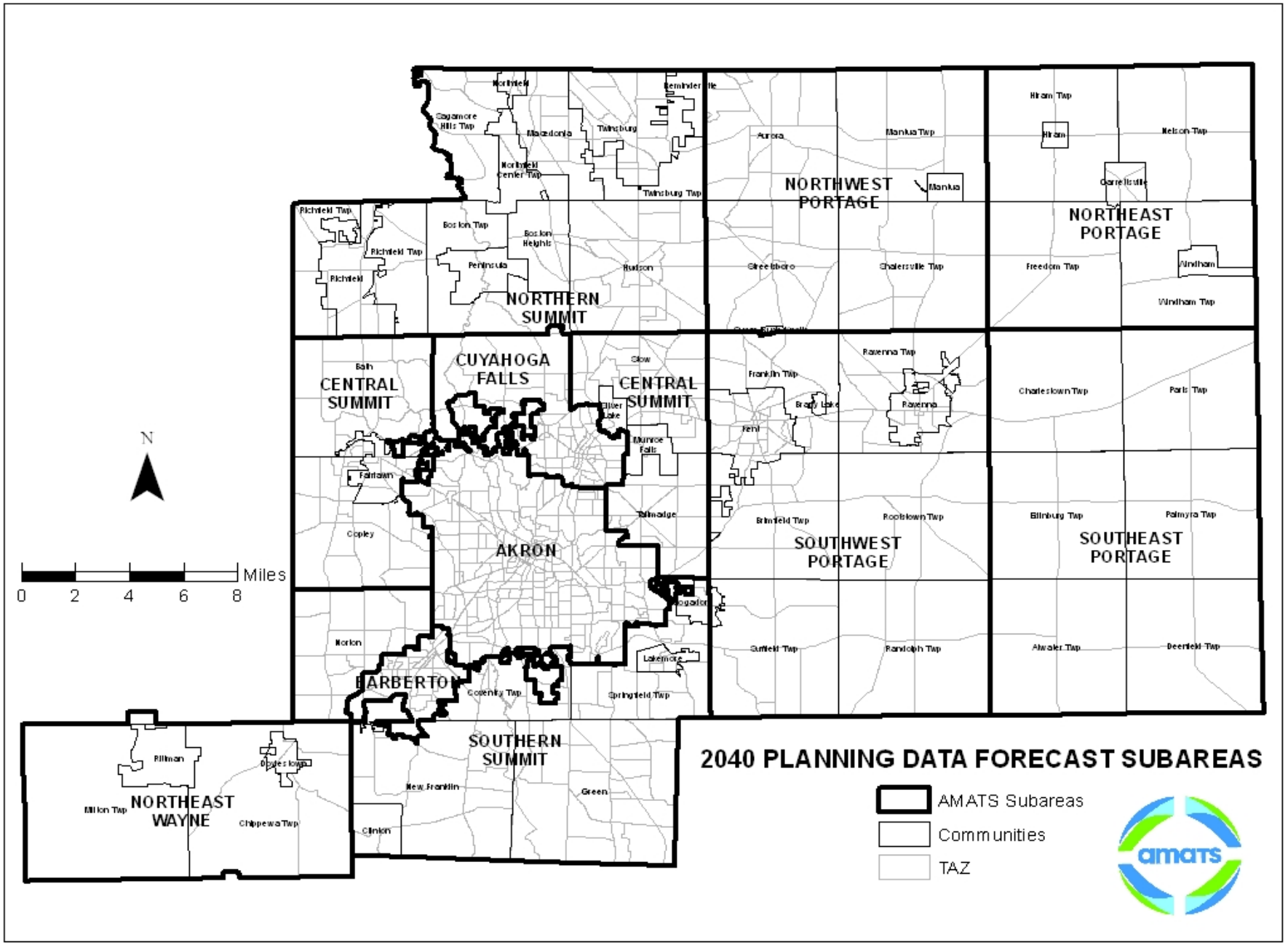
The following tables present the results of the various analyses conducted as part of the Planning Data Forecast process. All 35 variables have been forecasted for the AMATS region, at the county level, for three significant cities and eight subareas. Employment data has been summarized by NAICS code.

Each table includes 2010 base year data, as well as the data forecasted through the plan year of 2040. Although full details regarding data sources and methodology are available for each variable in the previous sections of this report, nearly all 2010 data has been collected from various sources and tools published by the U.S. Census Bureau. The State of Ohio provided important base year data as well.

Although data has been cross-checked for as much consistency as possible, certain situations prevent the perfect reconciliation of totals between different variables and/or subareas. Some of these situations include, but are not limited to:

- Rounding error
- Overlap between geographical boundaries (municipal/TAZ/census tract/etc.)
- The necessity of using different data sources within the same analysis due to data gaps or unavailability
- Internal efforts to smooth untenable forecasted totals

The following pages include a map illustrating the political units, subareas and traffic analysis zones that were considered as part of this analysis, as well as a presentation of the variables for each of these geographic areas.


NORTHWEST PORTAGE
NORTHEAST PORTAGE
NORTHERN SUMMIT
CUYAHOGA FALLS
CENTRAL SUMMIT
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2040 PLANNING DATA FORECAST SUBAREAS
AMATS Subareas
Communities
TAZ
amats

TOTAL AMATS AREA				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	722,788	739,797	2.4%	
Households	292,511	296,663	1.4%	
Population Under 18	161,854	165,842	2.5%	
Vehicles	339,775	345,617	1.7%	
Workers	343,982	350,072	1.8%	
Employment				
NAICS 11	445	437	-1.8%	Agriculture, Forestry and Hunting
NAICS 21	223	349	56.5%	Mining
NAICS 22	2,191	2,274	3.8%	Utilities
NAICS 23	10,453	12,166	16.4%	Construction
NAICS 31-33	37,240	40,554	8.9%	Manufacturing - Aggregated
NAICS 42	16,721	16,992	1.6%	Wholesale Trade
NAICS 44-45	37,359	39,260	5.1%	Retail Trade - Aggregated
NAICS 48-49	9,776	13,406	37.1%	Transportation and Warehousing - Aggregated
NAICS 51	4,873	5,892	20.9%	Information
NAICS 52	8,679	10,446	20.4%	Finance and Insurance
NAICS 53	3,115	3,415	9.6%	Real Estate and Rental and Leasing
NAICS 54	15,531	17,420	12.2%	Professional Scientific and Technical Services
NAICS 55	14,872	17,430	17.2%	Management of Companies and Enterprises
NAICS 56	17,378	22,160	27.5%	Administrative Support, Waste Management and Remediation Services
NAICS 61	29,020	26,625	-8.3%	Education Services
NAICS 62	49,099	48,925	-0.4%	Health Care and Social Assistance
NAICS 71	4,221	4,385	3.9%	Arts, Entertainment and Recreation
NAICS 72	25,336	27,658	9.2%	Accommodation and Food Services
NAICS 81	9,733	9,933	2.1%	Other Services (except Public Administration)
NAICS 92	9,599	9,497	-1.1%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	305,864	329,224	7.6%	
Public School Enrollment	99,872	103,385	3.5%	
Private School Enrollment	12,034	11,886	-1.2%	
Group Quarters	18,026	19,134	6.1%	
Hotel Rooms	6,391	7,489	17.2%	
Median Household Income	49,984	49,984	0.0%	

SUMMIT COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	541,781	546,117	0.8%	
Households	222,781	221,990	-0.4%	
Population Under 18	123,575	124,788	1.0%	
Vehicles	254,826	254,449	-0.1%	
Workers	255,962	255,697	-0.1%	
Employment				
NAICS 11	111	124	11.7%	Agriculture, Forestry and Hunting
NAICS 21	54	161	198.1%	Mining
NAICS 22	2,057	2,156	4.8%	Utilities
NAICS 23	8,644	9,756	12.9%	Construction
NAICS 31-33	26,947	28,415	5.4%	Manufacturing - Aggregated
NAICS 42	13,899	13,889	-0.1%	Wholesale Trade
NAICS 44-45	31,453	32,731	4.1%	Retail Trade - Aggregated
NAICS 48-49	8,680	12,062	39.0%	Transportation and Warehousing - Aggregated
NAICS 51	4,470	5,417	21.2%	Information
NAICS 52	8,033	9,744	21.3%	Finance and Insurance
NAICS 53	2,614	2,856	9.3%	Real Estate and Rental and Leasing
NAICS 54	14,202	16,042	13.0%	Professional Scientific and Technical Services
NAICS 55	13,995	16,710	19.4%	Management of Companies and Enterprises
NAICS 56	15,939	20,538	28.9%	Administrative Support, Waste Management and Remediation Services
NAICS 61	19,809	19,186	-3.1%	Education Services
NAICS 62	42,872	42,904	0.1%	Health Care and Social Assistance
NAICS 71	3,587	3,707	3.3%	Arts, Entertainment and Recreation
NAICS 72	20,705	22,429	8.3%	Accommodation and Food Services
NAICS 81	8,140	7,977	-2.0%	Other Services (except Public Administration)
NAICS 92	7,728	7,735	0.1%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	253,939	274,539	8.1%	
Public School Enrollment	74,634	75,845	1.6%	
Private School Enrollment	11,051	10,915	-1.2%	
Group Quarters	9,967	10,386	4.2%	
Hotel Rooms	5,056	5,914	17.0%	
Median Household Income	$ 47,926	$ 47,926	0.0%	

PORTAGE COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	161,419	173,476	7.5%	
Households	62,222	66,916	7.5%	
Population Under 18	33,678	36,293	7.8%	
Vehicles	76,534	82,452	7.7%	
Workers	78,569	84,591	7.7%	
Employment				
NAICS 11	183	185	1.1%	Agriculture, Forestry and Hunting
NAICS 21	148	174	17.6%	Mining
NAICS 22	95	98	3.2%	Utilities
NAICS 23	1,553	2,072	33.4%	Construction
NAICS 31-33	9,853	11,579	17.5%	Manufacturing - Aggregated
NAICS 42	2,681	2,964	10.6%	Wholesale Trade
NAICS 44-45	5,551	6,213	11.9%	Retail Trade - Aggregated
NAICS 48-49	1,078	1,324	22.8%	Transportation and Warehousing - Aggregated
NAICS 51	368	411	11.7%	Information
NAICS 52	604	656	8.6%	Finance and Insurance
NAICS 53	478	543	13.6%	Real Estate and Rental and Leasing
NAICS 54	1,279	1,329	3.9%	Professional Scientific and Technical Services
NAICS 55	877	719	-18.0%	Management of Companies and Enterprises
NAICS 56	1,394	1,581	13.4%	Administrative Support, Waste Management and Remediation Services
NAICS 61	8,779	7,031	-19.9%	Education Services
NAICS 62	5,748	5,570	-3.1%	Health Care and Social Assistance
NAICS 71	577	629	9.0%	Arts, Entertainment and Recreation
NAICS 72	4,514	5,095	12.9%	Accommodation and Food Services
NAICS 81	1,492	1,840	23.3%	Other Services (except Public Administration)
NAICS 92	1,766	1,629	-7.8%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	49,018	51,642	5.4%	
Public School Enrollment	22,702	24,573	8.2%	
Private School Enrollment	747	738	-1.2%	
Group Quarters	7,914	8,600	8.7%	
Hotel Rooms	1,335	1,575	18.0%	
Median Household Income	$ 50,447	$ 50,447	0.0%	

AKRON				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	199,110	182,633	-8.3%	
Households	83,712	76,785	-8.3%	
Population Under 18	45,541	41,772	-8.3%	
Vehicles	90,065	82,612	-8.3%	
Workers	90,985	83,456	-8.3%	
Employment				
NAICS 11	14	9	-35.7%	Agriculture, Forestry and Hunting
NAICS 21	3	75	2400.0%	Mining
NAICS 22	1,553	1,713	10.3%	Utilities
NAICS 23	2,670	3,668	37.4%	Construction
NAICS 31-33	8,307	7,695	-7.4%	Manufacturing - Aggregated
NAICS 42	3,813	3,904	2.4%	Wholesale Trade
NAICS 44-45	7,713	7,882	2.2%	Retail Trade - Aggregated
NAICS 48-49	2,804	2,582	-7.9%	Transportation and Warehousing - Aggregated
NAICS 51	2,346	3,435	46.4%	Information
NAICS 52	1,871	2,284	22.1%	Finance and Insurance
NAICS 53	1,252	1,493	19.2%	Real Estate and Rental and Leasing
NAICS 54	5,972	7,566	26.7%	Professional Scientific and Technical Services
NAICS 55	8,594	11,157	29.8%	Management of Companies and Enterprises
NAICS 56	5,836	7,559	29.5%	Administrative Support, Waste Management and Remediation Services
NAICS 61	10,211	9,687	-5.1%	Education Services
NAICS 62	24,973	21,905	-12.3%	Health Care and Social Assistance
NAICS 71	1,115	1,289	15.6%	Arts, Entertainment and Recreation
NAICS 72	5,326	5,966	12.0%	Accommodation and Food Services
NAICS 81	2,924	2,784	-4.8%	Other Services (except Public Administration)
NAICS 92	5,005	4,912	-1.9%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	102,302	107,565	5.1%	
Public School Enrollment	22,714	21,115	-7.0%	
Private School Enrollment	3,540	3,496	-1.2%	
Group Quarters	6,054	6,385	5.5%	
Hotel Rooms	441	747	69.4%	
Median Household Income	$ 34,359	$ 34,359	0.0%	

BARBERTON				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	26,550	25,266	-4.8%	
Households	11,054	10,519	-4.8%	
Population Under 18	6,226	5,925	-4.8%	
Vehicles	11,445	10,892	-4.8%	
Workers	11,450	10,896	-4.8%	
Employment				
NAICS 11	45	55	22.2%	Agriculture, Forestry and Hunting
NAICS 21	-	1	100.0%	Mining
NAICS 22	-	1	100.0%	Utilities
NAICS 23	689	708	2.8%	Construction
NAICS 31-33	2,988	3,283	9.9%	Manufacturing - Aggregated
NAICS 42	283	370	30.7%	Wholesale Trade
NAICS 44-45	780	760	-2.6%	Retail Trade - Aggregated
NAICS 48-49	130	132	1.5%	Transportation and Warehousing - Aggregated
NAICS 51	47	70	48.9%	Information
NAICS 52	176	172	-2.3%	Finance and Insurance
NAICS 53	67	61	-9.0%	Real Estate and Rental and Leasing
NAICS 54	163	203	24.5%	Professional Scientific and Technical Services
NAICS 55	64	34	-46.9%	Management of Companies and Enterprises
NAICS 56	339	358	5.6%	Administrative Support, Waste Management and Remediation Services
NAICS 61	620	606	-2.3%	Education Services
NAICS 62	1,359	1,757	29.3%	Health Care and Social Assistance
NAICS 71	78	83	6.4%	Arts, Entertainment and Recreation
NAICS 72	730	753	3.2%	Accommodation and Food Services
NAICS 81	486	450	-7.4%	Other Services (except Public Administration)
NAICS 92	204	199	-2.5%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	9,248	10,056	8.7%	
Public School Enrollment	3,786	3,690	-2.5%	
Private School Enrollment	160	158	-1.3%	
Group Quarters	373	382	2.4%	
Hotel Rooms	-	-	0.0%	
Median Household Income	$ 35,411	$ 35,411	0.0%	

CUYAHOGA FALLS				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	49,652	49,932	0.6%	
Households	22,250	22,375	0.6%	
Population Under 18	10,368	10,426	0.6%	
Vehicles	25,205	25,347	0.6%	
Workers	25,205	25,347	0.6%	
Employment				
NAICS 11	-	1	100.0%	Agriculture, Forestry and Hunting
NAICS 21	-	1	100.0%	Mining
NAICS 22	63	69	9.5%	Utilities
NAICS 23	340	423	24.4%	Construction
NAICS 31-33	2,382	1,777	-25.4%	Manufacturing - Aggregated
NAICS 42	419	417	-0.5%	Wholesale Trade
NAICS 44-45	3,142	2,836	-9.7%	Retail Trade - Aggregated
NAICS 48-49	95	269	183.2%	Transportation and Warehousing - Aggregated
NAICS 51	243	194	-20.2%	Information
NAICS 52	310	408	31.6%	Finance and Insurance
NAICS 53	131	155	18.3%	Real Estate and Rental and Leasing
NAICS 54	888	1,177	32.5%	Professional Scientific and Technical Services
NAICS 55	571	222	-61.1%	Management of Companies and Enterprises
NAICS 56	801	1,872	133.7%	Administrative Support, Waste Management and Remediation Services
NAICS 61	1,615	1,670	3.4%	Education Services
NAICS 62	1,760	2,774	57.6%	Health Care and Social Assistance
NAICS 71	335	307	-8.4%	Arts, Entertainment and Recreation
NAICS 72	2,151	2,019	-6.1%	Accommodation and Food Services
NAICS 81	786	794	1.0%	Other Services (except Public Administration)
NAICS 92	422	485	14.9%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	16,454	17,870	8.6%	
Public School Enrollment	6,194	6,275	1.3%	
Private School Enrollment	3,191	3,152	-1.2%	
Group Quarters	527	540	2.5%	
Hotel Rooms	318	318	0.0%	
Median Household Income	$ 47,071	$ 47,071	0.0%	

NORTHERN SUMMIT COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	87,677	97,797	11.5%	
Households	33,774	37,128	9.9%	
Population Under 18	21,937	24,339	10.9%	
Vehicles	42,959	46,941	9.3%	
Workers	43,019	47,005	9.3%	
Employment				
NAICS 11	15	12	-20.0%	Agriculture, Forestry and Hunting
NAICS 21	39	46	17.9%	Mining
NAICS 22	82	76	-7.3%	Utilities
NAICS 23	1,986	2,221	11.8%	Construction
NAICS 31-33	6,494	7,115	9.6%	Manufacturing - Aggregated
NAICS 42	6,003	6,073	1.2%	Wholesale Trade
NAICS 44-45	6,112	5,392	-11.8%	Retail Trade - Aggregated
NAICS 48-49	2,577	2,205	-14.4%	Transportation and Warehousing - Aggregated
NAICS 51	1,165	1,120	-3.9%	Information
NAICS 52	3,058	3,882	26.9%	Finance and Insurance
NAICS 53	336	338	0.6%	Real Estate and Rental and Leasing
NAICS 54	2,445	2,351	-3.8%	Professional Scientific and Technical Services
NAICS 55	1,389	2,142	54.2%	Management of Companies and Enterprises
NAICS 56	1,885	2,323	23.2%	Administrative Support, Waste Management and Remediation Services
NAICS 61	2,692	2,675	-0.6%	Education Services
NAICS 62	3,700	3,301	-10.8%	Health Care and Social Assistance
NAICS 71	1,028	1,024	-0.4%	Arts, Entertainment and Recreation
NAICS 72	3,885	3,505	-9.8%	Accommodation and Food Services
NAICS 81	1,292	1,416	9.6%	Other Services (except Public Administration)
NAICS 92	862	879	2.0%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	47,045	48,096	2.2%	
Public School Enrollment	14,160	15,391	8.7%	
Private School Enrollment	1,870	1,847	-1.2%	
Group Quarters	939	955	1.7%	
Hotel Rooms	1,532	1,784	16.4%	
Median Household Income	$ 84,206	$ 84,206	0.0%	

CENTRAL SUMMIT COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	94,068	102,286	8.7%	
Households	37,875	39,658	4.7%	
Population Under 18	21,217	23,199	9.3%	
Vehicles	44,685	47,335	5.9%	
Workers	44,776	47,442	6.0%	
Employment				
NAICS 11	22	28	27.3%	Agriculture, Forestry and Hunting
NAICS 21	12	18	50.0%	Mining
NAICS 22	281	215	-23.5%	Utilities
NAICS 23	1,317	1,363	3.5%	Construction
NAICS 31-33	2,470	3,047	23.4%	Manufacturing - Aggregated
NAICS 42	1,569	1,845	17.6%	Wholesale Trade
NAICS 44-45	9,692	10,528	8.6%	Retail Trade - Aggregated
NAICS 48-49	1,123	1,230	9.5%	Transportation and Warehousing - Aggregated
NAICS 51	443	473	6.8%	Information
NAICS 52	1,826	1,948	6.7%	Finance and Insurance
NAICS 53	510	578	13.3%	Real Estate and Rental and Leasing
NAICS 54	3,001	2,648	-11.8%	Professional Scientific and Technical Services
NAICS 55	2,462	2,057	-16.5%	Management of Companies and Enterprises
NAICS 56	4,335	4,704	8.5%	Administrative Support, Waste Management and Remediation Services
NAICS 61	2,495	2,501	0.2%	Education Services
NAICS 62	8,090	8,354	3.3%	Health Care and Social Assistance
NAICS 71	739	672	-9.1%	Arts, Entertainment and Recreation
NAICS 72	5,627	5,558	-1.2%	Accommodation and Food Services
NAICS 81	1,685	1,678	-0.4%	Other Services (except Public Administration)
NAICS 92	815	850	4.3%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	48,514	50,295	3.7%	
Public School Enrollment	13,789	15,007	8.8%	
Private School Enrollment	1,876	1,853	-1.2%	
Group Quarters	1,647	1,687	2.4%	
Hotel Rooms	1,725	1,725	0.0%	
Median Household Income	$ 70,783	$ 70,783	0.0%	

SOUTHERN SUMMIT COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	84,724	88,204	4.1%	
Households	34,116	35,525	4.1%	
Population Under 18	18,286	19,126	4.6%	
Vehicles	40,467	41,323	2.1%	
Workers	40,527	41,551	2.5%	
Employment				
NAICS 11	20	20	0.0%	Agriculture, Forestry and Hunting
NAICS 21	7	20	185.7%	Mining
NAICS 22	94	83	-11.7%	Utilities
NAICS 23	1,642	1,373	-16.4%	Construction
NAICS 31-33	4,299	5,498	27.9%	Manufacturing - Aggregated
NAICS 42	1,812	1,280	-29.4%	Wholesale Trade
NAICS 44-45	4,010	5,332	33.0%	Retail Trade - Aggregated
NAICS 48-49	1,951	5,645	189.3%	Transportation and Warehousing - Aggregated
NAICS 51	226	125	-44.7%	Information
NAICS 52	792	1,051	32.7%	Finance and Insurance
NAICS 53	318	231	-27.4%	Real Estate and Rental and Leasing
NAICS 54	1,733	2,096	20.9%	Professional Scientific and Technical Services
NAICS 55	915	1,098	20.0%	Management of Companies and Enterprises
NAICS 56	2,743	3,722	35.7%	Administrative Support, Waste Management and Remediation Services
NAICS 61	2,176	2,047	-5.9%	Education Services
NAICS 62	2,980	4,813	61.5%	Health Care and Social Assistance
NAICS 71	292	332	13.7%	Arts, Entertainment and Recreation
NAICS 72	2,979	4,628	55.4%	Accommodation and Food Services
NAICS 81	967	854	-11.7%	Other Services (except Public Administration)
NAICS 92	420	411	-2.1%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	30,376	40,659	33.9%	
Public School Enrollment	13,991	14,369	2.7%	
Private School Enrollment	414	409	-1.2%	
Group Quarters	427	437	2.3%	
Hotel Rooms	1,040	1,340	28.8%	
Median Household Income	$ 55,905	$ 55,905	0.0%	

NORTHWEST PORTAGE COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	43,277	50,223	16.1%	
Households	16,934	19,740	16.6%	
Population Under 18	9,975	11,576	16.1%	
Vehicles	20,905	24,410	16.8%	
Workers	20,885	24,388	16.8%	
Employment				
NAICS 11	26	27	3.8%	Agriculture, Forestry and Hunting
NAICS 21	59	67	13.6%	Mining
NAICS 22	16	11	-31.3%	Utilities
NAICS 23	542	681	25.6%	Construction
NAICS 31-33	4,846	5,220	7.7%	Manufacturing - Aggregated
NAICS 42	1,907	1,770	-7.2%	Wholesale Trade
NAICS 44-45	2,786	2,586	-7.2%	Retail Trade - Aggregated
NAICS 48-49	436	489	12.2%	Transportation and Warehousing - Aggregated
NAICS 51	27	29	7.4%	Information
NAICS 52	134	136	1.5%	Finance and Insurance
NAICS 53	237	237	0.0%	Real Estate and Rental and Leasing
NAICS 54	508	544	7.1%	Professional Scientific and Technical Services
NAICS 55	46	32	-30.4%	Management of Companies and Enterprises
NAICS 56	605	615	1.7%	Administrative Support, Waste Management and Remediation Services
NAICS 61	1,454	1,343	-7.6%	Education Services
NAICS 62	1,235	1,227	-0.6%	Health Care and Social Assistance
NAICS 71	257	322	25.3%	Arts, Entertainment and Recreation
NAICS 72	1,506	1,485	-1.4%	Accommodation and Food Services
NAICS 81	527	577	9.5%	Other Services (except Public Administration)
NAICS 92	349	271	-22.3%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	17,503	17,669	0.9%	
Public School Enrollment	7,273	8,159	12.2%	
Private School Enrollment	278	275	-1.1%	
Group Quarters	713	730	2.4%	
Hotel Rooms	665	665	0.0%	
Median Household Income	$ 65,488	$ 65,488	0.0%	

NORTHEAST PORTAGE COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	16,207	16,199	0.0%	
Households	5,841	5,810	-0.5%	
Population Under 18	3,640	3,575	-1.8%	
Vehicles	7,315	7,357	0.6%	
Workers	7,685	7,774	1.2%	
Employment				
NAICS 11	53	67	26.4%	Agriculture, Forestry and Hunting
NAICS 21	-	-	0.0%	Mining
NAICS 22	-	1	100.0%	Utilities
NAICS 23	52	35	-32.7%	Construction
NAICS 31-33	397	479	20.7%	Manufacturing - Aggregated
NAICS 42	32	101	215.6%	Wholesale Trade
NAICS 44-45	282	70	-75.2%	Retail Trade - Aggregated
NAICS 48-49	57	104	82.5%	Transportation and Warehousing - Aggregated
NAICS 51	81	19	-76.5%	Information
NAICS 52	37	15	-59.5%	Finance and Insurance
NAICS 53	30	38	26.7%	Real Estate and Rental and Leasing
NAICS 54	66	49	-25.8%	Professional Scientific and Technical Services
NAICS 55	-	1	100.0%	Management of Companies and Enterprises
NAICS 56	16	26	62.5%	Administrative Support, Waste Management and Remediation Services
NAICS 61	656	490	-25.3%	Education Services
NAICS 62	132	278	110.6%	Health Care and Social Assistance
NAICS 71	43	15	-65.1%	Arts, Entertainment and Recreation
NAICS 72	453	494	9.1%	Accommodation and Food Services
NAICS 81	70	30	-57.1%	Other Services (except Public Administration)
NAICS 92	131	160	22.1%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	2,588	2,472	-4.5%	
Public School Enrollment	2,186	2,116	-3.2%	
Private School Enrollment	-	-	0.0%	
Group Quarters	881	968	9.9%	
Hotel Rooms	12	12	0.0%	
Median Household Income	$ 52,777	$ 52,777	0.0%	

SOUTHWEST PORTAGE COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	87,325	92,663	6.1%	
Households	33,902	35,925	6.0%	
Population Under 18	16,667	17,787	6.7%	
Vehicles	41,600	44,057	5.9%	
Workers	43,265	45,780	5.8%	
Employment				
NAICS 11	83	74	-10.8%	Agriculture, Forestry and Hunting
NAICS 21	37	70	89.2%	Mining
NAICS 22	79	86	8.9%	Utilities
NAICS 23	857	1,250	45.9%	Construction
NAICS 31-33	4,566	5,829	27.7%	Manufacturing - Aggregated
NAICS 42	610	994	63.0%	Wholesale Trade
NAICS 44-45	2,312	3,395	46.8%	Retail Trade - Aggregated
NAICS 48-49	471	595	26.3%	Transportation and Warehousing - Aggregated
NAICS 51	260	363	39.6%	Information
NAICS 52	433	503	16.2%	Finance and Insurance
NAICS 53	192	248	29.2%	Real Estate and Rental and Leasing
NAICS 54	680	681	0.1%	Professional Scientific and Technical Services
NAICS 55	828	685	-17.3%	Management of Companies and Enterprises
NAICS 56	745	913	22.6%	Administrative Support, Waste Management and Remediation Services
NAICS 61	5,796	4,689	-19.1%	Education Services
NAICS 62	4,346	4,040	-7.0%	Health Care and Social Assistance
NAICS 71	271	284	4.8%	Arts, Entertainment and Recreation
NAICS 72	2,464	3,029	22.9%	Accommodation and Food Services
NAICS 81	862	1,197	38.9%	Other Services (except Public Administration)
NAICS 92	1,238	1,174	-5.2%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	27,130	30,099	10.9%	
Public School Enrollment	10,068	11,016	9.4%	
Private School Enrollment	469	463	-1.3%	
Group Quarters	6,314	6,895	9.2%	
Hotel Rooms	658	898	36.5%	
Median Household Income	$ 46,104	$ 46,104	0.0%	

SOUTHEAST PORTAGE COUNTY				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	14,610	14,391	-1.5%	
Households	5,545	5,441	-1.9%	
Population Under 18	3,396	3,354	-1.2%	
Vehicles	6,714	6,628	-1.3%	
Workers	6,734	6,648	-1.3%	
Employment				
NAICS 11	21	17	-19.0%	Agriculture, Forestry and Hunting
NAICS 21	52	37	-28.8%	Mining
NAICS 22	-	-	0.0%	Utilities
NAICS 23	102	106	3.9%	Construction
NAICS 31-33	44	52	18.2%	Manufacturing - Aggregated
NAICS 42	132	100	-24.2%	Wholesale Trade
NAICS 44-45	171	161	-5.8%	Retail Trade - Aggregated
NAICS 48-49	114	136	19.3%	Transportation and Warehousing - Aggregated
NAICS 51	-	1	100.0%	Information
NAICS 52	-	1	100.0%	Finance and Insurance
NAICS 53	19	20	5.3%	Real Estate and Rental and Leasing
NAICS 54	25	56	124.0%	Professional Scientific and Technical Services
NAICS 55	3	1	-66.7%	Management of Companies and Enterprises
NAICS 56	28	28	0.0%	Administrative Support, Waste Management and Remediation Services
NAICS 61	873	509	-41.7%	Education Services
NAICS 62	35	25	-28.6%	Health Care and Social Assistance
NAICS 71	6	9	50.0%	Arts, Entertainment and Recreation
NAICS 72	91	88	-3.3%	Accommodation and Food Services
NAICS 81	33	35	6.1%	Other Services (except Public Administration)
NAICS 92	48	25	-47.9%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	1,797	1,407	-21.7%	
Public School Enrollment	3,175	3,282	3.4%	
Private School Enrollment	-	-	0.0%	
Group Quarters	6	6	0.0%	
Hotel Rooms	-	-	0.0%	
Median Household Income	$ 57,001	$ 57,001	0.0%	

WAYNE COUNTY PORTION				
2040 FORECAST CHARACTERISTICS				
	Base Year: 2010	**Plan Year: 2040**	**% Change**	
Population	19,588	20,204	3.1%	
Households	7,508	7,757	3.3%	
Population Under 18	4,601	4,760	3.5%	
Vehicles	8,415	8,716	3.6%	
Workers	9,451	9,784	3.5%	
Employment				
NAICS 11	146	128	-12.3%	Agriculture, Forestry and Hunting
NAICS 21	14	14	0.0%	Mining
NAICS 22	23	20	-13.0%	Utilities
NAICS 23	256	337	31.6%	Construction
NAICS 31-33	447	561	25.5%	Manufacturing - Aggregated
NAICS 42	141	138	-2.1%	Wholesale Trade
NAICS 44-45	359	317	-11.7%	Retail Trade - Aggregated
NAICS 48-49	18	20	11.1%	Transportation and Warehousing - Aggregated
NAICS 51	35	64	82.9%	Information
NAICS 52	42	47	11.9%	Finance and Insurance
NAICS 53	23	16	-30.4%	Real Estate and Rental and Leasing
NAICS 54	50	49	-2.0%	Professional Scientific and Technical Services
NAICS 55	-	-	0.0%	Management of Companies and Enterprises
NAICS 56	45	41	-8.9%	Administrative Support, Waste Management and Remediation Services
NAICS 61	432	408	-5.6%	Education Services
NAICS 62	489	451	-7.8%	Health Care and Social Assistance
NAICS 71	57	49	-14.0%	Arts, Entertainment and Recreation
NAICS 72	124	133	7.3%	Accommodation and Food Services
NAICS 81	101	116	14.9%	Other Services (except Public Administration)
NAICS 92	105	132	25.7%	Public Administration
NAICS 99	-	-	-	Other
Total Employment	2,907	3,041	4.6%	
Public School Enrollment	2,536	2,966	17.0%	
Private School Enrollment	236	233	-1.3%	
Group Quarters	145	148	2.1%	
Hotel Rooms	-	-	0.0%	
Median Household Income	$ 48,375	$ 48,375	0.0%	

Conclusion

Understanding where current trends could be taking the AMATS region in the long-term future is an important part of the regional transportation planning process. The analyses contained within this report give us a glimpse into the potential future of the greater Akron region, in regards to many important transportation planning variables. Each of these 35 variables has a varying degree of impact on the local transportation system. In addition to providing important planning insight, the massive amount of TAZ-level data generated during the Planning Data Forecast process will be input directly into the region's traffic demand model. Using this data, the model will be able to generate future traffic volumes, congestion and air quality data with the greatest possible accuracy.

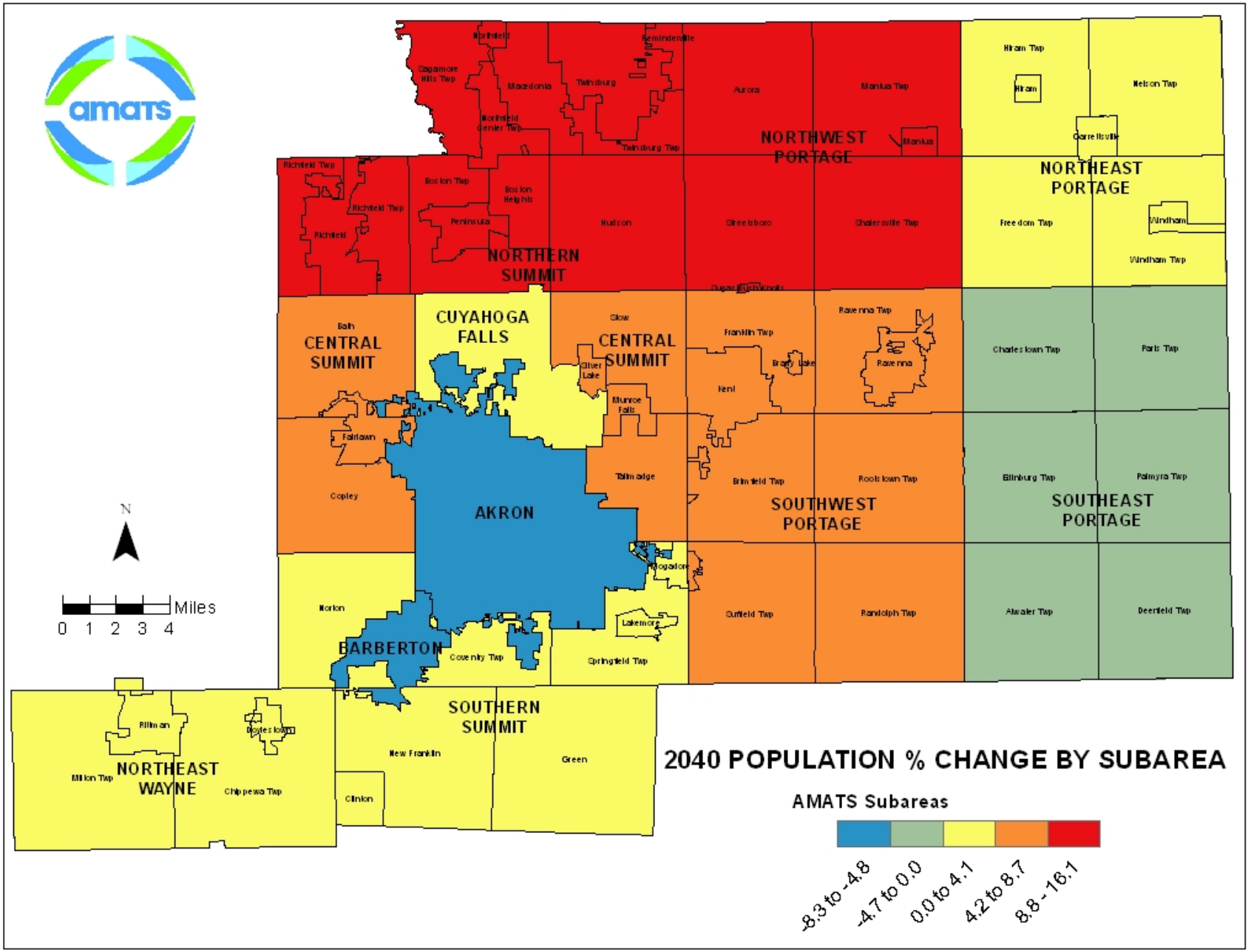
According to the previous analyses, the AMATS region is expected to experience a slight increase in population (2.4%) between now and 2040. Similarly, the region's employment is expected to see moderate growth (7.6%) over this same planning period. Summit and Portage counties are expected to hold to these same trends.

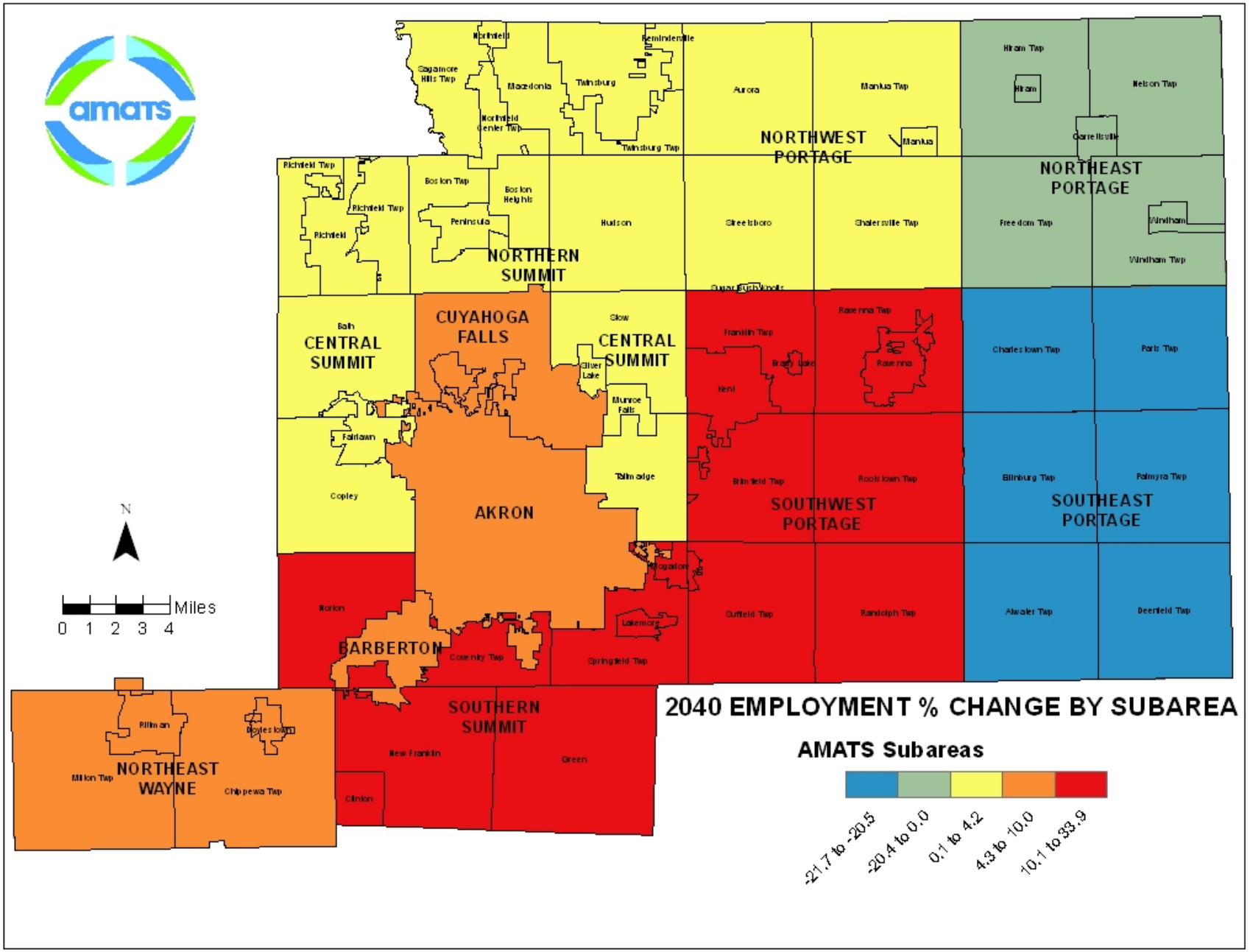
At the subarea level, future population growth should be the strongest in the northern portion of Summit County (11.5%) and Northwest Portage County (16.1%). Employment growth is expected to be strongest in Southern Summit County (33.9%) and Southwest Portage County (10.9%). Moderate employment growth is expected in all but the two easternmost subareas that comprise the AMATS region.

The Wayne County portion of the AMATS region should expect modest population (3.1%) and employment (4.6%) growth through 2040. The public school enrollment in the Wayne County communities is expected to be the largest in the AMATS region, growing 17.0% over the planning period.

Appendix

AMATS Population and Employment 2040 Forecast Maps


amats
NORTHWEST PORTAGE
NORTHEAST PORTAGE
NORTHERN SUMMIT
CUYAHOGA FALLS
CENTRAL SUMMIT
CENTRAL SUMMIT
AKRON
SOUTHWEST PORTAGE
SOUTHEAST PORTAGE
BARBERTON
SOUTHERN SUMMIT
NORTHEAST WAYNE
N
Miles
0 1 2 3 4
2040 POPULATION % CHANGE BY SUBAREA
AMATS Subareas
-8.3 to -4.8
-4.7 to 0.0
0.0 to 4.1
4.2 to 8.7
8.8 - 16.1


amats
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SOUTHEAST PORTAGE
BARBERTON
SOUTHERN SUMMIT
NORTHEAST WAYNE
N
Miles
0 1 2 3 4
2040 EMPLOYMENT % CHANGE BY SUBAREA
AMATS Subareas
-21.7 to -20.5
-20.4 to 0.0
0.1 to 4.2
4.3 to 10.0
10.1 to 33.9