

Hampton Roads 2045 Socioeconomic Forecast and Transportation Analysis Zone Allocation



February 2019

the *heartbeat* of
**HAMPTON
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TRANSPORTATION PLANNING ORGANIZATION

T19-02

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Ed Vedder, Colonel, Langley-Eustis

INVITED PARTICIPANT

John Malbon, Commonwealth Transportation Board

Stephen A. Johnsen, Commonwealth Transportation Board

W. Sheppard Miller, Commonwealth Transportation Board

HRTPO PROJECT STAFF

Michael S. Kimbrel

Dale M. Stith, AICP, GISP

Leonardo Pineda II

Theresa K. Brooks

Greg Grootendorst

Michael Long

Chris Vaigneur

Deputy Executive Director, HRTPO

Principal Transportation Planner

Transportation Planner II

Transportation Engineer III

Chief Economist

General Services Manager

Assistant General Service Manager

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Authors

Leonardo Pineda II, Transportation Planner II
Greg Grootendorst, AICP, Chief Economist
Dale M. Stith, AICP, GISP, Principal Transportation Planner

Organization Contact Information

Hampton Roads Transportation Planning Organization
723 Woodlake Drive
Chesapeake, Virginia 23320
(757) 420-8300
www.hrtpo.org

Project Manager

Dale M. Stith, AICP, GISP, Principal Transportation Planner

Abstract

This report contains socioeconomic data by Transportation Analysis Zone (TAZ) for the Hampton Roads region to be used in the regional Travel Demand Model (TDM) and transportation planning analyses. TAZs are the base geographical unit of analysis in the TDM.

Per Federal regulations, base year socioeconomic data used in the regional TDM cannot be more than ten years old. As such, the Hampton Roads Transportation Planning Organization has updated the socioeconomic data from the previous base year of 2009 to the year 2015.

Acknowledgement & Disclaimers

Prepared in cooperation with the U.S. Department of Transportation (USDOT), Federal Highway Administration (FHWA), and Virginia Department of Transportation (VDOT). The contents of this report reflect the views of the Hampton Roads Transportation Planning Organization (HRTPO). The HRTPO is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the FHWA, VDOT or Hampton Roads Planning District Commission. This report does not constitute a standard, specification, or regulation. FHWA or VDOT acceptance of this report as evidence of fulfillment of the objectives of this planning study does not constitute endorsement/approval of the need for any recommended improvements nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project level environmental impact assessments and/or studies of alternatives may be necessary.

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Hampton Roads 2045 Socioeconomic Forecast and TAZ Allocation

Purpose

The primary purpose of a forecast is to improve the decision making process in matters that have future implications. Large and costly infrastructure projects that are designed for current and future use are a prime example of the need for forecasting.

According to Federal regulations (23CFR450.300 –Metropolitan Transportation Planning and Programming: Purpose)¹, the Metropolitan Planning Organization (MPO) of each designated urbanized area should “carry out a continuing, cooperative and comprehensive multimodal transportation planning process, including the development of a metropolitan transportation plan and a transportation improvement program (TIP).”²

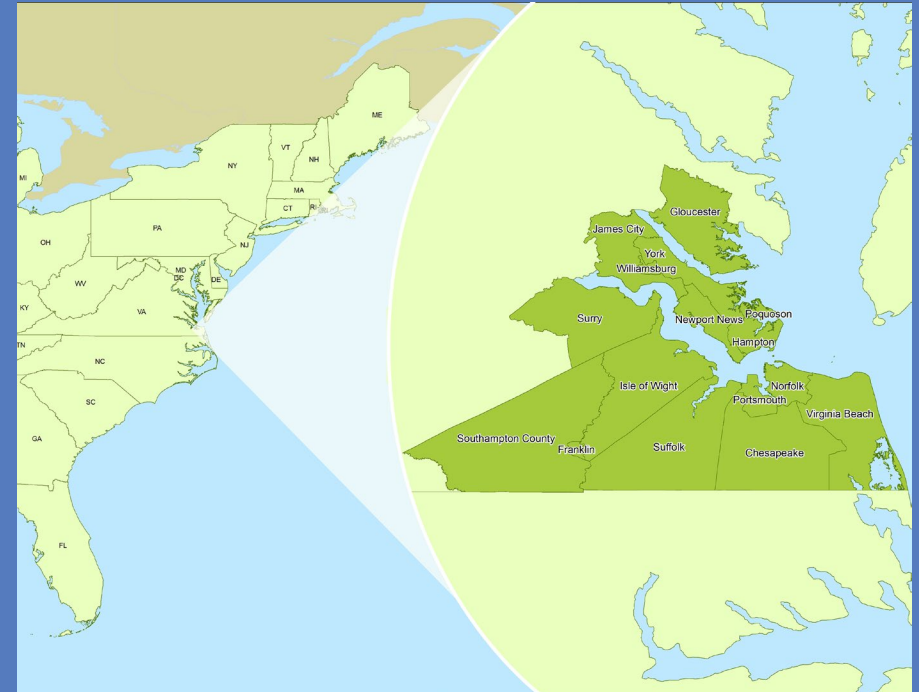
Further, as per 23CFR450.322, the metropolitan transportation plan should have a minimum 20-year planning horizon and should include both “long-range and short-range strategies/actions that lead to the development of an integrated multimodal transportation system.”³ The MPO must review and update the transportation plan at least every four years in air quality nonattainment and maintenance areas, and every five years in air quality attainment areas (Hampton Roads is considered an attainment area). The plan at a minimum should include “the projected transportation demand of persons and goods in the metropolitan planning area over the period of the plan.”

The current metropolitan transportation plan (2040 Long-Range Transportation Plan) was adopted by the Board of the Hampton Roads Transportation Planning Organization (hereon referred to as the HRTPO) in July of 2016. The Long-Range Transportation Plan (LRTP) serves as the blueprint for the region’s transportation development and identifies all regionally significant transportation projects for the Hampton Roads metropolitan area.

¹ <http://www.fhwa.dot.gov/hep/guidance/superseded/23cfr450.cfm#sec.450.320>

² www.gpo.gov/fdsys/pkg/CFR-2011-title23-vol1/pdf/CFR-2011-title23-vol1-part450-subpartC.pdf

³ <http://www.fhwa.dot.gov/hep/guidance/superseded/23cfr450.cfm#sec.450.322>



Regional Overview

Hampton Roads is home to more than 1.7 million residents and is projected to grow to over 2 million by the year 2045. The region is among the 40 largest Metropolitan Statistical Areas in the country, and the sixth largest in the Southeast.

Upon completion of the 2040 LRTP, the HRTPO began to update the transportation plan to the horizon year of 2045. As part of the process and in keeping with the federal regulations listed above, HRTPO staff must examine how the region may develop over the next 20 years based upon projected population and employment growth. Changes in growth can impact demand on the regional transportation system, therefore future plans must consider alternatives to effectively address these needs. Once alternatives are determined, funds are then identified to cover the costs of these future transportation investments.

This first step in preparing the 2045 LRTP is to conduct a long-range socioeconomic forecast with which to populate the regional travel demand model.⁴ Model requirements call for the forecast of several elements, including:

- Population
- Households
- Number of workers
- Passenger vehicle registrations
- Employment by place of work by categories
 - Retail
 - Industrial
 - Office
 - Other

These model inputs are then used to assist in the planning for, and analysis of, regional transportation projects.

The regional socioeconomic forecast is the result of significant effort that includes extensive research, modeling & analysis, as well as substantial input from member localities. The process for developing the forecast is monitored by the Long-Range Transportation Planning Subcommittee as well as the Transportation Technical Advisory Committee (TTAC) and requires the approval of the HRTPO Board. Once the forecast has been completed and approved, it is often used by member localities and other regional agencies to assist in their planning efforts.

Introduction

Forecasting⁵ involves making a statement about an event that has not yet been observed, and is typically at a future specified date. The inherent difficulty in making an accurate forecast is accounting for unknown variables that can influence an event. This is especially true for long-range forecasts, where the number of unknown variables increases over time. Long-range forecasts remain necessary, however, as it is important to plan for the future when making a significant investment of resources.

This report will explain the process and the methodology used to develop the Hampton Roads 2045 Socioeconomic Forecast and provide the forecast data that will be serve as an input for the HRTPO's Travel Demand Model (TDM).

Methodology

The development of the Hampton Roads 2045 Socioeconomic Forecast began with a comprehensive review of forecasting techniques and a review of best practices from other Metropolitan Planning Organizations.

At the outset, it was evident that there are numerous techniques generally used in forecasting. Quantitative forecasts are typically based on historical data and use mathematical formulas for trend extrapolation, cohort component analysis, or structural models. Quantitative methods range from simple linear projections, to autoregressive moving average (ARMA or ARIMA) models, to advanced econometric and spatial models. There are also qualitative forecasts that can be based on informed opinion (the Delphi Method), market research, and other non-numerical inputs. The type of forecasting technique utilized in a projection process is typically dependent on a variety of factors, such as data availability, project scope, consistency of historical trends, and the availability resources (Smith, Tayman, Swanson 2001, 5). According

⁴The HRTPO Travel Demand Model (TDM) is a planning tool developed by the Virginia Department of Transportation (VDOT) to forecast and analyze transportation scenarios in Hampton Roads.

⁵ Projections are statements about the future based on a particular set of assumptions, whereas a forecast is what an analyst believes to be most likely to provide an accurate prediction of future events (Smith, Tayman, Swanson 2001, 3).

to research, forecast accuracy tends to increase with population size, increase with slow and steady positive growth rates, and decrease over longer durations. Research also suggests that no forecasting technique consistently out-performs other techniques; as such, there is no single technique that is deemed superior to all others.

Given the variability of forecasting techniques, a literature review was conducted to determine current best practices in long-range forecasting from other MPOs. Once again it became evident that there were numerous different approaches employed by MPOs in the development of long-range forecasts. Several MPOs conducted their own forecasts, some relied on the state to provide their forecast, and others contracted with private companies or universities to develop their forecast. While there was very little in the way of consistency, some notable trends did appear. Many MPOs relied on comprehensive plans in the development of their forecasts, resulting in scenario based results rather than purely model driven results. In the event that scenario based forecasts were employed, forecasts tended to be restricted to base and horizon years, avoiding intermediate years. Listed below are a few highlights from long-range forecasts for select MPOs, a testament to some of the diversity and similarities in forecast methodology:

Seattle – Puget Sound Regional Council

- Employed an UrbanSim model developed by the University of Washington that focused on the real estate market, the transportation system, development patterns, travel demand, and household and firm locations.

San Francisco Bay Area Regional Transportation Plan

- Long range forecast utilized policy-based development potential to determine growth, ensuring the forecast was consistent with comprehensive plans.

Chicago Metropolitan Agency for Planning

- CMAP developed a model that incorporates data from the U.S. Census Bureau, Moody's Analytics, and other available data sources and utilized scenario-based forecasting to develop the 2050 regional socioeconomic forecast.

Fredericksburg Area Metropolitan Planning Organization

- FAMPO used trend extrapolation from data gathered from the Census Bureau for each member locality for use as inputs in their travel-demand model.

Greater Buffalo Niagara Regional Transportation Council

- Cambridge Systematics developed a forecasting tool that was used in the Buffalo model. The CS tool is land use based and uses census block group level data to estimate population and economic growth. It is driven by density classification and is informed by historic and existing demographic and development trends.

North Carolina Capital Area MPO

- The North Carolina Office of State Budget and Management produces forecast estimates for each jurisdiction in the state. CAMPO used trend extrapolation to extend the statewide forecast for use as inputs into their long-range plan.

Metropolitan Washington Council of Governments

- Employed a top-down, bottom up approach, using a regional model based on national economic and demographic factors to determine potential growth for the region, while relying on cooperation among local governments to determine potential growth at the local level.

Portland – Oregon Metro

- Relied on a GIS based model populated with data from the Regional Land Information System.

Boston – Metropolitan Area Planning Council

- Metro area forecast was provided by the state department of transportation.

Kansas City: Mid-America Regional Council

- Employed a qualitative forecasting approach based on informed opinion from technical committee members.

Atlanta Regional Commission

- Forecast was derived using REMI (Regional Economic Models, Inc), an advanced econometric modeling tool.

Southeast Michigan Council of Governments

- Forecast was developed by the University of Michigan through use of the UrbanSim model.

Delaware Valley Regional Planning Commission

- Utilized three different forecasts, based on cohort-component and trend extrapolation, to provide a minimum and maximum growth estimate.

San Diego Association of Governments

- Employed a top-down, bottom up method, developing regional control totals with which to constrain local forecasts.

After conducting a literature review, and researching best practices of other metropolitan planning organizations, staff prepared a draft methodology and presented it to the Transportation Technical Advisory Committee. The approved methodology consisted of a multi-step process specifically tailored to the Hampton Roads region that incorporated several aspects from forecasts developed in MPOs across the nation.

The forecast methodology employed a top-down, bottom-up approach, determining growth for each dataset at the regional level to serve as a constraint for the combined growth rates of each of the individual localities. Given the region's unique attributes, two separate forecasts were used. One for the Southside of Hampton Roads, consisting of the Cities of Chesapeake, Franklin, Norfolk, Portsmouth, Suffolk, and Virginia Beach, and the Counties of Isle of Wight, Southampton, and Surry.⁶ The other sub-regional forecast is for the Hampton Roads' Peninsula, consisting of the Cities of Hampton, Newport News, Poquoson, Williamsburg, and the Counties of Gloucester, James City, and York.

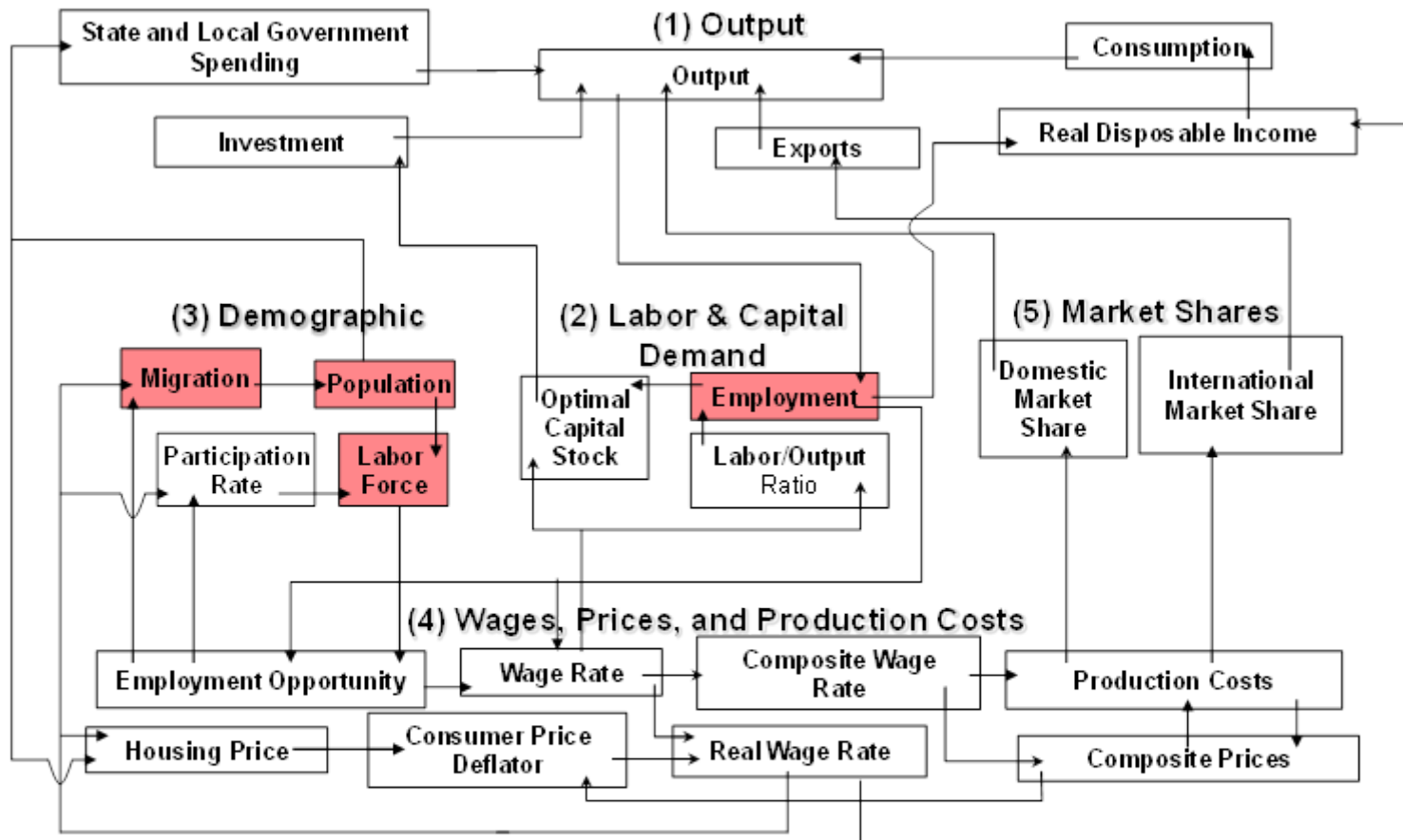
The regional and sub-regional control totals were developed using the Hampton Roads Planning District Commission's REMI (Regional Economic Modeling, Inc.) model.⁷ The REMI model is one of the most advanced and sophisticated dynamic forecasting and policy analysis tools available on the market, widely recognized for quality, accuracy, and integrity.

The REMI model is an especially valuable tool for long-range forecasting in that its dynamic structure enables the user to simultaneously forecast industry employment along with population, ensuring internal consistency in the forecast. The model is driven primarily by projected employment, using short-term forecasts from the University of Michigan's Research Seminar in Quantitative Economics (RSQE), and long-term projections from the Bureau of Labor Statistics (BLS). Predicating long-term population growth on expected changes in employment is strongly supported by literature because employment influences variable migration patterns, whereas natural growth rates (births and deaths) tend to be stable and consistent (Smith, Tayman, Swanson 2001, 188-9). An illustration of the REMI model structure (Figure 1) is included on the following page.

⁶ Although Surry is not part of the MPO, it is within the boundaries of the Hampton Roads Planning District Commission; Franklin and Southampton maintain seats on the HRTPO Board in matters that involve funding from the Hampton Roads Transportation Fund (Virginia House Bill 2313, 2013).

⁷ Information about the REMI model, including the assumptions, equations, and detailed specifics of the model are available at http://www.remi.com/wp-content/uploads/2017/10/PI-Overview-v2_1.pdf

Figure 1: REMI Model Structure



In order to ensure that the most recent information was used in the development of the forecast, the HRPDC REMI model was updated with the latest information from the U.S. Census Bureau and undisclosed data from the Bureau of Economic Analysis (BEA).

The long-range population forecast figures derived through the REMI model provide estimates of the components of population change, using employment projections to develop estimates of migration, while utilizing cohort-component survival analysis to forecast age and gender estimates for the residents of Hampton Roads.

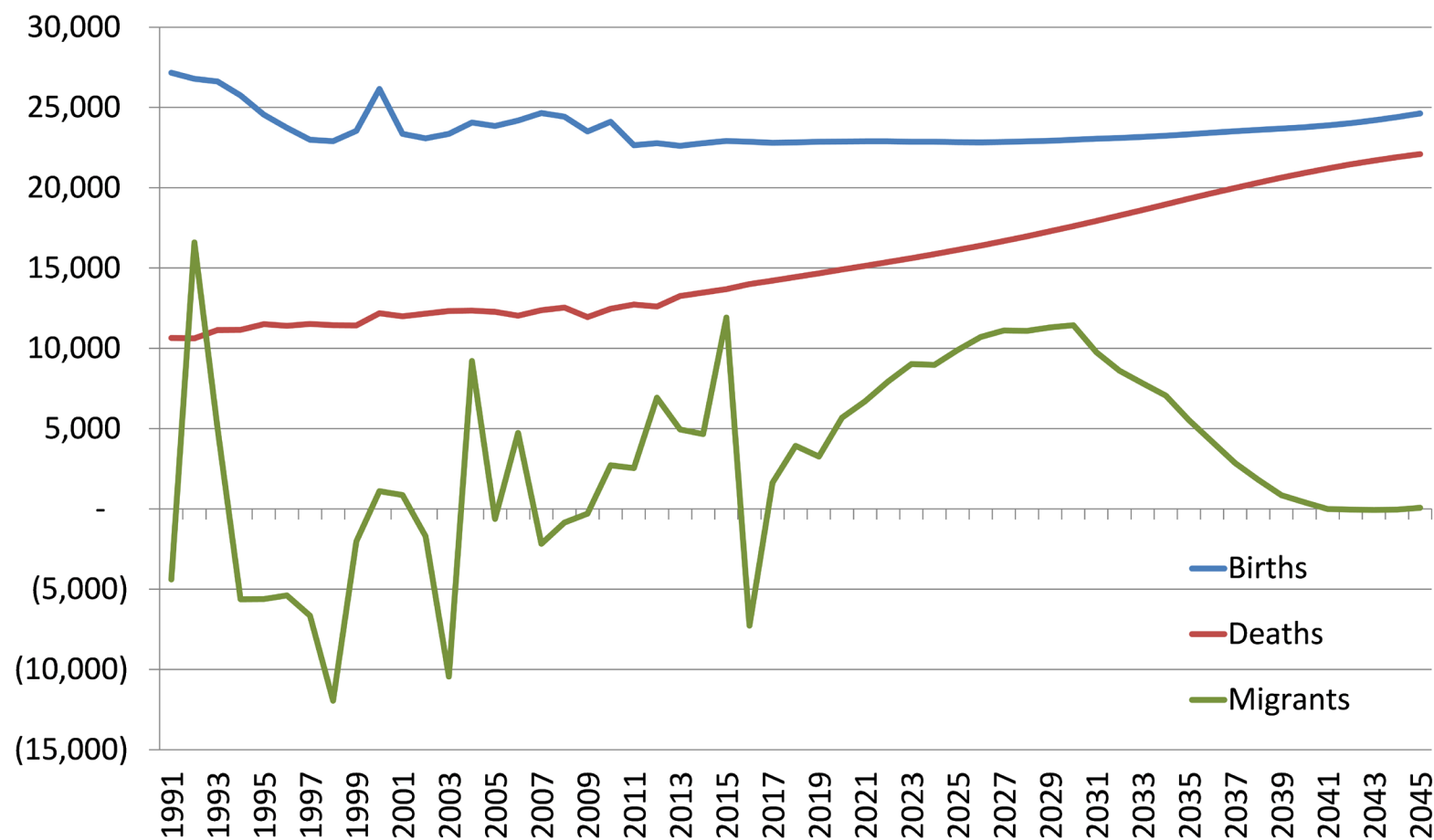
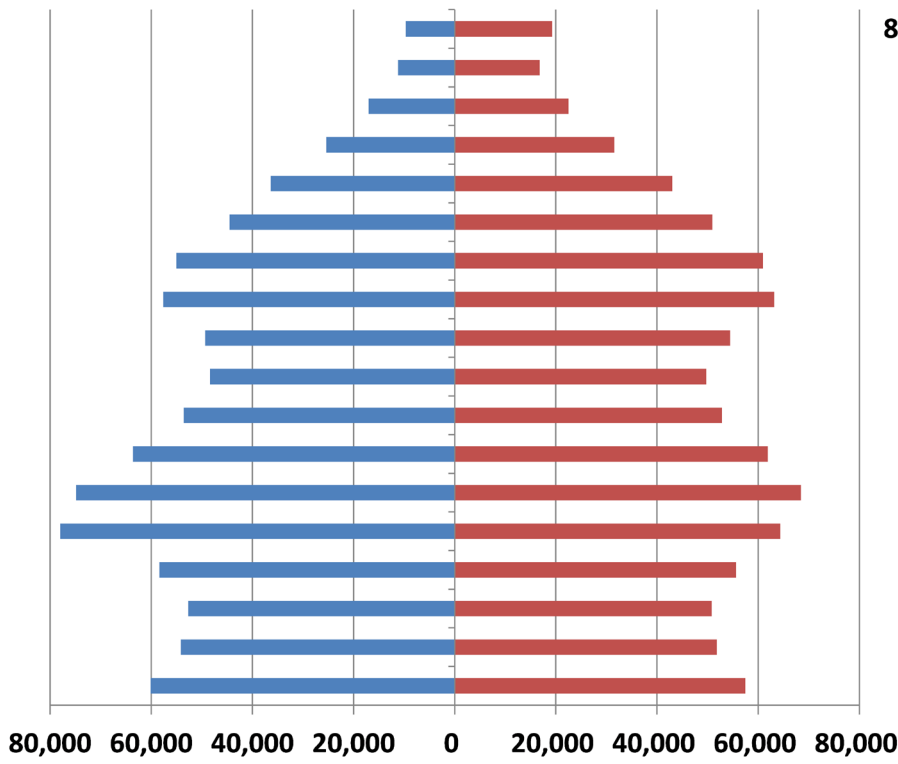


Figure 2: Components of Population Change

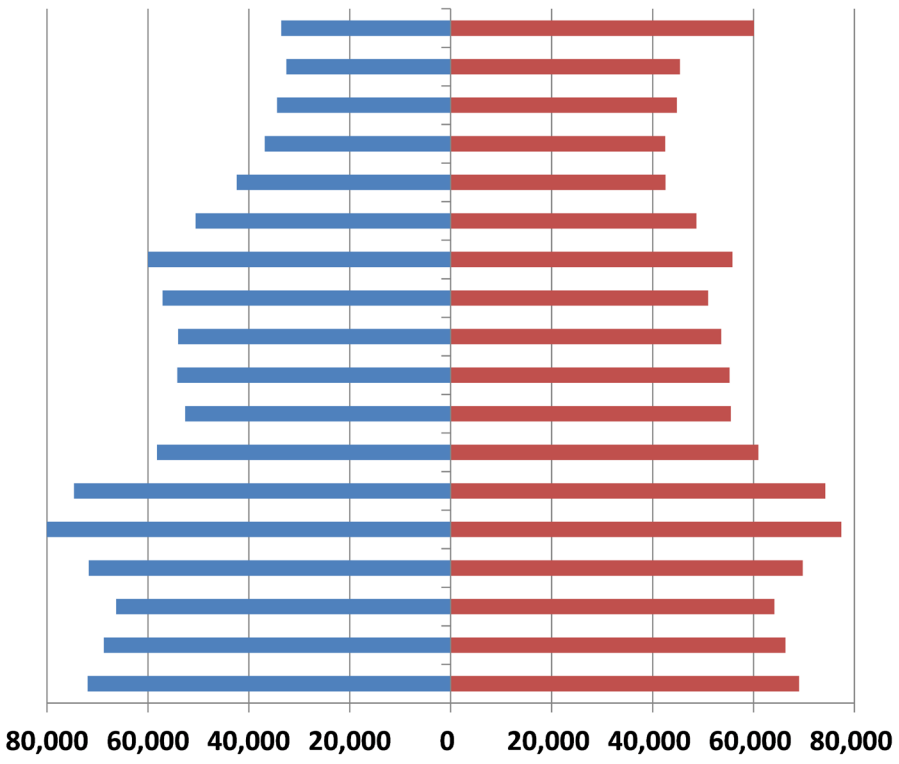
Figure 3: Hampton Roads Population Histograms

2015



2045

- 85 years and over
- 80 to 84 years
- 75 to 79 years
- 70 to 74 years
- 65 to 69 years
- 60 to 64 years
- 55 to 59 years
- 50 to 54 years
- 45 to 49 years
- 40 to 44 years
- 35 to 39 years
- 30 to 34 years
- 25 to 29 years
- 20 to 24 years
- 15 to 19 years
- 10 to 14 years
- 5 to 9 years
- Under 5 years



Male
Female

In order to better understand the components of travel demand, the Virginia Department of Transportation (VDOT) divided the employment by place of work category into four super-sectors, namely Retail, Office, Industrial, and Other. These four sectors were categorized by VDOT according to industries as defined by the North American Industrial Classification System. The employment breakdown is illustrated in Figure 4 below.

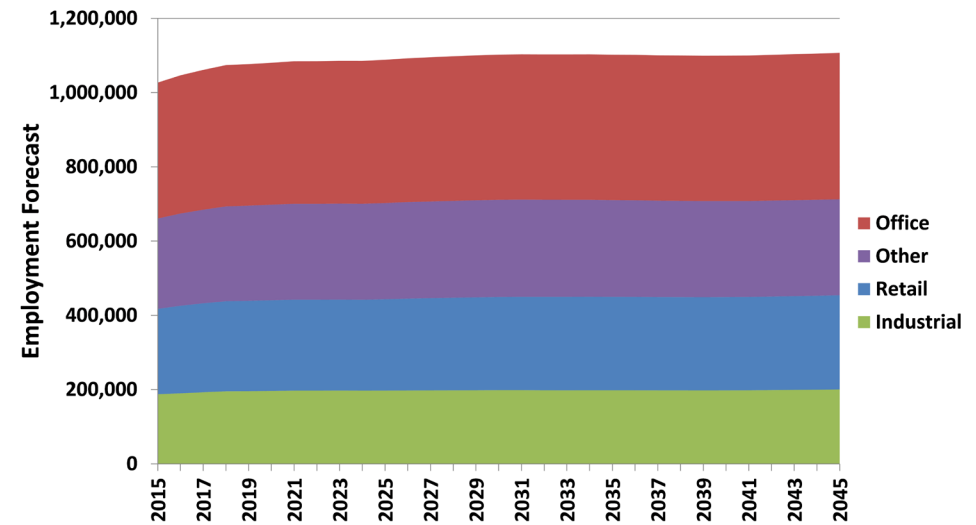
The REMI model was used to forecast employment growth for each of the four super-sectors, based on projected employment trends.

Figure 4: Employment Breakdown for Hampton Roads Travel Demand Model

Industry Sector	2-Digit NAICS	Retail	Office	Industrial	Other
Agriculture, Forestry, and Fisheries	11			100%	
Mining	21			100%	
Construction	23		10%	90%	
Manufacturing	31,32,33		10%	80%	10%
Transportation & Warehousing	48	5%	15%	50%	30%
Communications, Utilities	22	10%	10%	70%	10%
Wholesale Trade	42	40%	10%	20%	30%
Retail Trade	44,45	90%	10%		
Information	51		60%	10%	30%
Finance, Insurance, Real Estate	52,53,55		100%		
Administration & Support	56	30%	30%	10%	30%
Personal Services	72,81	40%	30%	10%	20%
Entertainment, Recreation	71	30%	10%		60%
Health Services	62	30%	30%	10%	30%
Educational Services	61		20%		80%
Other Professional and Related Services	54		90%		10%
Public Administration	92	10%	40%	20%	30%
Industries Not Classified	99				100%

The top-down aspect of the projection was developed only for the population and employment components of the forecast, as the remainder of the forecast categories (number of workers, households, and passenger vehicle registrations) would be dependent on development patterns within the individual localities.

Figure 5: Hampton Roads Employment Projects by Sub-Group



The bottom-up forecast for the localities was developed in two stages. The first stage required a complete understanding of the development assumptions for each of the localities, as is consistent with scenario-based forecasting. To gain an understanding of expected development patterns, staff reviewed each of the locality's Comprehensive Plans and met with planning staff from all sixteen jurisdictions to ensure a full understanding of the current expectations and assumptions regarding future development. As development does not take place in an even and consistent manner across the region (development horizons may be 5, 10, or 15 years out), the decision was made to forecast only the horizon year and not the intermediary years.⁸

⁸ Intermediary estimates are often provided when pure mathematical models are employed as the forecasting technique. Unlike purely mathematical models, scenario based forecasts can recognize that change may not take place in a consistent manner.

Guided by the information provided by the planning department of each locality, jurisdiction specific forecasts were developed by combining scenario based forecasting with trend extrapolation. Various trend extrapolation techniques were used, depending on the development patterns assumed by each locality. Undisclosed data from the Virginia Employment Commission, the Bureau of Labor Statistics, and the Bureau of Economic Analysis was used in the development of each of the locality projections. The cumulative employment and population totals for the localities were aligned to fit into the regional and sub-regional control totals, thus completing the top-down, bottom up forecast.

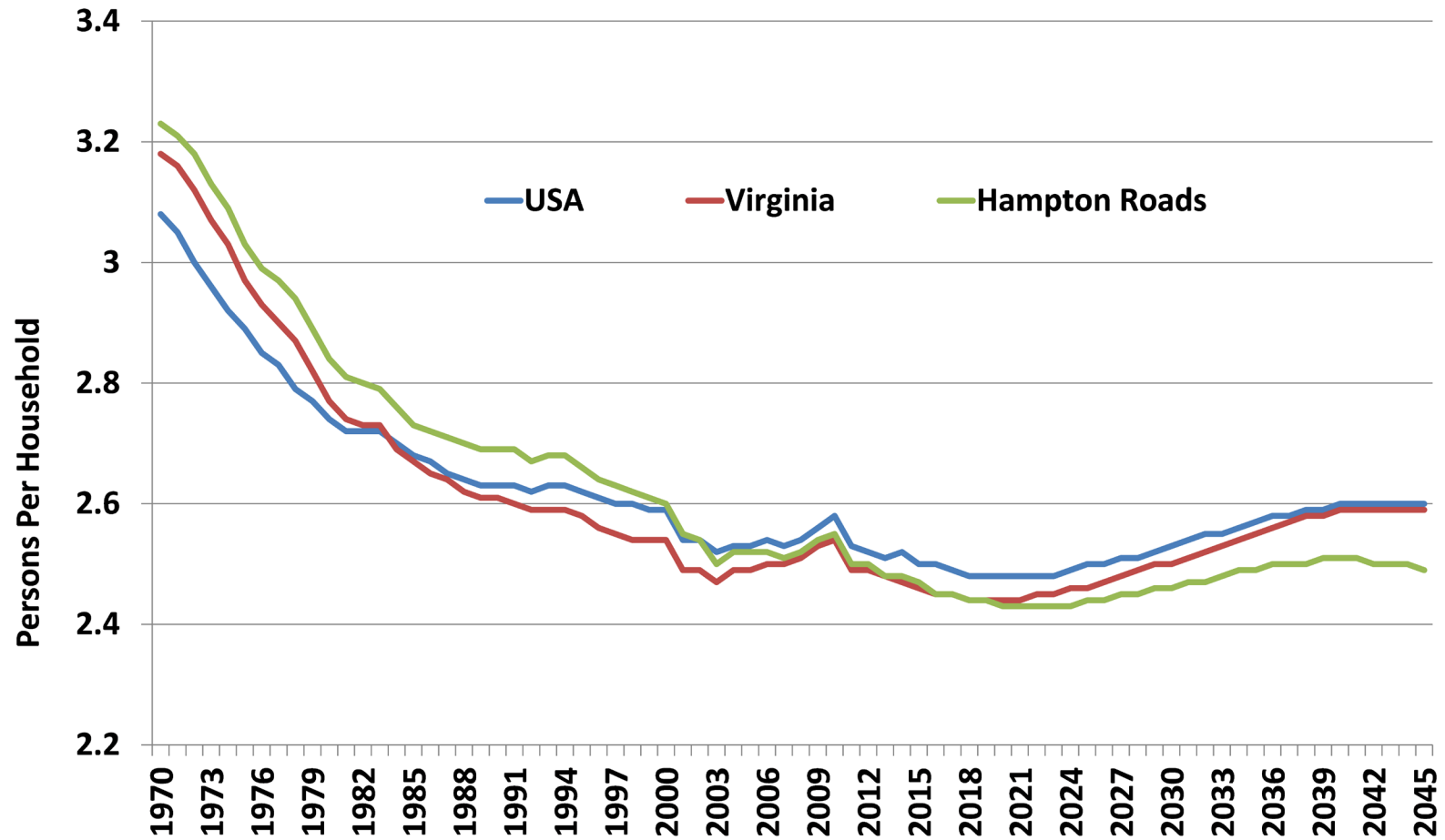
In order to determine the estimated number of households for each locality, staff relied on analysis purchased from Woods & Poole Economics, an independent firm based out of Washington D.C. that specializes in long-term county economic and demographic projections. The forecast for households was determined by holding constant the current institutionalized population and dividing the remainder of the population by the Woods & Poole forecast for the projected number of persons-per-household for each locality.

The forecast for the number of workers by locality was dependent on each locality's population forecast and by the relationship that currently exists between population and workers within each locality.

Whereas the number of workers was determined to be dependent on population growth, the forecast for the number of vehicle registrations was based on the projected number of households. Technological advancements in the auto industry and increasingly popular ride-share technology will unquestionably influence vehicle registrations in the forecast time horizon. Over the next few decades the auto industry is expected to undergo a profound transformation. At present, there is little consensus as to how technological advancements will influence vehicle ownership. Given the uncertainty regarding vehicle usage, the number of vehicles per household was held constant using average vehicle per household from the 2010 – 2015 timeframe.

An explanation of the methodology along with the completed draft control totals for each locality was presented to the Transportation Technical Advisory Committee (TTAC) in May of 2017. The control totals were sent out for public review through June of 2017 at which time they were recommended for approval by TTAC. The HRTPO board unanimously approved the locality control totals in July of 2017. Once the control totals had been formally adopted by the HRTPO Board, each jurisdiction was charged with assigning the 2045 forecast data to the transportation analysis zones (TAZs) within the locality.

Figure 6: Persons Per Household



TAZ Allocation and Boundary Update

As part of the Long-Range Transportation Plan (LRTP) update, TAZ boundaries were reviewed and updated to ensure boundary consistency with current census boundaries, land use, compatibility with the transportation network, etc. HRTPO staff followed recommendations and guidelines from the Virginia Department of Transportation (VDOT) Travel Demand Modeling Policies and Procedures Manual and analyzed TAZs for potential modification. Localities and other stakeholders were also provided opportunities to review boundaries and make recommendations for TAZ modifications.

Many of the modifications made by the HRTPO to TAZs included realigning boundaries with current census, physical, and/or political boundaries that have evolved or shifted over time. Other modifications included merging multiple TAZs or splitting TAZs. Following the process of updating the boundaries, TAZs were renumbered across the region for organizational purposes.

Boundary modifications were reviewed by regional stakeholders, including locality staff and VDOT's modeling group, and comments/recommendations were included as appropriate.

Following the TAZ boundary update, the forecasting process to allocate the forecasted control totals to TAZs occurred. TAZs are a small-area geography used in the travel demand model; there are approximately 1,100 TAZs in the region (urban and rural). Socioeconomic data was allocated to this level to estimate traffic volumes and patterns in an effort to identify current and future deficiencies in the transportation network. These results can be used to identify where road improvements are needed within the region.

As part of the allocation process, control totals for Households, Total Employment, Retail Employment, Office Employment, Industrial Employment, and Other Employment were distributed to each jurisdiction. Staff from each locality allocated these control totals to

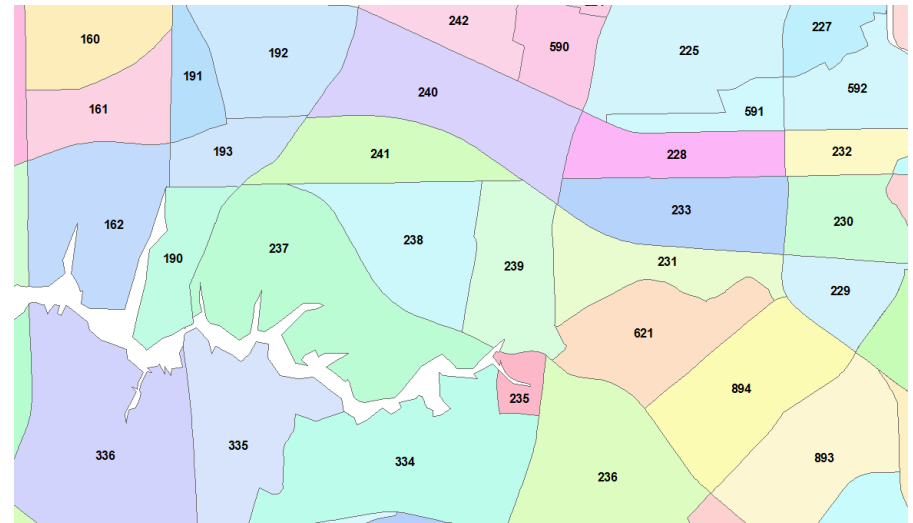


Figure 7: Transportation Analysis Zones

VDOT published the Travel Demand Modeling Policies and Procedures Manual in June 2014. This manual establishes guidelines for TAZ Structure based on best practices for delineating TAZs. Examples of these recommendations include:

- TAZs should be compatible with the base and future-year highway and transit networks
- TAZs boundaries should avoid concave borders
- TAZs should contain homogeneous land uses
- Population should be between 1,200 – 3,000 (with exceptions)
- The area of each TAZ should be between 0.25 – 1.00 sq. miles (with exceptions)

their respective TAZs. HRTPO staff then utilized these TAZ allocations to calculate the remaining socioeconomic TAZ totals for Population, Passenger Vehicles, and Workers.

Travel Demand Model

An important analysis tool in transportation planning is the travel demand model. The travel demand model is a computer program designed to simulate travel. The model uses socioeconomic data (households, population, auto ownership, workers, and employment) to estimate traffic volumes and patterns in an effort to identify current and future deficiencies in the transportation network.

Traditional travel demand models use a four-step process:

Trip Generation **How Many Trips?**

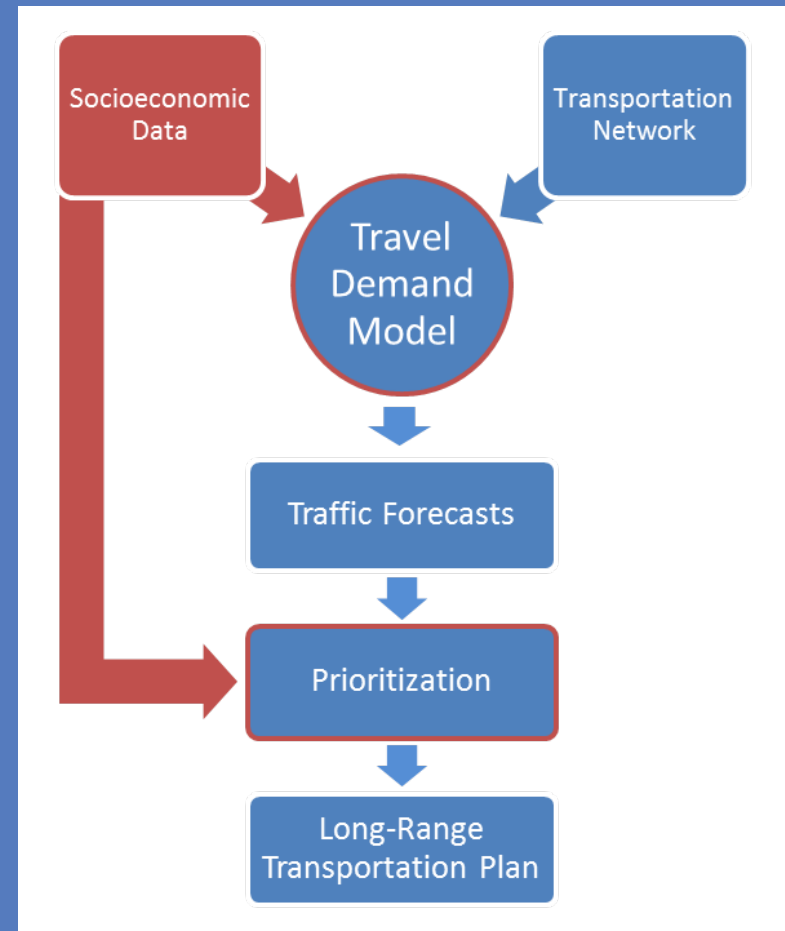
Trip Distribution **Where Will They Go?**

Mode Choice **How Will They Get There?**

Trip Assignment **What Route Will They Take?**

Trip Generation produces estimates of trip productions (origins) and trip attractions (destinations) by trip purpose (going to work, school, shopping, etc.). Trip Distribution determines where the trips are traveling from and to. Mode Choice decides by what mode the trips will be made (car, bus, light rail, carpool, etc.). Finally, Trip Assignment determines the best route the vehicle trips will take.

Results from the travel demand model are used in the Project Prioritization Tool and the LRTP to help identify where transportation improvements are needed within the region.



Hampton Roads 2045 Socioeconomic Forecast

Table 1: Population Totals for Hampton Roads

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	775,253	849,550	1,018,986	1,085,471	1,152,606	1,196,615	1,416,015
Chesapeake	89,580	114,486	151,982	199,184	222,209	238,283	317,206
Franklin	6,880	7,308	7,864	8,346	8,582	8,535	8,751
Isle of Wight Co.	18,285	21,603	25,053	29,728	35,270	36,438	52,417
Norfolk	307,951	266,979	261,250	234,403	242,803	247,189	263,837
Portsmouth	110,963	104,577	103,910	100,565	95,535	96,874	97,752
Southampton Co.	18,582	18,731	17,550	17,482	18,570	18,551	20,218
Suffolk	45,024	47,621	52,143	63,677	84,585	90,426	129,682
Surry Co.	5,882	6,046	6,145	6,829	7,058	6,819	7,374
Virginia Beach	172,106	262,199	393,089	425,257	437,994	453,500	518,777
Peninsula	333,140	364,449	435,197	481,330	513,704	529,162	608,070
Gloucester Co.	14,059	20,107	30,131	34,780	36,858	37,072	41,252
Hampton	120,779	122,617	133,811	138,437	137,436	138,626	139,207
James City Co.	17,853	22,339	34,859	48,102	67,009	73,325	120,741
Newport News	138,177	144,903	171,439	180,150	180,719	183,454	189,962
Poquoson	5,441	8,726	11,005	11,566	12,150	12,359	12,637
Williamsburg	9,069	10,294	11,530	11,998	14,068	14,860	18,341
York Co.	27,762	35,463	42,422	56,297	65,187	69,466	85,930
Hampton Roads	1,108,393	1,213,999	1,454,183	1,566,801	1,666,310	1,725,777	2,024,085

Source of historical data: U.S. Census Bureau, Weldon Cooper Center, and HRPDC.
2045 Forecast prepared by the HRTPO staff July 2017.

Table 2: Number of Households in Hampton Roads

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	218,088	266,353	344,456	395,619	426,133	429,122	511,999
Chesapeake	25,178	36,362	52,024	69,900	79,574	81,518	111,673
Franklin	2,113	2,591	3,011	3,384	3,530	3,453	3,553
Isle of Wight Co.	5,028	7,050	9,031	11,319	13,718	13,769	20,197
Norfolk	86,607	74,955	79,518	86,210	86,485	87,045	92,387
Portsmouth	34,470	36,796	38,706	38,170	37,324	36,757	37,035
Southampton Co.	4,915	5,774	6,004	6,279	6,719	6,680	7,351
Suffolk	13,116	15,726	18,518	23,283	30,868	30,990	46,667
Surry Co.	1,576	2,002	2,279	2,619	2,826	2,668	2,868
Virginia Beach	45,085	85,097	135,365	154,455	165,089	166,242	190,268
Peninsula	92,909	124,178	159,724	183,488	199,950	197,470	230,966
Gloucester Co.	4,431	7,159	10,957	13,127	14,293	14,280	15,877
Hampton	34,564	41,550	49,680	53,887	55,031	52,940	53,252
James City Co.	4,551	7,493	12,990	19,003	26,860	28,000	47,825
Newport News	39,586	51,310	64,420	69,686	70,664	69,073	72,234
Poquoson	N/A	2,763	3,763	4,166	4,525	4,642	4,829
Williamsburg	2,396	3,024	3,462	3,619	4,571	4,538	6,017
York Co.	7,381	10,879	14,452	20,000	24,006	23,997	30,933
Hampton Roads	310,997	390,531	504,180	579,107	626,083	626,592	742,965

Source of historical data: U.S. Census Bureau.
2045 Forecast prepared by the HRTPO staff July 2017.

Table 3: Number of Vehicles in Hampton Roads

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	231,316	425,239	613,064	762,371	864,362	896,659	1,065,120
Chesapeake	31,108	62,967	101,571	148,000	176,139	187,620	252,166
Franklin	1,036	4,341	4,967	5,775	6,368	6,434	6,514
Isle of Wight Co.	5,736	12,410	19,248	26,062	33,625	35,029	50,446
Norfolk	86,358	114,263	129,858	144,024	153,058	157,062	165,107
Portsmouth	35,828	50,267	59,563	63,153	66,352	66,854	66,593
Southampton Co.	5,173	9,414	11,879	14,034	16,439	16,290	17,956
Suffolk	4,452	24,710	33,816	48,661	67,091	70,964	104,151
Surry Co.	1,723	3,599	5,102	6,283	7,370	7,289	7,653
Virginia Beach	59,902	143,268	247,060	306,379	337,920	349,117	394,534
Peninsula	110,481	192,989	279,223	357,595	412,325	419,756	484,392
Gloucester Co.	5,065	12,621	23,125	30,378	35,818	35,978	39,894
Hampton	42,797	66,132	87,366	97,982	104,189	102,290	101,837
James City Co.	3,958	11,319	22,776	37,423	52,673	54,084	93,067
Newport News	44,434	73,756	98,570	127,726	141,874	142,893	147,204
Poquoson	N/A	5,272	8,470	10,031	11,336	11,398	11,976
Williamsburg	4,144	6,531	9,910	9,957	13,018	17,320	20,040
York Co.	10,083	17,358	29,006	44,098	53,417	55,793	70,375
Hampton Roads	341,797	618,228	892,287	1,119,966	1,276,687	1,316,415	1,549,512

Source of historical data: Virginia Department of Motor Vehicles.
2045 Forecast prepared by the HRTPO staff July 2017.

Table 4: Number of Workers in Hampton Roads (by place of residence)

	1980	1990	2000	2010	2015	Forecast 2045
Southside	387,154	511,022	531,417	579,237	581,926	630,872
Chesapeake	48,649	75,610	96,977	110,539	110,653	135,259
Franklin	2,732	3,272	3,337	3,078	3,341	3,146
Isle of Wight Co.	9,299	11,637	13,986	17,380	17,249	22,784
Norfolk	127,689	130,549	112,083	121,083	123,302	120,846
Portsmouth	41,576	44,390	43,922	44,871	42,374	39,262
Southampton Co.	7,065	7,255	6,945	8,445	7,817	7,823
Suffolk	19,100	22,255	28,372	39,012	40,414	53,220
Surry Co.	2,382	2,622	3,147	3,217	3,129	3,107
Virginia Beach	128,662	213,432	222,648	231,612	233,647	245,425
Peninsula	165,816	212,763	229,790	250,121	245,409	277,742
Gloucester Co.	8,447	14,387	16,952	18,003	17,829	19,654
Hampton	54,862	66,008	66,101	66,680	64,027	63,694
James City Co.	10,133	17,692	21,922	30,264	31,537	51,445
Newport News	67,023	82,662	86,282	90,519	87,916	90,184
Poquoson	4,015	5,700	5,658	5,917	5,936	6,013
Williamsburg	4,366	4,894	4,239	5,705	5,784	7,072
York Co.	16,970	21,420	28,636	33,033	32,380	39,680
Hampton Roads	552,970	723,785	761,207	829,358	827,335	908,614

Source of historical data: U.S. Census Bureau.
2045 Forecast prepared by the HRTPO staff July 2017.

Table 5: Employment Totals in Hampton Roads (by place of work)

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	388,716	472,753	614,446	673,958	693,643	724,838	771,266
Chesapeake	22,566	32,288	62,605	102,765	121,687	127,190	138,475
Franklin	3,397	4,091	4,685	5,560	5,861	5,863	6,392
Isle of Wight Co.	9,301	11,880	12,133	16,134	14,230	15,599	17,498
Norfolk	211,278	230,199	259,481	225,319	210,988	211,869	216,143
Portsmouth	48,087	53,996	58,979	52,831	57,413	60,795	65,692
Southampton Co.	6,124	5,927	5,461	6,026	5,171	5,743	6,255
Suffolk	18,055	19,692	20,660	26,273	34,747	39,549	45,789
Surry Co.	3,662	3,073	3,193	2,604	3,040	3,272	3,714
Virginia Beach	66,246	111,607	187,249	236,446	240,506	254,958	271,307
Peninsula	153,365	190,391	256,242	289,273	296,970	302,168	337,008
Gloucester Co.	3,493	6,468	9,700	13,002	14,029	13,960	15,906
Hampton	50,259	60,965	76,339	83,361	76,913	75,251	78,694
James City Co.	5,646	12,330	19,645	25,943	36,401	40,105	45,921
Newport News	75,753	85,370	110,589	115,678	119,642	123,464	137,977
Poquoson	999	1,611	2,160	2,674	2,607	2,083	2,585
Williamsburg	8,765	12,680	19,133	23,869	17,902	16,188	17,961
York Co.	8,450	10,967	18,676	24,746	29,476	31,117	37,963
Hampton Roads	542,081	663,144	870,688	963,231	990,613	1,027,006	1,108,274

Source of historical data: Bureau of Economic Analysis.
2045 Forecast prepared by the HRTPO staff July 2017.

**Table 6: Retail Employment in Hampton Roads
(by place of work)**

	2010	2015	Forecast 2045
Southside	150,033	160,556	175,501
Chesapeake	30,619	32,527	36,307
Franklin	2,059	2,134	2,377
Isle of Wight Co.	2,713	3,165	3,807
Norfolk	38,439	39,401	40,510
Portsmouth	11,275	12,225	13,622
Southampton Co.	667	845	906
Suffolk	8,394	9,576	11,456
Surry Co.	439	470	558
Virginia Beach	55,427	60,213	65,958
Peninsula	66,700	69,473	78,179
Gloucester Co.	3,871	3,985	4,757
Hampton	16,883	17,472	17,581
James City Co.	9,247	9,875	10,927
Newport News	23,669	24,946	28,353
Poquoson	613	642	742
Williamsburg	4,473	4,340	4,756
York Co.	7,944	8,213	11,063
Hampton Roads	216,733	230,029	253,680

**Table 7: Office Employment in Hampton Roads
(by place of work)**

	2010	2015	Forecast 2045
Southside	255,877	266,614	283,270
Chesapeake	42,041	44,083	48,438
Franklin	2,066	1,909	2,039
Isle of Wight Co.	4,197	4,458	4,878
Norfolk	79,789	79,799	81,398
Portsmouth	19,920	21,052	22,688
Southampton Co.	1425	1690	1752
Suffolk	11,549	13,871	15,911
Surry Co.	739	796	877
Virginia Beach	94,152	98,956	105,289
Peninsula	98,748	99,466	111,706
Gloucester Co.	4,489	4,408	5,073
Hampton	27,528	26,444	27,619
James City Co.	12,127	14,503	17,415
Newport News	38,062	38,543	42,423
Poquoson	745	705	827
Williamsburg	6,165	4,279	4,982
York Co.	9,632	10,584	13,367
Hampton Roads	354,625	366,080	394,976

Source of historical data: Bureau of Economic Analysis, VEC, and HRPDC.
2045 Forecast prepared by the HRTPO staff July 2017.

**Table 8: Industrial Employment in Hampton Roads
(by place of work)**

	2010	2015	Forecast 2045
Southside	124,471	126,521	132,869
Chesapeake	23,621	24,003	25,255
Franklin	679	588	653
Isle of Wight Co.	4,689	4,894	5,492
Norfolk	37,933	37,344	38,081
Portsmouth	11,816	12,174	12,999
Southampton Co.	1843	1914	2262
Suffolk	7,137	7,466	8,852
Surry Co.	1367	1469	1696
Virginia Beach	35,386	36,670	37,579
Peninsula	60,355	61,061	67,934
Gloucester Co.	2,784	2,642	2,786
Hampton	12,534	11,856	12,740
James City Co.	6,295	5,619	6,454
Newport News	32,204	33,539	38,147
Poquoson	475	195	206
Williamsburg	1,043	2,010	2,119
York Co.	5,020	5,200	5,483
Hampton Roads	184,826	187,582	200,803

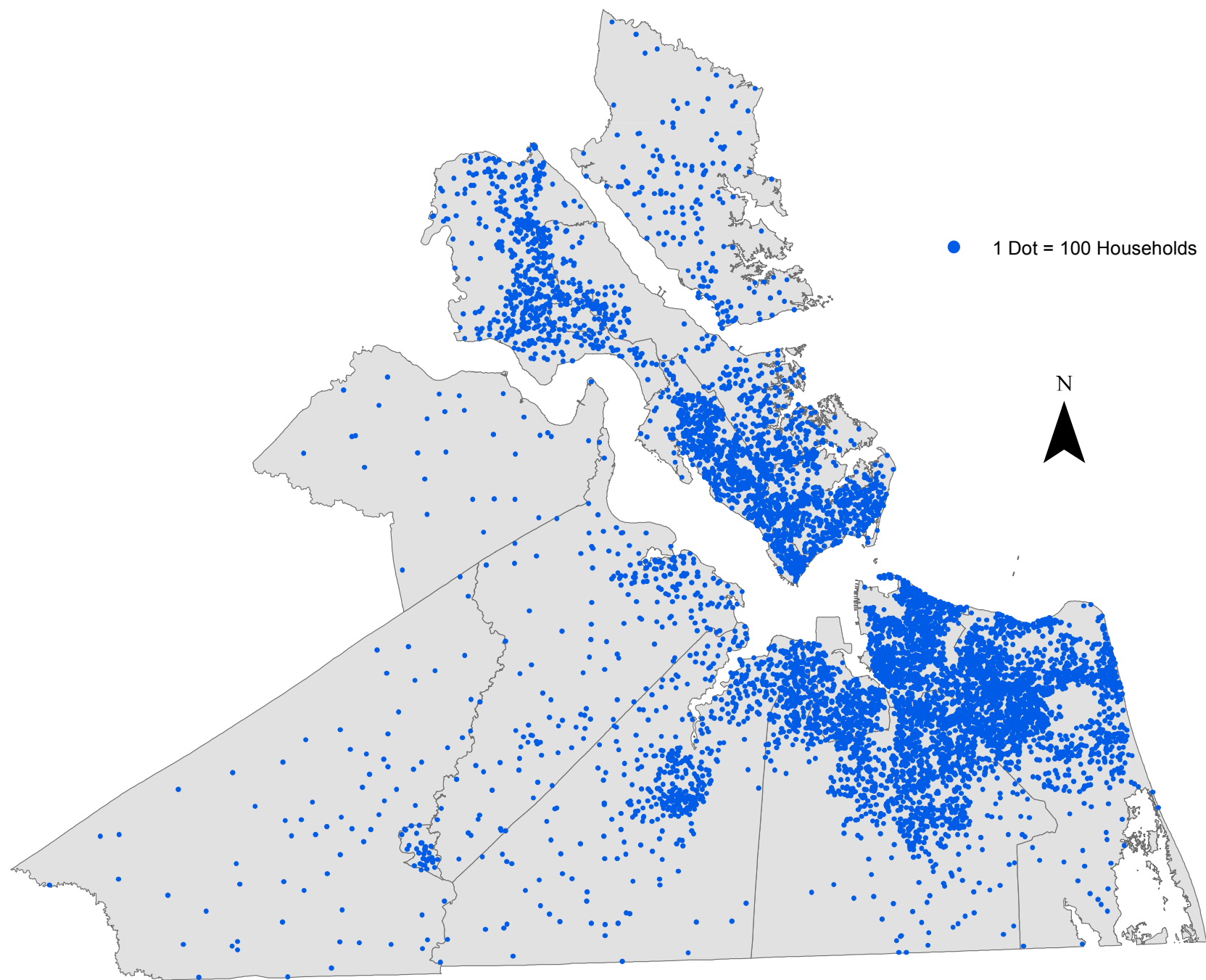
**Table 9: Other Employment in Hampton Roads
(by place of work)**

	2010	2015	Forecast 2045
Southside	163,261	171,147	179,626
Chesapeake	25,406	26,578	28,475
Franklin	1,057	1,232	1,323
Isle of Wight Co.	2,631	3,082	3,322
Norfolk	54,827	55,325	56,154
Portsmouth	14,401	15,344	16,383
Southampton Co.	1235	1294	1335
Suffolk	7,666	8,636	9,570
Surry Co.	496	537	584
Virginia Beach	55,541	59,119	62,481
Peninsula	71,166	72,167	79,188
Gloucester Co.	2,885	2,924	3,291
Hampton	19,968	19,479	20,754
James City Co.	8,732	10,108	11,125
Newport News	25,707	26,436	29,054
Poquoson	773	541	811
Williamsburg	6,221	5,559	6,104
York Co.	6,880	7,120	8,050
Hampton Roads	234,427	243,314	258,814

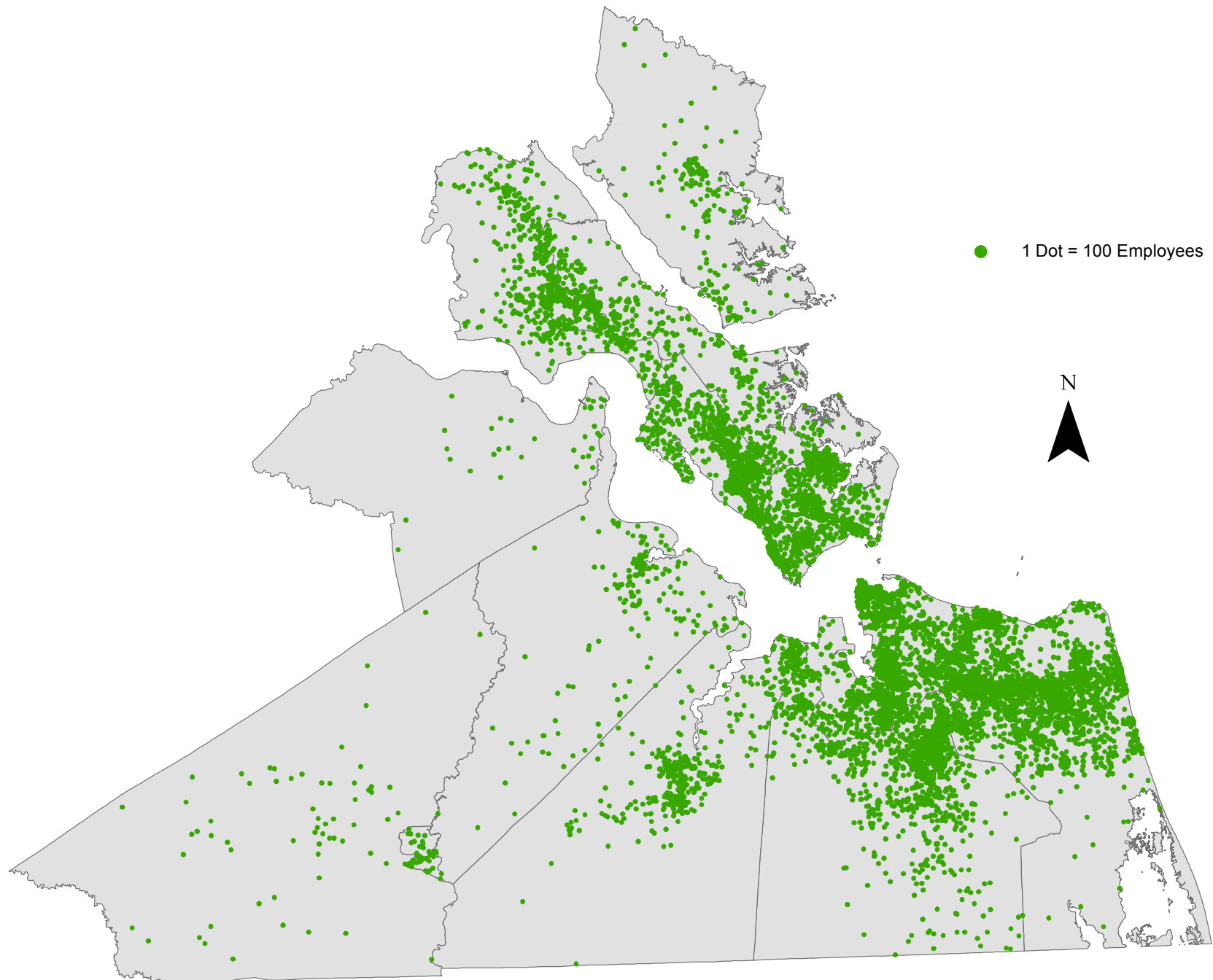
Source of historical data: Bureau of Economic Analysis, VEC, and HRPDC.
2045 Forecast prepared by the HRTPO staff July 2017.

Overview of 2045 Growth Patterns

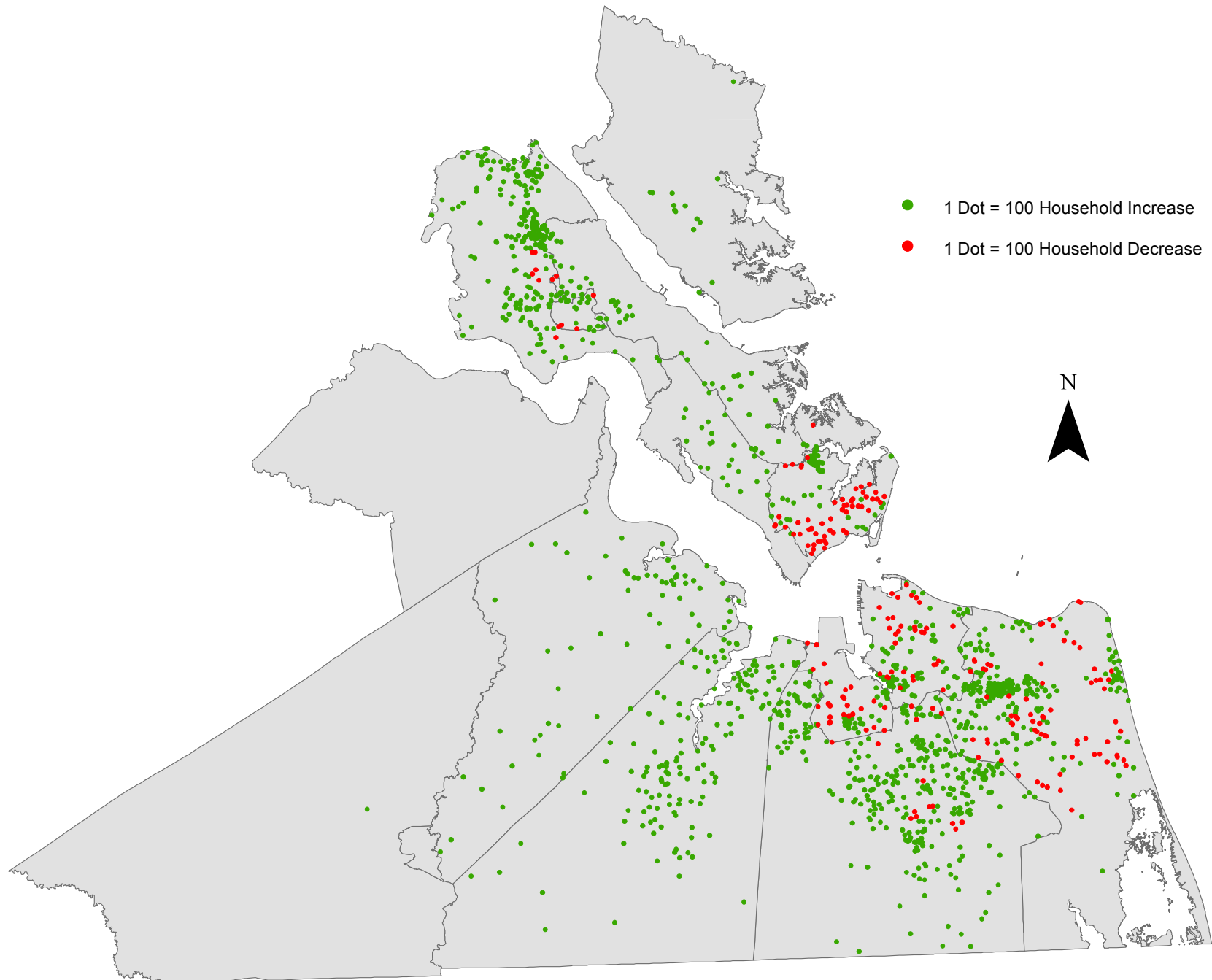
Map 1: 2045 Forecasted Households



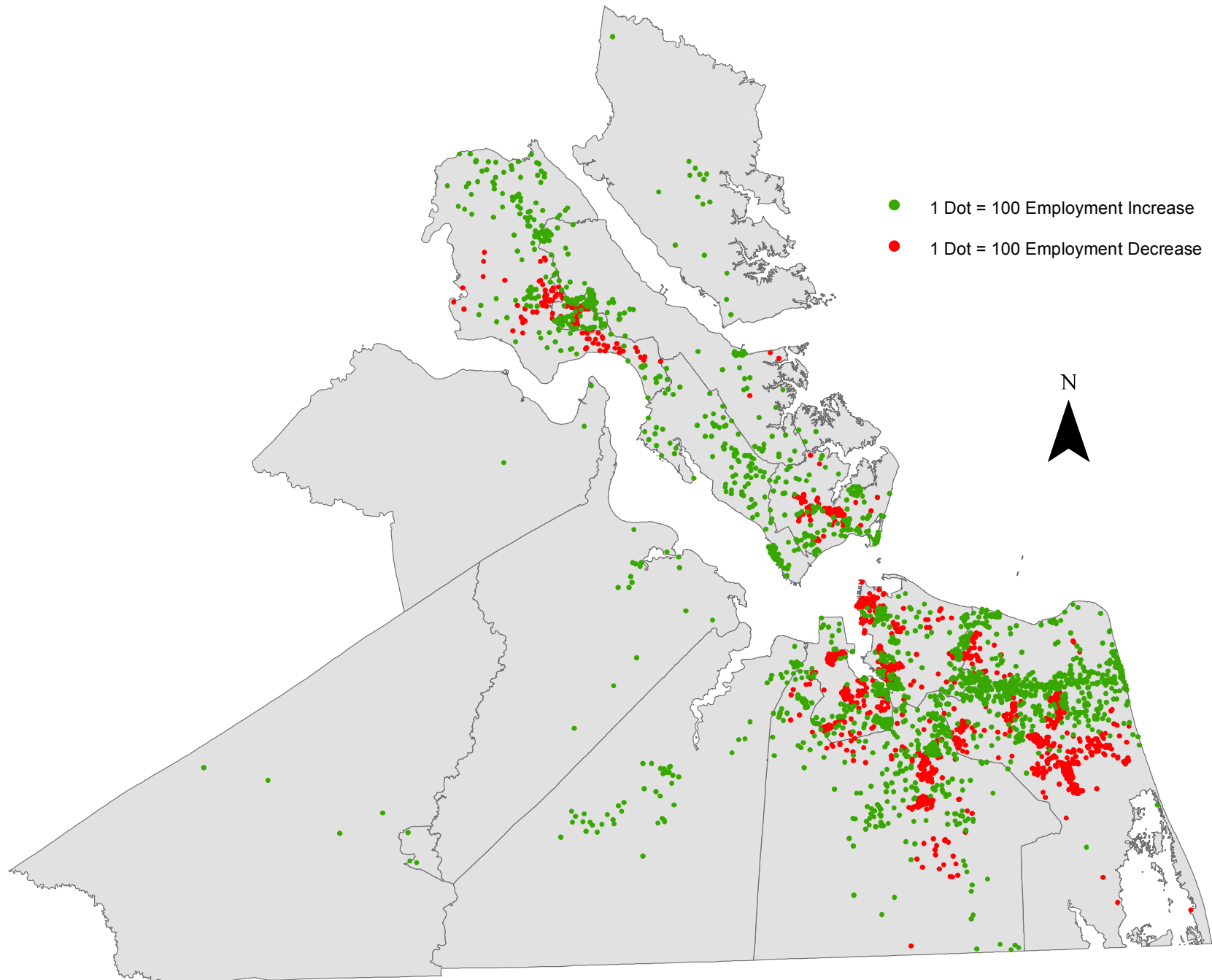
Map 2: 2045 Forecasted Total Employment



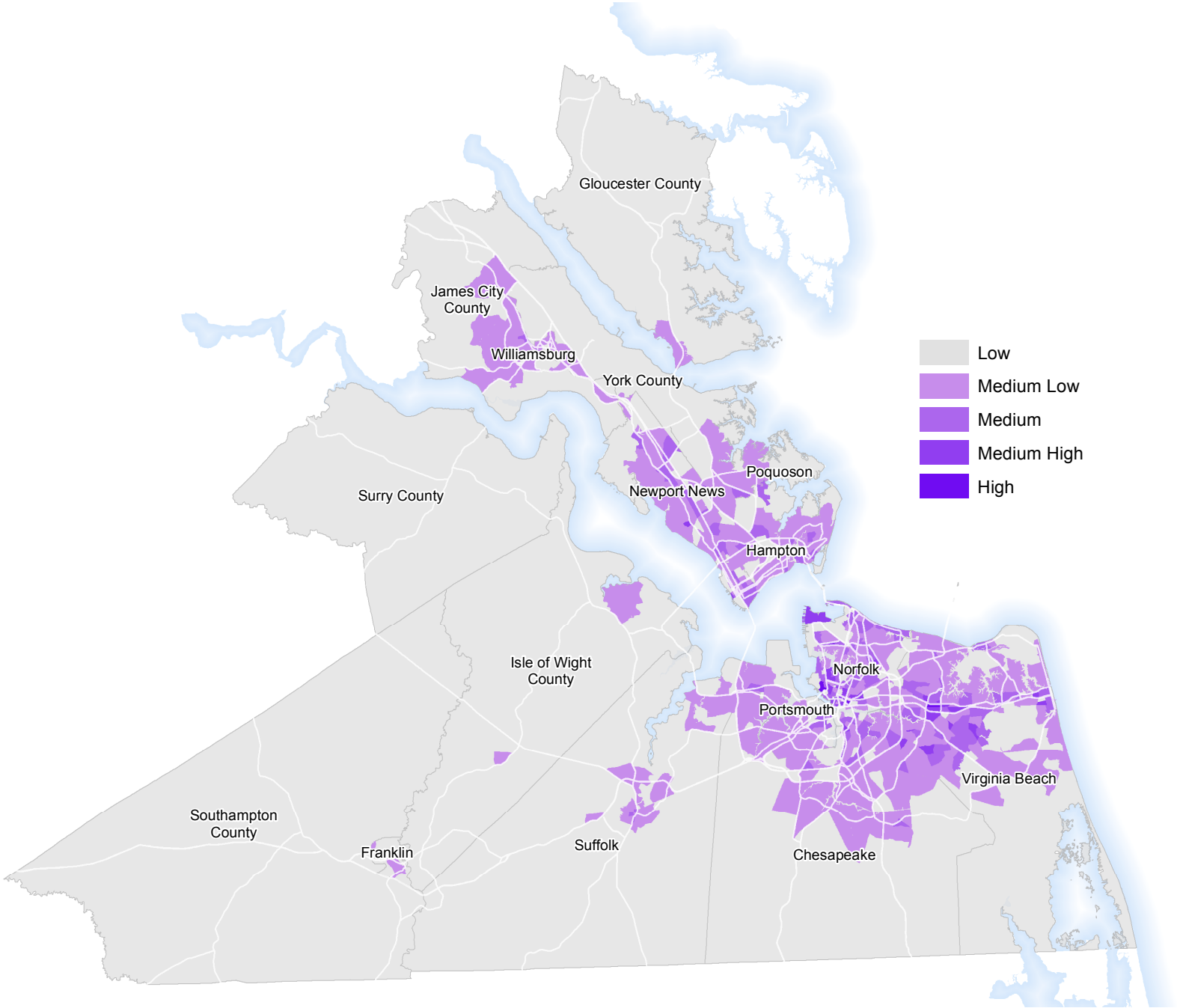
Map 3: Change in Forecasted Households, 2015 to 2045



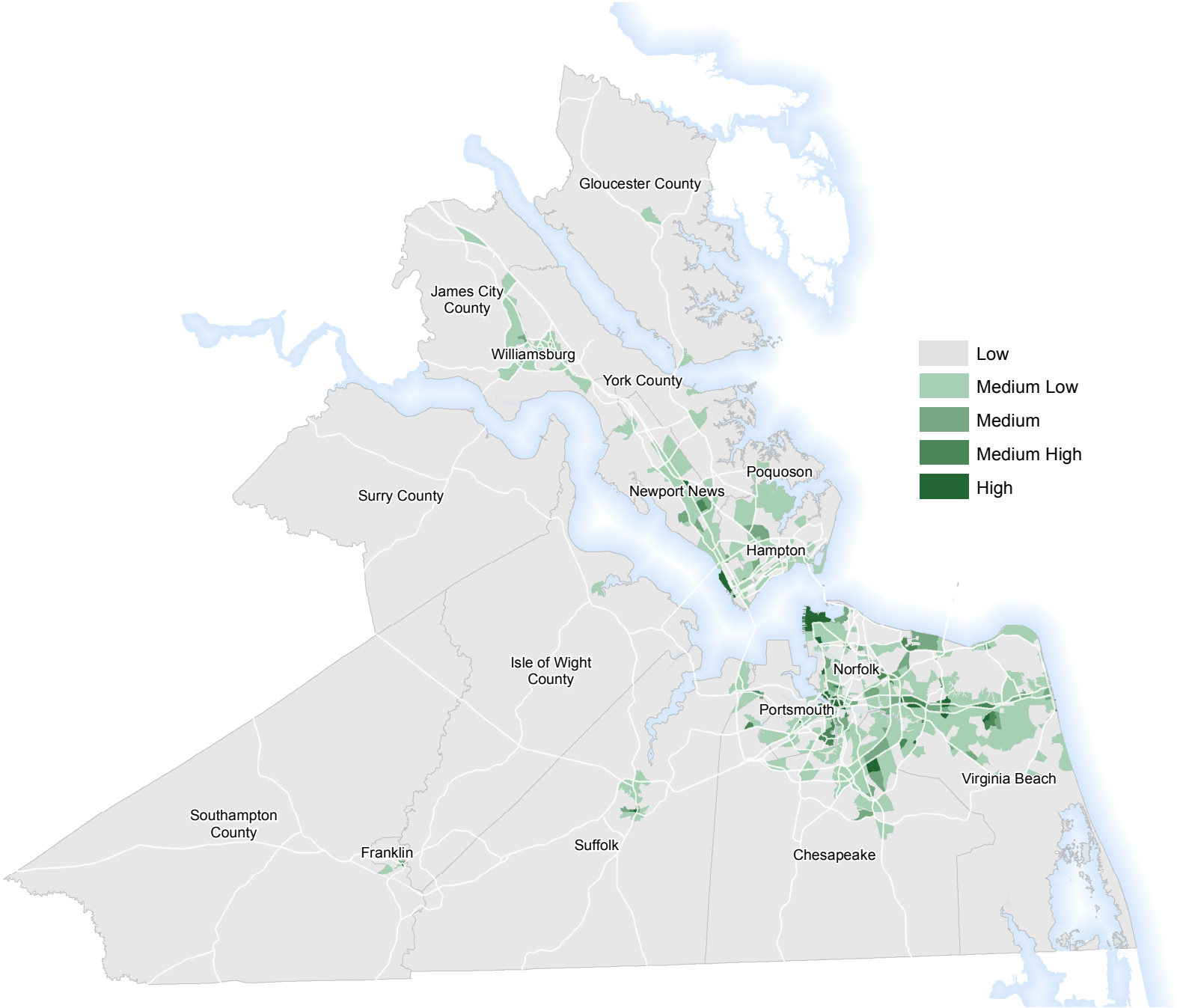
Map 4: Change in Forecasted Total Employment, 2015 to 2045



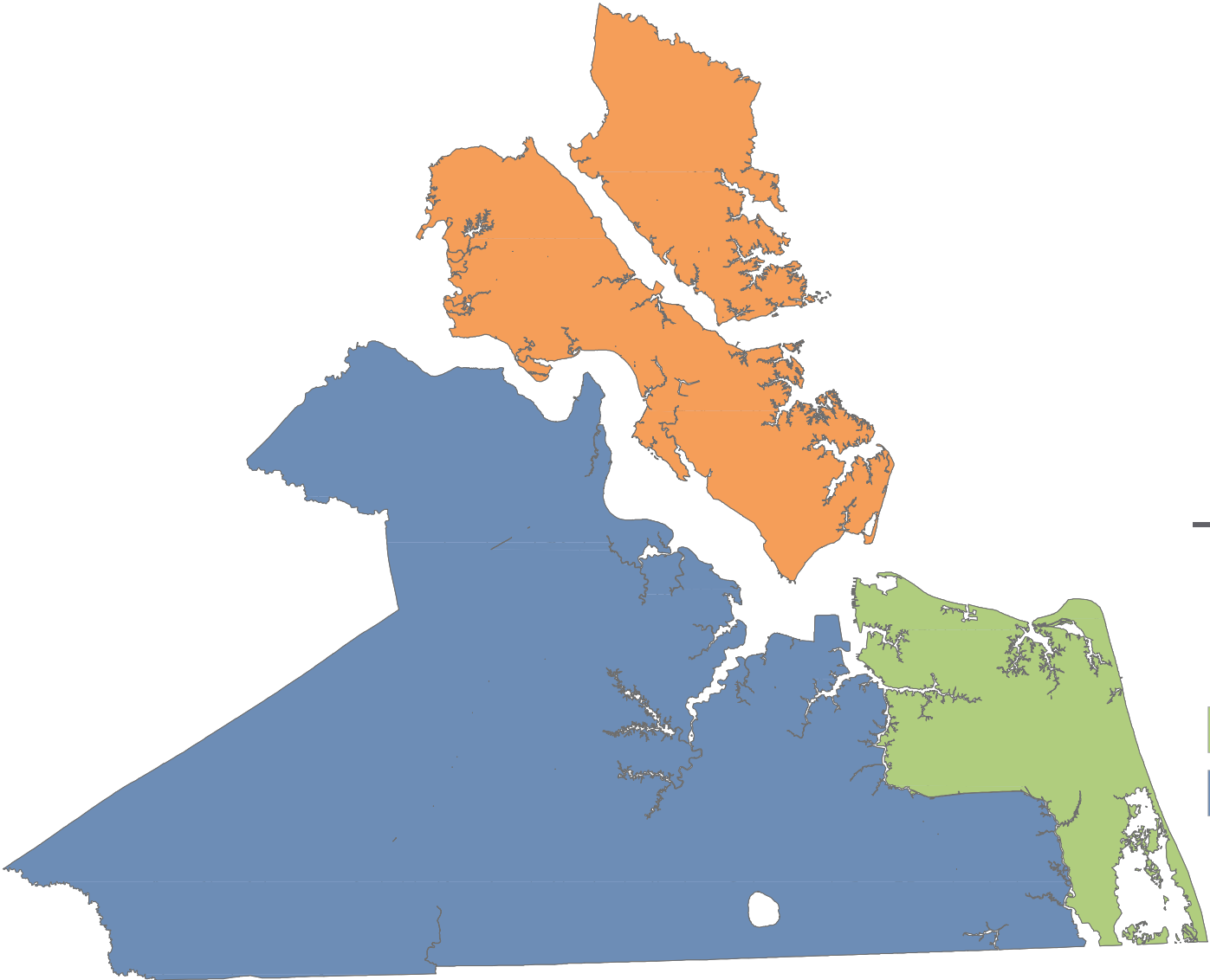
Map 5: 2045 Population Density (Per Square Mile)



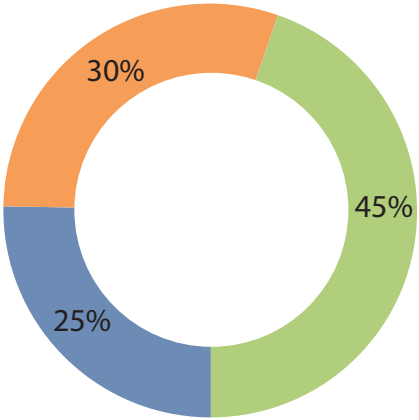
Map 6: 2045 Employment Density (Per Square Mile)



Map 7: Peninsula, East/West Southside Analysis - Forecasted Population



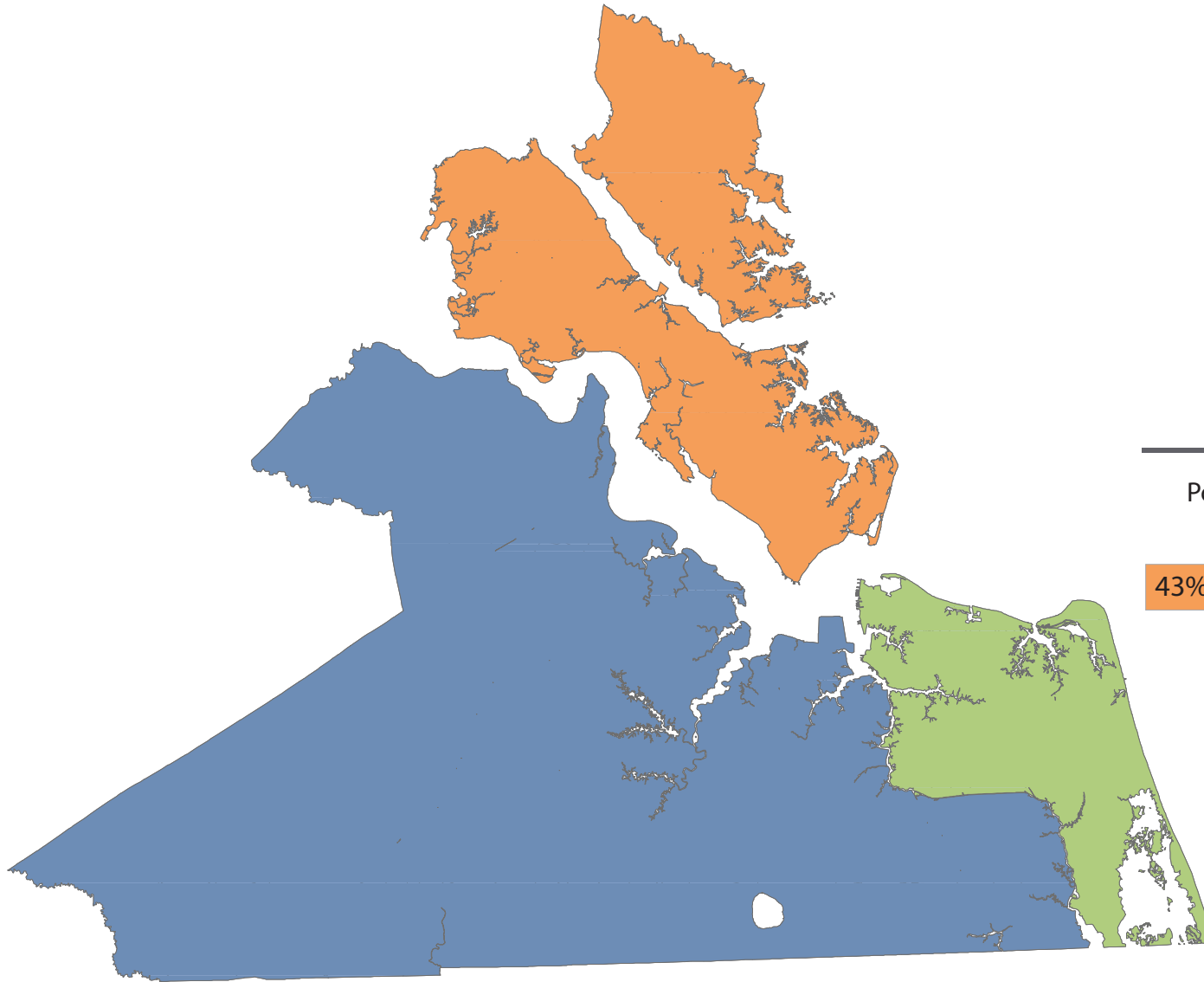
2045 Forecasted Population



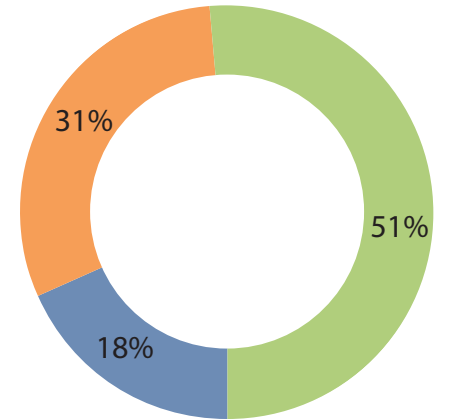
Portion of Forecasted Population Growth (2015 to 2045)



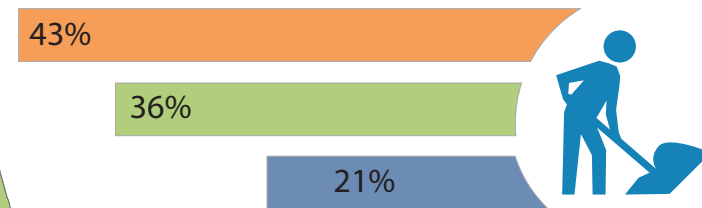
Map 8: Peninsula, East/West Southside Analysis - Forecasted Employment



2045 Forecasted Total Employment

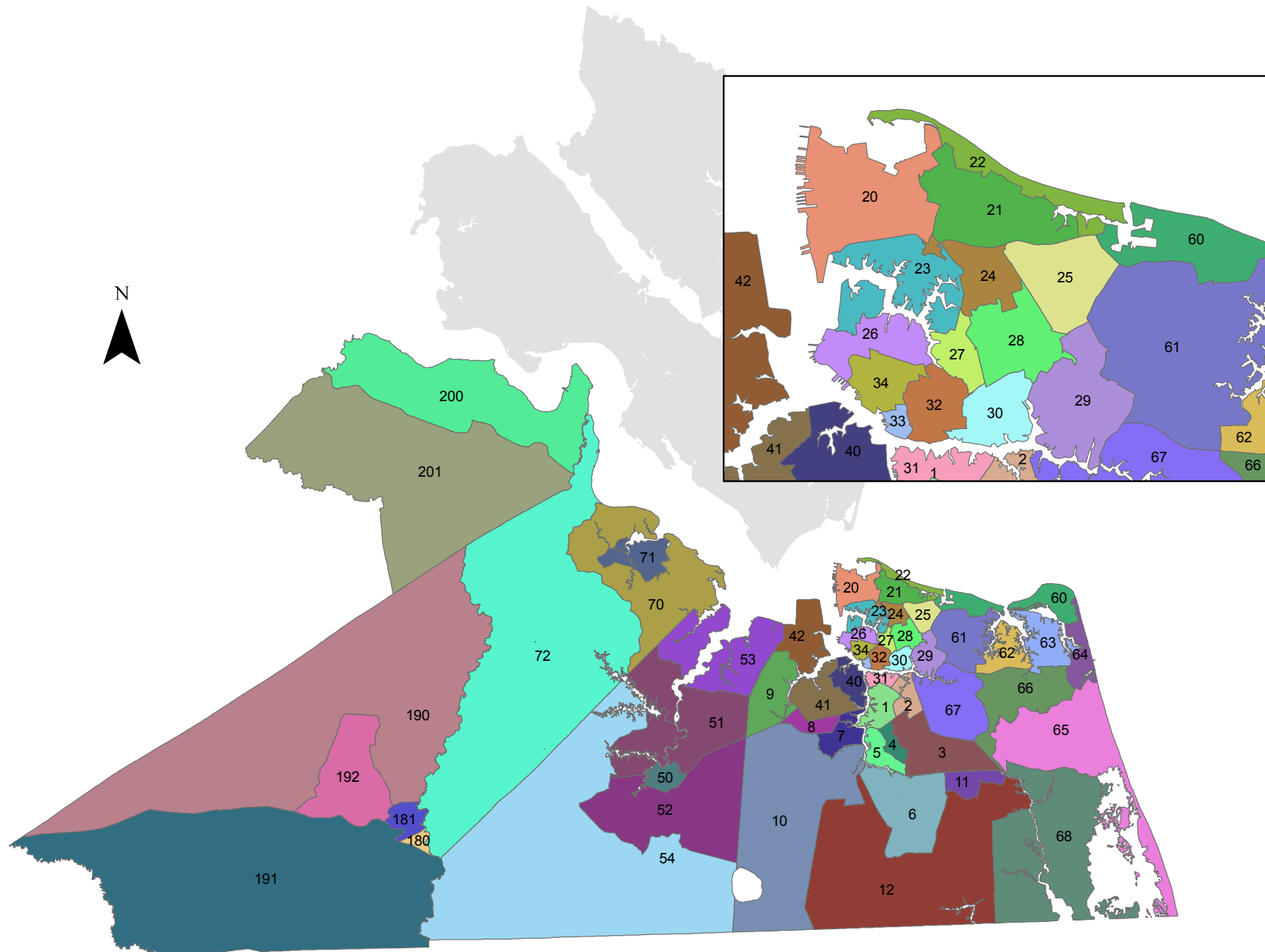


Portion of Forecasted Employment Growth (2015 to 2045)



2015 and 2045 Socioeconomic Data by Locality and District

Map 9: Hampton Roads Metropolitan Planning Area District Map (Southside)



Map 10: Hampton Roads Metropolitan Planning Area District Map (Peninsula)



2015 and 2045 Socioeconomic Data (by District and Locality)

District	Name	2015										2045										Change in Population	Change in Employment
		Population	Household	Autos	Workers	Total Employment	Employment Categories				Population	Household	Autos	Workers	Total Employment	Employment Categories							
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other				
1	South Norfolk	25,454	9,386	20,011	9,604	9,159	1,939	2,261	2,843	2,116	28,332	10,875	22,232	9,843	11,023	1,524	2,982	3,766	2,751	2,878	1,864		
2	Indian River	21,795	7,963	15,792	9,788	11,570	2,401	4,607	2,311	2,251	21,949	8,354	15,962	9,038	15,458	2,651	6,550	2,979	3,278	154	3,888		
3	Greenbrier East	28,489	11,067	22,133	14,291	35,185	11,115	12,936	5,673	5,461	47,488	18,668	35,184	21,716	39,025	13,222	13,881	6,120	5,802	18,999	3,840		
4	Greenbrier West	9,831	4,033	7,350	5,107	14,315	3,004	6,322	2,382	2,607	10,231	4,366	7,690	4,852	11,936	1,961	4,960	1,748	3,267	400	-2,379		
5	Crestwood	12,093	4,613	9,055	5,193	3,591	424	967	1,267	933	16,938	6,832	13,189	6,596	5,465	823	1,602	1,429	1,611	4,845	1,874		
6	Great Bridge	50,625	16,177	42,757	26,433	22,461	4,267	8,982	2,695	6,517	67,851	22,268	57,818	32,217	17,023	4,286	7,021	1,132	4,584	17,226	-5,438		
7	Deep Creek	13,891	4,770	11,431	6,131	5,255	1,020	1,125	1,372	1,738	15,434	5,546	13,000	6,335	5,220	1,099	1,447	1,426	1,248	1,543	-35		
8	Camelot	10,166	3,468	7,321	4,739	6,540	1,474	1,211	2,805	1,050	10,900	3,893	7,899	4,686	6,171	431	1,458	2,813	1,469	734	-369		
9	Western Branch	31,885	11,055	26,087	15,903	12,232	4,906	3,991	977	2,358	43,670	15,786	37,030	20,116	14,607	8,244	3,503	878	1,982	11,785	2,375		
10	South Chesapeake	16,456	5,050	13,548	7,454	2,039	520	465	413	641	27,841	9,045	23,956	11,714	5,680	1,233	2,111	1,002	1,334	11,385	3,641		
11	S.E. Chesapeake	2,790	797	1,837	1,186	590	108	173	167	142	3,278	977	2,174	1,279	625	224	123	163	115	488	35		
12	Rural Chesapeake	14,808	3,139	10,298	4,824	4,253	1,349	1,042	1,098	764	23,294	5,063	16,032	6,867	6,242	609	2,800	1,799	1,034	8,486	1,989		
CHESAPEAKE TOTAL		238,283	81,518	187,620	110,653	127,190	32,527	44,083	24,003	26,578	317,206	111,673	252,166	135,259	138,475	36,307	48,438	25,255	28,475	78,923	11,285		
20	Sewells Point	22,834	2,682	7,754	3,703	80,325	12,270	30,362	16,188	21,505	30,261	2,260	4,492	3,774	77,554	2,316	31,979	17,801	25,458	7,427	-2,771		
21	Bay View - East Little Creek	31,396	13,223	26,948	19,772	1,914	495	506	243	670	30,018	12,980	27,042	18,116	1,815	635	473	173	534	-1,378	-99		
22	Ocean View	17,425	8,629	11,011	11,368	1,505	521	477	126	381	18,883	9,575	12,798	11,768	1,454	777	326	132	219	1,458	-51		
23	Lafayette River	25,126	10,860	18,458	14,188	8,137	1,696	3,239	735	2,467	25,311	11,000	19,167	13,585	8,440	554	2,923	1,076	3,887	185	303		
24	Denby Park	14,501	5,972	10,180	8,279	5,931	2,321	1,735	669	1,206	13,994	5,922	9,854	7,622	6,200	3,022	1,831	697	650	-507	269		
25	Larrymore / Airport	9,502	4,018	9,819	5,338	3,124	933	1,078	333	780	9,252	4,015	9,881	4,978	3,510	1,680	1,061	517	252	-250	386		
26	Lambert's Point	15,185	5,475	7,953	8,958	6,596	1,275	1,621	463	3,237	15,834	5,775	8,477	8,905	6,155	1,896	1,436	549	2,274	649	-441		
27	Lafayette - Ballentine	9,512	3,761	7,559	5,915	246	246	257	155	183	9,382	3,815	7,845	5,618	1,125	377	264	197	287	-130	284		
28	Norview - River Oaks	21,310	8,452	17,630	13,598	8,619	1,770	3,388	1,684	1,777	20,485	8,515	17,836	12,664	8,590	2,918	3,080	1,231	1,361	963	-29		
29	Lake Taylor	12,538	5,039	11,504	8,084	23,664	4,857	10,409	2,834	5,564	13,471	5,670	12,858	8,132	27,835	9,998	9,389	2,647	5,801	933	4,171		
30	Chesterfield - Ingleside	9,458	3,259	5,877	4,512	7,294	1,020	2,028	2,883	1,363	10,747	3,880	6,486	4,636	7,300	1,852	2,239	1,801	1,408	1,289	6		
31	Berkley - Campostella	7,340	2,616	3,821	3,134	6,173	798	1,446	2,645	1,284	7,754	2,865	4,306	3,200	6,260	492	934	3,828	1,006	414	87		
32	Brambleton - Huntersville	17,434	5,384	6,644	5,163	7,796	2,056	1,975	975	2,790	21,892	5,865	7,144	5,590	10,495	1,818	4,478	1,257	2,942	4,458	2,699		
33	Downtown	3,166	1,205	2,315	2,568	25,000	3,355	13,152	3,414	5,079	5,247	3,200	6,052	3,654	26,700	6,991	13,518	2,776	3,415	2,081	1,700		
34	Ghent	30,462	6,470	9,589	8,722	24,950	5,788	8,126	3,997	7,039	30,946	7,050	10,869	8,604	22,710	5,184	7,467	3,399	6,660	484	-2,240		
NORFOLK TOTAL		247,189	87,045	157,062	123,302	211,869	39,401	79,799	37,344	55,325	263,837	92,387	165,107	120,846	216,143	40,510	81,398	38,081	56,154	16,648	4,274		
40	Downtown	21,564	8,178	11,287	8,085	33,054	5,836	13,294	7,163	6,761	23,325	8,791	12,338	8,290	46,269	5,550	18,477	10,232	12,010	1,761	13,215		
41	Manor	49,114	18,751	34,315	20,844	16,853	4,998	4,569	2,178	5,108	49,292	18,815	33,556	19,140	13,737	6,227	2,848	1,531	3,131	178	-3,116		
42	Churchland	26,196	9,828	21,252	13,445	10,888	1,391	3,189	2,833	3,475	25,135	9,429	20,699	11,832	5,686	1,845	1,363	1,236	1,242	-1,061	-5,202		
PORTSMOUTH TOTAL		96,874	36,757	66,854	42,374	60,795	12,225	21,052	12,174	15,344	97,752	37,035	66,593	39,262	65,692	13,622	22,688	12,999	16,383	878	4,897		
50	Downtown	17,782	6,330	11,212	6,495	10,015	2,130	3,388	2,230	2,267	19,683	7,328	12,393	6,525	10,131	2,189	3,471	2,377	2,094	1,901	116		
51	Middle Suffolk	22,216	7,293	15,451	10,333	14,224	3,357	5,050	2,778	3,039	34,514	11,940	24,696	14,434	16,458	3,817	5,835	3,519	3,287	12,298	2,234		
52	Southern Suffolk	8,116	2,833	7,011	3,515	2,104	588	533	444	539	13,643	4,983	11,803	5,378	2,889	969	696	634	590	5,527	785		
53	Northern Suffolk	30,484	10,259	24,820	14,860	11,474	3,102	4,526	1,603	2,243	45,777	16,341	38,273	20,406	13,167	3,601	5,268	1,851	2,447	15,293	1,693		
54	Rural S.W. Suffolk	11,828	4,275	12,470	5,211	1,732	399	374	411	548	16,065	6,075	16,986	6,477	3,144	880	641	471	1,152	4,237	1,412		
SUFFOLK TOTAL		90,426	30,990	70,964	40,414	39,549	9,576	13,871	7,466	8,636	129,682	46,667	104,151	53,220	45,789	11,456	15,911	8,852	9,570	39,256	6,240		
60	Bayfront	24,234	9,815	17,293	11,341	24,882	5,707	10,696	4,044	4,435	24,024	9,980	17,094	10,789	30,198	2,857	16,048	3,057	8,236	-210	5,316		
61	Bayside	63,231	24,666	55,668	29,681	36,525	9,304	11,430	7,887	7,904	90,027	35,360	74,185	37,964	41,471	10,156	15,625	6,655	9,035	26,796	4,946		
62	Little Neck	30,179	12,206	25,792	15,843	18,628	4,590	8,895	1,461	3,682	38,981	16,675	37,325	19,164	28,586	10,868	11,805	1,793	4,120	8,802	9,958		
63	Great Neck	39,299	15,849	31,797	20,205	16,758	5,103	4,448	1,518	5,689	37,790	15,428	29,858	18,521	22,587	6,270	8,833	2,317	5,167	-1,509	5,829		
64	Oceanfront	27,456	12,719	24,673	14,877	12,760	3,650	4,339	1,362	3,409	32,400	15,168	27,849	16,574	20,831	8,845	5,273	1,427	5,286	4,944	8,071		
65	Courthouse / Sandbridge	69,992	21,971	49,041	34,690	43,148	8,927	17,538	3,662	13,021	72,031	21,480	50,062	31,932	26,032	5,372	9,716	2,782	8,162	2,039	-17,116		
66	Holland / Oceana	89,159	30,131	60,260	45,270	65,625	15,480	25,987															

2015 and 2045 Socioeconomic Data (by District and Locality)

		2015										2045										Change In Population	Change In Employment
District	Name	Population	Household	Autos	Workers	Total Employment	Employment Categories				Population	Household	Autos	Workers	Total Employment	Employment Categories							
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other				
101	Southeast	19,249	6,852	9,950	6,519	7,602	1,320	2,923	1,014	2,345	19,898	7,168	10,255	6,690	8,496	1,506	3,237	1,166	2,587	649	894		
102	Huntington	2,767	1,282	2,191	1,530	33,801	313	7,819	21,656	4,013	2,866	1,341	2,257	1,570	37,774	338	8,529	24,552	4,355	99	3,973		
103	Copeland - Briarfield	10,997	4,755	9,184	5,486	3,429	660	933	1,057	779	11,385	4,972	9,461	5,627	3,832	749	1,028	1,198	857	388	403		
104	Sedgefield - Morrison	17,121	6,661	15,641	8,858	5,153	1,692	1,534	602	1,325	17,725	6,966	16,113	9,087	5,758	1,925	1,691	688	1,454	604	605		
105	Hilton - Riverside	27,446	10,027	22,678	12,618	17,492	4,486	6,047	860	6,099	28,474	10,487	23,365	12,945	19,549	5,114	6,679	992	6,764	1,028	2,057		
106	Menchville	19,440	7,072	19,336	10,663	1,845	404	605	282	554	20,129	7,396	19,918	10,937	2,061	460	669	322	610	689	216		
107	Denbigh	28,605	10,608	22,955	14,808	4,088	1,232	1,275	467	1,114	29,620	11,094	23,649	15,190	4,569	1,403	1,408	535	1,223	1,015	481		
108	Harpersville - Kiln Creek	12,737	5,415	9,807	6,566	1,717	545	580	158	434	13,187	5,662	10,102	6,736	1,919	621	641	180	477	450	202		
109	Oyster Point	12,784	5,619	8,233	6,513	23,829	6,680	8,973	3,659	4,517	13,237	5,876	8,482	6,680	26,630	7,586	9,891	4,189	4,964	453	2,801		
110	Patrick Henry	2,782	1,306	1,613	1,415	6,967	3,230	2,504	327	906	2,881	1,366	1,663	1,452	7,786	3,662	2,756	374	994	99	819		
111	Richneck	20,089	7,393	16,623	10,898	3,837	1,399	1,029	468	941	20,791	7,728	17,116	11,175	4,288	1,591	1,132	534	1,031	702	451		
112	Endview - Lee Hall	3,640	1,259	2,722	1,508	3,904	1,015	699	1,204	986	3,768	1,316	2,804	1,547	4,363	1,150	766	1,372	1,075	128	459		
113	Fort Eustis	5,797	824	1,960	534	9,800	1,970	3,622	1,785	2,423	6,001	862	2,019	548	10,952	2,248	3,996	2,045	2,663	204	1,152		
NEWPORT NEWS TOTAL		183,454	69,073	142,893	87,916	123,464	24,946	38,543	33,539	26,436	189,962	72,234	147,204	90,184	137,977	28,353	42,423	38,147	29,054	6,508	14,513		
120	Northampton	22,181	8,490	19,306	11,108	5,110	1,776	1,781	375	1,178	23,367	8,924	20,329	11,583	6,118	3,004	1,647	226	1,241	1,186	1,008		
121	Westhampton	11,866	4,819	9,734	5,369	7,328	2,053	1,468	2,424	1,383	9,795	3,955	8,029	4,411	7,870	2,973	1,209	2,157	1,531	-2,071	542		
122	Wythe - Southampton	24,679	9,510	16,591	10,823	10,414	1,975	3,556	2,248	2,635	21,211	8,174	14,151	9,074	12,796	1,802	4,594	3,106	3,294	-3,468	2,382		
123	Mercury Central	11,552	5,415	6,675	4,917	15,147	4,413	6,540	1,175	3,019	12,170	5,720	6,996	5,150	12,914	5,949	3,991	1,044	1,930	618	-2,233		
124	N.W. Quadrant - Magruder	13,188	4,662	10,405	6,948	26,459	4,768	9,741	4,238	7,712	21,757	8,130	16,594	11,029	26,404	1,401	11,958	4,595	8,450	8,569	-55		
125	N.E. Quadrant - Fox Hill	41,899	15,530	32,359	19,709	6,925	1,702	2,234	917	2,072	35,943	13,344	27,741	16,713	6,276	1,672	1,948	663	1,993	-5,956	-649		
126	Buckroe - Phoebus	13,261	4,514	7,220	5,153	3,868	785	1,124	479	1,480	14,964	5,005	7,997	5,734	6,316	780	2,272	949	2,315	1,703	2,448		
HAMPTON TOTAL		138,626	52,940	102,290	64,027	75,251	17,472	26,444	11,856	19,479	139,207	53,252	101,837	63,694	78,694	17,581	27,619	12,740	20,754	581	3,443		
130	POQUOSON TOTAL	12,359	4,642	11,398	5,936	2,083	642	705	195	541	12,637	4,829	11,976	6,013	2,585	742	827	206	811	278	502		
140	WILLIAMSBURG TOTAL	14,860	4,538	17,320	5,784	16,188	4,340	4,279	2,010	5,559	18,341	6,017	20,040	7,072	17,961	4,756	4,982	2,119	6,104	3,481	1,773		
150	Grove	22,217	8,497	17,561	8,861	15,994	3,503	5,908	2,332	4,251	25,086	10,124	20,000	9,510	15,560	3,409	5,465	2,586	4,100	2,869	-434		
151	Lake Powell	16,775	6,652	10,805	6,952	11,730	3,685	4,577	983	2,485	21,900	8,845	14,507	8,338	11,862	4,089	4,472	604	2,697	5,125	132		
152	Jolly Pond	19,572	7,484	13,086	8,300	5,988	1,287	1,833	884	1,984	27,970	11,313	19,653	11,494	5,119	722	2,238	336	1,823	8,398	-869		
153	Toano	14,761	5,367	12,632	7,424	6,393	1,400	2,185	1,420	1,388	45,785	17,543	38,907	22,103	13,380	2,707	5,240	2,928	2,505	31,024	6,987		
JAMES CITY COUNTY TOTAL		73,325	28,000	54,084	31,537	40,105	9,875	14,503	5,619	10,108	120,741	47,825	93,067	51,445	45,921	10,927	17,415	6,454	11,125	47,416	5,816		
160	Tabb / Grafton	43,988	14,917	35,717	20,618	8,416	1,981	2,658	1,475	2,302	45,357	15,649	37,403	20,973	9,629	2,845	3,649	1,434	1,701	1,369	1,213		
161	Watershed Area	8,608	3,424	7,048	4,572	5,145	1,582	1,582	1,143	838	11,055	4,502	9,258	6,026	5,845	2,050	2,016	1,211	568	2,447	700		
162	Yorktown	3,237	1,049	2,021	1,168	1,341	318	427	195	401	4,106	1,359	2,817	1,479	2,888	386	724	496	1,282	869	1,547		
163	Federal Property	1,311	233	1,115	280	6,900	966	2,665	1,414	1,855	1,292	234	1,112	272	6,226	855	2,237	1,135	1,999	-19	-674		
164	Williamsburg Area	12,322	4,374	9,892	5,742	9,315	3,366	3,252	973	1,724	24,120	9,189	19,785	10,930	13,375	4,927	4,741	1,207	2,500	11,798	4,060		
YORK COUNTY TOTAL		69,466	23,997	55,793	32,380	31,117	8,213	10,584	5,200	7,120	85,930	30,933	70,375	39,680	37,963	11,063	13,367	5,483	8,050	16,464	6,846		
170	Rte. 17 Corridor	22,512	8,483	22,009	10,472	12,267	3,531	3,920	2,296	2,520	26,584	9,980	25,842	12,286	13,979	4,203	4,532	2,393	2,851	4,072	1,712		
171	E Gloucester	14,560	5,797	13,969	7,357	1,693	454	488	346	405	14,668	5,897	14,052	7,368	1,927	554	541	393	440	108	234		
GLOUCESTER COUNTY TOTAL		37,072	14,280	35,978	17,829	13,960	3,985	4,408	2,642	2,924	41,252	15,877	39,894	19,654	15,906	4,757	5,073	2,786	3,291	4,180	1,946		
PENINSULA TOTAL		529,162	197,470	419,756	245,409	302,168	69,473	99,466	61,061	72,167	608,070	230,966	484,392	277,742	337,008	78,179	111,706	67,934	79,188	78,908	34,839		
HAMPTON ROADS TOTAL		1,725,777	626,592	1,316,415	827,335	1,027,006	230,029	366,080	187,582	243,314	2,024,085	742,965	1,549,512	908,614	1,108,274	253,680	394,976	200,803	258,814	298,507	81,266		
HR TOTAL REGIONAL MODELING AREA ¹		1,718,958	623,924	1,309,126	824,206	1,023,734	229,559	365,284	186,113	242,777	2,016,711	740,097	1,541,859	905,507	1,104,560	253,122	394,099	199,107	258,230	297,753	80,826		

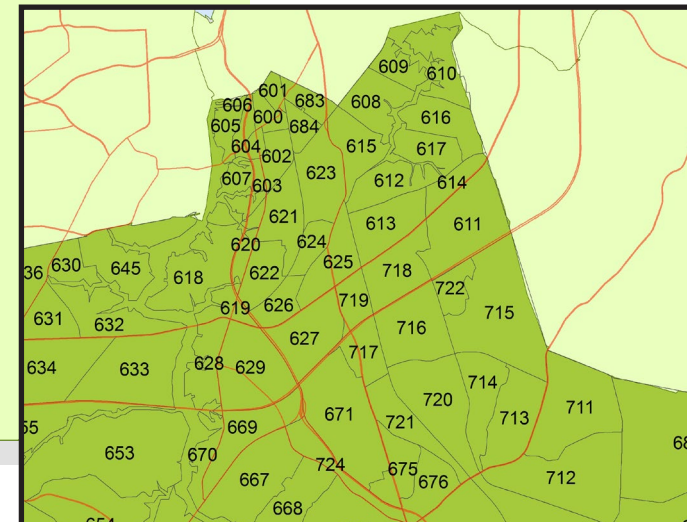
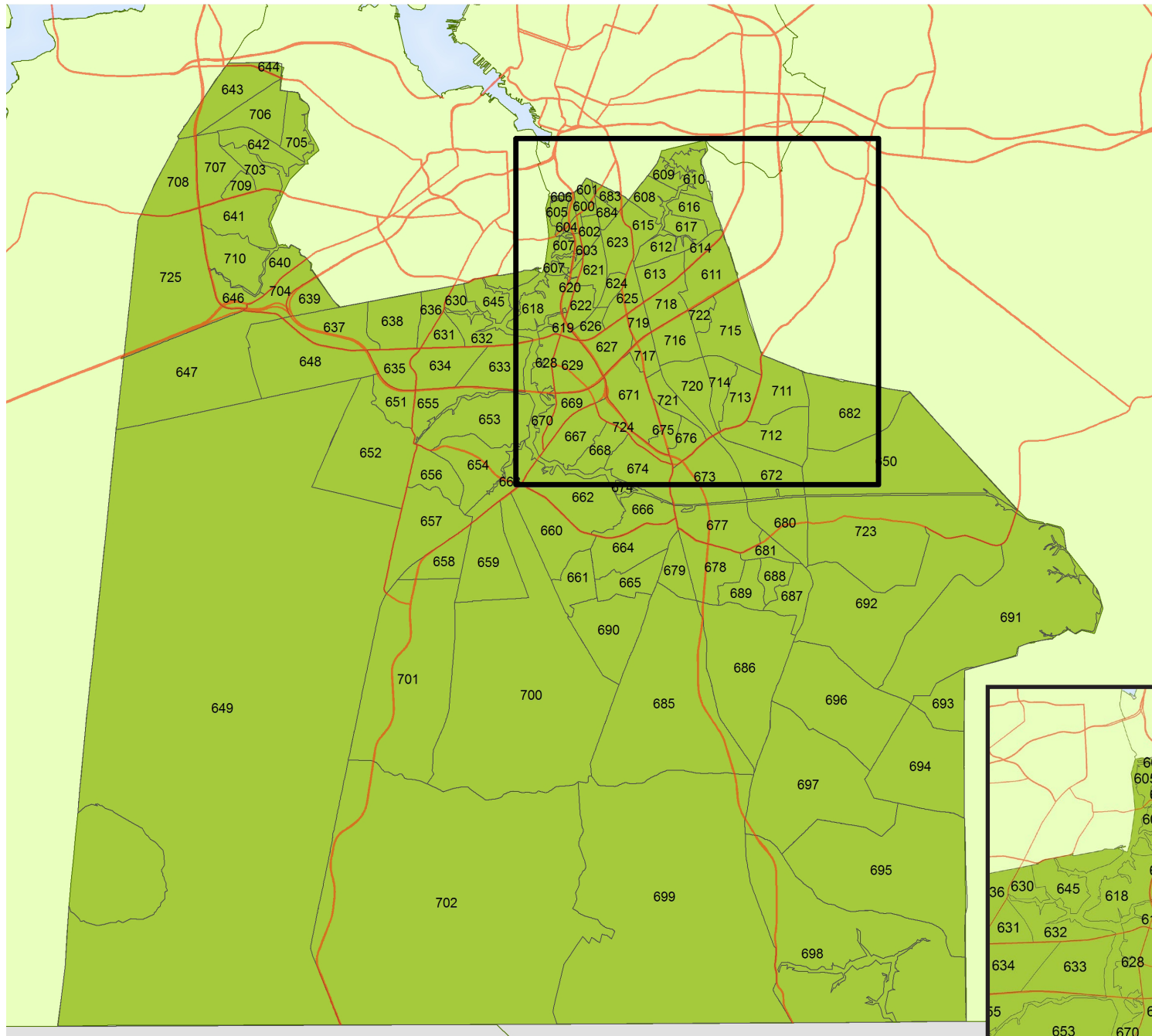
*Note: ¹Regional Modeling Area: 15 localities (including all of the City of Franklin and the Counties of Gloucester and Southampton). Surry County is not included in the Hampton Roads Modeling Area.

The data in the table above reflects the data used in the validation of the region's travel demand forecasting model.

Workers are defined as workers-at-residence, whereas employment is defined as jobsite employment.

2015 and 2045 Socioeconomic Data by Transportation Analysis Zone

Chesapeake



Chesapeake: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
600	1	1,230	392	546	470	N/P	N/P	N/P	N/P	N/P	2,406	800	1,075	843	1,635	277	389	698	271	1,176	N/P
601	1	0	0	0	0	744	115	174	328	127	238	98	212	109	1,063	73	386	524	80	238	319
602	1	2,322	859	1,458	1,065	167	45	36	11	75	2,528	976	1,600	1,064	327	47	58	84	138	206	160
603	1	365	123	200	164	21	3	3	11	4	415	146	229	172	41	25	6	6	4	50	20
604	1	523	178	254	229	327	86	71	31	139	549	195	268	221	245	25	77	52	91	26	-82
605	1	0	0	0	0	186	17	56	76	37	0	0	0	0	327	0	115	129	83	0	141
606	1	495	161	245	150	202	19	36	116	31	575	195	287	160	164	7	106	19	32	80	-38
607	1	1	1	1	1	594	9	383	145	57	0	0	0	0	490	0	132	316	42	-1	-104
608	2	4,374	1,552	2,541	1,953	171	27	91	19	34	4,746	1,757	2,777	1,945	204	11	88	46	59	372	33
609	2	737	266	483	365	97	14	33	31	19	648	244	428	295	81	0	22	9	50	-89	-16
610	2	1,607	631	1,520	624	477	141	170	58	108	1,667	683	1,588	594	1,145	11	710	139	285	60	668
611	2	2,747	897	1,527	1,275	8,072	1,450	3,544	1,846	1,232	2,865	976	1,603	1,220	10,219	1,577	4,552	2,350	1,740	118	2,147
612	2	2,524	989	1,838	1,181	220	22	63	10	125	2,314	946	1,697	994	90	16	74	0	0	-210	-130
613	2	2,414	900	1,954	1,215	1,035	233	237	124	441	2,360	918	1,924	1,090	899	282	190	20	407	-54	-136
614	2	1,453	551	1,481	738	464	222	155	46	41	1,481	586	1,520	690	858	389	239	120	110	28	394
615	1	4,489	1,655	3,557	1,605	392	61	121	81	129	5,075	1,952	4,049	1,665	654	22	271	155	206	586	262
616	2	3563	1306	2669	1462	931	262	274	177	218	2,934	1,122	2,213	1,105	981	182	338	147	314	-629	50
617	2	2376	871	1779	975	103	30	40	0	33	2,934	1,122	2,212	1,105	981	183	337	148	313	558	878
618	1	109	40	101	30	891	250	132	362	147	53	20	49	13	1,390	71	202	730	387	-56	499
619	1	12	4	8	4	209	31	48	78	52	615	214	413	188	204	17	128	46	13	603	-5
620	1	1,392	471	809	531	168	79	38	27	24	1,399	494	820	490	204	140	27	29	8	7	36
621	1	2,379	881	2,334	1,049	483	41	113	56	273	2,527	976	2,496	1,022	449	83	75	55	236	148	-34
622	1	1,904	684	1,390	901	364	100	63	168	33	1,822	683	1,340	792	377	67	60	159	91	-82	13
623	1	2,298	750	1,400	738	682	189	152	115	226	2,006	683	1,231	591	777	50	212	201	314	-292	95
624	1	201	66	163	68	680	128	114	326	112	286	98	234	89	695	92	122	309	172	85	15
625	1	3,160	1,503	3,897	1,015	686	254	175	135	122	3,541	1,757	4,398	1,044	1,063	411	333	115	204	381	377
626	1	2,145	793	2,256	807	415	109	148	13	145	2,152	830	2,279	743	245	4	77	52	112	7	-170
627	4	2,855	1,153	2,481	1,604	1,146	321	283	368	174	3,012	1,269	2,636	1,552	1,635	373	497	414	351	157	489
628	5	0	0	0	0	931	36	182	640	73	0	0	0	0	654	42	131	327	154	0	-277
629	5	2,955	939	1,956	996	768	87	239	129	313	3,532	1,171	2,354	1,092	1,471	34	439	643	355	577	703
630	7	716	284	655	285	83	27	24	13	19	942	390	868	344	164	87	42	16	19	226	81
631	7	2,913	961	1,575	1,002	789	230	206	141	212	2,856	983	1,555	902	661	190	227	73	171	-57	-128
632	7	1,232	442	928	534	381	52	61	241	27	1,304	488	989	519	449	6	65	283	95	72	68
633	7	1,712	527	1,496	751	170	21	28	97	24	1,519	488	1,337	611	204	0	38	131	35	-193	34
634	7	3,481	1,254	2,907	1,666	1,464	406	273	508	277	3,895	1,464	3,276	1,711	1,226	236	353	431	206	414	-238
635	7	216	73	258	91	573	87	219	167	100	405	143	487	157	736	177	201	210	148	189	163
636	8	2,364	864	1,292	1,037	374	148	122	40	64	2,722	1,038	1,498	1,096	490	0	214	66	210	358	116
637	8	23	8	12	11	4,363	877	682	2,099	705	135	49	71	59	4,088	214	763	2,258	853	112	-275
638	8	4,716	1,483	3,717	2,330	1,743	431	393	656	263	4,761	1,562	3,779	2,158	1,103	171	232	455	245	45	-640
639	8	424	154	423	246	N/P	N/P	N/P	N/P	N/P	697	264	700	371	245	0	125	0	120	273	N/P
640	9	2,353	707	1,383	908	190	27	48	19	96	3,113	976	1,843	1,102	123	5	27	9	82	760	-67
641	9	3,286	1,160	3,029	1,721	1,376	779	340	50	207	3,581	1,319	3,325	1,721	1,226	882	190	30	124	295	-150
642	9	1,884	634	1,675	863	80	16	25	16	23	2,501	878	2,240	1,051	81	18	37	9	17	617	1
643	9	6,698	2,379	4,258	3,156	1,248	533	345	140	230	6,727	2,493	4,307	2,909	1,552	637	531	66	318	29	304
644	9	269	127	246	109	1,935	861	676	121	277	378	186	348	141	2,125	1,004	728	96	297	109	190
645	7	310	124	364	136	N/P	N/P	N/P	N/P	N/P	153	64	181	62	950	351	308	171	120	-157	N/P
646	9	191	70	209	70	N/P	N/P	N/P	N/P	N/P	390	149	430	131	270	0	52	32	186	199	N/P
647	10	454	174	461	183	N/P	N/P	N/P	N/P	N/P	835	334	854	309	327	0	218	86	23	381	N/P
648	10	683	242	537	282	184	75	29	61	19	934	345	739	354	368	13	40	300	15	251	184
649	10	153	54	159	72	N/P	N/P	N/P	N/P	N/P	271	100	284	117	0	0	0	0	0	118	N/P
650	3	117	42	76	53	N/P	N/P	N/P	N/P	N/P	1,688	632	1,104	702	81	26	14	13	28	1,571	N/P
651	7	1,806	574	1,776	845	427	24	122	27	254	2,168	719	2,148	931	421	0	117	46	258	362	-6
652	10	4,533	1,437	3,759	2,036	364	71	70	182	41	5,902	1,952	4,929	2,433	490	144	173	121	52	1,369	126
653	10	1891	559	1670	941	122	80	20	10	12	4,066	1,254	3,616	1,857	327	150	52	10	115	2,175	205
654	10	2836	838	2504	1411	183	39	54	10	80	4,068	1,254	3,617	1,857	327	150	50	11	116	1,232	144
655	7	1,505	531	1,472	821	374	64	88	81	141	2,192	807	2,159	1,098	409	52	96	65	196	687	35
656	10	2283	655	1636	977	307	80	100	20	107	3,261	976	2,353	1,281	490	320	48	21	101	978	183
657	10	2283	655	1636	977	307	69	61	10	167	3,261	976	2,353	1,281	490	320	48	21	101	978	183
658	10	241	78	269	108	N/P	N/P	N/P	N/P	N/P	1,155	390	1,298	475	490	0	121	35	334	914	N/P
659	10	210	75	219	105	325	43	61	62	159	2,619	976	2,751	1,201	2,044	68	1,214	346	416	2,409	1,719
660	6	4,125	1,492	3,313	2,164	1,216	375	360	107	374	4,907	1,852	3,969	2,362	1,635	745	417	63	410	782	419
661	6	2,238	708	2,153	1,256	61	8	22	15	16	2,660	878	2,577	1,370	62	3	22	32	5	422	1
662	6	3,720	1,175	2,637	1,680	870	308	209	154	199	4,442	1,464	3,172	1,841	1,226	272	272	256	426	722	356
663	10	889	283	698	362	44	14	14	8	8	1,469	488	1,162	549	327	68	147	51	61	580	283

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

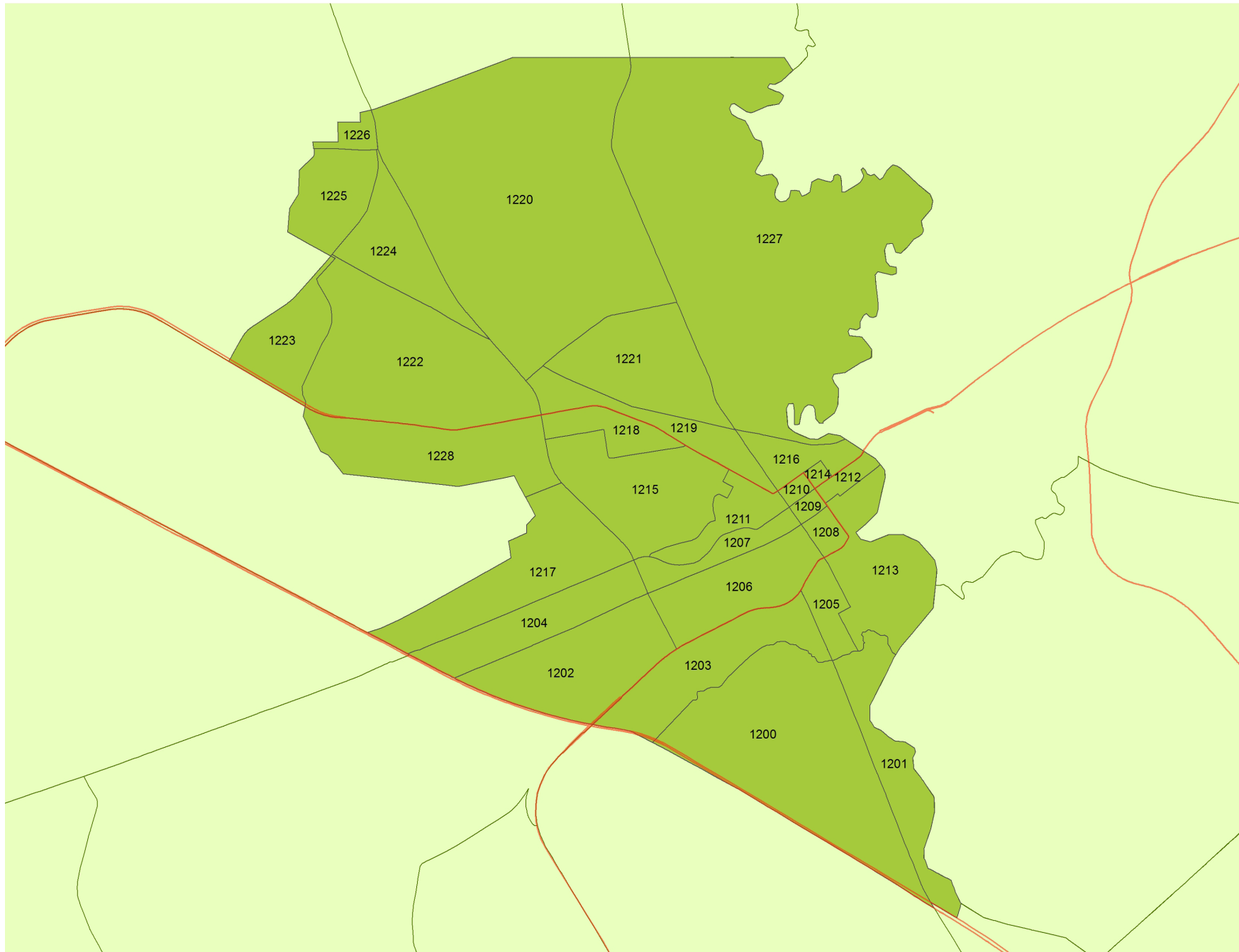
TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Chesapeake: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
664	6	5,803	1,957	4,304	2,942	790	200	333	181	76	4,161	1,464	3,108	1,936	409	45	226	43	95	-1,642	-381
665	6	3,868	1,304	2,869	1,961	197	51	46	0	100	4,163	1,464	3,109	1,937	409	44	225	44	96	295	212
666	6	2,040	343	573	498	10,002	548	4,809	1,027	3,618	2,224	390	629	498	4,497	59	2,997	0	1,441	184	-5,505
667	5	2507	981	1737	1247	188	50	42	72	24	2,989	1,220	2,085	1,364	239	90	85	15	49	482	51
668	5	3065	1200	2202	1525	63	6	39	0	18	2,987	1,220	2,161	1,363	239	90	84	16	49	-78	176
669	5	1,374	484	670	359	187	16	43	64	64	2,656	976	1,304	637	818	296	129	30	363	1,282	631
670	5	0	0	0	0	214	11	24	154	25	709	293	635	326	409	0	42	288	79	709	195
671	4	2,590	1,032	1,733	1,212	7,828	1,408	3,795	1,222	1,403	3,225	1,341	2,174	1,385	5,723	564	2,726	740	1,693	635	-2,105
672	3	1,463	459	1,541	673	255	46	33	154	22	2,554	836	2,710	1,078	409	17	192	172	28	1,091	154
673	3	423	142	251	198	1,061	234	336	212	279	1,950	683	1,165	837	2,044	241	1,116	364	323	1,527	983
674	5	2,192	1,009	2,490	1,066	1,240	218	398	208	416	4,065	1,952	4,650	1,814	1,635	271	692	110	562	1,873	395
675	4	2,141	905	1,616	1,137	4,704	1,193	2,100	445	966	1,991	878	1,514	970	4,088	926	1,567	482	1,113	-150	-616
676	3	2,073	698	1,483	1,026	371	37	156	15	163	2,237	786	1,612	1,016	417	25	197	13	182	164	46
677	6	2,097	723	2,336	1,080	918	458	268	74	118	2,577	927	2,891	1,218	899	500	258	54	87	480	-19
678	6	3,162	1,107	2,717	1,514	1,295	497	363	176	259	3,641	1,330	3,151	1,600	1,390	382	474	101	433	479	95
679	6	3,471	1,219	2,431	1,699	736	173	328	99	136	3,996	1,464	2,819	1,794	695	166	222	40	267	525	-41
680	6	2063	642	1884	1159	727	365	152	46	164	3,757	1,220	3,456	1,937	368	167	90	19	92	1,694	-359
681	6	797	257	724	464	72	0	62	0	10	3,626	1,220	3,318	1,938	368	166	89	20	93	2,829	296
682	3	214	68	102	109	N/P	N/P	N/P	N/P	N/P	6,772	2,245	3,251	3,165	327	0	102	25	200	6,558	N/P
683	1	1,169	406	611	339	264	92	41	80	51	894	324	471	238	284	92	102	51	39	-275	20
684	1	1,260	419	781	438	348	57	79	19	193	1,251	434	781	399	389	21	104	36	228	-9	41
685	6	2,833	899	3,296	1,500	4,447	1,079	1,749	690	929	6,276	2,078	7,355	3,049	3,265	1,372	1,307	241	345	3,443	-1,182
686	6	1855	560	1812	1138	987	187	252	93	455	3,099	976	3,048	1,744	409	91	98	31	189	1,244	-578
687	6	3244	933	3020	1950	110	12	20	20	58	3,253	976	3,049	1,794	409	91	98	32	188	9	299
688	6	3832	1209	3825	2329	0	0	0	0	0	2,965	976	2,981	1,653	409	92	99	30	188	-867	409
689	6	3844	1200	3753	2343	0	0	0	0	0	2,996	976	2,946	1,676	409	91	98	32	188	-848	409
690	6	1633	449	1110	756	33	6	9	13	5	9,108	2,613	6,240	3,870	164	0	29	94	41	7,475	131
691	12	1045	361	1225	405	63	11	22	25	5	1,160	418	1,369	412	102	0	23	68	11	115	39
692	12	421	143	409	170	210	90	29	36	55	550	195	539	204	245	109	59	54	23	129	35
693	12	98	31	95	39	N/P	N/P	N/P	N/P	N/P	125	41	122	46	7	0	3	2	2	27	N/P
694	12	366	115	435	133	28	2	5	19	2	580	190	694	193	41	6	3	32	0	214	13
695	12	5390	183	580	858	623	74	240	121	188	8,808	312	955	1,287	609	5	259	158	187	3,418	-14
696	12	418	138	489	170	31	5	5	13	8	659	227	776	246	62	2	4	52	4	241	31
697	12	539	173	549	214	117	13	29	58	17	1,119	375	1,149	408	683	94	304	67	218	580	566
698	12	489	173	552	206	105	11	20	56	18	902	333	1,026	349	818	167	566	53	32	413	713
699	12	3,428	953	3,060	1,559	1,885	602	424	527	332	5,047	1,464	4,538	2,106	1,741	129	611	591	410	1,619	-144
700	12	1,169	381	1,206	511	1,072	528	242	193	109	1,791	609	1,861	719	1,226	83	623	420	100	622	154
701	12	569	194	720	248	67	6	16	29	16	880	313	1,122	352	409	7	144	220	38	311	342
702	12	876	294	978	311	43	4	7	20	12	1,673	586	1,881	545	299	7	201	82	9	797	256
703	9	1,903	779	1,452	1,199	668	256	242	60	110	2,645	1,130	2,033	1,529	2,044	1,784	169	45	46	742	1,376
704	8	2,639	959	1,877	1,115	49	17	13	8	11	2,585	980	1,851	1,002	245	46	124	34	41	-54	196
705	9	2,143	773	1,941	1,241	93	15	41	14	23	2,594	976	2,366	1,378	55	9	29	9	8	451	-38
706	9	4,624	1,647	3,477	2,345	1,192	147	440	36	569	5,264	1,956	3,986	2,449	833	108	295	66	364	640	-359
707	9	2,275	798	2,159	1,001	894	515	243	51	85	4,001	1,464	3,824	1,615	818	423	232	75	88	1,726	-76
708	9	103	41	96	64	506	170	138	84	114	1,881	781	1,766	1,072	1,226	508	430	146	142	1,778	720
709	9	0	0	0	0	3,275	1,442	1,282	193	358	0	0	0	0	3,270	2,644	376	102	148	0	-5
710	9	3,110	989	3,311	1,770	140	16	38	54	32	4,440	1,473	4,760	2,318	166	0	73	72	21	1,330	26
711	3	2980	1090	2195	1343	702	225	205	100	172	3,453	1,318	2,562	1,428	695	327	169	90	109	473	-7
712	3	1986	727	1463	896	377	213	73	33	58	3,450	1,318	2,560	1,428	695	327	169	91	108	1,464	318
713	3	4,207	1,512	3,130	1,678	369	102	118	57	92	4,166	1,562	3,122	1,524	286	9	150	56	71	-41	-83
714	3	3,246	1,408	2,231	2,075	840	117	410	86	227	3,463	1,567	2,397	2,031	818	77	367	129	245	217	-22
715	3	6,194	2,520	3,558	3,415	1,618	364	836	93	325	7,477	3,174	4,326	3,781	2,861	1,823	673	124	241	1,283	1,243
716	3	0	0	0	0	12,850	4,984	5,186	1,239	1,441	2,481	1,025	2,222	1,141	16,351	6,378	7,156	791	2,026	2,481	3,501
717	3	1,159	554	914	547	2,913	1,205	1,027	254	427	1,574	785	1,250	682	2,044	1,599	244	84	117	415	-869
718	3	3	1	2	1	3,721	1,325	711	977	708	0	0	0	0	3,679	1,058	832	1,355	434	-3	-42
719	3	224	104	157	110	474	331	69	59	15	1,612	781	1,138	726	633	383	100	117	33	1,388	159
720	3	723	297	507	447	6,782	1,220	2,479	2,005	1,078	693	297	489	393	6,540	602	2,112	2,581	1,245	-30	-242
721	3	2,734	1,017	3,995	1,370	1,413	456	414	321	222	3,269	1,269	4,812	1,503	327	164	60	90	13	535	-1,086
722	3	743	428	528	350	1,350	235	860	65	190	649	390	464	281	818	166	228	25	399	-94	-532
723	11	2,790	797	1,837	1,186	590	108	173	167	142	3,278	977	2,174	1,279	625	224	123	163	115	488	35
724	4	2,245	943	1,520	1,154	637	82	144	347	64	2,003	878	1,366	945	490	98	170	112	110	-242	-147
725	9	3,046	951	2,851	1,456	460	128	101	125	106	6,155	2,005	5,802	2,700	818	222	334	121	141	3,109	358
Total		238,283	81,518	187,620	110,653	127,190	32,527	44,082	24,003	26,578	317,206	111,673	252,166	135,259	138,475	36,307	48,438	25,255	28,475	78,923	11,285

*Note: TAZs were renumber

Franklin



Franklin: 2015 and 2045 TAZ Data

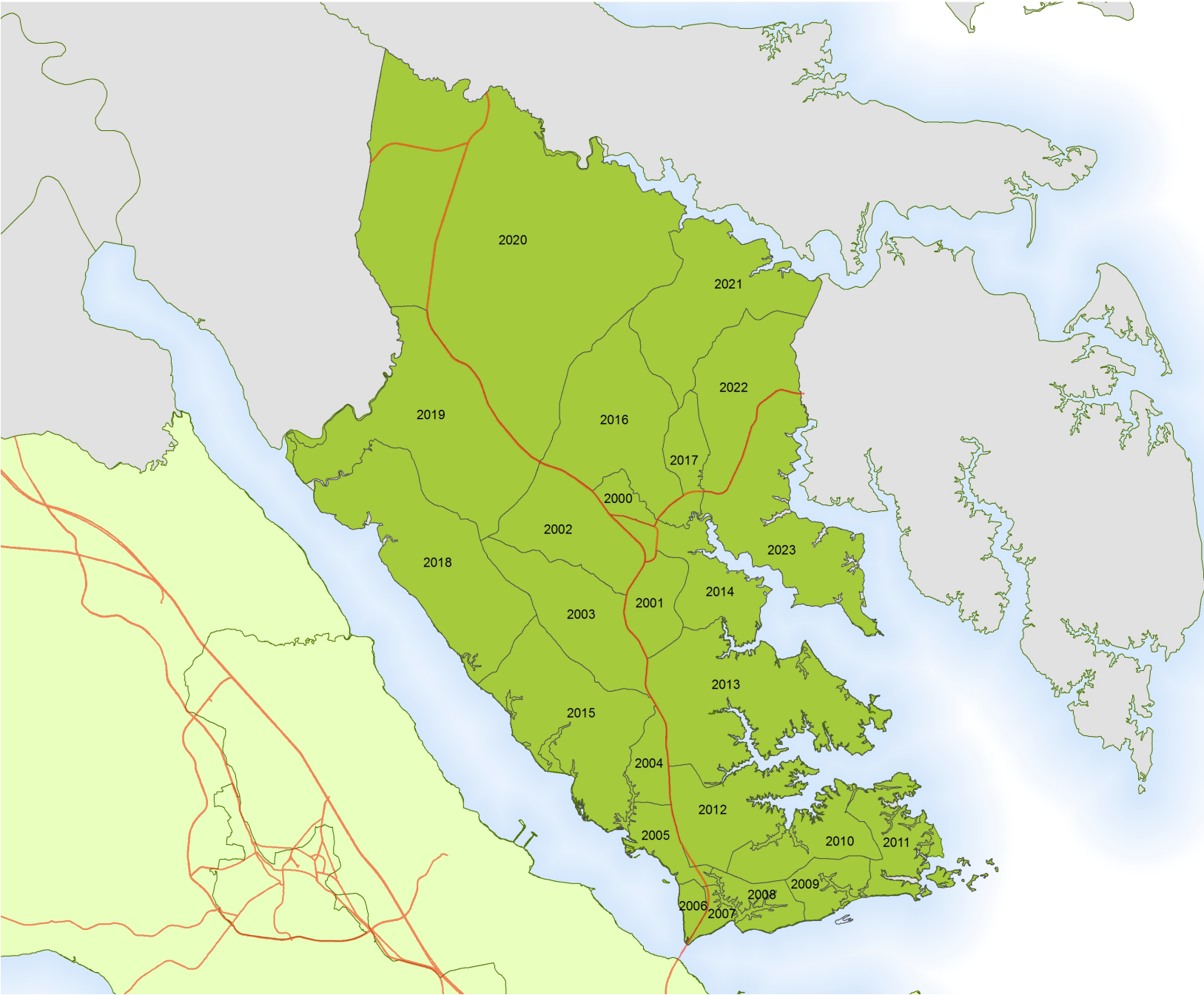
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1200	180	648	238	358	254	470	81	171	90	128	665	245	363	239	512	91	183	101	137	17	42
1201	180	1	1	2	0	102	9	36	18	39	1	1	2	0	111	10	38	21	42	0	9
1202	180	399	170	372	156	N/P	N/P	N/P	N/P	N/P	410	175	377	147	60	33	12	6	9	11	N/P
1203	180	854	382	574	334	40	21	11	2	6	876	393	581	315	44	23	12	3	6	22	4
1204	181	0	0	0	0	642	427	127	25	63	0	0	0	700	475	133	26	66	0	58	
1205	180	377	131	208	148	N/P	N/P	N/P	N/P	N/P	388	135	211	140	14	8	3	1	2	11	N/P
1206	180	1,205	478	1,046	471	73	27	22	6	18	1,235	492	1,060	444	80	30	23	8	19	30	7
1207	181	228	85	210	89	71	47	12	4	8	232	87	212	83	77	52	12	4	9	4	6
1208	180	78	25	40	30	85	24	27	13	21	81	26	41	28	93	27	29	14	23	3	8
1209	181	15	5	9	6	361	155	108	30	68	15	5	9	5	394	173	115	33	73	0	33
1210	181	2	1	3	1	246	32	115	31	68	2	1	3	1	268	36	124	34	74	0	22
1211	181	255	120	127	100	227	34	99	13	81	260	123	128	94	247	38	107	14	88	5	20
1212	181	0	0	0	0	202	64	74	23	41	0	0	0	0	220	71	79	26	44	0	18
1213	180	203	82	131	79	N/P	N/P	N/P	N/P	N/P	207	84	132	74	29	9	6	7	7	4	N/P
1214	181	0	0	0	0	159	37	67	20	35	0	0	0	0	173	41	72	22	38	0	14
1215	181	513	199	209	201	211	0	139	16	56	526	205	212	189	230	0	149	20	61	13	19
1216	181	74	35	90	29	514	141	172	90	111	76	36	91	27	560	157	184	100	119	2	46
1217	181	0	0	0	0	1,227	616	338	78	195	0	0	0	0	1,339	688	361	84	206	0	112
1218	181	143	56	58	56	N/P	N/P	N/P	N/P	N/P	147	58	59	53	4	2	1	0	1	4	N/P
1219	181	460	183	269	181	25	4	9	2	10	471	188	272	170	27	4	10	2	11	11	2
1220	181	1,155	465	1,131	452	734	255	244	73	162	1,183	478	1,143	427	800	284	261	81	174	28	66
1221	181	876	372	547	343	230	66	73	23	68	901	384	556	324	251	74	78	26	73	25	21
1222	181	278	111	304	109	N/P	N/P	N/P	N/P	N/P	285	114	307	102	40	13	11	8	8	7	N/P
1223	181	8	2	5	3	N/P	N/P	N/P	N/P	N/P	8	2	5	3	0	0	0	0	0	0	N/P
1224	181	17	7	17	7	N/P	N/P	N/P	N/P	N/P	17	7	17	6	21	2	8	3	8	0	N/P
1225	181	277	120	275	109	17	11	3	1	2	283	123	277	102	19	12	3	1	3	6	2
1226	181	52	24	51	20	N/P	N/P	N/P	N/P	N/P	54	25	52	19	10	4	4	1	1	2	N/P
1227	181	146	63	175	57	N/P	N/P	N/P	N/P	N/P	150	65	178	54	68	20	21	7	20	4	N/P
1228	181	271	98	223	106	N/P	N/P	N/P	N/P	N/P	278	101	226	100	1	0	0	0	1	7	N/P
Total		8,535	3,453	6,434	3,341	5,863	2,134	1,909	588	1,232	8,751	3,553	6,514	3,146	6,392	2,377	2,039	653	1,323	216	529

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Gloucester



Gloucester: 2015 and 2045 TAZ Data

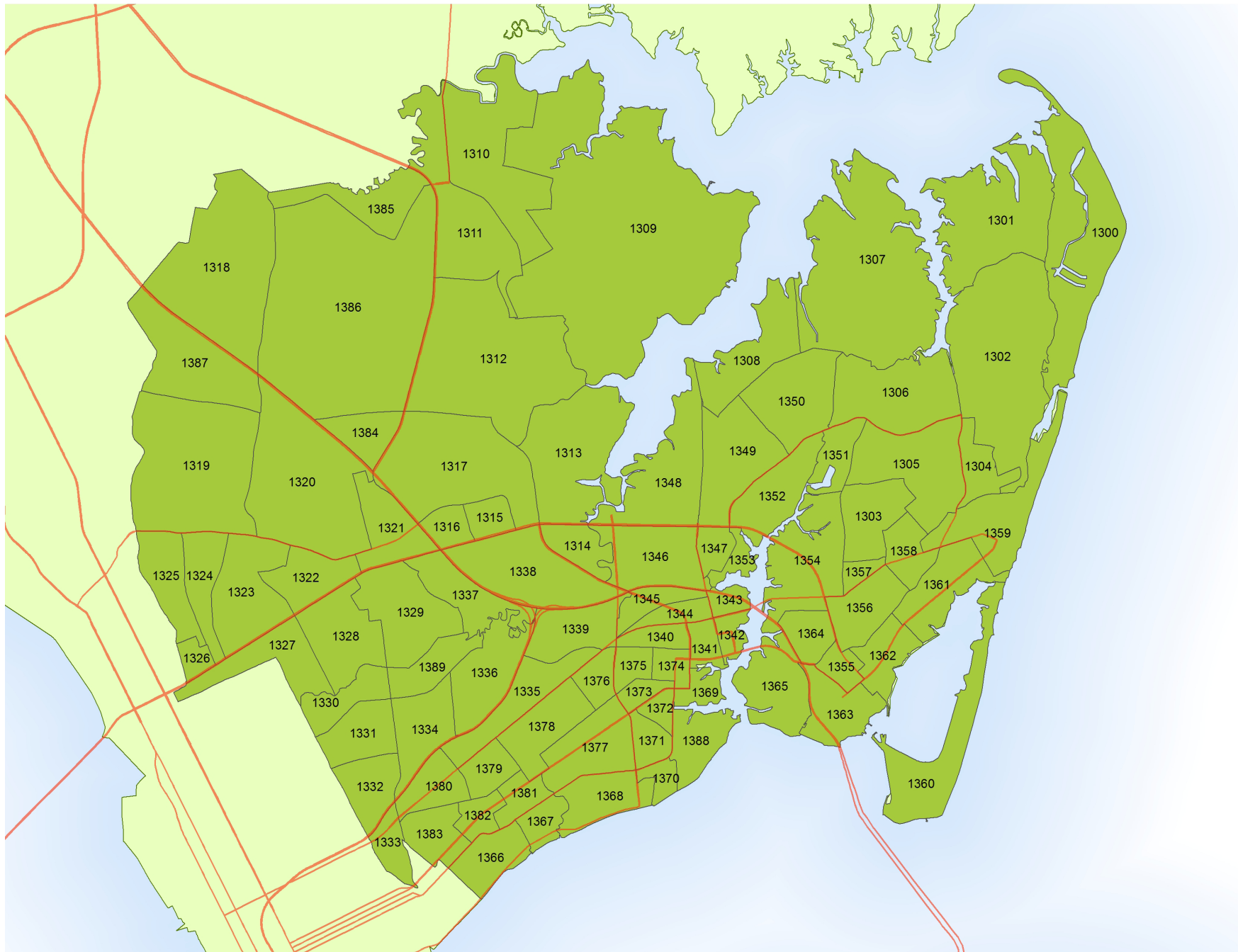
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
2000	170	1089	404	1020	503	2735	800	1122	423	390	1,144	428	1070	526	3,075	875	1,353	427	420	55	340
2001	170	875	317	798	392	1340	286	410	373	271	919	336	837	410	1,560	402	484	384	290	44	220
2002	170	2351	852	2138	1054	1336	429	302	276	329	2,358	862	2,140	1052	1,554	568	345	283	358	7	218
2003	170	1331	482	1212	597	561	128	132	167	134	4,160	1,520	3,781	1,859	629	153	149	178	149	2,829	68
2004	170	1681	609	1530	753	306	74	65	75	92	1,716	627	1,559	767	423	105	89	84	145	35	117
2005	170	3461	1582	4649	1934	1531	457	421	195	458	3,891	1,794	5,216	2,165	1,651	497	460	204	490	430	120
2006	170	2003	726	1822	898	220	113	36	21	50	2,035	744	1,847	908	260	133	43	26	58	32	40
2007	170	1290	467	1175	578	1116	311	320	196	289	1,322	483	1,202	590	1,233	350	363	202	318	32	117
2008	170	783	284	715	351	181	74	43	35	29	848	310	772	378	199	82	47	38	32	65	18
2009	170	697	252	637	312	211	105	80	6	20	719	262	655	320	229	112	85	7	25	22	18
2010	170	977	354	891	438	211	105	80	6	20	996	364	906	444	229	112	85	7	25	19	18
2011	170	621	225	568	278	N/P	N/P	N/P	N/P	N/P	643	235	587	286	50	15	4	13	18	22	N/P
2012	170	668	242	618	299	941	290	331	168	152	690	252	637	307	1,041	328	371	175	167	22	100
2013	170	953	345	869	427	307	114	149	19	25	972	355	885	433	325	119	159	20	27	19	18
2014	170	1075	380	952	467	1142	218	412	285	227	1,509	436	1,334	653	1,356	311	471	296	278	434	214
2015	170	2657	962	2415	1191	97	17	15	41	24	2,662	972	2,414	1,188	165	41	24	49	51	5	68
2016	171	1913	693	1740	857	438	217	132	26	63	1,910	698	1,734	852	456	225	137	28	66	-3	18
2017	171	1,349	433	1,322	704	77	8	12	32	25	1,198	388	1,172	623	95	12	16	38	29	-151	18
2018	171	2787	1209	2533	1458	222	25	90	36	71	2,775	1,214	2,516	1,445	240	27	97	39	77	-12	18
2019	171	2186	1106	2389	1432	222	25	90	36	71	2,216	1,131	2,417	1,445	240	27	97	39	77	30	18
2020	171	2719	985	2472	1219	454	90	103	144	117	2,778	1,015	2,520	1,240	547	140	125	157	125	59	93
2021	171	1068	387	1080	479	82	23	14	25	20	1,250	457	1,261	559	100	29	17	31	23	182	18
2022	171	1561	565	1421	700	82	24	13	25	20	1,561	570	1,419	697	100	30	16	31	23	0	18
2023	171	977	419	1,012	508	116	42	34	22	18	980	424	1,013	507	149	64	36	30	20	3	33
Total		37,072	14,280	35,978	17,829	13,960	3,985	4,408	2,642	2,925	41,252	15,877	39,894	19,654	15,906	4,757	5,073	2,786	3,291	4,180	1,946

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Hampton



Hampton: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1300	125	356	146	230	114	15	5	4	2	4	496	203	322	158	17	0	3	14	0	140	2
1301	125	508	191	348	148	78	18	25	9	26	560	210	386	162	37	5	11	12	9	52	-41
1302	125	4,063	1,517	3,691	1,897	187	35	50	38	64	3,688	1,375	3,369	1,712	144	20	69	31	24	-375	-43
1303	125	3,106	1,033	2,218	1,322	89	9	20	8	52	2,716	902	1,950	1,149	173	68	32	3	70	-390	84
1304	125	941	355	813	461	N/P	N/P	N/P	N/P	N/P	786	296	683	382	19	0	5	4	10	-155	N/P
1305	125	5,160	1,664	3,039	2,324	554	156	124	29	245	4,307	1,387	2,550	1,892	487	76	107	17	287	-853	-67
1306	125	3,662	1,339	3,347	1,937	144	15	54	22	53	2,960	1,081	2,720	1,557	97	0	20	13	64	-702	-47
1307	125	2,284	805	2,219	1,109	47	11	10	12	14	1,921	676	1,876	927	49	7	11	20	11	-363	2
1308	125	1,246	482	993	459	176	34	36	13	93	1,235	477	990	452	183	30	54	19	80	-11	7
1309	124	1,359	175	792	874	12,628	1,456	5,461	1,683	4,028	1,563	201	916	1,000	13,027	721	5,832	2,191	4,283	204	399
1310	124	0	0	0	0	4,440	1,639	444	615	1,742	9,064	3,797	7,094	4,473	3,208	14	1,376	603	1,215	9,064	-1,232
1311	124	828	380	746	478	3,138	571	952	1,008	607	685	314	620	393	3,467	316	1,141	1,262	748	-143	329
1312	124	3,273	1,221	2,434	1,741	922	503	233	44	142	3,530	1,315	2,639	1,867	1,007	142	372	132	361	257	85
1313	123	2,953	1,166	2,245	1,198	296	45	97	18	136	2,853	1,125	2,181	1,151	304	76	90	14	124	-100	8
1314	123	611	270	251	101	2,106	938	974	161	33	675	298	279	111	38	31	3	2	2	64	-2,068
1315	123	0	0	0	0	828	346	314	51	117	0	0	0	0	1,113	764	217	27	105	0	285
1316	123	13	8	16	10	1,519	562	780	54	123	0	0	0	0	498	409	89	0	0	-13	-1,021
1317	123	7,298	3,657	3,785	3,166	7,961	1,870	3,048	764	2,279	7,906	3,956	4,122	3,410	8,165	2,673	3,025	961	1,506	608	204
1318	124	3,015	1,051	2,638	1,437	249	81	41	65	62	3,022	1,052	2,659	1,432	407	24	166	105	112	7	158
1319	120	5,411	1,944	4,812	2,833	889	246	244	68	331	5,942	2,132	5,313	3,094	948	188	316	67	377	531	59
1320	120	6,180	2,282	5,085	3,237	1,119	379	347	70	323	6,744	2,487	5,580	3,513	1,142	544	282	41	275	564	23
1321	120	1,698	684	2,674	907	890	391	246	97	156	1,717	691	2,719	912	1,146	758	227	50	111	19	256
1322	120	2,240	926	1,639	957	701	261	267	72	101	2,549	1,052	1,875	1,082	819	521	176	17	105	309	118
1323	120	2,121	840	1,899	1,043	667	354	173	35	105	2,518	996	2,267	1,232	792	561	145	15	71	397	125
1324	120	1,392	516	1,448	691	193	65	47	11	70	1,040	385	1,087	514	221	72	53	6	90	-352	28
1325	120	2,619	1,084	1,349	1,135	45	12	16	10	7	2,826	1,168	1,464	1,218	51	13	14	16	8	207	6
1326	120	520	214	400	305	N/P	N/P	N/P	N/P	N/P	29	12	22	17	602	130	411	14	47	-491	N/P
1327	121	2,036	861	1,518	798	623	313	197	34	79	1,747	738	1,310	681	609	429	95	22	63	-289	-14
1328	121	2,592	984	2,194	1,205	290	102	86	19	83	2,205	836	1,877	1,020	176	48	41	18	69	-387	-114
1329	121	2,120	790	1,660	833	524	285	130	22	87	1,749	651	1,377	683	198	111	35	4	48	-371	-326
1330	121	1,537	647	1,064	853	149	27	43	8	71	1,306	549	909	721	168	72	34	4	58	-231	19
1331	121	647	282	812	323	1,126	337	269	277	243	455	198	574	226	1,205	101	325	338	441	-192	79
1332	121	0	0	0	0	752	94	93	467	98	0	0	0	0	1,027	447	85	404	91	0	275
1333	121	108	47	98	33	129	48	16	59	6	71	31	65	22	144	41	20	73	10	-37	15
1334	121	104	35	83	36	2,481	183	374	1,484	440	146	49	117	50	3,087	895	464	1,287	441	42	606
1335	122	661	202	370	284	1,135	209	282	397	247	417	127	235	178	1,598	304	480	483	331	-244	463
1336	121	1,852	852	1,522	876	N/P	N/P	N/P	N/P	N/P	1,358	624	1,123	639	214	0	54	3	157	-494	N/P
1337	121	164	59	123	108	951	624	186	46	95	197	71	149	129	840	816	14	2	8	33	-111
1338	123	677	314	378	442	2,437	652	1,327	127	331	736	341	414	478	2,796	1,996	567	40	193	59	359
1339	122	2,413	900	1,142	780	N/P	N/P	N/P	N/P	N/P	1,979	737	941	636	498	144	188	53	113	-434	N/P
1340	122	717	270	392	282	112	43	30	8	31	774	291	425	303	209	98	55	20	36	57	97
1341	122	1,296	437	309	294	2,877	389	1,181	424	883	1,340	451	321	302	2,104	135	1,105	242	622	44	-773
1342	122	439	212	267	151	1,174	256	481	146	291	492	237	300	168	2,898	296	1,223	495	884	53	1,724
1343	122	333	136	108	108	N/P	N/P	N/P	N/P	N/P	483	197	157	155	19	4	7	4	4	150	N/P
1344	122	65	22	129	54	466	56	143	198	69	121	41	242	48	574	80	242	138	114	56	108
1345	122	238	74	89	63	363	89	113	76	85	248	77	94	66	168	20	46	69	33	10	-195
1346	125	1,459	613	892	594	2,976	443	1,146	547	840	1,185	497	728	480	560	132	154	149	125	-274	-2,416
1347	125	1,762	669	2,169	813	321	69	119	64	69	1,169	443	1,446	536	449	23	277	75	74	-593	128
1348	125	3,448	1,335	2,019	1,557	600	252	180	45	123	2,987	1,155	1,759	1,341	648	394	166	15	73	-461	48
1349	125	3,764	1,396	2,832	1,949	219	42	43	20	114	2,924	1,083	2,212	1,505	313	185	38	9	81	-840	94
1350	125	3,223	1,208	2,477	1,559	640	344	190	36	70	2,832	1,060	2,189	1,362	2,298	337	773	216	972	-391	1,658
1351	125	374	145	357	205	N/P	N/P	N/P	N/P	N/P	615	238	590	335	190	0	91	30	69	241	N/P
1352	125	1,497	566	1,285	872	212	30	50	12	120	1,001	378	864	579	123	103	6	10	4	-496	-89
1353	125	525	267	281	266	N/P	N/P	N/P	N/P	N/P	609	309	327	307	11	0	11	0	0	84	N/P
1354	125	2,512	1,034	1,862	1,138	238	69	69	22	78	2,316	952	1,726	1,043	249	97	104	21	27	-196	11
1355	126	580	196	288	174	220	113	44	25	38	773	261	387	231	159	24	56	46	33	193	-61
1356	126	1,506	547	1,157	585	391	75	88	12	216	1,447	525	1,118	559	895	77	197	63	558	-59	504
1357	125	456	168	325	258	76	40	14	3	19	378	139	271	212	112	101	5	1	5	-78	36
1358	125	1,553	597	962	772	189	82	52	20	35	1,258	483	783	622	117	94	11	4	8	-295	-72
1359	126	2,518	1,161	1,677	1,365	216	92	62	22	40	2,977	1,371	1,995	1,605	298	148	78	14	58	459	82
1360	126	704	268	301	150	282	29	107	122	24	763	290	328	161	1,436	61	604	295	476	59	1,154
1361	126	2,024	867	1,499	902	98	28	34	13	23	2,165	926	1,612	959	56	2	27	7	20	141	-42
1362	126	1,745	696	1,210	810	171	30	40	10	91	1,866	743	1,301	861	192	117	33	2	40	121	21

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Hampton: 2015 and 2045 TAZ Data

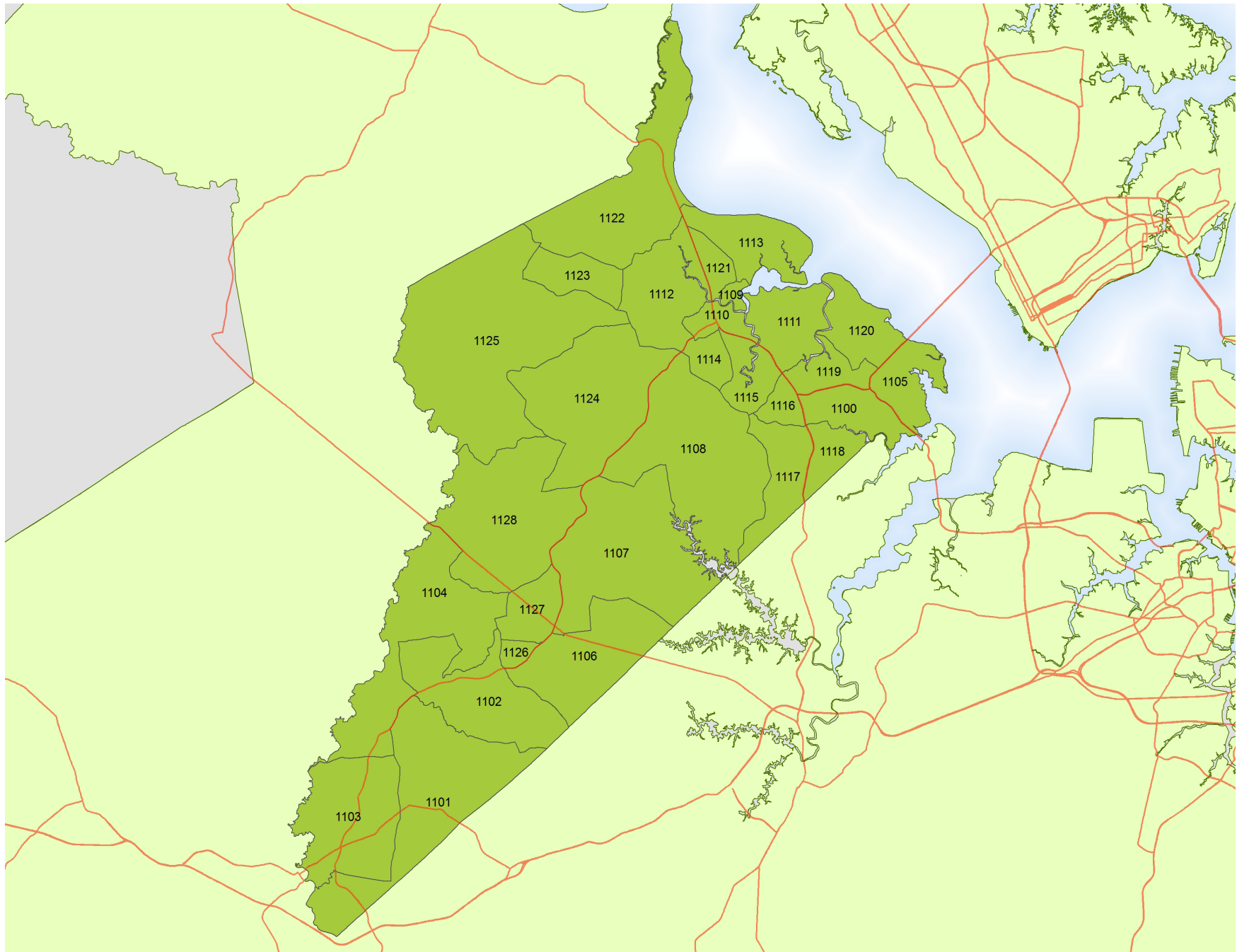
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1363	126	1,337	495	653	561	521	91	215	121	94	1,504	556	738	627	886	178	279	289	140	167	365
1364	126	58	25	31	18	N/P	N/P	N/P	N/P	N/P	32	14	17	10	3	0	0	3	0	-26	N/P
1365	126	2,789	259	404	588	N/P	N/P	N/P	N/P	N/P	3,437	319	501	721	2,391	173	998	230	990	648	N/P
1366	122	1,297	551	1,100	632	61	12	22	19	8	1,120	475	954	543	652	0	196	64	392	-177	591
1367	122	668	280	568	459	18	4	4	4	6	543	227	463	370	24	0	11	5	8	-125	6
1368	122	1,245	532	1,144	747	37	3	8	19	7	996	425	920	594	49	0	16	27	6	-249	12
1369	122	537	248	377	283	146	47	33	20	46	397	183	280	208	462	13	99	310	40	-140	316
1370	122	822	292	417	492	14	8	4	0	2	708	251	360	421	0	0	0	0	0	-114	-14
1371	122	675	330	290	275	164	85	62	4	13	676	330	292	274	204	114	74	3	13	1	40
1372	122	471	159	323	194	54	10	23	6	15	407	137	280	166	37	0	15	10	12	-64	-17
1373	122	320	136	221	164	N/P	N/P	N/P	N/P	N/P	296	126	206	151	17	12	4	0	1	-24	N/P
1374	122	692	258	446	311	185	60	57	21	47	567	211	367	253	156	48	58	23	27	-125	-29
1375	122	828	302	505	365	56	37	14	0	5	749	273	460	329	11	11	0	0	0	-79	-45
1376	122	920	352	703	360	229	80	69	28	52	759	290	583	296	99	57	21	6	15	-161	-130
1377	122	2,510	933	1,954	1,291	850	101	168	277	304	2,085	774	1,632	1,066	927	76	158	483	210	-425	77
1378	122	1,911	744	1,397	814	323	50	115	58	100	1,618	629	1,189	685	243	27	122	29	65	-293	-80
1379	122	898	320	925	320	N/P	N/P	N/P	N/P	N/P	733	261	759	260	153	0	58	57	38	-165	N/P
1380	122	664	245	457	240	388	68	89	197	34	502	185	347	180	985	98	153	506	228	-162	597
1381	122	935	383	520	408	198	62	83	14	39	699	286	391	304	203	78	94	10	21	-236	5
1382	122	993	386	642	431	47	11	12	10	14	791	307	514	342	68	6	24	16	22	-202	21
1383	122	982	366	722	422	56	21	12	12	11	843	314	623	360	74	16	22	25	11	-139	18
1384	124	0	0	0	0	2,094	300	1,082	358	354	0	0	0	1,521	18	1,357	22	124	0	0	-573
1385	124	996	463	1,379	658	36	11	16	4	5	163	76	228	108	41	0	22	19	0	-833	5
1386	124	3,717	1,372	2,416	1,760	2,952	207	1,512	461	772	3,730	1,375	2,438	1,756	3,726	166	1,692	261	1,607	13	774
1387	120	0	0	0	0	N/P	N/P	N/P	N/P	N/P	2	1	2	1	397	217	23	0	157	2	N/P
1388	122	1,149	440	1,074	554	206	58	27	80	41	868	332	816	416	364	165	123	28	48	-281	158
1389	121	706	262	660	304	104	33	24	6	41	561	208	528	240	202	13	42	2	145	-145	98
Total		138,626	52,940	102,290	64,027	75,251	17,472	26,444	11,856	19,479	139,207	53,252	101,837	63,694	78,694	17,581	27,619	12,740	20,754	581	3,443

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Isle of Wight



Isle of Wight: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1100	70	1,672	591	1,344	589	1,286	174	292	562	258	2,406	867	1,936	778	1,443	210	321	632	280	734	157
1101	72	1044	398	1078	544	135	19	19	77	20	1,502	584	1,553	719	151	22	21	86	22	458	16
1102	72	1043	399	1078	544	134	20	19	76	19	1,499	585	1,552	719	150	24	21	85	20	456	16
1103	72	1043	398	1078	544	135	19	20	77	19	1,500	584	1,553	719	151	23	22	86	20	457	16
1104	72	1043	398	1078	544	134	19	19	77	19	1,500	584	1,553	719	150	23	21	86	20	457	16
1105	70	2,604	941	2,276	1,347	329	96	101	44	88	3,745	1,380	3,277	1,779	369	114	111	49	95	1,141	40
1106	72	1636	627	1665	981	734	170	313	95	156	2,355	920	2,398	1296	823	205	343	107	168	719	89
1107	72	1636	627	1665	981	733	170	313	94	156	2,355	920	2,398	1296	822	205	342	106	169	719	89
1108	72	1,439	513	1,308	674	796	96	275	152	273	2,068	752	1,882	890	893	118	304	174	297	629	97
1109	71	282	79	209	112	3,005	799	840	866	500	406	116	301	148	3,372	957	914	967	534	124	367
1110	71	1,859	775	2,585	834	1,123	111	196	623	193	2,674	1,137	3,723	1,102	1,260	135	215	700	210	815	137
1111	71	7,595	2,781	7,354	3,288	1,231	234	285	413	299	10,921	4,077	10,586	4,340	1,381	282	313	463	323	3,326	150
1112	70	964	375	895	429	286	91	74	71	50	1,387	550	1,289	566	321	108	80	79	54	423	35
1113	70	591	237	521	272	1,647	48	635	583	381	851	348	751	359	1,848	66	702	661	419	260	201
1114	70	668	241	588	298	2,140	613	635	793	99	962	354	848	394	2,401	732	688	882	99	294	261
1115	70	376	139	384	145	323	66	74	48	135	541	204	554	192	362	79	81	55	147	165	39
1116	70	611	230	700	274	117	16	34	5	62	878	337	1,007	361	131	20	38	6	67	267	14
1117	70	601	220	573	265	68	10	14	31	13	865	323	826	350	76	12	15	35	14	264	8
1118	70	282	115	300	156	202	68	36	45	53	406	169	433	206	227	82	39	50	56	124	25
1119	70	993	389	747	281	98	25	24	8	41	1,430	571	1,076	371	110	30	26	9	45	437	12
1120	70	2,092	898	1,972	1,516	247	108	78	31	30	3,009	1,317	2,839	2,002	277	129	84	34	30	917	30
1121	70	867	300	652	355	N/P	N/P	N/P	N/P	N/P	1,247	440	939	469	34	1	4	18	11	380	N/P
1122	72	1258	492	1095	474	139	53	30	43	13	1,810	722	1,578	627	156	63	32	48	13	552	17
1123	72	315	123	274	119	N/P	N/P	N/P	N/P	N/P	452	180	394	157	39	0	10	13	16	137	N/P
1124	72	609	238	621	266	N/P	N/P	N/P	N/P	N/P	876	349	894	351	85	20	12	12	41	267	N/P
1125	72	913	356	931	400	113	56	36	12	9	1313	522	1340	529	127	66	38	13	10	400	14
1126	72	1200	445	1029	509	N/P	N/P	N/P	N/P	N/P	1,727	653	1,482	673	169	57	31	14	67	527	N/P
1127	72	601	222	515	254	76	9	12	13	42	866	326	742	336	85	12	13	15	45	265	9
1128	72	601	222	515	254	76	10	34	4	28	866	326	742	336	85	12	37	7	30	265	9
Total		36,438	13,769	35,029	17,249	15,599	3,165	4,458	4,894	3,082	52,417	20,197	50,446	22,784	17,498	3,807	4,878	5,492	3,322	15,979	1,899

*Note: TAZs were renumbered as part of the 2015 model update.

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James City



James City: 2015 and 2045 TAZ Data

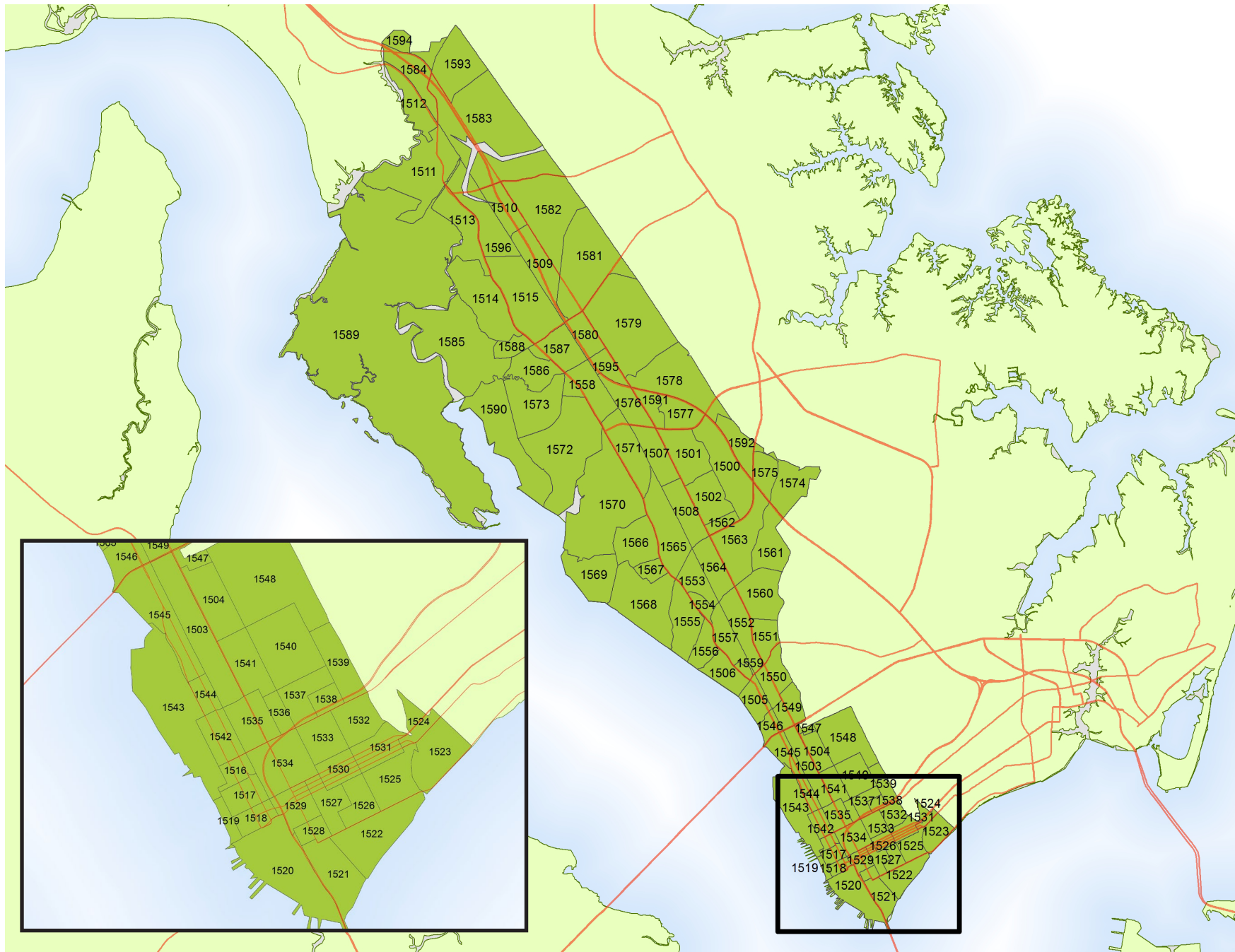
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1800	150	78	25	61	14	1,412	70	212	477	653	180	60	147	31	2,509	100	815	1,064	530	102	1,097
1801	150	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	92	0	31	26	35	0	N/P
1802	150	3,992	1,228	2,532	1,203	1,280	64	304	502	410	4,374	1,400	2,901	1,266	708	50	235	257	166	382	-572
1803	150	295	83	172	91	N/P	N/P	N/P	N/P	N/P	556	163	340	165	171	38	25	31	77	261	N/P
1804	150	37	33	36	31	3924	396	2059	538	931	11	10	11	8	4,074	884	880	809	1,501	-26	150
1805	150	4554	2000	3033	1587	3423	1094	1196	380	753	5,296	2,420	3,688	1,772	1,022	145	670	61	146	742	-2,401
1806	150	365	140	77	146	162	75	48	12	27	363	145	80	139	695	206	201	42	246	-2	533
1807	150	1,125	436	592	455	669	87	308	27	247	1,569	633	863	610	694	174	269	20	231	444	25
1808	151	505	214	369	101	N/P	N/P	N/P	N/P	N/P	580	256	443	112	52	0	0	0	52	75	N/P
1809	150	915	466	472	195	579	32	177	16	354	1,410	747	761	289	1,064	54	599	102	309	495	485
1810	150	2,398	990	1,426	1,156	348	54	159	10	125	2,095	1,050	1,302	970	743	23	598	0	122	-303	395
1811	151	3108	1186	2002	1451	1023	305	454	124	140	2,897	1,210	1,950	1299	888	28	603	41	216	-211	-135
1812	151	1,935	892	853	562	6,298	1,474	2,828	577	1,419	3,127	1,500	1,441	872	4,604	1,542	2,054	273	735	1,192	-1,694
1813	152	2	1	3	1	N/P	N/P	N/P	N/P	N/P	2	1	3	1	78	16	23	0	39	0	N/P
1814	150	1,554	592	998	768	192	39	63	39	51	2,513	996	1,687	1,193	214	77	47	10	80	959	22
1815	152	2,942	958	1,653	1,300	659	19	231	39	370	2,969	1,006	1,744	1,260	445	60	152	2	231	27	-214
1816	152	2,877	983	2,120	1,240	105	0	10	22	73	2,900	1,031	2,235	1,201	241	9	137	3	92	23	136
1817	152	1,382	587	935	718	389	4	151	51	183	1,584	700	1,120	790	488	101	139	4	244	202	99
1818	152	400	181	368	192	140	6	21	36	77	907	427	872	418	414	7	127	10	270	507	274
1819	152	2751	1030	1509	1167	1678	911	437	148	182	5,277	2,056	3,027	2,150	789	263	420	14	92	2,526	-889
1820	152	4,019	1,641	2,596	1,196	931	149	317	65	400	5,595	2,377	3,778	1,599	967	75	579	5	308	1,576	36
1821	152	301	97	225	133	N/P	N/P	N/P	N/P	N/P	1363	457	1065	579	310	12	93	82	123	1,062	N/P
1822	152	487	194	359	205	N/P	N/P	N/P	N/P	N/P	362	250	279	147	26	9	10	3	4	-125	N/P
1823	152	1,068	422	804	417	38	2	8	21	7	2,075	853	1,633	778	110	9	34	5	62	1,007	72
1824	153	754	278	584	335	326	16	68	196	46	1,309	662	1,060	559	719	100	221	250	148	555	393
1825	153	779	275	723	315	145	21	47	65	12	1,095	402	1,062	425	588	100	190	150	148	316	443
1826	153	605	231	632	293	174	19	28	107	20	10,978	4,361	11,991	5,106	1,255	233	718	204	100	10,373	1,081
1827	153	2,150	730	1,771	900	1,215	234	312	333	336	3,241	1,145	2,792	1,304	2,096	247	608	702	539	1,091	881
1828	153	1,894	661	1,634	905	312	46	64	47	155	2,203	800	1,988	1,011	416	93	118	51	154	309	104
1829	153	343	131	130	147	931	440	268	86	137	8,963	3,000	3,552	3,690	2,092	607	838	300	347	8,620	1,161
1830	153	1,076	382	993	491	114	0	30	55	29	969	450	936	425	116	9	20	48	39	-107	2
1831	151	2276	923	1019	1016	1156	487	366	110	193	2,171	916	1016	931	1,595	635	281	61	618	-105	439
1832	151	2538	1208	2387	1315	689	310	234	38	107	2,019	1,000	1,986	1005	362	100	100	12	150	-519	-327
1833	151	3650	1186	2525	1354	389	361	2	15	11	7,395	2,500	5,349	2,635	1,955	1,060	481	15	399	3,745	1,566
1834	152	1,544	646	1,149	671	242	84	78	2	78	1,840	801	1,432	768	278	11	208	4	55	296	36
1835	150	4,773	1,803	5,815	2,086	1,586	211	576	222	577	3,943	1,550	5,023	1,655	1,758	263	771	82	642	-830	172
1836	150	2,131	701	2,347	1,129	2,093	1,343	728	0	22	2,776	950	3,197	1,412	1,816	1,395	324	82	15	645	-277
1837	152	720	261	530	332	237	15	35	175	12	994	375	765	440	426	110	68	153	95	274	189
1838	153	756	248	619	300	46	9	9	16	12	805	275	689	307	72	17	18	18	19	49	26
1839	153	2,950	1,272	2,663	2,053	1,303	419	413	148	323	7,755	3,479	7,319	5,184	1,712	605	787	89	231	4,805	409
1840	152	1,079	483	835	728	460	64	245	44	107	2,102	979	1,700	1,363	547	40	248	51	208	1,023	87
1841	153	1,840	627	1,618	967	161	30	32	17	82	6,103	2,164	5,611	3,081	1,348	268	439	394	247	4,263	1,187
1842	153	1,084	348	800	484	1,561	156	904	302	199	1,802	602	1,391	773	2,272	233	1,015	667	357	718	711
1843	153	530	184	465	234	105	10	10	48	37	562	203	516	238	694	195	268	55	176	32	589
1844	151	740	260	422	321	432	185	104	100	43	853	312	508	355	504	167	147	51	139	113	72
1845	151	2,023	783	1,228	832	1,718	563	589	19	547	2,858	1,151	1,814	1,129	1,902	557	806	151	388	835	184
Total		73,325	28,000	54,084	31,537	40,105	9,875	14,503	5,619	10,108	120,741	47,825	93,067	51,445	45,921	10,927	17,415	6,454	11,125	47,416	5,816

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Newport News



Newport News: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1500	109	45	20	72	21	7,725	1,719	3,029	936	2,041	47	21	75	22	8,633	1,964	3,345	1,076	2,248	2	908
1501	109	0	0	0	0	2,503	191	1,262	595	455	0	0	0	0	2,797	219	1,394	683	501	0	294
1502	109	2,095	1,027	1,763	1,134	5,906	1,081	2,727	1,148	950	2,169	1,074	1,816	1,163	6,600	1,233	3,008	1,315	1,044	74	694
1503	103	708	358	465	385	149	40	35	47	27	733	374	479	394	167	45	39	53	30	25	18
1504	103	1,465	711	1,186	766	161	57	53	29	22	1,518	744	1,222	787	180	65	58	33	24	53	19
1505	105	1,332	550	1,205	678	440	195	116	48	81	1,379	575	1,241	695	492	221	127	55	89	47	52
1506	105	1,586	640	1,607	892	N/P	N/P	N/P	N/P	N/P	1,642	669	1,655	914	1,120	273	293	147	407	56	N/P
1507	109	3,037	1,207	1,734	1,449	624	175	147	221	81	3,144	1,262	1,786	1,486	697	198	161	251	87	107	73
1508	109	3,974	1,879	2,246	2,025	1,622	429	576	256	361	4,115	1,965	2,314	2,078	1,813	489	634	293	397	141	191
1509	111	1,574	655	2,212	718	588	270	141	28	149	1,630	685	2,278	737	657	307	155	32	163	56	69
1510	111	1,843	752	669	853	274	60	82	82	50	1,907	786	689	875	306	68	90	93	55	64	32
1511	112	780	359	559	423	3,059	777	493	1,023	766	807	375	575	434	3,419	879	540	1,164	836	27	360
1512	112	1,169	414	1,375	610	442	91	100	137	114	1,211	433	1,417	626	494	103	110	157	124	42	52
1513	107	5,324	2,072	3,759	2,543	399	135	174	26	64	5,513	2,167	3,872	2,609	446	153	192	31	70	189	47
1514	107	5,043	1,847	4,269	2,661	396	108	105	38	145	5,223	1,932	4,398	2,730	443	124	117	43	159	180	47
1515	107	5,511	2,064	3,174	2,614	1,167	371	344	197	255	5,705	2,158	3,269	2,681	1,304	422	378	225	279	194	137
1516	101	85	11	11	2	709	189	230	116	174	37	12	12	2	792	215	253	133	191	-48	83
1517	101	334	11	30	11	212	53	71	29	59	360	12	33	12	237	60	78	33	66	26	25
1518	101	688	86	256	54	3,251	326	1,694	128	1,103	713	90	264	56	3,633	377	1,883	152	1,221	25	382
1519	101	693	400	435	452	71	12	37	4	18	717	418	448	463	79	14	40	5	20	24	8
1520	101	0	0	0	0	507	59	50	320	78	0	0	0	0	567	66	54	362	85	0	60
1521	101	1,744	647	460	430	373	124	100	48	101	1,807	677	474	441	417	141	110	55	111	63	44
1522	101	2,282	948	958	847	114	1	112	0	1	2,362	991	986	868	127	1	125	0	1	80	13
1523	101	1,411	514	1,088	753	N/P	N/P	N/P	N/P	N/P	1,462	538	1,122	773	435	130	127	42	136	51	N/P
1524	101	538	196	457	270	158	43	43	12	60	557	205	471	277	177	49	47	15	66	19	19
1525	101	1,482	527	933	657	N/P	N/P	N/P	N/P	N/P	1,534	551	960	674	34	9	9	7	9	52	N/P
1526	101	1,036	391	830	368	41	15	10	9	7	1,073	409	855	378	46	17	11	10	8	37	5
1527	101	1,354	429	717	397	225	12	49	3	161	1,403	449	739	408	251	14	55	4	178	49	26
1528	101	560	167	192	105	89	23	25	17	24	581	175	198	108	99	26	28	19	26	21	10
1529	101	847	292	283	250	231	66	111	20	34	876	305	292	256	258	75	122	24	37	29	27
1530	101	819	270	345	351	201	59	55	16	71	847	282	355	360	225	67	61	19	78	28	24
1531	101	1,275	427	658	447	127	50	35	13	29	1,322	447	679	459	142	57	38	15	32	47	15
1532	101	973	355	600	294	213	60	43	30	80	1,007	371	618	301	238	68	47	35	88	34	25
1533	101	1,600	623	1,024	423	196	17	35	46	98	1,657	652	1,056	435	219	19	39	53	108	57	23
1534	101	1,528	558	673	408	465	89	100	161	115	1,583	584	693	419	520	101	110	183	126	55	55
1535	103	638	245	478	238	203	44	42	69	48	660	256	492	244	227	50	46	78	53	22	24
1536	103	651	217	349	229	N/P	N/P	N/P	N/P	N/P	674	227	360	235	30	7	8	7	8	23	N/P
1537	103	691	273	389	240	232	22	77	55	78	714	285	400	246	259	25	85	63	86	23	27
1538	103	366	150	258	129	505	192	161	91	61	379	157	266	132	564	217	176	104	67	13	59
1539	103	0	0	0	0	622	102	31	430	59	0	0	0	0	695	114	34	484	63	0	73
1540	103	476	184	541	246	637	39	160	153	285	492	192	557	252	712	45	177	176	314	16	75
1541	103	1,685	740	1,230	880	74	22	32	8	12	1,745	774	1,268	902	83	26	35	9	13	60	9
1542	102	264	94	180	129	N/P	N/P	N/P	N/P	N/P	272	98	185	131	83	25	26	16	16	8	N/P
1543	102	137	33	97	60	N/P	N/P	N/P	N/P	N/P	144	35	101	63	36,326	127	7,902	24,363	3,934	7	N/P
1544	102	580	228	559	409	N/P	N/P	N/P	N/P	N/P	599	238	575	419	30	17	3	1	9	19	N/P
1545	102	1,741	907	1,322	897	854	75	421	97	261	1,804	949	1,362	921	954	86	467	112	289	63	100
1546	102	45	20	33	35	341	73	119	52	97	47	21	34	36	381	83	131	60	107	2	40
1547	103	0	0	0	0	420	59	165	73	123	0	0	0	0	469	67	183	83	136	0	49
1548	103	4,317	1,877	4,288	2,373	399	77	170	95	57	4,470	1,963	4,417	2,435	446	88	187	108	63	153	47
1549	104	644	265	616	337	905	411	195	30	269	666	277	634	345	1,011	467	215	34	295	22	106
1550	104	2,699	1,001	1,629	1,188	921	217	295	115	294	2,795	1,047	1,679	1,219	1,029	248	326	132	323	96	108
1551	104	1,358	514	1,241	719	383	151	109	35	88	1,407	538	1,280	739	428	171	120	40	97	49	45
1552	104	1,693	636	1,485	782	701	207	193	73	228	1,752	665	1,530	802	783	236	213	83	251	59	82
1553	105	34	19	58	27	2,760	797	1,282	74	607	36	20	60	27	3,084	912	1,417	86	669	2	324
1554	105	346	160	344	225	N/P	N/P	N/P	N/P	N/P	357	167	354	231	369	53	90	15	211	11	N/P
1555	105	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	3	1	1	0	1	0	N/P
1556	105	1,046	429	900	567	1,116	395	629	26	66	1,084	449	928	582	1,247	450	693	30	74	38	131
1557	105	1,327	647	725	873	1,910	697	792	155	266	1,375	677	748	896	2,135	793	873	177	292	48	225
1558	106	3,943	1,535	3,509	1,828	982	267	380	189	146	4,082	1,605	3,614	1,874	1,097	303	419	216	159	139	115
1559	105	234	105	240	158	64	27	24	3	10	243	110	247	163	72	32	26	3	11	9	8
1560	104	4,521	1,696	4,349	2,453	838	143	347	204	144	4,682	1,774	4,481	2,517	937	164	383	233	157	161	99
1561	104	1,706	696	1,794	984	157	47	42	16	52	1,766	728	1,848	1,009	175	54	46	18	57	60	18
1562	109	1,218	494	324	523	389	212	110	23	44	1,262	517	334	537	435	240	121	26	48	44	46

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Newport News: 2015 and 2045 TAZ Data

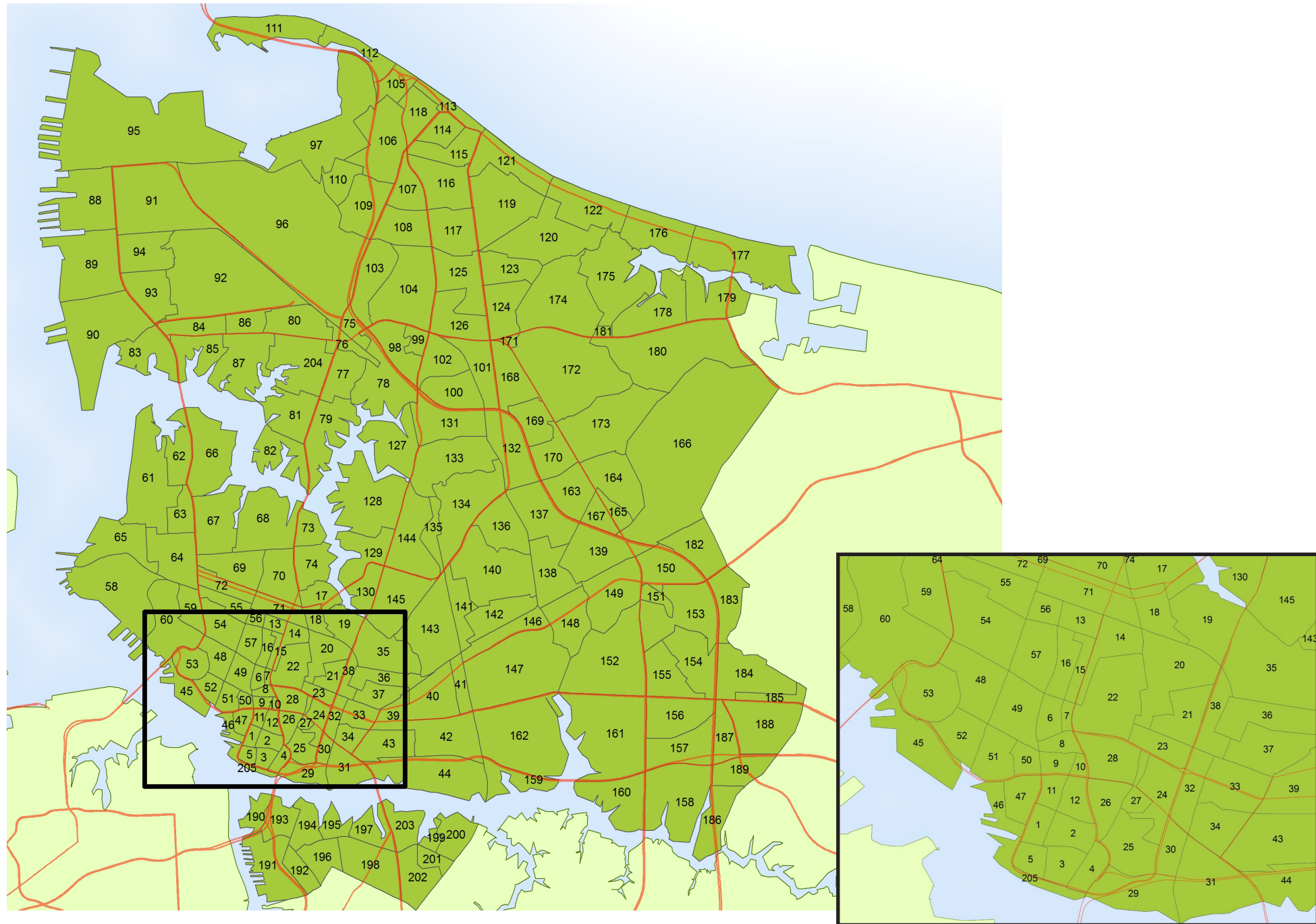
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1563	104	2,892	1,211	3,067	1,465	1,087	488	319	113	167	2,993	1,266	3,158	1,503	1,215	553	350	130	182	101	128
1564	104	1,608	642	1,460	930	161	28	34	16	83	1,664	671	1,503	953	180	32	38	18	92	56	19
1565	105	4,805	1,578	3,850	1,987	3,125	1,430	1,369	159	167	4,974	1,650	3,966	2,038	3,492	1,624	1,502	182	184	169	367
1566	105	2,238	1,104	1,583	861	N/P	N/P	N/P	N/P	N/P	2,318	1,155	1,631	884	4,915	147	1,035	90	3,643	80	N/P
1567	105	2,673	15	18	83	N/P	N/P	N/P	N/P	N/P	2,823	16	19	87	663	0	134	5	524	150	N/P
1568	105	2,419	965	2,272	1,105	372	86	62	17	207	2,504	1,009	2,341	1,133	416	99	69	20	228	85	44
1569	105	1,584	613	1,749	855	110	10	18	8	74	1,640	641	1,802	877	123	11	20	10	82	56	13
1570	105	5,159	1,982	6,104	2,750	406	93	133	70	110	5,342	2,073	6,289	2,821	454	106	146	80	122	183	48
1571	105	2,663	1,220	2,023	1,557	863	345	230	81	207	2,757	1,276	2,084	1,597	964	392	253	92	227	94	101
1572	106	6,221	2,140	6,190	3,288	532	75	136	46	275	6,441	2,238	6,376	3,373	595	86	152	53	304	220	63
1573	106	4,265	1,523	4,556	2,552	173	16	39	19	99	4,417	1,593	4,694	2,618	193	18	43	22	110	152	20
1574	108	2,827	1,315	3,024	1,503	341	81	106	48	106	2,927	1,375	3,115	1,542	381	92	117	55	117	100	40
1575	108	1,578	740	1,107	923	481	142	183	33	123	1,635	774	1,141	947	538	162	202	38	136	57	57
1576	109	654	269	556	341	1,241	495	273	321	152	676	281	572	349	1,387	560	298	364	165	22	146
1577	109	1,617	647	1,439	932	N/P	N/P	N/P	N/P	N/P	1,675	677	1,484	956	269	20	76	32	141	58	N/P
1578	108	5,421	2,173	4,008	2,722	606	200	204	32	170	5,612	2,272	4,128	2,792	677	228	226	36	187	191	71
1579	110	1,371	632	622	563	4,957	1,806	2,136	256	759	1,420	661	641	578	5,540	2,057	2,355	294	834	49	583
1580	110	1,411	674	991	852	922	600	195	39	88	1,461	705	1,022	874	1,030	677	213	44	96	50	108
1581	111	10,434	3,904	9,277	6,210	1,869	721	590	183	375	10,796	4,080	9,550	6,366	2,089	820	649	209	411	362	220
1582	111	6,238	2,082	4,465	3,117	1,106	348	216	175	367	6,458	2,177	4,599	3,197	1,236	396	238	200	402	220	130
1583	112	25	9	14	9	95	26	18	14	37	25	9	14	9	106	30	20	16	40	0	11
1584	112	427	199	308	132	89	16	33	15	25	442	208	317	135	99	19	36	17	27	15	10
1585	107	5,857	2,132	6,674	3,604	182	26	43	28	85	6,065	2,230	6,879	3,697	203	30	48	32	93	208	21
1586	106	2,130	762	1,838	1,176	97	28	36	10	23	2,206	797	1,893	1,206	108	32	40	11	25	76	11
1587	107	3,983	1,500	2,541	1,874	1,308	506	434	145	223	4,125	1,569	2,618	1,923	1,462	575	477	166	244	142	154
1588	107	525	203	432	334	274	21	66	7	180	543	212	444	342	306	24	75	8	199	18	32
1589	113	5,797	824	1,960	534	9,800	1,970	3,622	1,785	2,423	6,001	862	2,019	548	10,952	2,248	3,996	2,045	2,663	204	1,152
1590	106	2,881	1,112	3,243	1,819	61	18	14	18	11	2,983	1,163	3,341	1,866	68	21	15	20	12	102	7
1591	109	144	76	99	88	3,578	2,360	781	131	306	149	79	101	89	3,999	2,663	854	149	333	5	421
1592	108	2,911	1,187	1,668	1,418	289	122	87	45	35	3,013	1,241	1,718	1,455	323	139	96	51	37	102	34
1593	112	201	80	188	58	N/P	N/P	N/P	N/P	N/P	209	84	194	60	34	8	3	8	15	8	N/P
1594	112	1,038	198	278	276	189	98	52	9	30	1,074	207	287	283	211	111	57	10	33	36	22
1595	110	0	0	0	0	1,088	824	173	32	59	0	0	0	0	1,216	928	188	36	64	0	128
1596	107	2,362	790	2,106	1,178	362	65	109	26	162	2,446	826	2,169	1,208	405	75	121	30	179	84	43
Total		183,454	69,073	142,893	87,916	123,464	24,946	38,543	33,539	26,436	189,962	72,234	147,204	90,184	137,977	28,353	42,423	38,147	29,054	6,508	14,513

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Norfolk



Norfolk: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1	33	326	141	444	198	2,049	340	826	333	550	901	400	735	493	1,050	245	563	151	91	575	-999
2	33	141	93	223	135	2,078	798	1,051	79	150	148	100	244	134	1,700	1,527	90	21	62	7	-378
3	33	0	0	0	0	2,423	198	1,709	172	344	705	300	552	369	4,000	816	2,154	189	841	705	1,577
4	33	1,303	4	3	806	3,545	286	1,339	1,027	893	0	0	0	0	3,000	651	1,612	434	303	-1,303	-545
5	33	71	54	158	9	4,146	293	2,745	282	826	320	250	744	39	6,000	2,024	3,202	225	549	249	1,854
6	34	350	194	260	253	N/P	N/P	N/P	N/P	N/P	334	190	260	229	0	0	0	0	0	-16	N/P
7	34	0	0	0	0	333	31	147	62	93	0	0	0	0	400	192	129	69	10	0	67
8	34	13	8	35	9	391	321	59	6	5	16	10	45	10	300	55	99	55	91	3	-91
9	33	0	0	0	0	1,562	51	908	150	453	588	250	459	308	1,500	196	809	220	275	588	-62
10	33	3	1	3	3	201	54	75	23	49	0	0	0	0	250	83	132	35	0	-3	49
11	33	104	85	52	69	1,307	225	606	179	297	660	500	312	616	1,300	233	700	115	252	556	-7
12	33	11	9	39	10	1,344	219	849	31	245	357	300	1,324	311	600	77	324	88	111	346	-744
13	34	0	0	0	0	772	254	259	138	121	529	225	413	277	675	163	222	121	169	529	-97
14	34	0	0	0	0	923	149	171	420	183	211	90	165	111	700	217	226	124	133	211	-223
15	34	455	309	1,002	197	390	98	182	42	68	430	300	991	176	225	107	72	24	22	-25	-165
16	34	319	136	260	155	363	104	90	23	146	171	75	146	79	200	27	66	38	69	-148	-163
17	26	802	346	399	559	22	7	4	1	10	733	325	382	485	25	4	6	4	11	-69	3
18	34	230	89	247	213	594	149	87	317	41	126	50	142	111	150	44	50	24	32	-104	-444
19	32	892	336	401	414	N/P	N/P	N/P	N/P	N/P	1,034	400	486	456	70	7	30	14	19	142	N/P
20	32	1,632	572	653	716	114	31	24	33	26	1,667	600	698	695	100	11	43	19	27	35	-14
21	32	1,278	478	392	486	62	9	22	9	22	1,106	425	355	400	60	6	26	12	16	-172	-2
22	32	25	6	11	13	717	193	239	119	166	20	5	9	7	700	78	300	116	206	-5	-17
23	32	412	174	328	94	N/P	N/P	N/P	N/P	N/P	346	150	288	75	170	18	72	25	55	-66	N/P
24	32	1,037	398	437	186	96	16	27	4	49	1,015	400	447	173	100	10	43	19	28	-22	4
25	32	1,320	468	279	448	89	37	19	18	15	1,442	525	319	465	1,500	175	644	106	575	122	1,411
26	32	0	0	2	0	188	68	56	20	44	235	100	184	123	750	190	318	48	194	235	562
27	32	0	0	0	0	975	77	264	66	568	0	0	0	0	975	264	414	183	114	0	0
28	32	1,892	748	1,378	542	120	67	22	1	30	1,908	775	1,454	520	120	13	51	23	33	16	0
29	32	265	75	132	48	N/P	N/P	N/P	N/P	N/P	0	0	0	0	3,000	681	1,276	174	869	-265	N/P
30	32	2	1	2	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	160	18	69	30	43	-2	N/P
31	32	118	45	52	53	332	109	95	43	85	1,021	400	470	439	300	35	128	57	80	903	-32
32	32	31	11	13	6	508	163	126	106	113	0	0	0	0	500	62	213	96	129	-31	-8
33	32	224	75	120	99	N/P	N/P	N/P	N/P	N/P	262	90	147	110	150	16	65	28	41	38	N/P
34	32	2,777	135	77	235	232	12	27	152	41	8,012	400	232	644	200	26	85	38	51	5,235	-32
35	32	988	383	514	400	N/P	N/P	N/P	N/P	N/P	879	350	479	339	20	2	8	4	6	-109	N/P
36	32	313	103	391	113	253	101	30	102	20	355	120	464	121	250	27	108	48	67	42	-3
37	32	1,580	610	449	624	83	2	23	1	57	1,450	575	431	544	80	9	34	16	21	-130	-3
38	32	382	129	145	200	41	9	4	17	11	360	125	144	179	40	5	17	8	10	-22	-1
39	32	1,148	609	755	466	97	15	33	4	45	780	425	537	300	100	26	42	19	13	-368	3
40	30	1,447	552	475	434	192	39	51	22	80	3,063	1,200	1,052	872	200	26	62	73	39	1,616	8
41	30	74	29	88	37	205	43	34	104	24	75	30	93	35	200	33	61	73	33	1	-5
42	30	2,656	602	1,617	1,043	155	19	36	44	56	2,470	575	1,572	922	200	24	62	75	39	-186	45
43	32	1,118	28	113	33	N/P	N/P	N/P	N/P	N/P	0	0	0	0	1,150	139	492	174	345	-1,118	N/P
44	30	2,122	751	951	742	277	11	70	94	102	2,063	750	967	686	200	29	62	73	36	-59	-77
45	34	334	245	507	209	2,050	413	708	267	662	929	700	1,476	862	2,200	492	723	294	691	595	150
46	33	702	467	1,046	618	596	105	280	41	170	658	450	1,027	551	500	65	270	74	91	-44	-96
47	33	505	351	347	486	1,009	191	342	206	270	910	650	655	833	1,000	217	537	145	101	405	-9
48	34	1,498	867	1,173	1,302	687	165	238	75	209	1,388	825	1,137	1,145	475	108	157	85	125	-110	-212
49	34	770	398	884	601	262	70	80	14	98	754	400	904	559	200	86	64	34	16	-16	-62
50	34	20	11	15	18	322	61	147	19	95	26	15	20	23	650	131	214	94	211	6	328
51	34	713	488	635	624	N/P	N/P	N/P	N/P	N/P	426	300	397	355	100	22	32	18	28	-287	N/P
52	34	589	386	413	516	1,591	245	535	61	750	520	350	381	433	1,350	274	444	242	390	-69	-241
53	34	176	88	210	126	7,806	1,573	3,050	768	2,415	19	10	18	12	8,500	1,575	2,806	1,010	3,109	-157	694
54	34	2,064	1,255	1,422	1,267	1,781	580	593	158	450	2,082	1,300	1,500	1,214	1,050	430	438	180	2	18	-731
55	34	0	0	0	0	628	271	196	58	103	188	80	147	99	875	119	191	159	406	188	247
56	34	0	0	0	0	720	282	261	42	135	12	5	9	7	450	59	153	80	158	12	-270
57	34	447	288	286	272	753	195	249	18	291	416	275	278	241	600	79	202	108	211	-31	-153
58	26	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	50	8	12	9	21	0	N/P
59	34	929	492	646	751	299	39	106	6	148	919	500	669	706	10	1	3	2	4	-10	-289
60	34	20,321	743	1,108	1,281	1,838	257	379	715	487	19,909	750	1,139	1,196	1,600	328	527	287	458	-412	-238
61	23	4,638	902	1,530	2,018	62	14	22	6	20	5,260	1,050	1,814	2,172	100	5	34	13	48	622	38
62	23	1,045	403	836	731	12	1	4	0	7	1,073	425	898	714	10	0	3	1	6	28	-2
63	26	31	13	40	26	N/P	N/P	N/P	N/P	N/P	0	0	0	0	2,600	656	612	20	1,312	-31	N/P

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Norfolk: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
64	26	2,191	781	1,032	1,277	122	22	23	24	53	2,049	750	1,009	1,134	500	80	118	87	215	-142	378
65	26	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	20	3	5	3	9	0	N/P
66	23	1,958	833	1,507	1,282	2,000	316	991	77	616	2,003	875	1,612	1,245	2,000	81	695	245	979	45	0
67	26	3,442	820	999	1,692	1,530	427	423	260	420	4,291	1,050	1,303	2,005	1,250	726	282	134	108	849	-280
68	26	3,214	1,437	2,335	2,410	569	153	206	70	140	3,593	1,650	2,730	2,560	550	109	129	96	216	379	-19
69	26	2,498	866	1,172	1,246	202	48	55	28	71	2,388	850	1,171	1,131	500	109	118	86	187	-110	298
70	26	2,311	875	1,232	1,221	97	33	32	12	20	2,186	850	1,219	1,097	250	55	59	43	93	-125	153
71	34	609	210	231	289	1,004	247	185	367	205	847	300	336	382	900	430	288	154	28	238	-104
72	34	625	263	255	357	905	202	203	418	82	694	300	296	377	1,100	245	361	197	297	69	195
73	26	632	311	675	552	230	86	62	38	44	594	300	663	493	300	108	69	50	73	-38	70
74	26	64	26	69	50	N/P	N/P	N/P	N/P	N/P	0	0	0	0	110	38	26	17	29	-64	N/P
75	24	1	1	3	1	500	363	75	34	28	0	0	0	0	575	393	158	10	14	-1	75
76	24	262	123	205	127	1,418	729	456	63	170	347	167	283	160	1,400	722	423	175	80	85	-18
77	23	1,572	981	911	661	953	187	359	99	308	1,443	925	875	577	750	31	262	104	353	-129	-203
78	23	718	291	615	420	147	5	48	5	89	841	350	754	468	200	9	71	26	94	123	53
79	23	939	422	1,066	651	212	17	49	7	139	1,137	525	1,350	750	200	10	69	28	93	198	-12
80	23	2,225	1,144	1,211	1,338	60	33	16	2	9	2,130	1,125	1,213	1,217	20	1	7	3	9	-95	-40
81	23	1,170	620	1,001	864	500	149	143	48	160	827	450	740	580	175	7	60	26	82	-343	-325
82	23	668	275	957	420	1,095	230	525	75	265	533	225	797	318	2,200	89	765	256	1,090	-135	1,105
83	23	589	221	468	362	1,048	370	375	98	205	584	225	485	340	1,150	46	400	158	546	-5	102
84	23	1,222	671	457	815	295	32	74	101	88	1,241	700	486	786	500	117	171	64	148	19	205
85	23	1,158	606	1,395	701	195	52	90	13	40	1,117	600	1,406	642	300	13	102	41	144	-41	105
86	23	1,135	559	573	413	12	4	4	1	3	1,186	600	626	410	25	1	9	3	12	51	13
87	23	1,824	831	1,639	968	237	62	114	24	37	1,603	750	1,506	808	325	82	109	43	91	-221	88
88	20	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	8,367	242	3,267	1,973	2,885	0	N/P
89	20	0	0	0	0	163	79	47	11	26	0	0	0	0	750	30	334	159	227	0	587
90	20	0	0	0	0	1,257	78	377	696	106	0	0	0	0	100	2	44	21	33	0	-1,157
91	20	0	0	0	0	2,214	450	1,191	251	322	0	0	0	0	750	166	330	74	180	0	-1,464
92	20	3,579	669	1,084	524	1,556	242	924	120	270	2,084	400	660	290	5,000	124	2,228	1,066	1,582	-1,495	3,444
93	20	1,702	347	528	440	N/P	N/P	N/P	N/P	N/P	2,149	450	698	527	5,287	569	2,343	1,110	1,265	447	N/P
94	20	2,488	1,238	1,575	1,268	488	135	155	103	95	2,349	1,200	1,555	1,137	300	107	129	61	3	-139	-188
95	20	13,552	57	479	1,039	47,558	6,531	17,665	12,274	11,088	23,150	100	855	1,686	47,000	754	19,001	11,301	15,944	9,598	-558
96	20	149	9	1,578	20	N/P	N/P	N/P	N/P	N/P	162	10	18	21	5,000	191	2,075	984	1,750	13	N/P
97	20	1,364	362	2,510	443	4,831	657	1,637	526	2,011	367	100	706	113	5,000	131	2,228	1,052	1,589	-997	169
98	24	1,861	797	1,257	1,047	192	74	53	22	43	1,592	700	1,124	851	200	71	61	27	41	-269	8
99	24	114	43	59	59	127	56	41	10	20	233	90	125	115	100	53	29	13	5	119	-27
100	24	2,003	859	1,830	1,032	202	42	54	83	23	1,248	550	1,194	611	175	61	53	23	38	-755	-27
101	24	1,115	392	1,015	639	426	180	152	26	68	1,108	400	1,055	604	425	188	125	56	56	-7	-1
102	24	381	177	130	151	1,463	564	463	199	237	817	390	291	309	1,600	780	470	183	167	436	137
103	21	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	0	0	0	0	0	0	N/P
104	21	2,810	1,136	2,067	1,933	67	19	19	10	19	2,649	1,100	2,038	1,731	250	112	64	23	51	-161	183
105	22	34	24	32	24	142	10	29	2	101	69	50	68	47	150	69	34	14	33	35	8
106	21	3,089	1,379	1,931	1,982	28	13	6	3	6	3,054	1,400	1,996	1,862	50	25	13	5	7	-35	22
107	21	926	397	911	672	14	1	8	1	4	852	375	877	587	5	1	1	1	2	-74	-9
108	21	1,050	432	898	687	280	41	74	8	157	1,041	440	932	647	350	106	92	34	118	-9	70
109	21	1,048	458	878	633	11	3	3	2	3	1,036	465	907	595	10	1	3	1	5	-12	-1
110	21	951	477	578	598	N/P	N/P	N/P	N/P	N/P	922	475	587	551	0	0	0	0	0	-29	N/P
111	22	2,129	1,160	1,227	1,521	52	17	14	8	13	2,073	1,160	1,250	1,407	50	23	11	5	11	-56	-2
112	22	975	542	556	727	N/P	N/P	N/P	N/P	N/P	1,051	600	626	744	30	13	7	3	7	76	N/P
113	22	557	341	461	391	334	111	133	32	58	540	340	468	361	304	197	68	27	12	-17	-30
114	22	647	329	519	457	60	18	26	5	11	670	350	562	450	50	26	11	5	8	23	-10
115	22	189	112	470	130	102	30	23	4	45	411	250	1,068	269	100	47	23	8	22	222	-2
116	21	3,250	1,391	2,502	1,998	98	9	30	18	41	2,594	1,140	2,089	1,515	100	19	26	10	45	-656	2
117	21	1,709	719	1,570	1,198	57	25	13	6	13	1,689	730	1,623	1,125	75	47	19	7	2	-20	18
118	22	1,447	675	757	891	161	83	36	15	27	1,409	675	771	825	150	69	34	14	33	-38	-11
119	21	3,624	1,523	2,949	2,138	139	20	35	9	75	3,475	1,500	2,957	1,948	225	62	59	20	84	-149	86
120	21	2,036	848	1,224	1,262	36	9	7	14	6	2,104	900	2,295	1,240	10	3	3	1	3	68	-26
121	22	2,745	1,360	1,703	1,885	129	44	62	9	14	2,850	1,450	1,849	1,859	130	79	29	11	11	105	1
122	22	2,391	1,195	1,607	1,623	23	12	5	2	4	2,289	1,175	1,609	1,477	20	9	5	2	4	-102	-3
123	21	1,068	429	955	652	26	4	5	13	4	1,019	420	952	590	80	20	21	7	32	-49	54
124	21	1,203	481	1,214	702	175	90	24	6	55	1,157	475	1,221	641	10	3	3	1	3	-46	-165
125	21	1,382	591	1,433	871	139	55	36	16	32	1,252	550	1,359	750	225	96	57	23	49	-130	86
126	21	1,679	684	1,254	1,005	175	41	38	27	69	1,649	690	1,288	938	200	82	52	19	47	-30	25

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Norfolk: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
127	23	1,054	465	1,180	623	49	13	12	7	17	1,324	600	1,551	743	10	0	3	1	6	270	-39
128	23	1,346	655	1,023	846	158	25	42	12	79	1,250	625	994	747	200	7	69	28	96	-96	42
129	27	874	379	983	805	104	5	41	3	55	1,011	450	1,188	883	200	31	48	6	115	137	96
130	27	941	407	789	754	27	4	5	10	8	844	375	740	643	50	8	12	5	25	-97	23
131	24	1,004	422	809	537	255	79	75	51	50	984	425	830	501	400	152	118	56	74	-20	145
132	24	2,573	968	1,257	1,649	429	33	76	130	190	2,588	1,000	1,323	1,575	525	190	158	73	104	15	96
133	24	1,721	692	1,771	1,018	267	59	63	21	124	1,635	675	1,759	919	300	164	90	41	5	-86	33
134	28	2,500	1,026	1,893	1,643	126	21	40	43	22	2,491	1,050	1,973	1,555	125	32	44	27	22	-9	-1
135	28	154	64	201	101	143	29	25	78	11	58	25	80	36	125	34	46	25	20	-96	-18
136	28	1,467	562	1,995	900	303	21	77	169	36	1,462	575	2,079	853	300	82	109	63	46	-5	-3
137	28	1,812	719	1,338	1,052	283	75	69	76	63	1,779	725	1,374	981	300	81	106	61	52	-33	17
138	28	1,633	705	1,277	1,136	58	18	20	8	12	1,804	800	1,476	1,193	50	14	18	8	10	171	-8
139	28	463	199	470	323	4,292	723	2,167	695	707	476	210	505	315	4,300	1,614	1,544	481	661	13	8
140	28	3,610	1,413	2,703	2,367	91	17	23	7	44	3,608	1,450	2,825	2,246	100	27	36	20	17	-2	9
141	28	366	145	407	263	578	156	147	179	96	245	100	286	168	600	125	217	129	129	-121	22
142	28	1,935	720	1,398	1,423	139	18	23	25	73	1,832	700	1,384	1,280	140	34	51	29	26	-103	1
143	27	2,260	851	1,652	1,370	266	60	68	83	55	2,198	850	1,680	1,266	375	74	89	123	89	-62	109
144	27	2,884	1,165	2,175	1,626	257	127	71	34	25	2,893	1,200	2,281	1,549	200	81	47	28	44	9	-57
145	27	2,553	959	1,960	1,409	187	50	72	25	40	2,436	940	1,956	1,277	300	183	68	35	14	-117	113
146	28	1,039	400	892	752	245	84	64	62	35	860	340	772	591	250	58	90	53	49	-179	5
147	30	2	1	3	2	5,096	797	1,543	1,886	870	0	0	0	0	5,100	1,554	1,560	1,094	892	-2	4
148	28	1,790	680	1,438	1,073	305	84	93	48	80	1,217	475	1,022	693	300	65	108	64	63	-573	-5
149	28	1,524	599	1,291	971	226	100	53	22	51	1,672	675	1,482	1,012	200	114	70	11	5	148	-26
150	29	31	11	21	18	2,810	401	913	685	811	14	5	10	7	1,750	488	596	285	381	-17	-1,060
151	28	145	53	190	57	N/P	N/P	N/P	N/P	N/P	106	40	146	146	600	163	215	12	210	-39	N/P
152	29	1,497	531	848	806	2,754	468	1,389	538	359	1,921	700	1,139	982	2,625	1,444	863	303	15	424	-129
153	29	167	56	198	120	789	237	262	62	267	130	45	162	90	1,300	379	443	211	267	-37	511
154	29	730	319	576	464	N/P	N/P	N/P	N/P	N/P	780	350	644	471	200	55	69	33	43	50	N/P
155	29	720	318	1,101	477	724	446	166	41	71	771	350	1,234	486	750	217	255	122	156	51	26
156	29	92	84	177	39	2,521	415	1,398	195	513	320	300	644	316	3,000	181	1,439	175	1,205	228	479
157	29	777	285	622	435	1,830	679	535	203	413	664	250	556	353	1,700	488	579	276	357	-113	-130
158	29	1,644	748	1,527	1,166	362	61	74	147	80	1,819	850	1,767	1,226	700	188	238	116	158	175	338
159	30	224	95	306	170	180	12	51	81	36	230	100	328	166	200	32	62	72	34	6	20
160	29	634	359	1,197	505	2,000	69	1,573	55	303	473	275	934	358	2,400	649	821	289	641	-161	400
161	29	2,781	1,083	2,271	1,814	1,404	587	430	190	197	3,000	1,200	2,562	1,859	1,300	704	434	115	47	219	-104
162	30	2,933	1,229	2,437	2,121	1,189	99	243	652	195	2,846	1,225	2,474	1,955	1,200	154	370	341	335	-87	11
163	28	1,080	439	1,018	590	119	37	40	15	27	958	400	945	497	100	43	35	21	1	-122	-19
164	25	1,051	398	1,103	662	33	19	5	5	4	964	375	1,058	577	30	10	9	8	3	-87	-3
165	25	125	47	88	84	38	0	36	0	2	233	90	172	148	30	9	9	9	3	108	-8
166	25	1	1	3	1	1,005	95	475	201	234	0	0	0	0	1,350	458	415	373	104	-1	345
167	28	0	0	0	0	817	168	361	244	44	0	0	0	0	800	317	284	165	34	0	-17
168	24	2,248	982	1,348	1,319	429	101	142	19	167	2,006	900	1,258	1,118	200	139	58	1	2	-242	-229
169	24	1,218	516	496	766	N/P	N/P	N/P	N/P	N/P	1,436	625	612	859	150	54	44	20	32	218	N/P
170	28	1,792	728	1,119	910	338	219	75	12	32	2,277	950	1,487	1,098	300	115	107	62	16	485	-38
171	24	0	0	0	0	125	34	65	11	15	0	0	0	0	150	55	44	19	32	0	25
172	25	4,024	1,761	3,431	2,133	953	394	278	46	235	4,060	1,825	3,621	2,044	1,000	584	301	38	77	36	47
173	25	1,727	666	1,555	1,067	201	132	29	6	34	1,642	650	1,546	964	200	67	60	55	18	-85	-1
174	21	2,037	827	1,987	1,340	217	87	90	10	30	2,039	850	2,080	1,274	150	37	40	15	58	2	-67
175	21	2,095	862	1,994	1,339	288	51	70	91	76	2,012	850	2,002	1,222	25	7	7	2	9	-83	-263
176	22	2,225	1,051	1,420	1,315	99	43	27	16	13	2,113	1,025	1,410	1,187	100	46	22	9	23	-112	1
177	22	2,474	1,125	1,506	1,505	167	70	43	12	42	3,212	1,500	2,045	1,857	170	78	38	16	38	738	3
178	21	1,364	560	1,650	877	128	17	30	8	73	1,423	600	1,801	869	20	5	5	2	8	59	-108
179	22	1,612	715	753	993	220	79	76	19	46	2,196	1,000	1,072	1,285	200	121	44	18	17	584	-20
180	25	2,574	1,145	3,639	1,434	894	293	255	75	271	2,353	1,075	3,484	1,245	900	552	267	34	47	-221	6
181	21	75	29	53	48	12	8	3	0	1	51	20	38	31	30	9	8	2	11	-24	18
182	29	0	0	0	0	114	31	30	28	25	0	0	0	0	1,400	1,121	22	1	256	0	1,286
183	29	25	7	17	12	N/P	N/P	N/P	N/P	N/P	0	0	0	0	600	216	203	10	171	-25	N/P
184	29	1,380	528	1,393	872	94	46	17	5	26	1,145	450	1,209	687	450	267	148	9	26	-235	356
185	29	105	46	187	80	88	40	22	8	18	156	70	290	112	10	2	3	2	3	51	-78
186	29	746	202	631	384	N/P	N/P	N/P	N/P	N/P	629	175	557	308	500	135	170	49	146	-117	N/P
187	29	0	0	0	0	3,500	610	1,656	326	908	0	0	0	0	3,750	1,191	1,276	330	953	0	250
188	29	964	367	538	622	3,231	678	1,445	307	801	959	375	560	588	5,000	2,164	1,693	304	839	-5	1,769
189	29	245	95	200	108	210	57	88	18	47	690	275	590	289	400	109	137	17	137	445	190

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

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Norfolk: 2015 and 2045 TAZ Data

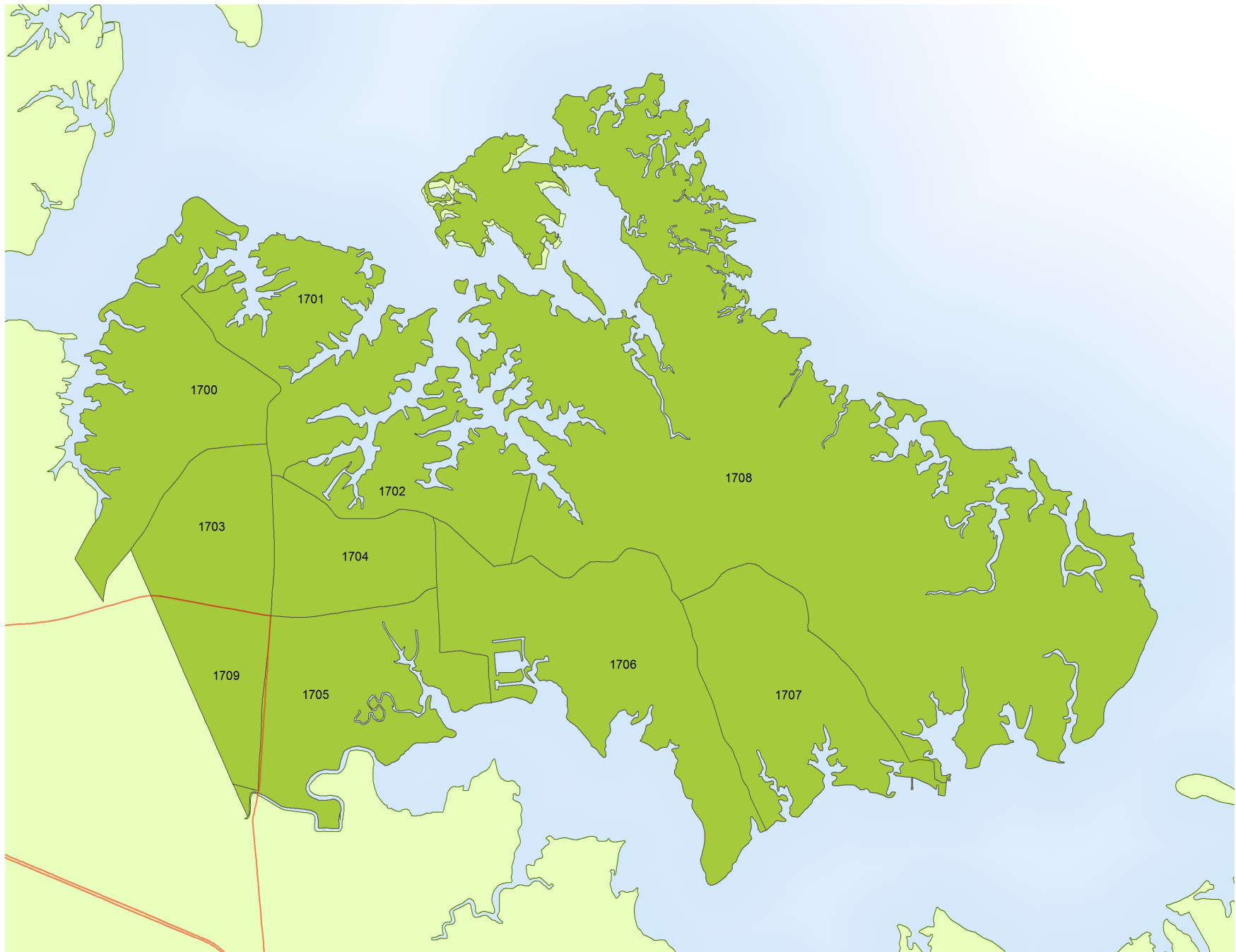
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
190	31	0	0	0	0	585	5	63	436	81	0	0	0	0	575	30	87	377	81	0	-10
191	31	41	6	21	11	N/P	N/P	N/P	N/P	N/P	0	0	0	0	1,900	96	284	1,172	348	-41	N/P
192	31	1,119	461	871	583	583	149	199	64	171	1,028	435	837	508	575	77	84	377	37	-91	-8
193	31	185	72	59	102	9	3	2	1	3	188	75	62	98	25	1	4	17	3	3	16
194	31	606	221	464	354	118	80	19	10	9	668	250	535	370	125	7	18	82	18	62	7
195	31	73	25	71	64	793	23	94	582	94	0	0	0	0	900	41	136	589	134	-73	107
196	31	1,126	399	499	524	N/P	N/P	N/P	N/P	N/P	1,127	410	522	498	1,500	194	222	836	248	1	N/P
197	31	135	60	95	75	47	7	32	2	6	165	75	121	87	100	16	15	66	3	30	53
198	31	2,585	870	1,080	851	260	30	108	61	61	2,632	910	1,151	824	260	11	40	171	38	47	0
199	31	6	5	3	4	31	3	17	2	9	6	5	3	4	50	3	7	8	32	0	19
200	31	1	1	2	1	8	0	3	3	2	0	0	0	0	50	4	8	3	35	-1	42
201	31	15	7	23	9	N/P	N/P	N/P	N/P	N/P	11	5	16	6	50	5	8	33	4	-4	N/P
202	31	852	255	188	266	N/P	N/P	N/P	N/P	N/P	813	250	187	242	100	4	14	65	17	-39	N/P
203	31	596	234	445	317	15	5	4	1	5	1,116	450	872	563	50	3	7	32	8	520	35
204	23	1,865	981	2,089	1,192	1,102	186	371	160	385	1,759	950	2,060	1,068	275	55	94	36	90	-106	-827
205	33	0	0	0	0	4,740	595	2,422	891	832	0	0	0	0	5,800	857	3,125	1,079	739	0	1,060
Total		247,189	87,045	157,062	123,302	211,869	39,401	79,799	37,344	55,325	263,837	92,387	165,107	120,846	216,143	40,510	81,398	38,081	56,154	16,648	4,274

*Note: TAZs were renumbered as part of the 2015 model update.

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TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Poquoson



Poquoson: 2015 and 2045 TAZ Data

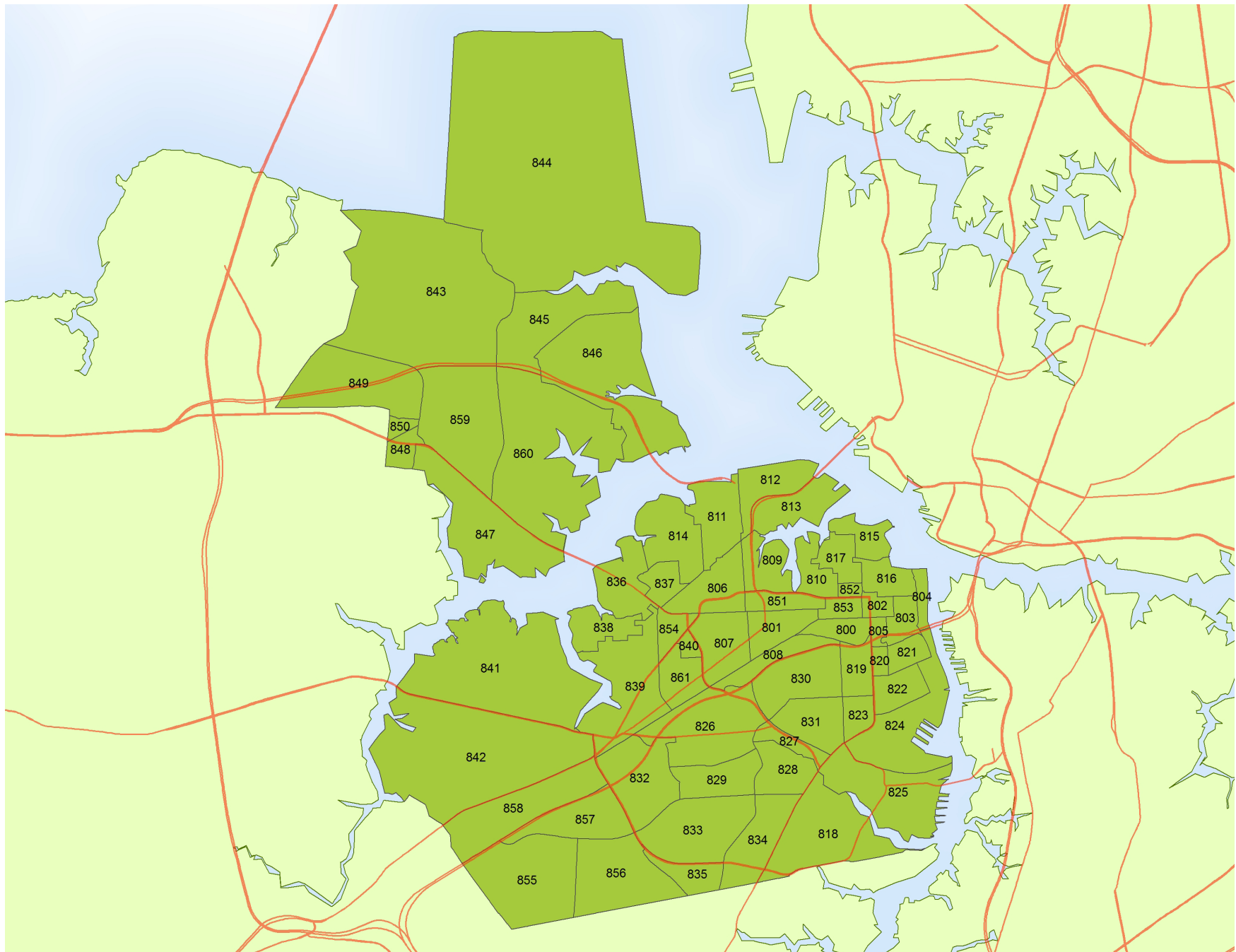
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1700	130	2,392	850	2,244	936	80	22	19	27	12	2,458	885	2,353	938	65	4	25	10	26	66	-15
1701	130	1,371	528	1,291	736	67	19	13	18	17	1,369	534	1,316	717	93	6	19	8	60	-2	26
1702	130	1,004	365	866	358	196	56	55	36	49	800	295	705	278	198	55	56	42	45	-204	2
1703	130	1,443	609	1,291	815	67	30	36	0	1	1,501	642	1,371	828	213	124	16	15	58	58	146
1704	130	1,045	399	966	490	709	215	254	37	203	1,065	412	1,004	488	827	215	291	45	276	20	118
1705	130	1,404	537	1,398	714	343	170	94	32	47	1,512	586	1,537	751	361	140	106	25	90	108	18
1706	130	2,102	750	1,742	972	32	9	7	10	6	2,061	745	1,743	931	33	8	11	12	2	-41	1
1707	130	507	176	418	261	N/P	N/P	N/P	N/P	N/P	606	213	510	305	35	2	12	10	11	99	N/P
1708	130	684	248	688	356	231	24	79	18	110	618	227	635	314	279	58	75	26	120	-66	48
1709	130	407	180	494	298	335	88	143	12	92	647	290	802	463	481	130	216	13	123	240	146
Total		12,359	4,642	11,398	5,936	2,083	642	705	195	541	12,637	4,829	11,976	6,013	2,585	742	827	206	811	278	502

*Note: TAZs were renumbered as part of the 2015 model update.

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TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Portsmouth



Portsmouth: 2015 and 2045 TAZ Data

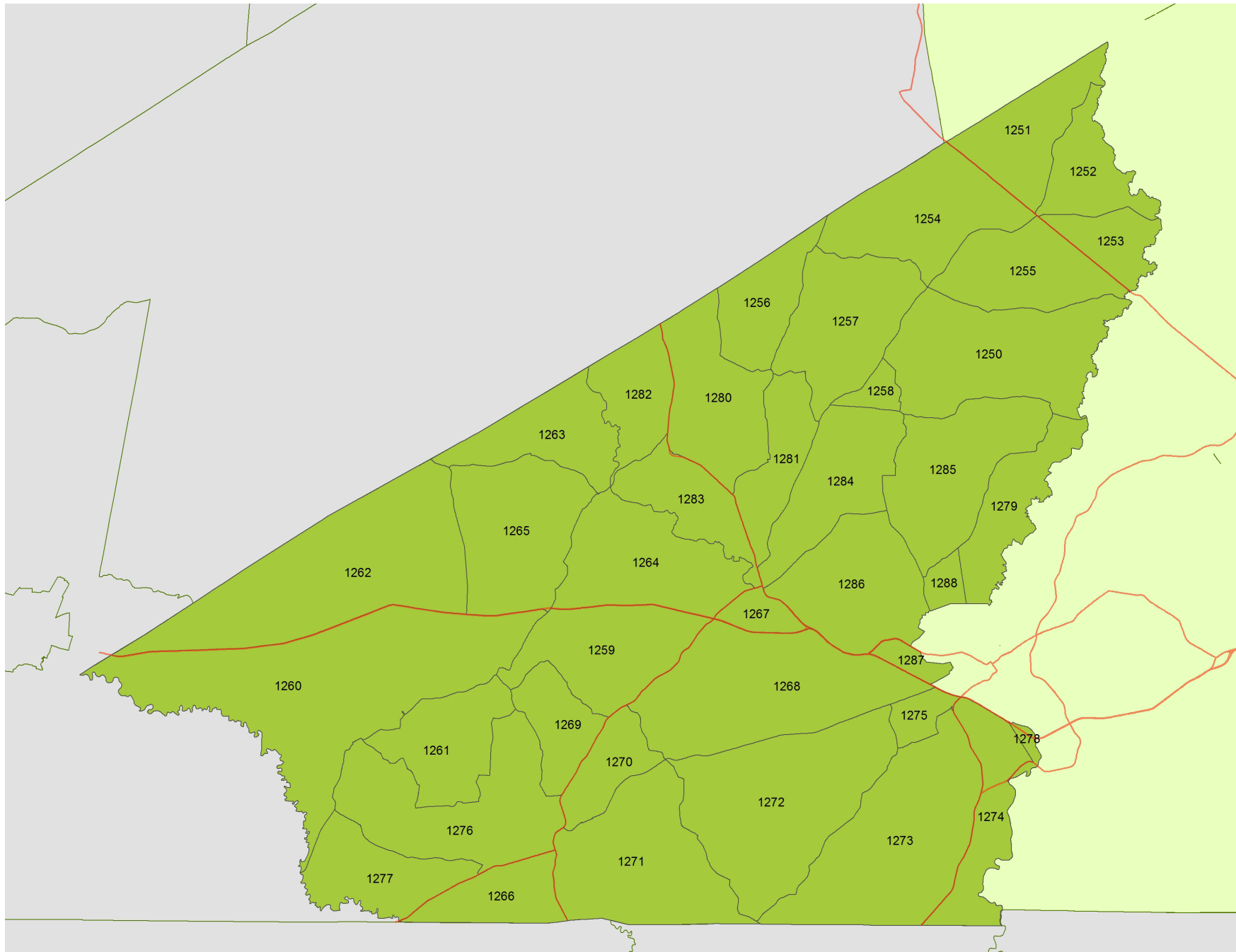
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
800	40	1,016	517	1,485	558	108	34	31	16	27	1,067	542	1,583	536	70	5	30	11	24	51	-38
801	40	257	99	112	81	530	118	111	144	157	215	83	96	62	415	120	68	161	66	-42	-115
802	40	287	175	233	169	955	331	312	119	193	280	171	232	151	715	431	136	74	74	-7	-240
803	40	530	328	217	266	1,236	192	573	173	298	531	328	221	244	1,185	606	338	90	151	1	-51
804	40	793	222	184	293	1,438	184	607	223	424	1,903	532	448	644	3,708	81	1,733	784	1,110	1,110	2,270
805	40	305	140	146	134	N/P	N/P	N/P	N/P	N/P	303	139	147	122	80	58	11	4	7	-2	N/P
806	40	1,938	695	813	596	1,606	234	329	736	307	1,835	657	782	516	980	310	127	459	84	-103	-626
807	40	1,351	557	679	291	761	248	234	79	200	1,462	602	746	289	645	363	108	67	107	111	-116
808	40	636	234	100	154	275	21	81	112	61	253	93	41	56	89	8	20	40	21	-383	-186
809	40	1,029	418	711	512	633	15	122	429	67	1,026	416	720	468	73	7	12	48	6	-3	-560
810	40	831	330	432	410	202	41	63	16	82	794	315	419	358	202	119	16	55	12	-37	0
811	41	2,351	982	1,457	1,176	535	130	131	175	99	2,288	954	1,438	1,047	332	97	71	112	52	-63	-203
812	40	3	1	5	1	128	20	14	79	15	0	0	0	0	403	0	185	110	108	-3	275
813	40	17	12	0	9	464	23	93	244	104	33	23	0	23	288	0	128	70	90	16	-176
814	41	2,083	844	1,807	946	58	15	14	7	22	1,854	750	1,633	771	148	48	19	67	14	-229	90
815	40	183	1	209	0	8,384	1,436	3,399	1,932	1,617	0	0	0	0	14,398	1,564	4,802	647	7,385	-183	6,014
816	40	1,680	898	907	878	594	174	186	55	179	2,038	1,088	1,117	976	1,826	130	766	255	675	358	1,232
817	40	1,244	451	672	590	99	35	28	10	26	1,420	514	779	616	435	54	137	46	198	176	336
818	41	4,768	1,768	2,828	2,116	758	237	245	40	236	4,249	1,574	2,560	1,727	580	314	127	37	102	-519	-178
819	40	1,405	452	546	451	187	41	64	42	40	1,469	472	579	432	95	38	26	8	23	64	-92
820	40	5	1	0	1	131	13	53	26	39	696	139	0	127	28	12	7	4	5	691	-103
821	40	0	0	0	0	432	36	187	106	103	5	2	3	2	191	0	105	38	48	5	-241
822	40	1,375	594	475	541	877	174	221	385	97	1,257	542	440	453	258	37	56	143	22	-118	-619
823	40	718	259	317	207	N/P	N/P	N/P	N/P	N/P	630	227	283	166	79	0	19	3	57	-88	N/P
824	40	332	8	26	10	N/P	N/P	N/P	N/P	N/P	249	6	20	7	9,323	173	4,670	3,336	1,144	-83	N/P
825	40	22	13	4	11	750	327	162	126	135	125	74	23	58	9,518	981	4,606	3,652	279	103	8,768
826	41	3,078	1,198	1,560	1,050	177	41	34	6	96	2,383	926	1,226	744	271	51	65	28	127	-695	94
827	41	55	20	27	22	124	48	18	37	21	215	78	107	79	91	36	9	36	10	160	-33
828	41	942	346	459	340	20	4	7	2	7	818	300	405	270	88	37	26	9	16	-124	68
829	41	1,044	388	532	511	101	21	22	10	48	1,747	648	903	782	174	121	14	1	38	703	73
830	40	3,294	1,080	1,559	1,064	90	31	25	11	23	3,409	1,116	1,638	1,008	50	5	15	9	21	115	-40
831	40	1,691	556	894	515	595	176	175	77	167	1,580	519	849	441	351	50	132	47	122	-111	-244
832	41	12	7	4	7	1,260	309	284	32	635	2,010	1,171	680	1,074	1,066	485	264	153	164	1,998	-194
833	41	1,902	689	1,421	733	98	27	23	21	27	3,505	1,268	2,658	1,237	297	51	54	0	192	1,603	199
834	41	2,362	985	1,570	954	426	150	113	65	98	2,123	884	1,432	785	611	403	83	87	38	-239	185
835	41	333	151	249	132	698	163	170	152	213	276	125	209	100	527	38	190	178	121	-57	-171
836	41	1,505	713	1,113	739	2,515	298	817	144	1,256	879	416	660	395	142	12	56	20	54	-626	-2,373
837	41	228	80	147	81	N/P	N/P	N/P	N/P	N/P	200	70	131	65	1,568	209	355	70	934	-28	N/P
838	41	1,146	472	766	551	197	55	55	30	57	1,048	431	711	461	117	50	32	12	23	-98	-80
839	41	2,992	1,182	2,169	1,207	677	272	213	57	135	2,581	1,018	1,899	954	1,335	773	326	81	155	-411	658
840	41	11	5	26	6	1,167	885	206	26	50	0	0	0	0	937	713	125	36	63	-11	-230
841	41	5,446	2,183	4,680	2,616	487	152	136	45	154	4,627	1,852	4,036	2,034	488	256	48	71	113	-819	1
842	41	7,179	3,045	5,850	3,206	1,273	325	379	171	398	6,340	2,685	5,243	2,584	2,241	1,443	332	140	326	-839	968
843	42	10,216	3,510	8,238	5,315	372	38	89	12	233	9,407	3,227	7,695	4,480	369	150	56	6	157	-809	-3
844	42	0	0	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	1,275	0	568	308	399	0	N/P
845	42	569	100	33	481	N/P	N/P	N/P	N/P	N/P	576	101	34	446	439	25	174	121	119	7	N/P
846	42	258	102	155	102	878	80	107	589	102	248	98	151	90	1,150	122	167	608	253	-10	272
847	42	2,115	982	1,896	933	168	79	33	18	38	2,006	930	1,826	810	105	12	30	8	55	-109	-63
848	42	25	10	34	8	664	229	340	25	70	13	5	17	4	923	598	209	59	57	-12	259
849	42	4,864	1,896	2,661	2,258	136	65	42	10	19	4,712	1,834	2,617	2,002	335	282	26	14	13	-152	199
850	42	3	1	4	1	1,003	347	302	104	250	3	1	4	1	485	412	34	12	27	0	-518
851	40	150	55	101	44	190	32	45	24	89	125	46	85	34	263	190	26	9	38	-25	73
852	40	214	21	7	59	185	54	58	18	55	10	1	0	3	339	88	110	39	102	-204	154
853	40	258	61	453	230	293	104	85	43	61	610	144	1,087	498	262	120	88	23	31	352	-31
854	41	330	121	253	136	907	312	284	82	229	202	74	158	76	595	385	97	31	82	-128	-312
855	41	3,074	1,085	2,879	1,592	142	9	76	9	48	2,888	1,018	2,746	1,370	420	76	131	36	177	-186	278
856	41	3,470	1,287	2,623	1,409	289	85	79	21	104	3,406	1,259	2,608	1,263	84	0	33	4	47	-64	-205
857	41	1,675	636	871	732	70	25	16	7	22	1,928	731	1,018	771	494	89	161	91	153	253	424
858	41	1,661	118	252	101	2,484	722	549	810	403	2,355	167	363	131	613	309	97	158	49	694	-1,871
859	42	2,915	1,132	3,328	1,423	347	122	86	40	99	2,806	1,088	3,252	1,254	351	195	36	3	117	-109	4
860	42	5,231	2,095	4,903	2,924	271	63	96	42	70	5,364	2,145	5,103	2,745	254	49	63	97	45	133	-17
861	41	1,467	446	772	491	283	104	83	35	61	1,370	416	732	420	518	231	133	73	81	-97	235
Total		96,874	36,757	66,854	42,374	60,795	12,225	21,052	12,174	15,344	97,752	37,035	66,593	39,262	65,692	13,622	22,688	12,999	16,383	878	4,897

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Southampton



Southampton: 2015 and 2045 TAZ Data

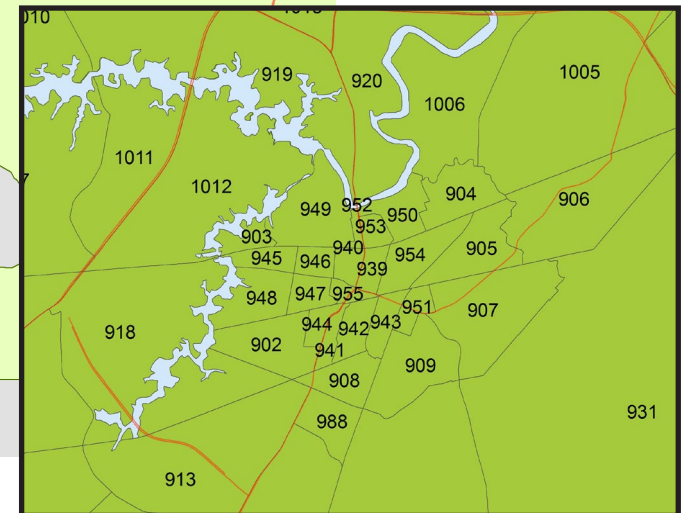
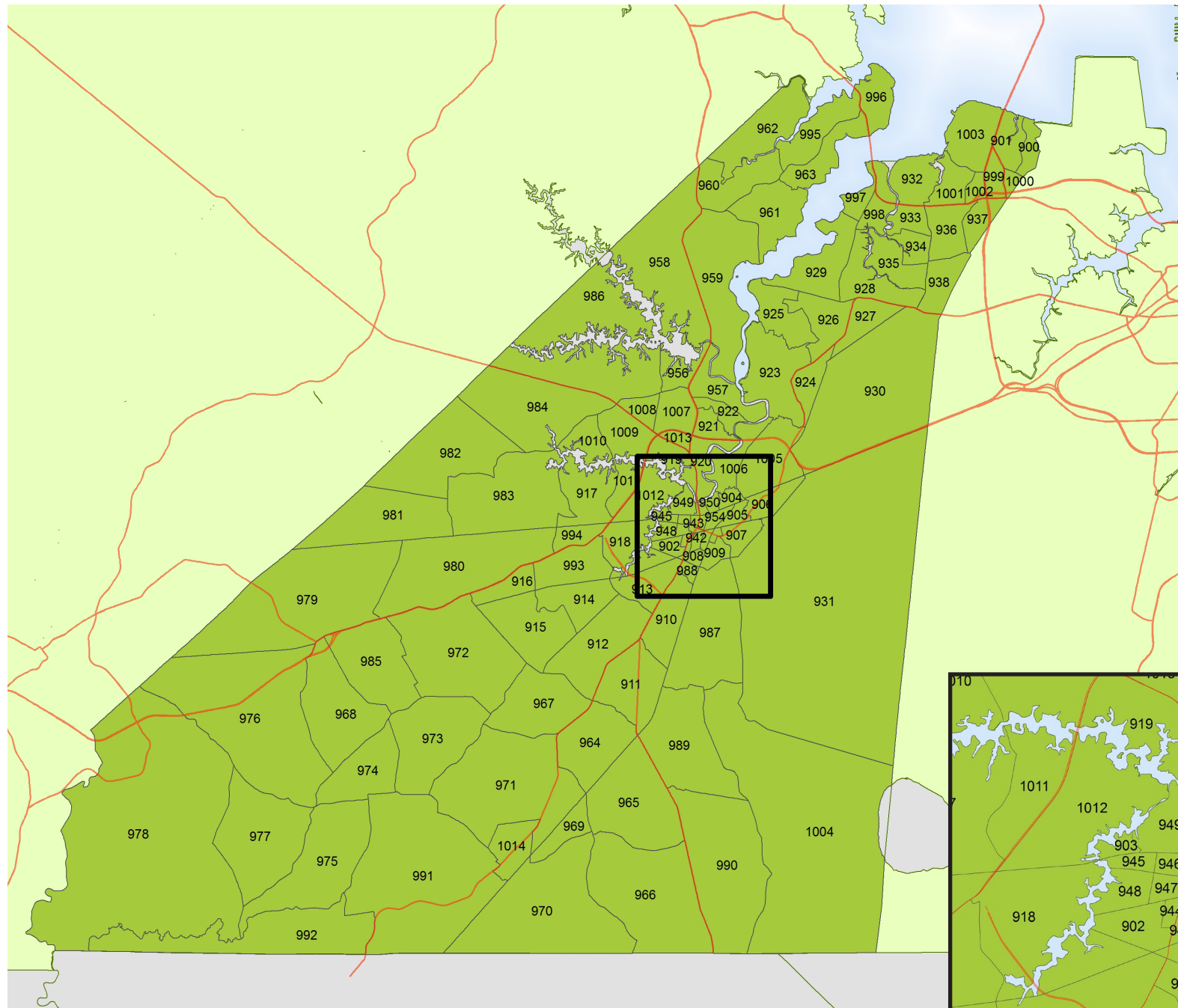
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1250	190	802	294	1,004	469	8	2	4	1	1	458	324	856	338	9	3	4	1	1	-344	1
1251	190	202	83	118	78	N/P	N/P	N/P	N/P	N/P	198	91	173	63	63	31	15	9	8	-4	N/P
1252	190	238	91	176	176	49	24	4	20	1	160	100	177	149	53	25	4	23	1	-78	4
1253	190	208	93	323	101	N/P	N/P	N/P	N/P	N/P	187	102	276	127	14	2	2	8	2	-21	N/P
1254	190	518	210	617	313	90	24	20	28	18	297	231	528	226	98	26	21	32	19	-221	8
1255	190	390	149	269	209	N/P	N/P	N/P	N/P	N/P	240	164	247	163	48	12	11	14	11	-150	N/P
1256	190	65	28	15	10	N/P	N/P	N/P	N/P	N/P	167	31	58	33	4	1	1	0	2	102	N/P
1257	190	273	99	155	93	N/P	N/P	N/P	N/P	N/P	334	109	283	145	98	2	18	12	66	61	N/P
1258	190	42	15	27	10	N/P	N/P	N/P	N/P	N/P	43	17	42	13	8	0	0	6	2	1	N/P
1259	191	522	192	822	353	316	20	116	71	109	239	211	563	204	344	22	122	86	114	-283	28
1260	191	509	196	395	216	80	7	9	51	13	461	216	535	247	87	8	8	59	12	-48	7
1261	191	114	47	52	30	N/P	N/P	N/P	N/P	N/P	168	52	114	56	8	1	5	0	2	54	N/P
1262	190	826	287	260	204	127	27	42	25	33	844	315	397	264	138	29	44	31	34	18	11
1263	190	54	17	9	3	N/P	N/P	N/P	N/P	N/P	148	19	38	11	2	1	1	0	0	94	N/P
1264	190	652	259	1,008	456	57	15	11	15	16	585	285	772	357	62	16	11	18	17	-67	5
1265	190	1,594	131	137	47	612	85	259	153	115	4,462	144	574	165	667	92	271	183	121	2,868	55
1266	191	339	145	247	121	N/P	N/P	N/P	N/P	N/P	304	160	331	138	29	2	11	11	5	-35	N/P
1267	192	704	224	1,853	324	637	92	230	153	162	632	247	669	309	696	102	239	186	169	-72	59
1268	191	883	365	455	393	505	132	136	148	89	942	402	725	530	550	141	141	175	93	59	45
1269	191	124	50	63	44	N/P	N/P	N/P	N/P	N/P	134	55	102	61	19	0	0	19	0	10	N/P
1270	191	97	40	67	31	N/P	N/P	N/P	N/P	N/P	111	44	114	45	88	3	19	0	66	14	N/P
1271	191	881	359	885	679	186	35	52	63	36	790	395	1,069	495	203	38	54	74	37	-91	17
1272	191	735	291	985	349	185	12	30	115	28	571	320	1,143	343	201	11	29	134	27	-164	16
1273	191	693	276	276	150	N/P	N/P	N/P	N/P	N/P	1,070	304	637	293	29	3	3	18	5	377	N/P
1274	191	973	352	760	502	87	23	27	20	17	647	387	756	421	95	25	28	24	18	-326	8
1275	191	74	36	23	10	N/P	N/P	N/P	N/P	N/P	251	40	117	43	40	14	9	7	10	177	N/P
1276	191	468	174	434	179	454	31	69	287	67	393	191	545	190	494	29	68	334	63	-75	40
1277	191	88	31	25	10	N/P	N/P	N/P	N/P	N/P	79	34	34	11	7	2	1	2	2	-9	N/P
1278	191	100	40	38	51	N/P	N/P	N/P	N/P	N/P	54	44	31	35	0	0	0	0	0	-46	N/P
1279	190	317	124	156	68	25	4	4	12	5	580	136	426	156	27	4	4	14	5	263	2
1280	190	135	63	68	32	N/P	N/P	N/P	N/P	N/P	264	69	198	79	12	0	1	10	1	129	N/P
1281	190	315	122	197	82	289	18	78	168	25	324	134	303	107	315	17	79	195	24	9	26
1282	190	58	25	20	10	N/P	N/P	N/P	N/P	N/P	161	28	83	35	0	0	0	0	0	103	N/P
1283	190	424	190	321	98	N/P	N/P	N/P	N/P	N/P	608	209	689	178	673	87	198	221	167	184	N/P
1284	192	913	345	1,151	462	161	40	52	32	37	565	380	1,064	361	175	43	54	39	39	-348	14
1285	190	1,193	439	1,221	642	81	21	19	24	17	714	483	1,092	486	88	23	20	28	17	-479	7
1286	192	1,634	648	1,220	588	700	79	232	233	156	1,552	713	1,726	708	762	85	241	275	161	-82	62
1287	191	74	24	4	2	N/P	N/P	N/P	N/P	N/P	260	26	21	10	32	4	12	6	10	186	N/P
1288	190	320	126	434	222	N/P	N/P	N/P	N/P	N/P	221	139	448	194	17	2	3	8	4	-99	N/P
Total		18,551	6,680	16,290	7,817	5,743	845	1,690	1,914	1,294	20,218	7,351	17,956	7,823	6,255	906	1,752	2,262	1,335	1,667	512

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TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Suffolk



Suffolk: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
900	53	2150	635	1434	926	454	31	157	12	254	2,104	650	1404	827	500	39	182	17	262	-46	46
901	53	3226	952	2150	1389	4086	1080	1882	607	517	3,240	1,000	2,160	1273	4,200	1,124	1,955	643	478	14	114
902	50	1,153	396	843	387	242	25	28	163	26	1,252	450	916	384	300	31	34	206	29	99	58
903	50	172	64	103	53	N/P	N/P	N/P	N/P	N/P	206	80	123	58	1,000	175	324	244	257	34	N/P
904	50	360	146	253	151	266	54	87	41	84	389	165	274	149	270	57	91	44	78	29	4
905	50	1,548	536	798	540	N/P	N/P	N/P	N/P	N/P	1,588	575	819	505	28	7	5	2	14	40	N/P
906	51	943	340	530	450	199	12	41	7	139	1,060	400	597	461	199	13	45	8	133	117	0
907	50	3,443	1,175	1,600	1,160	347	129	108	37	73	4,201	1,500	1,954	1,292	347	131	110	39	67	758	0
908	50	1,125	389	588	417	195	31	78	50	36	1,106	400	579	374	195	32	79	51	33	-19	0
909	50	1,771	539	1,113	628	330	69	71	52	138	1,806	575	1,135	584	330	71	73	57	129	35	0
910	52	45	17	23	19	337	36	112	89	100	119	47	61	46	337	37	114	94	92	74	0
911	52	381	136	326	164	N/P	N/P	N/P	N/P	N/P	498	186	427	195	10	0	3	5	2	117	N/P
912	52	458	184	535	186	161	50	35	36	40	595	250	695	221	300	95	66	70	69	137	139
913	52	572	190	550	231	99	26	22	34	17	1,726	600	1,662	636	500	132	112	177	79	1,154	401
914	52	205	75	247	93	N/P	N/P	N/P	N/P	N/P	392	150	473	162	20	4	3	5	8	187	N/P
915	52	331	114	375	142	N/P	N/P	N/P	N/P	N/P	555	200	629	217	8	5	1	0	2	224	N/P
916	52	90	31	90	47	47	42	5	0	0	222	80	222	106	300	265	35	0	0	132	253
917	51	352	139	459	179	101	13	19	50	19	484	200	631	225	200	27	37	102	34	132	99
918	52	1,461	476	1,024	640	559	138	119	153	149	2,054	700	1,441	821	559	140	122	159	138	593	0
919	51	417	156	366	170	1,808	558	778	215	257	1,278	500	1,122	475	2,500	783	1,089	307	321	861	692
920	51	1,387	194	394	609	2,414	847	938	344	285	2,392	350	680	959	2,414	856	945	357	256	1,005	0
921	51	2038	656	1512	1058	N/P	N/P	N/P	N/P	N/P	2,079	700	1,543	985	1,900	499	862	412	127	41	N/P
922	51	1359	438	1008	705	465	71	59	24	311	1,483	500	1101	702	500	83	70	31	316	124	35
923	51	1,265	404	1,008	539	361	22	50	238	51	2,694	900	2,148	1,048	400	25	52	271	52	1,429	39
924	51	629	192	535	261	N/P	N/P	N/P	N/P	N/P	783	250	667	297	122	11	27	13	71	154	N/P
925	51	581	178	536	206	N/P	N/P	N/P	N/P	N/P	1,248	400	1,152	404	10	0	3	4	3	667	N/P
926	51	1,165	330	949	525	257	11	46	57	143	1,519	450	1,238	625	300	15	57	73	155	354	43
927	51	200	71	175	90	414	46	137	193	38	808	300	707	331	414	46	139	195	34	608	0
928	53	2,932	904	1,907	1,428	226	52	51	16	107	4,030	1,300	2,623	1,792	226	54	53	19	100	1,098	0
929	53	1,326	444	1,373	757	219	15	39	37	128	1,999	700	2,071	1,041	219	17	42	40	120	673	0
930	51	199	71	219	78	582	55	216	244	67	268	100	295	96	1,000	93	373	433	101	69	418
931	52	760	234	456	272	N/P	N/P	N/P	N/P	N/P	931	300	560	304	23	8	2	5	8	171	N/P
932	53	995	358	937	460	185	38	15	116	16	2,657	1,000	2,503	1,121	200	40	16	129	15	1,662	15
933	53	2691	811	2847	1250	645	286	241	23	95	2,585	815	2,737	1096	645	291	243	24	87	-106	0
934	53	769	232	813	357	36	0	0	13	23	1109	350	1174	470	36	0	0	14	22	340	0
935	53	384	116	407	179	N/P	N/P	N/P	N/P	N/P	1,582	500	1,678	673	36	0	0	14	22	1,198	N/P
936	53	2460	917	1842	1119	287	120	110	37	20	3,333	1,300	2,498	1,383	700	295	269	93	43	873	413
937	53	2459	917	1842	1119	N/P	N/P	N/P	N/P	N/P	2,351	917	1,762	976	700	106	412	64	118	-108	N/P
938	53	208	73	179	87	145	18	21	35	71	408	150	352	156	145	19	23	37	66	200	0
939	50	411	149	194	133	789	149	259	196	185	462	175	218	136	789	152	263	205	169	51	0
940	50	427	173	347	134	1,215	234	619	114	248	531	225	431	152	1,215	239	631	118	227	104	0
941	50	448	165	397	162	28	10	9	4	5	571	220	506	188	28	10	8	4	6	123	0
942	50	803	267	375	287	N/P	N/P	N/P	N/P	N/P	768	267	359	250	719	22	137	455	105	-35	N/P
943	50	250	88	213	81	138	28	42	45	23	353	130	301	105	138	29	43	47	19	103	0
944	50	212	73	129	71	80	23	14	35	8	277	100	169	85	80	22	14	36	8	65	0
945	50	529	239	545	234	648	243	148	100	157	635	300	654	256	648	248	151	105	144	106	0
946	50	482	161	250	187	1,129	132	565	240	192	573	200	297	202	1,129	133	572	250	174	91	0
947	50	978	331	442	320	191	52	75	23	41	1,059	375	479	317	191	53	77	24	37	81	0
948	50	1,037	418	678	429	424	79	183	59	103	1,067	450	698	403	424	81	187	62	94	30	0
949	50	1,007	429	1,316	522	331	109	116	29	77	1,009	450	1,320	478	331	112	118	30	71	2	0
950	50	565	238	391	243	N/P	N/P	N/P	N/P	N/P	567	250	393	222	75	16	23	18	18	2	N/P
951	50	367	131	204	132	N/P	N/P	N/P	N/P	N/P	415	155	231	136	280	116	36	58	70	48	N/P
952	50	78	26	95	20	978	267	245	193	273	75	26	91	17	978	273	250	205	250	-3	0
953	50	9	3	9	4	N/P	N/P	N/P	N/P	N/P	29	10	29	11	97	30	44	4	19	20	N/P
954	50	467	146	219	164	276	39	87	96	54	535	175	252	172	276	40	88	100	48	68	0
955	50	140	48	110	36	263	107	112	13	31	209	75	165	49	263	109	113	13	28	69	0
956	51	66	24	74	25	N/P	N/P	N/P	N/P	N/P	132	50	147	45	176	4	38	5	129	66	N/P
957	51	467	171	282	184	184	53	46	8	77	653	250	394	235	210	62	57	10	81	186	26
958	51	781	294	628	386	236	72	50	31	83	1,397	550	1,124	630	236	74	51	34	77	616	0
959	51	816	305	501	429	370	116	105	44	105	1,279	500	785	613	370	119	108	47	96	463	0
960	53	204	88	285	127	141	38	46	23	34	886	400	1,239	503	141	39	47	24	31	682	0
961	53	166	65	114	92	N/P	N/P	N/P	N/P	N/P	732	300	503	371	24	4	7	5	8	566	N/P
962	53	294	108	346	155	28	4	7	10	7	911	350	1,072	438	28	4	7	10	7	617	0

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Suffolk: 2015 and 2045 TAZ Data

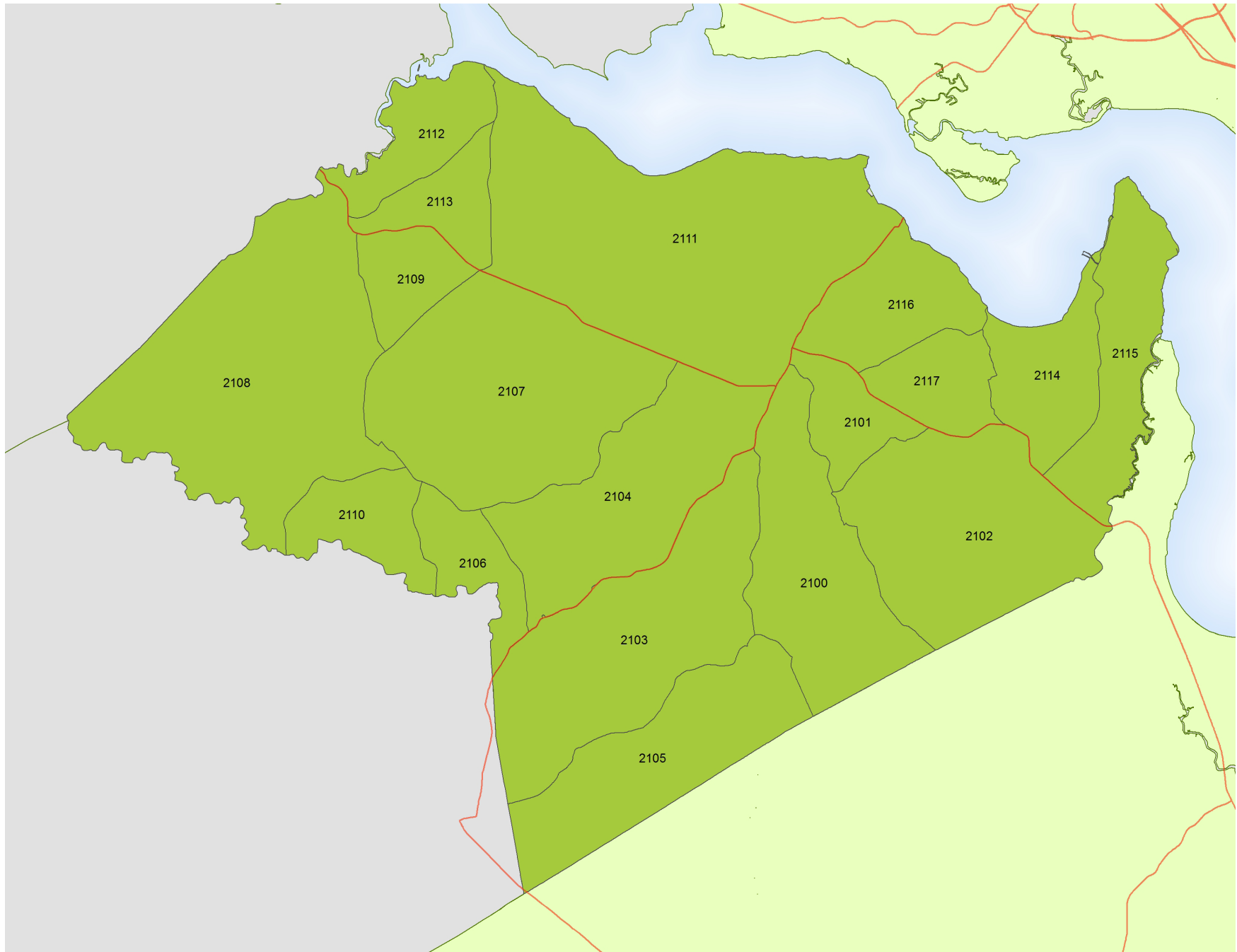
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
963	53	699	236	701	319	161	83	34	16	28	1,699	600	1,705	707	161	84	34	17	26	1,000	0
964	54	222	82	246	88	4	3	1	0	0	311	120	344	113	4	3	1	0	0	89	0
965	54	252	91	262	111	N/P	N/P	N/P	N/P	N/P	317	120	330	127	5	0	0	2	3	65	N/P
966	54	264	102	263	121	N/P	N/P	N/P	N/P	N/P	297	120	296	124	5	5	0	0	0	33	N/P
967	54	309	108	308	120	N/P	N/P	N/P	N/P	N/P	328	120	327	116	14	1	4	0	9	19	N/P
968	54	402	148	419	185	47	17	9	11	10	519	200	541	218	47	17	9	11	10	117	0
969	54	22	10	31	14	N/P	N/P	N/P	N/P	N/P	105	50	148	61	5	0	0	5	0	83	N/P
970	54	229	85	226	99	N/P	N/P	N/P	N/P	N/P	309	120	305	122	5	1	1	1	2	80	N/P
971	54	575	199	578	234	12	0	1	11	0	621	225	626	231	12	0	1	11	0	46	0
972	54	338	127	359	157	N/P	N/P	N/P	N/P	N/P	445	175	473	188	60	9	9	31	11	107	N/P
973	54	365	118	332	142	N/P	N/P	N/P	N/P	N/P	444	150	404	158	5	0	1	4	0	79	N/P
974	54	143	45	93	54	N/P	N/P	N/P	N/P	N/P	243	80	158	84	5	4	1	0	0	100	N/P
975	54	190	60	176	75	N/P	N/P	N/P	N/P	N/P	379	125	351	136	5	0	0	3	2	189	N/P
976	54	974	356	1,083	432	130	10	26	21	73	1,308	500	1,455	529	130	11	28	23	68	334	0
977	54	319	125	347	147	N/P	N/P	N/P	N/P	N/P	366	150	398	154	10	3	3	1	3	47	N/P
978	54	624	235	539	247	N/P	N/P	N/P	N/P	N/P	762	300	658	275	29	5	5	14	5	138	N/P
979	54	781	281	808	367	43	14	6	7	16	1,063	400	1,100	455	43	15	7	7	14	282	0
980	54	364	145	320	181	N/P	N/P	N/P	N/P	N/P	432	180	380	196	1,647	545	302	45	755	68	N/P
981	54	188	70	233	95	N/P	N/P	N/P	N/P	N/P	321	125	398	148	4	2	1	0	1	133	N/P
982	54	297	111	280	147	N/P	N/P	N/P	N/P	N/P	397	155	374	179	11	2	3	6	0	100	N/P
983	54	562	195	518	281	190	22	43	108	17	593	215	546	270	190	22	43	110	15	31	0
984	54	587	210	598	236	250	41	54	31	124	735	275	749	270	250	43	57	34	116	148	0
985	54	263	87	239	110	62	9	4	40	9	347	120	316	133	62	9	4	41	8	84	0
986	54	1,578	597	2,101	745	385	112	103	75	95	2,527	1,000	3,365	1,089	385	115	104	79	87	949	0
987	52	496	178	386	214	N/P	N/P	N/P	N/P	N/P	2,397	900	1,867	944	15	5	4	3	3	1,901	N/P
988	52	508	213	498	235	N/P	N/P	N/P	N/P	N/P	616	270	604	260	39	10	16	5	8	108	N/P
989	54	288	97	331	124	23	8	8	3	4	425	150	490	167	23	9	8	3	3	137	0
990	54	165	61	175	75	N/P	N/P	N/P	N/P	N/P	258	100	275	107	18	3	5	7	3	93	N/P
991	54	678	239	875	271	84	30	21	9	24	746	275	963	272	84	31	22	9	22	68	0
992	54	169	58	202	74	N/P	N/P	N/P	N/P	N/P	209	75	250	84	8	3	1	1	3	40	N/P
993	52	1,601	572	1,477	747	393	117	99	54	123	2,140	800	1,976	911	393	120	104	56	113	539	0
994	52	1,208	413	1,024	525	385	146	111	53	75	1,398	500	1,186	555	385	148	114	55	68	190	0
995	53	807	313	792	425	47	9	24	6	8	1,725	700	1,694	829	47	9	24	6	8	918	0
996	53	1,037	408	933	529	156	41	27	42	46	1,336	550	1,203	622	156	42	28	44	42	299	0
997	53	1,705	607	1,295	837	28	2	13	6	7	2,549	949	1,937	1,142	28	2	13	6	7	844	0
998	53	94	30	62	39	276	133	83	21	39	2,696	900	1,779	1,021	276	134	83	24	35	2,602	0
999	53	2,330	710	1,259	1,032	1,078	482	380	103	113	2,227	710	1,204	900	1,200	542	426	118	114	-103	122
1000	53	148	55	106	76	330	66	87	23	154	1,286	500	922	603	900	192	248	68	392	1,138	570
1001	53	1700	640	1598	1079	330	81	95	93	61	2,031	800	1,911	1177	330	82	97	97	54	331	0
1002	53	0	0	0	0	675	215	205	94	161	270	100	231	108	675	219	211	98	147	270	0
1003	53	1700	640	1598	1079	1594	261	836	227	270	2,031	800	1,911	1177	1,594	263	848	240	243	331	0
1004	54	222	82	248	94	34	5	12	12	5	388	150	434	150	34	5	12	12	5	166	0
1005	51	3,430	1,181	2,120	1,555	2,219	335	849	615	420	4,438	1,600	2,747	1,838	2,219	339	858	638	384	1,008	0
1006	51	905	350	827	401	176	43	76	37	20	1,236	500	1,130	500	176	42	77	39	18	331	0
1007	51	2721	938	1621	1324	893	274	375	55	189	3,328	1,200	1,984	1,475	883	277	380	56	170	607	-10
1008	51	989	338	608	477	532	166	126	109	131	1118	400	689	492	532	169	128	116	119	129	0
1009	51	71	30	62	34	N/P	N/P	N/P	N/P	N/P	679	300	593	297	500	41	105	62	292	608	N/P
1010	51	72	24	44	29	N/P	N/P	N/P	N/P	N/P	860	300	526	317	8	0	4	2	2	788	N/P
1011	51	446	163	361	216	39	1	24	3	11	785	300	635	347	39	1	25	3	10	339	0
1012	51	303	114	279	140	N/P	N/P	N/P	N/P	N/P	1,779	700	1,639	750	350	34	71	213	32	1,476	N/P
1013	51	614	192	353	263	611	150	173	62	226	734	240	422	287	800	204	234	88	274	120	189
1014	54	458	151	280	185	44	17	9	11	7	870	300	532	321	44	17	9	11	7	412	0
Total		90,426	30,990	70,964	40,414	39,549	9,576	13,871	7,466	8,636	129,682	46,667	104,151	53,220	45,789	11,456	15,911	8,852	9,570	39,256	6240

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Surry



Surry: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
2100	201	295	110	425	169	10	2	4	2	2	318	118	441	149	11	3	4	2	2	23	1
2101	201	312	127	164	179	462	32	163	172	95	339	137	171	159	524	38	183	200	103	27	62
2102	201	466	175	417	241	16	4	3	3	6	504	188	434	232	18	5	3	3	7	38	2
2103	201	668	256	598	310	165	10	36	96	23	722	275	622	274	187	12	39	111	25	54	22
2104	201	526	200	616	236	262	38	42	108	74	568	215	641	209	299	45	46	128	80	42	37
2105	201	186	73	191	79	N/P	N/P	N/P	N/P	N/P	200	78	197	69	10	0	2	4	4	14	N/P
2106	201	62	27	122	25	N/P	N/P	N/P	N/P	N/P	67	29	127	28	8	2	2	3	1	5	N/P
2107	201	353	141	209	173	7	2	2	1	2	383	152	218	153	8	2	2	2	2	30	1
2108	201	386	146	490	161	N/P	N/P	N/P	N/P	N/P	417	157	510	194	28	2	1	21	4	31	N/P
2109	201	137	48	115	68	N/P	N/P	N/P	N/P	N/P	149	52	145	51	3	1	1	0	1	12	N/P
2110	201	137	43	114	50	N/P	N/P	N/P	N/P	N/P	148	46	118	44	8	0	0	8	0	11	N/P
2111	200	1,489	640	1,559	645	182	29	53	55	45	1,608	687	1,622	848	207	34	58	66	49	119	25
2112	200	187	77	106	76	N/P	N/P	N/P	N/P	N/P	203	83	110	67	8	0	1	0	7	16	N/P
2113	200	151	51	249	58	N/P	N/P	N/P	N/P	N/P	164	55	260	52	3	1	1	0	1	13	N/P
2114	200	184	79	184	99	54	15	14	0	25	199	85	237	83	61	19	15	0	27	15	7
2115	200	413	141	366	181	1,729	248	362	951	168	448	152	382	160	1,963	294	399	1,087	184	35	234
2116	200	491	193	954	213	243	68	76	35	64	530	207	990	188	276	81	84	41	70	39	33
2117	200	376	141	410	166	81	16	33	16	16	407	152	428	147	92	19	36	20	17	31	11
Total		6,819	2,668	7,289	3,129	3,272	470	796	1,469	537	7,374	2,868	7,653	3,107	3,714	558	877	1,696	584	555	442

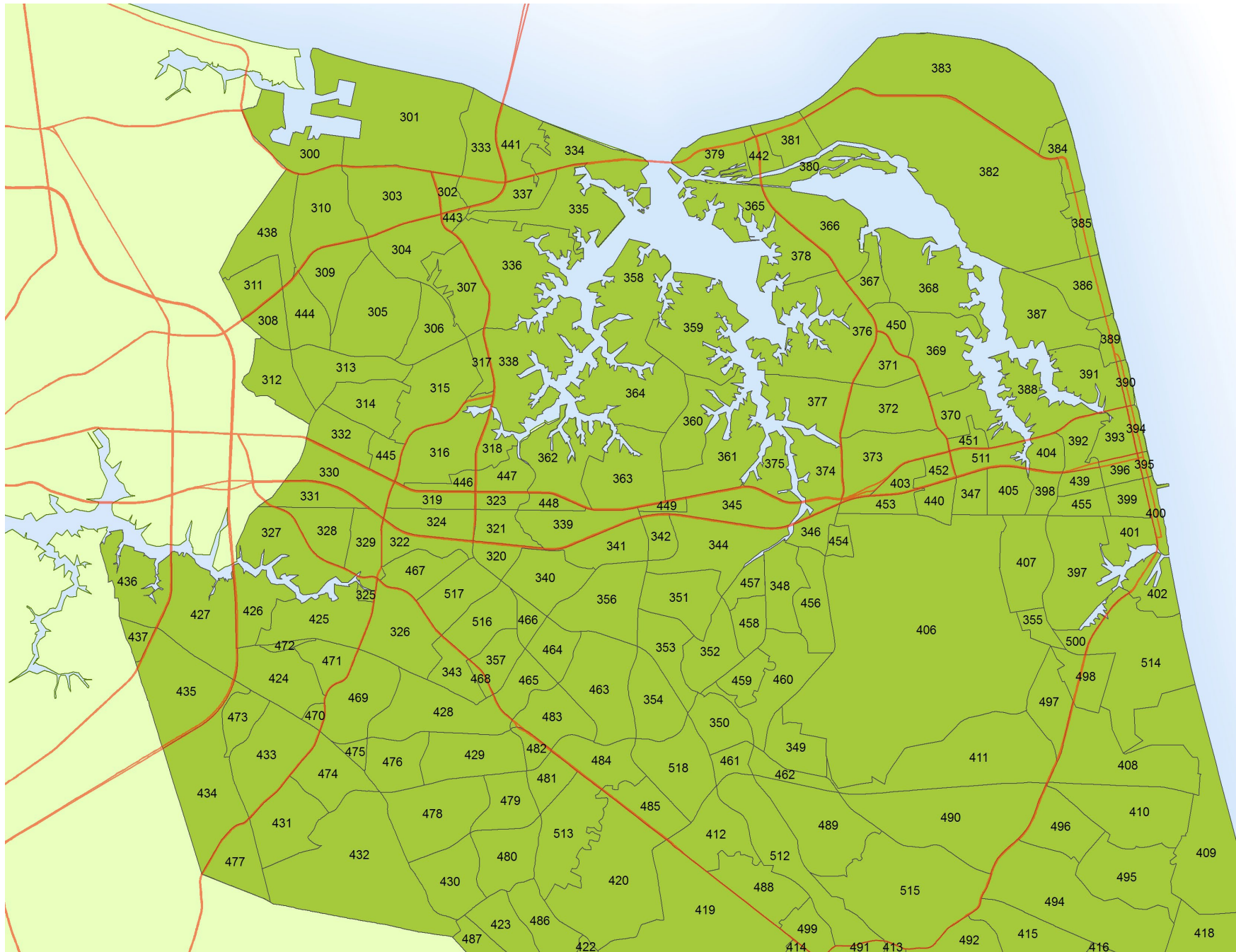
*Note: Surry County is not included in the Hampton Roads Modeling Area.

TAZs were renumbered as part of the 2015 model update.

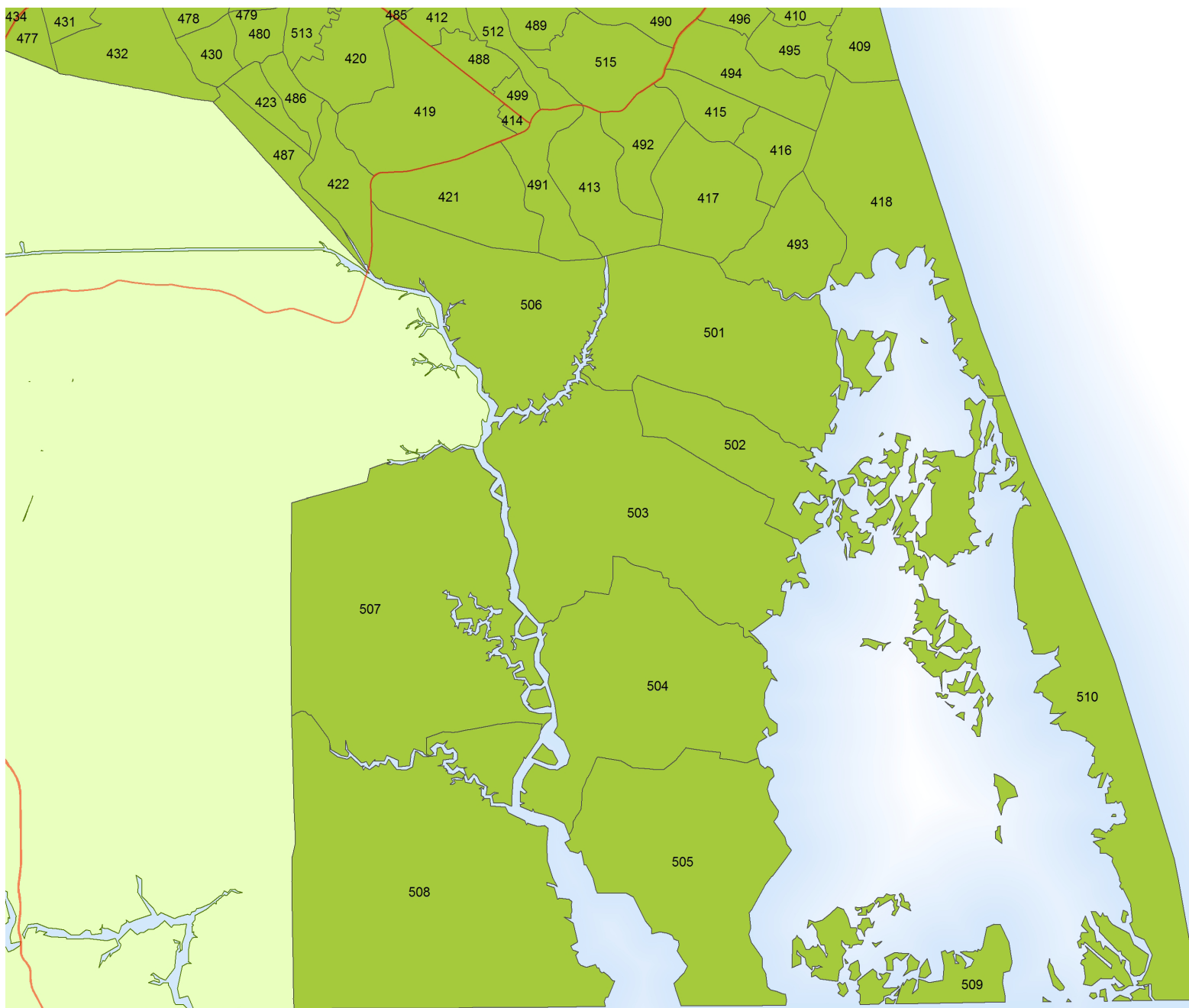
Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Virginia Beach - Northern Portion



Virginia Beach - Southern portion



Virginia Beach: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
300	60	0	0	0	0	7,110	1,696	3,089	1,391	934	0	0	0	0	8,595	185	4,998	676	2,736	0	1,485
301	60	4,101	373	931	346	10,678	1,997	5,083	1,746	1,852	3,818	350	857	306	13,047	281	8,292	1,036	3,438	-283	2,369
302	60	1,053	281	427	225	N/P	N/P	N/P	N/P	N/P	930	250	372	188	120	49	71	0	0	-123	N/P
303	61	1,724	710	1,708	969	210	99	62	15	34	1,831	760	1,792	976	220	59	51	38	72	107	10
304	61	1,409	639	1,171	696	310	69	112	86	43	1,520	695	1,249	712	437	32	207	118	80	111	127
305	61	3,852	1,702	3,756	1,730	300	102	45	9	144	4,491	2,000	4,327	1,913	220	85	81	12	42	639	-80
306	61	1,262	577	1,173	503	420	17	129	49	225	1,248	575	1,146	471	742	29	244	63	406	-14	322
307	61	1,789	769	2,460	834	797	177	290	164	166	1,731	750	2,352	765	560	110	233	71	146	-58	-237
308	61	521	211	591	179	868	86	155	319	308	735	300	823	240	516	83	190	125	118	214	-352
309	61	585	212	716	259	298	92	118	34	54	1,712	625	2,069	719	120	22	56	14	28	1,127	-178
310	61	3,620	1,607	2,889	1,684	1,056	369	171	435	81	4,024	1,800	3,172	1,775	351	38	190	38	85	404	-705
311	61	599	248	333	276	390	65	81	188	56	1,246	520	684	545	600	291	183	56	70	647	210
312	61	4,027	1,179	2,605	1,360	346	69	144	29	104	4,406	1,300	2,815	1,412	400	45	195	45	115	379	54
313	61	7,289	3,075	12,069	3,598	1,213	410	385	115	303	6,468	2,750	10,580	3,028	899	268	324	66	241	-821	-314
314	61	3,374	1,222	2,356	1,710	1,056	369	171	435	81	2,425	885	1,672	1,165	750	16	237	58	439	-949	-306
315	61	4,887	1,740	3,516	2,407	470	124	155	90	101	5,156	1,850	3,664	2,408	891	57	512	145	177	269	421
316	61	5,540	1,911	3,432	2,508	924	214	291	134	285	5,753	2,000	3,521	2,470	851	216	229	92	314	213	-73
317	61	1,467	648	1,727	820	1,146	120	493	10	523	1,461	650	1,698	774	1,150	402	352	41	355	-6	4
318	61	1,156	433	766	608	257	7	233	5	12	1,218	460	798	608	64	0	26	10	28	62	-193
319	61	32	12	20	9	2,406	832	769	539	266	11,907	4,500	7,352	3,176	3,000	1,574	685	296	445	11,875	594
320	66	465	179	205	244	3,246	780	1,138	628	700	181	70	78	89	3,700	293	1,630	724	1,053	-284	454
321	62	1,466	787	1,925	625	1,838	131	1,393	58	256	2,680	1,450	3,477	1,084	2,500	456	1,718	0	326	1,214	662
322	67	761	293	475	406	1,282	190	672	111	309	4,824	1,872	2,975	2,441	1,500	249	790	79	382	4,063	218
323	62	1,014	588	2,089	528	4,239	1,079	2,288	247	625	4,620	2,700	9,403	2,281	5,400	1,730	2,980	0	690	3,606	1,161
324	61	2,075	841	1,834	1,008	1,897	286	603	736	272	10,434	4,262	9,110	4,807	2,700	1,341	948	83	328	8,359	803
325	67	149	60	192	95	129	15	16	9	89	370	150	471	224	1,000	216	353	51	380	221	871
326	67	2,486	879	1,912	1,391	769	165	163	45	396	2,525	900	1,919	1,340	1,100	60	354	59	627	39	331
327	67	4,752	1,648	3,625	2,345	1,132	164	211	76	681	6,295	2,200	4,743	2,945	2,500	648	798	522	532	1,543	1,368
328	67	2,308	831	1,647	1,244	376	73	109	46	148	3,445	1,250	2,428	1,761	2,050	1,013	190	133	714	1,137	1,674
329	67	1,030	410	857	601	473	75	285	52	61	872	350	718	483	995	109	604	132	150	-158	522
330	61	705	328	516	277	4,365	1,047	1,951	610	757	1,067	500	771	397	6,500	1,445	2,426	867	1,762	362	2,135
331	67	4	2	11	2	6,790	1,100	2,816	262	2,612	992	500	1,320	471	6,900	1,102	3,658	486	1,654	988	110
332	61	2,835	1,178	1,369	1,220	1,300	634	294	215	157	3,725	1,560	1,777	1,521	1,900	433	623	575	269	890	600
333	60	3,461	1,735	3,222	2,079	883	368	260	108	147	3,563	1,800	3,277	2,030	836	373	268	66	129	102	-47
334	60	3,476	1,581	2,624	2,023	421	88	143	91	99	4,581	2,100	3,416	2,529	499	162	165	80	92	1,105	78
335	61	1,312	433	1,176	603	196	72	46	20	58	1,714	570	1,517	747	200	22	119	19	40	402	4
336	61	3,945	1,474	3,170	1,917	689	165	181	103	240	3,797	1,430	3,014	1,750	650	109	262	30	249	-148	-39
337	60	760	318	562	380	231	70	52	33	76	783	330	571	371	351	81	84	67	119	23	120
338	61	3,305	1,329	2,740	1,709	2,790	953	863	19	955	3,331	1,350	2,728	1,634	3,000	509	1,366	282	843	26	210
339	62	5,085	2,235	4,280	2,891	1,393	547	443	180	223	6,208	2,750	5,162	3,347	1,900	387	559	387	567	1,123	507
340	66	2,230	804	1,801	1,233	1,757	285	736	31	705	2,312	840	1,845	1,212	1,500	277	769	40	414	82	-257
341	66	1,174	425	948	649	586	98	300	100	88	2,741	1,000	2,187	1,437	2,000	397	1,172	346	85	1,567	1,414
342	66	1,600	492	1,038	700	192	60	49	24	59	1,904	590	1,220	790	287	55	115	71	46	304	95
343	67	2,378	849	1,733	1,260	143	37	50	26	30	2,501	900	1,801	1,257	101	32	47	9	13	123	-42
344	66	6,227	2,462	4,115	3,477	1,489	217	812	113	347	8,031	3,200	5,242	4,252	2,000	197	1,194	173	436	1,804	511
345	62	1,705	727	952	718	1,841	295	1,133	90	323	2,095	900	1,156	837	7,500	3,053	3,137	560	750	390	5,659
346	63	893	305	674	547	195	64	58	24	49	828	285	618	481	305	33	106	82	84	-65	110
347	63	1,492	578	1,442	700	286	61	33	93	99	1,216	475	1,162	541	435	57	122	191	65	-276	149
348	66	0	0	0	0	7,007	676	3,298	2,668	365	0	0	0	0	5,717	156	1,329	3,386	846	0	-1,290
349	66	0	0	0	0	1,044	193	177	564	110	0	0	0	0	1,074	0	203	772	99	0	30
350	66	4,096	1,525	3,071	1,749	1,050	121	431	362	136	4,264	1,600	3,158	1,727	600	372	141	36	51	168	-450
351	66	2,742	972	2,045	1,481	466	215	166	25	60	2,799	1,000	2,062	1,434	552						

Virginia Beach: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
363	62	4,860	1,822	3,575	2,440	1,728	417	793	204	314	7,543	2,850	5,482	3,592	3,200	1,097	1,258	276	569	2,683	1,472
364	62	3,718	1,425	3,181	1,971	212	27	69	23	93	3,625	1,400	3,063	1,822	225	0	63	58	104	-93	13
365	63	585	198	541	284	31	3	14	5	9	586	200	535	270	49	0	26	8	15	1	18
366	63	1,620	540	1,251	859	414	41	98	27	248	1,786	600	1,363	898	470	15	92	30	333	166	56
367	63	749	241	741	349	460	24	251	4	181	309	100	301	136	249	54	151	8	36	-440	-211
368	63	2068	762	1,735	1000	226	12	89	13	112	1885	700	1563	865	380	88	115	39	138	-183	154
369	63	1303	468	1,226	540	3672	651	916	44	2061	1381	500	1,284	543	3,672	153	1941	218	1360	78	0
370	63	2220	832	2185	935	193	66	82	11	34	1853	700	1802	741	193	4	168	13	8	-367	0
371	63	1,559	550	769	857	845	233	246	70	296	1,547	550	754	806	1,179	86	618	87	388	-12	334
372	63	3,495	1,488	2,475	1,978	735	42	116	25	552	3,496	1,500	2,446	1,876	1,208	21	752	111	324	1	473
373	63	5,921	2,485	4,287	2,984	2,012	940	574	184	314	5,911	2,500	4,228	2,825	2,930	1,431	853	211	435	-10	918
374	63	4,111	1,876	3,098	2,558	1,158	641	296	103	118	4,023	1,850	2,995	2,374	2,465	1,301	661	257	246	-88	1,307
375	62	861	358	641	418	270	80	124	35	31	859	360	632	395	830	520	281	19	10	-2	560
376	63	2,895	1,075	2,464	1,343	538	192	138	44	164	2,939	1,100	2,471	1,293	510	108	181	37	184	44	-28
377	63	1,555	574	1,284	868	80	17	28	21	14	1,452	540	1,184	769	46	0	20	21	5	-103	-34
378	63	730	257	901	279	153	20	41	6	86	564	200	687	204	320	0	74	22	224	-166	167
379	60	4,155	2,472	4,186	2,272	N/P	N/P	N/P	N/P	N/P	3,669	2,200	3,651	1,903	1,500	620	510	149	221	-486	N/P
380	60	949	367	987	504	81	9	23	34	15	1,026	400	1,055	517	58	0	27	19	12	77	-23
381	60	1,846	805	1,431	820	325	118	99	36	72	2,048	900	1,568	863	661	0	411	0	250	202	336
382	60	44	20	95	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	25	0	17	2	6	-44	N/P
383	60	1,474	420	949	934	2,566	556	1,030	318	662	697	200	443	419	2,960	122	924	903	1,011	-777	394
384	64	815	415	594	559	39	5	14	9	11	1,227	630	884	799	51	0	21	27	3	412	12
385	64	956	456	489	630	N/P	N/P	N/P	N/P	N/P	1,186	570	599	742	347	0	168	73	106	230	N/P
386	64	1,778	808	1,315	1,018	198	0	32	8	158	1,888	865	1,380	1,026	399	0	208	75	116	110	201
387	64	1,736	623	1,217	817	59	9	25	5	20	1,797	650	1,245	802	100	0	89	1	10	61	41
388	63	769	339	605	422	666	69	219	69	309	844	375	656	439	800	106	408	62	224	75	134
389	64	730	368	461	358	171	44	69	24	34	984	500	614	457	701	8	435	92	166	254	530
390	64	434	308	460	189	913	310	370	78	155	629	450	659	260	1,500	552	363	21	564	195	587
391	64	866	422	613	403	1,102	371	408	184	139	1,527	750	1,067	674	1,740	793	585	38	324	661	638
392	64	3,120	1,590	3,961	1,997	568	128	224	113	103	2,823	1,450	3,541	1,714	815	361	225	154	75	-297	247
393	64	1,567	826	2,031	1,021	1,795	362	656	15	762	2,033	1,080	2,604	1,256	1,720	970	414	42	294	466	-75
394	64	28	15	22	20	1,226	530	356	106	234	64	35	50	44	2,500	1,407	162	21	910	36	1,274
395	64	6	4	17	6	531	241	143	45	102	8	5	21	8	1,560	795	89	9	667	2	1,029
396	64	764	389	403	489	1,143	272	545	130	196	1,581	811	823	959	1,450	879	311	39	221	817	307
397	64	2,706	1,299	1,956	1,445	289	46	117	45	81	2,849	1,378	2,034	1,443	709	96	293	144	176	143	420
398	64	784	266	226	307	110	15	34	6	55	877	300	250	326	499	56	226	81	136	93	389
399	64	1,632	737	928	925	678	145	47	71	415	1,978	900	1,111	1,063	651	317	121	35	178	346	-27
400	64	228	104	226	120	1,439	548	487	123	281	544	250	532	271	2,200	1,447	147	31	575	316	761
401	64	2,147	975	1,640	1,137	305	83	82	68	72	2,512	1,150	1,896	1,262	563	259	125	112	67	365	258
402	64	1,498	647	1,102	776	76	25	23	11	17	1,654	720	1,202	813	156	65	53	14	24	156	80
403	63	982	403	396	488	484	236	122	57	69	1,006	416	401	474	980	470	289	76	145	24	496
404	64	2,357	1,198	4,164	1,223	323	64	141	63	55	2,440	1,250	4,259	1,201	508	181	228	36	63	83	185
405	63	1,619	679	1,858	743	223	56	59	62	46	1,124	475	1,274	489	501	60	160	187	94	-495	278
406	66	2,809	34	1,471	307	8,767	2,148	3,128	2,663	828	6,148	75	3,181	637	12,485	544	4,416	5,092	2,433	3,339	3,718
407	64	281	112	233	178	513	156	116	136	105	124	50	102	74	747	11	249	344	143	-157	234
408	65	1,223	668	1,127	828	828	274	252	69	233	863	475	785	554	552	135	200	71	146	-360	-276
409	65	1,652	13	1,138	105	4,124	652	1,805	801	866	6,305	50	4,291	380	4,625	216	2,366	553	1,490	4,653	501
410	65	5,242	1,841	3,052	2,709	443	59	101	71	212	5,651	2,000	3,251	2,769	247	0	58	11	178	409	-196
411	65	4,398	1,571	2,370	2,230	881	177	196	190	318	4,305	1,550	2,292	2,070	1,325	274	312	284	455	-93	444
412	65	2,808	866	2,023	1,737	3,042	786	877	602	777	3,024	940	2,153	1,774	1,311	745	160	321	85	216	-1,731
413	65	2,378	791	1,865	1,286	455	75	146	56	178	2,535	850	1,964	1,300	315	0	53	116	146	157	-140
414	65	1,315	0	0	0	6,206	1,299	2,701	4	2,202	0	0	0	0	4,175	43	2,493	274	1,365	-1,315	-2,031
415	65	2757	906	2,209	1577	1,264	588	292	87	297	2,415	800	1,912	1,310	1,264	733	312	75	144	-342	0
416	65	2,277	749	1,825	1,302	26	6	20	0	0	2,715	900	2,150	1,472	26	3	13	2	8	438	0
417	65	796	227	963	382	413	162	120	49	82	870	250	1,040	396	328	162	60	19	87	74	-85
418	65	1,569	615	1,308	971	276	90	134	51	1	2,152	850	1,772	1,263	376	162	140	26	48	583	100
419	65	2,136	231	613	140	4,617	1,044	1,548	15	2,010	3,211	350	911	199	1,750	292	573	187	698	1,075	-2,867
420	65	1,349	384	1,118	647	1,191	112	277	34	768	1,743	500	1,427	792	1,300	39	284	30	947	394	109
421	65	6,157	2,208	5,199	3,684	494	9	73	63	349	4,842	1,750	4,040	2,748	141	0	33	26	82	-1,315	-353
422	65	138	56	98	29	26	3	4	15	4	184	75	128	37	150	0	80	23	47	46	124
423	66	1,166	344	864	645	69	11	23	22	13	1,513	450	1,108	794	150	0	25	79	46	347	81
424	67	3,505	1,191	2,613	1,981	796	251	309	60	176	3,504	1,200	2,581	1,878	850	269	328	71	182	-1	54
425	67	3,188	1,212	2,781	1,805	1,157	353	396	124	284	3,392	1,300	2,924	1,822	1,091	239	373	128	351	204	-66

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Virginia Beach: 2015 and 2045 TAZ Data

TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
426	67	1,325	448	1,249	795	93	27	19	15	32	1,321	450	1,230	752	149	0	53	90	6	-4	56
427	67	2,638	965	2,228	1,525	1,481	423	454	270	334	3,255	1,200	2,716	1,784	1,403	168	485	361	389	617	-78
428	67	4,240	1,459	3,508	2,455	239	55	60	39	85	4,239	1,470	3,464	2,328	401	24	114	18	245	-1	162
429	67	5,807	1,856	3,672	3,462	588	123	107	58	300	5,743	1,850	3,588	3,247	140	0	66	31	43	-64	-448
430	67	3,377	1,000	2,450	1,818	232	17	59	11	145	3,686	1,100	2,642	1,882	140	0	39	9	92	309	-92
431	67	3,592	1,201	3,003	2,331	495	129	62	21	283	3,384	1,140	2,794	2,082	677	323	150	61	143	-208	182
432	67	6,459	2,130	5,357	3,993	149	30	50	14	55	5,118	1,701	4,194	3,001	146	0	82	24	40	-1,341	-3
433	67	4,977	1,688	4,351	2,945	1,644	336	670	233	405	5,851	2,000	5,053	3,283	1,401	326	393	316	366	874	-243
434	67	1,893	805	1,474	780	N/P	N/P	N/P	N/P	N/P	2,357	1,010	1,812	921	570	108	201	66	195	464	N/P
435	67	8,097	3,156	4,782	4,220	1,849	655	625	208	361	8,197	3,220	4,783	4,052	2,051	431	979	218	423	100	202
436	67	2,132	850	1,802	1,051	422	80	118	80	144	2,489	1,000	2,078	1,163	836	164	294	191	187	357	414
437	67	565	211	388	295	866	45	560	235	26	664	250	451	329	799	162	455	161	21	99	-67
438	61	299	130	170	145	5,007	659	949	2,953	446	237	104	133	109	6,000	373	2,170	2,870	587	-62	993
439	64	388	201	538	249	412	96	158	59	99	199	104	273	121	848	216	429	38	165	-189	436
440	63	722	273	496	418	520	109	89	190	132	819	312	556	450	947	133	367	308	139	97	427
441	60	1,634	802	1,222	978	299	71	81	42	105	1,769	875	1,307	1,004	350	135	120	13	82	135	51
442	60	1,281	641	657	780	818	317	227	101	173	1,140	575	577	659	1,196	849	161	46	140	-141	378
443	61	12	3	15	4	283	52	105	47	79	119	30	147	38	300	54	107	27	112	107	17
444	61	2,726	956	1,772	1,331	1,237	441	89	179	528	2,688	950	1,726	1,245	640	58	163	214	205	-38	-597
445	61	1,902	703	951	823	319	129	69	71	50	2,234	832	1,104	917	535	140	184	113	98	332	216
446	61	771	315	431	366	1,435	216	420	77	722	2,273	936	1,256	1,024	2,175	773	667	64	671	1,502	740
447	61	211	81	236	128	4,540	1,429	2,056	201	854	1,076	416	1,188	618	5,100	1,572	2,595	223	710	865	560
448	62	716	335	398	344	737	315	207	97	118	848	400	466	387	1,275	796	287	83	109	132	538
449	62	0	0	0	0	2,873	727	1,276	88	782	0	0	0	1,775	1,018	622	74	61	0	0	-1,098
450	63	1,011	484	771	500	881	417	244	64	156	1,005	485	758	471	825	373	226	62	164	-6	-56
451	63	98	33	102	44	895	417	298	69	111	118	40	122	50	1,150	587	451	1	111	20	255
452	63	1,174	625	1,555	596	884	359	60	140	325	1,305	700	1,708	629	1,175	598	374	38	165	131	291
453	63	42	19	44	26	35	5	7	10	13	110	50	114	64	240	0	102	97	41	68	205
454	63	449	180	274	267	40	13	6	17	4	371	150	223	210	83	0	66	0	17	-78	43
455	64	2,588	936	2,031	978	274	110	93	29	42	3,429	1,250	2,658	1,229	750	421	241	0	88	841	476
456	66	266	95	272	138	2,768	542	614	1,221	391	208	75	211	103	4,140	1,329	914	1,425	472	-58	1,372
457	66	0	0	0	0	6,386	1,643	2,855	1,145	743	0	0	0	0	5,404	1,172	3,043	252	937	0	-982
458	66	0	0	0	0	4,104	2,290	1,183	232	399	0	0	0	0	4,368	2,918	929	191	330	0	264
459	66	2,349	708	1,675	1,305	238	78	60	27	73	2,304	700	1,623	1,214	301	54	110	38	99	-45	63
460	66	731	236	273	380	4,475	494	1,410	2,029	542	614	200	226	303	2,500	192	713	1,197	398	-117	-1,975
461	65	5	2	3	4	140	39	46	25	30	5	2	3	4	42	0	22	7	13	0	-98
462	65	6	3	30	4	311	111	55	101	44	6	3	29	4	203	0	50	118	35	0	-108
463	66	8,326	3,112	5,077	4,110	1,218	537	336	69	276	7,964	3,000	4,797	3,728	1,691	851	371	56	413	-362	473
464	66	2,257	787	2,060	1,236	238	146	45	21	26	2,988	1,050	2,694	1,552	295	48	232	0	15	731	57
465	66	3,128	1,248	2,192	1,966	858	51	744	25	38	1,865	750	1,291	1,111	300	54	224	6	16	-1,263	-558
466	66	1,699	754	2,093	928	1,683	223	710	39	711	1,900	850	2,312	984	820	216	417	55	132	201	-863
467	67	4,046	1,599	3,025	2,213	818	182	282	150	204	4,645	1,850	3,431	2,409	1,179	162	534	118	365	599	361
468	66	278	140	185	116	516	144	209	90	73	630	320	415	249	10	0	9	0	1	352	-506
469	67	3,159	1,103	2,718	1,939	476	137	166	62	111	3,410	1,200	2,899	1,986	448	108	170	71	99	251	-28
470	67	0	0	0	0	916	399	288	70	159	0	0	0	0	1,190	793	267	23	107	0	274
471	67	1,843	672	1,353	1,249	784	310	279	73	122	2,041	750	1,480	1,312	810	269	354	38	149	198	26
472	67	559	175	285	294	N/P	N/P	N/P	N/P	N/P	729	230	368	363	25	0	19	5	1	170	N/P
473	67	433	27	56	72	5,592	777	3,893	94	828	5,172	325	661	816	3,206	499	2,125	67	515	4,739	-2,386
474	67	2,992	1,059	2,666	1,851	370	128	107	45	90	2,944	1,050	2,591	1,727	600	318	151	47	84	-48	230
475	67	1,018	550	557	497	154	81	50	7	16	1,102	600	596	510	100	52	48	0	0	84	-54
476	67	5,855	2,095	3,583	3,295	262	116	72	39	35	5,823	2,100	3,521	3,108	254	70	120	22	42	-32	-8
477	67	3,815	1,190	2,572	2,202	459	103	161	42	153	4,453	1,400	2,966	2,438	200	43	60	7	90	638	-259
478	67	7,172	2,249	5,348	3,928	432	51	125	59	197	7,910	2,500	5,828	4,108	650	52	180	25	393	738	218
479	67	1,281	485	1,087	662	76	14	21	22	19	1,704	650	1,428	835	250	0	66	13	171	423	174
480	67	2,720	919	1,626	1,492	131	51	29	10	41	2,687	915	1,587	1,398	100	0	49	20	31	-33	-31
481	66	421	125	222	168	329	225	52	27	25	1,671	500	870	632	1,094	923	108	24	39	1,250	765
482	66	472	174	167	232	907	651	167	24	65	539	200	188	251	1,099	741	287	19	52	67	192
483	66	4,762	1,466	2,637	2,292	492	116	131	32	213	4,513	1,400	2,468	2,060	779	192	173	29	385	-249	287
484	66	4,086	1,555	3,071	2,349	797	428	207	63	99	4,693	1,800	3,485	2,559	919	447	249	64	159	607	122
485	66	124	43	55	70	9,610	1,466	5,562	523	2,059	518	181	227	278	2,466	101	600	184	1,581	394	-7,144
486	66	1,315	393	1,103	689	N/P	N/P	N/P	N/P	N/P	1,354	408	1,122	673	100	54	10	36	0	39	N/P
487	66	1,074	303	996	496	87	15	29	25	18	703	200	644	308	200	49	87	19	45	-371	113
488	65	1,518	460	1,099	770	147	5	32	4	106	1,473	450	1,054	709	315	0	84	5	226	-45	168

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Virginia Beach: 2015 and 2045 TAZ Data

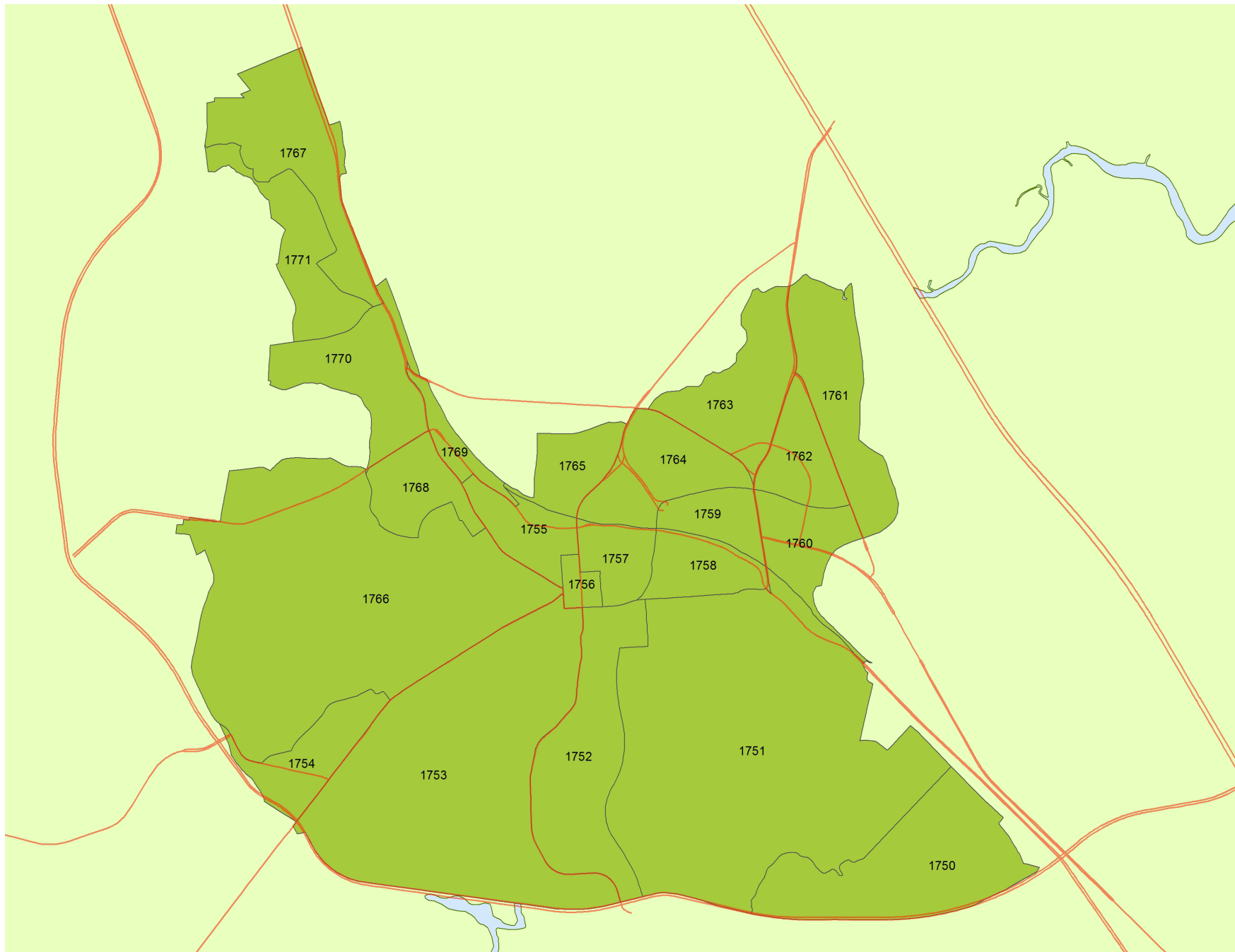
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
489	65	1,900	638	1,599	1,253	137	41	46	29	21	1,773	600	1,474	1,109	242	21	99	67	55	-127	105
490	65	2,218	792	1,706	1,201	3,399	525	1,957	189	728	1,667	600	1,266	856	1,500	409	1,008	65	18	-551	-1,899
491	65	85	42	104	32	4,978	725	3,076	234	943	351	175	424	125	400	58	180	52	110	266	-4,578
492	65	1,527	484	1,086	915	244	35	56	15	138	1,565	500	1,100	889	280	57	58	17	148	38	36
493	65	140	57	122	81	77	29	20	12	16	365	150	315	200	75	32	16	14	13	225	-2
494	65	6,199	2,018	4,807	3,213	3,447	1,099	1,352	109	887	4,755	1,560	3,643	2,337	1,262	1,067	95	75	25	-1,444	-2,185
495	65	1,236	385	920	700	198	9	39	9	141	1,274	400	937	684	169	0	40	0	129	38	-29
496	65	3,802	1,232	2,803	1,971	527	207	172	59	89	3,598	1,175	2,620	1,769	650	318	213	37	82	-204	123
497	65	285	122	144	174	132	102	27	0	3	394	170	197	228	350	28	136	48	138	109	218
498	65	627	264	460	119	363	57	92	27	187	589	250	427	106	250	46	51	5	148	-38	-113
499	65	801	251	409	380	1,685	297	623	289	476	1,029	325	520	463	1,350	142	264	41	903	228	-335
500	64	0	0	0	0	384	5	147	13	219	0	0	0	0	267	11	44	0	212	0	-117
501	68	685	252	658	445	250	80	90	35	45	1,079	400	1,023	664	269	81	70	71	47	394	19
502	68	414	154	456	274	51	11	11	12	17	534	200	580	335	27	16	4	7	0	120	-24
503	68	1,049	368	1,283	669	140	23	24	53	40	990	350	1,196	598	248	6	49	154	39	-59	108
504	68	903	318	1,192	539	305	146	42	83	34	1,127	400	1,469	638	244	27	47	95	75	224	-61
505	68	789	281	894	498	186	50	63	26	47	835	300	935	501	74	27	13	23	11	46	-112
506	68	565	172	748	225	369	95	76	118	80	391	120	512	148	52	0	4	48	0	-174	-317
507	68	693	240	686	329	75	7	20	26	22	659	230	644	296	29	0	3	25	1	-34	-46
508	68	564	214	684	284	41	8	9	12	12	549	210	658	263	73	5	13	48	7	-15	32
509	68	58	23	85	36	N/P	N/P	N/P	N/P	N/P	63	25	90	37	1	0	1	0	0	5	N/P
510	65	1	1	0	0	N/P	N/P	N/P	N/P	N/P	0	0	0	0	4	0	4	0	0	-1	N/P
511	63	1,237	585	623	620	1,132	415	364	166	187	1,312	625	653	623	1,475	592	510	151	222	75	343
512	65	3,765	1,160	2,648	1,793	427	70	87	216	54	3,382	1,050	2,350	1,527	150	16	33	88	13	-383	-277
513	66	7,758	2,388	5,005	3,974	447	142	106	53	146	8,217	2,550	5,241	3,993	800	216	213	82	289	459	353
514	65	2,252	561	689	500	N/P	N/P	N/P	N/P	N/P	2,310	580	698	487	78	0	21	44	13	58	N/P
515	65	7,430	2,373	5,504	3,953	2,507	222	1,285	233	767	6,680	2,150	4,889	3,371	827	374	205	81	167	-750	-1,680
516	67	1,747	669	1,421	1,022	949	154	390	75	330	1,944	750	1,562	1,078	900	110	432	59	299	197	-49
517	67	1,927	927	1,500	925	284	28	201	21	34	1,856	900	1,427	845	700	242	401	6	51	-71	416
518	66	5,408	1,615	2,928	2,435	706	306	125	226	49	3,654	1,100	1,955	1,561	699	143	166	315	75	-1,754	-7
Total		453,500	166,242	349,117	233,647	254,958	60,213	98,956	36,670	59,119	518,777	190,268	394,534	245,425	271,307	65,958	105,289	37,579	62,481	65,277	16,349

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Williamsburg



Williamsburg: 2015 and 2045 TAZ Data

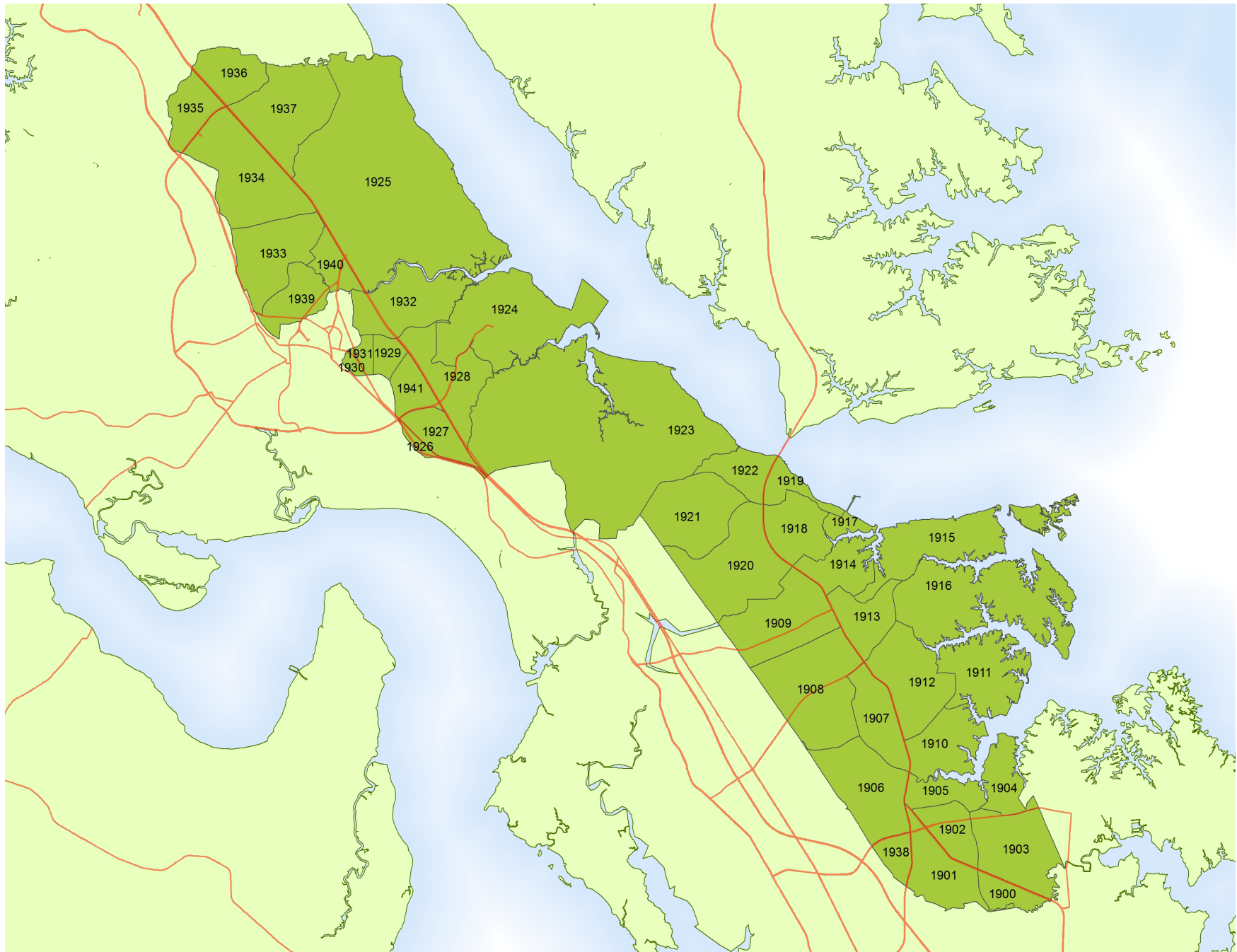
TAZ	District	2015 Population	2015 Households	2015 Vehicles	2015 Workers	2015 Employment	2015 Employment Type				2045 Population	2045 Households	2045 Vehicles	2045 Workers	2045 Employment	2045 Employment Type				Change Pop.	Change Emp.
							Retail	Office	Industrial	Other						Retail	Office	Industrial	Other		
1750	140	0	0	0	0	199	119	51	6	23	1,262	418	1,082	777	1,196	166	535	153	342	1,262	997
1751	140	346	134	378	88	278	84	75	34	85	618	239	738	170	684	12	229	44	399	272	406
1752	140	252	0	0	0	2,393	32	347	931	1,083	181	60	156	112	171	16	28	29	98	-71	-2,222
1753	140	2,640	1,101	6,466	955	537	98	147	119	173	1,864	776	4,996	729	2,222	104	617	285	1,216	-776	1,685
1754	140	355	151	408	87	248	70	112	16	50	245	104	308	65	1,026	90	525	83	328	-110	778
1755	140	642	225	1,325	210	2,545	82	610	110	1,743	597	209	1,348	211	598	12	12	0	574	-45	-1,947
1756	140	113	17	30	12	1,892	793	557	175	367	1,592	239	462	183	684	390	194	0	100	1,479	-1,208
1757	140	70	13	17	23	N/P	N/P	N/P	N/P	N/P	324	60	85	115	171	28	42	18	83	254	N/P
1758	140	95	42	67	27	N/P	N/P	N/P	N/P	N/P	81	36	62	25	103	33	5	11	54	-14	N/P
1759	140	162	77	273	40	N/P	N/P	N/P	N/P	N/P	158	75	291	42	214	71	88	13	42	-4	N/P
1760	140	481	199	483	154	224	100	63	25	36	579	239	635	200	684	331	274	47	32	98	460
1761	140	1,308	558	573	476	N/P	N/P	N/P	N/P	N/P	982	418	470	387	1,196	308	133	343	412	-326	N/P
1762	140	515	256	1,810	171	33	11	12	3	7	962	477	1,986	345	1,367	565	378	290	134	447	1,334
1763	140	99	41	182	20	132	39	43	13	37	433	179	871	94	513	254	118	67	74	334	381
1764	140	0	0	0	0	N/P	N/P	N/P	N/P	N/P	619	205	530	381	586	154	168	108	156	619	N/P
1765	140	374	136	348	92	N/P	N/P	N/P	N/P	N/P	328	119	334	88	342	121	23	47	151	-46	N/P
1766	140	3,971	97	1,325	2,356	518	174	115	14	215	2,459	60	898	1,577	171	96	75	0	0	-1,512	-347
1767	140	1,348	582	2,092	466	843	429	212	67	135	970	418	1,646	363	1,196	396	262	170	368	-378	353
1768	140	297	69	159	65	442	216	122	26	78	823	191	482	195	547	284	164	57	42	526	105
1769	140	163	64	109	26	165	54	72	11	28	760	298	556	131	855	411	251	98	95	597	690
1770	140	1,263	615	919	446	N/P	N/P	N/P	N/P	N/P	2,082	1,012	1,656	795	2,906	899	833	234	940	819	N/P
1771	140	366	161	356	70	N/P	N/P	N/P	N/P	N/P	422	185	448	87	529	15	28	22	464	56	N/P
Total		14,860	4,538	17,320	5,784	16,188	4,340	4,279	2,010	5,559	18,341	6,017	20,040	7,072	17,961	4,756	4,982	2,119	6,104	3,481	1,773

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

York



York: 2015 and 2045 TAZ Data

TAZ	District	2015	2015	2015	2015	2015	2015 Employment Type				2045	2045	2045	2045	2045	2045 Employment Type				Change Pop.	Change Emp.
		Population	Households	Vehicles	Workers	Employment	Retail	Office	Industrial	Other	Population	Households	Vehicles	Workers	Employment	Retail	Office	Industrial	Other		
1900	160	6,179	1,996	2,575	1,805	380	109	145	22	104	6,071	1,996	2,551	1,744	469	169	193	25	82	-108	89
1901	160	7,008	2,210	3,985	3,042	1,205	329	476	175	225	6,907	2,217	3,961	2,948	1,603	694	618	142	149	-101	398
1902	160	2,178	738	2,099	1,153	670	75	179	50	366	2,395	826	2,327	1,246	797	92	359	45	301	217	127
1903	160	7,018	2,311	6,038	4,114	168	47	64	24	33	7,161	2,400	6,213	4,127	230	78	92	20	40	143	62
1904	160	1,182	434	1,225	522	93	23	28	11	31	1,212	453	1,267	526	160	59	36	19	46	30	67
1905	160	1,597	521	1,569	792	427	81	142	65	139	1,919	637	1,900	935	435	80	146	60	149	322	8
1906	161	2,812	976	2,190	1,335	1,361	580	350	282	149	2,820	996	2,214	1,316	1,366	595	390	323	58	8	5
1907	161	2,017	907	1,373	1,064	702	186	224	65	227	2,152	985	1,477	1,117	755	219	269	31	236	135	53
1908	161	319	115	264	166	500	179	109	144	68	728	267	607	372	662	212	191	241	18	409	162
1909	161	2,831	1,161	2,690	1,507	303	48	79	66	110	3,739	1,561	3,584	1,957	434	146	128	45	115	908	131
1910	160	3,186	1,166	2,953	1,532	523	172	129	67	155	3,256	1,213	3,044	1,540	573	198	201	55	119	70	50
1911	160	2,373	820	2,590	1,043	98	18	23	37	20	2,479	872	2,729	1,071	161	45	48	40	28	106	63
1912	160	6,073	2,148	5,397	3,230	2,126	654	701	241	530	5,975	2,151	5,355	3,125	2,202	770	897	230	305	-98	76
1913	160	595	197	530	294	1,710	314	563	478	355	1,392	469	1,250	676	1,998	509	715	567	207	797	288
1914	160	1,890	680	1,714	866	306	34	93	21	158	1,868	684	1,708	841	427	71	209	28	119	-22	121
1915	160	1,021	368	1,116	460	323	94	37	102	90	1,003	368	1,106	444	150	40	22	42	46	-18	-173
1916	160	3,688	1,328	3,926	1,765	387	31	78	182	96	3,719	1,363	3,992	1,750	424	40	113	161	110	31	37
1917	162	375	1	0	7	N/P	N/P	N/P	N/P	N/P	368	1	0	7	1,450	40	195	332	883	-7	N/P
1918	162	4	3	26	3	N/P	N/P	N/P	N/P	N/P	4	3	26	3	0	0	0	0	0	0	N/P
1919	162	251	126	130	104	578	143	192	84	159	290	148	152	118	627	165	242	80	140	39	49
1920	162	42	13	37	16	N/P	N/P	N/P	N/P	N/P	44	14	40	16	2	2	0	0	0	2	N/P
1921	162	1,124	358	1,011	431	377	109	108	57	103	1,956	634	1,774	737	437	129	136	39	133	832	60
1922	162	1,441	548	817	607	N/P	N/P	N/P	N/P	N/P	1,444	559	825	598	372	50	151	45	126	3	N/P
1923	163	452	110	932	151	4,769	471	1,949	1,129	1,220	448	111	931	147	4,075	354	1,473	847	1,401	-4	-694
1924	163	461	1	4	3	1,501	434	457	160	450	453	1	4	3	1,521	440	505	163	413	-8	20
1925	163	398	122	179	126	N/P	N/P	N/P	N/P	N/P	391	122	177	122	630	61	259	125	185	-7	N/P
1926	164	8	2	4	6	418	183	121	46	68	8	2	4	6	449	217	176	45	11	0	31
1927	164	1,470	526	1,025	684	672	153	214	99	206	1,639	597	1,152	750	750	165	330	150	105	169	78
1928	164	78	30	38	40	810	315	252	163	80	2,738	1,072	1,346	1,380	1,607	872	344	203	188	2,660	797
1929	164	2,089	672	1,711	986	N/P	N/P	N/P	N/P	N/P	2,058	674	1,700	955	76	16	35	15	10	-31	N/P
1930	164	286	108	142	139	394	213	110	23	48	289	111	145	138	489	284	165	10	30	3	95
1931	164	545	178	399	293	603	354	117	5	127	547	182	404	290	574	303	156	6	109	2	-29
1932	164	2401	843	2386	1007	130	10	38	24	58	2,426	867	2,431	1001	179	10	45	30	94	25	49
1933	164	24	13	42	15	1,320	443	530	76	271	581	320	1,025	356	1,495	493	691	65	246	557	175
1934	164	416	151	303	181	2,711	919	1,144	263	385	2,076	767	1,525	888	3,139	1,094	1,378	304	363	1,660	428
1935	164	37	14	35	15	494	219	198	25	52	5,459	2,102	5,210	2,177	2,391	578	496	59	1,258	5,422	1,897
1936	164	653	245	522	382	19	4	6	6	3	752	287	605	432	99	46	47	0	6	99	80
1937	164	1,371	479	1,352	758	64	17	25	7	15	1,403	499	1,395	763	139	69	59	7	4	32	75
1938	161	629	265	531	500	2,279	589	820	586	284	1,616	693	1,376	1,264	2,628	878	1,038	571	141	987	349
1939	164	911	458	535	388	1,227	454	427	114	232	1,721	881	1,020	721	1,374	640	575	139	20	810	147
1940	164	0	0	0	0	N/P	N/P	N/P	N/P	N/P	508	200	495	288	150	70	80	0	0	508	N/P
1941	164	2,033	655	1,398	848	308	66	42	87	113	1,915	628	1,328	785	464	70	164	174	56	-118	156
Total		69,466	23,997	55,793	32,380	31,117	8,213	10,584	5,200	7,120	85,930	30,933	70,375	39,680	37,963	11,063	13,367	5,483	8,050	16,464	6,846

*Note: TAZs were renumbered as part of the 2015 model update.

Data is sorted by TAZ number.

TAZs with "N/P" in the employment column cannot have their 2015 employment data disclosed due to VEC regulations.

Conclusion

As mentioned at the outset of this report, making an accurate long-term forecast is inherently difficult because the future contains many unknowns that will influence demographic trends and behaviors. This inherent difficulty, however, does not abdicate one from the responsibility to plan and prepare for the future in the most efficient manner possible. This forecast was prepared in an unbiased manner, based on a sound and reasoned methodology, using the best information currently available. As future unknowns begin to unfold, unexpected shifts in demographic trends will take place. In recognition of the ever-changing environment in which we live, the HRTPO will provide continuous updates to the socioeconomic forecast, and to the region's Long-Range Transportation Plan.

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Appendix A - HRTPO Board Presentation: Hampton Roads 2045 Socioeconomic Forecast



Presented to the HRTPO
Greg Grootendorst
Chief Economist, HRPDC
July 20, 2017

HAMPTON ROADS 2045

Socioeconomic Forecast

2045 Socioeconomic Forecast

In 28 years...

Unknowns

- Demographic
 - Cultural
 - Technological
 - Unknown
- Employment trends
 - Household trends
 - Vehicles per household
 - Population density
 - Migration
 - Labor force participation
 - Commuting patterns
 - Planning and zoning
 - Employment
 - Federal, State, and Local Policy
 - Gas prices
 - Natural Increase
 - Persons per household
 - Land Availability
 - Transportation Modes and Costs
 - Retail Purchases
 - Sea level rise

2045 Socioeconomic Forecast

What the forecast is:

- Input data for the HRTPO 2045 Long-Range Transportation Plan
- An impartial and consistent set of socioeconomic projections that can assist organizations when planning for the region's future

What the forecast is not:

- An economic development tool (optimistic)
- A growth management tool (pessimistic)
- Destiny

What is included in the forecast?

- Population
- Employment by place of residence
- Employment by place of work
 - Retail
 - Industrial
 - Office
 - Other
- Households
- Passenger Vehicle Registrations

Socioeconomic Forecast Process

1. Literature Review of Forecasting Techniques
2. Review Best Practices
3. Begin Data Collection
 - Raw Data
 - Input from Localities
 - Research Assumptions
 - Model Inputs
4. Produce Draft Control Totals
5. Produce Draft Jurisdiction Totals
6. Review Draft with Planning Staff/TTAC
7. Present Control Totals for Approval
8. Provide Approved Control Totals to Localities for Assignment to TAZs
9. Final Approval of 2045 Socioeconomic Forecast

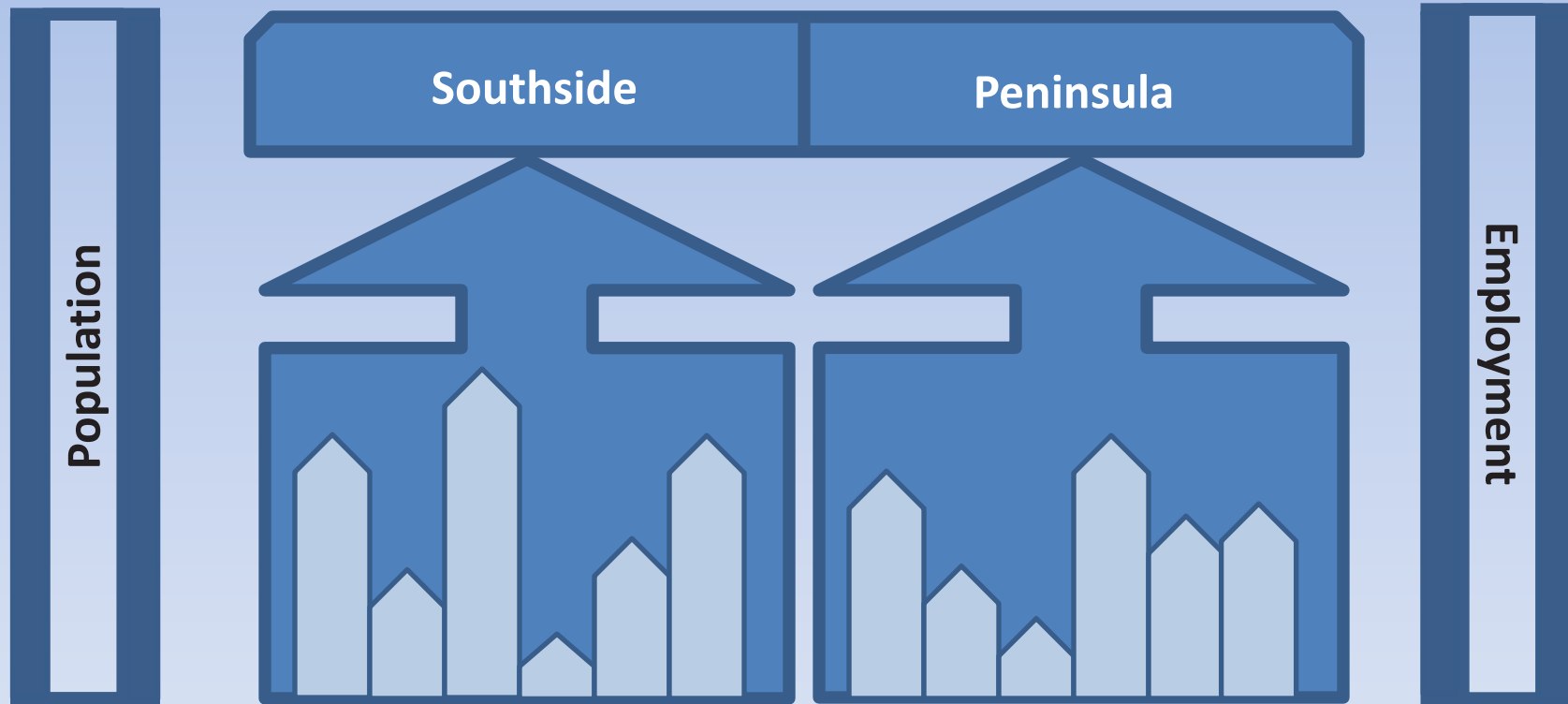
Forecast Process

- April 2016 – Presentation to Planning Directors
 - Met with Planning Directors/Staff from Every Jurisdiction
- July 2016 – Presentation to TTAC on draft methodology
- April 2017 – Presentation made to the LRTP Subcommittee
- May 2017 – Presentation to TTAC; draft tables made available for public comment
- June 2017 – Regional control totals presented to and approved by TTAC

Forecast Methodology

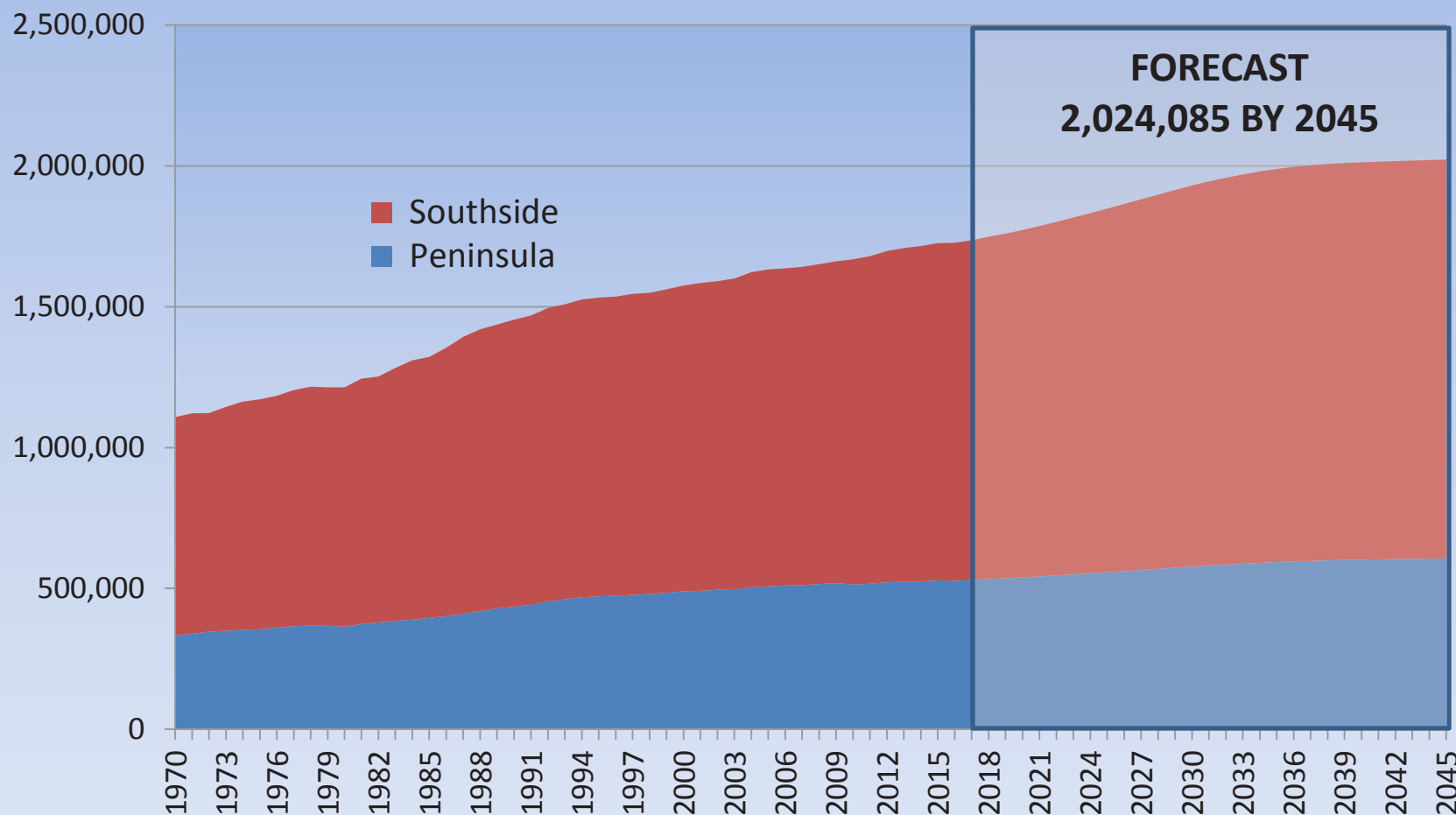
Top-Down, Bottom-Up

Hampton Roads Total

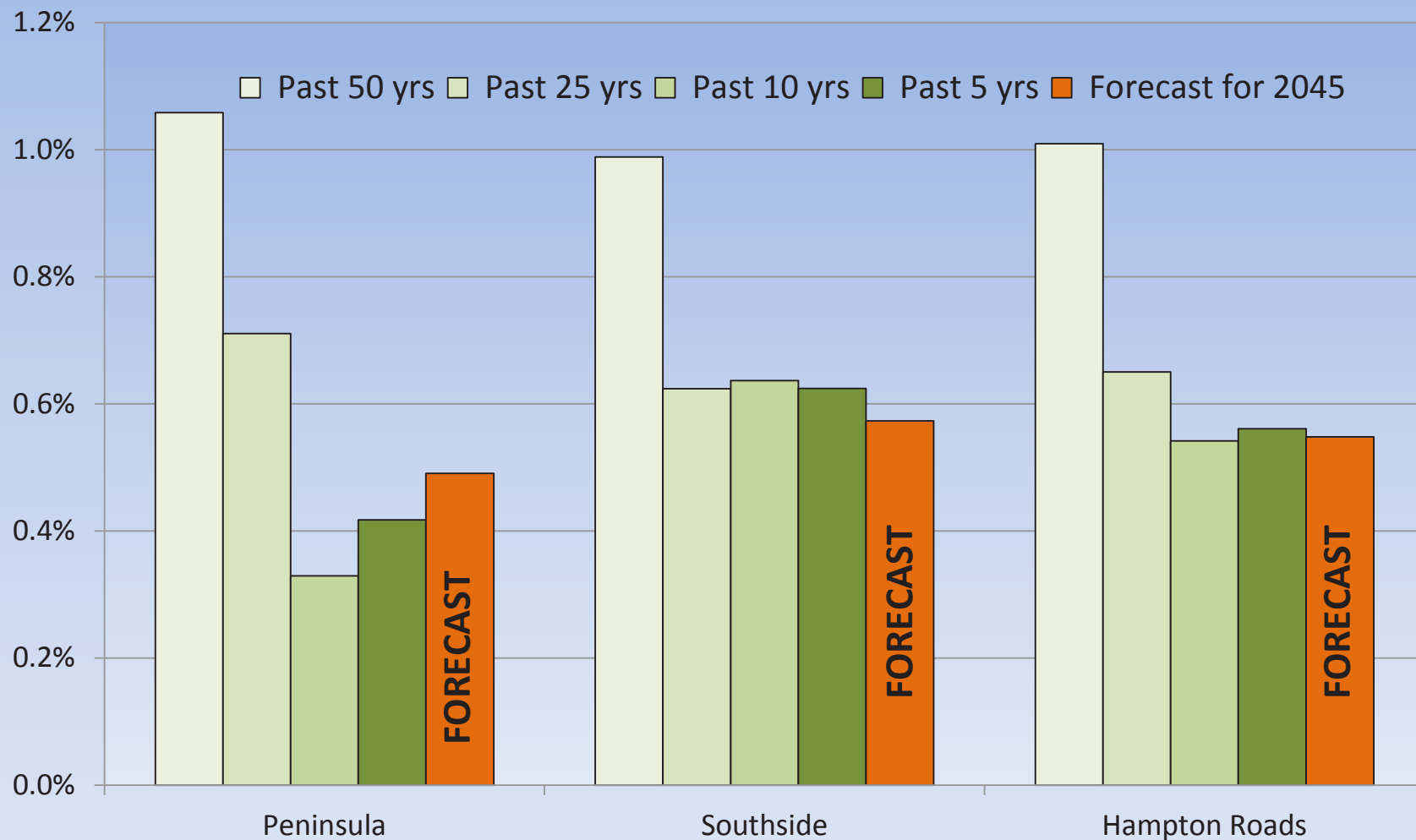


Locality Growth Rates

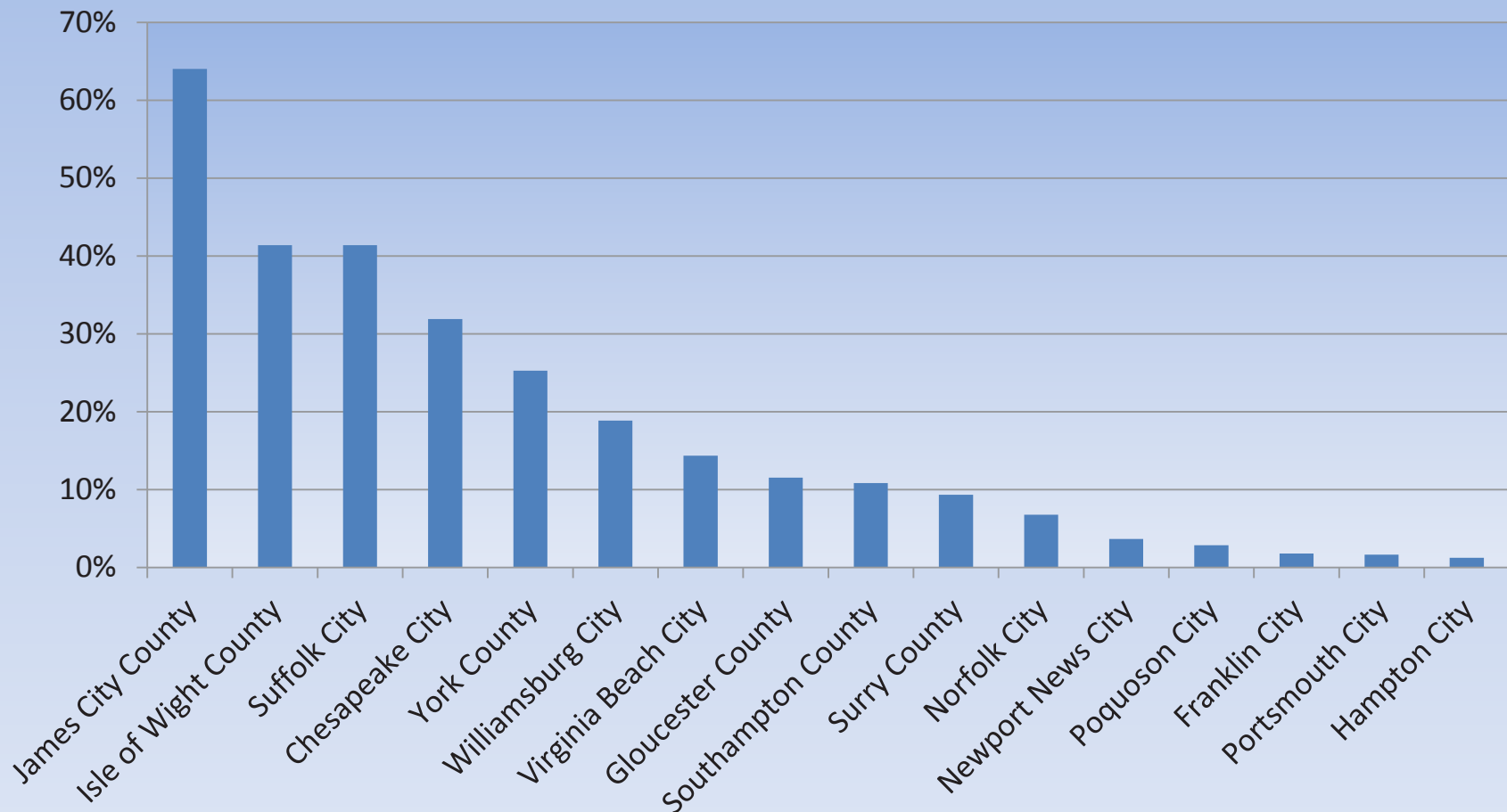
Hampton Roads Population Growth Through 2045



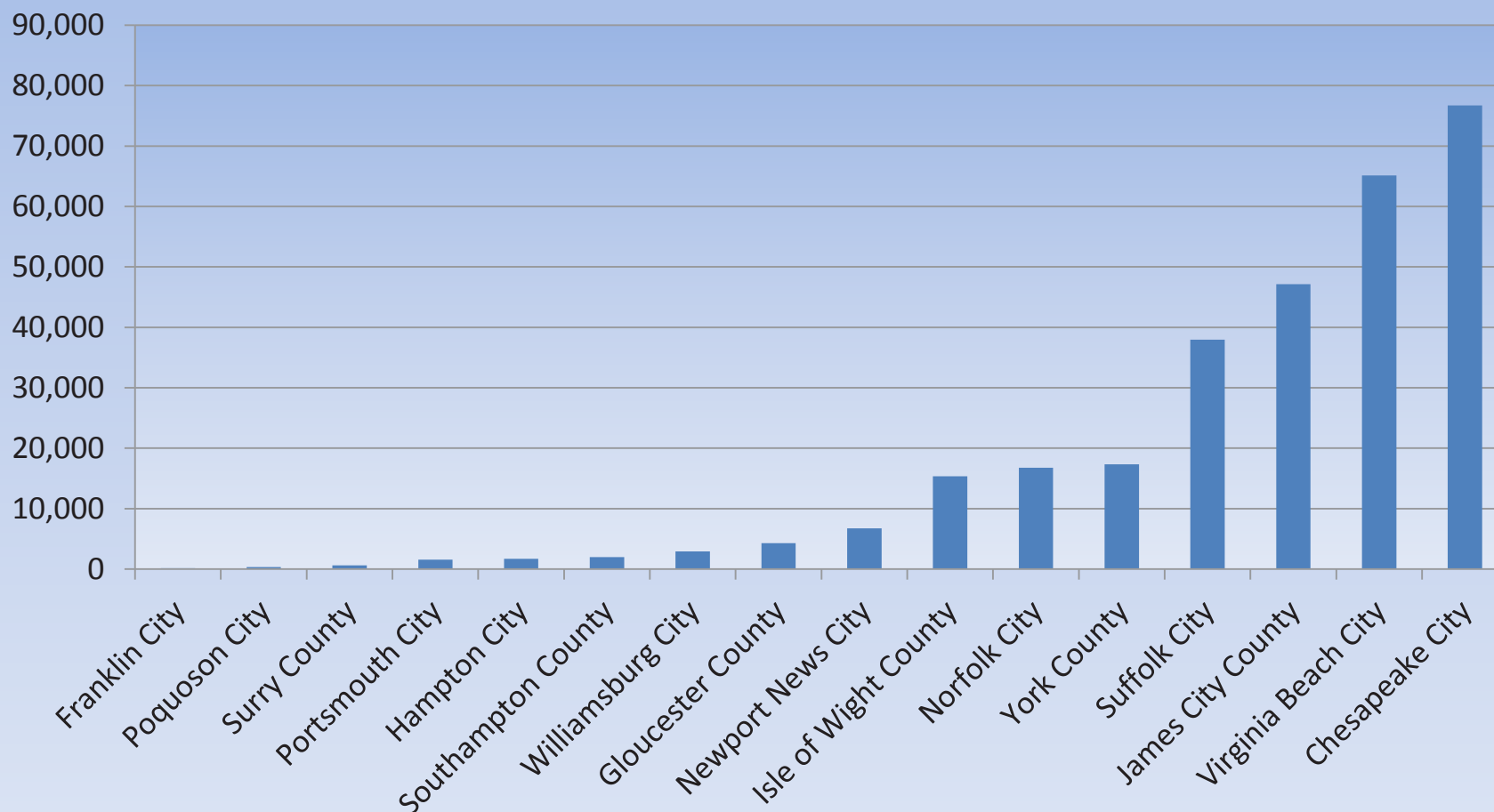
Population Growth Rates



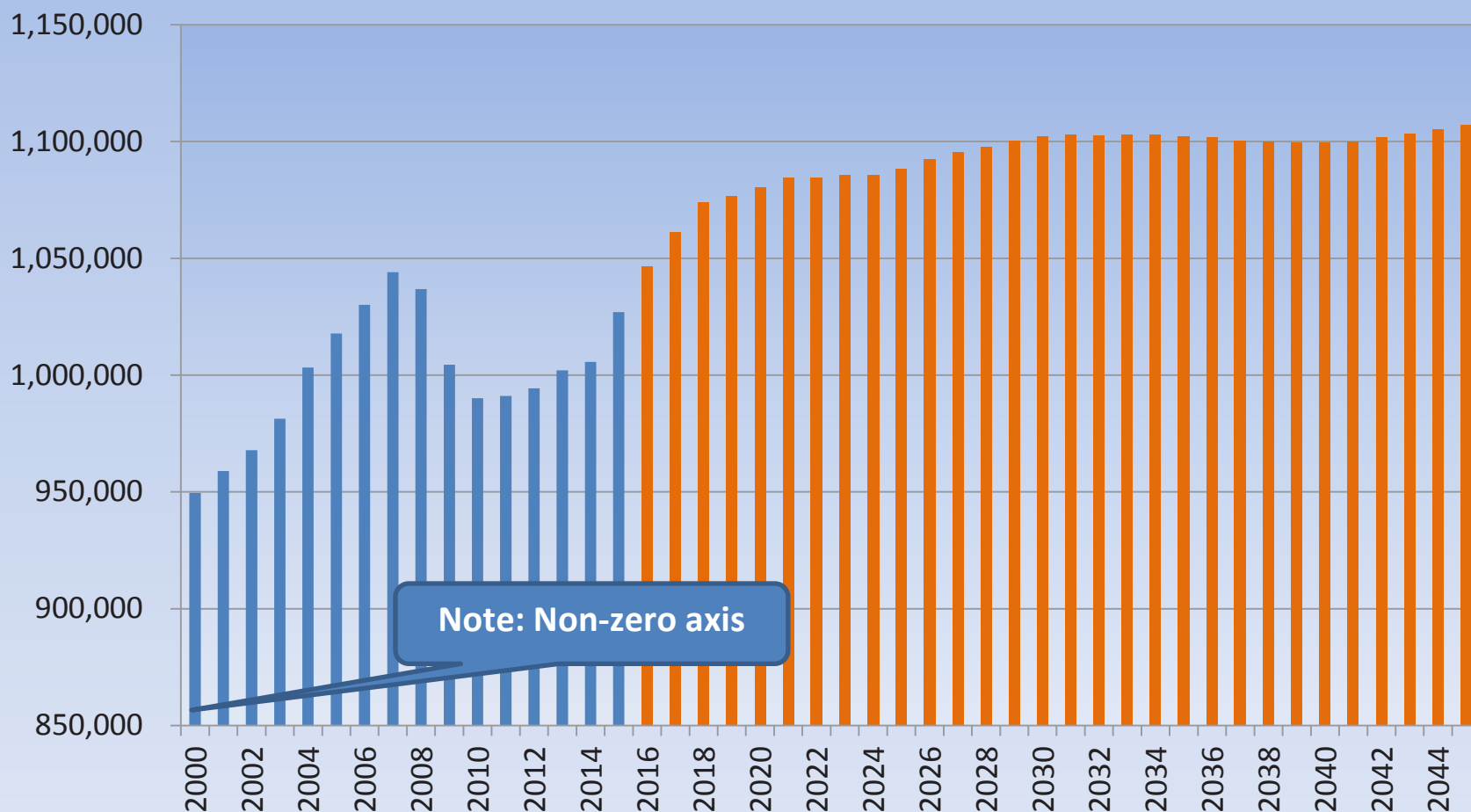
Forecast of Jurisdiction Growth Rates from 2016 to 2045



Forecast of Population Increase from 2016 to 2045

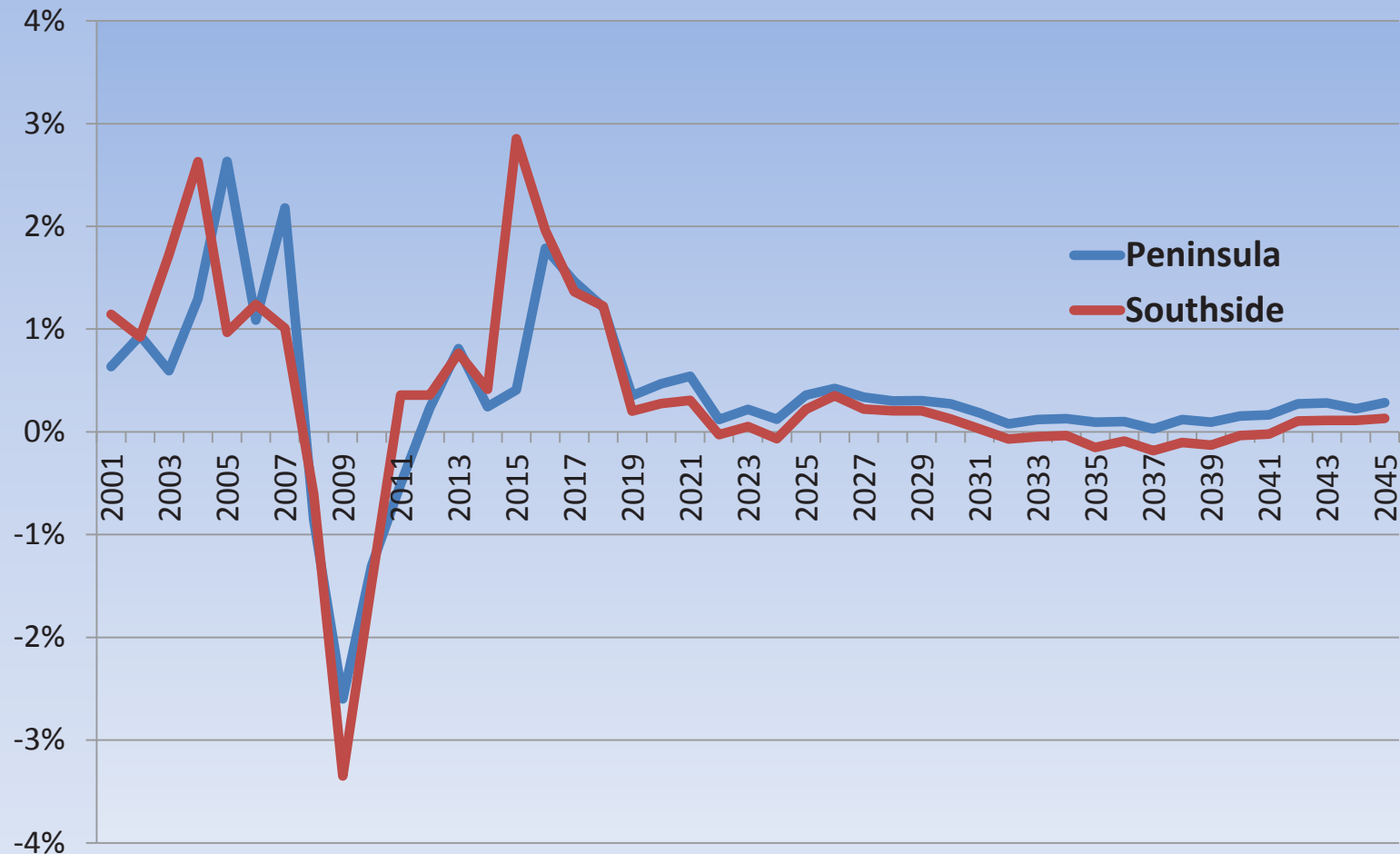


Projected Employment in Hampton Roads



Note: Non-zero axis

Projected Employment Growth, Southside and Peninsula

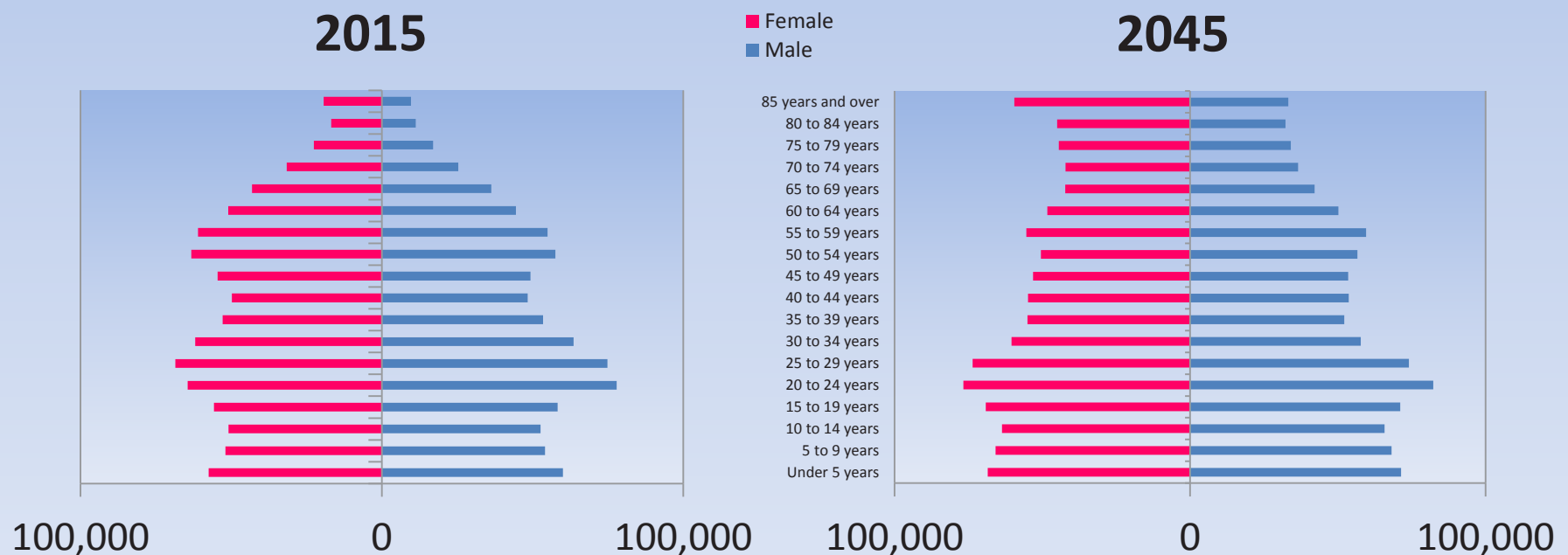


Feedback – Why are the employment numbers so low?

- Demographics
- Employment Trends
- Labor Force Trends

Feedback - Population Growth Rates

- Demographics
 - Aging of the population
 - Fewer replacement workers in the next generation

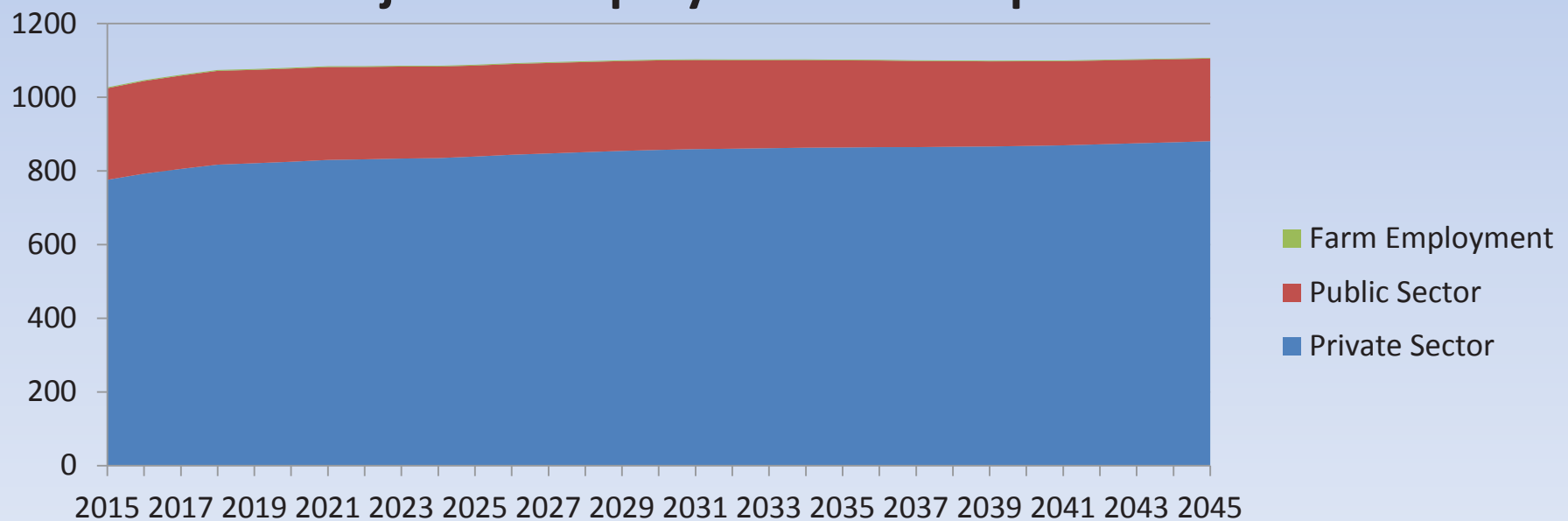


Feedback – Why are the employment numbers so low?

- Employment Trends

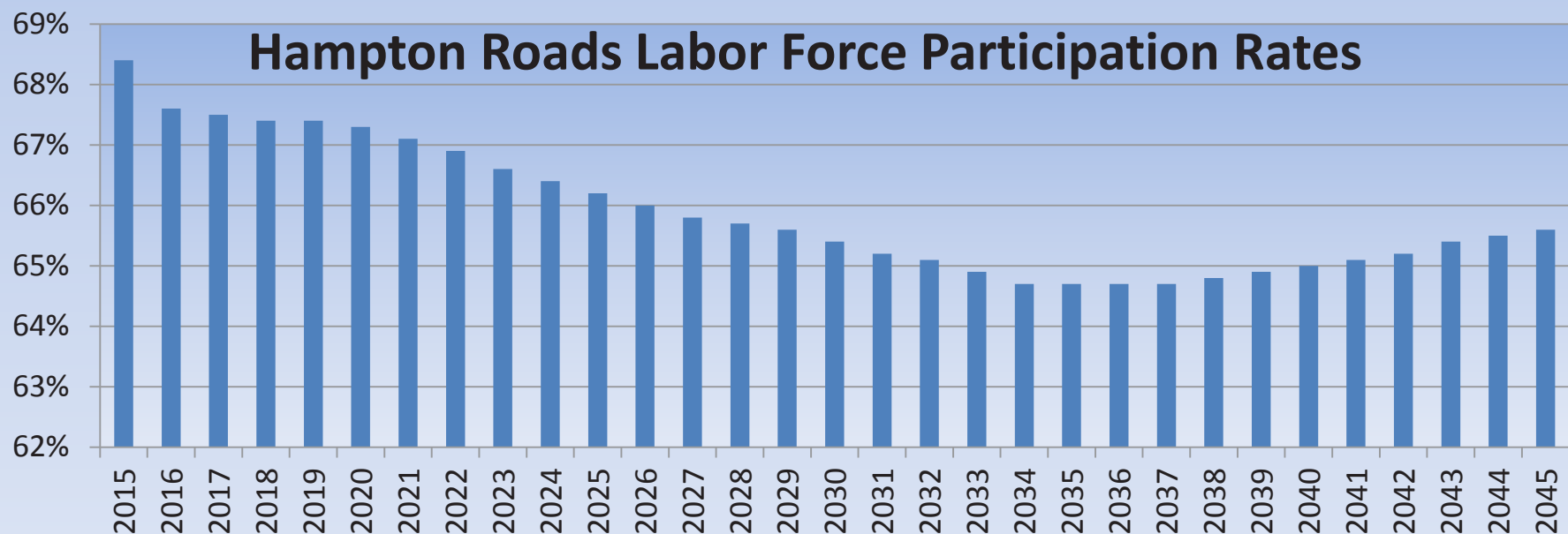
- Established industries in Hampton Roads are not poised for long-term robust growth

Projected Employment in Hampton Roads



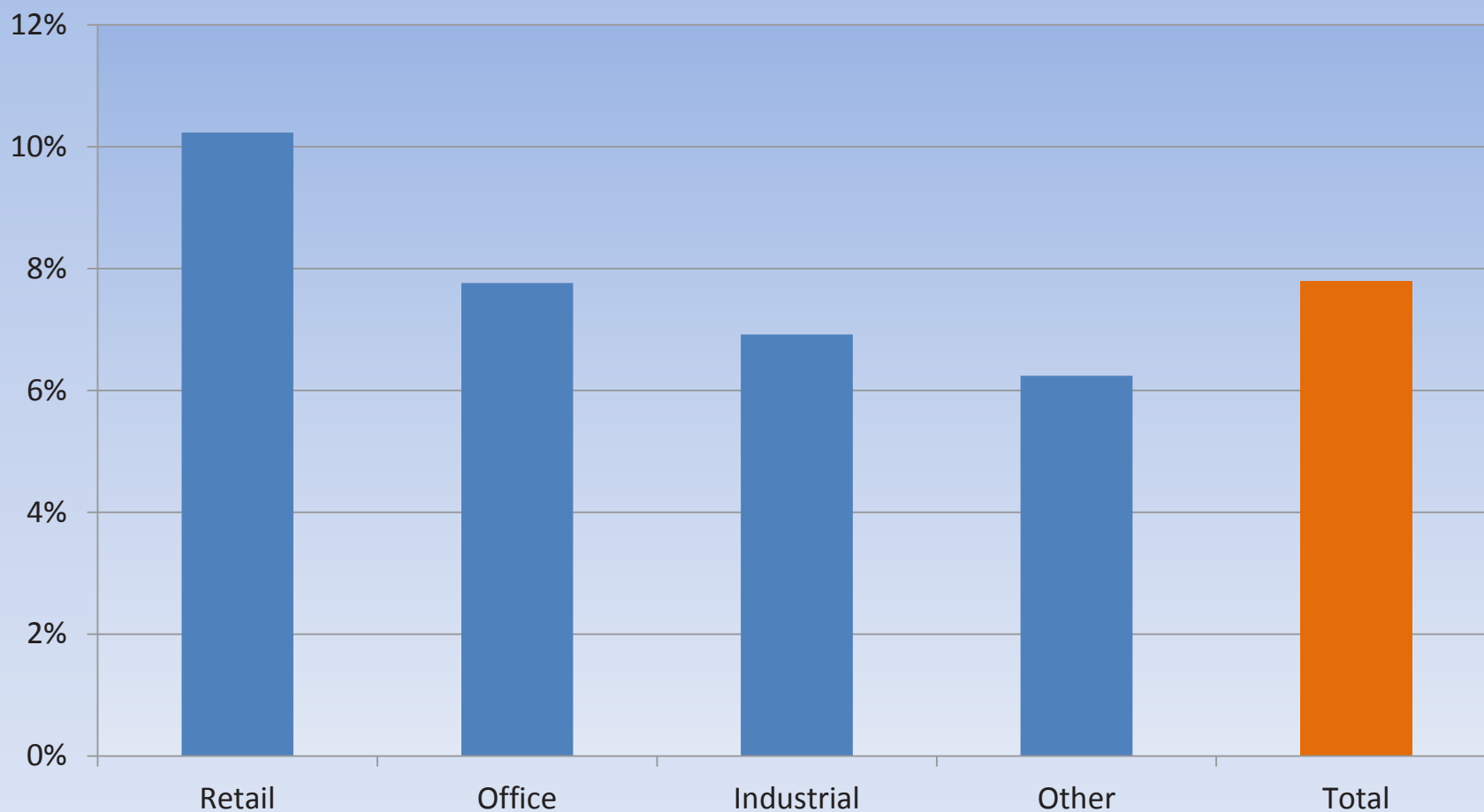
Feedback – Why are the employment numbers so low?

- Labor Force Trends
 - The labor force participation rate is declining and is projected to continue to decline until the late 2030s



Sources: Regional Economic Models, Inc & HRPDC

Employment Growth Forecast by Category



Employment Categories

- Retail
- Office
- Industrial
- Other

Industry Sector	2-Digit NAICS*	Retail	Office	Industrial	Other
Agriculture, Forestry and Fisheries	11			100%	
Mining	21			100%	
Construction	23		10%	90%	
Manufacturing	31,32,33		10%	80%	10%
Transportation & Warehousing	48	5%	15%	50%	30%
Communications, Utilities	22	10%	10%	70%	10%
Wholesale Trade	42	40%	10%	20%	30%
Retail Trade	44,45	90%	10%		
Information	51		60%	10%	30%
Finance, Insurance, Real Estate	52,53,55		100%		
Administration & Support	56	30%	30%	10%	30%
Personal Services	72,81	40%	30%	10%	20%
Entertainment, Recreation	71	30%	10%		60%
Health Services	62	30%	30%	10%	30%
Educational Services	61		20%		80%
Other Professional and Related Services	54		90%		10%
Public Administration	92	10%	40%	20%	30%

* North American Industrial Classification System

Draft 2045 Socioeconomic Forecast

Population

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	775,253	849,550	1,018,986	1,085,471	1,152,606	1,196,615	1,416,015
Chesapeake	89,580	114,486	151,982	199,184	222,209	238,283	317,206
Franklin	6,880	7,308	7,864	8,346	8,582	8,535	8,751
Isle of Wight Co.	18,285	21,603	25,053	29,728	35,270	36,438	52,417
Norfolk	307,951	266,979	261,250	234,403	242,803	247,189	263,837
Portsmouth	110,963	104,577	103,910	100,565	95,535	96,874	97,752
Southampton Co.	18,582	18,731	17,550	17,482	18,570	18,551	20,218
Suffolk	45,024	47,621	52,143	63,677	84,585	90,426	129,682
Surry Co.	5,882	6,046	6,145	6,829	7,058	6,819	7,374
Virginia Beach	172,106	262,199	393,089	425,257	437,994	453,500	518,777
Peninsula	333,140	364,449	435,197	481,330	513,704	529,162	608,070
Gloucester Co.	14,059	20,107	30,131	34,780	36,858	37,072	41,252
Hampton	120,779	122,617	133,811	138,437	137,436	138,626	139,207
James City Co.	17,853	22,339	34,859	48,102	67,009	73,325	120,741
Newport News	138,177	144,903	171,439	180,150	180,719	183,454	189,962
Poquoson	5,441	8,726	11,005	11,566	12,150	12,359	12,637
Williamsburg	9,069	10,294	11,530	11,998	14,068	14,860	18,341
York Co.	27,762	35,463	42,422	56,297	65,187	69,466	85,930
Hampton Roads	1,108,393	1,213,999	1,454,183	1,566,801	1,666,310	1,725,777	2,024,085

Source of historical data: U.S. Census Bureau, Weldon Cooper Center, HRPDC

Draft 2045 Socioeconomic Forecast

Number of Households

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	218,088	266,353	344,456	395,619	426,133	429,122	511,999
Chesapeake	25,178	36,362	52,024	69,900	79,574	81,518	111,673
Franklin	2,113	2,591	3,011	3,384	3,530	3,453	3,553
Isle of Wight Co.	5,028	7,050	9,031	11,319	13,718	13,769	20,197
Norfolk	86,607	74,955	79,518	86,210	86,485	87,045	92,387
Portsmouth	34,470	36,796	38,706	38,170	37,324	36,757	37,035
Southampton Co.	4,915	5,774	6,004	6,279	6,719	6,680	7,351
Suffolk	13,116	15,726	18,518	23,283	30,868	30,990	46,667
Surry Co.	1,576	2,002	2,279	2,619	2,826	2,668	2,868
Virginia Beach	45,085	85,097	135,365	154,455	165,089	166,242	190,268
Peninsula	92,909	124,178	159,724	183,488	199,950	197,470	230,966
Gloucester Co.	4,431	7,159	10,957	13,127	14,293	14,280	15,877
Hampton	34,564	41,550	49,680	53,887	55,031	52,940	53,252
James City Co.	4,551	7,493	12,990	19,003	26,860	28,000	47,825
Newport News	39,586	51,310	64,420	69,686	70,664	69,073	72,234
Poquoson	NA	2,763	3,763	4,166	4,525	4,642	4,829
Williamsburg	2,396	3,024	3,462	3,619	4,571	4,538	6,017
York Co.	7,381	10,879	14,452	20,000	24,006	23,997	30,933
Hampton Roads	310,997	390,531	504,180	579,107	626,083	626,592	742,965

Source of historical data: U.S. Census Bureau

Draft 2045 Socioeconomic Forecast

Number of Vehicles

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	231,316	425,239	613,064	762,371	864,362	896,659	1,065,120
Chesapeake	31,108	62,967	101,571	148,000	176,139	187,620	252,166
Franklin	1,036	4,341	4,967	5,775	6,368	6,434	6,514
Isle of Wight Co.	5,736	12,410	19,248	26,062	33,625	35,029	50,446
Norfolk	86,358	114,263	129,858	144,024	153,058	157,062	165,107
Portsmouth	35,828	50,267	59,563	63,153	66,352	66,854	66,593
Southampton Co.	5,173	9,414	11,879	14,034	16,439	16,290	17,956
Suffolk	4,452	24,710	33,816	48,661	67,091	70,964	104,151
Surry Co.	1,723	3,599	5,102	6,283	7,370	7,289	7,653
Virginia Beach	59,902	143,268	247,060	306,379	337,920	349,117	394,534
Peninsula	110,481	192,989	279,223	357,595	412,325	419,756	484,392
Gloucester Co.	5,065	12,621	23,125	30,378	35,818	35,978	39,894
Hampton	42,797	66,132	87,366	97,982	104,189	102,290	101,837
James City Co.	3,958	11,319	22,776	37,423	52,673	54,084	93,067
Newport News	44,434	73,756	98,570	127,726	141,874	142,893	147,204
Poquoson NA		5,272	8,470	10,031	11,336	11,398	11,976
Williamsburg	4,144	6,531	9,910	9,957	13,018	17,320	20,040
York Co.	10,083	17,358	29,006	44,098	53,417	55,793	70,375
Hampton Roads	341,797	618,228	892,287	1,119,966	1,276,687	1,316,415	1,549,512

Source of historical data: Virginia Department of Motor Vehicles

Draft 2045 Socioeconomic Forecast

Workers by Place of Residence

	1980	1990	2000	2010	2015	Forecast 2045
Southside	387,154	511,022	531,417	579,237	581,926	630,872
Chesapeake	48,649	75,610	96,977	110,539	110,653	135,259
Franklin	2,732	3,272	3,337	3,078	3,341	3,146
Isle of Wight Co.	9,299	11,637	13,986	17,380	17,249	22,784
Norfolk	127,689	130,549	112,083	121,083	123,302	120,846
Portsmouth	41,576	44,390	43,922	44,871	42,374	39,262
Southampton Co.	7,065	7,255	6,945	8,445	7,817	7,823
Suffolk	19,100	22,255	28,372	39,012	40,414	53,220
Surry Co.	2,382	2,622	3,147	3,217	3,129	3,107
Virginia Beach	128,662	213,432	222,648	231,612	233,647	245,425
Peninsula	165,816	212,763	229,790	250,121	245,409	277,742
Gloucester Co.	8,447	14,387	16,952	18,003	17,829	19,654
Hampton	54,862	66,008	66,101	66,680	64,027	63,694
James City Co.	10,133	17,692	21,922	30,264	31,537	51,445
Newport News	67,023	82,662	86,282	90,519	87,916	90,184
Poquoson	4,015	5,700	5,658	5,917	5,936	6,013
Williamsburg	4,366	4,894	4,239	5,705	5,784	7,072
York Co.	16,970	21,420	28,636	33,033	32,380	39,680
Hampton Roads	552,970	723,785	761,207	829,358	827,335	908,614

Source of historical data: U.S. Census Bureau

Draft 2045 Socioeconomic Forecast

Employment by Place of Work

	1970	1980	1990	2000	2010	2015	Forecast 2045
Southside	388,716	472,753	614,446	673,958	693,643	724,838	771,266
Chesapeake	22,566	32,288	62,605	102,765	121,687	127,190	138,475
Franklin	3,397	4,091	4,685	5,560	5,861	5,863	6,392
Isle of Wight Co.	9,301	11,880	12,133	16,134	14,230	15,599	17,498
Norfolk	211,278	230,199	259,481	225,319	210,988	211,869	216,143
Portsmouth	48,087	53,996	58,979	52,831	57,413	60,795	65,692
Southampton Co.	6,124	5,927	5,461	6,026	5,171	5,743	6,255
Suffolk	18,055	19,692	20,660	26,273	34,747	39,549	45,789
Surry Co.	3,662	3,073	3,193	2,604	3,040	3,272	3,714
Virginia Beach	66,246	111,607	187,249	236,446	240,506	254,958	271,307
Peninsula	153,365	190,391	256,242	289,273	296,970	302,168	337,008
Gloucester Co.	3,493	6,468	9,700	13,002	14,029	13,960	15,906
Hampton	50,259	60,965	76,339	83,361	76,913	75,251	78,694
James City Co.	5,646	12,330	19,645	25,943	36,401	40,105	45,921
Newport News	75,753	85,370	110,589	115,678	119,642	123,464	137,977
Poquoson	999	1,611	2,160	2,674	2,607	2,083	2,585
Williamsburg	8,765	12,680	19,133	23,869	17,902	16,188	17,961
York Co.	8,450	10,967	18,676	24,746	29,476	31,117	37,963
Hampton Roads	542,081	663,144	870,688	963,231	990,613	1,027,006	1,108,274

Source of historical data: Bureau of Economic Analysis

Draft 2045 Socioeconomic Forecast

Retail Employment

	2010	2015	Forecast 2045
Southside	150,033	160,556	175,501
Chesapeake	30,619	32,527	36,307
Franklin	2,059	2,134	2,377
Isle of Wight Co.	2,713	3,165	3,807
Norfolk	38,439	39,401	40,510
Portsmouth	11,275	12,225	13,622
Southampton Co.	667	845	906
Suffolk	8,394	9,576	11,456
Surry Co.	439	470	558
Virginia Beach	55,427	60,213	65,958
Peninsula	66,700	69,473	78,179
Gloucester Co.	3,871	3,985	4,757
Hampton	16,883	17,472	17,581
James City Co.	9,247	9,875	10,927
Newport News	23,669	24,946	28,353
Poquoson	613	642	742
Williamsburg	4,473	4,340	4,756
York Co.	7,944	8,213	11,063
Hampton Roads	216,733	230,029	253,680

Source of historical data: Bureau of Economic Analysis, VEC, and HRPDC

Draft 2045 Socioeconomic Forecast

Office Employment

	2010	2015	Forecast 2045
Southside	255,877	266,614	283,270
Chesapeake	42,041	44,083	48,438
Franklin	2,066	1,909	2,039
Isle of Wight Co.	4,197	4,458	4,878
Norfolk	79,789	79,799	81,398
Portsmouth	19,920	21,052	22,688
Southampton Co.	1,425	1,690	1,752
Suffolk	11,549	13,871	15,911
Surry Co.	739	796	877
Virginia Beach	94,152	98,956	105,289
Peninsula	98,748	99,466	111,706
Gloucester Co.	4,489	4,408	5,073
Hampton	27,528	26,444	27,619
James City Co.	12,127	14,503	17,415
Newport News	38,062	38,543	42,423
Poquoson	745	705	827
Williamsburg	6,165	4,279	4,982
York Co.	9,632	10,584	13,367
Hampton Roads	354,625	366,080	394,976

Source of historical data: Bureau of Economic Analysis, VEC, and HRPDC

Draft 2045 Socioeconomic Forecast

Industrial Employment

	2010	2015	Forecast 2045
Southside	124,471	126,521	132,869
Chesapeake	23,621	24,003	25,255
Franklin	679	588	653
Isle of Wight Co.	4,689	4,894	5,492
Norfolk	37,933	37,344	38,081
Portsmouth	11,816	12,174	12,999
Southampton Co.	1,843	1,914	2,262
Suffolk	7,137	7,466	8,852
Surry Co.	1,367	1,469	1,696
Virginia Beach	35,386	36,670	37,579
Peninsula	60,355	61,061	67,934
Gloucester Co.	2,784	2,642	2,786
Hampton	12,534	11,856	12,740
James City Co.	6,295	5,619	6,454
Newport News	32,204	33,539	38,147
Poquoson	475	195	206
Williamsburg	1,043	2,010	2,119
York Co.	5,020	5,200	5,483
Hampton Roads	184,826	187,582	200,803

Source of historical data: Bureau of Economic Analysis, VEC, and HRPDC

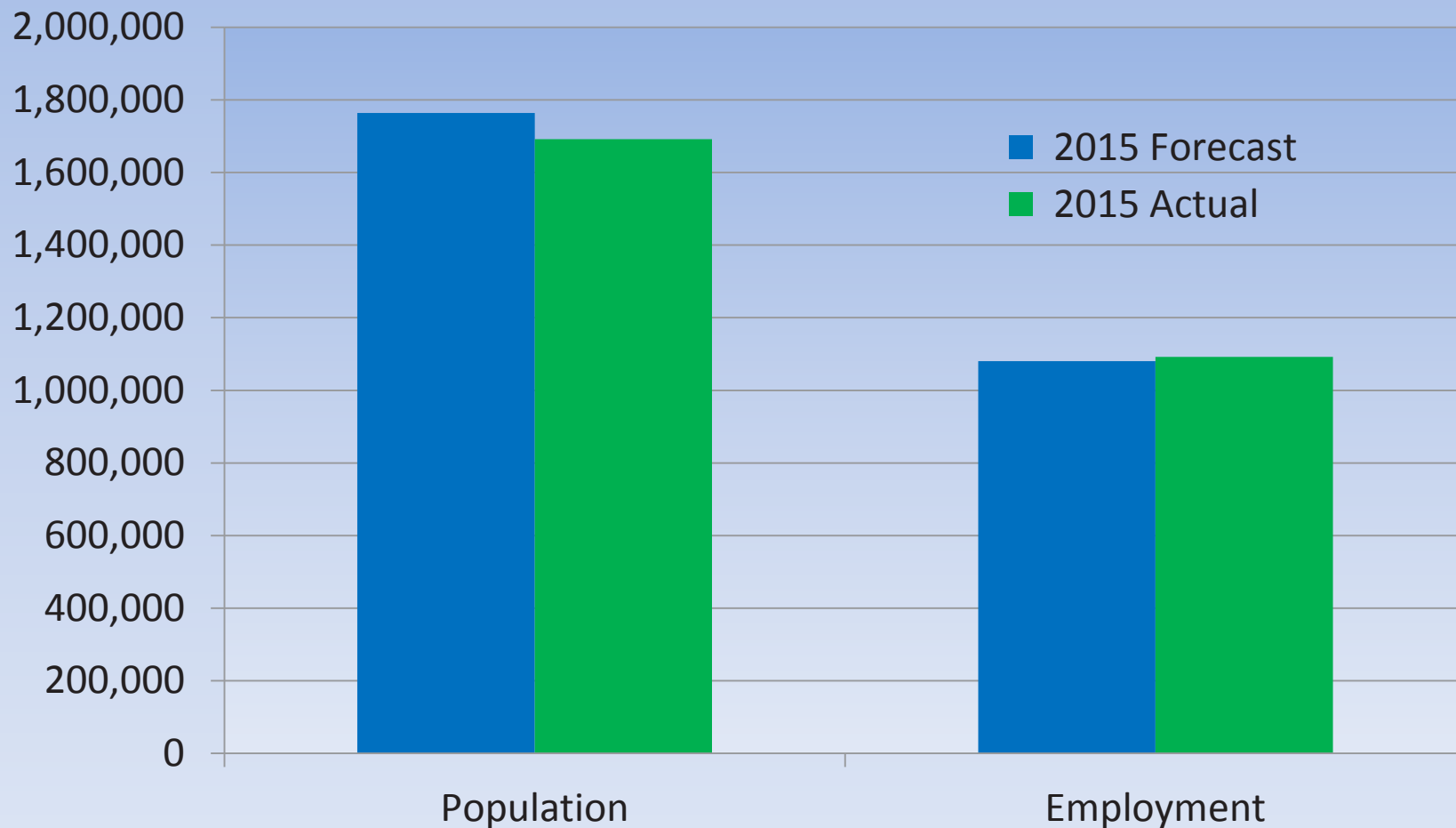
Draft 2045 Socioeconomic Forecast

Other Employment

	2010	2015	Forecast 2045
Southside	163,261	171,147	179,626
Chesapeake	25,406	26,578	28,475
Franklin	1,057	1,232	1,323
Isle of Wight Co.	2,631	3,082	3,322
Norfolk	54,827	55,325	56,154
Portsmouth	14,401	15,344	16,383
Southampton Co.	1,235	1,294	1,335
Suffolk	7,666	8,636	9,570
Surry Co.	496	537	584
Virginia Beach	55,541	59,119	62,481
Peninsula	71,166	72,167	79,188
Gloucester Co.	2,885	2,924	3,291
Hampton	19,968	19,479	20,754
James City Co.	8,732	10,108	11,125
Newport News	25,707	26,436	29,054
Poquoson	773	541	811
Williamsburg	6,221	5,559	6,104
York Co.	6,880	7,120	8,050
Hampton Roads	234,427	243,314	258,814

Source of historical data: Bureau of Economic Analysis, VEC, and HRPDC

Accuracy of Previous Forecasts?



Questions

Greg Grootendorst

Hampton Roads Planning District Commission

ggrootendorst@hrpdcva.gov

757.420.8300