HAMPTON ROADS PLANNING DISTRICT COMMISSION
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INTERIM EXECUTIVE DIRECTOR

chesapeake
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Amar Dwarkanath
Debbie Ritter
Ella P. Ward

Franklin
Barry Cheatham
R. Randy Martin

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Sanford B. Wanner

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Chris Snead
George Wallace

Isle of Wight County
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James City County
Bryan J. Hill
Mary K. Jones

Newport News
James M. Bourey
Saundra N. Cherry
McKinley L. Price

Norfolk
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Mamie B. Johnson
Marcus Jones
Thomas R. Smigiel
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Executive Committee Member

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Chief Economist
James Clary
Senior Economist
Keith Nichols
Principal Transportation Engineer

Michael Long
General Services Manager
Christopher W. Vaigneur
Assistant General Services Manager
Jennifer Coleman
Administrative Assistant
Hampton Roads
Regional Benchmarking Study
10th Edition

Preparation of this report was included in the HRPDC Unified Planning Work Program for Fiscal Year 2014-2015, approved by the Hampton Roads Planning District Commission at its Commission Meeting of June 19, 2014.

Prepared by the staff of the
Hampton Roads Planning District Commission

June 2015
ABSTRACT

The Hampton Roads Regional Benchmarking Study is an annual publication designed to evaluate regional progress across a broad range of categories. The publication includes a locality profile for each of the region’s 17 jurisdictions as well as graphical illustrations for a myriad of regional benchmarks covering the economy, demographics, housing, transportation, and various quality of life indicators. Each graph is accompanied by a brief explanation regarding the purpose of the benchmark and the current condition in Hampton Roads.

ACKNOWLEDGMENTS

Prepared by the staff of the Hampton Roads Planning District Commission.

Preparation of this Report was included in the HRPDC Unified Planning Work Program for Fiscal Year 2014-2015, approved by the Hampton Roads Planning District Commission at its Commission Meeting of June 19, 2014.
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Section I.

Introduction

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Introduction

Hampton Roads is a dynamic metropolitan region complete with a rich history, a diverse landscape, and a growing population of over 1.7 million people. The region’s vibrant mix of people, places, and employment opportunities combine to make Hampton Roads a choice destination for people to live, work, and play. As with any metropolitan area, there are many factors that have bearing on the region’s quality of life. To understand the region’s strengths and weaknesses, and to provide context for understanding the challenges that face the region requires a comprehensive understanding of a complex network of socioeconomic metrics. The purpose of the Hampton Roads Regional Benchmarking Study is to shed light on the numerous metrics and statistics that provide insight into the region’s well-being, and to provide information to assist in the decision making process on matters pertaining to the region’s quality of life. To that end, the benchmarking study provides 154 graphs and illustrations to help better understand Hampton Roads’ relative well-being, both in relation to other regions, and with respect to changing regional trends.

The Hampton Roads benchmarking study is comprised of 14 sections that cover measures of the region’s economy, various industries, demographics, transportation system, education system, government finances, and quality of life. The Report also includes metrics on each of the regions localities in relation to each other.

The introduction section begins with a table which ranks and compares Hampton Roads on a variety of metrics to the 34 reference metropolitan areas which have a population between 1 and 3 million persons. It also contains a data profile for the region and each of the 17 member localities of the HRPDC (sources for the data are found on page 22).

This Report may best be used as a reference guide to assist in understanding the various facets of the regional economy. Graphs, illustrations, and datasets are available for download via the Commission’s website at http://www.hrpdeva.gov/page/benchmarking.
# American Community Survey Data for Hampton Roads

Uses American Community Survey One Year Estimates 2013

Ranking is from Largest Value (rank 1) to Smallest value (rank 35)

<table>
<thead>
<tr>
<th>Category</th>
<th>Hampton Roads Value</th>
<th>Hampton Roads Rank*</th>
<th>Median MSA Value</th>
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<td>Median Age</td>
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<td>31</td>
<td>36.9</td>
<td>37.6</td>
<td>37.5</td>
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<td>% of Population 17 &amp; Younger</td>
<td>22.7%</td>
<td>24</td>
<td>23.5%</td>
<td>22.6%</td>
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<td>% of Population 65 &amp; Older</td>
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<td>23</td>
<td>13.3%</td>
<td>13.4%</td>
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<td>% of Population Who Are African American</td>
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<td>12.4%</td>
<td>18.9%</td>
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<td>% of Population Who Are White Non-Hispanic</td>
<td>56.6%</td>
<td>27</td>
<td>66.2%</td>
<td>63.5%</td>
<td>62.4%</td>
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<td>% of Population Who Are Hispanic</td>
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<td>8.6%</td>
<td>8.6%</td>
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<td>% of Population Who Moved in Past Year</td>
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<td>15.9%</td>
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<td>% of Population Who Are Foreign Born</td>
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<td>7.5%</td>
<td>11.5%</td>
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<td>% of Who Don’t Speak English at Home</td>
<td>8.9%</td>
<td>28</td>
<td>11.1%</td>
<td>14.9%</td>
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<td>Birthrate per 1000 women (15 - 50 Years Old)</td>
<td>51</td>
<td>16</td>
<td>51</td>
<td>50</td>
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<td>Teen Birthrate per 1000 women (15-19 Years Old)</td>
<td>23</td>
<td>12</td>
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<td>19</td>
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<td><strong>Commuting</strong></td>
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<td>Mean Travel Time to Work (Minutes)</td>
<td>24.0</td>
<td>24</td>
<td>25.1</td>
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<tr>
<td>% Who Traveled to Work by Public Transit</td>
<td>1.7%</td>
<td>20</td>
<td>2.4%</td>
<td>4.4%</td>
<td>5.2%</td>
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<tr>
<td>% Who Worked Outside County of Residence</td>
<td>46.2%</td>
<td>4</td>
<td>27.0%</td>
<td>51.4%</td>
<td>27.5%</td>
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<td><strong>Education</strong></td>
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<td>% of People Who Completed High School</td>
<td>90.7%</td>
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<td>89.4%</td>
<td>88.4%</td>
<td>86.6%</td>
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<tr>
<td>% of People Who Have a Bachelor’s Degree</td>
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<td>24</td>
<td>31.2%</td>
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<tr>
<td>% of People Who Have an Advanced Degree</td>
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<td>11.3%</td>
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<tr>
<td><strong>Housing</strong></td>
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<tr>
<td>Average Household Size</td>
<td>2.62</td>
<td>13</td>
<td>2.59</td>
<td>2.62</td>
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<td>Average Family Size</td>
<td>3.19</td>
<td>21</td>
<td>3.2</td>
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<tr>
<td>% of Households With Children in Residence</td>
<td>33.0%</td>
<td>12</td>
<td>32.0%</td>
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<tr>
<td>% of Housing Units that are Owner-Occupied</td>
<td>61.1%</td>
<td>25</td>
<td>64.5%</td>
<td>65.6%</td>
<td>63.5%</td>
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<tr>
<td>% Owners Spending &gt;30% Income on Housing</td>
<td>30.2%</td>
<td>6</td>
<td>23.4%</td>
<td>24.1%</td>
<td>25.5%</td>
</tr>
<tr>
<td>% Renters Spending &gt;30% Income on Housing</td>
<td>53.8%</td>
<td>5</td>
<td>50.6%</td>
<td>49.2%</td>
<td>51.5%</td>
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<tr>
<td><strong>Employment and Income</strong></td>
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<tr>
<td>% Labor Force Participation</td>
<td>67.2%</td>
<td>12</td>
<td>66.1%</td>
<td>66.2%</td>
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<tr>
<td>% of Labor Force in the Armed Forces</td>
<td>7.5%</td>
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<td>0.2%</td>
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<tr>
<td>Median Household Income</td>
<td>$56,161</td>
<td>12</td>
<td>$51,996</td>
<td>$62,666</td>
<td>$52,250</td>
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<td>Per Capita Income</td>
<td>$28,240</td>
<td>18</td>
<td>$28,240</td>
<td>$33,145</td>
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<td><strong>Other Indicators</strong></td>
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<td>Gini Coefficient</td>
<td>0.43</td>
<td>35</td>
<td>0.46</td>
<td>0.47</td>
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<td>% of People in Poverty</td>
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<td>26</td>
<td>14.5%</td>
<td>11.7%</td>
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<tr>
<td>% of Children Under 18 Years in Poverty</td>
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<td>22</td>
<td>20.5%</td>
<td>15.7%</td>
<td>22.2%</td>
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<tr>
<td>% of People With a Disability</td>
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<td>29</td>
<td>12.4%</td>
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<td>12.6%</td>
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<td>% of Veterans in the Civilian Population</td>
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<td>1</td>
<td>8.1%</td>
<td>10.9%</td>
<td>8.1%</td>
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<tr>
<td>% with Health Insurance Coverage</td>
<td>87.5%</td>
<td>17</td>
<td>86.8%</td>
<td>87.7%</td>
<td>85.5%</td>
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<tr>
<td>% of Children with Health Insurance</td>
<td>95.8%</td>
<td>8</td>
<td>95.0%</td>
<td>94.6%</td>
<td>92.9%</td>
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</table>

*Rank & Median Value is for all MSAs with 2013 Populations between 1 - 3 Million, 35 in Total*
### Hampton Roads

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
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<tbody>
<tr>
<td>Population (2014)</td>
<td>1,704,620</td>
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<td>Population Growth 2009—2014</td>
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<td>Employment (2013)</td>
<td>718,263</td>
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<td>Unemployment (2014)</td>
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<td>Poverty Rate (2009-2013)</td>
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<tr>
<td>Taxable Value of Real Estate 2013 (Billions)</td>
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<tr>
<td>Median Household Income (2009-2013)</td>
<td>$58,844</td>
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# Chesapeake

**City Council**

- Mayor Alan P. Krasnoff
- Vice Mayor John M. deTriquet
- Mr. Lonnie Craig
- Mr. Roland J. Davis
- Mr. Robert C. Ike Jr.
- Ms. Susan H. Kelly
- Ms. Debbie Ritter
- Dr. Ella P. Ward
- Mr. Rick West

<table>
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<td>Population Density (2014)</td>
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<td>Percent Employment Growth 2008-2013</td>
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<td>Employment (2013)</td>
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<td>Unemployment (2014)</td>
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<td>Taxable Value of Real Estate 2013 (Billions)</td>
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<td>Median Household Income (2009-2013)</td>
<td>$69,743</td>
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Franklin

City Council
Mayor Raystine D. Johnson-Ashburn
Vice Mayor Barry W. Cheatham
Mr. Brenton D. Burgess
Mrs. Mary E. Hilliard
Mr. Greg McLemore
Ms. Mona Murphy
Mr. Frank W. Rabil

Population (2014)------------------------------------------------------------- 8,526
Area in Square Miles --------------------------------------------------------- 8
Population Density (2014)------------------------------------------------------ 1,065.8
Population Growth 2009—2014-------------------------------------------------- 37
Percent Population Growth 2009-2014 ---------------------------------------- 0.4%
Percent Employment Growth 2008-2013---------------------------------------- 1.4%
Employment (2013)------------------------------------------------------------- 4,384
Unemployment (2014)----------------------------------------------------------- 7.9%
Poverty Rate (2009-2013)------------------------------------------------------- 23.0%
Taxable Value of Real Estate 2013 (Billions)----------------------------------- $0.58
On Time High School Graduation Rate (2014)----------------------------------- 84.4%
Median Household Income (2009-2013)------------------------------------------ $31,928

Hampton Roads Benchmarking Study
## Gloucester

**Board of Supervisors**

- Chair Ashley C. Chriscoe
- Vice Chair John C. Meyer Jr.
- Mr. Phillip N. Bazzani
- Mr. Christopher A. Hutson
- Mr. Andrew James Jr.
- Mr. Robert Orth
- Mr. Michael R. Winebarger

<table>
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<td>Median Household Income (2009-2013)</td>
<td>$60,519</td>
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Hampton

City Council
Mayor George E. Wallace
Vice Mayor Linda D. Curtis
Mr. W.H. Hobbs
Mr. Will J. Moffett
Ms. Teresa V. Schmidt
Ms. Chris Osby Snead
Mr. Donnie R. Tuck

Population (2014) ----------------------------------------------- 136,879
Area in Square Miles ------------------------------------------ 52
Population Density (2014) ------------------------------------- 2,632.3
Population Growth 2009–2014 --------------------------------- -954
Percent Population Growth 2009–2014 ------------------------- -0.7%
Percent Employment Growth 2008–2013 -------------------------- -6.8%
Employment (2013) --------------------------------------------- 54,918
Unemployment (2014) ------------------------------------------- 6.7%
Poverty Rate (2009–2013) -------------------------------------- 14.9%
Taxable Value of Real Estate 2013 (Billions) ------------------ $10.49
On Time High School Graduation Rate (2014) ------------------- 84.0%
Median Household Income (2009–2013) --------------------------- $50,705
# Isle of Wight

**Board of Supervisors**

Chair Rex Alphin  
Vice Chair Delores Dee-Dee Darden  
Mr. Byron B. Bailey  
Mr. Al Casteen  
Mr. Rudolph Jefferson

<table>
<thead>
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<td>Percent Population Growth 2009-2014</td>
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<td>Median Household Income (2009-2013)</td>
<td>$63,942</td>
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James City

**Board of Supervisors**

Chair Michael J. Hipple

Vice Chair  Kevin Onizuk

Ms. Mary K. Jones

Mr. James G. Kennedy

Mr. John J. McGlennon

Population (2014) 72,583

Area in Square Miles 153

Population Density (2014) 474.4

Population Growth 2009—2014 6,465

Percent Population Growth 2009-2014 9.8%

Percent Employment Growth 2008-2013 -1.7%

Employment (2013) 26,753

Unemployment (2014) 5.0%

Poverty Rate (2009-2013) 8.7%

Taxable Value of Real Estate 2013 (Billions) $11.21

On Time High School Graduation Rate (2014) 90.5%

Median Household Income (2009-2013) $76,960
Newport News

City Council

Mayor McKinley Price
Vice Mayor Robert S. Coleman
Mr. Herbert H. Bateman Jr.
Ms. Saundra Nelson Cherry
Ms. Sharon P. Scott
Ms. Tina L Vick
Dr. Patricia P. Woodbury

Population (2014) ---------------------------------------- 182,965
Area in Square Miles ----------------------------------- 70
Population Density (2014) --------------------------------- 2,613.8
Population Growth 2009—2014 --------------------------- 1,965
Percent Population Growth 2009-2014 --------------------- 1.1%
Percent Employment Growth 2008-2013 --------------------- -1.0%
Employment (2013) --------------------------------------- 97,306
Unemployment (2014) ------------------------------------- 6.2%
Poverty Rate (2009-2013) -------------------------------- 15.2%
Taxable Value of Real Estate 2013 (Billions) ------------- $14.00
On Time High School Graduation Rate (2014)--------------- 88.0%
Median Household Income (2009-2013)---------------------- $51,027
Norfolk

City Council

- Mayor Paul D. Fraim
- Vice Mayor Angelia Williams Graves
- Ms. Mamie Johnson
- Mr. Andrew A. Protogyrou
- Mr. Paul R. Riddick
- Mr. Thomas R Smigiel Jr.
- Dr. Theresa W. Whibley
- Mr. Barclay C. Winn

Population (2014) ---------------------------------------------- 245,428
Area in Square Miles ------------------------------------------- 54
Population Density (2014) -------------------------------------- 4,545.0
Population Growth 2009—2014 ----------------------------------- 3,703
Percent Population Growth 2009-2014 ---------------------------- 1.5%
Percent Employment Growth 2008-2013 ---------------------------- -5.2%
Employment (2013) --------------------------------------------- 136,409
Unemployment (2014) ------------------------------------------ 6.4%
Poverty Rate (2009-2013) --------------------------------------- 19.2%
Taxable Value of Real Estate 2013 (Billions) --------------------- $17.56
On Time High School Graduation Rate (2014) ---------------------- 78.9%
Median Household Income (2009-2013) ---------------------------- $44,747
## Poquoson

### City Council
- Mayor W. Eugene Hunt Jr.
- Vice Mayor Carey L. Freeman
- Mr. Henry W. Ayer III
- Ms. Traci-Dale Crawford
- Mr. Herbert R. Green Jr.
- Mr. Charles M. Southall III
- Mr. Raymond E. Vernall

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
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Portsmouth

City Council

Mayor Kenneth I. Wright
Vice Mayor Elizabeth M. Psimas
Mr. Paige D. Cherry
Dr. Curtis E. Edmonds Sr.
Mr. Danny W. Meeks
Mr. William E. Moody Jr.
Ms. Marlene W. Randall
Dr. Mark M. Whitaker

Population (2014) ----------------------------------------------- 96,004
Area in Square Miles ------------------------------------------------ 33
Population Density (2014) ---------------------------------------- 2,909.2
Population Growth 2009—2014 ------------------------------------- 620
Percent Population Growth 2009-2014 ------------------------------ 0.7%
Percent Employment Growth 2008-2013 ----------------------------- 3.6%
Employment (2013) ------------------------------------------------ 44,663
Unemployment (2014) --------------------------------------------- 7.1%
Poverty Rate (2009-2013) ----------------------------------------- 18.4%
Taxable Value of Real Estate 2013 (Billions) ---------------------- $7.03
On Time High School Graduation Rate (2014) ----------------------- 85.1%
Median Household Income (2009-2013) ------------------------------ $46,166
Southampton

Board of Supervisors
Chair Dallas O. Jones
Vice Chair Ronald M. West
Dr. Alan W. Edwards
Mr. Carl J. Faison
Mr. S. Bruce Phillips
Mr. Barry Porter
Mr. Glenn H. Updike

Population (2014) ----------------------------------------------- 18,059
Area in Square Miles ------------------------------------------------ 600
Population Density (2014) ---------------------------------------- 30.1
Population Growth 2009—2014 -------------------------------------- -548
Percent Population Growth 2009-2014 ------------------------------- -2.9%
Percent Employment Growth 2008-2013 ------------------------------- -17.1%
Employment (2013) ----------------------------------------------------- 3,567
Unemployment (2014) ----------------------------------------------------- 5.0%
Poverty Rate (2009-2013) -------------------------------------------- 16.0%
Taxable Value of Real Estate 2013 (Billions) ------------------------- $1.70
On Time High School Graduation Rate (2014) ------------------------ 85.5%
Median Household Income (2009-2013) -------------------------------- $46,150
Suffolk

City Council
Mayor Linda T. Johnson
Vice Mayor Leroy Bennett
Mr. Michael D. Duman
Mr. Roger W. Fawcett
Mr. Donald Z. Goldberg
Mr. Timothy J. Johnson
Mr. Curtis R. Milteer Sr.
Mr. Lue R. Ward Jr.

Population (2014) ----------------------------------------------- 86,806
Area in Square Miles -------------------------------------------- 400
Population Density (2014) ---------------------------------------- 217.0
Population Growth 2009—2014 ----------------------------------- 3,158
Percent Population Growth 2009-2014 ----------------------------- 3.8%
Percent Employment Growth 2008-2013 ----------------------------- 5.2%
Employment (2013) ---------------------------------------------- 26,896
Unemployment (2014) -------------------------------------------- 5.8%
Poverty Rate (2009-2013) ---------------------------------------- 11.4%
Taxable Value of Real Estate 2013 (Billions) --------------------- $9.13
On Time High School Graduation Rate (2014) --------------------- 86.4%
Median Household Income (2009-2013) ----------------------------- $66,085

Hampton Roads Benchmarking Study
Surry

Board of Supervisors

Chair Judy S. Lyttle
Vice Chair John M. Seward
Mr. Ernest L Blount
Mr. Kenneth R. Holmes
Mr. Giron R. Wooden Sr.

Population (2014) --------------------------------------------------------------- 6,790
Area in Square Miles --------------------------------------------------------------- 279
Population Density (2014) ---------------------------------------------------------- 24.3
Population Growth 2009—2014---------------------------------------------------------- -247
Percent Population Growth 2009-2014----------------------------------------------- -3.5%
Percent Employment Growth 2008-2013----------------------------------------------- -1.4%
Employment (2013)------------------------------------------------------------------ 2,118
Unemployment (2014)---------------------------------------------------------------- 6.1%
Poverty Rate (2009-2013)------------------------------------------------------------ 11.5%
Taxable Value of Real Estate 2013 (Billions)------------------------------------------ $0.88
On Time High School Graduation Rate (2014)------------------------------------------ 92.9%
Median Household Income (2009-2013)------------------------------------------------ $47,292
Virginia Beach

City Council

Mayor William D. Sessoms Jr.
Vice Mayor Louis R. Jones
Mr. Benjamin Davenport
Dr. Robert M. Dyer
Ms. Barbara M. Henley
Ms. Shannon DS Kane
Mr. John Moss
Dr. Amelia N. Ross-Hammond
Mr. John E. Uhrin
Ms. Rosemary Wilson
Mr. James L. Wood

Population (2014) ................................................................. 450,980
Area in Square Miles ............................................................ 248
Population Density (2014) ...................................................... 1,818.5
Population Growth 2009—2014 .............................................. 15,976
Percent Population Growth 2009-2014 ............................... 3.7%
Percent Employment Growth 2008-2013 ............................. -2.6%
Employment (2013) ............................................................... 169,390
Unemployment (2014) .......................................................... 4.9%
Poverty Rate (2009-2013) ...................................................... 7.9%
Taxable Value of Real Estate 2013 (Billions) ......................... $49.02
On Time High School Graduation Rate (2014) ...................... 88.5%
Median Household Income (2009-2013) .............................. $65,219
Williamsburg

City Council

Mayor Clyde A Haulman
Vice Mayor Paul Freiling
Mr. Scott Foster
Ms. Judith Knudson
Mr. Douglas Pons

Population (2014) ----------------------------------------------- 14,691
Area in Square Miles ------------------------------------------------ 9
Population Density (2014) ---------------------------------------- 1,632.3
Population Growth 2009—2014 ---------------------------------- 1,004
Percent Population Growth 2009-2014 ----------------------------- 7.3%
Percent Employment Growth 2008-2013 ----------------------------- -10.0%
Employment (2013) ----------------------------------------------- 13,593
Unemployment (2014) --------------------------------------------- 7.1%
Poverty Rate (2009-2013) ---------------------------------------- 19.5%
Taxable Value of Real Estate 2013 (Billions) ---------------------- $1.69
On Time High School Graduation Rate (2014) ---------------------- 90.5%
Median Household Income (2009-2013) ----------------------------- $48,616
York

Board of Supervisors
Chair Thomas G. Shepperd Jr.
Vice Chair Mr. George S. Hrichak
Ms. Sheila S. Noll
Mr. Donald E. Wiggins
Mr. Walter C. Zaremba

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<td>Median Household Income (2009-2013)</td>
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Smithfield

Town Council

Mayor T. Carter Williams
Vice Mayor Andrew C. Gregory
Ms. Connie Chapman
Mr. Michael G. Smith
Mr. Milton Cook
Ms. Denise N. Tynes
Mr. Randy Pack

Population (2014)----------------------------------------------- 8,220
Area in Square Miles--------------------------------------------- 10
Population Density (2014)----------------------------------------- 822.0
Population Growth 2009—2014------------------------------------- 1,193
Percent Population Growth 2009-2014 ----------------------------- 17.0%
Percent Employment Growth 2008-2013 ----------------------------- Included in Isle of Wight
Employment (2013) ----------------------------------------------- Included in Isle of Wight
Unemployment (2014) --------------------------------------------- Included in Isle of Wight
Poverty Rate (2009-2013) ----------------------------------------- 13.2%
Taxable Value of Real Estate 2013 (Billions)----------------------- Included in Isle of Wight
On Time High School Graduation Rate (2014)------------------------ Included in Isle of Wight
Median Household Income (2009-2013) ----------------------------- $58,844
Notes

Data Sources:
- Population (2014)- Weldon Cooper Center
- Area in Square Miles– HRPDC
- Population Density (2014)- Weldon Cooper Center, HRPDC
- Population Growth 2009—2014- Weldon Cooper Center, HRPDC
- Percent Population Growth 2009-2014- Weldon Cooper Center, HRPDC
- Percent Employment Growth 2008-2013- Virginia Employment Center, HRPDC
- Employment (2013)- Virginia Employment Commission
- Unemployment (2014)- Virginia Employment Commission
- Poverty Rate (2009-2013)- U.S. Census Bureau American Community Survey
- Taxable Value of Real Estate 2013 (Billions)- Auditor of Public Accounts
- On Time High School Graduation Rate (2014)- Virginia Department of Education
- Median Household Income (2009-2013)- U.S. Census Bureau American Community Survey
Section II

The Economy

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The Hampton Roads Economy

The Hampton Roads economy continues to struggle with the aftereffects of the great recession. The region’s gross product has grown over the past three years and, while it has surpassed 2007 levels, there is a significant output gap at both the national and regional levels when compared to the prerecession trend. Additionally, local growth in gross product and employment has trailed the performance of other metropolitan areas with populations between one and three million. Hampton Roads’ employment currently lags its prerecession peak by just over 23,000 jobs.

Employment in Hampton Roads still derives mainly from military personnel and federal civilians, as well as industries that are related to the Department of Defense. Healthcare employment has experienced significant growth both regionally and nationally, and it is the only industry that added employment continuously throughout the entire recession.

The gap between the national and regional unemployment rate has declined significantly, reflecting the stronger recovery experienced by the country overall. Despite the lack of improvement in the regional unemployment rate, Hampton Roads’ labor market remains relatively tight, and few who want to be employed are unable to find a job. Additionally, the unemployment measure undercounts the strength of the region’s labor market because employed military personnel are not included in the calculation of the unemployment rate.

Regional per capita incomes have returned to the U.S. level after outperforming the country during the initial years of the recession. Most of the income growth in the region has been driven by growth in personal transfers (government benefits), as wage and salary income has declined slightly since 2007.

Overall, the Hampton Roads economy is significant on both the national and international stage, with a gross product similar to some large countries. Additionally, the Hampton Roads economy constitutes about 0.5% of the nation’s economy, income, and population.
Figure 2.1 Hampton Roads Historic Gross Product

Why is it important?
Gross product measures the dollar value of all the goods and services that are produced within a geographic area during a year. Tracking gross product over time illustrates the region’s relative economic performance.

How are we doing?
Between 2001 and 2007, real Gross Product grew at an annualized rate of 3.3%; however, since the recession, the regional economy has grown at a 0.4% annualized rate. This is almost 1/10th the pre-recession level.

Source: Bureau of Economic Analysis, HRPDC

Figure 2.2 Gross Product in Hampton Roads and Reference MSAs

Why is it important?
It is important to understand the relative size of metro economies when making direct comparisons. This graph illustrates the broad range in the size of Hampton Roads’ reference metropolitan areas.

How are we doing?
Hampton Roads’ gross product reflects both the size of the population and the productivity/value added by its industries. As with most metros, the size of the region’s economy is tightly correlated with the size of its population.

Source: Bureau of Economic Analysis, HRPDC
**Figure 2.3 Hampton Roads Gross Product Compared to Foreign Economies**

**Why is it important?**
A comparison of the Hampton Roads economy relative to foreign economies of a similar size provides perspective as to the magnitude and potential influence of the regional market.

**How are we doing?**
Hampton Roads has a world scale economy, comparable to countries such as Ghana, Guatemala, and Serbia. The high level of both output and productivity growth in both the U.S. and Hampton Roads allows this region’s economy to rival those of nations which have significantly larger populations.

**Source:** Bureau of Economic Analysis, CIA Worldbook, HRPDC

---

**Figure 2.4 National and Regional Gross Product Growth**

**Why is it important?**
Comparing the gross regional product to the U.S. Gross Domestic Product provides a benchmark against which one can measure the region’s performance.

**How are we doing?**
The Hampton Roads economy typically grows in tandem with the national economy. The two deviations from this trend were during the combined internet boom and defense cuts of the mid 1990’s and during the most recent economic recovery.

**Source:** Regional Economic Modeling, Inc., HRPDC
Why is it important?
The reference metropolitan areas are subject to many of the same pressures that influence economic conditions in Hampton Roads. Benchmarking local economic growth against growth in competing metros allows one to assess a region’s performance irrespective of market conditions.

How are we doing?
While this region has grown since the advent of the recovery in 2010, that growth has been anemic compared to many similar sized metropolitan areas.

Why is it important?
Employment figures typically track gross product statistics; however, employment statistics are more readily available from a host of reliable sources. It is common practice to use employment information as a general indicator of economic well-being.

How are we doing?
Regional economic growth and employment growth are tightly related, but employment did not experience the growth that gross product did in 2010, perhaps because the defense budget reduced regional investment.
The Economy

**Figure 2.7 Seasonally Adjusted Hampton Roads Employment**

**Why is it important?**
When adjusted for seasonal factors, monthly employment data provide a real time indicator of regional economic activity.

**How are we doing?**
The Hampton Roads economy is struggling to return to the prerecession employment peak of July 2007. Seasonally adjusted employment has gradually increased since February 2010, but remains almost 23,000 jobs below the 2007 levels.

Source: Bureau of Labor Statistics, HRPDC

**Figure 2.8 Hampton Roads Employment Share of U.S. Employment**

**Why is it important?**
The local business cycle influences relative growth rates. Comparing local employment figures to national employment figures reveals how the local business cycle deviates from the national business cycle.

**How are we doing?**
Regional employment constitutes a larger share of national employment during periods of elevated military spending, including the 1980’s and shortly after 9/11. As military spending has declined relative to economic growth, the region’s share of U.S. employment has fallen.

Source: Bureau of Economic Analysis, HRPDC
The Economy

**Figure 2.9 Three-Year Employment Growth in Hampton Roads and Reference MSAs**

**Why is it important?**
A change in the level of regional employment often coincides with growth or declines in regional output. Comparing Hampton Roads to metropolitan areas of a similar size creates an opportunity to assess the competitive strength and growth prospects for the regional economy.

**How are we doing?**
Regional employment growth has lagged that of its reference MSAs, as well as the average growth for U.S. metropolitan areas. While year-to-year performance will vary, a sustained period of weak employment growth signals underlying economic issues.

**Figure 2.10 Public and Private Sector Employment in Hampton Roads**

**Why is it important?**
Stable government employment can insulate an economy from volatile markets. Conversely, changes in government employment can exacerbate or counter market forces.

**How are we doing?**
While private employment fell sharply during the recession, regional government employment has experienced a gradual slow decline. Separating regional employment into these categories does not fully capture the influence of the federal government, as civilian contractors supported by the DoD are considered privately employed.

Source: Bureau of Economic Analysis, HRPDC
Why is it important?
Regional economic behavior is heavily influenced by its sector composition. The current industrial make-up of a region will influence future economic growth.

How are we doing?
Professional and business services, an industry often influenced by government contracting, is the largest regional employment sector. There is also significant employment in healthcare and retail trade.

Why is it important?
Industrial employment is influenced by the business cycle. One can observe local trends by tracking changes in regional industrial employment.

How are we doing?
Hampton Roads employment has grown by 16,100 since 2011, but that recovery has not been experienced equally across all industries. Healthcare employment has continued to grow through both recession and the recovery. Conversely, local government employment and construction employment continue to be impacted by the weak real estate market.
Figure 2.13 Hampton Roads Industrial Location Quotients

Why is it important?
Location Quotients (LQ) identify competitive advantages by comparing regional employment distributions to national employment distributions. LQs greater than one suggest a comparative advantage.

How are we doing?
The regional concentration of military employment continues to be striking, even as the overall number of military personnel in the region continues to fall. It is also notable that Hampton Roads construction employment has a higher concentration than the construction industry nationwide.

Figure 2.14 Hampton Roads Sub-Sector Industrial Location Quotients

Why is it important?
Sub-sector location quotients reveal specific industries that have a high regional concentration. The industries listed all have a location quotient above 1. These sub-sector industries represent the backbone of the private sector economy in Hampton Roads.

How are we doing?
Water transportation, transportation equipment manufacturing, and national security contractors have the three highest private sector industrial location quotients in Hampton Roads indicative of the industry clusters associated with the ports and the defense industry.
**Figure 2.15 Unemployment Rates in Hampton Roads, Virginia, and the U.S.**

**Why is it important?**
Unemployment rates reflect both the general well-being of the labor force and the ability of the labor force to meet the needs of employers. Comparing the regional unemployment rate to the national rate enables one to assess the condition of the regional labor market over time.

**How are we doing?**
Hampton Roads historically has had a low unemployment rate compared to the nation, a trend that has continued throughout the recession; however, the gap fell to the second lowest level on record at the end of 2014.

**Figure 2.16 Employment to Population Ratio in Hampton Roads and Reference MSAs**

**Why is it important?**
Comparing the number of jobs in the economy to the total population indicates how many jobs are supporting the regional economy relative to those not working, which includes children, the retired, and those who are unemployed/out of the labor force for other reasons.

**How are we doing?**
The employment to population ratio in Hampton Roads is just above the national average for metropolitan areas, and within the normal levels for this region’s reference metropolitan areas.
**Figure 2.17 Employment to Population Ratios in Hampton Roads and the U.S.**

**Why is it important?**
Changing employment to population ratios can be the result of either economic or demographic changes. Considering changes in the employment to population ratio will result in a better understanding of the market.

**How are we doing?**
The employment to population ratio has increased since 1971 at both the national and regional level due to women increasingly entering the labor force. It has fallen off its recent peak of 62.5% in 2007 due to both a growing population and weak regional employment growth.

![Employment to Population Ratio in Hampton Roads](source: Bureau of Economic Analysis, HRPDC)

**Figure 2.18 Per Capita Income in Hampton Roads, Virginia, and the U.S.**

**Why is it important?**
Measuring the growth in regional income per person provides insight as to the relative regional economic well-being. This is one indicator of how the average citizens’ incomes have performed over a period of time.

**How are we doing?**
Inflation-adjusted per capita incomes have benefited from a remarkable period of income growth through 2008. The recent recession resulted in incomes declining and regional per capita income took another four years to surpass 2007 levels.

![Per Capita Income](source: Bureau of Economic Analysis, HRPDC)
Why is it important?
Per capita income is the most widely available statistic on economic well-being. Per capita income is estimated by dividing total personal income by the population of the region.

How are we doing?
Hampton Roads per capita income is slightly below the U.S. metro portion average, but the region compares favorably to its reference MSAs.

Figure 2.19 Per Capita Income in Hampton Roads and Reference MSAs

Why is it important?
The cost of living can vary substantially between metropolitan areas. Understanding incomes within the context of the cost of living provides a clearer picture as to real purchasing power parity.

How are we doing?
The cost of living in Hampton Roads is slightly more expensive than many of its reference metro areas, thus the per capita income adjusted for purchasing power performs slightly worse than its unadjusted per capita income.

Figure 2.20 Purchasing Power of Income in Hampton Roads and Reference MSAs
**Figure 2.21 Relative Per Capita Income of Hampton Roads to Virginia and U.S.**

**Why is it important?**
Fluctuations in relative incomes reflect fluctuations in standards of living. It is useful to track how well Hampton Roads performs in relation to the state and the nation.

**How are we doing?**
Hampton Roads per capita incomes levels returned to those of the nation over the past four years, but its performance compared to the Commonwealth’s has held steady over the same period, suggesting the same forces propel growth in incomes for both Virginia and Hampton Roads.

**Figure 2.22 U.S. and Hampton Roads Real Median Family Incomes**

**Why is it important?**
The median family income represents the general well-being of regional households. Families are the fundamental purchasing unit for many products and services.

**How are we doing?**
Real median family incomes have remained fairly constant over the last eight years. Regionally, families have maintained their income levels better than median family income at the national level.
**Figure 2.23 Inflation Adjusted Earnings Per Worker in Hampton Roads and the U.S.**

**Why is it important?**
One indicator of productivity is earnings-per-worker. Employment shifts from low to high paying jobs, along with increased salaries, both suggest increased productivity. Stable employment and slow growth in earnings are both signs of limited productivity.

**How are we doing?**
Real earnings per worker have grown fairly consistently since 1970. Hampton Roads growth in this metric has paralleled that of the nation, catching up to national levels during periods of higher defense spending, including the 1980’s and after 9/11.

![Inflation-Adjusted Earnings Per Worker](chart)

**Figure 2.24 Hampton Roads Income by Source**

**Why is it important?**
It is important to note that there are numerous sources of income for individuals, and while those sources may under/over perform, it is the overall trend in incomes that are important.

**How are we doing?**
Since the onset of the great recession, only Wage & Salary incomes have declined, and while that is the largest income category, strong growth in several other categories, particularly personal transfers, have allowed total incomes in the region to continue to grow.

![Hampton Roads Income by Type](chart)
Section III

Defense Industry

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The Defense Industry in Hampton Roads

The Department of Defense (DoD) serves as the primary driver of the Hampton Roads economy, with impacts through military personnel, military families, federal civilian employees, military contracts, and the numerous veterans who call this region home. The Economic Impact of the Department of Defense in Hampton Roads (Nov 2013) Report estimated that through direct, indirect, and induced impacts, the DoD supports 39.7% of all regional employment.

DoD spending sustained high real levels of spending through the second half of the past decade, but the combination of winding down the wars in Iraq and Afghanistan, budget pressures from the recession, and changing spending priorities will likely cause defense spending to decline both in absolute terms and as a share of GDP. Reflecting the change in national spending, DoD contracting dollars in Hampton Roads have begun to decline in recent years after a strong period of growth between 2001 and 2011.

The number of military personnel in Hampton Roads changes based on strategic needs, but has been generally declining since the end of the Vietnam conflict except for the 1980’s and the beginning of the War on Terror. As military employment has declined, its share of total regional employment and regional incomes have also. Still, some of the decline in military personnel had been replaced by contracting dollars as the military began to employ contractors and local businesses to complete tasks formerly left to uniformed personnel.

The Ship and Boat Building & Repair Industry in Hampton Roads serves as its own sub-cluster within the larger Defense related industries in Hampton Roads. Newport News Shipbuilding remains one of two U.S. shipbuilders capable of building nuclear submarines and the only shipyard in the U.S. capable of building nuclear aircraft carriers. Additionally, there are numerous other shipyards in the region that maintain the U.S. fleet, and are significant employers in Hampton Roads.

The Defense Industry Section of the Benchmarking Study contains 1 map and 13 graphics illustrating the state of the DoD and its impact on this region.
Map 3.1 Military Installations in Hampton Roads

- Camp Peary
- Chesapeake Annex
- Joint Expeditionary Base Little Creek-Fort Story
- Camp Pendleton
- Dam Neck Annex
- NARS Ocean City
- Virginia Beach
- NAF Grimess
- Northwest Annex
- Camp Pendleton
- Dam Neck Annex
- NARS Ocean City
- Virginia Beach
- NAF Grimess
- Northwest Annex

Chesapeake Bay

Hampton Roads Benchmarking Study

39
**Figure 3.1 Cycle of National Defense Spending**

**Why is it important?**
Defense expenditures in Hampton Roads are closely tied to federal defense outlays. National defense spending has a direct impact on the regional economy.

**How are we doing?**
National defense spending increased during the Reagan Administration and fell following the collapse of the USSR. Defense spending began increasing again around the turn of the century, but has contracted recently as a result of the fiscal challenges that face the nation.

Source: Bureau of Economic Analysis, HRPDC

---

**Figure 3.2 Cycle of National Defense Spending as Share of Gross Domestic Product**

**Why is it important?**
Overall levels of defense spending, both in the U.S. and other countries, are often tied to growth in gross product.

**How are we doing?**
Defense spending in terms of gross product has declined significantly since the beginning of the Cold War. This results from a larger U.S. economy and changing government spending priorities. As government healthcare expenses continue to grow, defense spending, as a share of gross domestic product, will likely continue to decline unless the government begins to raise new revenue.

Source: Bureau of Economic Analysis, HRPDC
Figure 3.3 Projected Defense Budget

**Why is it important?**
Defense expenditures are important to the local economy, and the two factors that determine defense spending in the region are the share of U.S. defense spending which comes to Hampton Roads, as well as the overall level of spending.

**How are we doing?**
The Congressional Budget Office projects that U.S. defense spending will remain above the levels proscribed by the Budget Act of 2011 (including sequestration), shown by the red line. While the budget is forecast to experience nominal growth, it is from a smaller base than just a few years ago.

![CBO Projected Defense Outlays, Statutory Budget Caps](chart)

Source: Congressional Budget Office, HRPDC

Figure 3.4 Inflation Adjusted Department of Defense Spending in Hampton Roads

**Why is it important?**
Spending on defense contracts in this region supports a significant portion of regional economic activity. This figure shows the dollars obligated for Department of Defense contracts that were performed in this region.

**How are we doing?**
After a long period of growth in defense contracts performed in this region, the contracting dollars in this region have been declining since 2011, which has contributed to the region’s tepid recovery from the Great Recession.

![Defense Contracts in Hampton Roads](chart)

Source: USA Spending.gov, Consolidated Federal Funds Report, HRPDC
**Figure 3.5 Total Military Personnel in Hampton Roads & the U.S.**

**Why is it important?**
Due to the oversized DoD presence, military personnel have a profound impact on Hampton Roads. The change in the number of military personnel adjusts the region’s requirements for schools, housing, and support services.

**How are we doing?**
The number of military personnel in Hampton Roads fluctuates with the strategic requirements of the nation. After rising briefly with the war on terror, the number of military personnel in Hampton Roads has declined at a steady pace since 2003.

**Source:** Bureau of Economic Analysis, HRPDC

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**Figure 3.6 Military Personnel as a Share of Hampton Roads Total Employment**

**Why is it important?**
One way of measuring the impact of military personnel on the Hampton Roads economy is to compare the relative size of military personnel to regional employment.

**How are we doing?**
Military personnel’s share of regional employment has been on a fairly steady decline since the end of the Vietnam War. This reflects both the generally declining level of military personnel, as well as growth in other types of employment.

**Source:** Bureau of Economic Analysis, HRPDC
**Figure 3.7 Hampton Roads Military Employment Share by Branch**

**Why is it important?**
As the overall Department of Defense budget changes, it affects the different branches in their own unique ways.

**How are we doing?**
The military personnel in this region are heavily tied to the Navy, with 76% of all personnel serving in that branch. This has served the region well recently, as the cuts to personnel have been much heavier to the Army and the Marines than they have to the Navy.

Source: Department of Defense Base Structure Report FY2013, HRPDC

**Figure 3.8 Inflation-Adjusted Military Incomes**

**Why is it important?**
How well compensated the military personnel are in this region has important impacts on military families’ well-being, their ability to participate in the labor market, and their economic impact on the region.

**How are we doing?**
Total military income in the region remained at a high level during the previous decade despite cuts to the number of personnel in the region. This was a result of both increasing salaries and benefits to help retain personnel during the wars in Afghanistan and Iraq.

Source: Bureau of Economic Analysis, HRPDC
**Figure 3.9 Military Incomes as a Share of Hampton Roads Incomes**

**Why is it important?**
Measuring military incomes as a share of the region’s total personnel income quickly shows their ability to support regional business.

**How are we doing?**
Military incomes have been a declining portion of regional incomes, as other sources of personal income in the region have grown in recent years.

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**Figure 3.10 Total Ship Building and Repair Employment in Hampton Roads**

**Why is it important?**
The shipbuilding and repair industry serves as a sub-cluster within the region’s defense industry. This industry provides well-compensated jobs for individuals across the education spectrum.

**How are we doing?**
Regional employment in this industry declined during the 1990’s, but recovered during the past decade reaching 27,800 employed in the ship repair & boat building industry in 2014. This figure does not include those who work at Norfolk Naval Shipyard in Portsmouth, as they are considered federal employees.
**Figure 3.11 Concentration of Ship Building and Repair Employment in Hampton Roads**

**Why is it important?**
The region’s share of national ship building and repair employment indicates the strength of this regional cluster.

**How are we doing?**
Over 20% of U.S. employees in this industry work in Hampton Roads. Additionally, Newport News Shipbuilding is one of two U.S. shipyards that construct nuclear submarines, and the only one that constructs nuclear aircraft carriers.

**Figure 3.12 Ships Based in Hampton Roads and Share of Navy Total**

**Why is it important?**
This shows the relative importance of the Naval Station Norfolk as a base for U.S. Navy vessels. Additionally, the number of ships that are stationed in Hampton Roads has an important relationship to the ship building and repair industry in this region.

**How are we doing?**
This region has a significant number of nearly every major ship type in the U.S. Navy. Additionally, the count of aircraft carriers does not include those that are currently being worked on at Newport News Shipbuilding.
Figure 3.13 Total Contracting for Ship Building and Repair Performed in Hampton Roads

**Why is it important?**
These are dollars obligated by the federal government to companies with ship and boat building NAICS codes.

**How are we doing?**
The region has seen fairly consistent levels of contracting dollars in this industry. It is difficult to use one year data for ship and boatbuilding because shipbuilding dollars allocated in one year can be spent over as many as five years.

*Source: USAspending.gov, HRPDC*
Section IV

The Port

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The Port in Hampton Roads

The Port of Virginia serves as one of Hampton Roads’ three basic sector industries that enable long-term economic growth. It does this by bringing money from around the country and all over the world into the region through handling cargo, and by showcasing this region to major companies and shippers across the globe.

One of the main lenses that we see the port through is in a role of competing with other East Coast ports. Hampton Roads handled 24% of all East Coast foreign trade, by weight, in 2013, but only 11% of the value. While this competition does serve the valuable purpose of encouraging increased efficiency at the port, there are also very real elements of cooperation as major container ships stop at several East Coast ports as part of their trade route. Indeed, all East Coast ports work under the same contract with the longshoreman union.

The absolute levels of trade are a better area of focus when analyzing port statistics, because this is a better measure of the economic importance of this region, to the United States and the world. As trade grows, so will the importance of port regions.

Trade has grown rapidly, both through the region and throughout the world, as both natural and governmental barriers to trade have fallen. Technology has increased the level of trade, both by easing communication and by making shipping faster, more reliable, and less expensive. Also, while recent efforts have slowed, throughout the 80’s and 90’s, great advances to lower trade barriers and quotas went into effect across the globe. Even after the worst economic crisis since World War II, trade has recovered and continues to grow strongly. Total trade has increased more than 550% since 1973 and general cargo has now risen 6% above 2007 levels.

As one would expect from this region’s proximity, Northern Europe continues to play an important role in this region’s exports and imports, but Northeast Asia is also extremely important showing the impact of China, Korea, and others on world trade.

It is also important to note that although total trade has grown at high levels, the total number employed in the transportation industry or in transportation occupations has remained relatively static compared to the gains of trade. This indicates that the economic impact from trade in this region is not directly correlated with port traffic, but is instead predicated on a host of different industries that are enabled by the port.
Source: Virginia Maritime Association, The Ports of Virginia Annual 2014
**Figure 4.1 East Coast Trade Volume Share by Weight**

**Why is it important?**
The Port of Hampton Roads serves a vital role in the region’s economic engine. There is significant competition for port traffic on the East Coast, and this graphic shows how that trade is dispersed among East Coast ports by weight.

**How are we doing?**
Hampton Roads handled 24% of all East Coast foreign trade by weight. Hampton Roads’ trade weight derives mainly from exports with coal accounting for a substantial proportion.

**Source:** American Association of Port Authorities, HRPDC

**Figure 4.2 Hampton Roads Share of East Coast Shipping by Twenty Foot Equivalent Units**

**Why is it important?**
Containerization is shipping freight in containers that easily transfer between trains, trucks, and ships. Since the first U.S. container ship in 1956, they have become the most important method of shipping goods and the industry standard for comparing ports.

**How are we doing?**
Hampton Roads’ share of container traffic has been between 12% and 14% of East Coast traffic since 1990. Many factors impact container traffic at the port, including railway costs and regional demand.

**Source:** Waterborne Commerce Statistics Center, U.S. Army Corp of Engineers, HRPDC
**Figure 4.3 East Coast Trade Volume Share by Value**

**Why is it important?**
Another way of measuring East Coast trade comes from measuring the value of trade at each port. This provides yet another perspective of the importance of trade to the local economy.

**How are we doing?**
Hampton Roads constitutes a lower share of East Coast trade measured by value. This results from the composition of the trade which passes through this region. Higher value goods, such as BMWs shipped through Charleston, would cause a port to have a higher share of traded value versus weight of cargo handled.

**Figure 4.4 Hampton Roads Share of East Coast Foreign Trade by Value**

**Why is it important?**
This graphic illustrates the relative value of Hampton Roads trade versus the value of items traded through all East Coast ports.

**How are we doing?**
Over time the share of goods by value has trended down in Hampton Roads. The slight uptick in share after 2010 could be the result of the Heartland Corridor’s completion and then recovering global trade in 2012.
**Figure 4.5 Vessel Departures from Hampton Roads**

**Why is it important?**
One trend that helps to illuminate the demand for port services comes from the number of vessels that call on Hampton Roads in a particular year.

**How are we doing?**
The number of vessels moving through Hampton Roads is largely tied to the global demand for traded goods and services. One element that has served to weaken this as an indicator is the transition to ever larger sizes of containership, so that even as trade increases, the number of vessels calling on Hampton Roads would not change to the same extent.

Source: Virginia Maritime Association, HRPDC

**Figure 4.6 General Cargo Volumes in Hampton Roads**

**Why is it important?**
General cargo includes both containerized and break-bulk cargo. The ability to attract and manage general cargo measures the port’s productivity and success as an economic engine.

**How are we doing?**
Trade through Hampton Roads increased by a large margin since the early 1980’s, as trade barriers have fallen and communication technology has improved at facilitating commerce. While Hampton Roads’ trade dropped precipitously during the great recession, it has recovered to an equal extent.

Source: Port of Virginia, HRPDC
**Figure 4.7 Hampton Roads Twenty Foot Equivalent Units and World Trade Volumes**

**Why is it important?**
Containerized trade plays a significant role in world trade of goods, and with the exception of build commodities and vehicles (that roll on and off ships), it captures the majority of international trade.

**How are we doing?**
Hampton Roads clearly follows the world trend in trade, and a significant portion of Hampton Roads’ trade growth will likely occur in concert with growth in international trade.

Source: Port of Virginia, Organization for Economic Co-Operation and Development, HRPDC

**Figure 4.8 Coal Loadings in Hampton Roads**

**Why is it important?**
There are three coal piers in Hampton Roads, and the move to exporting coal helped to develop the railroad network in Hampton Roads. Coal still serves as a primary export of this region, as well as a major profit center for the two railroad companies that serve Hampton Roads.

**How are we doing?**
Coal exports depend on the state of the regional economy, the price of alternative sources of energy around the globe, and U.S. demand for coal. Coal exports have expanded in recent years due to a rapid move away from Nuclear.

Source: Virginia Maritime Association, HRPDC
**Why is it important?**
One interesting measure of the port is the source of imports and the destination of exports that flow through Hampton Roads. Measuring these flows by weight is one measure of the level of service provided to trading regions.

**How are we doing?**
Northern Europe and Northeast Asia see the highest percentage of trade by weight, and all of the region’s trade lanes are dominated by exports, likely linked to the region’s coal exports.

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Source: Virginia Maritime Association, HRPDC

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**Figure 4.10 Hampton Roads Trade Lanes by Value**

**Why is it important?**
One interesting measure of the port is the source of imports and the destination of exports that flow through Hampton Roads. Measuring these flows by value indicates the relative importance to the broader economy, and assesses the port’s role as an economic engine.

**How are we doing?**
When measured by value, exports and imports play a more balanced role for Hampton Roads’ trading partners. Northern Europe continues to play a major role as a partner trading through the Port of Hampton Roads.
**Figure 4.11 Top Ten Exports Through Hampton Roads by Value**

**Why is it important?**
Another interesting measure is examining which goods are produced in the United States that are then shipped through Hampton Roads. In cases where these goods are not produced in Hampton Roads, these represent areas of possible economic development.

**How are we doing?**
Machinery is the primary import that moves through the Port of Hampton Roads by value, followed by plastic and pharmaceutical products.

**Figure 4.12 Top Ten Imports Through Hampton Roads by Value**

**Why is it important?**
Determining the most significant imports through the region by value also identifies potential overseas targets for economic development opportunities.

**How are we doing?**
Machinery is the primary import that moves through the port, as well as the primary export, when measured by value. Additionally, this region transports vehicles and electrical machinery.

*Source: Virginia Maritime Association, HRPDC*
**Figure 4.13 Hampton Roads Employment in Transportation by Industry and Occupation**

**Why is it important?**
While many of the previous measures have focused on the cargo that moves through the port, another measure of the economic impact of the port is employment in the transportation industry, or examining the number of jobs in an occupation considered to be in transportation.

**How are we doing?**
Occupational employment in transportation is higher than industry employment, as many jobs that are derived from trade are not necessarily employed by a company in the trade industry.

Source: Regional Economic Modeling Inc., HRPDC

**Figure 4.14 Mode of Transport for Freight Leaving the Port of Hampton Roads**

**Why is it important?**
A measure of the impact of the port on the regional quality of life evaluates what percentage of cargo arriving at the port travels by truck versus by other transportation modes.

**How are we doing?**
Rail transportation has become increasingly important over the last few years. This derives partly from the opening of the Heartland Corridor and better rail links to local ports.

Source: Virginia Port Authority, HRPDC
Section V

Tourism Industry

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The Tourism Industry in Hampton Roads

From the shores of the beaches and waterways to historic treasures, Hampton Roads offers numerous attractions that draw visitors to the region. Beyond the historically significant destinations and geographic/natural attractions, Hampton Roads hosts numerous world-renowned theme parks, sporting events, festivals and cultural events, as well as performing arts, concerts, and conventions that support the region’s tourism industry.

Tourism expenditures are a very important part of the region’s economic fabric as tourism, combined with the defense industry and the ports, account for the lion’s share of the new money that is brought into Hampton Roads. The outside dollars generated by the tourism industry are essentially an “export” of the region’s amenities, sustaining the regional economy through indirect and induced investments.

Leisure and hospitality employment has slightly increased its share of regional employment over the years, indicating that it has been outpacing the regional economy. It is difficult to determine the exact share of employment in leisure and hospitality that derives from tourism, but the density of employment in those industries are higher in Hampton Roads than in many of the region’s reference metropolitan areas.

According to the Virginia Tourism Corporation, the region’s tourism industry has yet to return to its 2007 peak in terms of inflation-adjusted hotel spending and local tax collections. This is due to both the weakness of the economic recovery across the nation, and continued efforts across all tourism destinations to attract visitors. In addition to the weak economy, shrinking federal budgets have reduced business travel throughout the region, reducing the number of hotel stays.

A stronger national economy should help to increase tourism expenditures regionally, but growth will be modest to some degree, as the region’s tourism industry is mature in nature.
**Figure 5.1 Employment in the Hampton Roads Leisure and Hospitality Industry**

**Why is it important?**
The economic impact of the leisure and hospitality industry may be measured through the number employed in the industry regionally.

**How are we doing?**
While it declined slightly with the recession, employment in the Hampton Roads Leisure and Hospitality Industry has grown over the past 23 years, and has increased from 9.8 percent of regional civilian employment to 11.4 percent of employment, indicating that it has increased not only in absolute terms, but also in relative terms for the economy.

Source: Bureau of Labor Statistics, HRPDC

**Figure 5.2 Employment Share of the Leisure and Hospitality Industry**

**Why is it important?**
The intensity of employment in the leisure and hospitality industry indicates where Hampton Roads places among other comparable metropolitan areas with relation to dependence on tourism.

**How are we doing?**
While Las Vegas and Orlando have exceptionally high levels of leisure and hospitality employment density, Hampton Roads derives a greater share of its employment from that industry than all but a few of its competitor cities.

Source: Bureau of Labor Statistics, HRPDC
### Why is it important?
Taxable hotel sales provide a measure of the number of visitors staying in Hampton Roads, as a significant percentage of the region’s tourists stay in resorts.

### How are we doing?
Taxable hotel revenues have been in a steady decline since 2007 when adjusted for inflation, indicating the weakness that the tourism market has undergone since the great recession.

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**Figure 5.4 Tourism Expenditures in Hampton Roads**

### Why is it important?
The Virginia Tourism Corporation produces estimates of the economic impact of tourism in Virginia. As part of this estimate, it attempts to measure the expenditures of tourists in each locality. This indicates the outside dollars that tourists bring into the regional economy.

### How are we doing?
Tourism spending rose to $4.23B in 2013, or 4.8% of the regional GDP. This would indicate that tourism is a significant driver of the regional economy.

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*Source: Virginia Tourism Corporation, HRPDC*
Figure 5.5 Local Tax Revenues from Tourism in Hampton Roads

Why is it important?
Another important measure of the economic impact of tourism looks at the extent to which tourism supports local government services. Often, tax revenues from tourism support both broader services of the government, as well as special projects that are related to the tourism industry.

How are we doing?
Local tax collections from tourism increased to $149 million according to estimates by the Virginia Tourism Corporation. This represents a significant decline from 2006 levels, which were $164M when measured in 2013 dollars.

Hampton Roads Local Tax Collections from Tourism

Figure 5.6 Room Supply Growth in Hampton Roads and U.S.

Why is it important?
Room supply growth measures the growth of tourism capacity in the region. It also measures developers’ expectations of future tourism conditions since investing in hotel rooms signals confidence in the future of the market.

How are we doing?
Supply continued to grow both regionally and nationally during the beginning of the economic crisis. While growth only slowed down nationally, the regional room supply shrunk since 2010, though several projects have been announced which should begin to grow regional supply.
Why is it important?
Measuring annual hotel performance allows for another perspective on the performance of the hotel industry. Healthy hotels have the ability to reinvest in amenities and upgrades maintaining Hampton Roads’ stature as a tourism destination.

How are we doing?
Hotel revenues have declined since 2007 in both real and nominal terms. 2007 was unique in the region because the recession began at the end of the year and it was the 400th anniversary of Jamestown, which likely created a surge of tourism in that year.

Why is it important?
The growth in room revenue indicates revenue growth from room rentals and related sales. While Hotels generate revenues from other services, this measures the growth of tourism in the region.

How are we doing?
While Hampton Roads and Virginia did not experience the one year shock that the nation saw in 2009, the recovery in room revenue has also proved far more tepid. This likely results from decreased travel by the military to this region, as the Department of Defense has cut travel in response to budget pressure.
Section VI

Retail Industry

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The Retail Industry in Hampton Roads

Trade is the backbone of an integrated regional economy because the exchange of goods and services is a primary driver in creating value and providing benefit to market participants. One of the best readily available ways to measure trade is through retail sales. When Hampton Roads’ economy grows, retail sales grow even more rapidly as increased income is quickly passed through to consumption of goods and services. Conversely, during the most recent recession, retail sales shrunk considerably as individuals cut back on their purchases.

Hampton Roads’ retail employment has declined from 93,800 jobs in 2007 to 84,000 in 2010, and has grown to 86,000 in the subsequent 4 years; regional retail employment is still 8.3% below 2007 levels. Retail employment fell despite an increase in retail sales, which grew by 1.1% between 2007 and 2014. This was likely caused by the fact that while retail sales have experienced some recovery from their 12.6% decline, the number of retail establishments in the region has only started growing in 2012, and retailers remain cautious in increasing payrolls until the regional recovery accelerates.

The regional and national retail experience have diverged considerably, and while both Hampton Roads and the U.S. saw proportional decline in retail sales, the U.S. retail recovery proceeded far more robustly than that of the region. Retail sales have increased by 32.2% nationally since March 2009, while Hampton Roads’ retail sales only began increasing after March 2010, growing by 17.4%.

While some of the regional retail sales have been lost to the growth of internet sales, there seem to be other factors at work as well. Despite the continued growth of regional incomes during the recovery, the retail sales industry has likely been held back by the decline in household wealth during the recession.
**Figure 6.1 Employment in the Hampton Roads Retail Industry**

**Why is it important?**
One measure of the economic impact of the retail trade industry comes from counting the number of employees the industry supports in the region.

**How are we doing?**
Regional retail employment fell from its 2007 peak of 93,700 jobs, and has yet to replace those positions. Retail employment has increased by 7.4% since 1990, but during the same period regional employment has increased by 24.2%.

Source: Bureau of Labor Statistics, HRPDC

**Figure 6.2 Distribution of Retail Employment**

**2013 Hampton Roads Retail Employment by Category**

- General Merchandise Stores 26%
- Motor Vehicles & Parts 13%
- Food & Beverage Stores 16%
- Clothing & Clothing Accessories 9%
- Gasoline Stations 6%
- Health & Personal Care Stores 6%
- Furniture & Home Furnishings 3%
- Electronics & Appliance Stores 3%
- Building Material & Garden Equipment 6%
- Miscellaneous Store Retailers 6%
- Nonstore Retailers 2%

**Why is it important?**
The retail sector consists of a variety of sub-sectors, each of which are subject to unique market forces. In order to appreciate how market changes affect the retail industry, it is important to observe the composition of retail employment.

**How are we doing?**
General merchandise, food & beverage stores, and motor vehicles & parts account for the majority of retail employment in Hampton Roads. A myriad of other business categories constitute the other 45% of retail employment.

Source: Virginia Employment Commission, HRPDC
Figure 6.3 Retail Employment as a Share of Total Employment in Hampton Roads and the U.S.

**Why is it important?**
A measure of the importance of retail trade to the regional economy is the share of employment that has been derived from retail sales.

**How are we doing?**
Retail employment as a share of total employment has declined fairly steadily since 1990, reaching 11.4% in 2014. The most significant periods of decline have occurred during recessions, indicating that retail employment tends to be especially sensitive to economic conditions. Retail employment forms a greater share of total employment regionally than in the U.S. as a whole.

Source: Bureau of Labor Statistics, HRPDC

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Figure 6.4 Change in Retail Employment in Hampton Roads and Reference Metro Areas

**Why is it important?**
It is difficult to measure retail sales of a variety of metropolitan areas using government statistics, thus comparing retail employment enables perspective on how different metropolitan areas have performed over time.

**How are we doing?**
Hampton Roads saw a much steeper decline in retail employment than the majority of its reference MSAs. Hampton Roads’ retail employment has declined 8.3% since the start of the recession, which stands in contrast to other regions where employment has begun to recover.

Source: Bureau of Labor Statistics, HRPDC
Figure 6.5 Inflation-Adjusted Taxable Retail Sales and Income

**Why is it important?**
Retail sales and incomes should be closely linked, and generally increase at the same rate, but over short periods of time will diverge significantly.

**How are we doing?**
While Hampton Roads’ incomes have held relatively constant through the recession, retail sales declined significantly and have yet to recover. While it is unclear what has driven this deviation, it probably has its roots in the local decline in household wealth from the housing correction and general weakness in tourism since the start of the recession.

Source: Virginia Department of Taxation, Bureau of Economic Analysis, HRPDC

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Figure 6.6 Monthly Hampton Roads Taxable Sales and U.S. Retail Sales

**Why is it important?**
Indexed sales at the regional and national level should change at the same rate assuming equal economic performance. Divergence between retail sales indicates the relative health of retail and the economy in general.

**How are we doing?**
Hampton Roads’ retail sales began declining earlier than U.S. sales, peaking in March 2007. While retail sales declined to a similar extent, both the national and regional retail sales declined by roughly the same magnitude; regional retail sales have not recovered to the same extent.

Source: Virginia Department of Taxation, U.S. Census Bureau, Bureau of Economic Analysis, HRPDC
Why is it important?
Hampton Roads had 69 different business categories with retail sales in 2013. Measuring the retail sales by type of business offers an alternative understanding of different business category impacts on the regional economy.

How are we doing?
General merchandise stores, which includes department stores as well as businesses such as Walmart and Target, have the largest sales in the region. Grocery stores (food and beverage) and restaurants (food services and drinking places) round out the top three.

Why is it important?
Growth or decline in retail sales by business category indicates how the regional economy is changing and how various business categories have responded to recent economic conditions.

How are we doing?
Health & personal care products spending has grown since the beginning of the recession. Surprisingly, spending on restaurants has also grown through this period, both on a regional and a national level. Other categories have underperformed, including electronics, furniture, and entertainment/discretionary goods.
**Figure 6.9 Retail Establishments in Hampton Roads**

**Why is it important?**
The number of establishments that have taxable sales serves as another indicator of the health of the retail sector. As the economy improves, the number of retail locations should expand.

**How are we doing?**
The number of retail locations declined throughout the recession as businesses closed and new business formation slowed down in this region. The number of retail locations began to increase over the past two years.

![Retail Establishments in Hampton Roads](source: Virginia Department of Taxation, HRPDC)

**Figure 6.10 Retail Sales per Establishment in Hampton Roads**

**Why is it important?**
Retail sales per establishment measures the health of individual retail outlets, although these numbers need to be analyzed carefully, as the prevalence of big box stores versus smaller boutiques can affect this number.

**How are we doing?**
Even as retail sales declined during the recession, retail sales per establishment grew slightly as a result of so many establishments closing throughout the region. This trend has begun to reverse itself as new businesses open.

![Hampton Roads Taxable Sales by Establishment](source: Virginia Department of Taxation, HRPDC)
**Figure 6.11 Internet Sales as a Percentage of Total Retail Sales in the U.S.**

**Why is it important?**
Internet sales are an important part of modern commerce and offer affordable options for many consumers without adequate local retailers. Unfortunately, very few internet retailers directly pay taxes, nor do they hire local workers or pay property taxes to localities.

**How are we doing?**
Internet sales have grown strongly as a share of all U.S. sales since 2000, and now represent almost 7% of all retail sales nationally.

Source: U.S. Census Bureau, HRPDC
Section VII

Hampton Roads Real Estate

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Real Estate in Hampton Roads

Real estate plays a vital role in the economy and constitutes where the citizens and visitors of Hampton Roads live, work, shop, and stay. Hampton Roads real estate remains in a very fragile state since the onset of the great recession in 2007. Construction employment has declined by 15,500 positions since 2005, the peak of residential home building. The number of building permits issued fell from over 11,000 in 2005, to a low of 3,966 in 2010, to just over 5,700 in 2014. The value of permits issued in the region has followed a similar path, as the average value of single family permits decreased by 12.9% between 2007 and 2014 (inflation-adjusted).

Homeownership declined from its peak in 2004, but that resulted from increasing home prices making housing unaffordable. The decline in home prices has made housing more affordable, where a family earning the region’s median income is able to afford 79.0% of homes sold in the fourth quarter of 2014. Mortgage rates are also exceptionally low compared to long-term trends, improving affordability of housing. Unfortunately, reports indicate that credit standards remain exceptionally tight since the onset of the financial crisis, making it difficult for individuals to gain access to credit.

One result of the housing correction and lower home ownership rates has been growth in multifamily construction, as builders take advantage of higher rents relative to the cost of homeownership.

While the vacancy rate of retail space has not increased significantly across the region, it is important to note that all real estate is local, so trends across the region will not necessarily manifest themselves in individual pockets of Hampton Roads. The industrial market vacancy rate remains elevated, despite little growth in industrial square footage over the past five years.

While there has been some recovery in construction, general weakness in the Hampton Roads labor market suggests that the regional housing market will not experience the rapid home price appreciations that has occurred in some of Hampton Roads’ reference metropolitan areas, and the Hampton Roads housing market will continue to engage in a long, slow recovery.
Figure 7.1 Building Permits in Hampton Roads

Why is it important?
Building permit information reflects on the general wellbeing of the residential construction industry. Large increases or decreases in the number of building permits have both social and economic implications.

How are we doing?
Building permits declined rapidly on the eve of the great recession as builders quickly reacted to the looming housing correction. The number of units permitted was higher in 2013, but have typically been around 5,500. Single family homes are typically greater than 75% of all permits issued, but were only 66% of permits in 2014.

Source: U.S. Census Bureau, HRPDC

Figure 7.2 Value of Building Permits in Hampton Roads

Why is it important?
The value of building permits is an excellent indicator of residential construction activity. Both the number and the value of building permits reflect the demand for housing in relation to the price of housing.

How are we doing?
The value of housing permits issued has increased since the housing correction, indicating a level of recovery to the overall housing market. It is important to note that recovery will likely not achieve the levels seen during the housing boom.

Source: U.S. Census Bureau, HRPDC
Figure 7.3 Per Unit Value of Single Family Building Permits in Hampton Roads

Why is it important?
The size and amenities of homes built in the region respond to numerous features, including economic factors, family size, and changing tastes. The cost of building new homes indicates at what price point the market has been operating.

How are we doing?
Inflation-adjusted values peaked in 2007, before declining slightly through the great recession. The value per single family permit has stabilized at just under $200,000 in 2014.

Source: U.S. Census Bureau, HRPDC

Figure 7.4 Pre-Owned and New Construction Home Sales in Hampton Roads

Why is it important?
Regional home sales react to both local and national market pressures. Large increases in new construction sales often point to an increasing population, while increases in housing resales can be attributed to a variety of factors, including economic growth.

How are we doing?
Closings in Hampton Roads contracted significantly during the great recession, with a brief spike related to the home buyer tax credit. Transactions have maintained a higher pace since January of 2013.

Source: Rose and Womble Residential Data Bank, HRPDC
**Figure 7.5 Homeownership Rates in Hampton Roads**

**Why is it important?**
Homeownership was a stated policy goal of the two previous presidential administrations, and is often been considered part of the American dream. Changes in the home ownership rate are driven by new household formation, as well as other demographics changes.

**How are we doing?**
Homeownership peaked in 2003, until rising home prices started to slow down household formation. The home ownership rate has returned to the levels seen in the 90's, and this should result in strong household formation as the population continues to grow.

![Homeownership Rate Chart]

Source: U.S. Census Bureau, HRPDC

---

**Figure 7.6 Construction Employment in Hampton Roads**

**Why is it important?**
Construction employment serves as another measure of the construction industry, and the industry provides opportunities for individuals who decided to forego high levels of education.

**How are we doing?**
Construction employment declined significantly during the housing correction, and has yet to return to the levels seen through the 2000’s.

![Construction Employment Chart]

Source: Bureau of Labor Statistics, HRPDC
**Figure 7.7 Housing Price Index in Hampton Roads, Virginia, and the U.S.**

**Why is it important?**
The FHFA Home Price Index measures repeated sales of homes to capture the true increase in the cost of housing. Rising home values serve as an asset to families, but also represent a rising cost of living for workers regionally.

**How are we doing?**
The interesting factor for housing in Hampton Roads was although it experienced a similar decline to that of the Nation and the Commonwealth from 2007 to 2009, its decline in 2011 was significantly worse.

Source: Federal Housing Finance Agency, HRPDC

**Figure 7.8 Housing Price Index in Hampton Roads and Reference Metropolitan Areas**

**Why is it important?**
Housing is a major component of the cost of living, affecting how the Hampton Roads region can compete for employment with other metro areas. Also, real property taxes are an important part of local government finances, and changes in home values can impact the level of services that a locality can provide.

**How are we doing?**
Hampton Roads home prices declined significantly over the past 6 years compared to other metro areas with populations between 1 and 3 million.

Source: Federal Housing Finance Agency, HRPDC
**Figure 7.9 Housing Opportunity Index**

**Why is it important?**
The ability to purchase housing improves the quality of life by offering individuals the opportunity to take advantage of the benefits associated with homeownership. This index estimates the percentage of homes sold that are affordable to a family earning the region’s median income.

**How are we doing?**
Housing affordability had increased in Hampton Roads as a result of lower home prices, lower interest rates, and steady growth in median incomes. More recently, affordability started declining according to this measure.

![Graph of Housing Opportunity Index](chart)

Source: National Association of Home Builders, Wells Fargo, HRPDC

---

**Figure 7.10 30-Year Conventional Mortgage Rates**

**Why is it important?**
National mortgage rates greatly influence local mortgage rates and the overall affordability of the housing market. Continued low rates allow the market to continue to improve, but any major increase in mortgage rates could greatly impact the housing market.

**How are we doing?**
Mortgage rates have increased from the low levels seen as a result of both decreased demand for loans and accommodative monetary policy after the recession. A significant increase in the rate would impact affordability.

![Graph of 30-Year Conventional Mortgage Rates](chart)

Source: Freddie Mac, HRPDC
Figure 7.11 Gross Leasable Retail Space in Hampton Roads

**Why is it important?**
The availability of retail space reflects market conditions, speculation, and access to real estate.

**How are we doing?**
Hampton Roads has continued to add retail square footage, and has maintained a lower vacancy rate for that retail footage than it saw during the late 90’s and the recession at the beginning of this century.

Figure 7.12 Hampton Roads Industrial Market Vacancy Rate

**Why is it important?**
The industrial market vacancy rate signals the availability of industrial space for area employers. Sudden large changes in the vacancy rate can indicate the arrival or departure of a major employer. Sustained changes are indicative of trends in the industrial market place.

**How are we doing?**
The vacancy rate spiked during the recession, and while it is has declined from the peak in 2009, it still remains elevated above normal levels.
Section VIII

Demographics

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Demographics in Hampton Roads

Hampton Roads was the 37th most populous metropolitan area in 2014, behind San Jose, Austin, and Nashville, but ahead of Providence, Milwaukee, and Jacksonville. The region’s population grew to 1.72 million that year, adding almost 9,000 individuals to the region. While this region’s population growth is steady, it lags several of its reference MSAs. The Hampton Roads region has begun to significantly lag population growth at the national and commonwealth levels since the early 1990’s.

Hampton Roads has consistently had a high level of births relative to deaths in the region, that in theory should lead to a much higher population growth. The region has on average experienced significant out-migration (on average, 500 persons per year for the last 10 years). Since this region has low levels of unemployment, it is theorized that this out-migration is driven by military families that start families in this region, but leave as they exit the military.

The share of the population 65 and older remains fairly small in Hampton Roads, at just 13% in 2014, but this share has increased from 11% in 2007 and 10% in 2000, likely because of both a declining presence of military personnel and the general aging of the national population. While not as significant as in the U.S. overall, this has pushed the region’s dependency ratio to 63.9%, from a low of 61.5% in 2011. The dependency ratio indicates the number of potential dependents (persons 65 and older, as well as minors) an economy needs to support for every person in their prime working age (persons aged 20-65). It has traditionally been difficult for regions with a higher dependency ratio to invest sufficiently and have high levels of economic growth, although several factors can mitigate these risks.

Another interesting change over time has been that the number of females has surpassed males in the region’s population, again likely derived by a decreasing number of military personnel in the region, and the growth of the rest of the population and economy.

With some slight differences, the occupational mix in Hampton Roads mirrors that of the nation, with a slightly higher percentage employed in engineering and architecture occupations, likely related to the needs of the federal presence in the region, including both the Department of Defense and research institutions.
**Figure 8.1 Population of Hampton Roads and Reference Metro Areas**

**Why is it important?**
Population provides a context for understanding many economic and social indicators.

**How are we doing?**
With a population of 1.7 million persons, Hampton Roads is the 37th largest metropolitan area in the country. It was 36th just three years ago, but Nashville has been growing very rapidly for a number of years and recently moved past Hampton Roads in 2011.

![Population Chart]

Source: U.S. Census Bureau, HRPDC

**Figure 8.2 3-Year Population Growth Rate of Hampton Roads and Reference Metro Areas**

**Why is it important?**
Population growth is indicative of the relative attractiveness of a region. Additionally, regions that have a robust economy often have rapid population growth as they attract new residents.

**How are we doing?**
Over the past 3 years, Hampton Roads has grown, but not as quickly as many similar sized metro areas. Some areas that have seen high levels of population growth include Austin, Raleigh, and Richmond, as well as Jacksonville further away.

![Population Growth Chart]

Source: U.S. Census Bureau, HRPDC
Demographics

**Figure 8.3 Population Growth Rates in Hampton Roads, Virginia, and the U.S.**

**Why is it important?**
Population growth tracks closely with other expressions of economic growth. Changes in population can have very significant impacts on employment and income statistics. Smoothing the growth for ten years allows for observation of the underlying trends.

**How are we doing?**
Hampton Roads has seen high levels of population growth when the nation has invested heavily in defense, such as the 1960’s and again at the end of the 1980’s. Since the 1990’s Hampton Roads’ population growth has lagged that of Virginia and the Nation.

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**Figure 8.4 Projected Hampton Roads Population**

**Why is it important?**
While long-term forecasting is not an exact science, it is important to look at potential population growth to estimate the needed infrastructure, housing, and services for the region.

**How are we doing?**
Hampton Roads’ population growth has been very consistent over the long term trend. While there are concerns about the future of defense spending and its impact on population growth, projected growth in employment in the region suggests that the population will continue its slow but steady expansion.
Figure 8.5 Components of Population Change in Hampton Roads

Why is it important?
Changes in regional population are due to births, deaths, and migration. Reviewing the components of population provides a clearer picture as to changes in a region’s demographics.

How are we doing?
Hampton Roads continues to see significant natural increases. While the region’s birthrate is significantly higher than the death rate, several periods of negative migration have prevented the region from experiencing high levels of population growth. A significant number enter and leave the region each year as a result of military orders and deployments.

Figure 8.6 Hampton Roads Population

Why is it important?
Total population indicates the attractiveness of the region in terms of economics and quality of life. Larger populations also mean larger markets, which is important for attracting development and businesses.

How are we doing?
Population has had fairly steady growth throughout the past 53 years, with the only declines coming in 1979 and 1980.
**Demographics**

### Figure 8.7 Age Distribution of Hampton Roads Population

**Why is it important?**

The age distribution of a region’s population has both social and economic implications. It provides insight into the need for family and senior services, as well as indicating the availability of labor. Growing populations have a histogram that looks like a pyramid.

**How are we doing?**

Hampton Roads does not have a rapidly expanding population of minors, but neither does it have a large elderly population. The population grows rapidly for the 20-24 and the 25-29 age groups, and this is related to military personnel stationed in the region.

**Source:** U.S. Census Bureau, HRPDC

### Figure 8.8 Dependency Ratio in Hampton Roads and the U.S.

**Why is it important?**

This illustrates the extent to which the working age population supports dependents (both children and adults). The size of the dependency ratio has a causal link to GDP growth.

**How are we doing?**

The dependency ratio has increased since the onset of the great recession, both nationally and regionally, driven by the baby boomers moving into retirement age. While the population shifts have been small in absolute terms, increasingly fewer workers are supporting a larger population of dependents.

**Source:** Regional Economic Modeling Inc., HRPDC
**Why is it important?**
Men and women require distinctive services, tend to pursue different occupations, and impact the social and economic landscape in a unique manner.

**How are we doing?**
Since 1992, the number of women in Hampton Roads has surpassed the number of men. Females in Hampton Roads now outnumber males by a substantial margin.

**Figure 8.9 Gender Distribution of the Hampton Roads Population**

Source: Regional Economic Modeling Inc., HRPDC

---

**Figure 8.10 Race and Ethnicity in Hampton Roads**

**Hampton Roads Race & Ethnicity, 2013**

- **Why is it important?**
Understanding racial and ethnic diversity is important in order to ensure equal opportunities for all persons. One should employ localized diversity statistics when evaluating regional employment trends.

- **How are we doing?**
Hampton Roads has a significant African American population relative to that of the Nation, as well as a smaller percentage of the population that is of Hispanic or Latino ethnicity than the U.S. average.

Source: American Community Survey, HRPDC
**Figure 8.11 Distribution of Occupations in Hampton Roads**

**Why is it important?**
Employment is often classified by industry, although persons seeking employment typically search by occupation. A single industry can capture significant diversity in workforce needs and potential incomes. Examining the occupational distribution allows for a more precise analysis of the region’s workforce.

**How are we doing?**
Hampton Roads has significant diversity in the occupations available to its residents, ranging from office and administrative jobs that compose 15.4% of the region’s employment to farming, fishing, and forestry that composes 0.1%

---

**Figure 8.12 Comparative Occupation Percentage for Hampton Roads and the U.S.**

**Why is it important?**
The differences between the occupation mix in Hampton Roads and the U.S. indicate some of the differences in the underlying economy. This will also reflect the underlying education levels and areas of potential growth for the Hampton Roads workforce.

**How are we doing?**
Hampton Roads has a greater percentage of its employment concentrated in architecture & engineering as well as construction & extraction than the nation as a whole.

Source: Bureau of Labor Statistics, HRPDC
## Section IX

### Transportation

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Transportation in Hampton Roads

The transportation network in Hampton Roads has garnered considerable attention as aging infrastructure and traffic congestion are closely tied to the economy and quality of life within the region. The recent downturn in the economy has affected many aspects of the Hampton Roads transportation system, with growth in roadway travel coming to a halt and a decrease in air travel from Hampton Roads airports.

Over the last decade, Hampton Roads has experienced a decrease in terms of per capita vehicle miles traveled. In addition, the region also has a lower level of vehicle miles traveled per capita and a lower mean travel time to work than most of the other competitor regions.

In spite of relatively lower amounts of travel per capita in Hampton Roads than in competitor regions, congestion is a significant issue in the area, particularly at the bridges and tunnels. According to INRIX, among competitor regions, only Washington, DC, Baltimore, and Atlanta had a higher INRIX Index (which measures the extra amount of time trips take in each region during congested peak travel periods) than Hampton Roads did in 2011.

Public transportation continues to play a small role in the region when compared to some other areas of similar size due in part to low population density. Norfolk has completed building the region’s first light rail line, running 7.4 miles from Eastern Virginia Medical Center to Newtown Road. Light rail has the capability to impact future land use decisions and encourage increased density in development.
**Figure 9.1 Per Capita Daily Vehicle Miles Traveled in Hampton Roads**

*Why is it important?*
Per capita vehicle miles traveled (VMT) is the industry standard in determining the amount of traffic generated per person. Increased sprawl, higher employment to population ratios, and low transit usage can put upward pressure on a region’s per capita VMT.

*How are we doing?*
Per Capita Vehicle Miles Traveled has declined slightly from its peak in 2003, but overall has been remarkably stable until the recent decline starting in 2011.

*Source: Federal Highway Administration, HRPDC*

**Figure 9.2 Per Capita Daily Vehicle Miles Traveled in Hampton Roads and Reference Metro Areas**

*Why is it important?*
Traffic patterns and congestion have a bearing on regional competitiveness and quality of life. Per capita VMT is a reflection of a region’s commuting distance, density, and transit usage.

*How are we doing?*
When comparing the Vehicle Miles Traveled to this region’s reference metropolitan areas, it indicates that Hampton Roads falls in the middle of vehicle miles traveled per capita.

*Source: Federal Highway Administration, HRPDC*
**Figure 9.3 Annual Hours of Delay Per Auto Commuter in 2012 in Hampton Roads and Reference MSAs**

**Why is it important?**
While VMT refers to the distance traveled, annual hours of delay reflects the degree of congestion. Comparing the annual hours of delay illustrates how local congestion compares with congestion in competing metro areas.

**How are we doing?**
Hampton Roads annual hours of delay is comparable to other similar sized southeastern metropolitan areas that face the same land use decisions.

Source: Texas Transportation Institute, HRPDC

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**Figure 9.4 Annual Hours of Delay Per Auto Commuter in Hampton Roads**

**Why is it important?**
Congestion trends are very important because of the large impact that congestion has on both the cost of businesses and quality of life. Residents and businesses base their estimation of congestion on prior commuting experiences when planning for the future.

**How are we doing?**
Average hours of delay declined both regionally and nationally as a result of the recession, but crept up in Hampton Roads as soon as economic growth returned.

Source: Texas Transportation Institute, HRPDC
**Figure 9.5 Hampton Roads Congestion and Congestion Costs**

**Why is it important?**
Time spent in traffic comes at a cost for both residents and businesses. Increased congestion adds to the cost of doing business and decreases the quality of life.

**How are we doing?**
Congestion costs rose substantially through the nineties. In 2011 congestion costs in Hampton Roads reached $932 million. Continued congestion will inhibit the ability of the Port to be competitive, restrict the flow of tourists, and reduce the quality of life for Hampton Roads residents.

**Source:** Texas Transportation Institute, HRPDC

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**Figure 9.6 Peak Period Travel Time Tax 2013**

*(Measured by the INRIX Index)*

**Why is it important?**
INRIX data combines real-time data from over 4 million GPS-equipped vehicles with traditional sensors to develop a database of traffic speeds and major traffic events. The INRIX Index (formerly the Travel Time Tax) effectively conveys the concept that traffic harms economic activity and vitality in a region.

**How are we doing?**
The data indicates that Hampton Roads has the fifth worst peak period congestion among southeastern regions, and eight worst among MSAs with populations between 1 and 3 million.

**Source:** INRIX Inc., HRPDC
**Why is it important?**
One of the costs of driving that receives less attention than it deserves is the risk of injuries and fatalities.

**How are we doing?**
Fatalities due to traffic crashes in Hampton Roads have averaged 140 per year over the past decade, roughly 8.5 deaths per 100,000 residents. The decrease in the numbers of injuries and crashes can be attributed in part to improved safety standards for both roadways and automobiles, as well as reduced alcohol-related crashes.

Source: Virginia Department of Motor Vehicles, HRPDC

---

**Figure 9.8 Hampton Roads Vehicle Registrations**

**Why is it important?**
Population, the number of licensed drivers, and the availability of automobiles are all factors in determining automobile usage.

**How are we doing?**
As the Hampton Roads population increases, so do the number of licensed drivers. Precipitous growth in the number of registered vehicles has increased the availability of automobiles subsequently increasing the number of vehicles on the road, though that growth has leveled off since the recession.

Source: Virginia Department of Motor Vehicles, Weldon Cooper Center, HRPDC
**Figure 9.9 Transit Passenger Trips in Hampton Roads**

**Why is it important?**
Public transit serves both as primary transportation for those without cars and an alternate source of transportation for commuters. Transit can also help to alleviate roadway congestion. Transit ridership is typically a function of availability, necessity and opportunity.

**How are we doing?**
Passenger trips taken on public transit increased through the latter half of the nineties and again starting in 2007 before declining the past two years.

Sources: Federal Transit Administration, APTA, HRPDC

---

**Figure 9.10 Airport Enplanements at Hampton Roads Major Airports**

**Why is it important?**
As the world inches ever closer to a global economy, access to airports and air travel becomes increasingly important.

**How are we doing?**
Value priced airlines entering the market in the early 2000’s increased competition, both driving down the cost of tickets and increasing the number of enplanements. With airline consolidation and higher fuel costs, increasing ticket prices added to a weaker economy since 2007, the number of enplanements had been declining since their peak in 2005.

Source: Federal Aviation Administration, HRPDC
Figure 9.11 Enplanement Trend in Hampton Roads Compared to the National Enplanement Trend

**Why is it important?**
The market for air travel is influenced by several factors including price and consumer confidence. Referencing national air travel trends provides a context with which to better understand regional air travel.

**How are we doing?**
Regional enplanements have lagged the national trend due to the decline in military travel as a result of federal budget cuts, as well as decreased service to Newport News.

![Local and National Boardings](chart)

Source: Federal Aviation Administration, HRPDC

Figure 9.12 Top Markets for Hampton Roads Airports

**Why is it important?**
This graphic shows the top final destinations and points of origin for air travel to and from this region, showing where there are commerce connections to Hampton Roads.

**How are we doing?**
The destinations that have the greatest number of Hampton Roads trips also have some of the highest populations. One notable exception is Orlando, a tourism hub.

![Top Markets for Hampton Roads Airports](chart)

Source: Federal Aviation Administration, HRPDC
**Figure 9.13 Average One-way Airfare in Hampton Roads & the U.S.**

**Why is it important?**
Price is one of the most significant factors determining air travel demand. Several factors determine prices, including airline competition and oil prices.

**How are we doing?**
Recently Hampton Roads’ average airfares have tracked the national average airfares, signaling that this market has sufficient competition among airlines. As with all air travel, the price of oil will continue to have major impacts on this region’s transportation network.

![Average Airfare in Hampton Roads & the U.S.](image)

Source: Federal Aviation Administration, HRPDC

**Figure 9.14 Local and National Amtrak Ridership Trend**

**Why is it important?**
As increased attention is placed on transit and environmental issues, train ridership continues to be an area of focus with planners.

**How are we doing?**
Hampton Roads’ passenger train ridership grew strongly from 2007 to 2014, outpacing the national growth rate. There was a slight decline in 2014.

![Local and National Amtrak Ridership](image)

Source: Amtrak, HRPDC
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## Section X

### Education in Hampton Roads

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Education in Hampton Roads

The quality of the education provided in Hampton Roads will determine the economic future success of this region; improved educational outcomes enable a higher quality of life for the residents of Hampton Roads.

High school education is important to individual residents, as workers with high school equivalence have lower unemployment rates and higher wages than those who do not have that level of education. Furthermore, concentrated pockets of low education achievement have a significant negative impact when the localities fail to effectively educate residents. Through the past 5 years, Hampton Roads’ graduation rate has steadily grown, reflecting steady progress in the region’s school system. Additionally, the percentage of individuals regionally with at least a high school equivalence is even higher than the graduation rate, reflecting this region’s ability to recruit workers.

College education plays a strong role for the entire region’s growth prospects. The share of college educated workers has been tightly related to income growth regionally, as demonstrated in the July 2011 Hampton Roads Regional Competitiveness report released by the HRPDC. Hampton Roads needs to continue to support the educational institutions located in this region and work with them to ensure that each locality’s high school graduates are ready to engage in the rigor of post-secondary education.

The final two figures in this chapter examine government financing, as the financial burden of education has been spread among the federal, state, and local governments for many years. That burden has shifted, as the state’s contribution for education funding has fallen from 58% regionally in 2000, to 40% in 2014, while the local burden has increased from 34% to 42% over that same time period. Real education funding per pupil has declined throughout the state in response to the budget pressures placed on all levels of government as a result of the great recession.
**Figure 10.1 Graduation Rates in Hampton Roads and Virginia**

**Why is it important?**
Graduation rates are a reflection of a school system’s ability to retain and educate students. High graduation rates prevent uneducated residents from becoming a social burden and contribute to a more educated workforce and an increased quality of life.

**How are we doing?**
Graduation rates in Hampton Roads have consistently underperformed those of the state, but with improved metrics since 2008, the gap is smaller than was previously thought to exist.

**Figure 10.2 Enrolled Students in Hampton Roads**

**Why is it important?**
The number of enrolled students serves as one method of measuring population change. The trend of school enrollments also help to indicate future education needs in the region.

**How are we doing?**
While the public school enrollment in the state has slowly grown, the region has seen a gradual decline in the number of students enrolled in public schools.

Source: Virginia Department of Education, HRPDC
**Figure 10.3 Percent of Population Attaining High School Equivalency or Greater**

**Why is it important?**
An educated workforce has proven to be an excellent path to economic growth and allows for far more flexibility in the regional labor market.

**How are we doing?**
The Hampton Roads population has always outperformed the U.S. as a whole in terms of achieving basic levels of education. A greater share of the region’s population has attained at least high school equivalency than the U.S. as a result of the military and strong employment opportunities that bring educated individuals to Hampton Roads.

[Graph showing percent of population attaining high school equivalency or greater from 1990 to 2013 for Hampton Roads and the U.S.]

Source: U.S. Census Bureau, American Community Survey, HRPDC

**Figure 10.4 High School Equivalence Attainment in Hampton Roads and Reference Metro Areas**

**Why is it important?**
Measuring education attainment in Hampton Roads as compared to the region’s reference metro areas gives an indication of its performance. Where there are concentrations of individuals with low levels of educational attainment, there is often urban decline and lower home values.

**How are we doing?**
Hampton Roads ranks fifth among metropolitan areas with populations between 1 and 3 million.

[Graph showing high school equivalence and greater for the year 2013 for various metropolitan areas]

Source: American Community Survey, HRPDC
**Figure 10.5 College Attainment in Hampton Roads and Reference Metro Areas**

**Why is it important?**
College attainment in a region has been shown to have an impact on income within that region, with higher levels of college attainment causing faster income growth for the entire population.

**How are we doing?**
29.6% of the Hampton Roads population has at least a college degree, equal to the general U.S. population. Hampton Roads ranks 24th among the 35 metro areas with populations between 1 and 3 million.

**Figure 10.6 Population with Professional and Advanced Degrees in Hampton Roads and Reference Metro Areas**

**Why is it important?**
Graduate degrees are often used as a proxy for both productivity and innovation, and indicate a region’s capacity for high level growth.

**How are we doing?**
Hampton Roads ranks 23rd among its 35 reference metro area in terms of population with a graduate or professional degree, and is just below the national average of 11.2% of the population 25 and older having achieved a graduate or professional degree.
**Figure 10.7 College Attainment by Geographic Mobility**

**Why is it important?**
It is important to compare the level of education of those who move into the region with that of those who have longer tenures in Hampton Roads. Typically, people who move from outside a region have higher levels of education than the general populous because more educated individuals have higher levels of mobility.

**How are we doing?**
The percentage who have at least a degree is lower for those who move into Hampton Roads than the nation as a whole. This likely results from enlisted personnel who move in and out of the area.

![College Attainment by Geographic Mobility, 2013](image)

*Source: American Community Survey, HRPDC*

**Figure 10.8 Early Childhood Enrollment**

**Why is it important?**
Early childhood education has been identified by several groups as an area that has been traditionally underinvested in by local and state governments. Tracking pre-kindergarten public enrollment measures the focus placed on this age group in the region.

**How are we doing?**
The number of students enrolled in public preschool expanded rapidly in 2007-2008 at both the state and regional level, but sense has gradually declined in the region.

![Early Childhood Public Education](image)

*Source: Virginia Department of Education, HRPDC*
**Figure 10.9 Number of Enrolled Students at Regional Colleges and Universities**

**Why is it important?**
The share of college educated individuals in a region has been shown to have a strong correlation to income growth and economic development in the region. Strong educational opportunities in the region help to introduce motivated students from around the country to this region, as well as providing opportunities to local students.

**How are we doing?**
This region has a diverse selection of public and private colleges, as well as a strong community college system.

**Hampton Roads Higher Education Enrollment, 2014**

<table>
<thead>
<tr>
<th>Hampton Roads Institution</th>
<th>Undergraduate</th>
<th>Graduate/Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Dominion University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College of William and Mary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norfolk State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regent University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christopher Newport University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hampton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virginia Wesleyan University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Virginia Medical School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tidewater CC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas Nelson CC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paul D Camp CC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Enrollment: 0, 5,000, 10,000, 15,000, 20,000, 25,000, 30,000

Source: Virginia Department of Education, HRPDC

**Figure 10.10 Percentage of Community College Credits Devoted to Remedial Coursework**

**Why is it important?**
This measure examines the percentage of remedial credits that students who are less than 12 months out of a Virginia high school have to take at regional community colleges. This is a measure of college preparedness for regional high schools, as it is likely the majority of these students attended high school in Hampton Roads.

**How are we doing?**
A majority of credits taken at the region’s community colleges are remedial, for students who are within 12 months of achieving high school equivalency.

**Source:** Virginia Department of Education, HRPDC
**Figure 10.11 Distribution of K-12 Education Financing in Hampton Roads**

**Why is it important?**
It is important to see the range of funding sources that support the region’s schools. In Virginia, the local, state, and federal governments all share the burden of funding education.

**How are we doing?**
42% of all education spending comes from local sources, marking an increase from 2000 when local financing constituted 34% of education financing. During that time period, state support has shrunk considerably. In the rest of the Commonwealth, the localities contribute an average of 52% of education funding, and that state’s share is only 33%.

**Figure 10.12 Inflation-Adjusted Per Pupil Expenditures in Hampton Roads and Virginia**

**Why is it important?**
Figure 10.8 illustrates the cost of education in the region per public school pupil, as well as the relative priorities of the region.

**How are we doing?**
Per pupil education expenditures have declined in real (inflation-adjusted) terms since 2009, as the recession placed the budgets of local government throughout the Commonwealth under pressure. The Commonwealth as a whole spends slightly more per pupil than does Hampton Roads.
Section XI.

Government Finances

Figure 11.1 Hampton Roads Real Per Capita Local Revenues ................................................. 107
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Government Finances in Hampton Roads

It is easy to undervalue the contributions of local governments to the functioning of the day to day lives of the citizens of Hampton Roads. While significant attention has been given to federal and state issues, local governments provide for public schools, public safety, water and sewage, local roads, and a host of other services.

The majority of local revenues comes from both real property and personal property taxes. In 2010, 50% of local revenues were generated from the real property tax. On the other hand, personal property tax provided a more significant share of the revenue in the 90’s, but declined as a result of Governor Gilmore’s push to decrease car taxes. By 2014, personal property taxes were 9% of local revenues, and real property taxes had fallen to 46% of local revenues.

Another important measure of local finances derives from per capita spending on services. As with the state as a whole, the majority of local spending is devoted to education, averaging $1,636 per capita in 2014, down from $1,937 per capita in 2009 (inflation adjusted). Other major categories include public safety ($562 per capita), health & welfare ($309), and public works ($251).

Hampton Roads spends significantly more on a per capita basis on public works (+49.9%), parks and recreation (+45.0%), and public safety (+12.6%) as compared to the average Virginia locality. Overall, Hampton Roads spent 5.3% more per capita in 2014 than the average Virginia locality.

While local revenues indicate how much money is raised locally, it does not indicate the ability to raise taxes or the burden on local residents. The Commission on Local Government issues an annual fiscal stress report to measure the revenue capacity, revenue effort, and relative median income of each locality. An area whose revenue effort exceeds its revenue capacity, i.e. whose tax revenues are higher than the incomes from average tax rates, would be considered fiscally stressed and might be potentially overburdening their community if they attempted to increase revenues.

The median fiscal stress of the 16 Hampton Roads localities was 100.4 in 2013, indicating that its localities were slightly more stressed than the average Virginia localities. The un-weighted mean was slightly higher at 100.6. Many of the more stressed communities are in cities, which is common as they provide higher levels of service than the state as a whole, and thus collect higher levels of taxes.
Figure 11.1 Hampton Roads Real Per Capita Local Revenues

Why is it important?
Local governments generate revenues from a host of different sources. Virginia state law limits the taxation options that are available to governments, requiring localities to concentrate their revenue efforts.

How are we doing?
The majority of Hampton Roads’ local government revenues are generated from real and personal property taxes. Other taxes, such as the BPOL tax and the utility tax, contribute significantly as well. Local government revenues have experienced significant reductions in recent years.

Figure 11.2 Hampton Roads Real Per Capita Property Tax Collections

Why is it important?
The majority of local government revenues are generated from real and personal property tax collections. As a result, local government expenditures are sensitive to variability in either category.

How are we doing?
Real per capita property tax collections increased by 56% between 2000 and 2009, but have declined by 14.2% since the housing correction. This decline was driven by both falling home prices and the impact from lowering the property tax rate during the housing boom.
**Figure 11.3 Hampton Roads Real Per Capita Local Spending by Category**

### Why is it important?
Local governments provide a variety of services to their citizenry. The provision of services is based on federal and state mandates and the demands from residents and businesses. Services are constrained by limited government revenues.

### How are we doing?
Over half of all local government expenditures in Hampton Roads are spent on education. Recent decreases in revenues have reduced funding for public works and other projects.

---

**Figure 11.4 Real Per Capita Spending in Hampton Roads and Virginia**

### Why is it important?
The per capita expenditures by local government and Virginia give a benchmark for local spending in the context of state averages.

### How are we doing?
Generally, local expenditures for the Commonwealth and the region have followed the same pattern. Regional spending exceeded that of the state every year since 1992.

---

*Source: Auditor of Public Accounts, Weldon Cooper Center, Bureau of Labor Statistics, HRPDC*
**Figure 11.5 Per Capita Expenditure by Category in Hampton Roads and Virginia**

**Why is it important?**
Looking at localities per capita spending by category for the state and the region allows for analysis of relative priorities and costs of various functions within the region.

**How are we doing?**
Education sees the highest level of spending at the state and regional level, though the per capita level is slightly higher for the Commonwealth. All other categories track fairly closely, with public safety and public works realizing slightly higher levels of spending in the region.

**Source:** Auditor of Public Accounts, Weldon Cooper Center, Bureau of Labor Statistics, HRPDC

---

**Figure 11.6 Median and Average Fiscal Stress in Hampton Roads**

**Why is it important?**
The Commission on Local Government reports on the fiscal condition of Virginia’s localities on an annual basis. This Report includes a fiscal stress index that measures the comparative revenue capacity, revenue effort, and median incomes of all Virginia localities. A score of 100 indicates an average level of stress.

**How are we doing?**
The composite level of fiscal stress in the region declined between 2003 and 2011, driven by increasing median incomes and home price appreciation leading to higher revenue capacity in the region.

**Source:** Commission on Local Government, HRPDC
**Figure 11.7 Hampton Roads Real Per Capita Local Revenues by Source**

**Why is it important?**
Money available for local expenditures comes not only through local taxation, but also through taxes paid to the state and federal government which are then paid to local governments.

**How are we doing?**
State and local monies are the most important source of funds for regional localities. Over time, the share of the contributions have remained relatively unchanged; however, this does not account for numerous unfunded mandates that the state has placed on local governments.

**Figure 11.8 Sources of Municipal Revenues in Hampton Roads Fiscal Year 2013**

**Why is it important?**
A static view of the sources of revenue gives a clearer understanding of the current sources of funds for local governments in Hampton Roads.

**How are we doing?**
Local revenues and taxes constitute 57% of all funds available to governments in Hampton Roads, and this is little changed since 1988. In total, the relative share of funding has remained remarkably constant over the past 25 years.
## Section XII

### Quality of Life

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Quality of Life in Hampton Roads

When one focuses on economic or demographic growth, it is easy to overlook the importance of quality of life to the residents of Hampton Roads. All of these other measures are essentially ways of measuring the happiness and opportunities available in this region, and growth that does not enhance the quality of life of this region’s current residents should not be a goal.

Unfortunately, many of the measures of quality of life are difficult to quantify. This includes the quality of amenities and cultural experiences in the region, the sense of community that exists throughout Hampton Roads, and the happiness of its residents.

Other indicators that are related to quality of life have been spread throughout this study, including measures of income and employment, education, and transportation, just to name a few. This section tries to quantify some of the other measures of the region that did not fit in the other sections of this study.

Cost of living is obviously a significant factor in the lives of the citizens of Hampton Roads, and has been used in other graphics to better compare income across metro areas. Hampton Roads’ cost of living has now fallen close to the National urban area average, and this has been driven by the decline in housing prices.

The level of crime also impacts life in Hampton Roads, and following the national trend, the level of violent crime in Hampton Roads has been steadily falling for a number of years.

Measures of disability, inequality, and poverty indicate issues that may confront Hampton Roads, and increasingly local government policy choices will include how to support and enable those in the community who are facing an added set of challenges.

Lastly, two measures of air quality attempt to evaluate the environment in the region. The region continues to improve on most environmental indicators.
**Figure 12.1 Hampton Roads Cost of Living**

**Why is it important?**
Variations in the cost of living are not constant across the country but can vary by commodity from region to region and city to city.

**How are we doing?**
According to the most recent ACCRA survey, the cost of living in Hampton Roads is just above the urban average, and the region’s costs are above the national urban area average in Utilities, Miscellaneous Goods and Services, and Healthcare.

**Figure 12.2 Violent Crime Rate in the U.S. and Hampton Roads**

**Why is it important?**
Crime statistics are a reflection of social conditions and quality of life. Crime trends reflect underlying social issues, including inequality and lack of opportunity.

**How are we doing?**
The rate of violent crime in Hampton Roads tends to be below the national average. The crime rate in both Hampton Roads and the Nation have been falling consistently for a number of years.

*The FBI did not report data for Hampton Roads in 2009*
### Why is it important?
The disability rate measures the number of persons in a region that have additional challenges that need to be accommodated.

### How are we doing?
The civilian disability rate for Hampton Roads was 11.4% in 2013, lower than many of this region’s reference MSAs.

---

### Why is it important?
The Gini coefficient measures a region’s inequality by comparing it to a theoretical perfect equality scenario. The greater the inequality in the region, the higher the gini coefficient will be.

### How are we doing?
Hampton Roads has an extremely low level of inequality, with the lowest gini coefficient of its reference group of metro areas. The strong opportunities provided to individuals with a high school education likely contributes to the low level of inequality in the region.
**Figure 12.6 Poverty Status in Hampton Roads and Reference Metro Areas**

**Why is it important?**
Impoverished persons lack the means to acquire adequate food, clothing, and shelter. Poverty rates are indicative of a region’s ability to combat the social and economic conditions that result in poverty.

**How are we doing?**
Historically, poverty rates in Hampton Roads tended to follow the national trend. The region’s poverty rate has been below the national average since 1997. The poverty rate had stayed flat in Hampton Roads while it rose nationally, but since 2008 the poverty rate in this region has begun to increase.

Source: U.S. Census Bureau Small Area Income and Poverty Est., HRPDC

**Figure 12.6 Poverty Status in Hampton Roads and Reference Metro Areas**

**Why is it important?**
High levels of poverty creates significant issues for the city, as individuals in poverty contribute less in tax revenue, but consume a higher level of services than an average resident.

**How are we doing?**
Hampton Roads has a relatively low level of poverty compared to its reference group.

Source: American Community Survey, HRPDC
**Quality of Life**

**Figure 12.7 Air Pollutants in Hampton Roads**

**Why is it important?**
The Environmental Protection Agency and the Virginia Department of Environmental Quality (DEQ) monitor air quality to protect the health and welfare of the public.

**How are we doing?**
Hampton Roads is in compliance with all four of the air pollutants that are tracked by the DEQ. The only standard where Hampton Roads has had problems meeting the standard is with ozone, where the summer’s weather pattern can significantly impact its formation.

![Ozone Levels in Hampton Roads Compared to the Primary Standard - 3 Year Moving Average](chart)

**Source:** Virginia Department of Environmental Quality, HRPDC

---

**Figure 12.8 Ozone Levels in Hampton Roads Compared to the Primary Standard - 3 Year Moving Average**

**Why is it important?**
According to the National Institute of Environmental Health Sciences, short-term exposure to ambient ozone can have serious health implications.

**How are we doing?**
The U.S. increased the air quality standard for ozone, lowering the acceptable level to 75ppb (versus 80ppb); this tighter standard has moved Hampton Roads barely out of compliance in 2008 and again in 2012.

![Ozone Levels in Hampton Roads](chart)

**Source:** Virginia Department of Environmental Quality, HRPDC
Section XIII

Local Comparisons

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Local Comparisons in Hampton Roads

This section graphically compares the localities of Hampton Roads across a variety of social, economic, and demographic indicators.

Population, population density, and population growth help to determine the character of the locality and shape the challenges that localities will encounter as they engage in planning.

Per capita income, employment, and unemployment provide a basic economic picture to assist in understanding each of the localities. Employment and high per capita income provide resources to the locality, while high levels of unemployment demand a greater level (and different types) of services that the locality would otherwise need to provide. The poverty rate indicates the support needs of the local population. The poverty rate and median household income also indicate the financial well-being of the citizens of the localities, as a few high-income individuals can skew per capita earnings figures.

Annual retail sales give an excellent indication of the level of economic activity in the region and individual localities.

Assessed value of real estate gives an indication of a locality’s housing market, and along with property tax rates, indicate potential revenues for each city. These indicators along with the per capita measures of local revenues and total local spending allow one to develop a snapshot of a locality’s finances.

The fiscal stress measure compares a locality’s revenue effort to its revenue capacity, and includes relative median income. Cities and counties with fiscal stress above 100 are imposing a higher burden on their communities than the state average, while those with scores below 100 are imposing a lower burden than the state average.

Lastly, as education remains the area of highest expenditures by localities, and the most important role in terms of cultural and economic outcomes, the last graphic compares the on-time graduation rate of each jurisdiction in Hampton Roads.
**Figure 13.1 Population Estimates**

**Why is it important?**

Higher population allows the cost of government services to be spread across more individuals and can allow for more representation at the General Assembly. High population also demands greater investments.

![Graph showing population estimates for various locations in Hampton Roads.](Image)

Source: Weldon Cooper Center for Public Policy, HRPDC

**Figure 13.2 Population Density Per Square Mile**

**Why is it important?**

Population density indicates both the room for development within a locality, as well as giving a guide to the type of development that exists currently: urban, suburban, or rural.

![Graph showing population density per square mile for various locations in Hampton Roads.](Image)

Source: Weldon Cooper Center for Public Policy, HRPDC
**Local Comparisons**

**Hampton Roads Benchmarking Study**

**Figure 13.3 5-Year Net Population Growth**

**Why is it important?**
The raw population growth shows how quickly a locality is growing, which is very important for planning what new infrastructure the city or county, and the Hampton Roads region overall, will require.

![5-Year Population Growth](image)

Source: Weldon Cooper Center for Public Policy, HRPDC

**Figure 13.4 5-year Population and Employment Growth Rate**

**Why is it important?**
Population growth and employment growth are usually linked within the region and localities. Raw growth is important for calculating immediate infrastructure requirements. Growth rate is important for long term projections on the changing nature of a locality.

![5-Year Population and Employment Growth Rates](image)

Source: Weldon Cooper Center for Public Policy, Virginia Employment Commission, HRPDC
Local Comparisons

**Figure 13.5 Per Capita Income**

Why is it important?
Per Capita Income is a basic measure of well-being within a locality. As a simple average, a locality could have a higher per capita income while still having a significant number of low income families.

![Per Capita Income Chart]

Source: Bureau of Economic Analysis, Virginia Department of Taxation, HRPDC

**Figure 13.6 Unemployment Rate**

Why is it important?
The unemployment rate indicates the number of individuals in a locality who are looking for jobs but unable to find them. This serves as an indicator of the conditions that a local population experiences. Labor market dynamics can vary substantially across jurisdictions and should be considered when making direct comparisons between each individual locality.

![Unemployment Rate Chart]

Source: Virginia Employment Commission, HRPDC
**Why is it important?**

Employment measures the number of jobs that are located within a locality, rather than the number of people within the locality who have jobs. This indicator helps to identify the location of job centers.

**Source:** Virginia Employment Commission, HRPDC

---

**Figure 13.8 Poverty Rate (5-Year Average)**

**Why is it important?**

Individuals and families below the poverty line form the most vulnerable part of the region’s population, and thus require a high level of support services. A high poverty rate will also require different types of interventions than might be needed in a community with a lower poverty rate. In 2013, the poverty line for a family of four was $23,624.

**Source:** U.S. Census Bureau, American Community Survey, HRPDC
**Figure 13.9 Median Household Income (5-Year Average)**

**Why is it important?**
Median income serves as another measure of the well-being of a community. While per capita incomes will be skewed higher because of high earners, median household income indicates the income level at which half earn more and half earn less.

![Median Household Income Graph](image)

Source: U.S. Census Bureau, American Community Survey, HRPDC

**Figure 13.10 Annual Retail Sales**

**Why is it important?**
Retail sales indicate the level of economic activity in the region, and include the impacts of not only employment and income, but also the residents’ confidence about economic opportunities in the future. Retail stores tend to cluster in shopping centers, and this contributes to the high level of sales in some of the region’s localities.

![Retail Sales Graph](image)

Source: Virginia Department of Taxation, HRPDC
Why is it important?
Taxable real estate includes the fair market value of land and structures within a locality that are not exempt from property taxes. Adjusting this for the population within a locality indicates a combination of the desirability of real estate in that locality, the underlying economic conditions, and the revenue generating capacity of the locality.

Source: Virginia Department of Taxation, HRPDC

Why is it important?
Property owners in Hampton Roads pay a variety of different tax rates depending on the locality in which their property is located. Additionally, a number of localities have special tax districts or additional local levels that pay for a specific service. Generally, the tax rate will be lower in counties than in cities because of the difference in both the level of services offered and the density of infrastructure that requires maintenance.

Source: Weldon Cooper Center for Public Policy, HRPDC
**Why is it important?**

Local revenues are the direct contributions of regional citizens and businesses to the municipalities. These revenues come from diverse sources including personal property taxes, service fees, retail sales taxes, and public service corporation taxes.

![Figure 13.13 Per Capita Local Revenue](image)

Source: Virginia Auditor of Public Accounts, HRPDC

**Figure 13.14 Per Capita Total Expenditures by Localities**

**Why is it important?**

It is important to control expenditures for the size of a locality’s population, as more populous cities will spend more because of their population. The funds for these expenditures includes transfers from the Commonwealth, direct federal aid, federal pass through funds, and local revenues. Local revenues constitute between 45% (Southampton) and 75% (Surry) of local expenditures.

![Figure 13.14 Per Capita Total Expenditures by Localities](image)

Source: Virginia Auditor of Public Accounts, HRPDC
Why is it important?
Fiscal stress indicates the tax burden that a locality has in place, as well as its capacity to raise additional revenue. The average score for Virginia localities is set to 100, and thus localities with scores above that value would be considered burdened. Fiscal stress measures the revenue effort of a locality in relation to its revenue capacity, while also incorporating its median income.

Source: Virginia Commission on Local Government, HRPDC

Figure 13.15 Fiscal Stress

On-Time Graduation Rates, Class of 2014

Why is it important?
Education remains the number one priority for most localities, receiving the highest levels of funding, as well as having a significant impact on the quality of life. The on-time graduation rate measures how many freshmen from the region were able to graduate within four years (including other forms of high school equivalency).

Source: Virginia Department of Education, HRPDC
Section XIV

Final Notes

The Hampton Roads Regional Benchmarking Study for 2015 takes a multi-faceted look at a variety of regional socioeconomic indicators. The document covers numerous diverse topics and provides context to better understand the region’s performance. It is our sincere hope that this document will enable a more global perspective of regional well-being, assist in decision-making processes, and inspire further analysis.

The information included in this report is updated on a regular basis by the HRPDC staff and available electronically to the public free of charge. Feedback on making this document more clear and effective is gratefully appreciated, as are recommendations for additional benchmarks. If you have any questions, concerns, or feedback on this report, please contact HRPDC Senior Economist James Clary (jclary@hrpdcva.gov) or HRPDC Chief Economist Greg Grootendorst (ggrootendorst@hrpdcva.gov).

The complete benchmarking report, as well as individual sections, and excel spreadsheets with the relevant data tables are all available for download at: http://www.hrpdcva.gov/page/benchmarking/.

Printed and bound copies are available for $25 on request.