

ITEM #15: 2045 SOCIOECONOMIC FORECAST: *Greg Grootendorst, HRPDC*

SUMMARY:

Development of the Socioeconomic Forecast for the 2045 Long-Range Transportation Plan.

Mr. Greg Grootendorst, HRPDC Chief Economist, will brief the HRTPO Board on this item.

BACKGROUND:

One of the first steps in the development of the Long-Range Transportation Plan (LRTP) is to conduct a regional socioeconomic forecast to serve as input data for the HRTPO's Travel Demand Model.

The long-range forecast must include estimates for the region's population, households, employment, workers, and passenger vehicles. As part of the forecast process, HRPDC Chief Economist Greg Grootendorst met with planning staff from each of the localities to discuss future development assumptions and verify current comprehensive planning documents.

Attachment 15

RECOMMENDED ACTION (Action to be taken under Meeting Agenda Item #21-I):

Approve the final forecast.

Hampton Roads 2045 Socioeconomic Forecast

Hampton Roads 2040 Socioeconomic Forecast

Approved by the HRTPO Board – November 2012



Population Totals for Hampton Roads

| | 1970 | 1980 | 1990 | 2000 | 2010 | 2015 | Forecast 2045 |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Southside | 775,253 | 849,550 | 1,018,986 | 1,085,471 | 1,152,606 | 1,196,615 | 1,416,015 |
| Chesapeake | 89,580 | 114,486 | 151,982 | 199,184 | 222,209 | 238,283 | 317,206 |
| Franklin | 6,880 | 7,308 | 7,864 | 8,346 | 8,582 | 8,535 | 8,751 |
| Isle of Wight Co. | 18,285 | 21,603 | 25,053 | 29,728 | 35,270 | 36,438 | 52,417 |
| Norfolk | 307,951 | 266,979 | 261,250 | 234,403 | 242,803 | 247,189 | 263,837 |
| Portsmouth | 110,963 | 104,577 | 103,910 | 100,565 | 95,535 | 96,874 | 97,752 |
| Southampton Co. | 18,582 | 18,731 | 17,550 | 17,482 | 18,570 | 18,551 | 20,218 |
| Suffolk | 45,024 | 47,621 | 52,143 | 63,677 | 84,585 | 90,426 | 129,682 |
| Surry Co. | 5,882 | 6,046 | 6,145 | 6,829 | 7,058 | 6,819 | 7,374 |
| Virginia Beach | 172,106 | 262,199 | 393,089 | 425,257 | 437,994 | 453,500 | 518,777 |
| Peninsula | 333,140 | 364,449 | 435,197 | 342,893 | 513,704 | 529,162 | 608,070 |
| Gloucester Co. | 14,059 | 20,107 | 30,131 | 34,780 | 36,858 | 37,072 | 41,252 |
| Hampton | 120,779 | 122,617 | 133,811 | 138,437* | 137,436 | 138,626 | 139,207 |
| James City Co. | 17,853 | 22,339 | 34,859 | 48,102 | 67,009 | 73,325 | 120,741 |
| Newport News | 138,177 | 144,903 | 171,439 | 180,150 | 180,719 | 183,454 | 189,962 |
| Poquoson | 5,441 | 8,726 | 11,005 | 11,566 | 12,150 | 12,359 | 12,637 |
| Williamsburg | 9,069 | 10,294 | 11,530 | 11,998 | 14,068 | 14,860 | 18,341 |
| York Co. | 27,762 | 35,463 | 42,422 | 56,297 | 65,187 | 69,466 | 85,930 |
| Hampton Roads | 1,108,393 | 1,213,999 | 1,454,183 | 1,428,364 | 1,666,310 | 1,725,777 | 2,024,085 |

Source of historical data: U.S. Census Bureau, Weldon Cooper Center, and HRPDC (*denotes adjusted value)

Hampton Roads 2040 Socioeconomic Forecast

Approved by the HRTPO Board – November 2012



Number of Households in Hampton Roads

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

Source of historical data: U.S. Census Bureau

Hampton Roads 2040 Socioeconomic Forecast

Approved by the HRTPO Board – November 2012



Number of Vehicles in Hampton Roads

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

Source of historical data: Virginia Department of Motor Vehicles

Hampton Roads 2040 Socioeconomic Forecast

Approved by the HRTPO Board – November 2012



Number of Workers in Hampton Roads

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

Source of historical data: U.S. Census Bureau

Hampton Roads 2040 Socioeconomic Forecast

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Employment by Place of Work

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

Source of historical data: Bureau of Economic Analysis, Virginia Employment Commission, and HRPDC

Hampton Roads 2040 Socioeconomic Forecast

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Retail Employment in Hampton Roads

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

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

Hampton Roads 2040 Socioeconomic Forecast

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Office Employment in Hampton Roads

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

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

Hampton Roads 2040 Socioeconomic Forecast

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Industrial Employment in Hampton Roads

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

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

Hampton Roads 2040 Socioeconomic Forecast

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Other Employment in Hampton Roads

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

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