

# Hampton Roads Regional Safety Study

General Crash Data and Trends - 2007 Update



T07-11

## HAMPTON ROADS PLANNING DISTRICT COMMISSION

### CHESAPEAKE

REBECCA C.W. ADAMS  
AMAR DWARKANATH  
\* CLIFTON E. HAYES, JR.  
WILLIAM E. HARRELL  
ELLA P. WARD

### FRANKLIN

JOSEPH J. SCISLOWICZ  
\* ROWLAND L. TAYLOR

### GLOUCESTER COUNTY

JOHN J. ADAMS, SR.  
\* WILLIAM H. WHITLEY

### HAMPTON

\* RANDALL A. GILLILAND  
ROSS A. KEARNEY, II  
JESSE T. WALLACE, JR.

### ISLE OF WIGHT COUNTY

W. DOUGLAS CASKEY  
\* STAN D. CLARK

### JAMES CITY COUNTY

\* BRUCE C. GOODSON  
SANFORD B. WANNER

### NEWPORT NEWS

CHARLES C. ALLEN  
\* JOE S. FRANK  
RANDY W. HILDEBRANDT

### NORFOLK

ANTHONY L. BURFOOT  
\* PAUL D. FRAIM  
DR. THERESA W. WHIBLEY  
REGINA V.K. WILLIAMS  
BARCLAY C. WINN

### POQUOSON

\* CHARLES W. BURGESS, JR.  
GORDON C. HELSEL, JR.

### PORTSMOUTH

KENNETH L. CHANDLER  
\* DOUGLAS L. SMITH

### SOUTHAMPTON COUNTY

ANITA T. FELTS  
\* MICHAEL W. JOHNSON

### SUFFOLK

LINDA T. JOHNSON  
\* JAMES G. VACALIS

### SURRY COUNTY

\* TYRONE W. FRANKLIN  
JUDY S. LYTTLE

### VIRGINIA BEACH

HARRY E. DIEZEL  
ROBERT M. DYER  
BARBARA M. HENLEY  
\* LOUIS R. JONES  
MEYERA E. OBERNDORF  
JAMES K. SPORE  
JOHN E. UHRIN

### WILLIAMSBURG

\* JACKSON C. TUTTLE, II  
JEANNE ZEIDLER

### YORK COUNTY

\* JAMES O. McREYNOLDS  
THOMAS G. SHEPPERD, JR.

\*EXECUTIVE COMMITTEE MEMBER

## PROJECT STAFF

ARTHUR L. COLLINS

EXECUTIVE DIRECTOR/SECRETARY

DWIGHT L. FARMER  
CAMELIA RAVANBAKHT  
KEITH NICHOLS

DEPUTY EXECUTIVE DIRECTOR, TRANSPORTATION  
PRINCIPAL TRANSPORTATION ENGINEER  
SENIOR TRANSPORTATION ENGINEER

ROBERT C. JACOBS  
MICHAEL R. LONG  
BRIAN MILLER  
RACHAEL V. PATCHETT

DIRECTOR OF GRAPHIC & PRINTING SERVICES  
GRAPHIC ARTIST/ILLUSTRATOR TECHNICIAN II  
GRAPHIC TECHNICIAN II  
REPROGRAPHIC SUPERVISOR

# **HAMPTON ROADS REGIONAL SAFETY STUDY:**

## **GENERAL CRASH DATA AND TRENDS – 2007 UPDATE**

This report was included in the Work Program for Fiscal Year 2007-2008, which was approved by the Commission and the Metropolitan Planning Organization at their meetings of March 21, 2007.

**PREPARED BY:**



**OCTOBER 2007**

## REPORT DOCUMENTATION

**TITLE:**

Hampton Roads Regional Safety Study:  
General Crash Data and Trends

**REPORT DATE**

October 2007

**GRANT/SPONSORING AGENCY**  
FHWA/VDOT/LOCAL FUNDS

**AUTHOR:**

Keith M. Nichols

**ORGANIZATION NAME,  
ADDRESS AND TELEPHONE**

Hampton Roads Planning  
District Commission  
723 Woodlake Drive  
Chesapeake, Virginia 23320  
(757) 420-8300  
<http://www.hrpdcva.gov>

### ABSTRACT

In 2001 the Hampton Roads Planning District Commission (HRPDC) initiated the Hampton Roads Regional Safety Study, a comprehensive analysis of highway safety throughout the region. This report updates the General Crash Data and Trends portion of the Hampton Roads Regional Safety Study. Trends are analyzed for crashes, injuries and fatalities on a regional and jurisdictional level for those localities within the HRPDC. Comparisons are also made with statewide and national data.

### ACKNOWLEDGMENTS

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

## TABLE OF CONTENTS

<b>REPORT DOCUMENTATION.....</b>	<b>I</b>
<b>QUICK CRASH FACTS.....</b>	<b>iii</b>
<b>INTRODUCTION .....</b>	<b>I</b>
<b>TRAFFIC CRASHES .....</b>	<b>2</b>
Hampton Roads Traffic Crashes.....	3
Hampton Roads Traffic Crashes by Jurisdiction .....	3
Hampton Roads Traffic Crash Rates .....	4
Virginia Traffic Crash Rates .....	4
Hampton Roads Crashes – Number of Vehicles.....	5
Virginia Crashes - Trucks.....	5
Hampton Roads Crashes – Crash Type .....	6
Hampton Roads Crashes – Time of Day.....	6
Hampton Roads Crashes – Day of Week.....	7
Hampton Roads Crashes – Month of Year .....	7
Hampton Roads Crashes – Driver Action.....	8
Virginia Crashes – Driver Action .....	8
Hampton Roads Crashes in Work Zones.....	9
Hampton Roads Alcohol-Related Crashes.....	9
<b>TRAFFIC CRASH INJURIES .....</b>	<b>10</b>
Hampton Roads Injuries .....	11
Hampton Roads Injuries by Jurisdiction.....	11
Hampton Roads Injury Rates.....	12
Virginia Injury Rates.....	12
Hampton Roads Injuries – Crash Type.....	13
Hampton Roads Alcohol-Related Injuries .....	13
<b>TRAFFIC CRASH FATALITIES .....</b>	<b>14</b>
Hampton Roads Fatalities.....	15
Hampton Roads Fatalites by Jurisdiction .....	15
Hampton Roads Fatality Rates .....	16
Virginia Fatality Rates .....	16
Hampton Roads Fatalities – Crash Type .....	17
Hampton Roads Alcohol-Related Fatalities.....	17
<b>APPENDIX.....</b>	<b>18</b>
Hampton Roads Crash Data, 1997 - 2006.....	19

## In Hampton Roads there were.....

**32,019 traffic crashes** reported in 2006. This amounts to 88 crashes every day of the year, or one crash every 16 minutes.

**16,026 injuries** resulting from traffic crashes in 2006. This amounts to 44 injuries due to traffic crashes every day of the year, or one injury every 33 minutes.

**141 fatalities** resulting from traffic crashes in 2006. That is an average of one fatality every 2.6 days.

**2.23 crashes per million vehicle-miles of travel** between 2004 – 2006. This is down from 2.44 crashes per million vehicle-miles of travel between 1995 – 1997.

**1.16 injuries per million vehicle-miles of travel** between 2004 – 2006. This is down from 1.64 injuries per million vehicle-miles of travel between 1995 – 1997.

**0.94 fatalities per 100 million vehicle-miles of travel** between 2004 – 2006. This is down from 1.19 fatalities per 100 million vehicle-miles of travel between 1995 – 1997.

**2,454 traffic crashes that involved alcohol** in 2006. This is one out of every 13 crashes.

**39 fatalities resulting from crashes that involved alcohol** in 2006. 28% of all traffic crash fatalities in 2006 were the result of crashes that involved alcohol.

## INTRODUCTION

In 2001 the Hampton Roads Planning District Commission (HRPDC) initiated a comprehensive study examining highway safety throughout the region. That effort, titled the Hampton Roads Regional Safety Study, analyzed general crash data and trends on a regional and jurisdictional level, the locations of crashes throughout the region, and crash countermeasures for high crash locations.

This report updates the General Crash Data and Trends portion of the Hampton Roads Regional Safety Study through the year 2006. Similar to previous updates, trends are analyzed for crashes, injuries and fatalities on a regional and jurisdictional level for those localities within the HRPDC (see map below). Comparisons are also made with statewide and national data.

### Hampton Roads Planning District Commission Jurisdictions



# TRAFFIC CRASHES

HAMPTON ROADS TRAFFIC CRASHES

TRAFFIC CRASHES BY JURISDICTION

HAMPTON ROADS TRAFFIC CRASH RATES

VIRGINIA TRAFFIC CRASH RATES

NUMBER OF VEHICLES

TRUCKS

CRASH TYPES

DRIVER ACTION

DAY OF WEEK

MONTH OF YEAR

TIME OF DAY

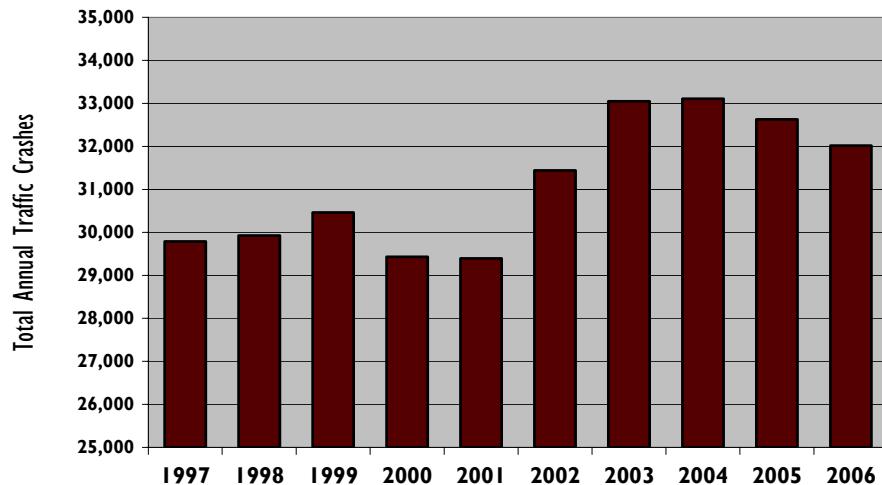
CRASHES IN WORK ZONES

ALCOHOL-RELATED CRASHES



## HAMPTON ROADS TRAFFIC CRASHES

## Hampton Roads Annual Traffic Crashes\*, 1997-2006



Data source: Virginia DMV.

\* A reported traffic crash according to the Virginia Department of Motor Vehicles includes all crashes on public roadways that involve a fatality, injury, or estimated property damage of at least \$1,000.

## HAMPTON ROADS

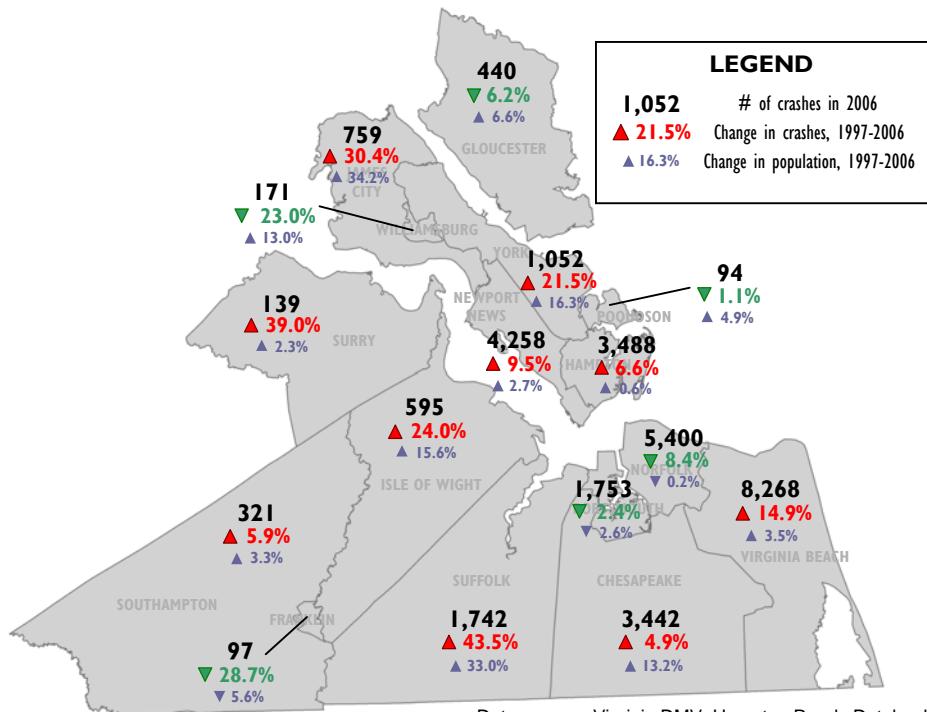
There were 32,019 traffic crashes reported in Hampton Roads in 2006. This is an average of 88 crashes every day of the year, or one crash every 16 minutes. Although the number of crashes in Hampton Roads in 2006 is higher than it was during the late 1990s, the number of crashes has decreased over 3% since 2004.

## VIRGINIA

The number of crashes statewide increased by 17% between 1997 and 2006, outpacing the growth in Hampton Roads (7%) during this time.

## TRAFFIC CRASHES BY JURISDICTION

## Traffic Crashes and Trends by Jurisdiction, 1997-2006



Data source: Virginia DMV, Hampton Roads Databook.

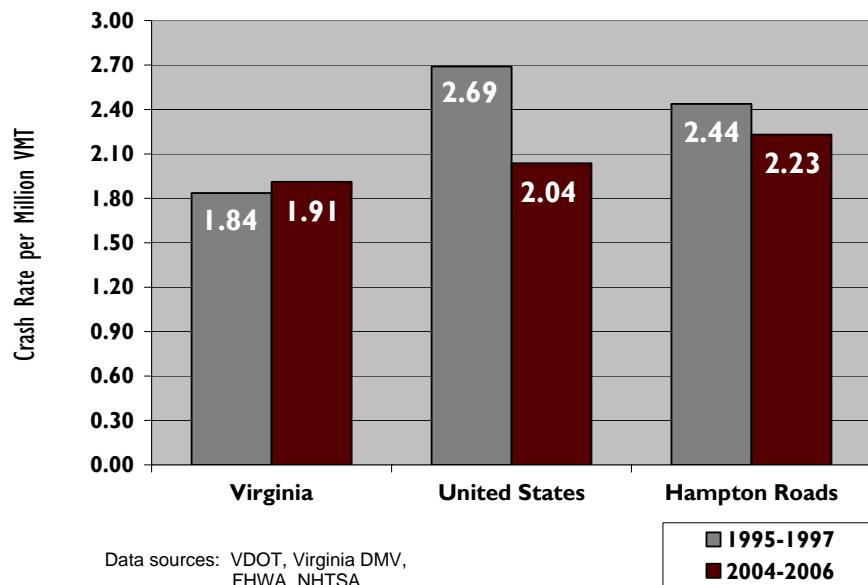
## HAMPTON ROADS

Of the 16 jurisdictions in Hampton Roads, 10 experienced an increase in crashes between 1997 and 2006. Suffolk had the largest percentage increase in crashes (+43.5%), and Franklin had the largest percentage decrease in crashes (-28.7%).

9 of the 16 Hampton Roads jurisdictions experienced higher growth in the percentage of traffic crashes than their population growth between 1997 and 2006.

## HAMPTON ROADS TRAFFIC CRASH RATES

## Traffic Crash Rates in Hampton Roads, Virginia, and the United States, 1995-1997 and 2004-2006



## HAMPTON ROADS

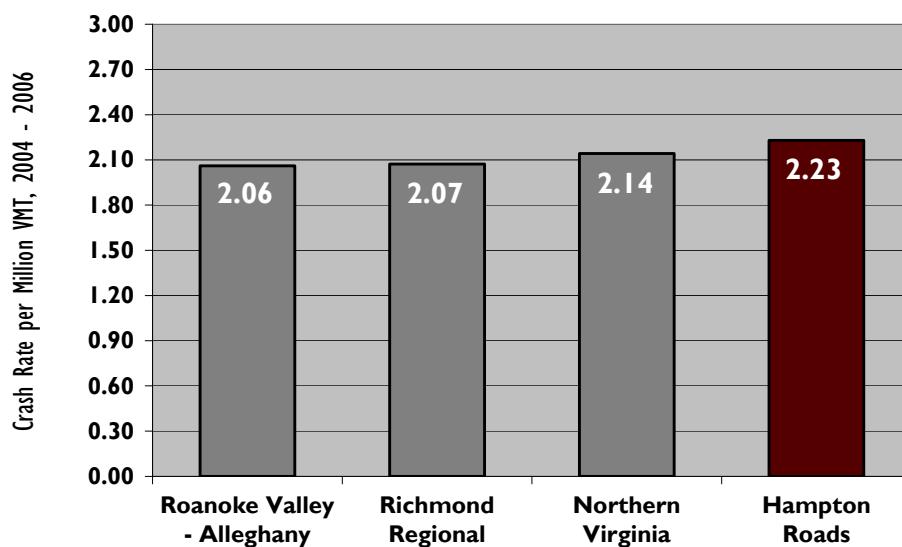
The traffic crash rate in Hampton Roads was 2.23 crashes per million vehicle-miles of travel between 2004 and 2006. This rate decreased 9% from 1995 – 1997, when the crash rate in Hampton Roads was 2.44 crashes per million vehicle-miles of travel.

## VIRGINIA &amp; USA

The traffic crash rate was higher in Hampton Roads than in Virginia and the United States between 2004 and 2006, although the crash rate increased across the state of Virginia between the mid-1990s and the mid-2000s.

## VIRGINIA TRAFFIC CRASH RATES

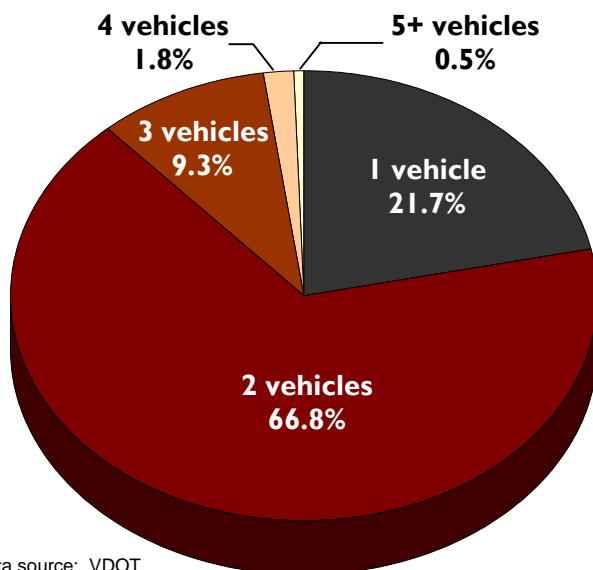
## Traffic Crash Rates in Selected Virginia Planning Districts, 2004-2006



## VIRGINIA PDCs

Hampton Roads had a higher crash rate than the Northern Virginia, Richmond Regional, and Roanoke Valley-Alleghany planning districts between 2004 and 2006. All four planning districts had higher crash rates than the statewide average of 1.91 crashes per million VMT.

## HAMPTON ROADS CRASHES – NUMBER OF VEHICLES

Hampton Roads Crashes by Number of Vehicles Involved  
2004-2006

Data source: VDOT.

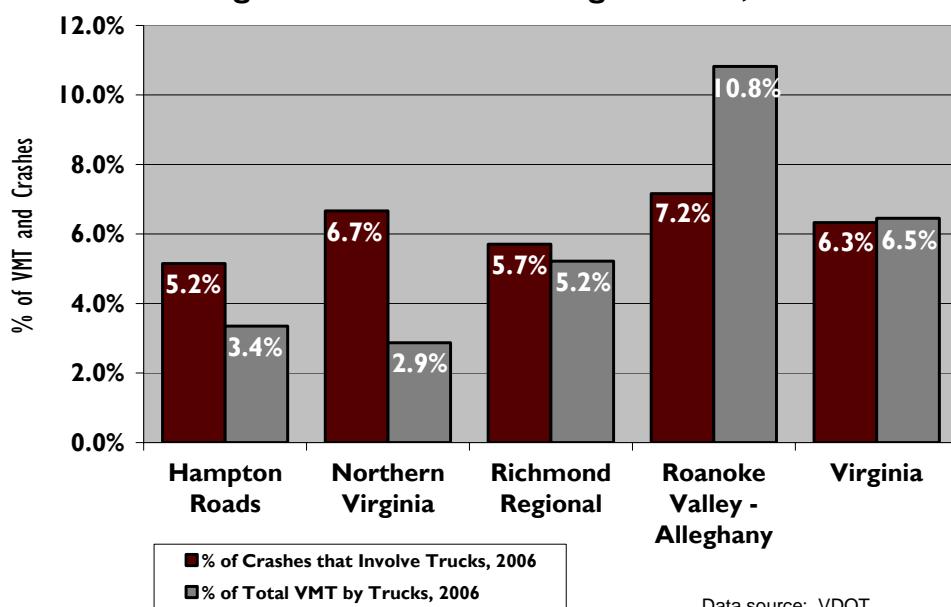
## HAMPTON ROADS

Two-thirds of all crashes in Hampton Roads between 2004 and 2006 involved two vehicles. 22% of all crashes regionwide involved a single vehicle, and almost 12% involved three or more vehicles.

## VIRGINIA

Single vehicle crashes were much more prevalent statewide (29.6%) than in Hampton Roads between 2004 and 2006, while two vehicle crashes were less prevalent statewide (61.0%).

## VIRGINIA CRASHES – TRUCKS

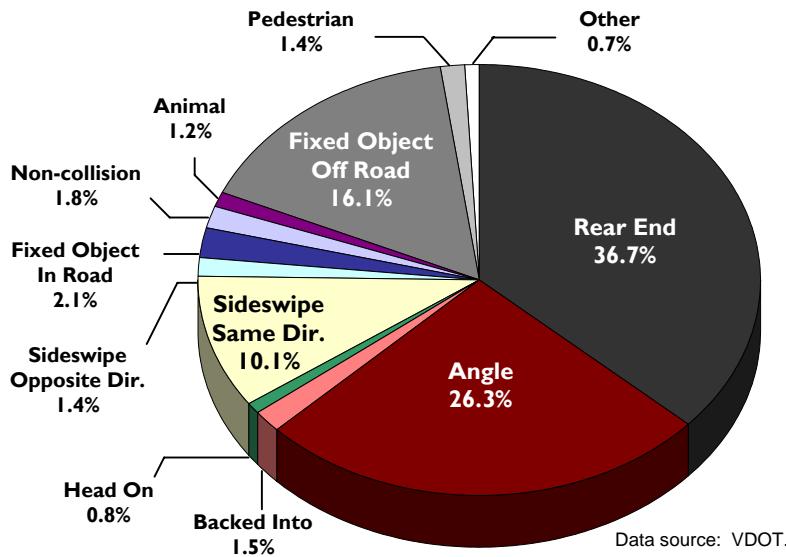
Percentage of Crashes and VMT that Involve Trucks,  
Virginia and Select Planning Districts, 2006

## VIRGINIA

In 2006, 5.2% of all traffic crashes in Hampton Roads involved trucks, and 2.8% of all vehicles involved in crashes were trucks. The percentage of crashes that involved trucks was lower in Hampton Roads than in Virginia and the Northern Virginia, Richmond Regional, and Roanoke Valley-Alleghany planning districts. However, only Northern Virginia had a greater discrepancy between the percentage of crashes that involved trucks and the percentage of travel by trucks.

Data source: VDOT.

## HAMPTON ROADS CRASHES – CRASH TYPE

Hampton Roads Crashes by Type  
2004-2006

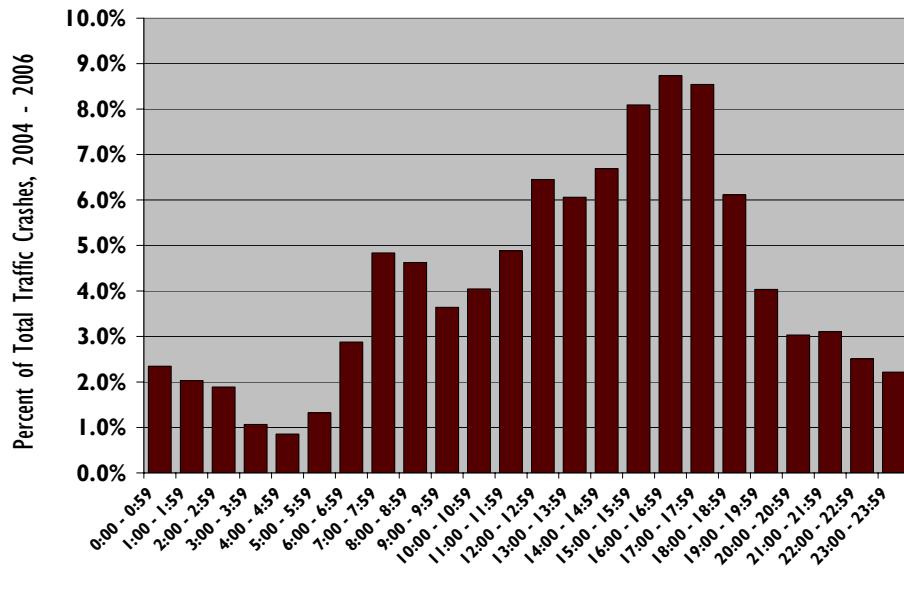
## HAMPTON ROADS

The primary crash types in Hampton Roads between 2004 and 2006 were rear end crashes (36.7%), angle crashes (26.3%), and fixed objects off the roadway surface crashes (16.1%).

## VIRGINIA

Similar to Hampton Roads, the primary crash types statewide between 2004 and 2006 were also rear end crashes (31.3%), angle crashes (23.1%), and fixed objects off the roadway surface crashes (20.8%).

## HAMPTON ROADS CRASHES – TIME OF DAY

Hampton Roads Traffic Crashes by Time of Day  
2004-2006

## HAMPTON ROADS

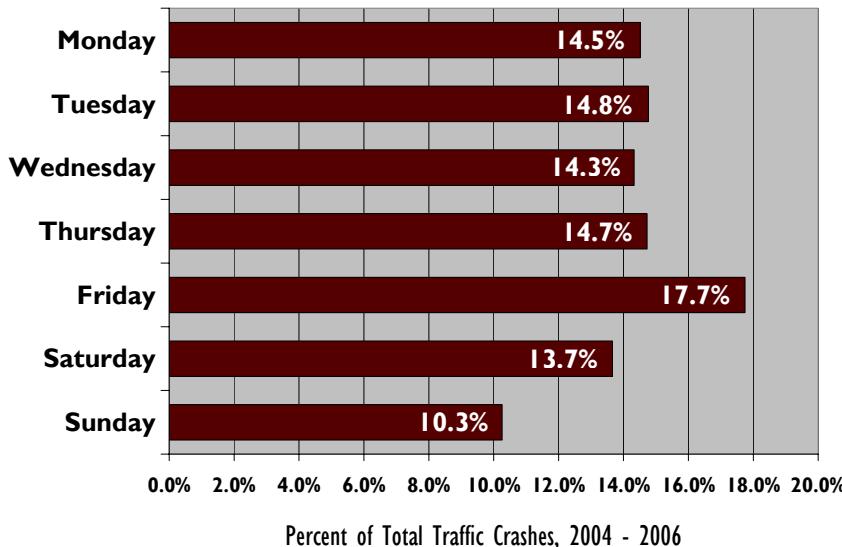
Between 2004 and 2006, the hours with the highest percentage of crashes in Hampton Roads were during the afternoon peak travel period, between 3 pm and 6 pm. Over 25% of all crashes in Hampton Roads occurred during these three hours of congested travel.

## VIRGINIA

The hours with the highest percentage of crashes statewide were also between 3 pm and 6 pm. Between 2004 and 2006, 24% of all crashes statewide occurred during this afternoon peak travel period.

## HAMPTON ROADS CRASHES – DAY OF WEEK

### Hampton Roads Traffic Crashes by Day of Week, 2004-2006



Data source: VDOT.

### HAMPTON ROADS

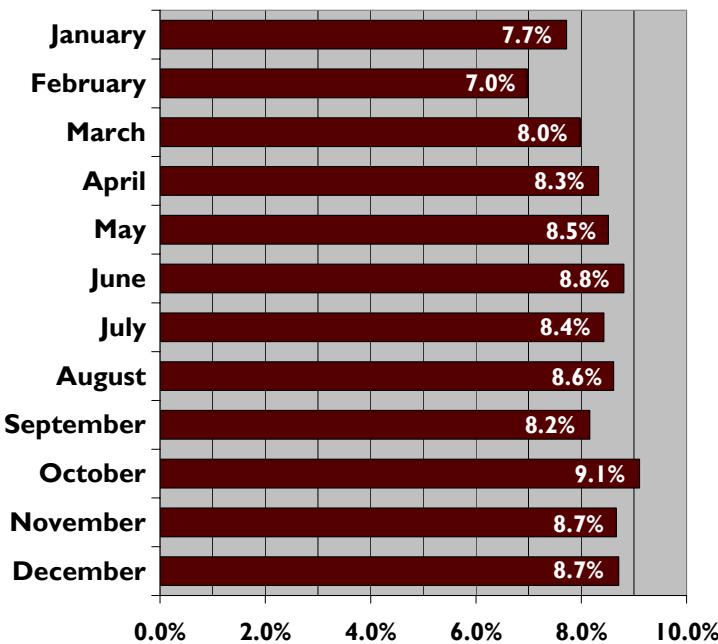
Friday, which has more travel than any other day of the week, also has a higher percentage of crashes (17.7%) than any other day of the week in Hampton Roads. Mondays through Thursdays had a similar number of crashes, with weekend days having a lower number of crashes.

### VIRGINIA

Friday was also the day with the most crashes statewide (17.7%) between 2004 and 2006.

## HAMPTON ROADS CRASHES – MONTH OF YEAR

### Hampton Roads Traffic Crashes by Month of Year 2004-2006



Data source: VDOT.

### HAMPTON ROADS

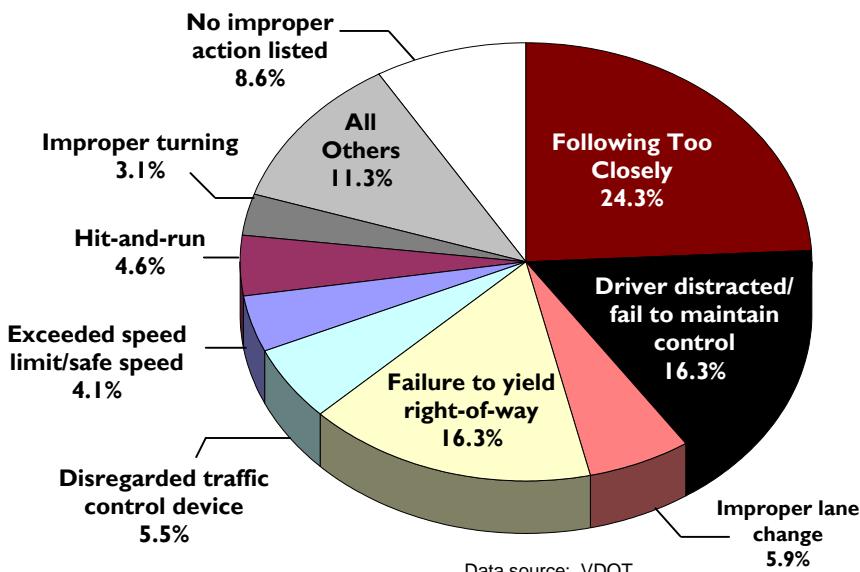
The month of October had the most traffic crashes in Hampton Roads between 2004 and 2006. The fall months of October through December (as well as the month of June) had the highest number of crashes, while the winter months of January through March had the lowest number of crashes.

### VIRGINIA

The month of October also had the most traffic crashes statewide between 2004 and 2006. The fall months of October through December also had the highest number of crashes statewide, while the winter months had the lowest number of crashes.

## HAMPTON ROADS CRASHES – DRIVER ACTION

## Driver Actions Preceding Traffic Crashes in Hampton Roads, 2004-2006



## HAMPTON ROADS

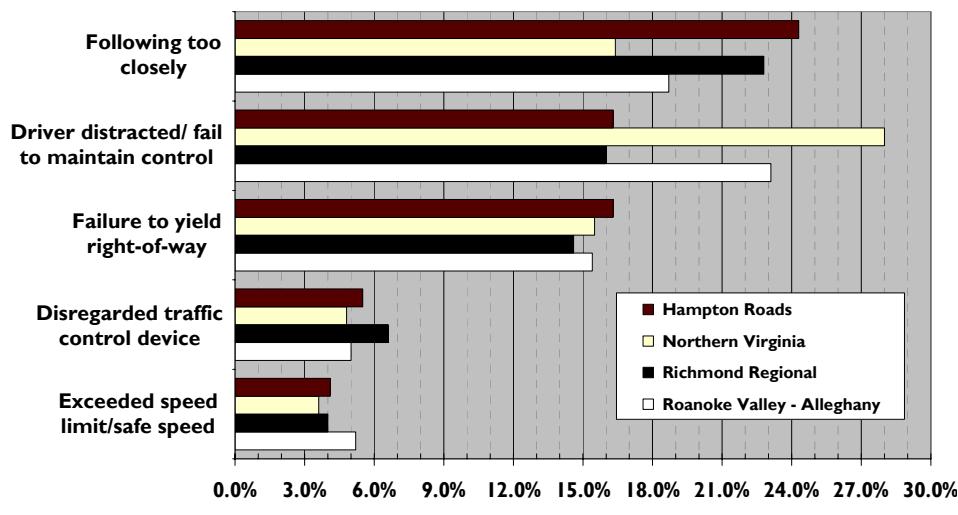
The most prevalent driver actions preceding traffic crashes in Hampton Roads between 2004 and 2006 were following too closely, driver distracted/failed to maintain control, and failure to yield right-of-way. 57% of all crashes were the result of one of these driver actions. Of those crashes due to driver distractions, 5.4% listed cell phones as the cause of the distraction.

## VIRGINIA

Statewide, the most prevalent driver actions preceding traffic crashes between 2004 and 2006 were driver distracted/failed to maintain control of vehicle (23%), following too closely (19%), and failure to yield right-of-way (15%).

## VIRGINIA CRASHES – DRIVER ACTION

## Driver Actions Preceding Traffic Crashes in Selected Virginia Planning Districts, 2004-2006



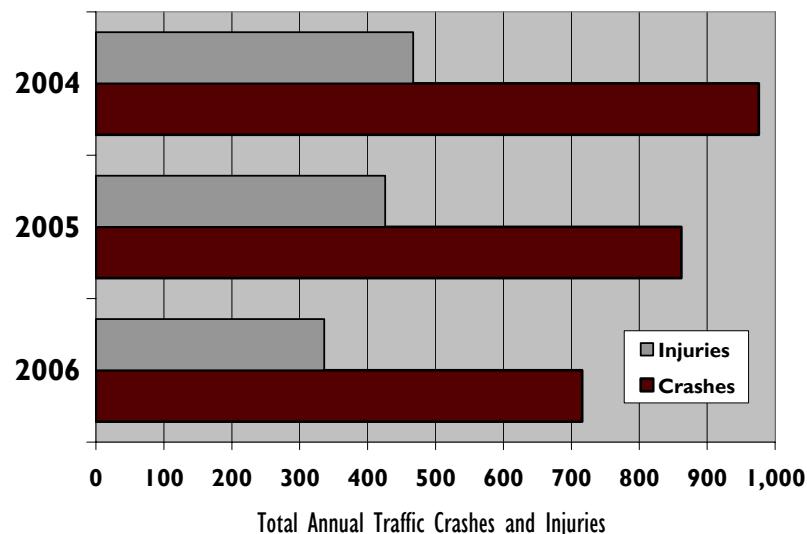
## VIRGINIA PDCs

Crashes due to drivers following too closely were more prevalent in Hampton Roads than in the Northern Virginia, Richmond Regional, and Roanoke Valley PDCs. Crashes due to drivers failing to yield the right-of-way were also slightly more prevalent in Hampton Roads than in the other three PDCs. The percentage of crashes due to drivers being distracted/failing to maintain control of their vehicle was much lower in Hampton Roads than in Northern Virginia and Roanoke.

Data source: VDOT.

## HAMPTON ROADS CRASHES – WORK ZONES

### Hampton Roads Crashes in Work Zones, 2004-2006



Data source: VDOT.

Note: Work zone data for each crash has only been maintained since 2004.

#### HAMPTON ROADS

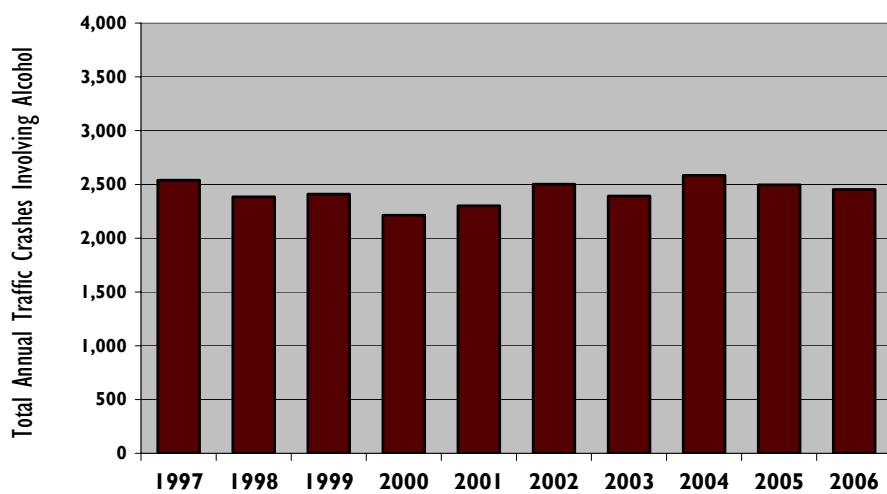
There were 716 crashes in work zones in Hampton Roads in 2006, resulting in 336 injuries and 1 fatality. 2.2% of all crashes and 2.1% of all injuries in Hampton Roads in 2006 occurred in work zones. The number of crashes and injuries that occurred in work zones decreased each year between 2004 and 2006.

#### VIRGINIA

Statewide, 2.2% of all crashes and 2.2% of all injuries occurred in work zones during this time period, similar to what occurred in Hampton Roads.

## HAMPTON ROADS ALCOHOL-RELATED CRASHES

### Hampton Roads Crashes that Involved Alcohol\*, 1997-2006



Data source: Virginia DMV.

\* The Virginia Department of Motor Vehicles defines a traffic crash as being alcohol-related (or involving alcohol) when the police report indicates that a driver, bicyclist, or pedestrian had been drinking before the crash, regardless of blood alcohol content.

#### HAMPTON ROADS

There were 2,454 alcohol-related traffic crashes in Hampton Roads in 2006. Alcohol was involved in 7.7% of all crashes in Hampton Roads in 2006, down from 8.5% in 1997. After increasing earlier in the decade, the number of alcohol-related crashes in Hampton Roads slightly decreased between 2004 and 2006.

#### VIRGINIA

Statewide, alcohol was involved in 7.7% of all traffic crashes in 2006, the same percentage that occurred in Hampton Roads. Also similar to Hampton Roads, the percentage of alcohol-related crashes decreased statewide between 1997 (when it was 8.7%) and 2006.

# TRAFFIC CRASH INJURIES

HAMPTON ROADS INJURIES

INJURIES BY JURISDICTION

HAMPTON ROADS INJURY RATES

VIRGINIA INJURY RATES

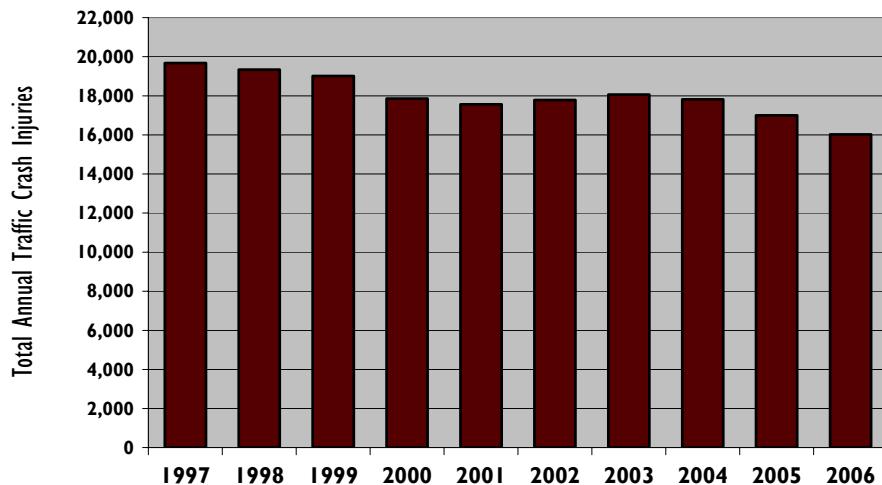
INJURY CRASH TYPES

ALCOHOL-RELATED INJURIES



## HAMPTON ROADS INJURIES

## Hampton Roads Annual Traffic Crash Injuries\*, 1997-2006



Data source: Virginia DMV.

\* An injury traffic crash is defined by the Virginia Department of Motor Vehicles as any crash that involves at least one injury, but results in no fatalities within 30 days of the crash.

## HAMPTON ROADS

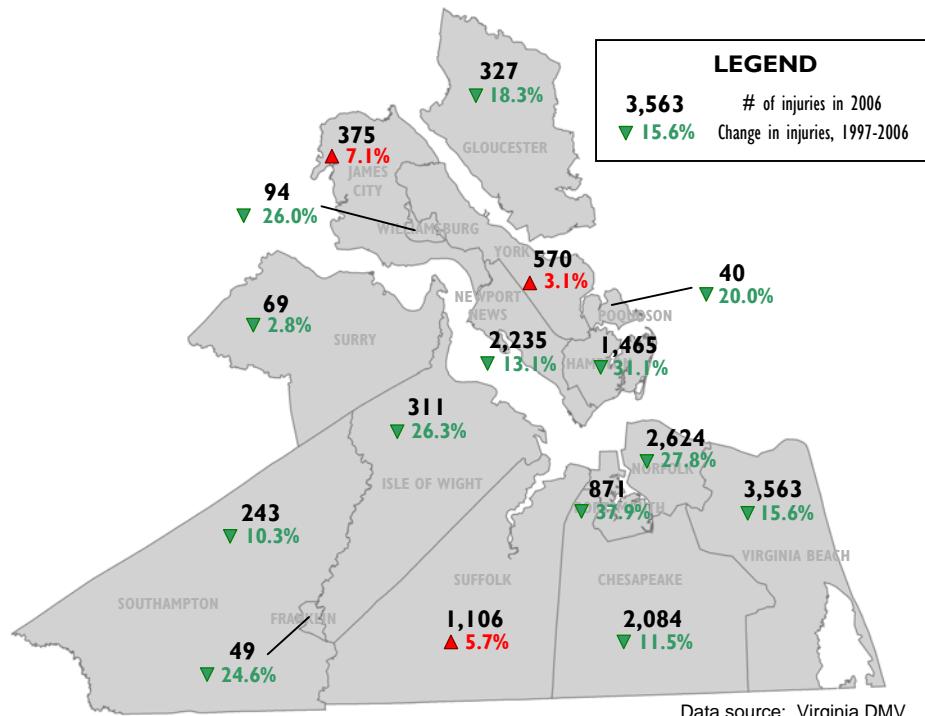
There were 16,026 injuries as a result of traffic crashes in Hampton Roads in 2006. This is an average of 44 injuries every day of the year, or one injury every 33 minutes. The number of injuries resulting from traffic crashes in Hampton Roads decreased 18.5% between 1997 and 2006, with a large portion of this decrease occurring over the last three years.

## VIRGINIA

The number of injuries resulting from traffic crashes statewide decreased 10.4% between 1997 and 2006, well below the rate of decrease experienced in Hampton Roads.

## TRAFFIC CRASH INJURIES BY JURISDICTION

## Traffic Crash Injuries and Trends by Jurisdiction, 1997-2006

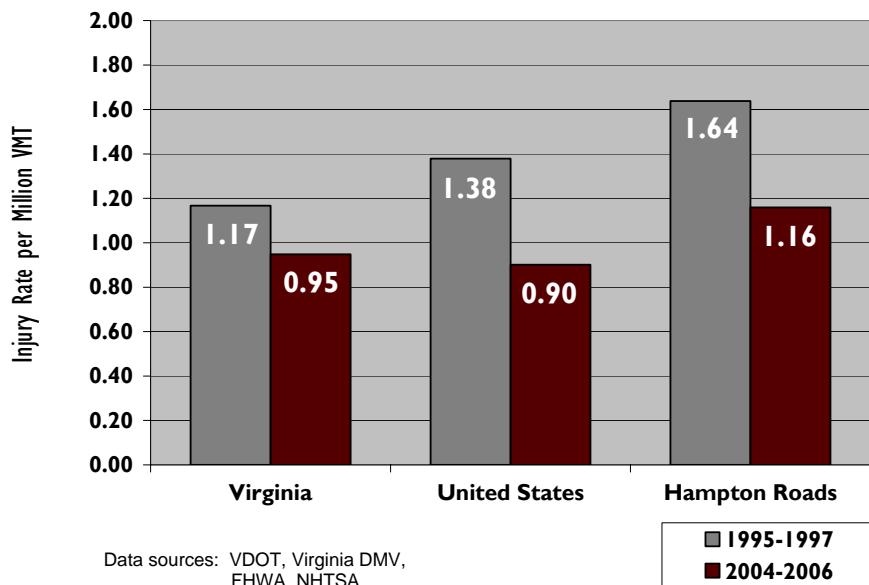


## HAMPTON ROADS

Of the 16 jurisdictions in the Hampton Roads PDC, 13 experienced a decrease in injuries resulting from traffic crashes between 1997 and 2006, and 7 jurisdictions saw a decrease in injuries of 20% or more. This is in spite of the fact that 10 jurisdictions experienced an increase in the number of crashes during this time period.

## HAMPTON ROADS INJURY RATES

## Traffic Crash Injury Rates in Hampton Roads, Virginia, and the United States, 1995-1997 and 2004-2006



## HAMPTON ROADS

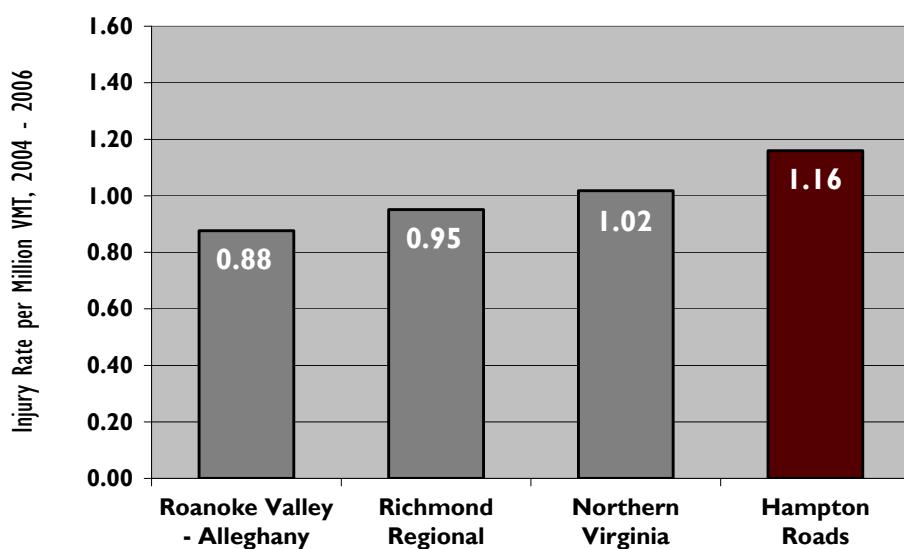
The crash injury rate in Hampton Roads was 1.16 injuries per million vehicle-miles of travel between 2004 and 2006. This is a decrease of nearly 30% from 1995-1997, when the injury rate in Hampton Roads was 1.64 injuries per million vehicle-miles of travel.

## VIRGINIA &amp; USA

Despite such a large decrease, the crash injury rate was still higher in Hampton Roads than in Virginia and the United States between 2004 and 2006.

## VIRGINIA INJURY RATES

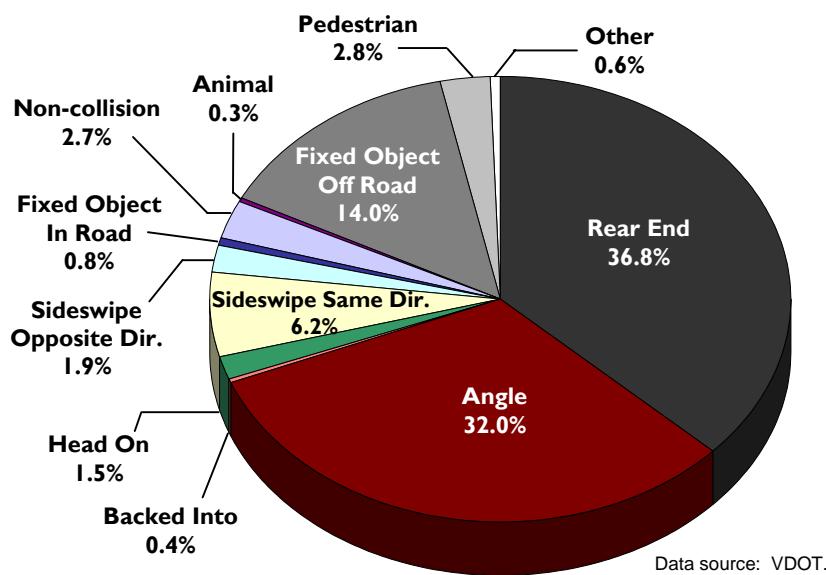
## Traffic Crash Injury Rates in Selected Virginia Planning Districts, 2004-2006



## VIRGINIA PDCs

Hampton Roads had a higher crash injury rate than the Northern Virginia, Richmond Regional, and Roanoke Valley-Alleghany planning districts between 2004 and 2006. The injury rate in Hampton Roads was more than 30% higher than the injury rate in the Roanoke Valley-Alleghany planning district and more than 20% higher than the injury rate in the Richmond Regional planning district during this time.

## HAMPTON ROADS INJURIES – CRASH TYPE

Hampton Roads Injuries by Crash Type  
2004-2006

## HAMPTON ROADS

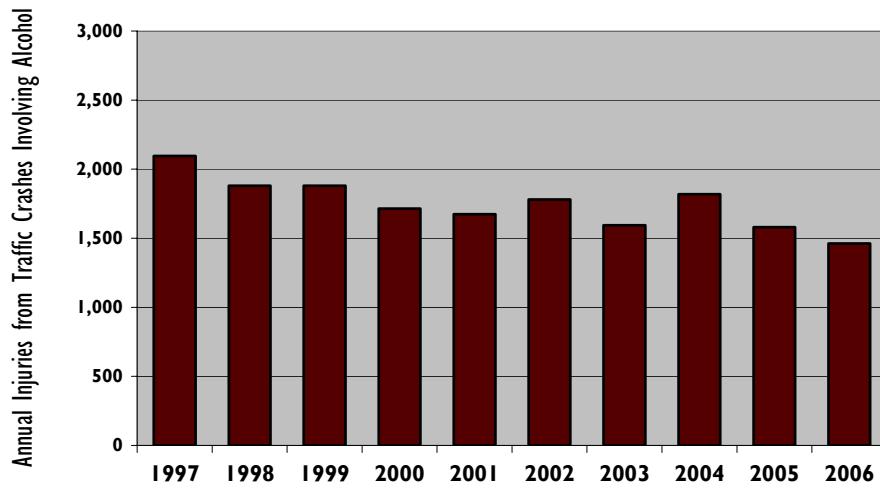
The primary crash types that resulted in injuries in Hampton Roads between 2004 and 2006 were rear end crashes (36.8%), angle crashes (32.0%), and fixed objects off the roadway surface crashes (14.0%). These were also the three most prevalent crash types in Hampton Roads during this time period.

## VIRGINIA

Similar to Hampton Roads, the primary crash types that resulted in injuries statewide between 2004 and 2006 were rear end crashes (31.8%), angle crashes (28.4%), and fixed objects off the roadway surface crashes (21.0%).

## HAMPTON ROADS ALCOHOL-RELATED INJURIES

## Injuries Resulting from Traffic Crashes Involving Alcohol in Hampton Roads, 1997-2006



## HAMPTON ROADS

There were 1,462 injuries that resulted from alcohol-related traffic crashes in Hampton Roads in 2006. This is down over 30% from 1997 when there were over 2,000 such injuries. 9.1% of all traffic crash injuries that occurred in Hampton Roads in 2006 resulted from crashes involving alcohol, down from 10.7% in 1997.

## VIRGINIA

The number of injuries statewide that resulted from alcohol-related crashes decreased 17% between 1997 and 2006, well below the decrease that occurred in Hampton Roads. 10.3% of all injuries statewide in 2006 resulted from alcohol-related crashes.

# TRAFFIC CRASH FATALITIES

HAMPTON ROADS FATALITIES

FATALITIES BY JURISDICTION

HAMPTON ROADS FATALITY RATES

VIRGINIA FATALITY RATES

FATALITY CRASH TYPES

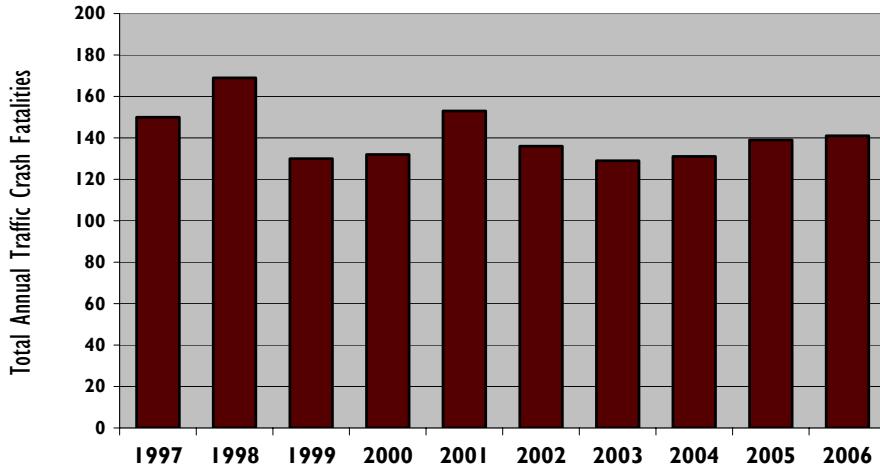
ALCOHOL-RELATED FATALITIES



## HAMPTON ROADS FATALITIES

## Hampton Roads Annual Traffic Crash Fatalities\*, 1997-2006

## HAMPTON ROADS



Data source: Virginia DMV.

\* A fatality traffic crash is defined by the Virginia Department of Motor Vehicles as any crash that caused the death of at least one driver, passenger, or pedestrian within 30 days of the crash as the result of injuries suffered in the crash.

There were 141 fatalities that resulted from traffic crashes in Hampton Roads in 2006. A fatality resulting from traffic crashes occurred on average once every 2.6 days in the region. Although the number of fatalities was lower in 2006 than in 1997, the number of fatalities increased every year between 2003 and 2006.

## VIRGINIA

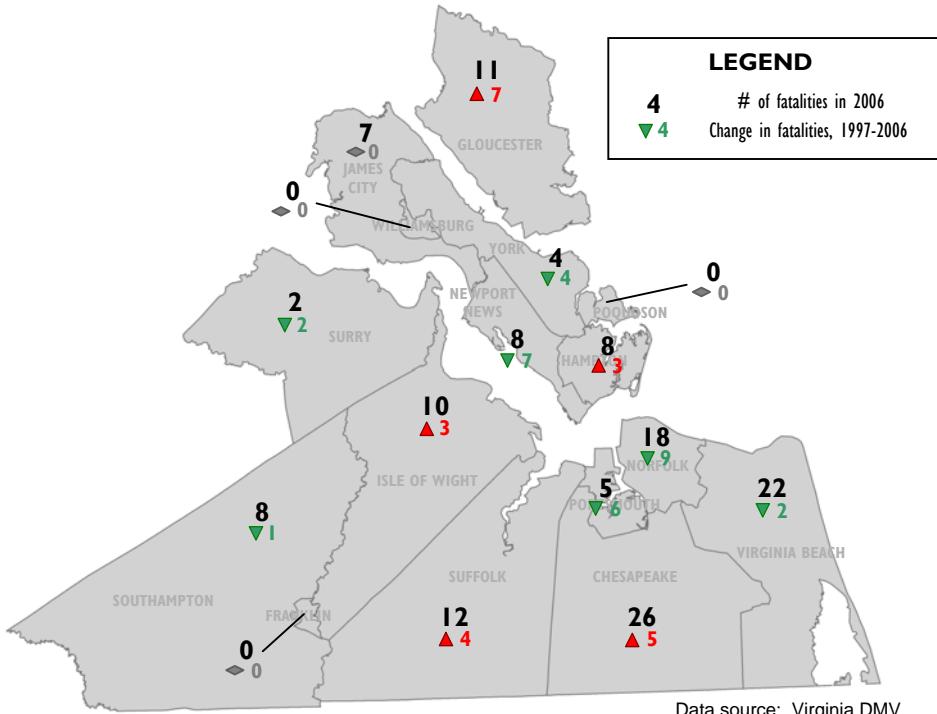
There were 961 fatalities resulting from traffic crashes statewide in 2006. This is the highest number of fatalities since 1997, when 981 fatalities occurred statewide. VDOT aims to reduce this number by 100 fatalities per year by the year 2010.

## TRAFFIC CRASH FATALITIES BY JURISDICTION

## Traffic Crash Fatalities and Trends by Jurisdiction, 1997-2006

## HAMPTON ROADS

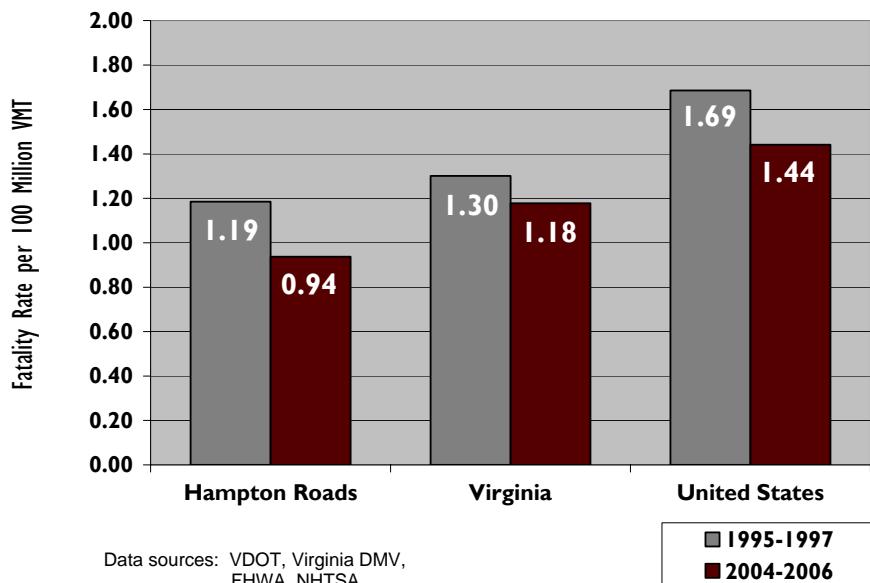
Of the 16 jurisdictions in the Hampton Roads PDC, 5 experienced an increase in fatalities between 1997 and 2006, and 7 experienced a decrease. Three jurisdictions had no fatalities in either year. Gloucester experienced the largest increase with 7 more fatalities in 2006 than in 1997, while Norfolk had the largest decrease with 9 fewer fatalities during this period.



Data source: Virginia DMV.

## HAMPTON ROADS FATALITY RATES

## Traffic Crash Fatality Rates in Hampton Roads, Virginia, and the United States, 1995-1997 and 2004-2006



## HAMPTON ROADS

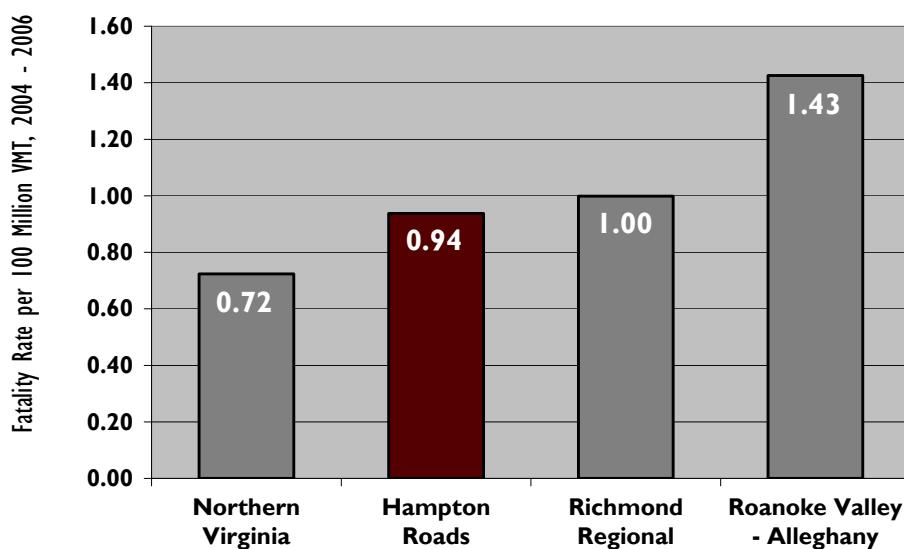
The traffic crash fatality rate in Hampton Roads was 0.94 fatalities per 100 million vehicle-miles of travel between 2004 and 2006. This is a 21% decrease from 1995-1997, when the fatality rate in Hampton Roads was 1.19 fatalities per 100 million vehicle-miles of travel.

## VIRGINIA &amp; USA

The crash fatality rate is much lower in Hampton Roads than in Virginia and the United States. The decrease in the crash fatality rate was also larger in Hampton Roads than in Virginia (-9%) and the United States (-15%).

## VIRGINIA FATALITY RATES

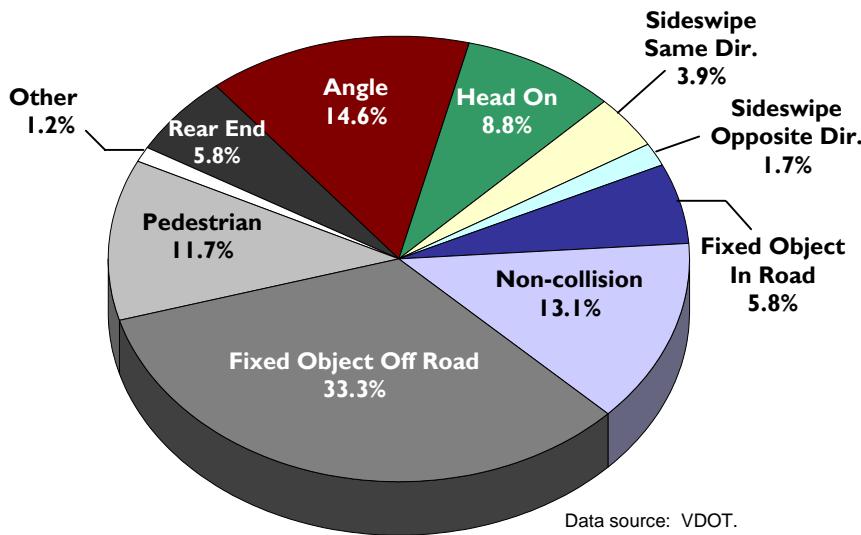
## Traffic Crash Fatality Rates in Selected Virginia Planning Districts, 2004-2006



## VIRGINIA PDCs

Hampton Roads had a higher crash fatality rate than the Northern Virginia planning district between 2004 and 2006, but a lower fatality rate than the Richmond Regional and Roanoke Valley-Alleghany planning districts. Only the Roanoke Valley-Alleghany planning district had a fatality rate higher than the statewide rate.

## HAMPTON ROADS FATALITES – CRASH TYPE

Hampton Roads Fatalities by Crash Type  
2004-2006

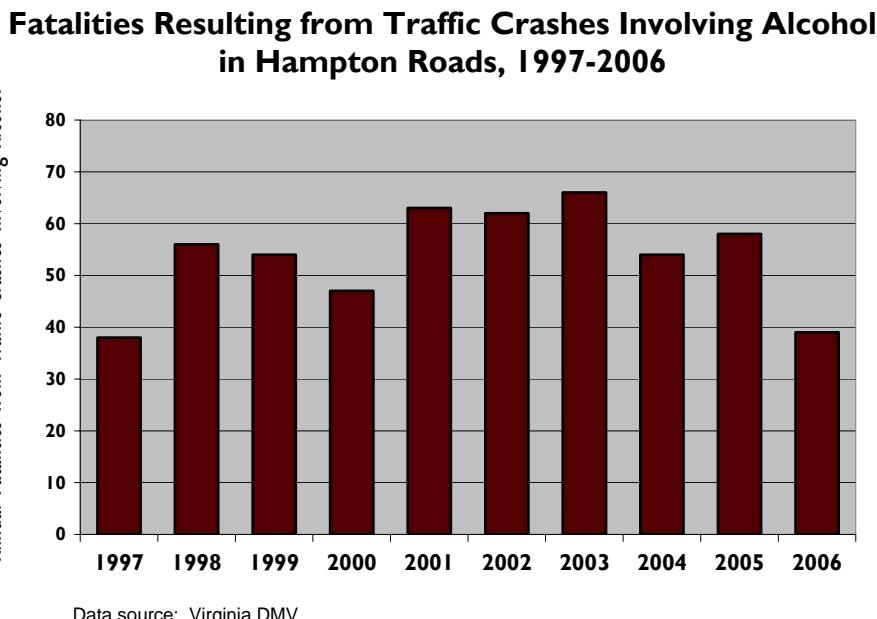
## HAMPTON ROADS

Fixed object off the roadway surface crashes caused a third of all fatalities in Hampton Roads between 2004 and 2006. This is in spite of the fact that they only comprised 16% of all traffic crashes during this time. Fatalities are also prevalent in pedestrian crashes, comprising only 1% of all crashes but 12% of all fatalities between 2004 and 2006.

## VIRGINIA

Fixed object off the roadway surface crashes also caused the most fatalities statewide between 2004 and 2006 (38.5%), followed by non-collision/overturned vehicle crashes (15.9%) and angle crashes (12.8%).

## HAMPTON ROADS ALCOHOL-RELATED FATALITIES



## HAMPTON ROADS

There were 39 fatalities that resulted from crashes that involved alcohol in Hampton Roads in 2006. This number is much lower than earlier in the decade, when the number of such fatalities fluctuated between 54 and 66 each year. 28% of all fatalities in Hampton Roads in 2006 resulted from crashes that involved alcohol.

## VIRGINIA

Statewide, there were 52 more fatalities that resulted from crashes that involved alcohol in 2006 than in 2005. 39% of all fatalities statewide in 2006 resulted from crashes that involved alcohol.

## APPENDIX

HAMPTON ROADS CRASH DATA, 1997 - 2006

NATIONWIDE FATALITY DATA, 2004 - 2006



## HAMPTON ROADS CRASH DATA, 1997 - 2006

### Hampton Roads Crashes by Jurisdiction, 1997 - 2006

Jurisdiction	Number of Crashes										% change 1997-2006
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Chesapeake	3,281	3,251	3,373	3,193	3,104	3,141	3,274	3,594	3,652	3,442	4.9%
Franklin	136	120	117	107	110	74	75	47	98	97	-28.7%
Gloucester	469	529	533	490	466	494	505	475	419	440	-6.2%
Hampton	3,271	2,950	3,059	3,050	3,158	3,663	4,115	3,862	3,875	3,488	6.6%
Isle of Wight	480	526	488	517	516	568	567	592	586	595	24.0%
James City	582	552	518	499	513	558	656	650	703	759	30.4%
Newport News	3,887	3,964	3,998	3,867	3,750	3,861	3,900	4,211	4,160	4,258	9.5%
Norfolk	5,892	5,855	5,779	5,542	5,359	5,705	5,810	5,703	5,749	5,400	-8.4%
Poquoson	95	87	76	80	93	91	81	86	83	94	-1.1%
Portsmouth	1,796	1,624	1,778	1,729	1,691	1,928	2,061	2,036	1,718	1,753	-2.4%
Southampton	303	327	333	320	314	277	376	410	296	321	5.9%
Suffolk	1,214	1,283	1,324	1,204	1,337	1,379	1,566	1,678	1,618	1,742	43.5%
Surry	100	138	117	113	111	107	115	117	141	139	39.0%
Virginia Beach	7,195	7,591	7,837	7,679	7,788	8,478	8,653	8,324	8,292	8,268	14.9%
Williamsburg	222	220	238	185	215	222	204	186	186	171	-23.0%
York	866	907	894	857	868	896	1,089	1,137	1,053	1,052	21.5%
<b>Hampton Roads PDC</b>	<b>29,789</b>	<b>29,924</b>	<b>30,462</b>	<b>29,432</b>	<b>29,393</b>	<b>31,442</b>	<b>33,047</b>	<b>33,108</b>	<b>32,629</b>	<b>32,019</b>	<b>7.5%</b>
<b>Virginia</b>	<b>129,980</b>	<b>136,138</b>	<b>139,573</b>	<b>141,650</b>	<b>144,585</b>	<b>147,737</b>	<b>154,848</b>	<b>153,907</b>	<b>153,849</b>	<b>151,692</b>	<b>16.7%</b>
HR % of state	22.9%	22.0%	21.8%	20.8%	20.3%	21.3%	21.3%	21.5%	21.2%	21.1%	
<b>United States</b>	<b>6,624,000</b>	<b>6,335,000</b>	<b>6,279,000</b>	<b>6,394,000</b>	<b>6,323,000</b>	<b>6,316,000</b>	<b>6,328,000</b>	<b>6,181,000</b>	<b>6,159,000</b>	<b>5,930,000</b>	<b>-10.5%</b>

Sources: National Highway Traffic Safety Administration (NHTSA), Virginia Traffic Crash Facts

### Hampton Roads Fatalities by Jurisdiction, 1997 - 2006

Jurisdiction	Number of Fatalities										% change 1997-2006
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Chesapeake	21	26	10	12	20	19	17	13	21	26	23.8%
Franklin	0	0	0	2	1	0	0	0	0	0	
Gloucester	4	5	2	3	9	5	4	3	7	11	175.0%
Hampton	5	4	13	5	6	10	9	14	3	8	60.0%
Isle of Wight	7	12	9	6	7	5	7	7	6	10	42.9%
James City	7	6	4	7	4	6	5	6	8	7	0.0%
Newport News	15	16	11	11	10	11	13	12	13	8	-46.7%
Norfolk	27	20	24	22	25	10	15	13	15	18	-33.3%
Poquoson	0	0	0	0	0	0	0	0	0	0	
Portsmouth	11	12	7	4	5	9	7	11	1	5	-54.5%
Southampton	9	7	8	8	7	3	4	8	10	8	-11.1%
Suffolk	8	24	13	13	17	20	8	16	8	12	50.0%
Surry	4	4	1	6	1	1	2	1	4	2	-50.0%
Virginia Beach	24	20	24	24	31	27	27	22	31	22	-8.3%
Williamsburg	0	2	1	0	0	1	0	0	0	0	
York	8	11	3	9	10	9	11	5	12	4	-50.0%
<b>Hampton Roads PDC</b>	<b>150</b>	<b>169</b>	<b>130</b>	<b>132</b>	<b>153</b>	<b>136</b>	<b>129</b>	<b>131</b>	<b>139</b>	<b>141</b>	<b>-6.0%</b>
<b>Virginia</b>	<b>981</b>	<b>934</b>	<b>877</b>	<b>930</b>	<b>935</b>	<b>913</b>	<b>942</b>	<b>922</b>	<b>946</b>	<b>961</b>	<b>-2.0%</b>
HR % of state	15.3%	18.1%	14.8%	14.2%	16.4%	14.9%	13.7%	14.2%	14.7%	14.7%	
<b>United States</b>	<b>42,013</b>	<b>41,501</b>	<b>41,717</b>	<b>41,945</b>	<b>42,196</b>	<b>43,005</b>	<b>42,884</b>	<b>42,836</b>	<b>43,510</b>	<b>42,642</b>	<b>1.5%</b>

Sources: NHTSA, Virginia Traffic Crash Facts

## HAMPTON ROADS CRASH DATA, 1997 - 2006

### Hampton Roads Injuries by Jurisdiction, 1997 - 2006

Jurisdiction	Number of Injuries										% change 1997-2006
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Chesapeake	2,356	2,281	2,397	2,198	2,162	2,095	2,106	2,279	2,167	2,084	-11.5%
Franklin	65	85	74	59	51	31	37	14	64	49	-24.6%
Gloucester	400	447	430	396	347	407	365	360	317	327	-18.3%
Hampton	2,127	1,922	1,926	1,833	1,914	1,963	1,961	1,677	1,785	1,465	-31.1%
Isle of Wight	422	372	421	382	381	370	354	341	395	311	-26.3%
James City	350	337	313	324	366	383	385	384	403	375	7.1%
Newport News	2,573	2,584	2,492	2,241	2,212	2,287	2,279	2,532	2,418	2,235	-13.1%
Norfolk	3,633	3,400	3,137	3,008	2,906	3,062	3,053	2,951	2,664	2,624	-27.8%
Poquoson	50	34	41	25	58	54	35	30	35	40	-20.0%
Portsmouth	1,403	1,301	1,338	1,269	1,111	1,209	1,274	1,265	942	871	-37.9%
Southampton	271	255	266	284	260	219	262	263	239	243	-10.3%
Suffolk	1,046	1,109	995	880	1,006	941	1,033	1,066	1,010	1,106	5.7%
Surry	71	94	84	68	69	60	59	66	84	69	-2.8%
Virginia Beach	4,220	4,360	4,431	4,241	4,057	4,009	4,066	3,771	3,705	3,563	-15.6%
Williamsburg	127	95	121	103	108	103	119	99	99	94	-26.0%
York	553	658	545	549	555	592	677	717	672	570	3.1%
<b>Hampton Roads PDC</b>	<b>19,667</b>	<b>19,334</b>	<b>19,011</b>	<b>17,860</b>	<b>17,563</b>	<b>17,785</b>	<b>18,065</b>	<b>17,815</b>	<b>16,999</b>	<b>16,026</b>	<b>-18.5%</b>
<b>Virginia</b>	<b>81,866</b>	<b>81,221</b>	<b>81,204</b>	<b>79,806</b>	<b>80,187</b>	<b>78,896</b>	<b>78,842</b>	<b>78,487</b>	<b>76,023</b>	<b>73,348</b>	<b>-10.4%</b>
HR % of state	24.0%	23.8%	23.4%	22.4%	21.9%	22.5%	22.9%	22.7%	22.4%	21.8%	
<b>United States</b>	<b>3,348,000</b>	<b>3,192,000</b>	<b>3,236,000</b>	<b>3,189,000</b>	<b>3,033,000</b>	<b>2,926,000</b>	<b>2,889,000</b>	<b>2,788,000</b>	<b>2,699,000</b>	<b>2,575,000</b>	<b>-23.1%</b>

Sources: NHTSA, Virginia Traffic Crash Facts

### Hampton Roads Alcohol-Related Crashes by Jurisdiction, 1997 - 2006

Jurisdiction	Number of Alcohol Related Crashes										% change 1997-2006
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Chesapeake	256	230	244	234	246	273	259	234	258	253	-1.2%
Franklin	8	8	5	8	7	3	7	2	6	10	25.0%
Gloucester	46	46	51	45	51	56	52	57	44	43	-6.5%
Hampton	271	254	212	204	230	232	255	269	261	249	-8.1%
Isle of Wight	62	51	73	60	69	76	64	60	62	60	-3.2%
James City	46	40	36	41	43	42	41	41	61	45	-2.2%
Newport News	297	311	266	253	257	278	227	282	271	267	-10.1%
Norfolk	515	456	435	394	399	463	454	414	418	383	-25.6%
Poquoson	11	9	4	5	9	4	8	8	8	4	-63.6%
Portsmouth	156	136	155	134	111	158	148	181	144	155	-0.6%
Southampton	37	47	47	43	33	32	41	35	34	28	-24.3%
Suffolk	115	119	124	114	117	107	81	125	114	129	12.2%
Surry	16	13	16	16	14	13	18	11	22	10	-37.5%
Virginia Beach	622	579	659	583	624	689	667	780	700	738	18.6%
Williamsburg	11	9	11	9	14	12	14	14	9	11	0.0%
York	71	78	72	71	78	64	56	71	84	69	-2.8%
<b>Hampton Roads PDC</b>	<b>2,540</b>	<b>2,386</b>	<b>2,410</b>	<b>2,214</b>	<b>2,302</b>	<b>2,502</b>	<b>2,392</b>	<b>2,584</b>	<b>2,496</b>	<b>2,454</b>	<b>-3.4%</b>
<b>Virginia</b>	<b>11,340</b>	<b>11,027</b>	<b>10,942</b>	<b>11,085</b>	<b>11,265</b>	<b>11,788</b>	<b>11,388</b>	<b>11,504</b>	<b>11,495</b>	<b>11,736</b>	<b>3.5%</b>
HR % of state	22.4%	21.6%	22.0%	20.0%	20.4%	21.2%	21.0%	22.5%	21.7%	20.9%	
<b>United States</b>	<b>470,000</b>	<b>438,000</b>	<b>457,000</b>	<b>508,000</b>	<b>438,000</b>						

Sources: NHTSA, Virginia Traffic Crash Facts

## HAMPTON ROADS CRASH DATA, 1997 - 2006

### Hampton Roads Alcohol-Related Fatalities by Jurisdiction, 1997 - 2006

Jurisdiction	Number of Alcohol Related Fatalities										% change 1997-2006
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Chesapeake	1	8	3	5	10	7	6	3	9	3	200.0%
Franklin	0	0	0	2	0	0	0	0	0	0	
Gloucester	2	3	1	1	4	3	2	2	2	4	100.0%
Hampton	0	4	5	2	4	8	5	10	1	3	INF
Isle of Wight/Smt	3	3	3	1	3	1	6	3	1	5	66.7%
James City	0	0	4	2	1	2	1	2	2	1	INF
Newport News	5	4	5	2	2	5	9	3	7	0	-100.0%
Norfolk	4	5	9	7	8	5	6	5	7	0	-100.0%
Poquoson	0	0	0	0	0	0	0	0	0	0	
Portsmouth	5	6	1	2	3	6	6	3	0	1	-80.0%
Southampton	1	3	4	4	3	1	2	4	5	2	100.0%
Suffolk	4	9	2	2	6	8	1	5	6	3	-25.0%
Surry	1	1	1	3	0	0	0	0	2	0	-100.0%
Virginia Beach	9	6	14	11	16	13	17	11	10	15	66.7%
Williamsburg	0	1	0	0	0	0	0	0	0	0	
York	3	3	2	3	3	3	5	3	6	2	-33.3%
<b>Hampton Roads PDC</b>	<b>38</b>	<b>56</b>	<b>54</b>	<b>47</b>	<b>63</b>	<b>62</b>	<b>66</b>	<b>54</b>	<b>58</b>	<b>39</b>	<b>2.6%</b>
<b>Virginia</b>	<b>302</b>	<b>336</b>	<b>364</b>	<b>355</b>	<b>358</b>	<b>375</b>	<b>361</b>	<b>343</b>	<b>322</b>	<b>374</b>	<b>23.8%</b>
HR % of state	12.6%	16.7%	14.8%	13.2%	17.6%	16.5%	18.3%	15.7%	18.0%	10.4%	
<b>United States</b>	<b>16,711</b>	<b>16,673</b>	<b>16,572</b>	<b>17,380</b>	<b>17,448</b>	<b>17,524</b>	<b>17,105</b>	<b>16,694</b>	<b>17,590</b>	<b>17,602</b>	<b>5.3%</b>

Sources: NHTSA, Virginia Traffic Crash Facts

### Hampton Roads Alcohol-Related Injuries by Jurisdiction, 1997 - 2006

Jurisdiction	Number of Alcohol Related Injuries										% change 1997-2006
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
Chesapeake	235	196	208	210	204	232	188	207	192	139	-40.9%
Franklin	8	6	8	5	3	3	3	2	3	1	-87.5%
Gloucester	33	50	36	45	46	56	53	59	37	37	12.1%
Hampton	218	192	163	157	168	128	172	119	158	121	-44.5%
Isle of Wight	75	31	83	59	64	65	52	42	53	43	-42.7%
James City	28	25	25	48	34	52	33	29	24	25	-10.7%
Newport News	230	241	218	177	188	213	153	223	173	187	-18.7%
Norfolk	403	360	318	270	267	305	272	311	231	221	-45.2%
Poquoson	7	6	2	2	6	4	4	4	4	3	-57.1%
Portsmouth	129	114	140	125	77	99	109	122	82	91	-29.5%
Southampton	43	33	45	38	25	32	24	30	40	34	-20.9%
Suffolk	126	122	111	112	99	113	74	117	97	107	-15.1%
Surry	18	13	15	7	11	5	10	8	17	6	-66.7%
Virginia Beach	489	417	447	399	414	422	395	472	396	393	-19.6%
Williamsburg	5	3	4	3	8	6	10	14	2	8	60.0%
York	48	71	57	57	60	45	42	59	71	46	-4.2%
<b>Hampton Roads PDC</b>	<b>2,095</b>	<b>1,880</b>	<b>1,880</b>	<b>1,714</b>	<b>1,674</b>	<b>1,780</b>	<b>1,594</b>	<b>1,818</b>	<b>1,580</b>	<b>1,462</b>	<b>-30.2%</b>
<b>Virginia</b>	<b>9,124</b>	<b>8,555</b>	<b>8,359</b>	<b>8,251</b>	<b>8,211</b>	<b>8,465</b>	<b>7,819</b>	<b>7,911</b>	<b>7,512</b>	<b>7,543</b>	<b>-17.3%</b>
HR % of state	23.0%	22.0%	22.5%	20.8%	20.4%	21.0%	20.4%	23.0%	21.0%	19.4%	
<b>United States</b>	<b>327,000</b>	<b>305,000</b>	<b>308,000</b>	<b>310,000</b>	<b>275,000</b>	<b>258,000</b>	<b>275,000</b>	<b>248,000</b>	<b>254,000</b>		

Sources: NHTSA, Virginia Traffic Crash Facts