

# Office of the Chief Medical Examiner's Annual Report, 2011



Commonwealth of Virginia
Virginia Department of Health
Office of the Chief Medical Examiner
December 2011

# OFFICE OF THE CHIEF MEDICAL EXAMINER'S ANNUAL REPORT, 2011

Leah L. E. Bush, MD
Chief Medical Examiner

#### **Central District**

400 East Jackson Street Richmond, VA 23219 (804) 786-3174

OCME\_CENT@vdh.virginia.gov

#### **Assistant Chief Medical Examiners**

William T. Gormley, MD, PhD
Deborah Kay, MD
Kevin D. Whaley, MD

#### **Northern District**

10850 Pyramid Place, Suite 121 Manassas, VA 20110 (703) 530-2600

OCME\_NOVA@vdh.virginia.gov

#### **Assistant Chief Medical Examiners**

Constance R. DiAngelo, MD Shane Chittenden, DO A. Wayne Williams, MD Frances Field, MD

http://www.vdh.state.va.us/medexam/index.asp

#### **Tidewater District**

830 Southampton Ave., Suite 100 Norfolk, VA 23510 (757) 683-8366

OCME\_TIDE@vdh.virginia.gov

#### **Assistant Chief Medical Examiners**

Elizabeth L. Kinnison, MD Wendy M. Gunther, MD Jeffery Gofton, MD

#### **Western District**

6600 Northside High School Road Roanoke, VA 24019 (540) 561-6615

OCME WEST@vdh.virginia.gov

#### **Assistant Chief Medical Examiners**

Amy Tharp, MD
Paul Benson, MD
Gayle Suzuki, MD
Micheline Lubin, MD

# Office of the Chief Medical Examiner's Annual Report, 2011

# **Department of Health**

### **Commonwealth of Virginia**

# **Table of Contents**

Table of Contents	1
Letter from the Chief Medical Examiner	8
Introduction	10
Data Collection and Preparation	10
Statistical Summary	10
SECTION 1: OVERVIEW – OFFICE OF THE CHIEF MEDICAL EXAMINER	11
Jurisdictional Authority	11
Medicolegal Mission	12
Public Health Mission	12
Virginia 2011	12
Fatality Review and Surveillance Programs	13
The Family and Intimate Partner Violence Homicide Surveillance Project (FIPV)	13
The Virginia Violent Death Reporting System (VVDRS)	14
The State Child Fatality Review Team	15
Domestic Violence Fatality Review	16
Virginia's Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mort Team (MMRT)	
Training and Education	18
Forensic Pathology Training Programs	18
National Association of Medical Examiners Accreditation	20
SECTION 2: TOTAL CASES (N=5670)	21
Figure 1. Total Cases by Year of Death, 1999-2011	21
Figure 2. Total Cases by Year of Death by Manner, 1999-2011	22
Figure 3. Total Cases by Manner, 2011	22

Table 1. Total Cases by OCME District by Manner, 2011	23
Table 2. Total Cases by Autopsy Status by OCME District, 2011	23
Table 3. Total Cases by Manner by Autopsy Status, 2011	
Table 4. Total Cases by Race/Ethnicity, 2011	23
Figure 4. Total Cases by Manner by Race/Ethnicity, 2011	24
Figure 5. Total Cases by Age Group, 2011	25
Table 5. Total Cases by Gender, 2011	25
Table 6. Total Cases by Manner by Gender, 2011	26
Figure 6. Total Cases by Manner by Gender, 2011	26
Table 7. Total Cases by Manner by Gender by Age Group, 2011	27
Figure 7. Total Cases by Month of Death, 2011	28
Figure 8. Total Cases by Month of Death by Manner, 2011	28
Figure 9. Total Cases by Day of Death, 2011	29
Figure 10. Total Cases by Day of Death by Manner, 2011	29
Table 8. Total Cases by Manner by City/County of Residence, 2011	30
Figure 11. Total Cases by City/County of Residence, 2011	36
Figure 12. Rate of Total Cases by City/County of Residence, 2011	37
Table 9. Total Cases by Manner by City/County of Injury/Acute Illness, 2011	38
Figure 13. Total Cases by City/County of Injury/Acute Illness, 2011	42
Table 10. Total Cases by Manner by City/County of Death, 2011	43
Figure 14. Total Cases by City/County of Death, 2011	47
Table 11. Total Cases by Cause of Death, 2011	48
SECTION 3: MANNER OF DEATH	51
NATURAL DEATH (N=1756)	51
Figure 15. Natural Deaths & Rate by Year of Death, 2011	51
Figure 16. Natural Deaths by Age Group by Gender, 2011	52
ACCIDENTAL DEATHS (N=2341)	53
Figure 17. Accidental Deaths & Rate by Year of Death, 1999-2011	53
Figure 18. Accidental Deaths by Age Group by Gender, 2011	54
Figure 19. Accidental Deaths by Race/Ethnicity, 2011	54
Table 12. Accidental Deaths by Method of Death, 2011	55
Table 13. Top 5 Accidental Methods of Death by Age Group with Corresponding Rates, 2011	56
Figure 20. Accidental Deaths by Age Group by Ethanol Level, 2011	57
Figure 21. Accidental Deaths by Gender by Ethanol Level, 2011	57
Figure 22. Top 5 Accidental Methods of Death by Alcohol Presence, 2011	58

Figure 23. Accidental Deaths by Month of Death, 2011	59
Figure 24. Accidental Deaths by Day of Death, 2011	59
Table 14. Accidental Deaths by City/County of Injury/Acute Illness, 2006-2011	60
SUICIDE DEATHS (N=1067)	
Figure 25. Suicide Deaths & Rate by Year of Death, 2011	64
Figure 26. Suicide Deaths & Rates by Age Group by Gender, 2011	65
Figure 27. Suicide Deaths by Race/Ethnicity, 2011	65
Figure 28. Suicide Deaths by Race/Ethnicity by Gender, 2011	66
Table 15. Suicide Deaths by Method of Death, 2011	67
Figure 29. Suicide Deaths by Age Group by Ethanol Level, 2011	68
Figure 30. Suicide Deaths by Gender by Ethanol Level, 2011	
Table 16. Suicide Deaths by Method of Death by Ethanol Level, 2011	
Figure 31. Suicide Deaths by Month of Death, 2011	
Figure 32. Suicide Deaths by Day of Death, 2011	
Table 17. Suicide Deaths & Rates by City/County of Residence, 2011	
Figure 33. Suicide Deaths by City/County of Residence, 2011	73
Figure 34. Suicide Rates by City/County of Residence, 2011	73
Table 18. Suicide Deaths by City/County of Injury by Year of Death, 2006-2011	74
HOMICIDE DEATHS (N=345)	78
Figure 35. Homicide Deaths & Rate by Year of Death, 1999-2011	78
Figure 36. Homicide Deaths by Age Group by Gender, 2011	79
Figure 37. Homicide Deaths by Race/Ethnicity, 2011	79
Figure 38. Homicide Deaths by Race/Ethnicity by Gender, 2011	80
Table 19. Homicide Deaths by Method of Death, 2011	81
Figure 39. Homicide Deaths by Leading Methods of Death, 2011	82
Figure 40. Homicide Deaths by Age Group by Ethanol Level, 2011	83
Figure 41. Homicide Deaths by Gender by Ethanol Level, 2011	83
Table 20. Homicide Deaths by Method of Death by Ethanol Level, 2011	84
Figure 42. Homicide Deaths by Month of Death, 2011	85
Figure 43. Homicide Deaths by Day of Death, 2011	85
Table 21. Homicide Deaths by City/County of Residence, 2011	86
Table 22. Top 10 Homicide Deaths by City/County of Residence, 2011	88
Table 23. Top 10 Homicide Rates by City/County of Residence, 2011	
Figure 44. Homicide Deaths by City/County of Residence, 2011	89
Figure 45. Homicide Rates by City/County of Residence, 2011	90

Figure 46. Homicide Deaths by City/County of Injury, 2006-2011	91
Table 24. Top 10 Homicide Deaths by City/County of Injury, 2011	94
Figure 47. Homicide Cases by City/County of Injury, 2011	95
UNDETERMINED DEATHS (N=161)	96
Figure 48. Undetermined Deaths by Year of Death, 1999-2011	96
Figure 49. Undetermined Deaths by Age Group by Gender, 2011	97
Figure 50. Undetermined Deaths by Race/Ethnicity, 2011	
Table 25. Undetermined Deaths by Cause of Death, 2011	98
SECTION 4: DEATHS OF CHILDREN (17 Years of Age & Younger) (N=348)	
Figure 51. Child Deaths by Manner, 2011	99
Figure 52. Child Deaths by Age by Gender, 2011	100
Figure 53. Child Deaths by Race/Ethnicity, 2011	100
Figure 54. Child Deaths by Manner by Race/Ethnicity, 2011	101
Table 26. Child Deaths by Cause of Death, 2011	102
NATURAL DEATHS OF CHILDREN (N=63)	104
Figure 55. Natural Child Deaths by Age Group by Gender, 2011	104
Figure 56. Natural Child Deaths by Race/Ethnicity, 2011	105
Figure 57. SIDS Cases by Year of Death, 2003-2011	105
ACCIDENTAL DEATHS OF CHILDREN (N=134)	106
Figure 58. Accidental Child Deaths by Age Group by Gender, 2011	106
Figure 59. Accidental Child Deaths by Race/Ethnicity, 2011	106
Figure 60. Accidental Child Deaths by Month of Death, 2011	107
Figure 61. Accidental Child Deaths by Day of Death, 2011	107
Table 27. Accidental Child Deaths by Method of Death, 2011	108
SUICIDE DEATHS OF CHILDREN (N=30)	109
Figure 62. Child Suicide Deaths by Year of Death, 1999-2011	109
Figure 63. Child Suicide Deaths by Age by Gender, 2011	110
Figure 64. Child Suicide Deaths by Race/Ethnicity, 2011	110
Figure 65. Child Suicide Deaths by Month of Death, 2011	111
Figure 66. Child Suicide Deaths by Day of Death, 2011	111
Table 28. Child Suicide Deaths by Method of Death, 2011	112
HOMICIDE DEATHS OF CHILDREN (N=35)	113
Figure 67. Child Homicide Deaths by Year of Death, 1999-2011	113
Figure 68. Child Homicide Deaths by Age by Gender, 2011	114
Figure 69. Child Homicide Deaths by Race/Ethnicity, 2011	114

Figure 70. Child Homicide Deaths by Month of Death, 2011	115
Figure 71. Child Homicide Deaths by Day of Death, 2011	115
Table 29. Child Homicide Deaths by Method of Death, 2011	
UNDETERMINED DEATHS OF CHILDREN (N=80)	117
Figure 72. Undetermined Child Deaths by Year of Death, 2006-2011	117
Figure 73. Undetermined Child Deaths by Age by Gender, 2011	
Figure 74. Undetermined Child Deaths by Race/Ethnicity, 2011	118
Table 30. Undetermined Child Deaths by Cause of Death, 2011	
SECTION 5: MOTOR VEHICLE COLLISIONS RELATED DEATHS (N=875)	
Figure 75. Motor Vehicle Deaths by Year of Death, 2003-2011	120
Figure 76. Motor Vehicle Deaths by Manner, 2011	121
Figure 77. Motor Vehicle Deaths by Age Group by Gender, 2011	121
Figure 78. Motor Vehicle Deaths by Age Group by Gender by Ethanol Presence, 2011	
Figure 79. Motor Vehicle Deaths by Ethanol Level, 2011	122
Figure 80. Motor Vehicle Deaths by Race/Ethnicity, 2011	123
Figure 81. Motor Vehicle Deaths by Race/Ethnicity by Ethanol Presence, 2011	123
Table 31. Motor Vehicle Deaths by Age Group by Position In or Out of Vehicle, 2011	124
Figure 82. Motor Vehicle Deaths by Position In or Out of Vehicle by Ethanol Level, 2011	124
Table 32. Motor Vehicle Deaths by Decedent Status by Vehicle Type by Ethanol Level, 2011	125
Table 33. Motor Vehicle Deaths by County of Residence, 2011	127
SECTION 6: DRUG/POISON CAUSED DEATHS	129
OVERALL DRUG/POISON DEATHS (N=818)	129
Figure 83. Total Drug/Poison Deaths by Year of Death, 1999-2011	129
Table 34. Drug/Poison Deaths by OCME District, 2011	130
Figure 84. Drug/Poison Deaths by Manner, 2011	130
Figure 85. Drug/Poison Deaths by Age Group by Gender, 2011	131
Table 35. Drug/Poison Deaths by Age Group by Manner, 2011	131
Figure 86. Drug/Poison Deaths by Race/Ethnicity, 2011	132
Table 36. Drug/Poison Deaths by Cause of Death by OCME District, 2011	132
Table 37. Drug/Poison Deaths by Cause of Death by Manner, 2011	133
Figure 87. Specific Type of Drug Category Deaths by Year of Death, 2011	133
Figure 88. Drug/Poison Deaths by Drug Category by Gender, 2011	134
Figure 89. Specific Drug Category Deaths by Race/Ethnicity, 2011	134
Figure 90. Specific Drug Category Deaths by Ethanol Level, 2011	135
Table 38. Drug/Poison Deaths by Cause of Death by Alcohol Also Causing Death, 2011	135

Figure 91. Classes of All Drugs/Poisons Present* in Drug/Poison Deaths, 2011	136
Table 39. All Drugs/Poisons/Active Metabolites Present* in Drug/Poison Deaths, 2011	136
Figure 92. Classes of All Drugs/Poisons Causing Death in Drug/Poison Deaths, 2011	141
Table 40. Drugs/Poisons/Active Metabolites Causing Death in Drug/Poison Deaths, 2011	141
Table 41. Drug/Poison Deaths by City/County of Residence, 2011	145
Figure 93. Drug/Poison Deaths by City/County of Residence, 2011	147
Figure 94. Drug/Poison Death Rates by City/County of Residence, 2011	148
FENTANYL, HYDROCODONE, METHADONE & OXYCODONE DEATHS (N=394)	149
Figure 95. Comparison of FHMO, Prescription and All Drug Deaths by Year of Death, 1999-2011	
Table 42. FHMO Combination Deaths, 2011	150
Table 43. FHMO Combination Deaths by District, 2011	150
Table 44. FHMO Combination Deaths by Race/Ethnicity, 2011	151
Table 45. FHMO Combination Deaths by Gender, 2011	151
Figure 96. FHMO Deaths by Age Group, 2011	152
Table 46. FHMO Combination Deaths by Alcohol Also Caused Death, 2011	152
Table 47. FHMO Deaths & Rates by City/County of Residence, 2011	153
Figure 97. FHMO Deaths by City/County of Residence, 2011	155
Figure 98. FHMO Death Rates by City/County of Residence, 2011	156
COCAINE & HEROIN DEATHS (N=199)	157
Table 48. Cocaine & Heroin Combination Deaths, 2011	157
Table 49. Cocaine & Heroin Combination Deaths by District, 2011	157
Table 50. Cocaine & Heroin Combination Deaths by Race/Ethnicity, 2011	158
Table 51. Cocaine & Heroin Combination Deaths by Gender, 2011	158
Figure 99. Cocaine & Heroin Combination Deaths by Age Group, 2011	158
Table 52. Cocaine & Heroin Combination Deaths by Alcohol Also Causing Death, 2011	159
Table 53. Cocaine & Heroin Combination Deaths by City/County, 2011	159
Figure 100. Cocaine & Heroin Deaths by City/County of Residence, 2011	161
Figure 101. Cocaine & Heroin Death Rates by City/County of Residence, 2011	161
SECTION 7: IN CUSTODY (PRISONER) POPULATION (N=143)	162
Figure 102. Prisoner Deaths by Manner, 2011	162
Figure 103. Prisoner Deaths by Race/Ethnicity, 2011	163
Figure 104. Prisoner Deaths by Age Group by Gender, 2011	163
Figure 105. Prisoner Deaths by Manner by Race/Ethnicity, 2011	164
Table 54. Prisoner Deaths by Cause of Death, 2011	164
SECTION 9: STATE MENTAL HEALTH CASES (N=80)	166

Figure 106. State Mental Health Deaths by Manner, 2011	166
Figure 107. State Mental Health Deaths by Race, 2011	167
Figure 108. State Mental Health Deaths by Age Group by Gender, 2011	167
Table 55. State Mental Health Deaths by Facility Type by Gender, 2011	168
Table 56. State Mental Health Deaths by Facility Type by Race, 2011	168
Table 57. State Mental Health Deaths by Cause of Death, 2011	168
SECTION 10: RECOVERED UNREPORTED CASES (N=146)	170
Figure 109. Retrospective Cases by Manner, 2011	170
Figure 110. Retrospective Cases by Race/Ethnicity, 2011	171
Figure 111. Retrospective Cases by Age Group by Gender, 2011	171
Table 58/ Retrospective Cases by Method of death and by Classification of Death, 2011	172
GLOSSARY	173

#### **Letter from the Chief Medical Examiner**

The Department of Health's Office of the Chief Medical Examiner (OCME) is proud to present the 2011 annual report. Dr. Anna Noller, the OCME State Epidemiologist, and Mr. Curtis Conway, the OCME Case Database Manager, were instrumental in collating data and preparing this detailed report. The OCME annual report not only provides specific information about deaths occurring within the Commonwealth of Virginia but also fulfills a requirement for the statewide accreditation of the Virginia OCME by the National Association of Medical Examiners. This report details the cases investigated by the OCME and identifies deadly trends in Virginia providing a valuable resource to Virginia's leader and citizens to enhance death prevention and surveillance efforts and protect the lives of all Virginians.

As a model statewide death investigation system with four district offices, the OCME fulfills a core function mandated by the Code of Virginia, § 32.1-283. By Code, the OCME is tasked with investigating the deaths of individuals occurring in Virginia from trauma or violence, when sudden and unexpected, while unattended by a physician, violently, under suspicious circumstances or in law enforcement custody. When cases falling under the jurisdiction of the OCME are reported to one of the four district OCME offices, the case information is immediately entered into the Virginia Medical Examiner Database (VMEDS) and the case is managed through this statewide data system allowing for consistent, reliable case data that can be reviewed and interpreted for this annual report. Critical analysis of this data by Dr. Noller has revealed several trends that I want to share with the citizens and leaders of Virginia.

Some of the important trends for 2011 recognized through VMEDS data analysis include:

- The number of homicides in Virginia has decreased 11.8 percent from 2010 levels. Similar to previous years, homicides most frequently occurred in males (74.5%) and in the African American population (55.9%). For the second year in a row, there was a decrease in child homicides deaths to the lowest number of child homicides in 13 years.
- The elderly are at risk for accidental deaths with high rates of death from falls in those over 75.
- The overall suicide rate is the highest in 13 years. Older males are at a very high risk for suicide after 65
  while elderly female suicide rates decline in that age group. The months showing the highest numbers
  of suicide deaths are April and October, not the winter holiday months.

- Drug deaths continue to be a problem with the overall number of drug/poisoning cases increasing significantly, by 18.2%, from the 2010 level giving 2011 the highest rate (9.6 per 100,000) of drug deaths to date. For the first time, the overall rate of drug/poison deaths for Virginia residents (9.6 per 100,000) exceeds the rate of death of Virginia residents from motor vehicle collisions (9.4 per 100,000) occurring in Virginia. Again, the Western Office handled the greatest proportion of drug deaths in Virginia as 1/3 of these cases occurred in that district.
- Deaths from illegal drugs skyrocketed this year with 143 deaths, up 70.2% from 2010 levels.
- Deaths from any cause are most frequent on Mondays. When broken down by manner of death, most natural and suicide deaths occurred on Monday and most accidental deaths occurred on Friday.

Final thanks must go to the dedicated and caring staff of the Office of the Chief Medical Examiner who must everyday help grieving families navigate the tragedy of their loved one's death. Their commitment to our mission allows the Virginia OCME to remain a respected, model system for the nation.

#### Introduction

This report represents the deaths investigated by the Virginia Department of Health, Office of the Chief Medical Examiner in 2011.

#### **Data Collection and Preparation**

The data in this report reflects deaths accepted by the Office of the Chief Medical Examiner (OCME) pursuant to §32.1-283 of the Code of Virginia for the 2011 calendar year. These deaths are both Virginia residents and non-residents whose deaths generally occurred within the borders of the Commonwealth of Virginia. The Virginia OCME classifies these deaths by its own coding schema which differs from mortality data published by other OCME surveillance groups, law enforcement agencies, the Virginia Center for Health Statistics, and the Centers for Disease Control & Prevention. Therefore, any discrepancies between data presented by the OCME and other nosology groups are the result of data collection and analytic variations among these groups.

#### **Statistical Summary**

- Data entitled "Total Cases" is based on both Virginia residents and non-Virginia residents who have come under the jurisdiction of the Office of the Chief Medical Examiner
- Rates
  - o Based on only Virginia residents (Resident Rates)
  - Are per 100,000 of the specific population being described
- Race/Ethnicity
  - Hispanic ethnicity may be of any race
  - All races (Asian, Black, Native American White, Other) represent those who have been identified as non-Hispanic ethnicity
- Percents may equal to above or below 100 percent due to rounding
- Toxicology
  - Results are based on blood specimens

#### SECTION 1: OVERVIEW - OFFICE OF THE CHIEF MEDICAL EXAMINER

The General Assembly of Virginia abolished the Office of Coroner's Physician in 1946 and appointed a Chief Medical Examiner. Four years later, the Office of the Chief Medical Examiner (OCME) became an agency within the Virginia Department of Health. The OCME has 4 district offices, all accredited by the National Association of Medical Examiners, to serve the citizens of the Commonwealth.

#### **Jurisdictional Authority**

Pursuant to § 32.1-283 of the Code of Virginia, all of the following deaths are investigated by the OCME:

- Any death from trauma, injury, violence, or poisoning attributable to accident, suicide or homicide
- Sudden deaths of persons in apparent good health and deaths unattended by a physician
- Deaths of persons in jail, prison, or another correctional institution, or in police custody (this includes deaths during legal intervention such as a death following a police pursuit)
- Deaths of patients/residents of state mental health facilities
- Sudden death of any infant less than eighteen months of age whose death might be attributable to
   Sudden Infant Death Syndrome and
- Any other suspicious, unusual, or unnatural death

In Virginia, local medical examiners, the backbone of our medical examiner system, conduct medicolegal death investigations, many serving as the principal case investigators in their localities for deaths falling within the OCME's jurisdiction and statutory authority. In 2011, the OCME supported approximately 210 local medical examiners who received the majority of initial notifications of death and determine if the death should come under the jurisdiction of the medical examiner. After information gathering, local medical examiners may externally examine the body, collect a toxicology sample, and sign the certificate of death on medical examiner cases or, using professionally established guidelines, refer certain classes of cases for more intensive death investigation and medicolegal autopsy, which includes both an internal and external examination.

When an autopsy is required, it is conducted at one of four district offices: Northern, Tidewater, Central or Western. Each district is staffed by American Board of Pathology certified forensic pathologists, investigators

certified by the American Board of Medicolegal Death Investigators and administrative and morgue personnel. Virginia's fifth Chief Medical Examiner, Dr. Leah L.E. Bush, is based in the Richmond office and is responsible for the overall operations of the state's medical examiner system.

The overall vision of the Virginia OCME is to be a model medical examiner system. There are two separate parts of the mission that form the core of OCME staff members' efforts in accomplishing this goal:

#### **Medicolegal Mission**

- Conduct medicolegal death investigations
- Perform autopsies to certify cause and manner of death and recover evidence
- Testify in court proceedings
- Provide public service to citizens and professional colleagues throughout the Commonwealth
- Educate peers and professionals on subjects related to death investigation

#### **Public Health Mission**

- Reduce violent death by conducting surveillance and fatality review
- Provide support and technical assistance to local fatality review teams
- Identify index cases and pathogens in disease outbreaks in the interest of public health
- Cooperate with organ procurement organizations to save and enhance lives through organ and tissue donation and transplantation
- Administer the State Anatomical Program to provide cadavers for medical education

Virginia's local medical examiners and forensic pathologists are committed to public safety and public health. To promote public safety, they testify to their findings in criminal and civil courts throughout the Commonwealth. They advance public health through their investigations of deaths that present a hazard to Virginia's citizens, such as emerging infections and bioterrorism. This report describes medical examiner activities for the 2011 calendar year.

#### Virginia 2011

In 2011, the estimated population of the Commonwealth was 8,096,604, ranking 12<sup>th</sup> among the states.

Virginia's population density is 205 persons per square mile, with an estimated 86% of the population living in

Virginia Department of Health

Office of the Chief Medical Examiner

December 2012

urban areas. Non-Hispanic whites constituted 64.5% of the population, non-Hispanic blacks 19.8%, non-Hispanic Asians 5.8%, non-Hispanic Native Americans 0.5% and Hispanics, who may be of any race, were 8.2% of Virginia's people.

#### **Fatality Review and Surveillance Programs**

In addition to conducting medico-legal death investigations to identify the cause and manner of death, the OCME oversees several public health surveillance projects and fatality review teams. Surveillance projects include the Family and Intimate Partner Violence Homicide Surveillance Project (FIPV), the Virginia Violent Death Reporting System (VVDRS), and the Pregnancy-Associated Mortality Surveillance System (PAMSS). Fatality review is performed on child and maternal deaths at the state level and on child and domestic violence related deaths at the local and regional level.

These activities are designed to provide a better understanding of the circumstances of death so that legislators, policy makers, and other stakeholders can make informed decisions for injury and violence prevention. Surveillance projects and fatality review teams allow for something good to come from the violence and destruction of human life. A description of each of these efforts follows.

The Family and Intimate Partner Violence Homicide Surveillance Project (FIPV) was established in 1999 to describe the magnitude of lethal domestic violence in Virginia. Project staff members examine death investigation records and news reports to identify cases in which the alleged offender was an intimate partner or family member. After cases are identified, they are placed in one of six violence-related homicide categories: intimate partner, intimate partner associated, child by caregiver, elder by caregiver, other family, and family associated. Information collected through this project is analyzed and published by the OCME. Reports are disseminated to stakeholders and used to support public policy and prevention activities.

Twelve years of data reveal the following trends:

- On average, one-third of all homicides were due to family or intimate partner conflict.
- Males and females were both vulnerable; however, women had a greater probability of being killed by current or former intimate partners, whereas males had a greater probability of being killed in the crossfire of an intimate partner relationship or by a family member.

- Racial disparities continued to exist: Black Virginians were at significantly greater risk for family and intimate partner homicide than White Virginians.
- Infants were our most vulnerable citizens.
- Most victims were killed with a firearm and while in a residence.
- Risk factors associated with intimate partner violence, such as prior acts of violence, substance abuse, and periods of separation or divorce, are also associated with intimate partner homicide.
- The majority of homicide-suicide in Virginia is related to intimate partner conflict. Approximately 30% of intimate partner homicides involve the suicide of the alleged offender.

Published reports from this project are available at

http://www.vdh.virginia.gov/medExam/familyintimatepartnerviolencehomicidesurveillance.htm

The Virginia Violent Death Reporting System (VVDRS) was implemented in 2003 as part of the National Violent Death Report System (NVDRS). Virginia was among the first six states, and the first state-wide medical examiner system, to be funded for this project.

The VVDRS collects information about deaths due to violence (suicide, homicide, legal intervention, unintentional firearm discharge, deaths of an undetermined manner, and deaths due to terrorism) and correlates victim information with the circumstances surrounding the death. Data from several sources, among them forensic pathology, forensic science, law enforcement, vital records, and health statistics, are linked to provide a comprehensive picture of violent death in the Commonwealth of Virginia.

Data from the VVDRS have illustrated suicide risk for active duty military and veterans; an increased suicide risk for older adults, especially males; the prevalence of mental health problems and subsequent treatment among persons who commit suicide; a link between suicide and criminal legal problems and physical health problems; and warning signs that precede many suicides, such as disclosing intent to harm oneself or having prior suicide attempts. VVDRS data is currently being utilized to update Virginia's Suicide Prevention across the Lifespan plan.

Funded by the Centers for Disease Control and Prevention (CDC), VVDRS published reports are available at http://www.vdh.virginia.gov/medExam/NVDRS.html/.

The State Child Fatality Review Team was established in 1995 by the Virginia General Assembly and the Governor of Virginia. Working in the spirit of public health, the Team conducts multidisciplinary, retrospective reviews of the circumstances surrounding violent and unexpected child death and develops consensus recommendations for the prevention of future deaths. Team members include representatives from pediatrics, emergency medicine, child psychiatry, law enforcement, mental health, social services, forensic pathology, Commonwealth's attorneys, local fire and emergency medical services providers, injury prevention groups, child advocacy organizations, and state agencies.

The Team has completed reviews and developed recommendations for intervention and prevention in the following areas of child death: firearm; suicide; unintentional injury to children under the age of five; caretaker homicide; motor vehicle collision; and child deaths from heat-related motor vehicle entrapment. It is currently reviewing infant deaths attributed to Sudden Infant Death Syndrome, Sudden Unexplained Infant Death, and those related to unsafe sleeping environments. Among other findings, the Team has identified family violence and economic instability as risk factors for homicide of young children and the significance of diligent adult supervision in preventing unintentional injury death. It has recognized the prevalence of motor vehicle collisions as the most frequent cause of child unintentional injury deaths.

In 2012, Virginia established regional child fatality review teams in all five Virginia Department of Social Services (VDSS) regions in the Commonwealth. These teams review all child deaths taken for investigation of child abuse or neglect by Child Protective Services (CPS), regardless of finding. The OCME provides training and technical assistance to these teams, assisting them with the theory and practice of effective child fatality review, and develops guidance documents and trainings for team members, coordinators, and recorders. The OCME also assists these regional teams with the process of developing recommendations for intervention and prevention of child deaths.

Child fatality review is supported by the Virginia Department of Health, Office of Family Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau. Published reports are available at: http://www.vdh.virginia.gov/medExam/ChildFatality.htm.

**Domestic Violence Fatality Review** was established in 1999 when the General Assembly enacted §32.1-283.3 of the Code of Virginia. This statute provides for the establishment of local/regional domestic violence fatality review teams, and directs the OCME to provide technical assistance and support to these teams.

Domestic violence fatality review has gained prominence and momentum in the last decade, both here in Virginia and across the United States. The purpose of domestic violence fatality review is to prevent future deaths by carefully examining the events that led to a fatality; by analyzing system responses to those deaths; and by improving a community's coordinated response to domestic violence. Multidisciplinary teams are formed at the local or regional level. Membership in these teams varies among localities, but generally includes representatives from law enforcement, Commonwealth's attorneys, social services, courts, probation and parole, domestic violence programs, and mental health/healthcare.

Virginia has made great progress in the area of domestic violence fatality review. Seventeen local or regional teams have been established throughout the Commonwealth. Reports published by Virginia's local teams provide information on the victims and perpetrators in these fatal incidents, as well as the lethality factors that shaped these tragedies. Teams have developed recommendations for improved community response when deadly violence occurs among family members or intimate partners.

In 2012, the OCME continued work with the Virginia Partnership for Community Defined Solutions to Sexual and Domestic Violence to begin development of a state-wide database for collecting data on cases reviewed by local and regional teams. This database will allow the state to track and analyze more than 120 data elements related to domestic violence homicide collected during the fatality review process, which will add to the quality of information already collected through surveillance. Data collection and reporting tools created as part of this project will also assist local and regional teams in the review process, and improve their ability to share findings and recommendations with their communities.

Information on Virginia's domestic violence fatality review effort, as well as links to state and national resources, can be found at <a href="https://www.vdh.virginia.gov/medExam/Violence.htm">www.vdh.virginia.gov/medExam/Violence.htm</a>.

Virginia's Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mortality Review Team (MMRT) are housed in the OCME. Surveillance of all deaths of women occurring during pregnancy or within one year of pregnancy (termed "pregnancy-associated death") is conducted to provide up-to-date information on patterns and trends. Data from PAMSS indicates pregnancy-associated maternal death in Virginia remains a significant public health problem. Deaths due to motor vehicle accidents and other accidents such as fire and falls have shown consistent reductions across the past ten years. Deaths due to natural causes, accidental overdoses, homicides, and suicides have fluctuated across time but are currently at their highest levels.

Rising maternal mortality rates throughout the United States have led to renewed interest in expanding state-based review Teams. Virginia's Maternal Mortality Review Team is one of the longest continuously functioning multidisciplinary review Teams in the U.S. The Team was established in March of 2002 as a partnership between the Office of Family Health Services and the OCME. The OCME provides coordination for the Team. Our Team is often asked to provide resources to other states considering undertaking maternal mortality reviews.

The Maternal Mortality Review Team reviews all cases of pregnancy-associated death, regardless of the cause or manner of death or outcome of the pregnancy. Systematic, retrospective review of these deaths is undertaken for the purpose of understanding the circumstances surrounding the death so that recommendations and interventions can be made to prevent future deaths.

The Team is a multidisciplinary group of professionals and includes representatives from the Medical Society of Virginia; Virginia Section of the American College of Obstetricians and Gynecologists; Virginia Chapter of the American College of Nurse Midwives; Association of Women's Health, Obstetrics and Neonatal Nurses; Virginia Chapter of the National Association of Social Workers; Virginia Hospital and Healthcare Association; Virginia Sexual and Domestic Violence Action Alliance; Virginia Dietetic Association; Regional Perinatal Councils; local health departments; and state planning agencies. To date, the Team has focused on intimate partner violence, substance abuse, mental illness, and obesity as risk factors for premature and preventable death. In addition, motor vehicle incidents were identified as a major cause of death among women within one year of a pregnancy. The Team has also focused on deaths that were directly related to pregnancy and

recently published a report on deaths associated with cardiovascular disease. Recommendations for prevention and intervention to address these factors have been promulgated.

Maternal mortality review is supported by the Virginia Department of Health, Office of Family Health Services with Title V funds from the U.S. Department of Health and Human Services, Maternal and Child Health Bureau. Published reports are available at: <a href="http://www.vdh.virginia.gov/medexam/maternalmortality.htm">http://www.vdh.virginia.gov/medexam/maternalmortality.htm</a>.

#### **Training and Education**

#### Forensic Pathology Training Programs

Website — <a href="http://www.vdh.state.va.us/medExam/training.htm">http://www.vdh.state.va.us/medExam/training.htm</a>

The Virginia Commonwealth University School of Medicine (VCU), in conjunction with the OCME, offers an Accreditation Council for Graduate Medical Education (ACGME) accredited fellowship in the subspecialty of forensic pathology. The nine board-certified forensic pathologists of the Central, Tidewater, and Western District offices are the core faculty of the Department of Legal Medicine at VCU, chaired by the Chief Medical Examiner, Dr. Leah Bush. Medical Examiner's office staff has full access to facilities at VCU and its medical, dental, pharmacy, hospital administration, nursing, and other health science schools. The forensic pathology training program is designed to provide flexibility in training and experience depending upon the individual physician's career objectives.

 A 12-month forensic pathology fellowship for the trainee desiring eligibility to take the American Board of Pathology examination in forensic pathology

It is the aim of the forensic pathology training program that, by the end of the fellowship year, the trainee can adequately manage the great majority of medicolegal death investigations with self-assurance and technical competence. The trainee will be ready to accept a position in all types of Medical Examiner/Coroner systems.

- A 1-month rotation for medical resident who needs exposure to forensic pathology as part of a general anatomic pathology program. The residents usually are from the Virginia Commonwealth University and University of Virginia pathology programs, but residents from other in-state or out of state programs may be accepted for training
- Medical students may also rotate through the OCME on month long elective rotations

During the last academic year 2011-2012, the OCME trained three fellows and ten pathology residents as well as several medical students.

#### National Association of Medical Examiners Accreditation

The National Association of Medical Examiners (NAME) is the professional organization for physician medical examiners, medicolegal death investigators and death investigation system administrators who investigate deaths of public interest, either legal or public health, in the United States. NAME has developed an accreditation process to improve the quality of death investigation within medical examiner offices and systems. When an office is accredited by NAME, it is an endorsement that the office has provided an environment adequate for a medical examiner to practice his or her profession and that the office can adequately serve its jurisdiction. The accreditation process includes but is not limited to: inspection of facilities, review of facility and personnel safety, qualification of medical examiners, review of medical legal procedures, and review of reports and records. One requirement within the reports and records section is an annual statistical report, which OCME fulfills with this report. The following data is needed for the NAME requirement for the annual statistical report:

		Central	Northern	Tidewater	Western	Total
A. Deaths reported:		2947	1785	1564	1966	8262
B. Cases accepted:		1626	1287	1263	1494	5670
	Retrospectives (handled separately)	14	12	28	92	146
C. Manners of death	:					
	Accident	667	555	467	652	2341
	Homicide	116	38	113	78	345
	Natural	520	384	424	428	1756
	Suicide	297	271	207	292	1067
	Undetermined	26	39	52	44	161
D. Scene Visits		329	42	264	118	753
E. Bodies transported by office:		1626	1287	1263	1494	5670
F. External examinations:		789	587	630	587	2593
G. Complete examina	ations (autopsy):	822	670	628	906	3026
H. Partial examinations:		15	30	5	1	51
I. Hospital autopsies	under ME jurisdiction:	0	0	6	0	6
J. Cases with toxicology:		877	1255	1133	1510	4775
K. Unidentified bodie	es after examination:	4	1	0	1	6
L. Organ & tissue donations:		45	69	49	24	187
L2. Eye donations:		18	1	132	8	27
M. Unclaimed bodies:		8	3	2	8	21
N. Exhumations:		0	0	0	0	0
O. Bodies transported to office:			871	808	1111	3971

#### **SECTION 2: TOTAL CASES (N=5670)**

In 2011, the Office of the Chief Medical Examiner (OCME) investigated 8,262 deaths, representing 13.7% of the estimated total deaths in Virginia and accepted 5,670 or 68% of these deaths as either autopsies or external examinations (views). [NOTE: Retrospective cases are not included in the total case count, but are examined separately in Section 9 because while these deaths were investigated in 2011, they may not necessarily have occurred in 2011.] The caseload for 2011 represented a 1.8% increase from 2010. Of the deaths investigated by the OCME in 2011:

- The numbers of homicide and natural deaths decreased compared to 2010 while accidents, suicides and undetermined deaths increased
- Blacks continue to share a higher burden of homicides compared to their percentage of the general population
- Males continue to represent approximately 70% of all OCME deaths
- The 45-54 year old age group had the greatest number of cases representing 20.1 percent of cases
- Fairfax County had the most number of residents die (n=416) but Dickenson County had the highest rate (177.9 residents per 100,000)

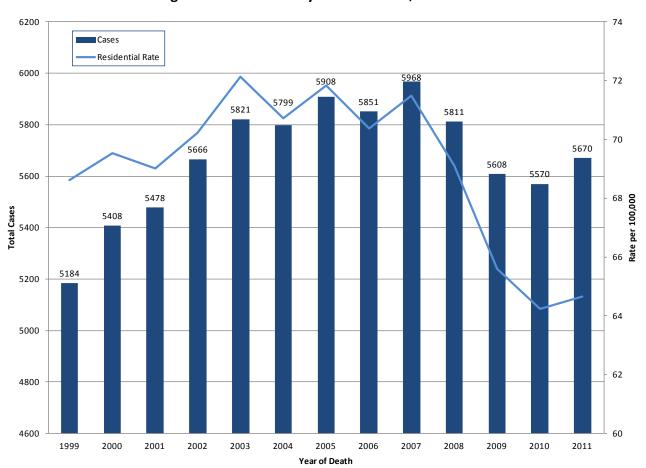


Figure 1. Total Cases by Year of Death, 1999-2011

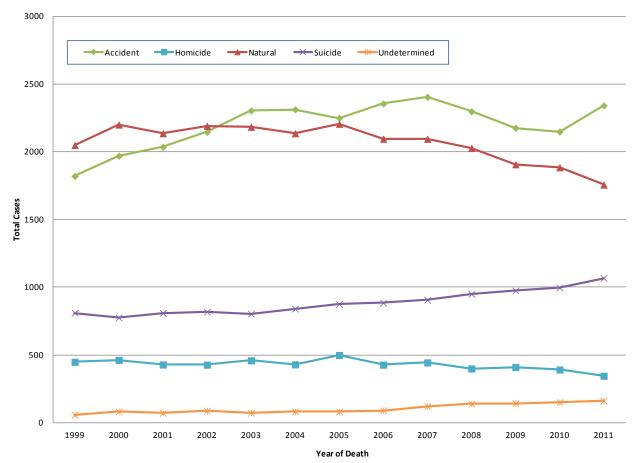


Figure 2. Total Cases by Year of Death by Manner, 1999-2011



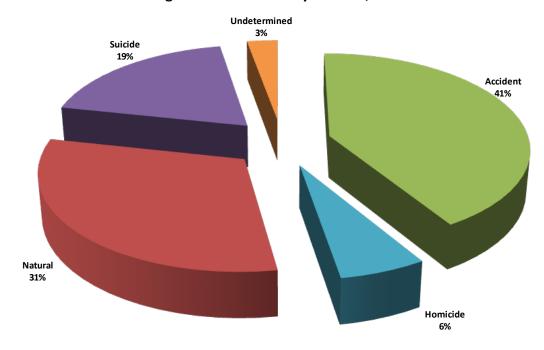


Table 1. Total Cases by OCME District by Manner, 2011

#### **OCME District**

Manner	Central	Northern	Tidewater	Western	Total
Accident	667	555	467	652	2341
Homicide	116	38	113	78	345
Natural	520	384	424	428	1756
Suicide	297	271	207	292	1067
Undetermined	26	39	52	44	161
Total	1626	1287	1263	1494	5670

Table 2. Total Cases by Autopsy Status by OCME District, 2011

**Autopsy Performed** 

Yes	No	Total
837	789	1626
700	587	1287
633	630	1263
907	587	1494
3077	2593	5670
	837 700 633 907	837 789 700 587 633 630 907 587

Table 3. Total Cases by Manner by Autopsy Status, 2011

Autopsy	Accident	Homicide	Natural	Suicide	Undetermined	Total
Yes	962	344	805	817	149	3077
No	1379	1	951	250	12	2593
%Yes	41.1%	99.7%	45.8%	76.6%	92.5%	54.3%
Total	2341	345	1756	1067	161	5670

Table 4. Total Cases by Race/Ethnicity, 2011

Race/Ethnicity	Cases	Percent
Asian	122	2.2%
Black	1183	20.9%
Hispanic	165	2.9%
<b>Native American</b>	7	0.1%
Other	3	0.1%
Unknown	4	0.1%
White	4186	73.8%
Total	5670	100%

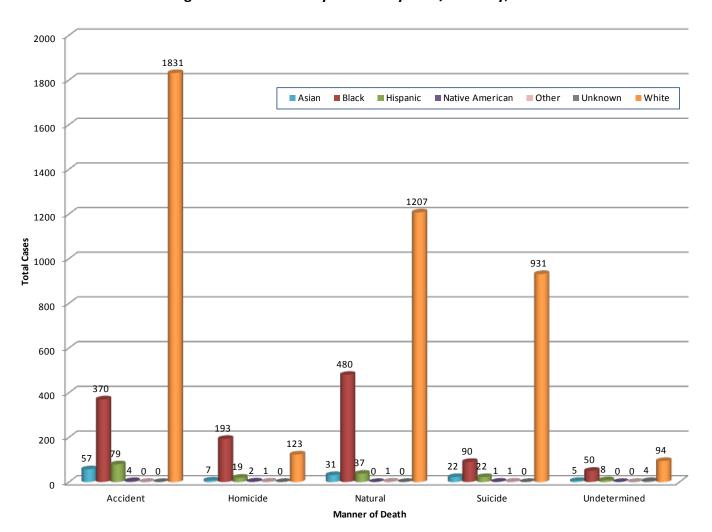


Figure 4. Total Cases by Manner by Race/Ethnicity, 2011

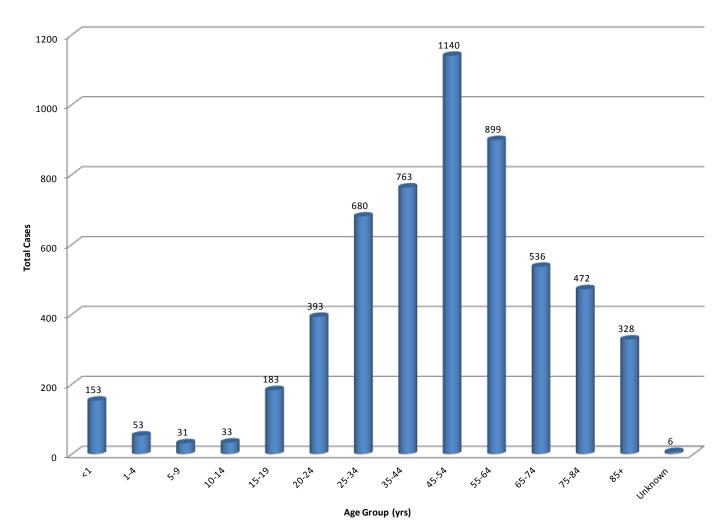


Figure 5. Total Cases by Age Group, 2011

Table 5. Total Cases by Gender, 2011

Gender	Cases	Percent
Male	3945	69.6%
Female	1722	30.4%
Unknown	3	0.1%
Total	5670	100%

Table 6. Total Cases by Manner by Gender, 2011

	Accident	Homicide	Natural	Suicide	Undetermined	Total
Male	1572 (67.2%)	257 (74.5%)	1205 (68.6%)	828 (77.6%)	83 (51.6%)	3945 (69.6%)
Female	769 (32.8%)	88 (25.5%)	551 (31.4%)	239 (22.4%)	75 (46.6%)	1722 (30.4%)
Unknown	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (1.9%)	3 (0.1%)
Total	2341	345	1756	1067	161	5670

Figure 6. Total Cases by Manner by Gender, 2011

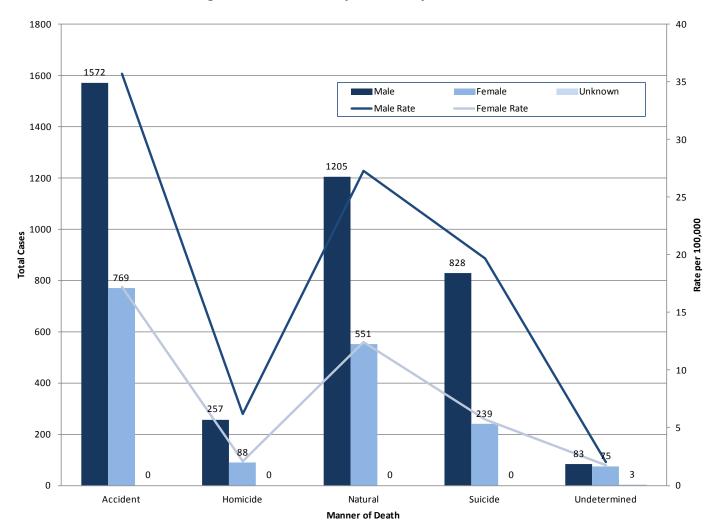


Table 7. Total Cases by Manner by Gender by Age Group, 2011

Gender	Age Group	Accident	Homicide	Natural	Suicide	Undetermined	Total	
	<1	17	5	24	0	38	84	
	1-4	13	3	7	0	4	27	
	5-9	10	3	2	0	1	16	
	10-14	15 3 1		2	1	22		
	15-19	60	24	8	41	0	133	
	20-24	156	48	25	70	3	302	
Male	25-34	242	64	71	127	5	509	
iviale	35-44	225	43	136	114	6	524	
	45-54	268	32	345	191	10	846	
	55-64	210	19	312	126	8	675	
	65-74	119	3	160	76	5	363	
	75-84	151	7	83	60	1	302	
	85+	86	2	30	21	0	139	
	Unknown	0	1	1	0	1	3	
	Subtotal	1572	257	1205	828	83	3945	
	<1	11	6	20	0	32	69	
	1-4	11	4	8	0	3	26	
	5-9	9	1	4	0	1	15	
	10-14	7	0	2	2	0	11	
	15-19	34	5	4	7	0	50	
	20-24	47	9	13	22	0	91	
Female	25-34	82	15	34	30	10	171	
	35-44	101	16	71	45	6	239	
	45-54	115	12	101	59	7	294	
	55-64	66	9	96	43	10	224	
	65-74	68	4	75	25	1	173	
	75-84	91	4	68	4	3	170	
	85+	127	3	55	2	2	189	
	Subtotal	769	88	551	239	75	1722	
Unknown	Unknown	0	0	0	0	3	3	
	Subtotal		0	0	0	3	3	
TO <sup>-</sup>	TAL	2341	345	1756	1067	161	5670	

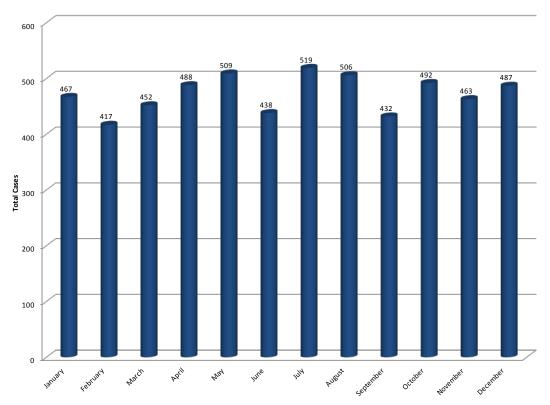
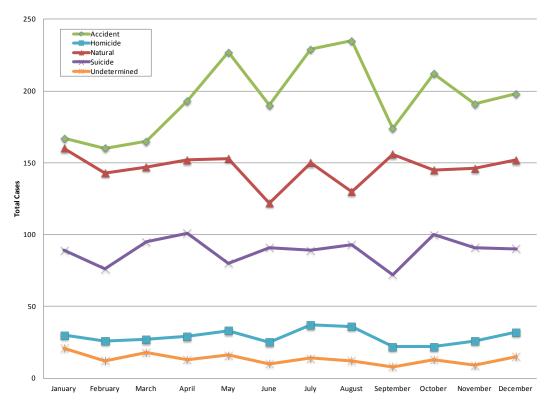


Figure 7. Total Cases by Month of Death, 2011





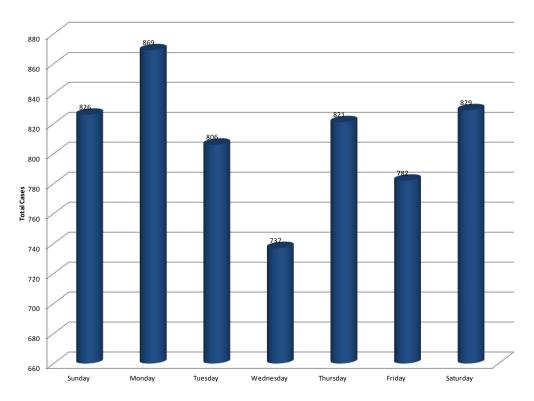
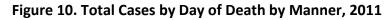


Figure 9. Total Cases by Day of Death, 2011



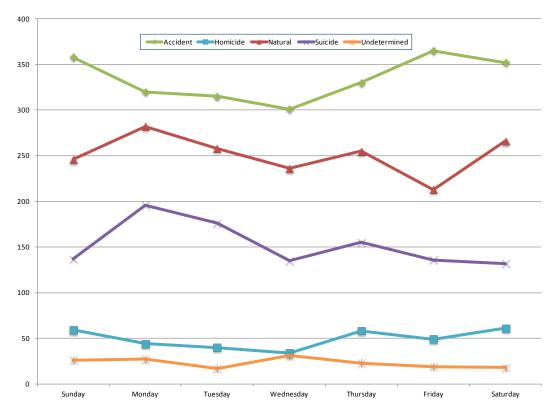


Table 8. Total Cases by Manner by City/County of Residence, 2011

County/City of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Accomack	15	45.0	6	18.0	10	30.0	5	15.0	1	3.0	37	111.0
Albemarle	25	24.9	4	4.0	10	9.9	12	11.9	1	1.0	52	51.7
Alexandria	21	14.6	1	0.7	21	14.6	16	11.1	3	2.1	62	43.0
Alleghany	3	18.5	0	0.0	4	24.7	6	37.1	0	0.0	13	80.4
Amelia	6	46.9	0	0.0	4	31.2	2	15.6	0	0.0	12	93.7
Amherst	18	56.0	1	3.1	27	83.9	4	12.4	2	6.2	52	161.7
Appomattox	6	39.9	1	6.6	0	0.0	2	13.3	0	0.0	9	59.8
Arlington	24	11.1	0	0.0	28	13.0	14	6.5	2	0.9	68	31.5
Augusta	22	29.9	1	1.4	15	20.4	12	16.3	1	1.4	51	69.3
Bath	4	85.9	1	21.5	1	21.5	2	42.9	0	0.0	8	171.8
Bedford City	3	48.5	0	0.0	1	16.2	0	0.0	0	0.0	4	64.7
Bedford	19	27.4	1	1.4	14	20.2	11	15.9	1	1.4	46	66.4
Bland	4	58.7	0	0.0	0	0.0	1	14.7	0	0.0	5	73.3
Botetourt	16	48.6	0	0.0	6	18.2	5	15.2	0	0.0	27	82.0
Bristol	6	33.8	1	5.6	9	50.7	3	16.9	0	0.0	19	107.0
Brunswick	7	40.7	1	5.8	5	29.1	1	5.8	0	0.0	14	81.4
Buchanan	17	72.1	7	29.7	15	63.6	1	4.2	0	0.0	40	169.6
Buckingham	6	34.7	1	5.8	0	0.0	2	11.6	0	0.0	9	52.1
Buena Vista	1	15.1	0	0.0	3	45.2	0	0.0	0	0.0	4	60.3
Campbell	17	30.9	1	1.8	13	23.6	10	18.2	1	1.8	42	76.3
Caroline	7	24.4	1	3.5	6	20.9	4	13.9	1	3.5	19	66.3
Carroll	8	26.7	0	0.0	9	30.0	6	20.0	1	3.3	24	80.1
Charles City	4	55.2	1	13.8	3	41.4	4	55.2	0	0.0	12	165.7
Charlotte	9	72.0	0	0.0	3	24.0	3	24.0	1	8.0	16	127.9
Charlottesville	7	16.1	2	4.6	8	18.4	0	0.0	1	2.3	18	41.4
Chesapeake	55	24.4	11	4.9	50	22.2	27	12.0	0	0.0	143	63.5

Virginia Department of Health

Office of the Chief Medical Examiner

December 2012

County/City of Residence         Accident Total         Accident Rate         Homicide Total         Natural Total         Suicide Suicide Total         Undetermined Rate         Total Total         Rate Rate         Total Rate         Rate         Total Rate         Rate         Rate         Total Rate         Rate         Rate         Total Rate         Rate         Rate         Rate         Rate         Rate         Rate         Rate         Rate<						IVIAI	iner of Dea	CII					
Chesterfield   72   22.5   12   3.7   54   16.9   39   12.2   0   0.0   177   55.3	• •												
Clarke	Residence	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate
Colonial Heights         4         22.9         4         22.9         3         17.2         1         5.7         0         0.0         12         68.8           Covington         2         33.7         1         16.8         0         0.0         1         16.8         0         0.0         4         67.4           Craig         1         19.6         0         0.0         0         0.0         2         39.2         0         0.0         3         58.8           Culpeper         18         37.9         3         6.3         11         23.2         7         14.7         0         0.0         39         82.1           Cumberland         3         30.1         0         0.0         1         10.0         3         30.1         0         0.0         7         70.2           Danville         18         42.0         7         16.3         21         49.0         5         11.7         0         0.0         28         177.9           Dirwiddle         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         77.5	Chesterfield	72	22.5	12	3.7	54	16.9	39	12.2	0	0.0	177	55.3
Covington         2         33.7         1         16.8         0         0.0         1         16.8         0         0.0         4         67.4           Craig         1         19.6         0         0.0         0         0.0         2         39.2         0         0.0         3         58.8           Culpeper         18         37.9         3         6.3         11         23.2         7         14.7         0         0.0         39         82.1           Cumberland         3         30.1         0         0.0         1         10.0         3         30.1         0         0.0         7         70.2           Danville         18         42.0         7         16.3         21         49.0         5         11.7         0         0.0         51         119.0           Dickenson         14         88.9         2         12.7         6         38.1         6         38.1         0         0.0         0         28         177.9           Dinwiddie         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2 <th>Clarke</th> <th>2</th> <th>14.0</th> <th>0</th> <th>0.0</th> <th>2</th> <th>14.0</th> <th>5</th> <th>35.1</th> <th>2</th> <th>14.0</th> <th>11</th> <th>77.1</th>	Clarke	2	14.0	0	0.0	2	14.0	5	35.1	2	14.0	11	77.1
Craig         1         19.6         0         0.0         0         0.0         2         39.2         0         0.0         3         58.8           Culpeper         18         37.9         3         6.3         11         23.2         7         14.7         0         0.0         39         82.1           Cumberland         3         30.1         0         0.0         1         10.0         3         30.1         0         0.0         7         70.2           Danville         18         42.0         7         16.3         21         49.0         5         11.7         0         0.0         28         177.9           Dinwiddie         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2           Emporia         2         34.1         2         34.1         2         34.1         0         0.0         0         0.0         6         102.2           Essex         8         71.4         1         8.9         0         0.0         2         17.8         0         0.0         11         98.2	Colonial Heights	4	22.9	4	22.9	3	17.2	1	5.7	0	0.0	12	68.8
Culpeper         18         37.9         3         6.3         11         23.2         7         14.7         0         0.0         39         82.1           Cumberland         3         30.1         0         0.0         1         10.0         3         30.1         0         0.0         7         70.2           Danville         18         42.0         7         16.3         21         49.0         5         11.7         0         0.0         51         119.0           Dickenson         14         88.9         2         12.7         6         38.1         6         38.1         0         0.0         28         177.9           Dinwiddle         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2           Emporia         2         34.1         2         34.1         0         0.0         0         0.0         0	Covington	2	33.7	1	16.8	0	0.0	1	16.8	0	0.0	4	67.4
Cumberland         3         30.1         0         0.0         1         10.0         3         30.1         0         0.0         7         70.2           Danville         18         42.0         7         16.3         21         49.0         5         11.7         0         0.0         51         119.0           Dickenson         14         88.9         2         12.7         6         38.1         6         38.1         0         0.0         28         177.9           Dinwiddie         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2           Emporia         2         34.1         2         34.1         2         34.1         0         0.0         0         0.0         0         0.0         0	Craig	1	19.6	0	0.0	0	0.0	2	39.2	0	0.0	3	58.8
Danville         18         42.0         7         16.3         21         49.0         5         11.7         0         0.0         51         119.0           Dickenson         14         88.9         2         12.7         6         38.1         6         38.1         0         0.0         28         177.9           Dinwiddle         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2           Emporia         2         34.1         2         34.1         0         0.0         0         0.0         6         102.2           Essex         8         71.4         1         8.9         0         0.0         2         17.8         0         0.0         11         98.2           Fairfax City         9         39.9         0         0.0         7         31.0         2         8.9         0         0.0         11         98.2           Fairfax         180         16.4         12         1.1         127         11.5         88         8.0         9         0.8         416         37.8           Falls Church	Culpeper	18	37.9	3	6.3	11	23.2	7	14.7	0	0.0	39	82.1
Dickenson         14         88.9         2         12.7         6         38.1         6         38.1         0         0.0         28         177.9           Dinwiddie         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2           Emporia         2         34.1         2         34.1         0         0.0         0         0.0         6         102.2           Essex         8         71.4         1         8.9         0         0.0         2         17.8         0         0.0         11         98.2           Fairfax City         9         39.9         0         0.0         7         31.0         2         8.9         0         0.0         11         98.2           Fairfax City         9         39.9         0         0.0         0 <th>Cumberland</th> <th>3</th> <th>30.1</th> <th>0</th> <th>0.0</th> <th>1</th> <th>10.0</th> <th>3</th> <th>30.1</th> <th>0</th> <th>0.0</th> <th>7</th> <th>70.2</th>	Cumberland	3	30.1	0	0.0	1	10.0	3	30.1	0	0.0	7	70.2
Dinwiddie         6         21.5         1         3.6         10         35.8         3         10.7         1         3.6         21         75.2           Emporia         2         34.1         2         34.1         0         0.0         0         0.0         6         102.2           Essex         8         71.4         1         8.9         0         0.0         2         17.8         0         0.0         11         98.2           Fairfax City         9         39.9         0         0.0         7         31.0         2         8.9         0         0.0         18         79.8           Fairfax         180         16.4         12         1.1         127         11.5         88         8.0         9         0.8         416         37.8           Falls Church         6         47.1         0         0.0         0         0.0         0         0.0         0         0.0         6         47.1           Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8<	Danville	18	42.0	7	16.3	21	49.0	5	11.7	0	0.0	51	119.0
Emporia         2         34.1         2         34.1         2         34.1         0         0.0         0         0.0         6         102.2           Essex         8         71.4         1         8.9         0         0.0         2         17.8         0         0.0         11         98.2           Fairfax City         9         39.9         0         0.0         7         31.0         2         8.9         0         0.0         18         79.8           Fairfax         180         16.4         12         1.1         127         11.5         88         8.0         9         0.8         416         37.8           Falls Church         6         47.1         0         0.0         0         0.0         0         0.0         0         0.0         6         47.1           Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5	Dickenson	14	88.9	2	12.7	6	38.1	6	38.1	0	0.0	28	177.9
Essex         8         71.4         1         8.9         0         0.0         2         17.8         0         0.0         11         98.2           Fairfax City         9         39.9         0         0.0         7         31.0         2         8.9         0         0.0         18         79.8           Fairfax         180         16.4         12         1.1         127         11.5         88         8.0         9         0.8         416         37.8           Falls Church         6         47.1         0         0.0         0         0.0         0         0.0         0         0.0         6         47.1           Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5           Fluvanna         5         19.2         0         0.0         3         34.9         0         0.0         0         0.0         14         45.3	Dinwiddie	6	21.5	1	3.6	10	35.8	3	10.7	1	3.6	21	75.2
Fairfax City         9         39.9         0         0.0         7         31.0         2         8.9         0         0.0         18         79.8           Fairfax         180         16.4         12         1.1         127         11.5         88         8.0         9         0.8         416         37.8           Falls Church         6         47.1         0         0.0         0         0.0         0         0.0         0         0.0         6         47.1           Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5           Fluvanna         5         19.2         0         0.0         5         19.2         4         15.3         0         0.0         14         53.7           Franklin City         1         11.6         0         0.0         3         34.9         0         0.0         0         0.0         4         46.6	Emporia	2	34.1	2	34.1	2	34.1	0	0.0	0	0.0	6	102.2
Fairfax         180         16.4         12         1.1         127         11.5         88         8.0         9         0.8         416         37.8           Falls Church         6         47.1         0         0.0         0         0.0         0         0.0         0         0.0         6         47.1           Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5         15         97.5         15         97.5         15         97.5         15         97.5         16.0         0         0.0         0         0.0         0         0         0.0         14         53.7         7         97.5         16.5         1         1.1         12.7         18.2         18.2         1         1.1         18.2	Essex	8	71.4	1	8.9	0	0.0	2	17.8	0	0.0	11	98.2
Falls Church         6         47.1         0         0.0         0         0.0         0         0.0         0         0.0         6         47.1           Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5           Fluxanna         5         19.2         0         0.0         5         19.2         4         15.3         0         0.0         14         53.7           Franklin City         1         11.6         0         0.0         3         34.9         0         0.0         0         0.0         4         46.6           Franklin         24         42.5         2         3.5         10         17.7         9         16.0         4         7.1         49         86.9           Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8      <	Fairfax City	9	39.9	0	0.0	7	31.0	2	8.9	0	0.0	18	79.8
Fauquier         33         49.9         1         1.5         14         21.2         12         18.2         1         1.5         61         92.3           Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5           Fluvanna         5         19.2         0         0.0         5         19.2         4         15.3         0         0.0         14         53.7           Franklin City         1         11.6         0         0.0         3         34.9         0         0.0         0         0.0         4         46.6           Franklin         24         42.5         2         3.5         10         17.7         9         16.0         4         7.1         49         86.9           Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8           Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         11         157.5	Fairfax	180	16.4	12	1.1	127	11.5	88	8.0	9	0.8	416	37.8
Floyd         8         52.0         1         6.5         4         26.0         1         6.5         1         6.5         15         97.5           Fluvanna         5         19.2         0         0.0         5         19.2         4         15.3         0         0.0         14         53.7           Franklin City         1         11.6         0         0.0         3         34.9         0         0.0         0         0.0         4         46.6           Franklin         24         42.5         2         3.5         10         17.7         9         16.0         4         7.1         49         86.9           Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8           Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         19         74.0           Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5      <	Falls Church	6	47.1	0	0.0	0	0.0	0	0.0	0	0.0	6	47.1
Fluvanna         5         19.2         0         0.0         5         19.2         4         15.3         0         0.0         14         53.7           Franklin City         1         11.6         0         0.0         3         34.9         0         0.0         0         0.0         4         46.6           Franklin         24         42.5         2         3.5         10         17.7         9         16.0         4         7.1         49         86.9           Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8           Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         19         74.0           Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5           Giles         3         17.5         1         5.8         6         35.0         5         29.2         1         5.8         16         93.4	Fauquier	33	49.9	1	1.5	14	21.2	12	18.2	1	1.5	61	92.3
Franklin City         1         11.6         0         0.0         3         34.9         0         0.0         0         0.0         4         46.6           Franklin         24         42.5         2         3.5         10         17.7         9         16.0         4         7.1         49         86.9           Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8           Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         19         74.0           Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5           Giles         3         17.5         1         5.8         6         35.0         5         29.2         1         5.8         16         93.4           Gloucester         13         35.2         2         5.4         7         19.0         13         35.2         2         5.4         37         100.3	Floyd	8	52.0	1	6.5	4	26.0	1	6.5	1	6.5	15	97.5
Franklin         24         42.5         2         3.5         10         17.7         9         16.0         4         7.1         49         86.9           Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8           Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         19         74.0           Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5           Giles         3         17.5         1         5.8         6         35.0         5         29.2         1         5.8         16         93.4           Gloucester         13         35.2         2         5.4         7         19.0         13         35.2         2         5.4         37         100.3           Goochland         4         18.3         0         0.0         3         13.7         2         9.1         0         0.0         9         41.1	Fluvanna	5	19.2	0	0.0	5	19.2	4	15.3	0	0.0	14	53.7
Frederick         24         30.1         1         1.3         12         15.1         13         16.3         4         5.0         54         67.8           Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         19         74.0           Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5           Giles         3         17.5         1         5.8         6         35.0         5         29.2         1         5.8         16         93.4           Gloucester         13         35.2         2         5.4         7         19.0         13         35.2         2         5.4         37         100.3           Goochland         4         18.3         0         0.0         3         13.7         2         9.1         0         0.0         9         41.1           Grayson         6         39.1         0         0.0         4         26.1         7         45.7         0         0.0         17         110.9 <th>Franklin City</th> <th>1</th> <th>11.6</th> <th>0</th> <th>0.0</th> <th>3</th> <th>34.9</th> <th>0</th> <th>0.0</th> <th>0</th> <th>0.0</th> <th>4</th> <th>46.6</th>	Franklin City	1	11.6	0	0.0	3	34.9	0	0.0	0	0.0	4	46.6
Fredericksburg         9         35.0         0         0.0         6         23.4         4         15.6         0         0.0         19         74.0           Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5           Giles         3         17.5         1         5.8         6         35.0         5         29.2         1         5.8         16         93.4           Gloucester         13         35.2         2         5.4         7         19.0         13         35.2         2         5.4         37         100.3           Goochland         4         18.3         0         0.0         3         13.7         2         9.1         0         0.0         9         41.1           Grayson         6         39.1         0         0.0         4         26.1         7         45.7         0         0.0         17         110.9	Franklin	24	42.5	2	3.5	10	17.7	9	16.0	4	7.1	49	86.9
Galax         4         57.3         0         0.0         2         28.6         5         71.6         0         0.0         11         157.5           Giles         3         17.5         1         5.8         6         35.0         5         29.2         1         5.8         16         93.4           Gloucester         13         35.2         2         5.4         7         19.0         13         35.2         2         5.4         37         100.3           Goochland         4         18.3         0         0.0         3         13.7         2         9.1         0         0.0         9         41.1           Grayson         6         39.1         0         0.0         4         26.1         7         45.7         0         0.0         17         110.9	Frederick	24	30.1	1	1.3	12	15.1	13	16.3	4	5.0	54	67.8
Giles       3       17.5       1       5.8       6       35.0       5       29.2       1       5.8       16       93.4         Gloucester       13       35.2       2       5.4       7       19.0       13       35.2       2       5.4       37       100.3         Goochland       4       18.3       0       0.0       3       13.7       2       9.1       0       0.0       9       41.1         Grayson       6       39.1       0       0.0       4       26.1       7       45.7       0       0.0       17       110.9	Fredericksburg	9	35.0	0	0.0	6	23.4	4	15.6	0	0.0	19	74.0
Gloucester         13         35.2         2         5.4         7         19.0         13         35.2         2         5.4         37         100.3           Goochland         4         18.3         0         0.0         3         13.7         2         9.1         0         0.0         9         41.1           Grayson         6         39.1         0         0.0         4         26.1         7         45.7         0         0.0         17         110.9	Galax	4	57.3	0	0.0	2	28.6	5	71.6	0	0.0	11	157.5
Goochland         4         18.3         0         0.0         3         13.7         2         9.1         0         0.0         9         41.1           Grayson         6         39.1         0         0.0         4         26.1         7         45.7         0         0.0         17         110.9	Giles	3	17.5	1	5.8	6	35.0	5	29.2	1	5.8	16	93.4
Grayson 6 39.1 0 0.0 4 26.1 7 45.7 0 0.0 17 110.9	Gloucester	13	35.2	2	5.4	7	19.0	13	35.2	2	5.4	37	100.3
	Goochland	4	18.3	0	0.0	3	13.7	2	9.1	0	0.0	9	41.1
Greene 4 21.4 0 0.0 2 10.7 5 26.8 0 0.0 <b>11 58.9</b>	Grayson	6	39.1	0	0.0	4	26.1	7	45.7	0	0.0	17	110.9
	Greene	4	21.4	0	0.0	2	10.7	5	26.8	0	0.0	11	58.9

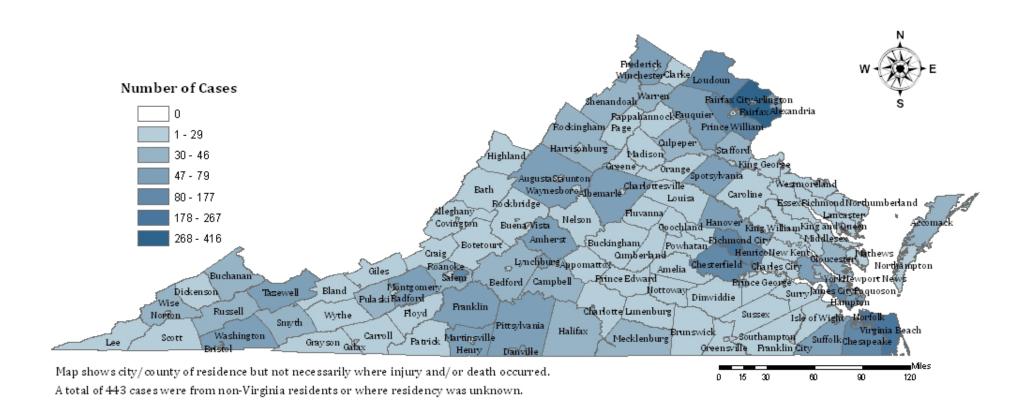
						iner of Dea	-					
County/City of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Greensville	1	8.3	0	0.0	15	123.8	3	24.8	0	0.0	19	156.9
Halifax	16	44.4	2	5.5	10	27.7	4	11.1	1	2.8	33	91.5
Hampton	32	23.5	11	8.1	20	14.7	8	5.9	8	5.9	79	57.9
Hanover	26	25.9	4	4.0	10	10.0	13	13.0	0	0.0	53	52.8
Harrisonburg	4	8.0	2	4.0	5	10.0	1	2.0	0	0.0	12	24.0
Henrico	62	20.0	13	4.2	35	11.3	37	11.9	3	1.0	150	48.3
Henry	32	59.5	5	9.3	17	31.6	12	22.3	0	0.0	66	122.8
Highland	0	0.0	0	0.0	0	0.0	1	44.1	0	0.0	1	44.1
Hopewell	8	35.4	2	8.9	6	26.6	2	8.9	0	0.0	18	79.7
Isle of Wight	8	22.6	1	2.8	6	17.0	5	14.1	0	0.0	20	56.6
James City	28	41.1	3	4.4	16	23.5	9	13.2	0	0.0	56	82.1
King and Queen	2	28.6	0	0.0	0	0.0	1	14.3	0	0.0	3	42.9
King George	11	45.5	0	0.0	2	8.3	3	12.4	0	0.0	16	66.2
King William	5	31.3	1	6.3	1	6.3	2	12.5	0	0.0	9	56.3
Lancaster	8	70.9	1	8.9	2	17.7	2	17.7	0	0.0	13	115.2
Lee	11	43.7	3	11.9	6	23.9	5	19.9	1	4.0	26	103.4
Lexington	1	14.3	0	0.0	1	14.3	0	0.0	0	0.0	2	28.6
Loudoun	32	9.8	2	0.6	27	8.3	37	11.4	4	1.2	102	31.3
Louisa	12	35.9	0	0.0	8	24.0	7	21.0	2	6.0	29	86.8
Lunenburg	3	23.3	0	0.0	5	38.8	2	15.5	0	0.0	10	77.7
Lynchburg	23	30.1	4	5.2	14	18.3	9	11.8	1	1.3	51	66.7
Madison	5	38.0	3	22.8	1	7.6	1	7.6	0	0.0	10	75.9
Manassas	8	20.4	4	10.2	1	2.5	3	7.6	2	5.1	18	45.8
Martinsville	7	51.6	3	22.1	7	51.6	3	22.1	1	7.4	21	154.9
Mathews	0	0.0	0	0.0	3	33.5	2	22.3	0	0.0	5	55.8
Mecklenburg	10	30.7	1	3.1	18	55.2	4	12.3	0	0.0	33	101.2
Middlesex	3	27.6	1	9.2	4	36.9	2	18.4	0	0.0	10	92.1
Montgomery	34	36.0	1	1.1	14	14.8	13	13.8	1	1.1	63	66.8

						iner of Dea						
County/City of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Nelson	8	53.0	1	6.6	4	26.5	2	13.2	0	0.0	15	99.4
New Kent	6	31.9	0	0.0	0	0.0	2	10.6	0	0.0	8	42.5
Newport News	43	23.9	16	8.9	48	26.7	21	11.7	8	4.5	136	75.7
Norfolk	64	26.4	27	11.1	86	35.4	25	10.3	3	1.2	205	84.5
Northampton	2	16.2	0	0.0	7	56.6	3	24.2	0	0.0	12	97.0
Northumberland	10	80.3	0	0.0	6	48.2	2	16.1	1	8.0	19	152.5
Norton	1	24.7	0	0.0	3	74.0	2	49.3	0	0.0	6	148.0
Nottoway	4	25.3	0	0.0	7	44.2	5	31.6	1	6.3	17	107.3
Orange	17	50.1	0	0.0	4	11.8	4	11.8	1	2.9	26	76.6
Page	9	37.6	0	0.0	5	20.9	10	41.7	1	4.2	25	104.3
Patrick	6	32.6	1	5.4	4	21.8	4	21.8	1	5.4	16	87.0
Petersburg	8	24.7	6	18.6	24	74.2	2	6.2	1	3.1	41	126.8
Pittsylvania	28	44.6	3	4.8	15	23.9	9	14.3	0	0.0	55	87.5
Poquoson	3	25.0	0	0.0	0	0.0	1	8.3	0	0.0	4	33.3
Portsmouth	31	32.4	16	16.7	45	47.0	6	6.3	11	11.5	109	113.9
Powhatan	6	21.3	2	7.1	13	46.2	5	17.8	0	0.0	26	92.5
Prince Edward	3	12.9	1	4.3	0	0.0	4	17.1	0	0.0	8	34.3
Prince George	9	24.6	1	2.7	7	19.1	4	10.9	0	0.0	21	57.4
Prince William	77	17.7	9	2.1	44	10.1	26	6.0	7	1.6	163	37.5
Pulaski	18	52.0	0	0.0	13	37.6	8	23.1	0	0.0	39	112.7
Radford	3	18.3	1	6.1	2	12.2	1	6.1	1	6.1	8	48.7
Rappahannock	3	40.3	0	0.0	3	40.3	2	26.9	0	0.0	8	107.5
Richmond City	79	38.4	36	17.5	70	34.1	32	15.6	5	2.4	222	108.0
Richmond	5	54.2	0	0.0	2	21.7	1	10.8	0	0.0	8	86.8
Roanoke City	35	36.2	6	6.2	30	31.0	19	19.6	7	7.2	97	100.3
Roanoke	17	18.3	1	1.1	10	10.8	14	15.1	1	1.1	43	46.4
Rockbridge	7	31.3	0	0.0	10	44.7	5	22.3	0	0.0	22	98.3
Rockingham	17	22.2	1	1.3	5	6.5	12	15.7	1	1.3	36	47.0

County/City of Residence         Accident Notal Rate         Homicide Total Notal         Natural Potal Notal No						IVIGI	illei oi Dea	(11					
Russell   20   69.6   2   7.0   17   59.1   5   17.4   2   7.0   46   160.0     Salem   6   24.0   2   8.0   2   8.0   4   16.0   1   4.0   15   60.1     Scott   9   38.9   1   4.3   5   21.6   5   21.6   2   8.6   22   95.1     Shenandoah   14   33.1   0   0.0   11   26.0   7   16.6   1   2.4   33   78.0     Smyth   11   34.3   3   9.4   13   40.6   4   12.5   1   3.1   32   99.9     Southampton   4   21.7   0   0.0   10   54.3   2   10.9   0   0.0   16   86.9     Spotsylvania   38   30.6   3   2.4   14   11.3   12   9.7   1   0.8   68   54.7     Stafford   16   12.1   2   1.5   18   13.6   10   7.6   0   0.0   0.0   46   34.8     Staunton   10   42.1   0   0.0   5   21.0   4   16.8   1   4.2   20   84.1     Suffolk   24   28.3   4   4.7   24   28.3   14   16.5   3   3.5   69   81.2     Surry   2   28.9   0   0.0   3   34.3   0   0.0   0   0.0   5   72.1     Sussex   4   33.1   0   0.0   8   66.2   1   8.3   1   8.3   1   81.3   14   115.8     Tazewell   28   62.6   0   0.0   18   40.3   6   13.4   4   8.9   56   125.2     Virginia Beach   106   23.9   16   3.6   68   15.4   64   14.5   13   2.9   267   60.3     Warren   20   53.0   0   0.0   9   23.8   6   15.9   0   0.0   35   92.7     Washington   24   43.8   3   5.5   14   25.5   10   18.2   2   3.6   53   96.7     Waynesboro   4   18.8   2   9.4   8   37.5   4   18.8   0   0.0   12   68.2     Williamsburg   0   0.0   0   0.0   3   20.8   6   41.5   1   6.9   10   69.2     Winchester   8   30.1   0   0.0   11   41.4   5   18.8   0   0.0   12   68.2     Wirke   23   55.3   1   2.4   9   21.7   9   21.7   1   2.4   43   10.5     Wythe   9   30.8   1   3.4   66   20.5   7   24.0   1   3.4   24   82.0     Wirke   23   55.3   1   2.4   9   21.7   9   21.7   1   2.4   43   10.5     Wirke   23   55.3   1   2.4   9   21.7   9   21.7   1   2.4   43   10.5     Wythe   9   30.8   1   3.4   66   20.5   7   24.0   1   3.4   24   82.0     Wirkeids   219   26.3   332   4.1   1597   19.7   1018   12.6   151   1   5   5   5   5   5   5     Out of Country   11   ND*   0	County/City of	Accident	Accident	Homicide	Homicide	Natural	Natural	Suicide	Suicide	Undetermined	Undetermined		Total
Salem         6         24.0         2         8.0         2         8.0         4         16.0         1         4.0         15         60.1           Sott         9         38.9         1         4.3         5         21.6         5         21.6         2         8.6         22         95.1           Shenandoah         14         33.1         0         0.0         11         26.0         7         16.6         1         2.4         33         78.0           Smyth         11         34.3         3         9.4         13         40.6         4         12.5         1         3.1         32         99.9           Southampton         4         21.7         0         0.0         10         54.3         2         10.9         0         0.0         16         86.9           Spotsylvania         38         30.6         3         2.4         14         11.3         12         9.7         1         0.8         68         54.7           Stafford         16         12.1         2         1.5         18         13.6         10         7.6         0         0.0         0.0         4         34.1 <th>Residence</th> <th>Total</th> <th>Rate</th> <th>Total</th> <th>Rate</th> <th>Total</th> <th>Rate</th> <th>Total</th> <th>Rate</th> <th>Total</th> <th>Rate</th> <th>Total</th> <th>Rate</th>	Residence	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate
Scott         9         38.9         1         4.3         5         21.6         5         21.6         2         8.6         22         95.1           Shenandoah         14         33.1         0         0.0         11         26.0         7         16.6         1         2.4         33         78.0           Smyth         11         34.3         3         9.4         13         40.6         4         12.5         1         3.1         32         99.9           Southampton         4         21.7         0         0.0         10         54.3         2         10.9         0         0.0         16         86.9           Spotsylvania         38         30.6         3         2.4         14         11.3         12         9.7         1         0.8         68         54.7           Stanton         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         8.4         1         4.2         20         8.4         1         4.2         20         8.4         1         4.2         20         8.1         2         9.7         1	Russell	20	69.6	2	7.0	17	59.1	5	17.4	2	7.0	46	160.0
Shenandoah         14         33.1         0         0.0         11         26.0         7         16.6         1         2.4         33         78.0           Smyth         11         34.3         3         9.4         13         40.6         4         12.5         1         3.1         32         99.9           Southampton         4         21.7         0         0.0         10         54.3         2         10.9         0         0.0         16         86.9         54.7           Stafford         16         12.1         2         1.5         18         13.6         10         7.6         0         0.0         46         34.8           Staunton         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         84.1           Stuffolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.9         0         0.0         3         43.3         1         16.5         3         3.5         69         81	Salem	6	24.0	2	8.0	2	8.0	4	16.0	1	4.0	15	60.1
Smyth         11         34.3         3         9.4         13         40.6         4         12.5         1         3.1         32         99.9           Southampton         4         21.7         0         0.0         10         54.3         2         10.9         0         0.0         16         86.9           Spotsylvania         38         30.6         3         2.4         14         11.3         12         9.7         1         0.8         68         54.7           Stafford         16         12.1         2         1.5         18         13.6         10         7.6         0         0.0         46         34.8           Staunton         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         84.1           Suffolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2	Scott	9	38.9	1	4.3	5	21.6	5	21.6	2	8.6	22	95.1
Southampton         4         21.7         0         0.0         10         54.3         2         10.9         0         0.0         16         86.9           Spotsylvania         38         30.6         3         2.4         14         11.3         12         9.7         1         0.8         68         54.7           Stafford         16         12.1         2         1.5         18         13.6         10         7.6         0         0.0         46         34.8           Staunton         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         84.1           Suffolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.9         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Surry         2         28.9         0         0.0         18         40.3         6         13.4         4         8.9         56         15.2	Shenandoah	14	33.1	0	0.0	11	26.0	7	16.6	1	2.4	33	78.0
Spotsylvania         38         30.6         3         2.4         14         11.3         12         9.7         1         0.8         68         54.7           Stafford         16         12.1         2         1.5         18         13.6         10         7.6         0         0.0         46         34.8           Staurhon         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         84.1           Suffolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.9         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Susex         4         33.1         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2 <t< th=""><th>Smyth</th><th>11</th><th>34.3</th><th>3</th><th>9.4</th><th>13</th><th>40.6</th><th>4</th><th>12.5</th><th>1</th><th>3.1</th><th>32</th><th>99.9</th></t<>	Smyth	11	34.3	3	9.4	13	40.6	4	12.5	1	3.1	32	99.9
Stafford         16         12.1         2         1.5         18         13.6         10         7.6         0         0.0         46         34.8           Staunton         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         84.1           Surfolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.9         0         0.0         3         43.3         0         0.0         0         0.0         5         72.1           Sursex         4         33.1         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2           Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3	Southampton	4	21.7	0	0.0	10	54.3	2	10.9	0	0.0	16	86.9
Staunton         10         42.1         0         0.0         5         21.0         4         16.8         1         4.2         20         84.1           Suffolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.9         0         0.0         3         43.3         0         0.0         0         0.0         5         72.1           Sussex         4         33.1         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2           Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3           Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7	Spotsylvania	38	30.6	3	2.4	14	11.3	12	9.7	1	0.8	68	54.7
Suffolk         24         28.3         4         4.7         24         28.3         14         16.5         3         3.5         69         81.2           Surry         2         28.9         0         0.0         3         43.3         0         0.0         0         0.0         5         72.1           Sussex         4         33.1         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2           Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3           Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7           Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7	Stafford	16	12.1	2	1.5	18	13.6	10	7.6	0	0.0	46	34.8
Surry         2         28.9         0         0.0         3         43.3         0         0.0         0         0.0         5         72.1           Sussex         4         33.1         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2           Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3           Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7           Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7           Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         12         68.2	Staunton	10	42.1	0	0.0	5	21.0	4	16.8	1	4.2	20	84.1
Sussex         4         33.1         0         0.0         8         66.2         1         8.3         1         8.3         14         115.8           Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2           Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3           Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7           Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7           Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         18         84.5           Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2	Suffolk	24	28.3	4	4.7	24	28.3	14	16.5	3	3.5	69	81.2
Tazewell         28         62.6         0         0.0         18         40.3         6         13.4         4         8.9         56         125.2           Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3           Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7           Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7           Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         18         84.5           Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2           Williamsburg         0         0.0         0         0         3         20.8         6         41.5         1         6.9         10         69.2 <th>Surry</th> <th>2</th> <th>28.9</th> <th>0</th> <th>0.0</th> <th>3</th> <th>43.3</th> <th>0</th> <th>0.0</th> <th>0</th> <th>0.0</th> <th>5</th> <th>72.1</th>	Surry	2	28.9	0	0.0	3	43.3	0	0.0	0	0.0	5	72.1
Virginia Beach         106         23.9         16         3.6         68         15.4         64         14.5         13         2.9         267         60.3           Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7           Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7           Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         18         84.5           Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2           Williamsburg         0         0.0         0         0         3         20.8         6         41.5         1         6.9         10         69.2           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5	Sussex	4	33.1	0	0.0	8	66.2	1	8.3	1	8.3	14	115.8
Warren         20         53.0         0         0.0         9         23.8         6         15.9         0         0.0         35         92.7           Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7           Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         18         84.5           Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2           Williamsburg         0         0.0         0         0.0         3         20.8         6         41.5         1         6.9         10         69.2           Winchester         8         30.1         0         0.0         11         41.4         5         18.8         0         0.0         24         90.3           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5	Tazewell	28	62.6	0	0.0	18	40.3	6	13.4	4	8.9	56	125.2
Washington         24         43.8         3         5.5         14         25.5         10         18.2         2         3.6         53         96.7           Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         18         84.5           Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2           Williamsburg         0         0.0         0         0.0         3         20.8         6         41.5         1         6.9         10         69.2           Winchester         8         30.1         0         0.0         11         41.4         5         18.8         0         0.0         24         90.3           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5           Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2	Virginia Beach	106	23.9	16	3.6	68	15.4	64	14.5	13	2.9	267	60.3
Waynesboro         4         18.8         2         9.4         8         37.5         4         18.8         0         0.0         18         84.5           Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2           Williamsburg         0         0.0         0         0.0         3         20.8         6         41.5         1         6.9         10         69.2           Winchester         8         30.1         0         0.0         11         41.4         5         18.8         0         0.0         24         90.3           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5           Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2           York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0	Warren	20	53.0	0	0.0	9	23.8	6	15.9	0	0.0	35	92.7
Westmoreland         5         28.4         0         0.0         4         22.7         3         17.1         0         0.0         12         68.2           Williamsburg         0         0.0         0         0.0         3         20.8         6         41.5         1         6.9         10         69.2           Winchester         8         30.1         0         0.0         11         41.4         5         18.8         0         0.0         24         90.3           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5           Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2           York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0           Total for State         8         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227	Washington	24	43.8	3	5.5	14	25.5	10	18.2	2	3.6	53	96.7
Williamsburg         0         0.0         0         0.0         3         20.8         6         41.5         1         6.9         10         69.2           Winchester         8         30.1         0         0.0         11         41.4         5         18.8         0         0.0         24         90.3           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5           Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2           York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0           Total for State           Residents         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         ND	Waynesboro	4	18.8	2	9.4	8	37.5	4	18.8	0	0.0	18	84.5
Winchester         8         30.1         0         0.0         11         41.4         5         18.8         0         0.0         24         90.3           Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5           Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2           York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0           Total for State         Residents         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         <	Westmoreland	5	28.4	0	0.0	4	22.7	3	17.1	0	0.0	12	68.2
Wise         23         55.3         1         2.4         9         21.7         9         21.7         1         2.4         43         103.5           Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2           York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0           Total for State         Residents         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND	Williamsburg	0	0.0	0	0.0	3	20.8	6	41.5	1	6.9	10	69.2
Wythe         9         30.8         1         3.4         6         20.5         7         24.0         1         3.4         24         82.2           York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0           Total for State           Residents         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND	Winchester	8	30.1	0	0.0	11	41.4	5	18.8	0	0.0	24	90.3
York         20         30.2         2         3.0         9         13.6         11         16.6         1         1.5         43         65.0           Total for State Residents         Residents         129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND	Wise	23	55.3	1	2.4	9	21.7	9	21.7	1	2.4	43	103.5
Total for State Residents         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND	Wythe	9	30.8	1	3.4	6	20.5	7	24.0	1	3.4	24	82.2
Residents         2129         26.3         332         4.1         1597         19.7         1018         12.6         151         1.9         5227         64.6           Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND	York	20	30.2	2	3.0	9	13.6	11	16.6	1	1.5	43	65.0
Out of Country         11         ND*         0         ND         4         ND         0         ND         0         ND         15         ND           Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND													
Out of State         201         ND         12         ND         153         ND         48         ND         6         ND         420         ND	Residents	2129	26.3	332	4.1	1597	19.7	1018	12.6	151	1.9	5227	64.6
	Out of Country	11	ND*	0	ND	4	ND	0	ND	0	ND	15	ND
Unknown         0         ND         1         ND         2         ND         1         ND         4         ND         8         ND	Out of State	201	ND	12	ND	153	ND	48	ND	6	ND	420	ND
	Unknown	0	ND	1	ND	2	ND	1	ND	4	ND	8	ND

County/City of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Total for Non-												
Residents	212	ND	13	ND	159	ND	49	ND	10	ND	443	ND
TOTAL	2341	ND	345	ND	1756	ND	1067	ND	161	ND	5670	ND

Figure 11. Total Cases by City/County of Residence, 2011



Virginia Department of Health

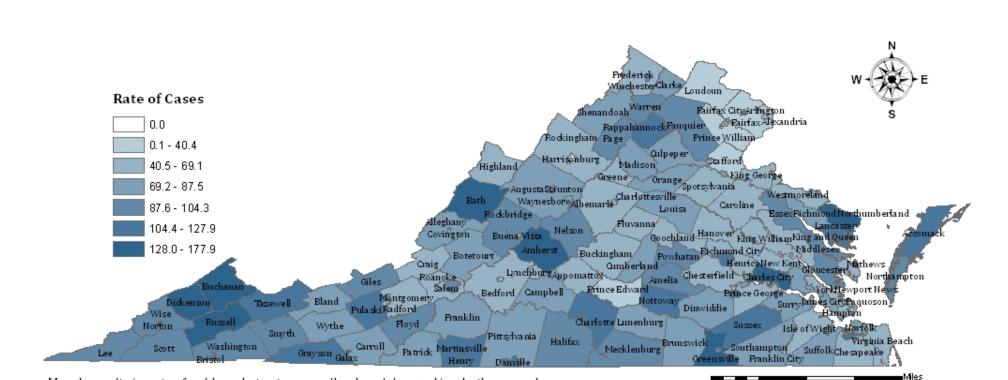


Figure 12. Rate of Total Cases by City/County of Residence, 2011

Virginia Department of Health

Rate is per 100,000 population.

Map shows city/county of residence but not necessarily where injury and/or death occurred.

A total of 443 cases were from non-Virginia residents or where residency was unknown.

15 30

90

120

Table 9. Total Cases by Manner by City/County of Injury/Acute Illness, 2011

Manner of Death						
County/City of	Accident	Homicide	Natural	Suicide	Undetermined	Total
Injury/Acute Illness	Total	Total	Total	Total	Total	Total
Accomack	16	6	9	6	1	38
Albemarle	34	2	12	11	0	59
Alexandria	22	1	42	14	2	81
Alleghany	4	1	2	5	0	12
Amelia	8	0	4	4	0	16
Amherst	17	1	26	5	1	50
Appomattox	5	1	0	2	0	8
Arlington	24	0	31	16	1	72
Augusta	27	2	16	14	2	61
Bath	3	0	2	1	0	6
Bedford City	2	0	2	0	1	5
Bedford	24	1	12	13	0	50
Bland	7	0	0	1	0	8
Botetourt	19	0	8	6	0	33
Bristol	5	1	10	3	0	19
Brunswick	8	1	5	1	0	15
Buchanan	18	6	16	1	0	41
Buckingham	5	1	2	2	0	10
Buena Vista	1	0	3	0	0	4
Campbell	14	1	11	10	1	37
Caroline	14	1	8	2	1	26
Carroll	13	0	9	7	1	30
Charles City	6	0	3	3	0	12
Charlotte	9	1	3	3	1	17
Charlottesville	9	1	7	1	2	20
Chesapeake	58	12	55	24	0	149
Chesterfield	74	10	56	40	0	180
Clarke	4	0	2	5	1	12
Colonial Heights	3	2	4	1	0	10
Covington	1	1	0	2	0	4
Craig	2	0	1	2	0	5
Culpeper	15	3	12	7	0	37
Cumberland	3	0	2	3	0	8
Danville	19	6	26	6	1	58
Dickenson	13	2	6	5	0	26
Dinwiddie	8	1	12	3	0	24
Emporia	3	1	2	0	0	6
EIIIPUIIA	,	4		U	J	J

	Manner of Death					
County/City of	Accident	Homicide	Natural	Suicide	Undetermined	
Injury/Acute Illness	Total	Total	Total	Total	Total	Total
Essex	8	1	0	2	0	11
Fairfax City	7	0	4	2	0	13
Fairfax	195	12	134	90	10	441
Falls Church	6	0	0	0	0	6
Fauquier	33	1	14	14	1	63
Floyd	10	1	2	4	1	18
Fluvanna	5	0	11	3	0	19
Franklin City	0	0	3	0	0	3
Franklin	33	2	11	10	4	60
Frederick	29	1	18	14	4	66
Fredericksburg	12	1	9	5	0	27
Galax	3	0	2	3	0	8
Giles	3	1	4	4	1	13
Gloucester	14	2	7	13	2	38
Goochland	8	0	6	0	0	14
Grayson	5	0	5	8	0	18
Greene	2	3	3	3	0	11
Greensville	2	2	26	4	0	34
Halifax	16	2	10	4	0	32
Hampton	38	8	28	7	7	88
Hanover	30	2	6	15	0	53
Harrisonburg	8	2	5	2	0	17
Henrico	58	13	34	42	2	149
Henry	31	6	14	10	1	62
Highland	1	0	0	1	0	2
Hopewell	6	3	9	2	0	20
Isle of Wight	7	0	7	4	0	18
James City	19	2	25	6	0	52
King and Queen	1	0	0	1	0	2
King George	8	0	3	3	0	14
King William	6	1	1	2	0	10
Lancaster	8	1	2	2	0	13
Lee	15	4	6	5	1	31
Lexington	1	0	1	0	0	2
Loudoun	36	2	30	35	4	107
Louisa	11	0	9	7	2	29
Lunenburg	1	0	6	2	0	9
Lynchburg	21	4	16	10	2	53
Madison	4	3	2	1	0	10
Manassas	6	4	2	5	1	18

	_		ivianner of D	eatii		
County/City of	Accident	Homicide	Natural	Suicide	Undetermined	
Injury/Acute Illness	Total	Total	Total	Total	Total	Total
Martinsville	7	2	9	4	1	23
Mathews	2	0	3	2	0	7
Mecklenburg	13	1	19	4	0	37
Middlesex	1	1	4	3	0	9
Montgomery	28	1	17	14	2	62
Nelson	9	1	5	3	0	18
New Kent	11	0	0	6	0	17
Newport News	45	18	53	23	9	148
Norfolk	73	29	74	28	4	208
Northampton	3	0	9	5	0	17
Northumberland	9	0	5	3	1	18
Norton	0	0	3	1	0	4
Nottoway	7	0	8	3	1	19
Orange	16	0	4	5	1	26
Page	14	0	5	8	1	28
Patrick	5	0	2	4	0	11
Petersburg	3	7	20	3	1	34
Pittsylvania	27	5	16	9	0	57
Poquoson	2	0	0	0	0	2
Portsmouth	28	12	43	8	10	101
Powhatan	7	3	23	6	0	39
Prince Edward	4	1	4	3	0	12
Prince George	11	1	7	4	0	23
Prince William	82	6	46	28	7	169
Pulaski	19	0	13	9	0	41
Radford	3	1	1	1	0	6
Rappahannock	4	0	2	2	0	8
Richmond City	88	42	86	33	5	254
Richmond	4	0	3	1	0	8
Roanoke City	39	9	24	19	7	98
Roanoke	26	1	19	14	2	62
Rockbridge	10	1	12	6	0	29
Rockingham	16	1	5	10	1	33
Russell	20	3	11	6	2	42
Salem	4	0	1	6	1	12
Scott	8	1	6	6	0	21
Shenandoah	15	0	11	9	1	36
Smyth	10	3	13	6	1	33
Southampton	6	0	19	2	0	27
Spotsylvania	36	3	16	11	1	67
Denartment of Health	-	Office of the Ch	ief Medical Exam			Decem

			ivialiliei oi Di			
County/City of	Accident	Homicide	Natural	Suicide	Undetermined	
Injury/Acute Illness	Total	Total	Total	Total	Total	Total
Stafford	23	2	20	9	0	54
Staunton	8	1	7	4	0	20
Suffolk	26	3	19	14	4	66
Surry	2	0	3	0	0	5
Sussex	5	0	6	1	1	13
Tazewell	30	0	15	6	4	55
Virginia Beach	112	17	68	65	13	275
Warren	23	0	7	7	0	37
Washington	28	3	17	10	2	60
Waynesboro	3	0	6	3	0	12
Westmoreland	10	0	7	5	0	22
Williamsburg	9	1	8	6	1	25
Winchester	7	0	12	5	1	25
Wise	23	1	9	9	2	44
Wythe	9	1	6	7	1	24
York	17	2	15	15	1	50
Total for In-State	2274	334	1742	1058	148	5556
Out of State	54	5	13	9	4	85
Unknown	13	6	1	0	9	29
Total for Non-Residents	67	11	14	9	13	114
TOTAL	2341	345	1756	1067	161	5670

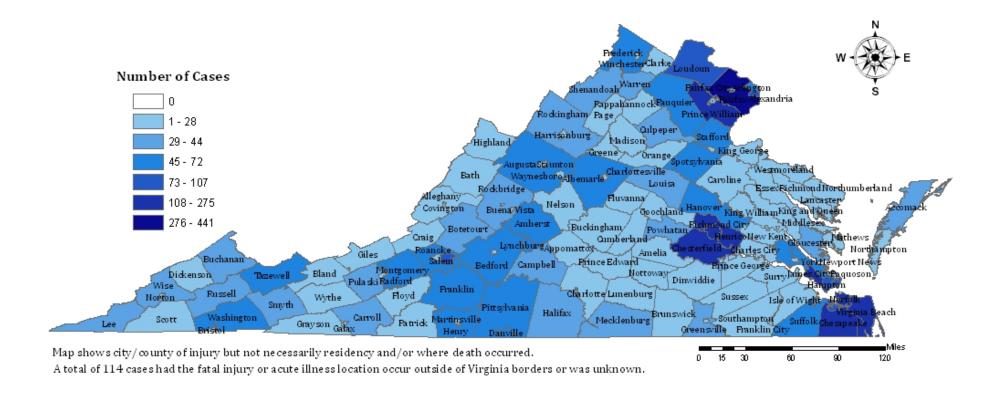


Figure 13. Total Cases by City/County of Injury/Acute Illness, 2011

Table 10. Total Cases by Manner by City/County of Death, 2011

				0		
County/City of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Accomack	15	4	8	6		34
Albemarle	19	0	9	11	0	39
Alexandria					3	
	19	2	45	14 4	0	81
Alleghany			1			11
Amelia	6	0	3	3	0	12
Amherst	13	1	15	5 1	0	34
Appomattox	3	1	0		0	5
Arlington	23	0	32	15	1	71
Augusta	27	3	14	16	2	62
Bath	2	0	2	0	0	4
Bedford City	1	0	2	0	1	4
Bedford	19	0	9	12	0	40
Bland	5	0	0	1	0	6
Botetourt	11	0	7	6	0	24
Bristol	3	1	10	2	0	16
Brunswick	8	0	5	1	0	14
Buchanan	18	6	12	1	0	37
Buckingham	4	1	1	2	0	8
Buena Vista	1	0	3	0	0	4
Campbell	4	1	10	9	0	24
Caroline	10	0	6	1	1	18
Carroll	12	0	8	8	1	29
Charles City	5	0	2	2	0	9
Charlotte	5	1	3	3	1	13
Charlottesville	56	3	18	8	3	88
Chesapeake	51	10	52	22	0	135
Chesterfield	52	11	54	34	2	153
Clarke	1	0	1	5	0	7
Colonial Heights	1	2	3	0	0	6
Covington	1	0	0	2	0	3
Craig	1	0	1	2	0	4
Culpeper	12	3	11	6	0	32
Cumberland	2	0	2	1	0	5
Danville	23	7	32	6	1	69
Dickenson	13	2	7	5	0	27
Dinwiddie	9	0	6	3	0	18
Emporia	2	1	11	1	0	15
Essex	10	1	1	2	1	15

	Accident	Homicide	Natural	Suicide	Undetermined	
County/City of Death	Total	Total	Total	Total	Total	Total
Fairfax City	2	0	3	2	0	7
Fairfax	268	16	137	100	11	532
Falls Church	4	0	0	0	0	4
Fauquier	26	1	14	12	0	53
Floyd	5	1	1	4	1	12
Fluvanna	3	0	6	3	0	12
Franklin City	0	0	5	0	0	5
Franklin	28	2	11	8	1	50
Frederick	15	1	15	11	3	45
Fredericksburg	43	3	17	10	0	73
Galax	4	0	4	3	0	11
Giles	4	0	4	4	1	13
Gloucester	9	2	7	12	2	32
Goochland	4	0	2	0	0	6
Grayson	3	0	4	7	0	14
Greene	1	3	3	2	0	9
Greensville	2	2	13	3	0	20
Halifax	17	2	10	4	0	33
Hampton	29	3	28	6	6	72
Hanover	28	2	6	15	0	51
Harrisonburg	5	2	5	1	1	14
Henrico	48	9	35	35	1	128
Henry	20	4	9	8	1	42
Highland	1	0	0	1	0	2
Hopewell	9	1	8	3	0	21
Isle of Wight	4	1	4	2	0	11
James City	12	1	13	4	0	30
King and Queen	1	0	0	1	0	2
King George	6	0	2	3	0	11
King William	5	0	0	2	0	7
Lancaster	9	1	3	2	0	15
Lee	15	4	7	5	1	32
Lexington	1	0	2	1	0	4
Loudoun	25	2	28	34	3	92
Louisa	7	0	9	6	2	24
Lunenburg	1	0	5	2	0	8
Lynchburg	40	5	32	13	4	94
Madison	4	3	2	1	0	10
Manassas	11	3	8	7	2	31
Martinsville	13	3	14	5	1	36

	Accident	Homicide	Natural	Suicide	Undetermined	
County/City of Death	Total	Total	Total	Total	Total	Total
Mathews	1	0	3	2	0	6
Mecklenburg	11	1	18	4	0	34
Middlesex	0	1	3	3	0	7
Montgomery	26	1	18	13	2	60
Nelson	8	1	4	3	0	16
New Kent	6	0	0	5	0	11
Newport News	62	21	56	31	9	179
Norfolk	137	40	88	40	9	314
Northampton	3	1	10	4	0	18
Northumberland	4	0	5	2	0	11
Norton	4	0	3	1	0	8
Nottoway	5	0	4	3	1	13
Orange	10	0	4	5	1	20
Page	13	0	5	8	1	27
Patrick	5	0	2	4	0	11
Petersburg	5	8	37	3	2	55
Pittsylvania	19	4	9	9	0	41
Poquoson	1	0	0	0	0	1
Portsmouth	19	13	44	7	9	92
Powhatan	4	3	17	6	0	30
Prince Edward	6	1	3	3	0	13
Prince George	10	0	4	3	0	17
Prince William	50	7	40	24	9	130
Pulaski	14	0	13	8	0	35
Radford	2	0	1	0	0	3
Rappahannock	2	0	1	2	0	5
Richmond City	166	50	112	54	7	389
Richmond	2	0	1	0	0	3
Roanoke City	116	15	37	32	12	212
Roanoke	9	0	11	10	0	30
Rockbridge	9	1	11	4	0	25
Rockingham	9	1	5	9	1	25
Russell	20	2	10	6	2	40
Salem	6	0	3	7	0	16
Scott	7	1	4	5	1	18
Shenandoah	13	0	10	8	1	32
Smyth	10	2	12	6	1	31
Southampton	6	0	15	2	0	23
Spotsylvania	25	2	16	9	1	53
Stafford	11	2	16	8	0	37

County/City of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Staunton	6	0	7	3	0	16
Suffolk	21	3	28	12	4	68
Surry	0	0	1	0	0	1
Sussex	3	0	1	1	0	5
Tazewell	26	0	19	6	4	55
Virginia Beach	96	14	58	62	13	243
Warren	18	0	6	6	0	30
Washington	28	2	16	10	1	57
Waynesboro	2	0	5	2	0	9
Westmoreland	7	0	6	3	0	16
Williamsburg	0	0	5	6	0	11
Winchester	39	2	23	11	4	79
Wise	19	0	9	10	2	40
Wythe	8	1	5	6	1	21
York	23	3	28	13	1	68
Total for In-State	2335	341	1754	1066	158	5654
Out of State	6	4	2	1	1	14
Unknown	0	0	0	0	2	2
<b>Total for Non-Residents</b>	6	4	2	1	3	16
TOTAL	2341	345	1756	1067	161	5670

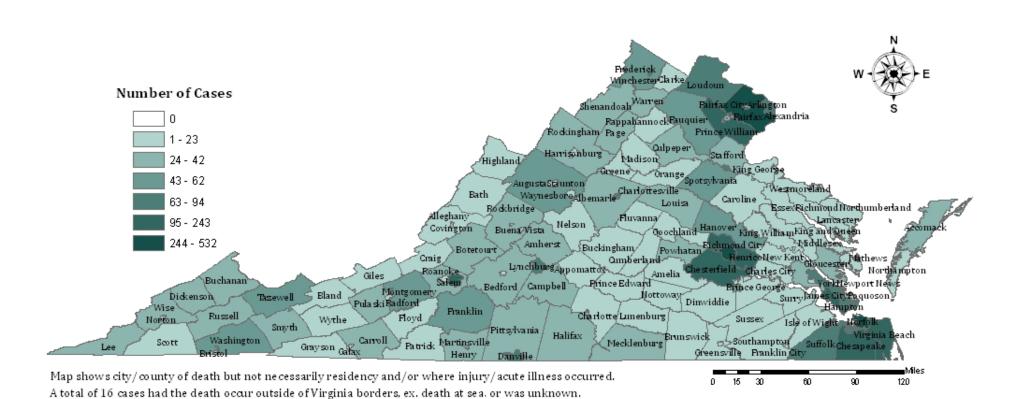


Figure 14. Total Cases by City/County of Death, 2011

Table 11. Total Cases by Cause of Death, 2011

Natural Deaths	<b>Total Cases</b>	Autopsied
Pulmonary Diseases/Disorders	188	117
Asthma	13	10
COPD	28	6
Emboli	45	38
Pneumonia	68	45
Pulmonary Malignancy	23	10
Other Pulmonary Disease/Disorder	11	8
Central Nervous System Diseases/Disorders	77	49
Seizure Disorder	21	19
Vascular Disease	31	16
Degenerative Disease	12	5
Meningitis (Bacterial or Viral)	4	4
CNS Malignancy	1	0
Other CNS Disease/Disorder	8	5
Cardiovascular Diseases/Disorders	1082	431
Atherosclerosis	542	136
Hypertension	178	67
Atherosclerosis & Hypertension	167	126
Congenital Defect	6	6
Vascular Dissection/Ruptures	10	8
Valvular	11	10
Acute Coronary Insufficiency	76	2
Cardiac Dysrhythmia of Undetermined Etiology	28	23
Cardiomyopathy NOS	31	26
Arrhythmogenic Right Ventricular Dysplasia	5	5
Other Cardiac Disease/Disorder	28	22
Gastrointestinal Diseases/Disorders	103	47
GI Hemorrhage	20	5
Cirrhosis	17	8
Hepatitis	13	4
GI Malignancy	22	12
Other GI Disease/Disorder	31	18
Genitourinal Diseases/Disorders	20	3
Renal Disease	12	2
Genitourinal Malignancy	7	1
Other GU Disease/Disorder	1	0
Perinatal and Pediatric Diseases/Disorders	32	30
Maternal Complications	4	3
Fetal Complications	5	5
Sudden Infant Death Syndrome (SIDS)	16	16
Other Perinatal or Pediatric Disorder	7	6

Systemic Disea	ses/Disorders	238	121
Systemic Discu	Blood Disorders	5	5
	Diabetes	48	22
	AIDS/HIV	4	1
	Sepsis	23	16
	Other Infectious Disease	9	8
	Metastatic Malignancy Unknown Primary	2	1
	Chronic Alcoholism	123	51
	Chronic Drug Abuse	5	3
	Other Systemic Disease/Disorder	19	14
Other Natural I	Diseases/Disorders	16	7
	Other Malignancy	6	2
	Other Natural Disease/Disorder	10	5
Natural Subtot		1756	805
Unnatural Dea		Total Cases	Autopsied
Asphyxia		473	198
	Choking (Aspiration: Food or Foreign Object)	33	8
	Drowning	108	72
	Hanging	203	42
	Mechanical	28	15
	Positional	12	8
	Strangulation/Neck Compression	15	12
	Suffocation/Smothering	18	17
	Oxygen Replacement/Displacement	2	0
	Helium	18	4
	Plastic Bag	11	6
	CO Poisoning (MV Exhaust)	14	6
	CO Poisoning (Other)	9	6
	Other Asphyxia	2	2
Electrocution		8	5
	High Voltage	7	5
	Low Voltage	1	0
Exposure		35	21
-	Hyperthermia	11	4
	 Hypothermia	24	17
Fire Injuries		79	51
-	Thermal Burns	11	3
	Inhalation of Combustion Products	39	23

29 **1** 

1

Thermal Burns & Inhalation of Combustions

Products

**Lethal Injection** 

**Judicial Execution** 

Gunshot Wound	1	863	858
	GSW to Head/Neck	621	617
	GSW to Chest	100	99
	GSW to Abdomen	17	17
	GSW to Torso	70	70
	GSW to Extremities	7	7
	GSW Multiple	48	48
Blunt Force Inju	ries	1459	274
	BFT to Head/Neck	643	112
	BFT to Chest	93	24
	BFT to Abdomen	19	11
	BFT to Torso	100	27
	BFT to Extremities	156	11
	BFT to Multiple	448	89
Penetrating Inju	ıries	55	48
	Incised	12	7
	Stab	39	38
	Other Penetrating Injuries	4	3
Substance Abus	Substance Abuse		703
	Ethanol Poisoning	15	13
	Prescription Drug Poisoning	505	446
	Illegal (Street) Drug Poisoning	143	120
	Mixed Category Drug Poisoning	113	96
	Inhalant Poisoning	6	6
	OTC Poisoning	20	14
	Ethylene Glycol Poisoning	4	3
	Not Otherwise Specified Poisoning	5	3
	Other Poisons (Heavy Metals, etc.)	7	2
Other Unnatura	l Deaths	28	20
	Other Unnatural	28	20
<b>Unnatural Subto</b>	otal	3820	2180
	Undetermined Deaths	<b>Total Cases</b>	Autopsied
Undetermined A	After Autopsy and/or Investigation	94	92
	Sudden Unexpected Infant Death (SUID)	58	58
	Skeletal/Mummified Remains	8	8
	Other Undetermined	28	26
Undetermined S	Subtotal	94	92
TOTAL		5670	3077

# **SECTION 3: MANNER OF DEATH**

## **NATURAL DEATH (N=1756)**

Natural deaths enter the medical examiner system as deaths that are sudden, unexpected or suspicious, which upon examination and investigation are established as natural. These deaths may also fall under the OCME's jurisdiction when individuals do not have a primary care physician to certify their deaths.

- Natural deaths accounted for 31% of all deaths investigated by the OCME in 2011
- For the sixth year in a row the number of natural deaths accepted by OCME has decreased

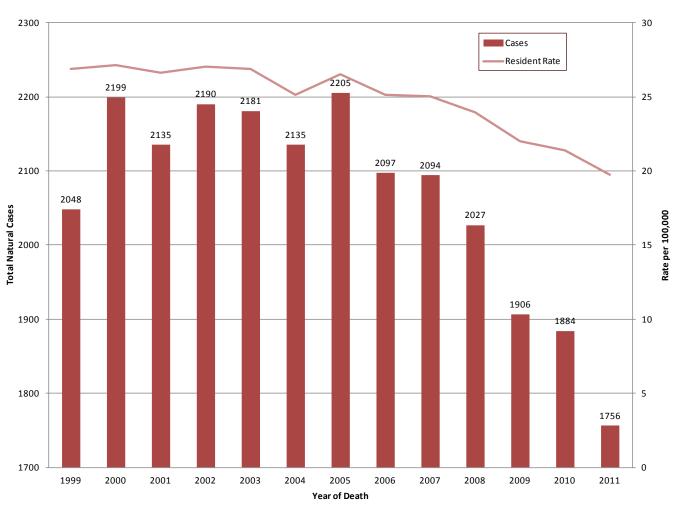


Figure 15. Natural Deaths & Rate by Year of Death, 2011

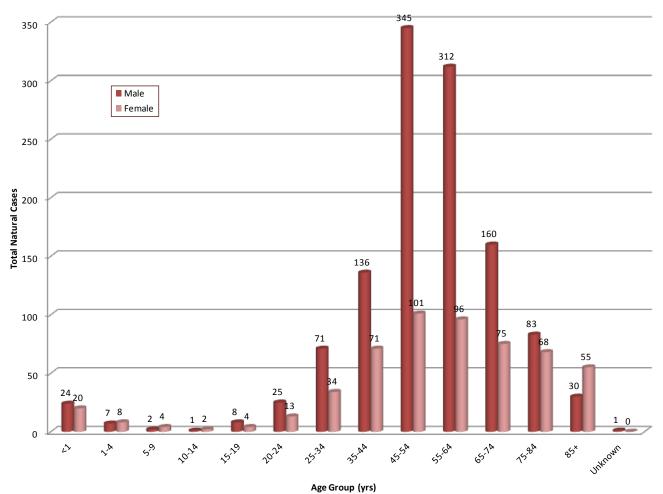


Figure 16. Natural Deaths by Age Group by Gender, 2011

## **ACCIDENTAL DEATHS (N=2341)**

Accidents account for 41.3 percent of the deaths investigated by the OCME in 2011: the greatest proportion of deaths by any manner.

- The total number of accidental deaths sharply increased from 2010
- Motor vehicle deaths still remained the most common cause of accidental deaths with 36.9 percent of all accidents followed by drug use with 27.5 percent
- Seniors, 85 and older, had the highest rate of accidental falls (135.9 per 100,000); a decrease from
   2010
- Seventeen percent of all accidents had ethanol present at 0.08% W/V or greater, the level of legal intoxication in Virginia

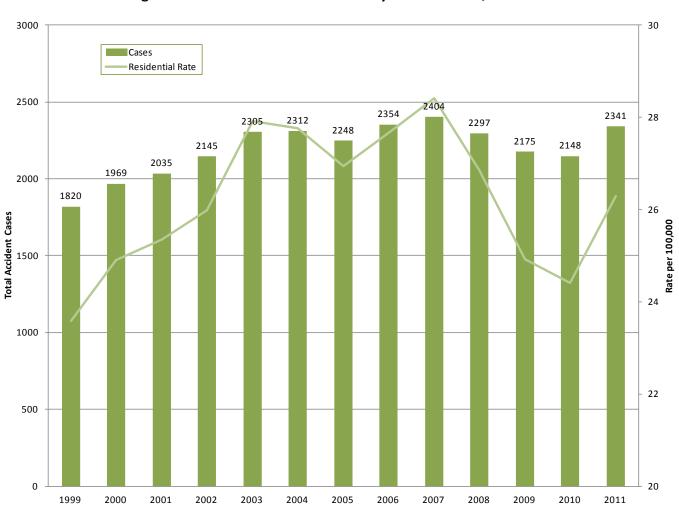


Figure 17. Accidental Deaths & Rate by Year of Death, 1999-2011

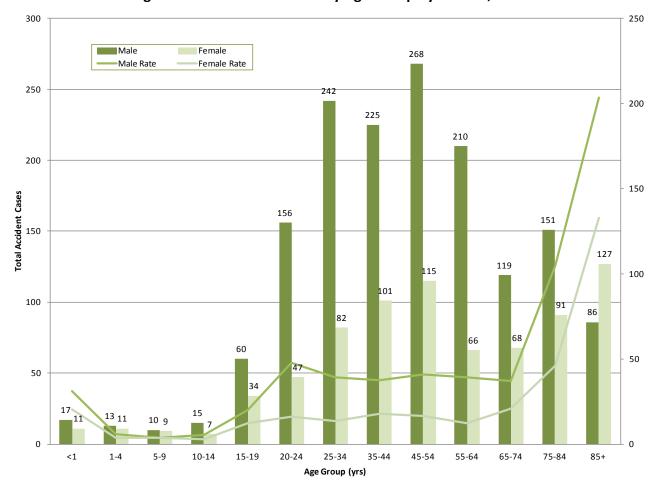


Figure 18. Accidental Deaths by Age Group by Gender, 2011



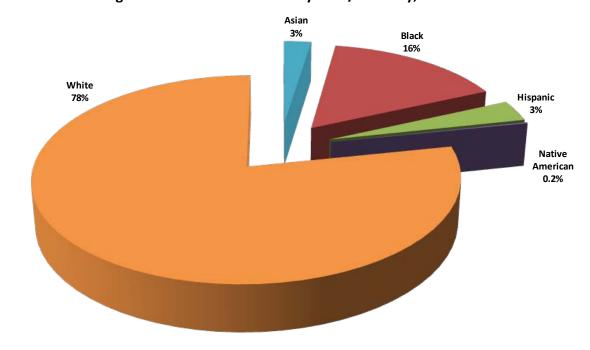


Table 12. Accidental Deaths by Method of Death, 2011

Method of Death	<b>Total Cases</b>	Autopsied
Animal/Insect		
Bitten, stung, or kicked by animal/insect	7	3
Asphyxia Asphyxia		
Choked on food/foreign object	32	8
Drowned	87	56
Hanging	5	1
Mechanical/Positional	23	16
Other	3	2
Strangled	3	2
Suffocation/Smothering	12	12
Drug Use		
Ingested ethanol or other alcohol	13	11
Ingested and/or injected illicit, prescription, and/or other type of dr	ug 631	550
Electrical		
Contacted electrical current	8	5
Exposure		
Exposed to cold	24	17
Exposed to heat	11	4
Fall/Jump		·
Fall/jump from any height	487	50
Fire		
Inhalation of Combustion Products	8	3
Thermal Burns	37	21
Thermal Burns & Inhalation of Combustion Products	20	16
Motor Vehicle		
Aircraft	8	7
All terrain vehicle	14	2
Bicycle	13	2
Boat	2	0
Bus	5	0
Car	403	54
Construction equipment	2	2
Farm equipment	12	1
Golf cart	1	1
Lawnmower	3	1
Mo-ped	8	2
Motorcycle	104	9
Multiple vehicles	104	1
Pickup truck	101	14
Skateboard	101	0
Sport utility vehicle	115	24
Sport utility verlicle	113	<b>4</b> 4

Method of Death	<b>Total Cases</b>	Autopsied
Tractor trailer	16	12
Train	9	4
Truck other	12	6
Van	25	3
Unknown	9	8
Poisoned		
Inhaled toxic agent (ex. Carbon monoxide)	4	4
Traumatic Injury		
Accidental discharge of firearm	7	7
Handgun	(2)	(2)
Shotgun	(5)	(5)
Explosion	2	1
Falling object	32	11
Sharp force injury	3	1
Unknown/Other		
Accidental - Unknown/Other	18	8
TOTAL	2341	962

Table 13. Top 5 Accidental Methods of Death by Age Group with Corresponding Rates, 2011

Method of Death

	Fire/Smoke				
Age	Inhalation	Drowning		Drug Use	Motor
Group	(Rate)	(Rate)	Fall (Rate)	(Rate)	Vehicle (Rate)
<1	0 (0.0)	2 (2.0)	0 (0.0)	1 (1.0)	6 (4.9)
1-4	0 (0.0)	6 (1.2)	1 (0.2)	0 (0.0)	7 (1.2)
5-9	1 (0.2)	5 (1.0)	1 (0.2)	0 (0.0)	11 (2.1)
10-14	1 (0.2)	2 (0.4)	0 (0.0)	1 (0.2)	9 (1.7)
15-19	0 (0.0)	3 (0.4)	3 (0.6)	13 (2.4)	73 12.3)
20-24	4 (0.7)	11 (1.7)	3 (0.3)	65 (10.4)	113 (18.1)
25-34	5 (0.4)	13 (1.1)	2 (0.1)	160 (13.2)	127 10.0)
35-44	4 (0.4)	11 (0.6)	11 (0.9)	169 (14.7)	113 (9.1)
45-54	11 (0.8)	13 1.0)	30 (2.1)	165 (13.2)	137 (9.3)
55-64	13 (1.2)	10 (0.9)	49 (4.5)	61 (5.6)	107 (9.2)
65-74	12 (2.1)	4 (0.7)	64 (9.9)	7 (1.0)	77 (10.6)
75-84	13 (4.2)	7 (1.9)	138 (40.7)	1 (0.3)	63 (17.1)
85+	1 (0.8)	0 (0.0)	185 (135.9)	1 (0.8)	21 (14.8)
Total	65 (0.8)	87 (0.9)	487 (5.5)	644 (7.5)	864 (9.3)

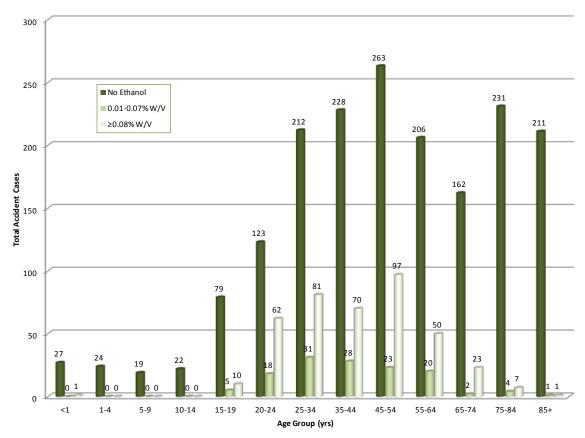
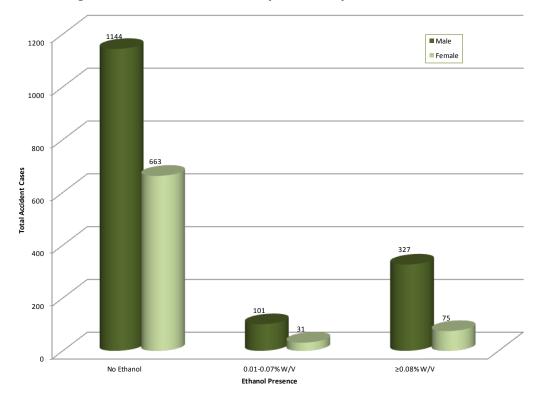


Figure 20. Accidental Deaths by Age Group by Ethanol Level, 2011





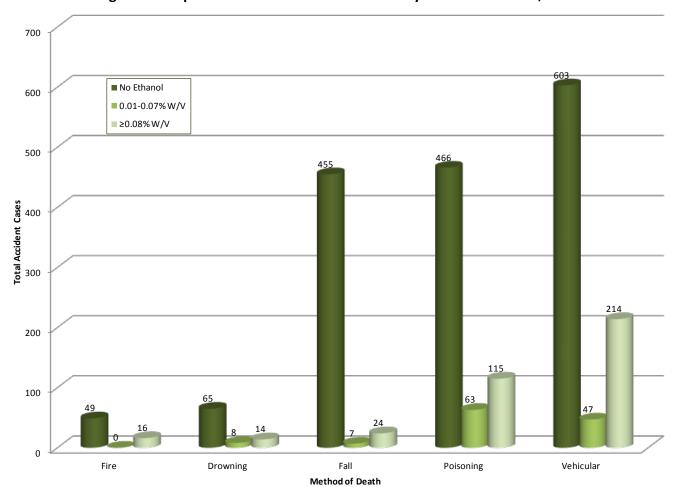


Figure 22. Top 5 Accidental Methods of Death by Alcohol Presence, 2011

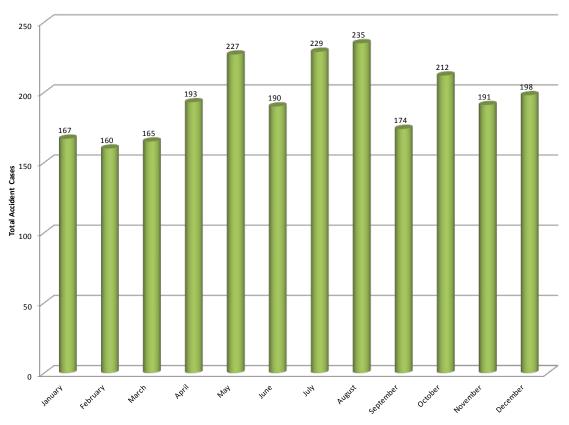
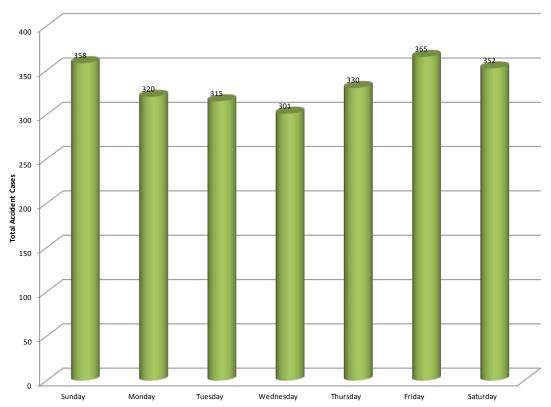


Figure 23. Accidental Deaths by Month of Death, 2011





Office of the Chief Medical Examiner

Table 14. Accidental Deaths by City/County of Injury/Acute Illness, 2006-2011

	Year of Death						
County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Accomack	22	20	11	19	18	16	106
Albemarle	17	20	33	25	28	34	157
Alexandria	21	21	21	22	14	22	121
Alleghany	10	14	8	5	6	4	47
Amelia	4	7	11	9	4	8	43
Amherst	11	8	16	9	5	17	66
Appomattox	2	6	7	4	3	5	27
Arlington	18	20	30	34	27	24	153
Augusta	26	35	38	33	31	27	190
Bath	2	3	1	4	3	3	16
Bedford City	3	5	5	4	4	2	23
Bedford	22	27	16	30	31	24	150
Bland	0	6	2	7	4	7	26
Botetourt	12	12	13	11	11	19	78
Bristol	6	10	3	3	7	5	34
Brunswick	16	7	6	8	13	8	58
Buchanan	21	18	19	11	23	18	110
Buckingham	3	9	6	3	5	5	31
Buena Vista	0	0	1	2	0	1	4
Campbell	32	16	31	12	17	14	122
Caroline	9	14	8	9	13	14	67
Carroll	17	15	19	11	7	13	82
Charles City	4	8	7	7	7	6	39
Charlotte	4	6	6	5	6	9	36
Charlottesville	21	28	11	16	12	9	97
Chesapeake	55	60	47	53	43	58	316
Chesterfield	56	71	92	68	70	74	431
Clarke	5	6	5	8	10	4	38
Colonial Heights	6	3	4	2	2	3	20
Covington	4	0	2	2	0	1	9
Craig	7	2	2	4	2	2	19
Culpeper	16	24	12	12	14	15	93
Cumberland	1	2	4	3	2	3	15
Danville	16	13	22	20	20	19	110
Dickenson	11	16	13	5	11	13	69
Dinwiddie	12	14	20	12	10	8	76
Emporia	2	8	2	1	3	3	19

County/City of Injury         2006         2007         2008         2009         2010         2011         Total           Essex         4         7         4         7         5         8         35           Fairfax City         3         4         5         11         5         7         35           Fairfax         221         157         144         149         152         195         1018           Falls Church         2         1         0         1         1         6         11           Fauquier         21         32         26         33         32         33         177           Floyd         13         10         5         8         5         10         51           Fluvanna         9         7         14         7         6         5         48           Franklin City         2         2         1         1         2         0         8           Frederick         24         25         26         31         27         29         162           Fredericksburg         22         14         15         6         11         12         80	
Fairfax City       3       4       5       11       5       7       35         Fairfax       221       157       144       149       152       195       1018         Falls Church       2       1       0       1       1       6       11         Fauquier       21       32       26       33       32       33       177         Floyd       13       10       5       8       5       10       51         Fluvanna       9       7       14       7       6       5       48         Franklin City       2       2       1       1       2       0       8         Franklin       27       22       23       26       21       33       152         Frederick       24       25       26       31       27       29       162	County/City of Injury
Fairfax         221         157         144         149         152         195         1018           Falls Church         2         1         0         1         1         6         11           Fauquier         21         32         26         33         32         33         177           Floyd         13         10         5         8         5         10         51           Fluvanna         9         7         14         7         6         5         48           Franklin City         2         2         1         1         2         0         8           Franklin         27         22         23         26         21         33         152           Frederick         24         25         26         31         27         29         162	Essex
Falls Church       2       1       0       1       1       6       11         Fauquier       21       32       26       33       32       33       177         Floyd       13       10       5       8       5       10       51         Fluvanna       9       7       14       7       6       5       48         Franklin City       2       2       1       1       2       0       8         Franklin       27       22       23       26       21       33       152         Frederick       24       25       26       31       27       29       162	Fairfax City
Fauquier       21       32       26       33       32       33       177         Floyd       13       10       5       8       5       10       51         Fluvanna       9       7       14       7       6       5       48         Franklin City       2       2       1       1       2       0       8         Franklin       27       22       23       26       21       33       152         Frederick       24       25       26       31       27       29       162	Fairfax
Floyd       13       10       5       8       5       10       51         Fluvanna       9       7       14       7       6       5       48         Franklin City       2       2       1       1       2       0       8         Franklin       27       22       23       26       21       33       152         Frederick       24       25       26       31       27       29       162	Falls Church
Fluvanna       9       7       14       7       6       5       48         Franklin City       2       2       1       1       2       0       8         Franklin       27       22       23       26       21       33       152         Frederick       24       25       26       31       27       29       162	Fauquier
Franklin City         2         2         1         1         2         0         8           Franklin         27         22         23         26         21         33         152           Frederick         24         25         26         31         27         29         162	Floyd
Franklin         27         22         23         26         21         33         152           Frederick         24         25         26         31         27         29         162	Fluvanna
Frederick 24 25 26 31 27 29 <b>162</b>	Franklin City
	Franklin
Fredericksburg 22 14 15 6 11 12 <b>80</b>	Frederick
	Fredericksburg
Galax 0 3 0 0 3 <b>6</b>	Galax
Giles 9 5 9 9 10 3 <b>45</b>	Giles
Gloucester 21 10 16 10 20 14 <b>91</b>	Gloucester
Goochland 6 15 10 14 8 8 <b>61</b>	Goochland
Grayson 13 5 2 6 5 5 <b>36</b>	Grayson
Greene 4 14 5 4 7 2 <b>36</b>	Greene
Greensville 10 3 2 5 6 2 <b>28</b>	Greensville
Halifax 15 22 27 14 20 16 <b>114</b>	Halifax
Hampton 31 28 28 25 35 38 <b>185</b>	Hampton
Hanover 21 27 26 13 18 30 <b>135</b>	Hanover
Harrisonburg 11 1 3 5 4 8 <b>32</b>	Harrisonburg
Henrico 89 66 76 73 70 58 <b>432</b>	Henrico
Henry 34 15 34 22 26 31 <b>162</b>	Henry
Highland 1 2 2 2 2 1 <b>10</b>	Highland
Hopewell 5 8 6 7 7 6 <b>39</b>	Hopewell
Isle of Wight 16 16 15 12 13 7 <b>79</b>	Isle of Wight
James City 17 8 24 16 13 19 <b>97</b>	James City
King and Queen 5 7 5 8 2 1 <b>28</b>	King and Queen
King George 5 7 8 10 2 8 <b>40</b>	King George
King William 3 7 5 9 2 6 <b>32</b>	King William
Lancaster 9 9 6 2 2 8 <b>36</b>	Lancaster
Lee 11 16 10 13 8 15 <b>73</b>	Lee
Lexington 3 2 1 2 4 1 13	Lexington
Loudoun 23 37 27 29 32 36 <b>184</b>	Loudoun
Louisa 16 24 17 21 14 11 <b>103</b>	Louisa
Lunenburg 6 11 9 5 2 1 <b>34</b>	Lunenburg
Lynchburg 13 24 24 16 25 21 <b>123</b>	Lynchburg
Madison 3 9 6 3 5 4 <b>30</b>	Madison

	Year of Death						
County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Manassas	8	8	6	12	4	6	44
Martinsville	8	3	8	6	7	7	39
Mathews	8	4	1	4	2	2	21
Mecklenburg	18	17	11	16	10	13	85
Middlesex	3	7	6	6	6	1	29
Montgomery	15	24	27	24	30	28	148
Nelson	6	12	6	11	6	9	50
New Kent	15	6	7	8	12	11	59
Newport News	52	36	36	53	40	45	262
Norfolk	59	79	59	67	49	73	386
Northampton	6	8	10	9	5	3	41
Northumberland	2	3	8	4	6	9	32
Norton	3	0	1	1	2	0	7
Nottoway	6	8	3	14	6	7	44
Orange	6	14	13	10	14	16	73
Page	4	10	4	7	8	14	47
Patrick	5	7	11	8	8	5	44
Petersburg	16	22	14	14	13	3	82
Pittsylvania	28	30	37	29	25	27	176
Poquoson	5	1	1	3	1	2	13
Portsmouth	29	20	18	29	23	28	147
Powhatan	14	6	7	5	3	7	42
Prince Edward	9	16	5	14	11	4	59
Prince George	9	12	12	10	12	11	66
Prince William	69	57	65	64	75	82	412
Pulaski	16	23	19	15	19	19	111
Radford	2	5	9	3	8	3	30
Rappahannock	0	4	2	3	6	4	19
Richmond City	127	132	85	69	66	88	567
Richmond	2	2	6	2	4	4	20
Roanoke City	37	30	32	41	36	39	215
Roanoke	27	22	23	19	17	26	134
Rockbridge	12	14	10	13	7	10	66
Rockingham	30	21	19	16	18	16	120
Russell	19	19	15	11	16	20	100
Salem	13	7	8	8	8	4	48
Scott	6	8	10	9	5	8	46
Shenandoah	14	5	24	13	12	15	83
Smyth	13	10	11	7	12	10	63

	Teal of Death						_
County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Southampton	10	15	10	10	11	6	62
Spotsylvania	29	39	30	29	43	36	206
Stafford	18	43	25	24	21	23	154
Staunton	7	6	8	7	5	8	41
Suffolk	16	36	26	17	30	26	151
Surry	2	7	4	1	6	2	22
Sussex	13	15	17	11	12	5	73
Tazewell	36	11	16	19	25	30	137
Virginia Beach	101	105	102	110	77	112	607
Warren	6	11	17	9	25	23	91
Washington	18	20	22	14	21	28	123
Waynesboro	7	2	7	6	7	3	32
Westmoreland	13	10	11	6	11	10	61
Williamsburg	6	5	3	6	2	9	31
Winchester	15	2	4	10	7	7	45
Wise	31	28	15	22	22	23	141
Wythe	11	14	24	12	13	9	83
York	14	17	14	7	15	17	84
TOTAL IN STATE	2316	2334	2224	2105	2080	2274	13333
Out of State	29	52	46	52	54	54	287
Unknown	8	18	27	18	14	13	98
TOTAL	2353	2404	2297	2175	2148	2341	13718

## SUICIDE DEATHS (N=1067)

The rate of suicides (12.6/100,000) is the highest it has been in the past 13 years. In 2011, as in previous years, suicides were most frequently in males (77.6%), white (87%), and those aged 45-54 years old (23.4%).

- Whites committed suicide 5.2 times that of Hispanics, 4 times that of Asians, and 3.3 times that of blacks
- Males were 3.4 times more likely to commit suicide than females
- Handguns were used in 45.2 percent of suicides, followed by 18.4 percent by hangings, then 12.9
   percent by drug use
- Ethanol was present in 29.3% of all suicides

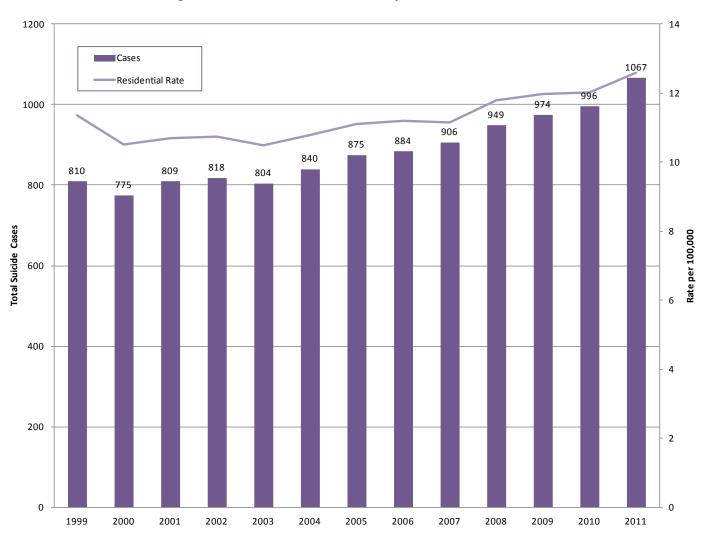


Figure 25. Suicide Deaths & Rate by Year of Death, 2011

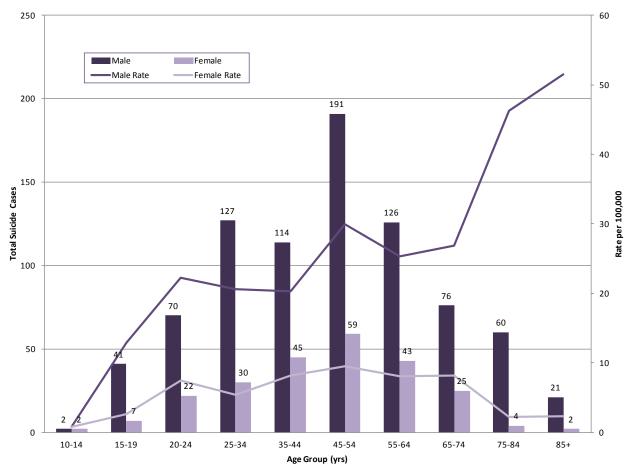
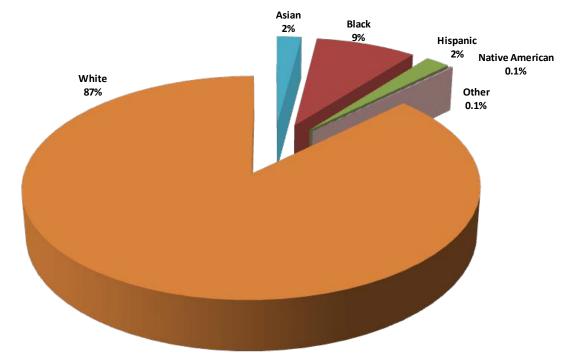


Figure 26. Suicide Deaths & Rates by Age Group by Gender, 2011





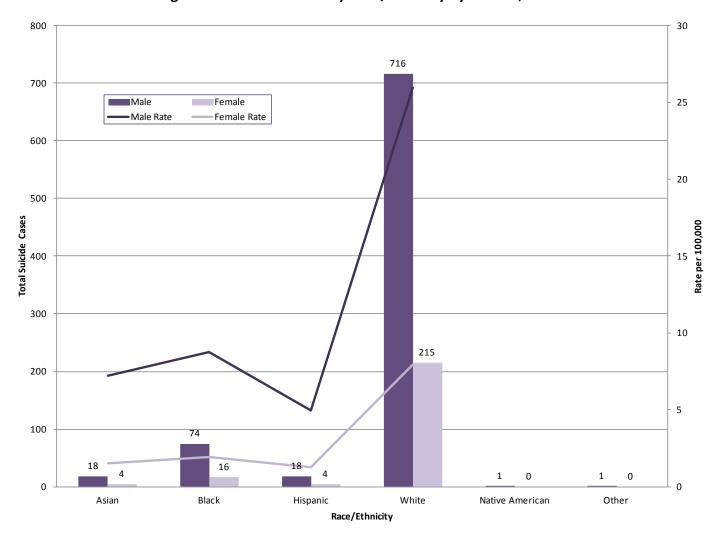


Figure 28. Suicide Deaths by Race/Ethnicity by Gender, 2011

Table 15. Suicide Deaths by Method of Death, 2011

Method of Death	<b>Total Cases</b>	Autopsied
Asphyxia		
Drowned	12	10
Hanging	196	39
Helium	18	4
Plastic bag	10	5
Oxygen replacement/displacement	2	0
Other asphyxia	5	1
Drug Use		
Ingested and/or injected illicit, prescription, and/or other type of drug	138	118
Jump		
Jumped from height	24	8
Poisoned		
Carbon monoxide poisoning	17	7
Ingested ethylene glycol	3	2
Ingested other poison (ex. heavy metals, etc.)	7	2
Traumatic Injury		
Cut/Stabbed self	14	7
Shot self with firearm	609	605
Handgun	(482)	(479)
Rifle	(53)	(53)
Shotgun	(74)	(73)
Other		
Other	1	1
Vehicular		
Car	4	3
Pickup Truck	1	1
Sport Utility Vehicle	1	0
Train	5	4
TOTAL	1067	817

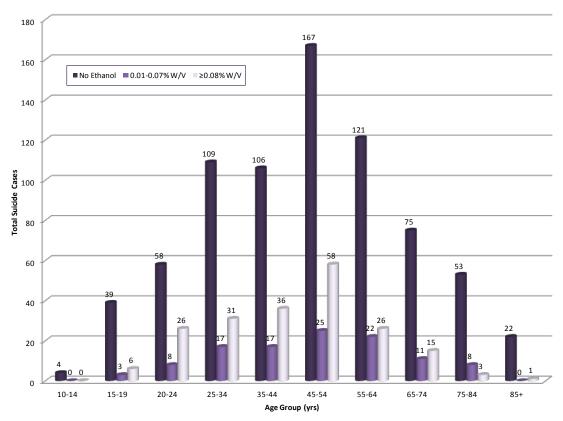


Figure 29. Suicide Deaths by Age Group by Ethanol Level, 2011



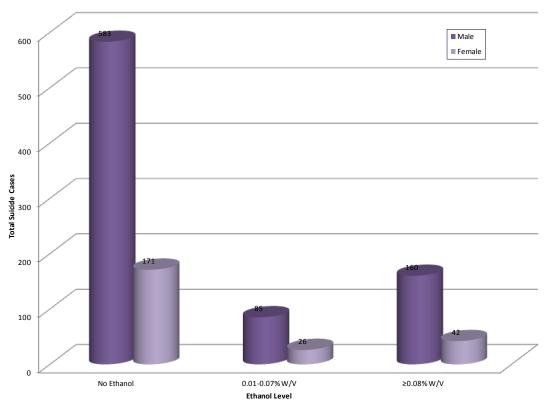


Table 16. Suicide Deaths by Method of Death by Ethanol Level, 2011

Method of [	Death	Total Cases	No Ethanol	Ethanol 0.01- 0.07% W/V	Ethanol ≥0.08% W/V
Asphyxia					
	Drowned	12	9	1	2
	Hanging	196	142	18	36
	Helium	18	10	6	2
	Plastic bag	10	7	2	1
	Oxygen replacement/displacement	2	1	1	0
	Other asphyxia	5	4	0	1
Drug Use	. ,				
•	Ingested and/or injected illicit, prescription, and/or other type of drug	138	100	14	24
Jump					
•	Jumped from height	24	19	4	1
Poisoned					
	Carbon monoxide poisoning	17	9	5	3
	Ingested ethylene glycol	3	3	0	0
	Ingested other poison (ex. heavy metals, etc.)	7	5	1	1
Traumatic II					
	Cut/Stabbed self	14	8	2	4
	Shot self with firearm	609	430	56	123
	Handgun	(482)	(333)	(47)	(102)
	Rifle	(53)	(39)	(5)	(9)
	Shotgun	(74)	(58)	(4)	(12)
Other		, ,	, ,	. ,	, ,
	Other	1	1	0	0
Vehicular					
	Car	4	1	1	2
	Pickup Truck	1	1	0	0
	Sport Utility Vehicle	1	1	0	0
	Train	5	3	0	2
TOTAL		1067	754	111	202

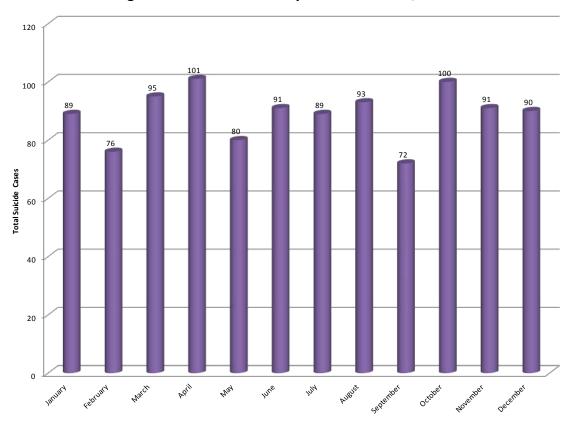
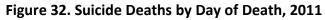


Figure 31. Suicide Deaths by Month of Death, 2011



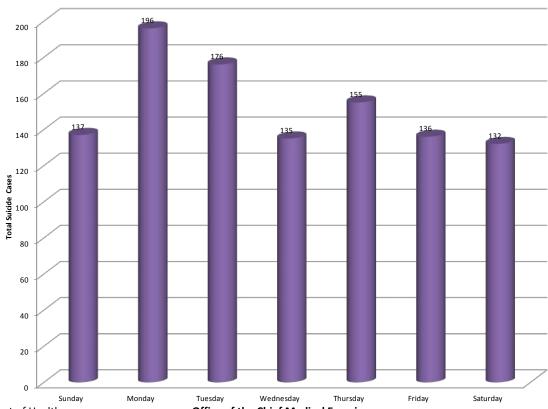


Table 17. Suicide Deaths & Rates by City/County of Residence, 2011

City/County of Residence	Total	Rate
Accomack	5	15.0
Albemarle	12	11.9
Alexandria	16	11.1
Alleghany	6	37.1
Amelia	2	15.6
Amherst	4	12.4
Appomattox	2	13.3
Arlington	14	6.5
Augusta	12	16.3
Bath	2	42.9
Bedford City	0	0.0
Bedford	11	15.9
Bland	1	14.7
Botetourt	5	15.2
Bristol	3	16.9
Brunswick	1	5.8
Buchanan	1	4.2
Buckingham	2	11.6
Buena Vista	0	0.0
Campbell	10	18.2
Caroline	4	13.9
Carroll	6	20.0
Charles City	4	55.2
Charlotte	3	24.0
Charlottesville	0	0.0
Chesapeake	27	12.0
Chesterfield	39	12.2
Clarke	5	35.1
Colonial Heights	1	5.7
Covington	1	16.8
Craig	2	39.2
Culpeper	7	14.7
Cumberland	3	30.1
Danville	5	11.7
Dickenson	6	38.1
Dinwiddie	3	10.7
Emporia	0	0.0
Essex	2	17.8
Fairfax City	2	8.9
Fairfax	88	8.0

City/County of Residence	Total	Rate
Falls Church	0	0.0
Fauquier	12	18.2
Floyd	1	6.5
Fluvanna	4	15.3
Franklin City	0	0.0
Franklin	9	16.0
Frederick	13	16.3
Fredericksburg	4	15.6
Galax	5	71.6
Giles	5	29.2
Gloucester	13	35.2
Goochland	2	9.1
Grayson	7	45.7
Greene	5	26.8
Greensville	3	24.8
Halifax	4	11.1
Hampton	8	5.9
Hanover	13	13.0
Harrisonburg	1	2.0
Henrico	37	11.9
Henry	12	22.3
Highland	1	44.1
Hopewell	2	8.9
Isle of Wight	5	14.1
James City	9	13.2
King and Queen	1	14.3
King George	3	12.4
King William	2	12.5
Lancaster	2	17.7
Lee	5	19.9
Lexington	0	0.0
Loudoun	37	11.4
Louisa	7	21.0
Lunenburg	2	15.5
Lynchburg	9	11.8
Madison	1	7.6
Manassas	3	7.6
Martinsville	3	22.1
Mathews	2	22.3
Mecklenburg	4	12.3

City/County of Residence	Total	Rate
Middlesex	2	18.4
Montgomery	13	13.8
Nelson	2	13.2
New Kent	2	10.6
Newport News	21	11.7
Norfolk	25	10.3
Northampton	3	24.2
Northumberland	2	16.1
Norton	2	49.3
Nottoway	5	31.6
Orange	4	11.8
Page	10	41.7
Patrick	4	21.8
Petersburg	2	6.2
Pittsylvania	9	14.3
Poquoson	1	8.3
Portsmouth	6	6.3
Powhatan	5	17.8
Prince Edward	4	17.1
Prince George	4	10.9
Prince William	26	6.0
Pulaski	8	23.1
Radford	1	6.1
Rappahannock	2	26.9
Richmond City	32	15.6
Richmond	1	10.8
Roanoke City	19	19.6
Roanoke	14	15.1
Rockbridge	5	22.3

City/County of Residence	Total	Rate
Rockingham	12	15.7
Russell	5	17.4
Salem	4	16.0
Scott	5	21.6
Shenandoah	7	16.6
Smyth	4	12.5
Southampton	2	10.9
Spotsylvania	12	9.7
Stafford	10	7.6
Staunton	4	16.8
Suffolk	14	16.5
Surry	0	0.0
Sussex	1	8.3
Tazewell	6	13.4
Virginia Beach	64	14.5
Warren	6	15.9
Washington	10	18.2
Waynesboro	4	18.8
Westmoreland	3	17.1
Williamsburg	6	41.5
Winchester	5	18.8
Wise	9	21.7
Wythe	7	24.0
York	11	16.6
TOTAL FOR STATE RESIDENTS	1018	12.6
Out of State	48	ND†
Unknown	1	ND
TOTAL	1067	ND

<sup>†</sup> ND- No Denominator

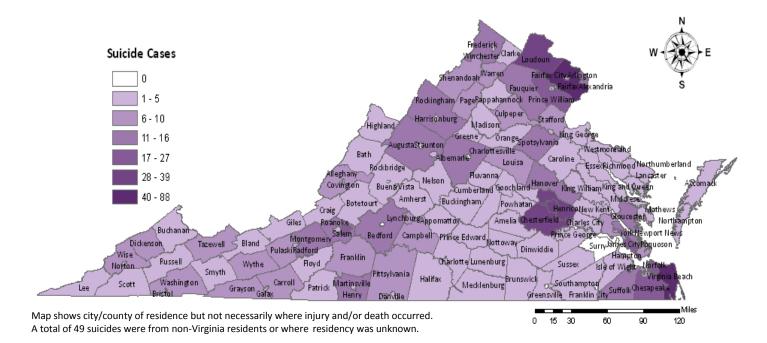
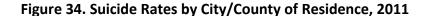


Figure 33. Suicide Deaths by City/County of Residence, 2011



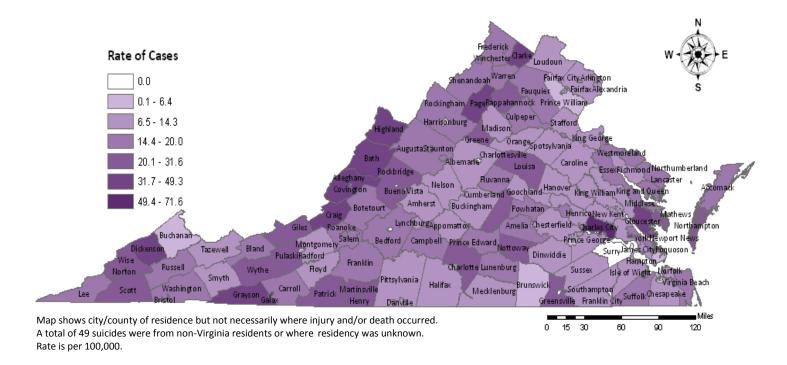


Table 18. Suicide Deaths by City/County of Injury by Year of Death, 2006-2011

Accomack				Year c	of Death			,
Albemarle         2         6         8         13         6         11         46           Alexandria         12         11         13         14         14         14         78           Alleghany         3         2         0         4         6         5         20           Amelia         2         1         1         3         1         4         12           Amherst         4         6         6         7         7         5         35           Appomattox         2         0         0         3         3         2         10           Arlington         14         12         28         10         21         16         101           Augusta         12         11         13         16         11         14         77           Bath         1         0         1         0         0         1         3           Bedford City         1         1         1         2         2         0         7           Bedford City         1         1         1         2         2         0         7           Bedford         7 <th>County/City of Injury</th> <th>2006</th> <th>2007</th> <th>2008</th> <th>2009</th> <th>2010</th> <th>2011</th> <th>Total</th>	County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Alexandria       12       11       13       14       14       14       78         Alleghany       3       2       0       4       6       5       20         Amelia       2       1       1       3       1       4       12         Amherst       4       6       6       7       7       5       35         Appomattox       2       0       0       3       3       2       10         Arlington       14       12       28       10       21       16       101         Augusta       12       11       13       16       11       14       77         Bath       1       0       1       0       0       1       3       8       100       1       10       1       17       7       7       7       16       100       1       10       1       10       1       13       6       6       12       1       13       14       14       13       63       13       1       1       8       8       6       2       2       3       1       1       8       8       1       1	Accomack	4	2	1	4	6	6	23
Alleghany       3       2       0       4       6       5       20         Amelia       2       1       1       3       1       4       12         Amherst       4       6       6       7       7       5       35         Appomattox       2       0       0       3       3       2       10         Arlington       14       12       28       10       21       16       101         Augusta       12       11       13       16       11       14       77         Bedford City       1       1       1       2       2       0       7         Bedford City       1       1       1       1       13       1       18         Boteco	Albemarle	2	6	8	13	6	11	46
Amelia       2       1       1       3       1       4       12         Amherst       4       6       6       7       7       5       35         Appomattox       2       0       0       3       3       2       10         Arlington       14       12       28       10       21       16       101         Augusta       12       11       13       16       11       14       77         Bath       1       0       1       0       0       1       3       3       6       3       3       1       14       17       77       10       1       3       6       2       23       3       17       10       1       36       3       17       10       1       36       3       1       10       3       3       1       1       <	Alexandria	12	11	13	14	14	14	78
Amherst       4       6       6       7       7       5       35         Appomattox       2       0       0       3       3       2       10         Arlington       14       12       28       10       21       16       101         Augusta       12       11       13       16       11       14       77         Bath       1       0       1       0       0       1       3         Bedford City       1       1       1       2       2       0       7         Bedford City       1       1       1       2       2       0       7         Bedford City       1       1       1       2       2       0       7         Bedford City       1       1       1       2       2       0       7         Bedford City       1       1       1       2       2       0       7         Bedford City       1       1       1       13       63       3       1       1       8       6       2       2       2       2       3       3       1       1       1       1	Alleghany	3	2	0	4	6	5	20
Appomattox         2         0         0         3         3         2         10           Arlington         14         12         28         10         21         16         101           Augusta         12         11         13         16         11         14         77           Bath         1         0         1         0         0         1         3           Bedford City         1         1         1         2         2         0         7           Bedford City         1         1         1         2         2         0         7           Bedford City         1         1         1         2         2         0         7           Bedford City         1         1         1         2         2         0         7           Bedford City         1         1         1         2         3         3         1         1         8         6         3         6         3         1         1         1         3         6         3         1         1         1         8         6         2         2         1         1         1	Amelia	2	1	1	3	1	4	12
Arlington       14       12       28       10       21       16       101         Augusta       12       11       13       16       11       14       77         Bath       1       0       1       0       0       1       3         Bedford City       1       1       1       2       2       0       7         Bedford       7       6       9       14       14       13       63         Bedford       7       6       9       14       14       13       63         Bland       2       1       0       3       1       1       8         Botecourt       3       4       3       5       2       6       23         Bristol       4       4       1       2       3       3       17         Brunswick       2       2       1       1       3       1       1       8         Buckingham       3       3       5       1       3       2       17         Buena Vista       0       0       1       1       1       0       3         Carrolline       6	Amherst	4	6	6	7	7	5	35
Augusta       12       11       13       16       11       14       77         Bath       1       0       1       0       0       1       3         Bedford City       1       1       1       2       2       0       7         Bedford       7       6       9       14       14       13       63         Bland       2       1       0       3       1       1       8         Botetourt       3       4       3       5       2       6       23         Bristol       4       4       1       2       3       3       17         Brunswick       2       2       1       1       3       1       1       8         Buchanan       5       6       7       7       10       1       36       36       3       3       2       17         Buena Vista       0       0       1       1       1       0       3       3       5       1       3       2       17         Buena Vista       0       0       1       1       1       0       3       3       5	Appomattox	2	0	0	3	3	2	10
Bath         1         0         1         0         0         1         3           Bedford City         1         1         1         2         2         0         7           Bedford         7         6         9         14         14         13         63           Bland         2         1         0         3         1         1         8           Botetourt         3         4         3         5         2         6         23           Bristol         4         4         1         2         3         3         17           Brunswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Buena Vista         0         0         1         1         1         0         3         3         5         2         17           Campbell         6         3         7         6         6         10         38	Arlington	14	12	28	10	21	16	101
Bedford City         1         1         1         2         2         0         7           Bedford         7         6         9         14         14         13         63           Bland         2         1         0         3         1         1         8           Botecourt         3         4         3         5         2         6         23           Bristol         4         4         1         2         3         3         17           Brusswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Campbell         6 <t< td=""><td>Augusta</td><td>12</td><td>11</td><td>13</td><td>16</td><td>11</td><td>14</td><td>77</td></t<>	Augusta	12	11	13	16	11	14	77
Bedford         7         6         9         14         14         13         63           Bland         2         1         0         3         1         1         8           Botetourt         3         4         3         5         2         6         23           Bristol         4         4         1         2         3         3         17           Brunswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Buena Vista         0         0         1         1         1         0         3           Campbell         6         3         7         6         6         10         38           Caroline         3         6         3         3         5         2         22           Carroll         6         8         6         10         9         7         46           Charles City         0	Bath	1	0	1	0	0	1	3
Bland         2         1         0         3         1         1         8           Botetourt         3         4         3         5         2         6         23           Bristol         4         4         1         2         3         3         17           Brunswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Buena Vista         0         0         1         1         1         0         3           Campbell         6         3         7         6         6         10         38           Caroline         3         6         3         3         5         2         22           Carroll         6         8         6         10         9         7         46           Charles City         0         0         2         2         2         3         9           Charles City         0 <td< td=""><td>Bedford City</td><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>0</td><td>7</td></td<>	Bedford City	1	1	1	2	2	0	7
Botetourt         3         4         3         5         2         6         23           Bristol         4         4         1         2         3         3         17           Brunswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Buena Vista         0         0         1         1         1         0         3           Campbell         6         3         7         6         6         10         38           Caroline         3         6         3         3         5         2         22           Carroll         6         8         6         10         9         7         46           Charles City         0         0         2         2         2         3         9           Charles City         0         0         2         2         2         3         14           Charlottesville         11	Bedford	7	6	9	14	14	13	63
Bristol         4         4         1         2         3         3         17           Brunswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Buena Vista         0         0         1         1         1         0         3           Campbell         6         3         7         6         6         10         38           Caroline         3         6         3         3         5         2         22           Carroll         6         8         6         10         9         7         46           Charles City         0         0         2         2         2         3         9           Charles City         0         0         2         2         2         3         9           Charles City         0         0         2         2         2         3         1         3         1         3         1	Bland	2	1	0	3	1	1	8
Brunswick         2         2         1         1         3         1         10           Buchanan         5         6         7         7         10         1         36           Buckingham         3         3         5         1         3         2         17           Buena Vista         0         0         1         1         1         0         3           Campbell         6         3         7         6         6         10         38           Carroline         3         6         3         3         5         2         22           Carroll         6         8         6         10         9         7         46           Charles City         0         0         2         2         2         3         9           Charles City         0         0         2         2         2         3         9           Charles City         0         0         2         2         2         3         14           Charles City         1         7         5         4         3         1         31           Charles City         1<	Botetourt	3	4	3	5	2	6	23
Buchanan       5       6       7       7       10       1       36         Buckingham       3       3       5       1       3       2       17         Buena Vista       0       0       1       1       1       0       3         Campbell       6       3       7       6       6       10       38         Caroline       3       6       3       3       5       2       22         Carroll       6       8       6       10       9       7       46         Charles City       0       0       2       2       2       3       9         Charles City       0       0       2       2       2       3       9         Charles City       0       0       2       2       2       3       9         Charles City       0       0       2       2       2       3       9         Charles City       1       7       5       4       3       1       31       3       1       31       1       31       31       31       31       31       31       31       32       32 <td>Bristol</td> <td>4</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>3</td> <td>17</td>	Bristol	4	4	1	2	3	3	17
Buckingham       3       3       5       1       3       2       17         Buena Vista       0       0       1       1       1       0       3         Campbell       6       3       7       6       6       10       38         Caroline       3       6       3       3       5       2       22         Carroll       6       8       6       10       9       7       46         Charles City       0       0       2       2       2       3       9         Charles City       0       0       2       2       2       3       9         Charles City       0       0       2       2       2       3       9         Charles City       0       0       2       2       2       3       9         Charles City       1       7       5       4       3       1       31       1         Charles City       1       7       5       4       3       1       31       31       31       31       31       31       31       31       31       32       34       40       1	Brunswick	2	2	1	1	3	1	10
Buena Vista       0       0       1       1       1       0       3         Campbell       6       3       7       6       6       10       38         Caroline       3       6       3       3       5       2       22         Carroll       6       8       6       10       9       7       46         Charles City       0       0       2       2       2       3       9         Charlotte       3       2       1       3       2       3       14         Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       <	Buchanan	5	6	7	7	10	1	36
Campbell       6       3       7       6       6       10       38         Caroline       3       6       3       3       5       2       22         Carroll       6       8       6       10       9       7       46         Charles City       0       0       2       2       2       3       9         Charlotte       3       2       1       3       2       3       14         Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper	Buckingham	3	3	5	1	3	2	17
Caroline       3       6       3       3       5       2       22         Carroll       6       8       6       10       9       7       46         Charles City       0       0       2       2       2       3       9         Charlotte       3       2       1       3       2       3       14         Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       <	Buena Vista	0	0	1	1	1	0	3
Carroll       6       8       6       10       9       7       46         Charles City       0       0       2       2       2       3       9         Charlotte       3       2       1       3       2       3       14         Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Campbell	6	3	7	6	6	10	38
Charles City       0       0       2       2       2       3       9         Charlotte       3       2       1       3       2       3       14         Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Caroline	3	6	3	3	5	2	22
Charlotte       3       2       1       3       2       3       14         Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Carroll	6	8	6	10	9	7	46
Charlottesville       11       7       5       4       3       1       31         Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Charles City	0	0	2	2	2	3	9
Chesapeake       19       20       18       25       26       24       132         Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Charlotte	3	2	1	3	2	3	14
Chesterfield       29       25       32       32       34       40       192         Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Charlottesville	11	7	5	4	3	1	31
Clarke       2       1       3       3       3       5       17         Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Chesapeake	19	20	18	25	26	24	132
Colonial Heights       1       2       3       1       2       1       10         Covington       2       2       1       0       0       2       7         Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Chesterfield	29	25	32	32	34	40	192
Covington         2         2         1         0         0         2         7           Craig         0         1         2         4         0         2         9           Culpeper         6         10         2         11         5         7         41           Cumberland         0         1         2         2         0         3         8	Clarke	2	1	3	3	3	5	17
Craig       0       1       2       4       0       2       9         Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Colonial Heights	1	2	3	1	2	1	10
Culpeper       6       10       2       11       5       7       41         Cumberland       0       1       2       2       0       3       8	Covington	2	2	1	0	0	2	7
Cumberland         0         1         2         2         0         3         8	Craig	0	1	2	4	0	2	9
	Culpeper	6	10	2	11	5	7	41
Danville 7 3 4 8 7 6 35	Cumberland	0	1	2	2	0	3	8
7 3 4 0 7 0 33	Danville	7	3	4	8	7	6	35
Dickenson 2 5 5 8 7 5 32	Dickenson	2	5	5	8	7	5	32
Dinwiddie 3 3 1 1 7 3 18	Dinwiddie	3	3	1	1	7	3	18
Emporia 3 0 2 1 1 0 7	Emporia	3	0	2	1	1	0	7
Essex 0 1 3 2 3 2 11	Essex	0	1	3	2	3	2	11

County/City of Injury         2006         2007         2008         2009         2010         2011         Total           Fairfax City         2         2         1         6         4         2         17           Fairfax         85         86         88         104         87         90         540           Falls Church         0         1         3         0         1         0         5           Fauquier         7         4         8         9         14         14         56           Floyd         2         2         1         3         4         4         16           Floyd         2         2         1         3         4         4         16           Floyd         2         2         1         3         4         4         16           Floyd         2         2         3         4         2         2         3         16           Freaklin         5         8         6         7         3         10         39           Frederick         9         7         7         8         8         14         5				Year o	of Death			•
Fairfax         85         86         88         104         87         90         540           Falls Church         0         1         3         0         1         0         5           Fauquier         7         4         8         9         14         14         56           Floyd         2         2         1         3         4         4         4         16           Fluvanna         2         3         4         2         2         3         16           Franklin City         0         0         0         0         1         0         1           Frederick         9         7         7         8         8         14         53           Fredericksburg         6         4         5         2         4         5         26         6alax         1         1         2         1         3         3         11         3         3         11         1         2         4         5         2         4         5         2         4         5         2         4         5         3         4         20         0         15         6	County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Falls Church         0         1         3         0         1         0         5           Fauquier         7         4         8         9         14         14         56           Floyd         2         2         1         3         4         4         16           Floyd         2         2         1         3         4         4         16           Fluvanna         2         3         4         2         2         3         16           Franklin         5         8         6         7         3         10         39           Frederick         9         7         7         8         8         14         53           Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11         13         3         11         14         20         3         3         11         13         4         4         20         15         3         4         20         15         3         4         20         15         4	Fairfax City	2	2	1	6	4	2	17
Fauquier         7         4         8         9         14         14         56           Floyd         2         2         1         3         4         4         16           Fluvanna         2         3         4         2         2         3         16           Franklin City         0         0         0         0         1         0         1           Frederick         9         7         7         8         8         14         53           Frederick Sburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         2         8         22           Greene         4         2<	Fairfax	85	86	88	104	87	90	540
Floyd         2         2         1         3         4         4         16           Fluvanna         2         3         4         2         2         3         16           Franklin City         0         0         0         0         1         0         1           Franklin         5         8         6         7         3         10         39           Frederick         9         7         7         8         8         14         53           Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         4         2         0         15           Greansville <th< td=""><td>Falls Church</td><td>0</td><td>1</td><td>3</td><td>0</td><td>1</td><td>0</td><td>5</td></th<>	Falls Church	0	1	3	0	1	0	5
Fluvanna         2         3         4         2         2         3         16           Franklin City         0         0         0         0         1         0         1           Franklin         5         8         6         7         3         10         39           Frederick         9         7         7         8         8         14         52           Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Greanson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greensville         2         <	Fauquier	7	4	8	9	14	14	56
Franklin City         0         0         0         1         0         1           Franklin         5         8         6         7         3         10         39           Frederick         9         7         7         8         8         14         53           Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Giles         2         3         3         5         3         4         20           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Greene         4         2         2         3         4         3         18           Greene         4         2         2	Floyd	2	2	1	3	4	4	16
Franklin         5         8         6         7         3         10         39           Frederick         9         7         7         8         8         14         53           Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Giles         2         3         3         5         3         4         20         15           Giloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greene         4         2         2         3         4         3         18           Hampton         13	Fluvanna	2	3	4	2	2	3	16
Frederick         9         7         7         8         8         14         53           Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         4         2         0         15           Greene         4         2         2         3         4         3         18           Greensville         2	Franklin City	0	0	0	0	1	0	1
Fredericksburg         6         4         5         2         4         5         26           Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         4         2         0         15           Greensylle         2         0         0         2         2         8         22           Greensylle         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg	Franklin	5	8	6	7	3	10	39
Galax         1         1         2         1         3         3         11           Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         2	Frederick	9	7	7	8	8	14	53
Giles         2         3         3         5         3         4         20           Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henry         11	Fredericksburg	6	4	5	2	4	5	26
Gloucester         7         6         9         4         8         13         47           Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henry         11         12         19         13         16         10         81           Highland         0 <td>Galax</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> <td>3</td> <td>3</td> <td>11</td>	Galax	1	1	2	1	3	3	11
Goochland         2         5         2         4         2         0         15           Grayson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henrico         37         26         25         39         30         42         199           Henry         11         12         19         13         16         10         81           Highland         0<	Giles	2	3	3	5	3	4	20
Grayson         3         2         5         2         2         8         22           Greene         4         2         2         3         4         3         18           Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henry         11         12         19         13         16         10         81           Highland         0         0         0         0         1         1         2           Henry         11         12         19         13         16         10         81           Highland         0	Gloucester	7	6	9	4	8	13	47
Greene         4         2         2         3         4         3         18           Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henrico         37         26         25         39         30         42         199           Henry         11         12         19         13         16         10         81           Highland         0         0         0         1         1         2         189         11         2         199           Highland         0         0         0         1         1         2         12 <td>Goochland</td> <td>2</td> <td>5</td> <td>2</td> <td>4</td> <td>2</td> <td>0</td> <td>15</td>	Goochland	2	5	2	4	2	0	15
Greensville         2         0         0         2         2         4         10           Halifax         8         4         4         5         5         4         30           Hampton         13         16         18         16         9         7         79           Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henry         11         12         19         13         16         10         81           Henry         11         1         2         3         3         2         12           Henry         11	Grayson	3	2	5	2	2	8	22
Halifax       8       4       4       5       5       4       30         Hampton       13       16       18       16       9       7       79         Hanover       12       15       17       11       6       15       76         Harrisonburg       2       4       4       6       6       2       24         Henrico       37       26       25       39       30       42       199         Henry       11       12       19       13       16       10       81         Highland       0       0       0       0       1       1       2         Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       1         King George       3       2       2       3       6       3       19         King William <t< td=""><td>Greene</td><td>4</td><td>2</td><td>2</td><td>3</td><td>4</td><td>3</td><td>18</td></t<>	Greene	4	2	2	3	4	3	18
Hampton       13       16       18       16       9       7       79         Hanover       12       15       17       11       6       15       76         Harrisonburg       2       4       4       6       6       2       24         Henrico       37       26       25       39       30       42       199         Henry       11       12       19       13       16       10       81         Highland       0       0       0       0       1       1       2         Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1 <td< td=""><td>Greensville</td><td>2</td><td>0</td><td>0</td><td>2</td><td>2</td><td>4</td><td>10</td></td<>	Greensville	2	0	0	2	2	4	10
Hanover         12         15         17         11         6         15         76           Harrisonburg         2         4         4         6         6         2         24           Henrico         37         26         25         39         30         42         199           Henry         11         12         19         13         16         10         81           Highland         0         0         0         0         1         1         2           Hopewell         1         1         2         3         3         2         12           Isle of Wight         5         1         0         3         2         4         15           James City         5         4         9         7         9         6         40           King and Queen         2         4         2         1 <td>Halifax</td> <td>8</td> <td>4</td> <td>4</td> <td>5</td> <td>5</td> <td>4</td> <td>30</td>	Halifax	8	4	4	5	5	4	30
Harrisonburg       2       4       4       6       6       2       24         Henrico       37       26       25       39       30       42       199         Henry       11       12       19       13       16       10       81         Highland       0       0       0       0       1       1       2         Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       11       1       11       1	Hampton	13	16	18	16	9	7	79
Henrico       37       26       25       39       30       42       199         Henry       11       12       19       13       16       10       81         Highland       0       0       0       0       1       1       2         Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       11       1       11       2       1 <td>Hanover</td> <td>12</td> <td>15</td> <td>17</td> <td>11</td> <td>6</td> <td>15</td> <td>76</td>	Hanover	12	15	17	11	6	15	76
Henry       11       12       19       13       16       10       81         Highland       0       0       0       0       1       1       2         Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       11       11         King George       3       2       2       3       6       3       19         King William       1       1       1       4       0       2       9         Lancaster       0       3       4       1       2       2       12         Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa	Harrisonburg	2	4	4	6	6	2	24
Highland       0       0       0       0       1       1       2         Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       1       11       1       11       2       1       2       1       1       1       1       1       1       1       1       1       1 <td< td=""><td>Henrico</td><td>37</td><td>26</td><td>25</td><td>39</td><td>30</td><td>42</td><td>199</td></td<>	Henrico	37	26	25	39	30	42	199
Hopewell       1       1       2       3       3       2       12         Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       11       11       11       11       1       1       1       1       1       1       1       1       1       1       1       1       1       1       4       0       2       9       9         Lancaster       0       3       4       1       2       2       12	Henry	11	12	19	13	16	10	81
Isle of Wight       5       1       0       3       2       4       15         James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       1       11       1       1       1       1       1       1       1       1       1       1       1       1       1       1       4       0       2       9       9         Lancaster       0       3       4       1       2       2       1       2       2       1       1       2       2       1       1       1       2       2       1       2       2       1       2       1       2       1       2       1       2       2       9       1       2       2       1       2       1       2       2       1       2       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       2       2       3       3       1       3       3       3       3       3	Highland	0	0	0	0	1	1	2
James City       5       4       9       7       9       6       40         King and Queen       2       4       2       1       1       1       11       1       1       1       1       1       1       1       1       1       1       1       1       1       4       0       2       9       9         King William       1       1       1       1       4       0       2       9       9         Lancaster       0       3       4       1       2       2       12       12         Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison	Hopewell	1	1	2	3	3	2	12
King and Queen       2       4       2       1       1       1       11         King George       3       2       2       3       6       3       19         King William       1       1       1       4       0       2       9         Lancaster       0       3       4       1       2       2       12         Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       5       23	Isle of Wight	5	1	0	3	2	4	15
King George       3       2       2       3       6       3       19         King William       1       1       1       4       0       2       9         Lancaster       0       3       4       1       2       2       12         Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	James City	5	4	9	7	9	6	40
King William       1       1       1       4       0       2       9         Lancaster       0       3       4       1       2       2       12         Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	King and Queen	2	4	2	1	1	1	11
Lancaster       0       3       4       1       2       2       12         Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	King George	3	2	2	3	6	3	19
Lee       5       4       7       5       2       5       28         Lexington       0       1       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	King William	1	1	1	4	0	2	9
Lexington       0       1       0       0       0       0       0       1         Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	Lancaster	0	3	4	1	2	2	12
Loudoun       20       23       13       24       20       35       135         Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	Lee	5	4	7	5	2	5	28
Louisa       5       8       2       5       9       7       36         Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	Lexington	0	1	0	0	0	0	1
Lunenburg       6       1       1       3       1       2       14         Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	Loudoun	20	23	13	24	20	35	135
Lynchburg       8       6       13       5       9       10       51         Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	Louisa	5	8	2	5	9	7	36
Madison       2       4       3       1       3       1       14         Manassas       2       3       9       3       1       5       23	Lunenburg	6	1	1	3	1	2	14
Manassas 2 3 9 3 1 5 23	Lynchburg	8	6	13	5	9	10	51
	Madison	2	4	3	1	3	1	14
Martinsville 0 4 0 1 1 4 10	Manassas	2	3	9	3	1	5	23
	Martinsville	0	4	0	1	1	4	10

			Year o	of Death			
County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Mathews	1	0	2	0	1	2	6
Mecklenburg	4	6	7	5	8	4	34
Middlesex	0	1	1	5	1	3	11
Montgomery	11	22	8	5	9	14	69
Nelson	2	1	3	4	4	3	17
New Kent	3	3	2	3	1	6	18
Newport News	11	15	18	14	20	23	101
Norfolk	27	34	29	22	29	28	169
Northampton	0	4	1	0	1	5	11
Northumberland	1	3	2	0	4	3	13
Norton	0	0	2	1		1	4
Nottoway	1	0	4	4	3	3	15
Orange	6	4	5	2	4	5	26
Page	6	5	7	3	4	8	33
Patrick	3	4	4	4	7	4	26
Petersburg	1	4	7	3	4	3	22
Pittsylvania	13	9	6	13	9	9	59
Poquoson	1	1	1	0	0	0	3
Portsmouth	8	14	10	11	16	8	67
Powhatan	5	2	4	2	8	6	27
Prince Edward	3	3	1	5	3	3	18
Prince George	6	7	7	7	5	4	36
Prince William	32	29	35	41	42	28	207
Pulaski	11	10	2	6	9	9	47
Radford	1	0	2	0	2	1	6
Rappahannock	0	4	3	1	3	2	13
Richmond City	32	25	22	35	21	33	168
Richmond	1	1	4	0	2	1	9
Roanoke City	10	15	19	13	18	19	94
Roanoke	11	7	19	9	20	14	80
Rockbridge	5	4	6	5	5	6	31
Rockingham	9	10	9	4	12	10	54
Russell	5	4	10	7	5	6	37
Salem	4	7	5	0	2	6	24
Scott	3	12	5	4	5	6	35
Shenandoah	7	5	8	8	5	9	42
Smyth	3	11	5	3	3	6	31
Southampton	4	1	4	3	4	2	18
Spotsylvania	13	18	17	10	22	11	91
Stafford	6	14	15	15	5	9	64
	•						_

County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Staunton	4	7	1	6	4	4	26
Suffolk	11	1	10	6	5	14	47
Surry	0	1	0	4	1	0	6
Sussex	1	2	1	4	4	1	13
Tazewell	11	4	4	12	6	6	43
Virginia Beach	61	50	45	60	64	65	345
Warren	3	12	8	6	5	7	41
Washington	6	10	11	13	10	10	60
Waynesboro	6	3	3	4	2	3	21
Westmoreland	4	2	4	2	2	5	19
Williamsburg	10	2	1	1	8	6	28
Winchester	6	1	7	2	6	5	27
Wise	9	13	8	4	5	9	48
Wythe	4	4	8	5	2	7	30
York	3	8	11	6	11	15	54
Total in State	882	900	945	969	991	1058	5745
Out of State	2	6	3	4	4	9	28
Unknown	0	0	1	1	1	0	3
TOTAL	884	906	949	974	996	1067	5776

### **HOMICIDE DEATHS (N=345)**

The number of homicides decreased 11.8 percent from the previous year. As previous years have shown, homicides most frequently occurred in males (74.5%) and in blacks (55.9%). Males also demonstrate 3 peaks of homicide deaths over the life span at the <1 year, 20-24 year, and 75-84 year age group. This pattern is seen with a lesser degree in females.

- Black males died from homicidal violence at a rate of 20.3 per 100,000; this was 7 times that of Hispanic and white males and 16 times that of Asian males
- Seventy percent of homicides were committed using a firearm, with handguns the most common type used in 51.6% of all homicides cases and 73.6% of all firearm homicides
- Richmond City has the greatest number of homicide injuries leading to death with 42 followed by Norfolk with
   29 and Newport News with 18
- One hundred sixteen or 33.6% of all homicide victims had ethanol present



Figure 35. Homicide Deaths & Rate by Year of Death, 1999-2011

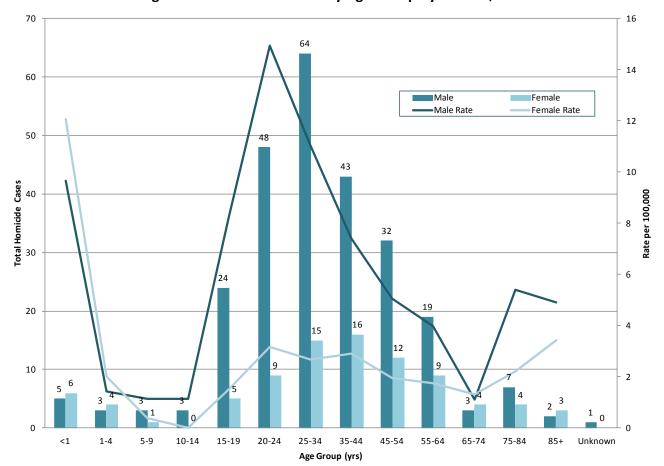
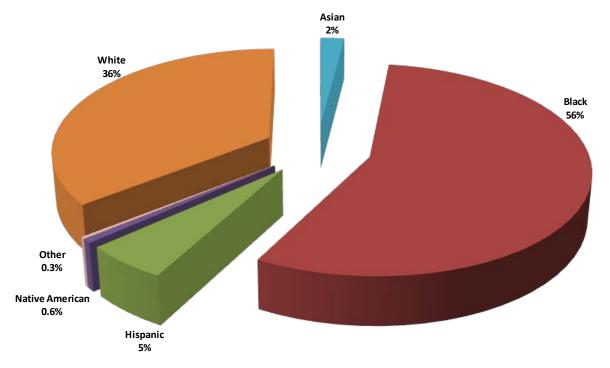


Figure 36. Homicide Deaths by Age Group by Gender, 2011





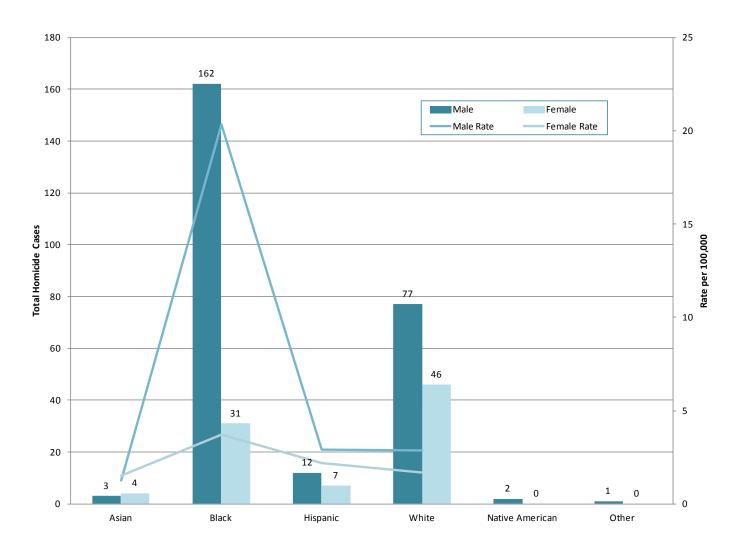


Figure 38. Homicide Deaths by Race/Ethnicity by Gender, 2011

Table 19. Homicide Deaths by Method of Death, 2011\*

Method of D	<b>Peath</b>	<b>Total Cases</b>	Autopsied
Asphyxia			
9	Strangled by assailant(s)	10	10
9	Suffocate/Smothered by assailant(s)	3	3
(	Other	1	1
Fire			
٦	Thermal and/or inhalational injuries	2	2
Legal Interve	ention		
l	Lethal injection	1	1
Poisoned			
F	Poisoned by ethanol and/or drugs	1	1
Traumatic In	njury		
E	Beaten by assailant(s)	35	35
(	Other traumatic violence	6	6
9	Stabbed by assailant(s)	38	38
9	Shot by assailant(s)	242	241
	Assault Rifle*	(0)	(0)
	Handgun	(178)	(177)
	Multiple	(1)	(1)
	Rifle*	(18)	(18)
	Shotgun	(22)	(22)
	Unspecified	(23)	(23)
Unknown			
l	Jndetermined method	6	6
TOTAL		345	344

<sup>\*</sup>Per OCME Policy 9.1-2 effective 3/5/13, the one assault rifle case was amended to rifle as it did not meet policy requirements.

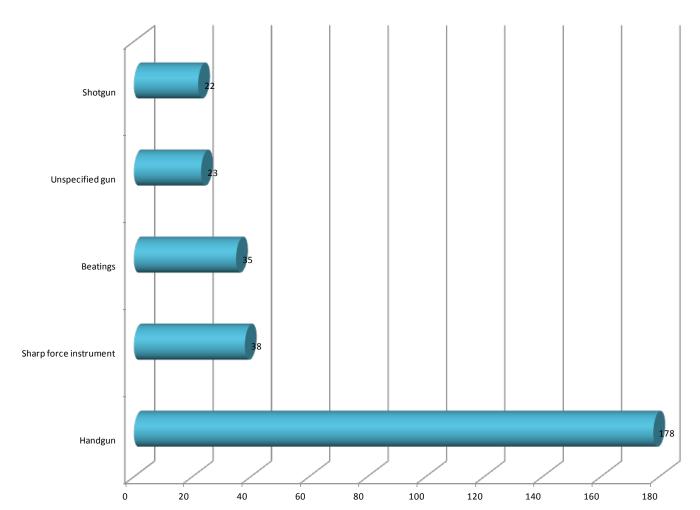


Figure 39. Homicide Deaths by Leading Methods of Death, 2011

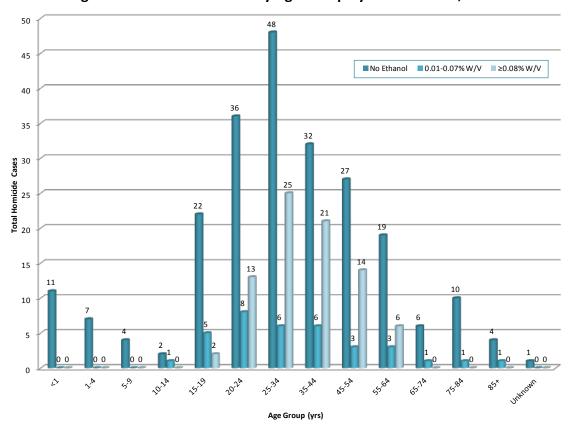
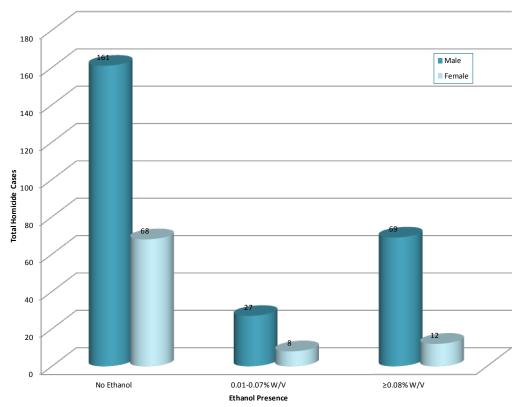


Figure 40. Homicide Deaths by Age Group by Ethanol Level, 2011





Office of the Chief Medical Examiner

Table 20. Homicide Deaths by Method of Death by Ethanol Level, 2011

	Total	No	Ethanol 0.01-0.07%	Ethanol ≥0.08%
Method of Death	Cases	Ethanol	W/V	W/V
Asphyxia				
Strangled by assailant(s)	10	8	1	1
Suffocate/Smothered by assailant(s)	3	2	0	1
Other	1	1	0	0
Fire				
Thermal and/or inhalational injuries	2	0	1	1
Legal Intervention				
Lethal injection	1	1	0	0
Poisoned				
Poisoned by ethanol and/or drugs	1	1	0	0
Traumatic Injury				
Beaten by assailant(s)	35	29	1	5
Other traumatic violence	6	5	0	1
Stabbed by assailant(s)	38	17	6	15
Shot by assailant(s)	242	159	26	57
Assault Rifle*	(0)	(0)	(0)	(0)
Handgun	(178)	(114)	(18)	(46)
Multiple	(1)	(0)	(0)	(1)
Rifle*	(18)	(13)	(2)	(3)
Shotgun	(22)	(14)	(4)	(4)
Unspecified	(23)	(18)	(2)	(3)
Unknown				
Undetermined method	6	6	0	0
TOTAL	345	229	35	81

<sup>\*</sup>Per OCME Policy 9.1-2 effective 3/5/13, the one assault rifle case was amended to rifle as it did not meet policy requirements.

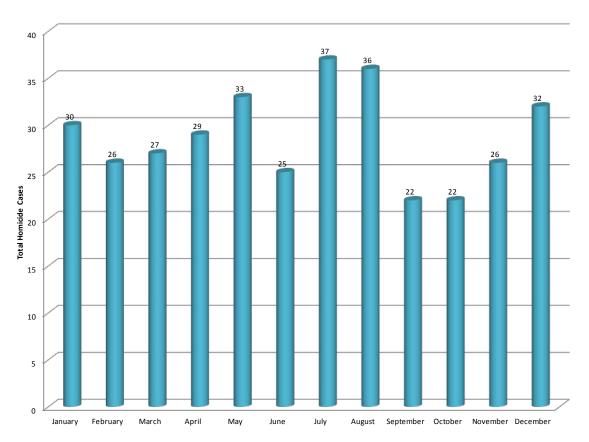
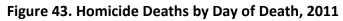


Figure 42. Homicide Deaths by Month of Death, 2011



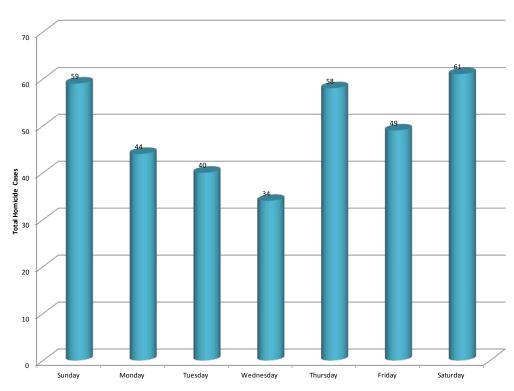


Table 21. Homicide Deaths by City/County of Residence, 2011

County/City of Residency	Total	Rate
Accomack	6	18.0
Albemarle	4	4.0
Alexandria	1	0.7
Alleghany	0	0.0
Amelia	0	0.0
Amherst	1	3.1
Appomattox	1	6.6
Arlington	0	0.0
Augusta	1	1.4
Bath	1	21.5
Bedford City	0	0.0
Bedford	1	1.4
Bland	0	0.0
Botetourt	0	0.0
Bristol	1	5.6
Brunswick	1	5.8
Buchanan	7	29.7
Buckingham	1	5.8
Buena Vista	0	0.0
Campbell	1	1.8
Caroline	1	3.5
Carroll	0	0.0
Charles City	1	13.8
Charlotte	0	0.0
Charlottesville	2	4.6
Chesapeake	11	4.9
Chesterfield	12	3.7
Clarke	0	0.0
Colonial Heights	4	22.9
Covington	1	16.8
Craig	0	0.0
Culpeper	3	6.3
Cumberland	0	0.0
Danville	7	16.3
Dickenson	2	12.7
Dinwiddie	1	3.6
Emporia	2	34.1
Essex	1	8.9
Fairfax City	0	0.0
Fairfax	12	1.1

County/City of Residency	Total	Rate
Falls Church	0	0.0
Fauquier	1	1.5
Floyd	1	6.5
Fluvanna	0	0.0
Franklin City	0	0.0
Franklin	2	3.5
Frederick	1	1.3
Fredericksburg	0	0.0
Galax	0	0.0
Giles	1	5.8
Gloucester	2	5.4
Goochland	0	0.0
Grayson	0	0.0
Greene	0	0.0
Greensville	0	0.0
Halifax	2	5.5
Hampton	11	8.1
Hanover	4	4.0
Harrisonburg	2	4.0
Henrico	13	4.2
Henry	5	9.3
Highland	0	0.0
Hopewell	2	8.9
Isle of Wight	1	2.8
James City	3	4.4
King and Queen	0	0.0
King George	0	0.0
King William	1	6.3
Lancaster	1	8.9
Lee	3	11.9
Lexington	0	0.0
Loudoun	2	0.6
Louisa	0	0.0
Lunenburg	0	0.0
Lynchburg	4	5.2
Madison	3	22.8
Manassas	4	10.2
Martinsville	3	22.1
Mathews	0	0.0
Mecklenburg	1	3.1

County/City of Residency	Total	Rate
Middlesex	1	9.2
Montgomery	1	1.1
Nelson	1	6.6
New Kent	0	0.0
Newport News	16	8.9
Norfolk	27	11.1
Northampton	0	0.0
Northumberland	0	0.0
Norton	0	0.0
Nottoway	0	0.0
Orange	0	0.0
Page	0	0.0
Patrick	1	5.4
Petersburg	6	18.6
Pittsylvania	3	4.8
Poquoson	0	0.0
Portsmouth	16	16.7
Powhatan	2	7.1
Prince Edward	1	4.3
Prince George	1	2.7
Prince William	9	2.1
Pulaski	0	0.0
Radford	1	6.1
Rappahannock	0	0.0
Richmond City	36	17.5
Richmond	0	0.0
Roanoke City	6	6.2
Roanoke	1	1.1
Rockbridge	0	0.0

County/City of Residency	Total	Rate
Rockingham	1	1.3
Russell	2	7.0
Salem	2	8.0
Scott	1	4.3
Shenandoah	0	0.0
Smyth	3	9.4
Southampton	0	0.0
Spotsylvania	3	2.4
Stafford	2	1.5
Staunton	0	0.0
Suffolk	4	4.7
Surry	0	0.0
Sussex	0	0.0
Tazewell	0	0.0
Virginia Beach	16	3.6
Warren	0	0.0
Washington	3	5.5
Waynesboro	2	9.4
Westmoreland	0	0.0
Williamsburg	0	0.0
Winchester	0	0.0
Wise	1	2.4
Wythe	1	3.4
York	2	3.0
Total in State	332	4.1
Out of State	12	ND†
Unknown	1	ND
TOTAL	345	ND
† ND- No Denominator		

Table 22. Top 10 Homicide Deaths by City/County of Residence, 2011

County/City of Residency	Total
Richmond City	36
Norfolk	27
Newport News	16
Portsmouth	16
Virginia Beach	16
Henrico	13
Chesterfield	12
Fairfax	12
Chesapeake	11
Hampton	11

Table 23. Top 10 Homicide Rates by City/County of Residence, 2011

County/City of Residency	Rate
Emporia	34.1
Buchanan	29.7
Colonial Heights	22.9
Madison	22.8
Martinsville	22.1
Bath	21.5
Petersburg	18.6
Accomack	18.0
Richmond City	17.5
Covington	16.8



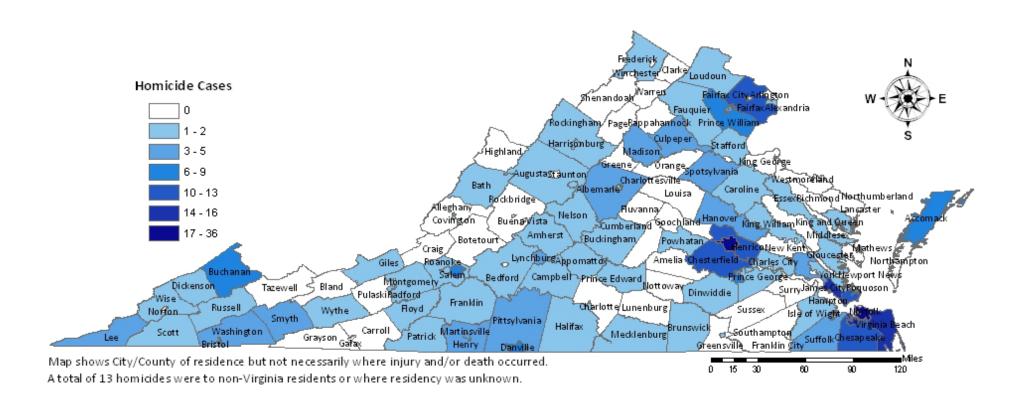
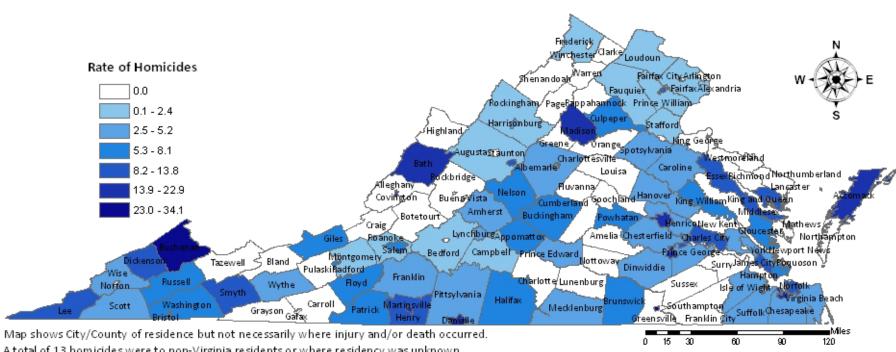


Figure 45. Homicide Rates by City/County of Residence, 2011



A total of 13 homicides were to non-Virginia residents or where residency was unknown.

Rate is per 100,000.

Figure 46. Homicide Deaths by City/County of Injury, 2006-2011

County/City of Injury         2006         2007         2008         2009         2010         2011         Total           Accomack         5         6         2         2         3         6         24           Albemarle         1         1         2         1         2         2         9           Alleghany         0         3         1         0         1         1         6           Amelia         0         0         0         0         1         1         6           Amelia         0         0         0         0         1         0         1         6           Amelia         0         0         0         0         1         0         1         6           Amelia         0         0         0         0         0         1         0         1         6           Amelia         0         0         0         0         0         1         1         0         0         1         1         1         1         1         1         1         1         1         1         1         2         0         0         0         1					oi Death			
Albemarle         1         1         2         1         2         2         9           Alexandria         4         7         4         5         2         1         23           Alleghany         0         3         1         0         1         1         6           Amelia         0         0         0         0         1         0         1         1         6           Amelia         0         0         0         0         1         0         1         3         1         0         0         1         3         3         1         0         0         1         3         3         1         0         2         2         0         0         11         2         0         0         11         2         0         0         1         1         2         0         0         2         1         0         0         2         1         0         0         2         1         0         0         1         0         0         1         1         0         0         1         1         0         0         1         0         0         1	County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Alexandria       4       7       4       5       2       1       23         Alleghany       0       3       1       0       1       1       6         Amelia       0       0       0       0       1       0       1         Amelia       0       0       0       0       1       0       1         Amelia       0       0       0       0       1       0       1         Amelia       0       0       0       0       0       1       3         Appomattox       0       2       1       0       0       1       3         Appomattox       0       2       1       0       8       1       12         Arlington       3       2       4       2       0       0       11         Arlington       3       2       4       2       0       0       0       11         Arlington       3       1       0       2       2       2       0       0       1       1       0       0       1       1       0       0       1       1       0       0       1	Accomack	5	6	2	2	3	6	24
Alleghany       0       3       1       0       1       1       6         Amelia       0       0       0       0       1       0       1         Amherst       0       1       1       0       0       1       3         Appomattox       0       2       1       0       8       1       12         Arlington       3       2       4       2       0       0       11         Augusta       3       1       0       2       2       2       10         Bath       0       0       0       0       2       0       0       2         Bedford City       0       0       1       0       0       0       1       0       0       0       1         Bedford       1       2       0       0       2       1       6       8       1       6       1       8       1       1       0       0       1       0       0       1       0       0       1       0       1       0       1       0       1       0       1       0       1       1       0       0	Albemarle	1	1	2	1	2	2	9
Amelia       0       0       0       0       1       0       1         Amherst       0       1       1       0       0       1       3         Appomattox       0       2       1       0       8       1       12         Arlington       3       2       4       2       0       0       11         Augusta       3       1       0       2       2       2       10         Bath       0       0       0       2       0       0       2         Bedford City       0       0       1       0       0       0       1         Bedford       1       2       0       0       2       1       6         Bland       0       0       0       1       0       0       1         Bedford       1       2       0       0       2       1       6         Bland       0       0       0       1       0       0       1       0       0       1       0       1       6       8         Bland       0       0       0       0       1       1       <	Alexandria	4	7	4	5	2	1	23
Amherst       0       1       1       0       0       1       3         Appomattox       0       2       1       0       8       1       12         Arlington       3       2       4       2       0       0       11         Augusta       3       1       0       2       2       2       10         Bath       0       0       0       2       0       0       2         Bedford City       0       0       1       0       0       0       1         Bedford       1       2       0       0       2       1       6         Bland       0       0       0       1       0       0       1         Bedford       1       2       0       0       2       1       6         Bland       0       0       0       1       0       0       1       6         Bland       0       0       0       1       1       0       3       1       1       0       3       1       1       1       0       3       1       1       1       0       1       1 <td>Alleghany</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>6</td>	Alleghany	0	3	1	0	1	1	6
Appomattox         0         2         1         0         8         1         12           Arlington         3         2         4         2         0         0         11           Augusta         3         1         0         2         2         2         10           Bath         0         0         0         0         2         0         0         2           Bedford City         0         0         1         0         0         0         1         6           Bedford         1         2         0         0         2         1         6         6         8         1         1         6         8         1         1         6         8         1         1         6         8         1         1         0         0         1         1         6         8         1         1         0         0         1         1         6         8         1         1         1         0         1         1         0         1         1         0         1         1         0         1         1         1         1         1         1         1	Amelia	0	0	0	0	1	0	1
Arlington 3 2 4 2 0 0 11 Augusta 3 1 0 2 2 2 2 10 Bath 0 0 0 0 2 0 0 2 Bedford City 0 0 1 0 0 0 1 Bedford 1 2 0 0 0 1 0 0 1 Bedford 1 1 2 0 0 0 1 0 0 1 Botetourt 0 1 0 1 0 0 1 Bristol 4 0 0 0 1 1 0 1 1 6 Brunswick 3 1 2 1 0 1 8 Buchanan 1 0 2 6 3 6 18 Buckingham 1 2 0 0 0 0 1 4 Buena Vista 0 0 0 0 0 1 4 Carroll 2 2 2 2 5 2 1 14 Carroll 1 4 1 1 0 8 Charles City 0 0 1 1 0 0 1 1 Charlotte 0 0 0 2 1 0 1 4 Charlottesville 5 3 5 0 3 1 17 Chesapeake 7 15 12 17 14 12 77 Chesterfield 5 9 12 4 10 10 50 Clarke 0 0 0 1 1 0 0 2 Colonial Heights 0 0 0 0 0 0 2 2 Colonial Heights	Amherst	0	1	1	0	0	1	3
Augusta       3       1       0       2       2       2       10         Bath       0       0       0       0       2       0       0       2         Bedford City       0       0       1       0       0       0       1         Bedford       1       2       0       0       2       1       6         Bland       0       0       0       1       0       0       1         Botetourt       0       1       0       1       1       0       3         Bristol       4       0       0       0       1       1       0       3         Bristol       4       0       0       0       1       1       6         Brunswick       3       1       2       1       0       1       8         Buchanan       1       0       2       6       3       6       18         Buckingham       1       2       0       0       0       0       0       0         Campbell       2       2       2       5       2       1       14         Caroline	Appomattox	0	2	1	0	8	1	12
Bath         0         0         0         2         0         0         2           Bedford City         0         0         1         0         0         0         1           Bedford         1         2         0         0         2         1         6           Bland         0         0         0         1         0         0         1         6           Bland         0         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         3         3         1         2         1         0         1         4         6         8         8         1         1         0         0         0         1         1         6         8         18         8         8         9         1         2         0         0         0         1         3         6         18         8         9         1         4         1         4         1         4         1         4         1         4         1         4 <t< td=""><td>Arlington</td><td>3</td><td>2</td><td>4</td><td>2</td><td>0</td><td>0</td><td>11</td></t<>	Arlington	3	2	4	2	0	0	11
Bedford City         0         0         1         0         0         0         1           Bedford         1         2         0         0         2         1         6           Bland         0         0         0         1         0         0         1           Botetourt         0         1         0         1         1         0         3           Bristol         4         0         0         0         1         1         0         3           Bristol         4         0         0         0         1         1         6           Brunswick         3         1         2         1         0         1         8           Buchanan         1         0         2         6         3         6         18           Buckingham         1         2         0         0         0         1         4           Buena Vista         0         0         0         0         0         0         0         0           Campbell         2         2         2         5         2         1         14           Caroline	Augusta	3	1	0	2	2	2	10
Bedford         1         2         0         0         2         1         6           Bland         0         0         0         1         0         0         1           Botetourt         0         1         0         1         1         0         3           Bristol         4         0         0         0         1         1         6           Brunswick         3         1         2         1         0         1         8           Buchanan         1         0         2         6         3         6         18           Buckingham         1         2         0         0         0         1         4           Buena Vista         0         0         0         0         0         0         0         0           Campbell         2         2         2         5         2         1         14           Caroline         5         4         0         0         0         1         10           Charles City         0         0         1         0         0         0         1         4           Charlottesville <td>Bath</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td>	Bath	0	0	0	2	0	0	2
Bland         0         0         0         1         0         0         1           Botetourt         0         1         0         1         1         0         3           Bristol         4         0         0         0         1         1         6           Brunswick         3         1         2         1         0         1         8           Buchanan         1         0         2         6         3         6         18           Buckingham         1         2         0         0         0         0         1         4           Buena Vista         0         1         14         1         1         0         0         0         1         10         0         0         1	Bedford City	0	0	1	0	0	0	1
Botetourt         0         1         0         1         1         0         3           Bristol         4         0         0         0         1         1         6           Brunswick         3         1         2         1         0         1         8           Buchanan         1         0         2         6         3         6         18           Buckingham         1         2         0         0         0         0         1         4           Buena Vista         0         1         14         1         1         1         0         0         0         1         10         0         0         1         1         0         0         1         1         0	Bedford	1	2	0	0	2	1	6
Bristol       4       0       0       0       1       1       6         Brunswick       3       1       2       1       0       1       8         Buchanan       1       0       2       6       3       6       18         Buckingham       1       2       0       0       0       0       1       4         Buena Vista       0       1       1       0       0       0       1       1       0       0       0       1       1       0       0       0       1       1       0       0       0       1       1       0       0	Bland	0	0	0	1	0	0	1
Brunswick       3       1       2       1       0       1       8         Buchanan       1       0       2       6       3       6       18         Buckingham       1       2       0       0       0       0       1       4         Buena Vista       0       1       10       0       0       0       1       10       0       0       1       10       8       0       0       0       1       10       0       0       1       10       8       0       0       1       1       0       0       1       10       0       0       1       10       0       0       1       1       0       0       1       1       0       0       1       1       1       1       0       0       1       1       0       0       0	Botetourt	0	1	0	1	1	0	3
Buchanan       1       0       2       6       3       6       18         Buckingham       1       2       0       0       0       1       4         Buena Vista       0       0       0       0       0       0       0       0         Campbell       2       2       2       2       5       2       1       14         Caroline       5       4       0       0       0       1       10         Carroll       1       4       1       1       1       0       8         Charles City       0       0       1       0       0       0       1         Charlotte       0       0       2       1       0       0       1       4         Charlottesville       5       3       5       0       3       1       17         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       0       0       0       0       2       2         Colonial Heights       0       0       0       0       0       0       0 <td>Bristol</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>6</td>	Bristol	4	0	0	0	1	1	6
Buckingham       1       2       0       0       0       1       4         Buena Vista       0       0       0       0       0       0       0         Campbell       2       2       2       2       5       2       1       14         Caroline       5       4       0       0       0       1       10       8         Charroll       1       4       1       1       1       0       8         Charles City       0       0       1       0       0       0       1         Charlottee City       0       0       1       0       0       0       1         Charlottee       0       0       2       1       0       1       4         Charlotteeville       5       3       5       0       3       1       17         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2       2         Colonial Heights       0       0       0       0       0       0       0       <	Brunswick	3	1	2	1	0	1	8
Buena Vista       0       0       0       0       0       0         Campbell       2       2       2       2       5       2       1       14         Caroline       5       4       0       0       0       1       10         Carroll       1       4       1       1       1       0       8         Charles City       0       0       1       0       0       0       1         Charlottee       0       0       2       1       0       1       4         Charlottesville       5       3       5       0       3       1       17         Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       0       0       2       2	Buchanan	1	0	2	6	3	6	18
Campbell       2       2       2       2       5       2       1       14         Caroline       5       4       0       0       0       1       10         Carroll       1       4       1       1       1       0       8         Charles City       0       0       1       0       0       0       1         Charlotte       0       0       2       1       0       1       4         Charlottesville       5       3       5       0       3       1       17         Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       0       2       2	Buckingham	1	2	0	0	0	1	4
Caroline       5       4       0       0       0       1       10         Carroll       1       4       1       1       1       0       8         Charles City       0       0       1       0       0       0       1         Charlotte       0       0       2       1       0       1       4         Charlottesville       5       3       5       0       3       1       17         Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       0       2       2	Buena Vista	0	0	0	0	0	0	0
Carroll       1       4       1       1       1       0       8         Charles City       0       0       1       0       0       0       1         Charlotte       0       0       2       1       0       1       4         Charlottesville       5       3       5       0       3       1       17         Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       0       2       2	Campbell	2	2	2	5	2	1	14
Charles City       0       0       1       0       0       0       1         Charlotte       0       0       2       1       0       1       4         Charlottesville       5       3       5       0       3       1       17         Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       0       2       2	Caroline	5	4	0	0	0	1	10
Charlotte         0         0         2         1         0         1         4           Charlottesville         5         3         5         0         3         1         17           Chesapeake         7         15         12         17         14         12         77           Chesterfield         5         9         12         4         10         10         50           Clarke         0         0         1         1         0         0         2           Colonial Heights         0         0         0         0         0         2         2	Carroll	1	4	1	1	1	0	8
Charlottesville       5       3       5       0       3       1       17         Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       2       2	Charles City	0	0	1	0	0	0	1
Chesapeake       7       15       12       17       14       12       77         Chesterfield       5       9       12       4       10       10       50         Clarke       0       0       1       1       0       0       2         Colonial Heights       0       0       0       0       0       2       2	Charlotte	0	0	2	1	0	1	4
Chesterfield         5         9         12         4         10         10         50           Clarke         0         0         1         1         0         0         2           Colonial Heights         0         0         0         0         0         2         2	Charlottesville	5	3	5	0	3	1	17
Clarke         0         0         1         1         0         0         2           Colonial Heights         0         0         0         0         0         2         2	Chesapeake	7	15	12	17	14	12	77
Colonial Heights         0         0         0         0         0         2         2	Chesterfield	5	9	12	4	10	10	50
	Clarke	0	0	1	1	0	0	2
Covington 0 0 0 0 1 1 2	Colonial Heights	0	0	0	0	0	2	2
	Covington	0	0	0	0	1	1	2
Craig 0 0 1 0 0 1	Craig	0	0	1	0	0	0	1
Culpeper         1         1         0         0         0         3         5		1	1	0	0	0	3	5
Cumberland         0         2         0         2         0         4	Cumberland	0	2	0	2	0	0	4
Danville 5 6 10 8 9 6 <b>44</b>	Danville	5	6	10	8	9	6	44
Dickenson 0 1 1 1 1 2 <b>6</b>	Dickenson	0	1	1	1	1	2	6
Dinwiddie 5 1 1 1 2 1 <b>11</b>	Dinwiddie	5	1	1	1	2	1	11
Emporia 1 2 1 0 1 1 <b>6</b>	Emporia	1	2	1	0	1	1	6

			1 Cai	of Death			
County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Essex	0	0	0	0	0	1	1
Fairfax City	1	1	1	0	0	0	3
Fairfax	29	16	25	19	16	12	117
Falls Church	0	0	0	0	0	0	0
Fauquier	2	4	1	3	1	1	12
Floyd	0	0	2	2	0	1	5
Fluvanna	0	0	1	0	0	0	1
Franklin City	0	0	0	2	1	0	3
Franklin	2	1	1	4	3	2	13
Frederick	7	0	2	2	1	1	13
Fredericksburg	0	2	2	1	0	1	6
Galax	1	1	0	1	0	0	3
Giles	1	0	0	0	0	1	2
Gloucester	0	1	1	0	1	2	5
Goochland	1	0	2	0	1	0	4
Grayson	0	1	7	0	0	0	8
Greene	0	1	0	0	0	3	4
Greensville	5	0	6	4	4	2	21
Halifax	1	3	4	0	2	2	12
Hampton	14	7	9	11	17	8	66
Hanover	2	0	1	0	1	2	6
Harrisonburg	4	0	1	0	1	2	8
Henrico	10	15	16	12	12	13	78
Henry	7	3	6	5	7	6	34
Highland	0	0	0	0	0	0	0
Hopewell	4	3	3	4	2	3	19
Isle of Wight	1	0	2	1	0	0	4
James City	1	1	1	1	0	2	6
King and Queen	0	0	0	0	0	0	0
King George	0	0	0	2	0	0	2
King William	0	2	0	0	0	1	3
Lancaster	2	0	1	0	3	1	7
Lee	0	1	2	1	4	4	12
Lexington	0	0	0	0	0	0	0
Loudoun	4	2	4	4	1	2	17
Louisa	0	4	1	1	3	0	9
Lunenburg	1	1	2	1	0	0	5
Lynchburg	2	1	4	0	3	4	14

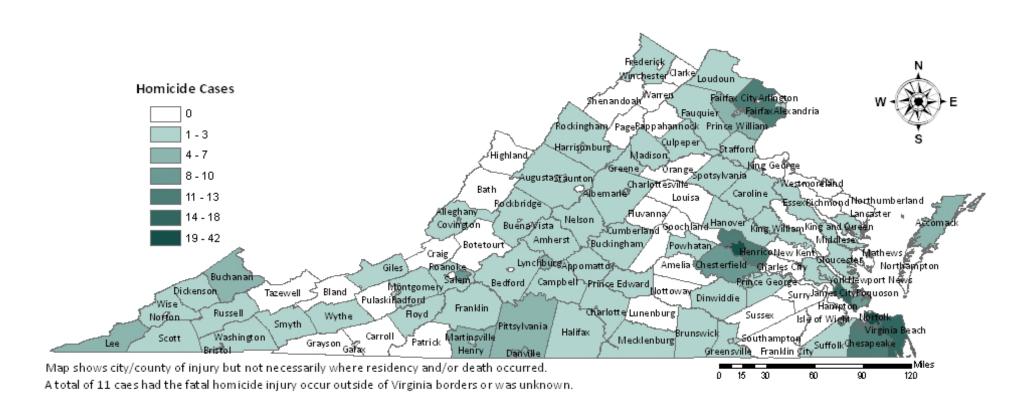
			rear	or Death			
County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Madison	0	0	1	0	1	3	5
Manassas	1	1	4	1	1	4	12
Martinsville	0	2	2	0	3	2	9
Mathews	0	0	0	1	0	0	1
Mecklenburg	0	1	4	1	2	1	9
Middlesex	1	0	0	0	0	1	2
Montgomery	3	33	3	7	2	1	49
Nelson	0	1	0	1	1	1	4
New Kent	0	0	1	1	0	0	2
Newport News	20	30	16	24	23	18	131
Norfolk	34	53	29	50	34	29	229
Northampton	2	1	0	0	2	0	5
Northumberland	0	1	0	0	0	0	1
Norton	0	0	0	0	0	0	0
Nottoway	0	1	0	1	1	0	3
Orange	2	1	1	1	1	0	6
Page	1	0	0	0	1	0	2
Patrick	0	1	0	0	0	0	1
Petersburg	10	7	5	11	13	7	53
Pittsylvania	2	4	3	4	4	5	22
Poquoson	0	0	0	0	0	0	0
Portsmouth	18	17	16	18	14	12	95
Powhatan	0	0	4	1	1	3	9
Prince Edward	0	1	1	7	0	1	10
Prince George	0	0	1	3	2	1	7
Prince William	12	14	11	11	10	6	64
Pulaski	1	0	2	1	2	0	6
Radford	1	0	1	0	1	1	4
Rappahannock	1	0	0	0	1	0	2
Richmond City	85	61	39	44	44	42	315
Richmond	0	0	1	0	0	0	1
Roanoke City	13	8	13	12	8	9	63
Roanoke	1	2	1	2	6	1	13
Rockbridge	0	1	1	0	1	1	4
Rockingham	1	0	1	1	0	1	4
Russell	2	0	1	1	0	3	7
Salem	0	0	2	1	1	0	4
Scott	0	2	1	0	1	1	5

County/City of Injury	2006	2007	2008	2009	2010	2011	Total
Shenandoah	0	0	0	1	0	0	1
Smyth	0	0	3	1	0	3	7
Southampton	1	3	0	2	1	0	7
Spotsylvania	4	4	0	4	6	3	21
Stafford	1	3	6	6	2	2	20
Staunton	0	0	2	3	2	1	8
Suffolk	8	3	5	8	4	3	31
Surry	0	0	1	0	2	0	3
Sussex	1	0	0	0	0	0	1
Tazewell	0	3	2	6	4	0	15
Virginia Beach	20	18	18	17	15	17	105
Warren	2	0	0	1	0	0	3
Washington	0	1	2	1	2	3	9
Waynesboro	0	1	1	0	2	0	4
Westmoreland	2	1	1	0	0	0	4
Williamsburg	1	0	0	0	0	1	2
Winchester	2	2	0	0	0	0	4
Wise	0	2	0	1	1	1	5
Wythe	1	0	2	0	0	1	4
York	3	1	1	2	0	2	9
Total in State	422	435	387	403	376	334	2357
Out of State	1	6	4	1	6	5	23
Unknown	4	2	8	6	9	6	35
TOTAL	427	443	399	410	391	345	2415

Table 24. Top 10 Homicide Deaths by City/County of Injury, 2011

County/City of Injury	<b>Total Cases</b>
Richmond City	42
Norfolk	29
Newport News	18
Virginia Beach	17
Henrico	13
Chesapeake	12
Fairfax County	12
Portsmouth	12
Chesterfield	10
Roanoke City	9





# **UNDETERMINED DEATHS (N=161)**

Undetermined deaths increased for the 6<sup>th</sup> year in a row with a 6.6% rise from 2010.

- Thirty-two percent of the cases assigned an undetermined manner had a determined cause of death
- Forty-three percent of the undetermined deaths were in infants less than 1 year of age

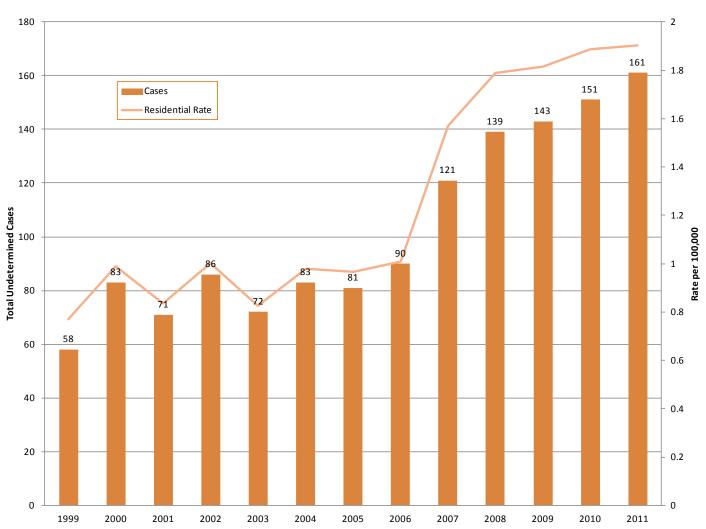


Figure 48. Undetermined Deaths by Year of Death, 1999-2011

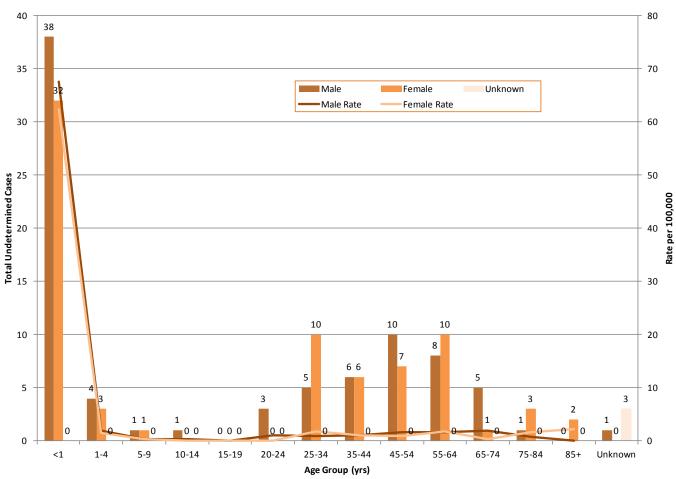
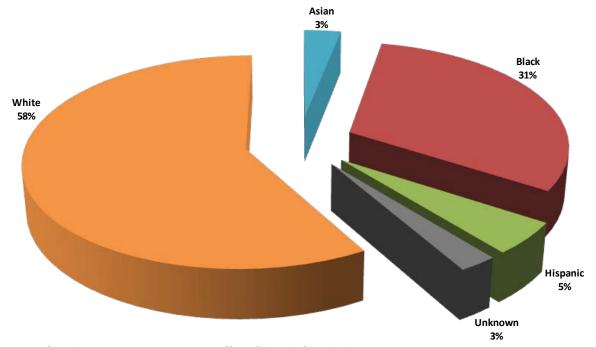


Figure 49. Undetermined Deaths by Age Group by Gender, 2011





Virginia Department of Health

Office of the Chief Medical Examiner

December 2012

Table 25. Undetermined Deaths by Cause of Death, 2011

		<b>Total Cases</b>	Autopsied
<b>Undetermined M</b>	lanner & Cause of Death		
	Undetermined after autopsy and/or toxicology	109	107
Subtotal for Und	etermined Manner & Cause of Death	109	107
Undetermined M	lanner but Cause of Death Determined		
Asphyxia			
	Drowning	4	3
	Hanging	1	1
	Other asphyxia	3	3
Drug Use			
	Ingested and/or injected illicit, prescription, and/or OTC medication	25	19
Fire			
	Thermal burns and/or inhalation of combustions products	2	2
Motor Vehicle			
	Car	2	1
	Pickup Truck	1	1
Poisoning			
	Carbon monoxide poisoning	2	1
Traumatic Injury			
	Beatings/Blows	1	1
	Fall	3	3
	Gunshot Wound	5	5
	Handgun	(5)	(5)
	Steam/Scald	1	1
	Other Traumatic Causes	2	1
Subtotal for Und	etermined Manner but Cause of Death Determined	52	42
Total		161	149

# SECTION 4: DEATHS OF CHILDREN (17 Years of Age & Younger) (N=348)

The 348 deaths of children represented 6.1% of all deaths investigated by the OCME in 2011.

- Males represented 58% of all child cases
- The less than one year age group had the largest percentage of cases (44%)
- The leading causes of death were blunt force injuries to the head or neck (62 or 17.8%), followed by SUID cases (58 or 16.7%), and then multiple blunt force injuries to the body with 19 cases or 5.5%

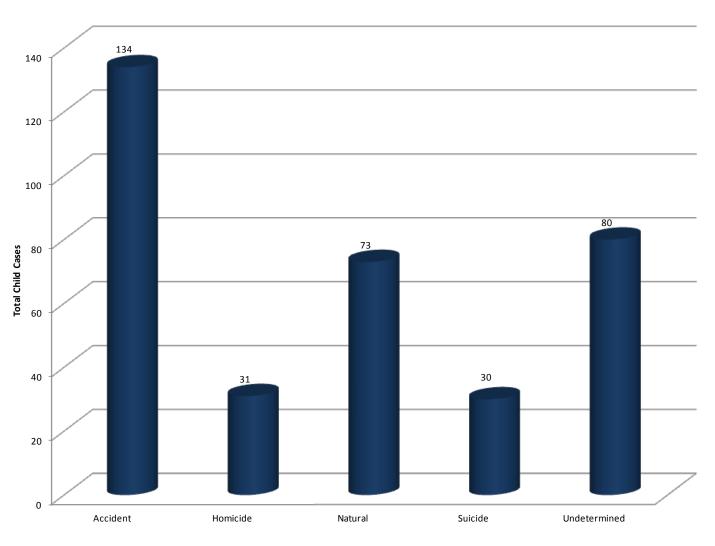


Figure 51. Child Deaths by Manner, 2011

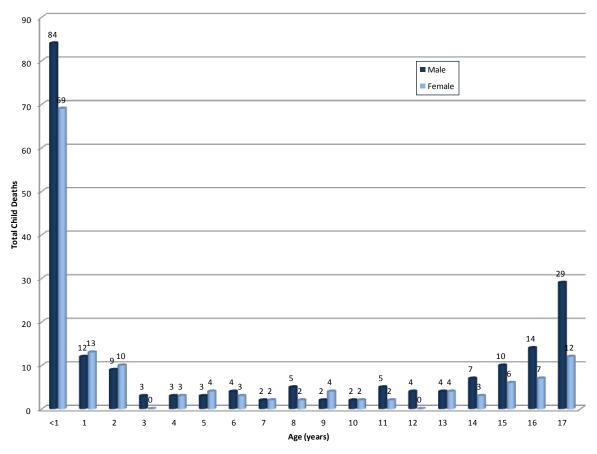
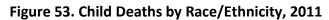
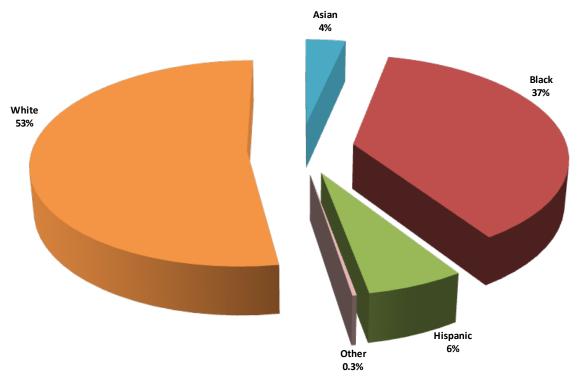


Figure 52. Child Deaths by Age by Gender, 2011





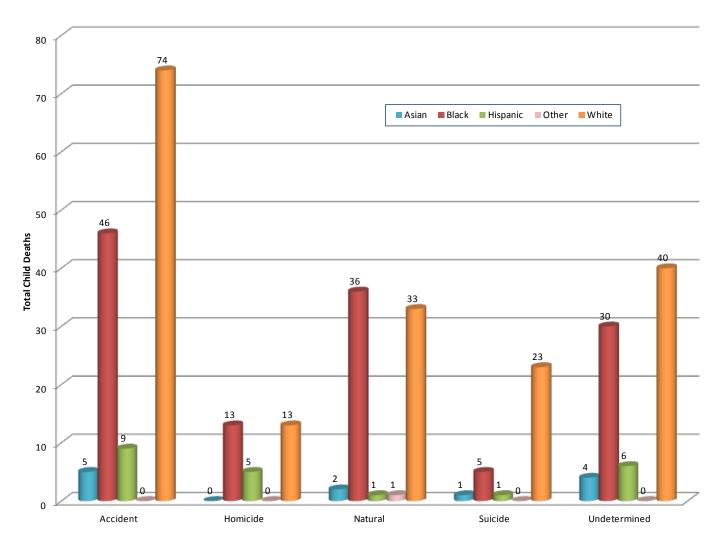


Figure 54. Child Deaths by Manner by Race/Ethnicity, 2011

Table 26. Child Deaths by Cause of Death, 2011

Natural Deaths		Total Cases	Autopsied
Pulmonary Diseases	s/Disorders		
	Asthma	2	1
	Emboli	1	1
	Pneumonia	8	8
	Other Pulmonary Disease/Disorder	2	2
Central Nervous Sys	tem Diseases/Disorders		
	Meningitis (Bacterial or Viral)	1	1
	Other CNS Disease/Disorder	1	1
Cardiovascular Dise	ases/Disorders		
	Congenital Defect	2	2
	Vascular Dissection/Rupture	1	1
	Cardiomyopathy NOS	2	2
	Other Cardiac Disease/Disorder	3	3
Gastrointestinal Dis	eases/Disorders		
	Other GI Disease/Disorder	3	3
Perinatal and Pedia	tric Diseases/Disorders		
	Maternal Complications	3	2
	Fetal Complications	5	5
	Sudden Infant Death Syndrome (SIDS)	16	16
	Other Perinatal or Pediatric Disorder	7	6
Systemic Diseases/I	Disorders		
	Blood Disorder	1	1
	Sepsis	8	8
	Other Infectious Disease	3	3
	Other Systemic Disease/Disorder	3	2
Other Natural Disea	se/Disorder		
	Other Natural Disease/Disorder	1	1
Natural Subtotal		73	69
Unnatural Deaths		Total Cases	Autopsied
Asphyxia			
- 1 7	Choking (Aspiration: Food or Foreign Object)	3	2
	Drowning	17	12
	Hanging	14	4
	Mechanical/Positional	11	11
	Strangulation/Neck Compression	1	1
	Suffocation/Smothering	13	13
	Plastic Bag	2	0

Blunt Force Injuries		
Head/Neck	62	16
Chest	2	0
Abdomen	3	2
Torso	4	2
Extremities	1	0
Multiple	19	5
Exposure	13	<u> </u>
Hyperthermia	2	2
Fire Injuries		
Inhalation of Combustion Products	2	2
Gunshot Wound		
Handgun	14	14
Rifle	2	2
Shotgun	8	8
Penetrating Injuries	<u> </u>	
Stab	3	3
Other Penetrating Injuries	1	1
Substance Abuse	<del>_</del>	
Prescription Drug Poisoning	10	10
Mixed Category Drug Poisoning	1	1
OTC Poisoning	1	1
Other Unnatural Deaths		
Other Unnatural	11	9
Unnatural Subtotal	207	121
Undetermined Deaths	Total Cases	Autopsied
Undetermined After Autopsy and/or Investigation		-
Sudden Unexpected Infant Death (SUID)	58	58
Skeletal/Mummified Remains	1	1
Other Undetermined	9	9
Undetermined Subtotal	68	68
TOTAL	348	258

# **NATURAL DEATHS OF CHILDREN (N=63)**

The less than 1 year old age group comprised 69.8% of all the natural deaths of children that fell under the OCME's jurisdiction.

 SIDS was the leading cause of natural deaths with 16 cases, a slight increase from 14 in 2010 but a significant less amount since OCME initiated the SUID classification statewide in 2007

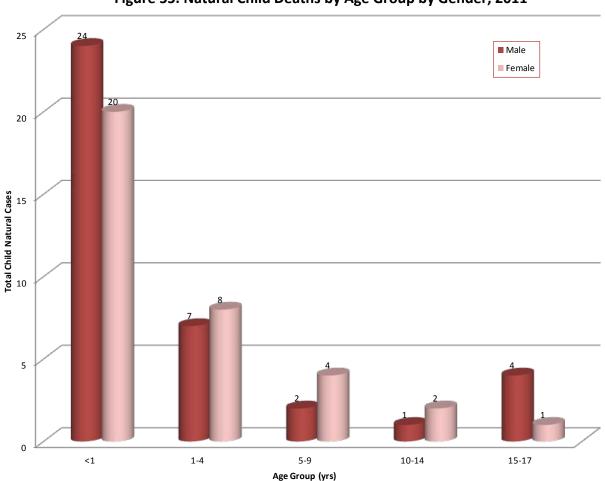


Figure 55. Natural Child Deaths by Age Group by Gender, 2011

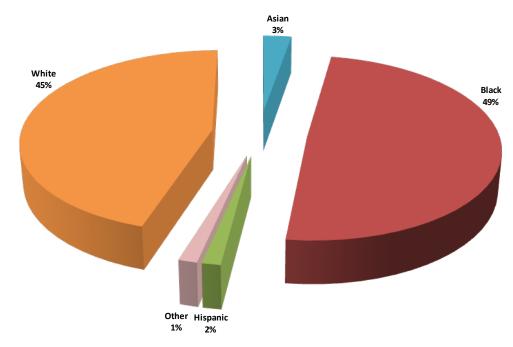
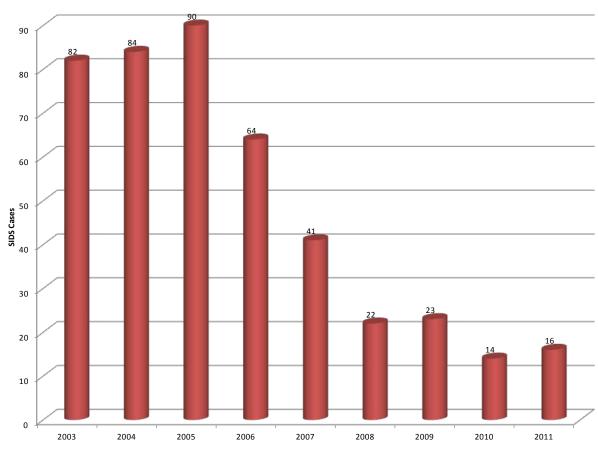


Figure 56. Natural Child Deaths by Race/Ethnicity, 2011





# **ACCIDENTAL DEATHS OF CHILDREN (N=134)**

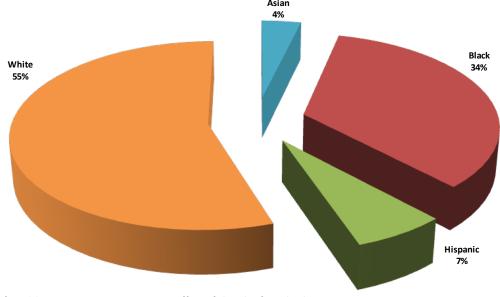
The number of accidental deaths of children increased 15.5% from 2010.

- More accidental deaths occurred in males (59%), whites (55.2%), and those aged 15-17 years (30.9%)
- Motor vehicles were the leading method of death (n=68) followed by drowning (n=16)

30 35 Male Female Male Rate Female Rate 30 25 25 20 Child Accident Cases 17 17 20 **Bate ber 100,000** 15 13 otal 11 11 10 10 10 5 n 1-4 10-14 15-17 Age Group (yrs)

Figure 58. Accidental Child Deaths by Age Group by Gender, 2011





Virginia Department of Health

Office of the Chief Medical Examiner

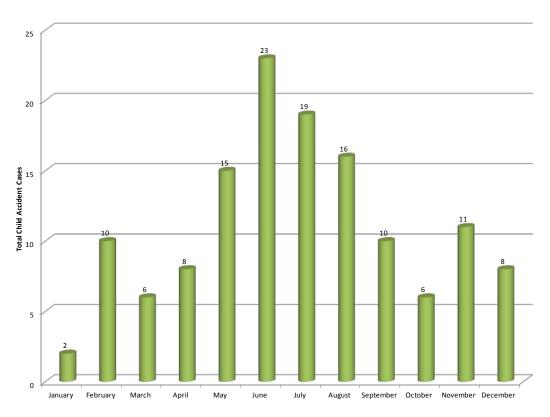
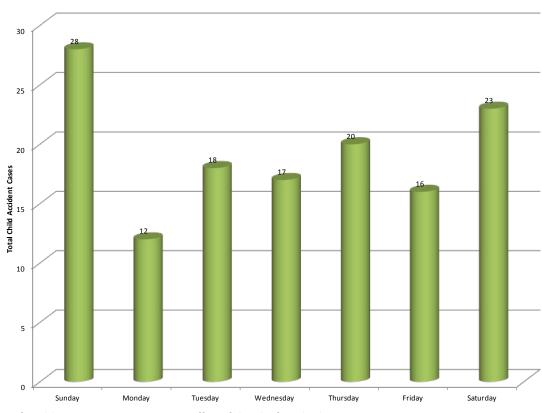


Figure 60. Accidental Child Deaths by Month of Death, 2011





Office of the Chief Medical Examiner

Table 27. Accidental Child Deaths by Method of Death, 2011

Method of Death		<b>Total Cases</b>	Autopsied
Animal/Insect			
	Bitten, stung, or kicked by animal/insect	4	1
Asphyxia			
	Choked on food/foreign object	3	2
	Drowned	16	11
	Hanging	2	1
	Mechanical/Positional	9	9
	Suffocation/Smothering	12	12
Drug Use			
	Ingested and/or injected illicit, prescription, and/or other		
	type of drug	5	5
Environmental Exp	osure		
	Hyperthermia	2	2
Fall			
	Fall from any height	3	0
Fire			
	Thermal burns and/or inhalation of combustion products	2	2
Vehicular			
	All terrain vehicle	1	0
	Bicycle	1	0
	Car	37	6
	Farm equipment	1	0
	Motorcycle	2	0
	Pickup Truck	6	0
	Skateboard	1	0
	Sport Utility Vehicle	15	4
	Train	2	0
	Van	2	0
Traumatic Injury			
	Accidental discharge of firearm	2	2
	Handgun	(1)	(1)
	Shotgun	(1)	(1)
	Falling object	4	1
	Other	2	2
TOTAL		134	60

### **SUICIDE DEATHS OF CHILDREN (N=30)**

The number of child suicides in 2011 increased from the previous year, although child suicides tend to vary year to year.

- Childhood suicides mirror what is seen in adults as they were most frequent in males (76.78%) and whites (76.7%)
- The majority of children (80%) committed suicide either by using a firearm (43.3%) or hanging themselves (36.7%)

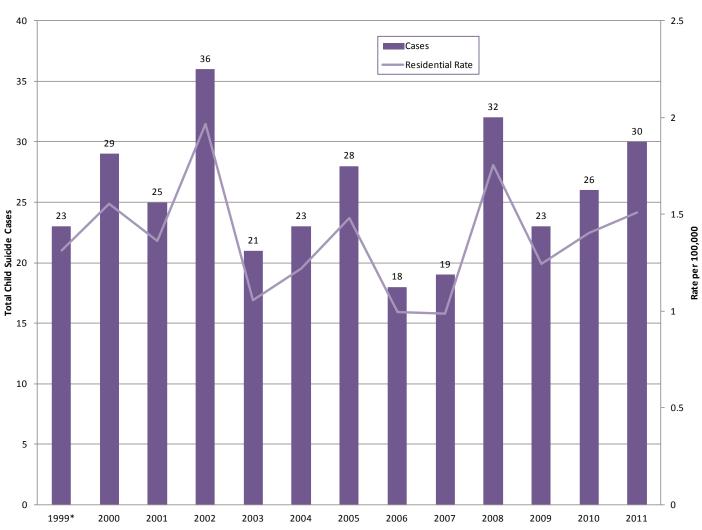


Figure 62. Child Suicide Deaths by Year of Death, 1999-2011

<sup>\*</sup> The 1999 population data is an estimate from VDH's Center for Health Statistics' data. The 15-17 year olds were contained within the age group for 15-19 year olds; therefore, 60 percent of the 15-19 age group was added to the 0-14 year old age group to estimate the total 1999 population of <1-17 year olds.

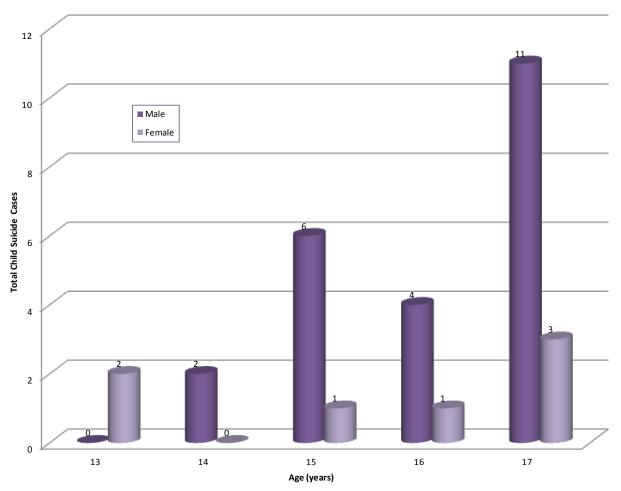
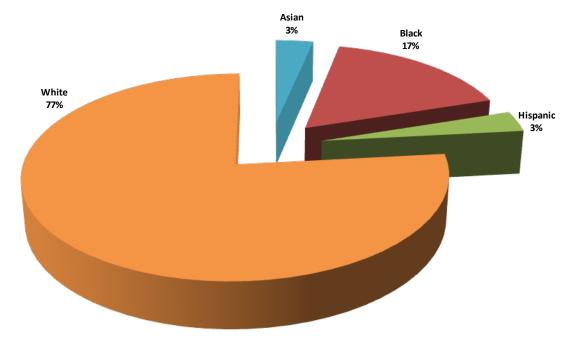


Figure 63. Child Suicide Deaths by Age by Gender, 2011

Figure 64. Child Suicide Deaths by Race/Ethnicity, 2011



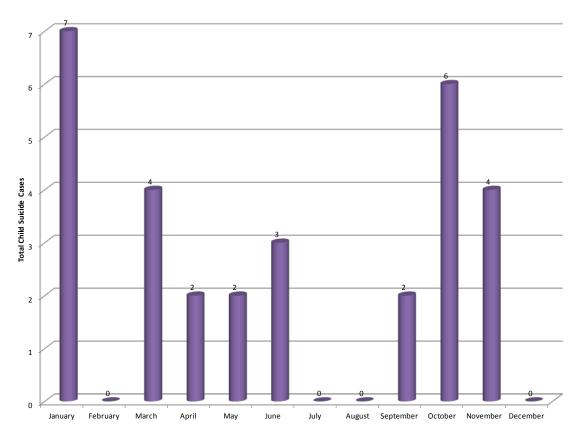
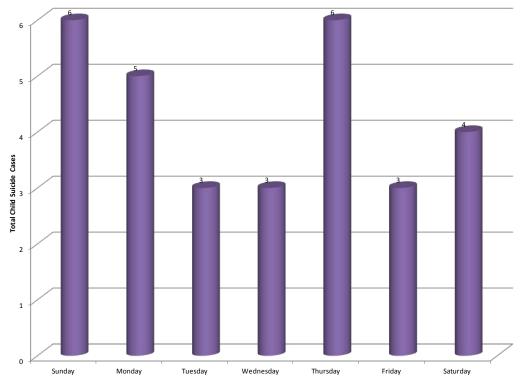


Figure 65. Child Suicide Deaths by Month of Death, 2011





Office of the Chief Medical Examiner

Table 28. Child Suicide Deaths by Method of Death, 2011

Method of Death		<b>Total Cases</b>	Autopsied
Asphyxia			
	Drowning	1	1
	Hanging	11	2
	Plastic bag	2	0
Drug Use			
	Ingested and/or injected illicit, prescription, and/or other type of drug	2	2
Motor Vehicle			
	Sport Utility Vehicle	1	0
Traumatic Injury			
	Gunshot Wound	13	13
	Handgun	(6)	(6)
	Rifle	(2)	(2)
	Shotgun	(5)	(5)
Total		30	18

## **HOMICIDE DEATHS OF CHILDREN (N=35)**

For a second year in a row, there was a decrease in homicides of children for 2011 and the lowest number of child homicides in the last 13 years. Homicides of children represented 10% of all homicides.

- Black and white children had the same number of homicides (n=13), although black children still were disproportionally killed compared to their portion of the general population
- Infants continued to have the highest number (n=11)
- Males accounted for 58.1% of all childhood homicides
- Beatings were responsible for 32.3% of all childhood homicides followed closely by being shot (29%)

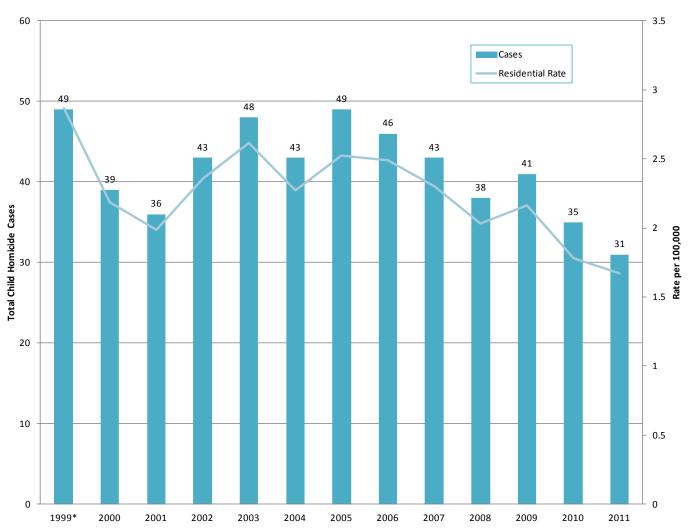


Figure 67. Child Homicide Deaths by Year of Death, 1999-2011

<sup>\*</sup> The 1999 population data is an estimate from VDH's Center for Health Statistics' data. The 15-17 year olds were contained within the age group for 15-19 year olds; therefore, 60 percent of the 15-19 age group was added to the 0-14 year old age group to estimate the total 1999 population of <1-17 year olds.

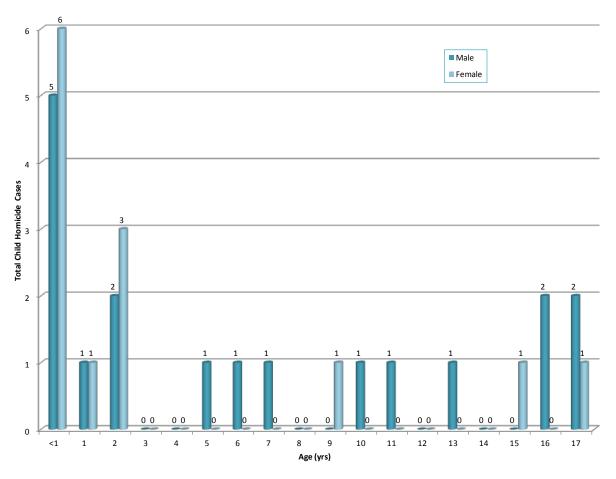
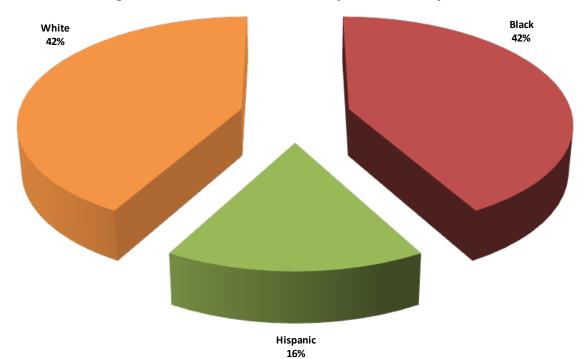


Figure 68. Child Homicide Deaths by Age by Gender, 2011





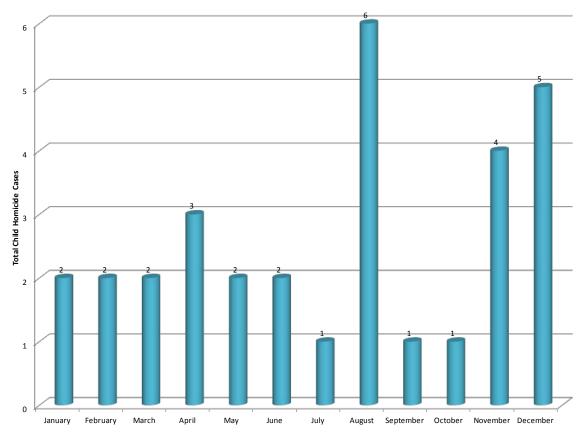
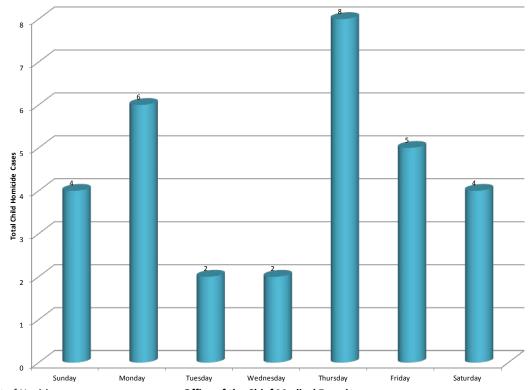


Figure 70. Child Homicide Deaths by Month of Death, 2011





Office of the Chief Medical Examiner

Table 29. Child Homicide Deaths by Method of Death, 2011

Method of Death		<b>Total Cases</b>	Autopsied
Asphyxia			
	Mechanical	1	1
	Strangulation	1	1
Traumatic Injury			
	Beaten by assailant(s)	10	10
	Fall/Push		
	Shot by assailant(s) with firearm	9	9
	Handgun	(7)	(7)
	Shotgun	(2)	(2)
	Stabbed by assailant(s)	3	3
	Other	4	4
Unknown			
	Undetermined method	3	3
Total		31	31

## **UNDETERMINED DEATHS OF CHILDREN (N=80)**

A total of 80 undetermined deaths of children occurred in 2011; this represents approximately half of all undetermined cases.

- The less than 1 year of age group accounted for 97.5% of undetermined deaths
- Seventy-three percent had the diagnosis of SUID

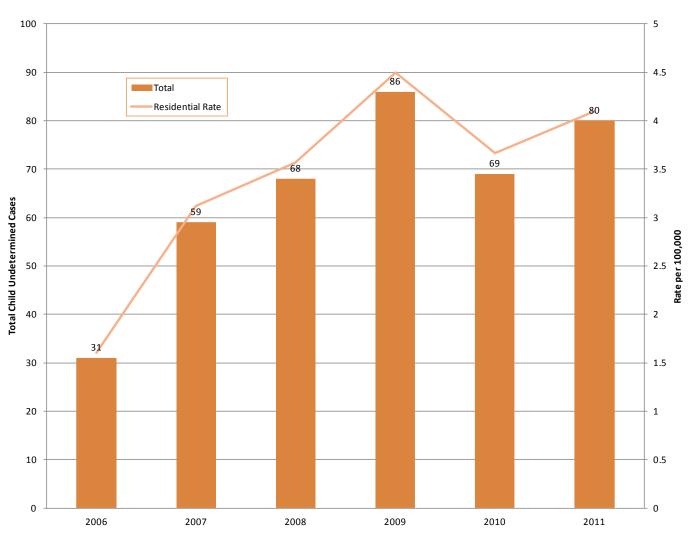


Figure 72. Undetermined Child Deaths by Year of Death, 2006-2011

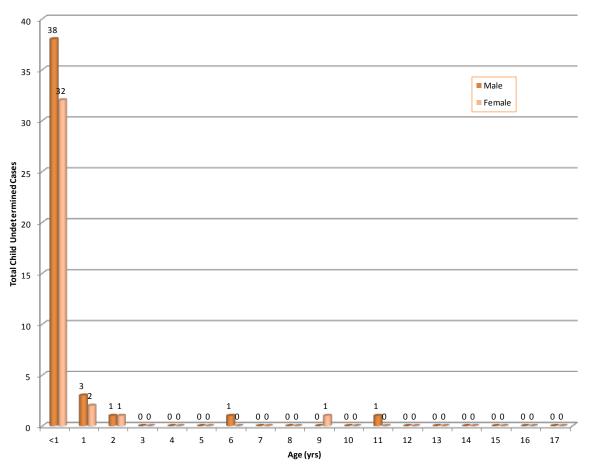


Figure 73. Undetermined Child Deaths by Age by Gender, 2011



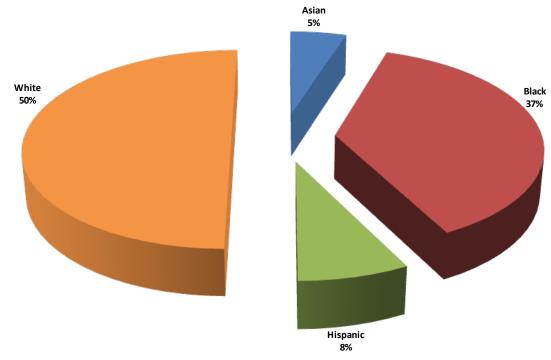


Table 30. Undetermined Child Deaths by Cause of Death, 2011

Method of Death		<b>Total Cases</b>	Autopsied					
<b>Undetermined Ma</b>	Undetermined Manner & Cause of Death							
	Skeletal/Mummified Remains	1	1					
	Sudden Unexpected Infant Death	58	58					
	Undetermined after autopsy and/or toxicology	9	9					
Subtotal for Undet	ermined Manner & Cause of Death	68	68					
<b>Undetermined Ma</b>	nner but Cause of Death Determined		_					
Asphyxia								
	Hanging	1	1					
	Positional	1	1					
	Suffocation/Smothering	1	1					
Drug Use								
	Ingested and/or injected illicit, prescription, and/or							
	other type of drug	5	5					
Traumatic Injury								
	Beatings/Blows	1	1					
	Other	3	3					
Subtotal for Undet	ermined Manner but Cause of Death Determined	12	12					
Total		80	80					

## **SECTION 5: MOTOR VEHICLE COLLISIONS RELATED DEATHS (N=875)**

The OCME investigated 875 motor vehicle collision (MVC) related deaths in 2011. [NOTE: Three cases were not included in the MVC section as they were not traditional vehicular crashes (ex. skateboards)]. This is a 7.1% increase from 2010 reversing the last few years of a downward trend.

- The vast majority of cases were accidents (98.4%) and males (72.7%)
- In 23% of all motor vehicle deaths, the decedent had a blood alcohol content greater than or equal to
   0.08% W/V and 69.5% of them were drivers
- Persons aged 45-54 years old had slightly more deaths (16.1%) in motor vehicle incidents than any other age group, but they were closely followed by the 25-34 age group
- Thirty-three children under the age of 15 died in MVC-related incidents with 9 or 27.3% of them being pedestrians

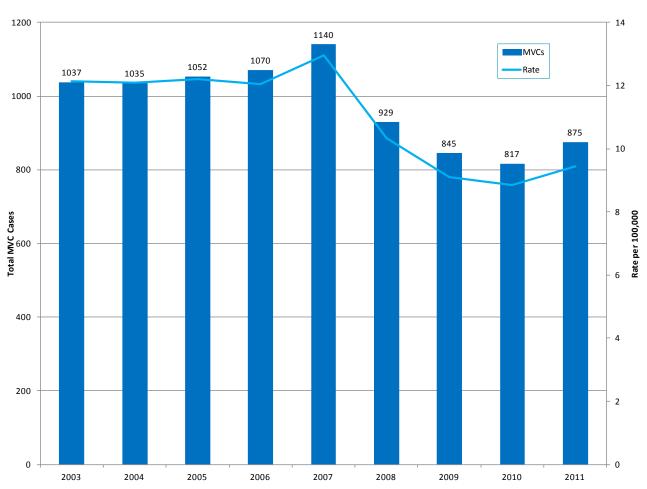


Figure 75. Motor Vehicle Deaths by Year of Death, 2003-2011

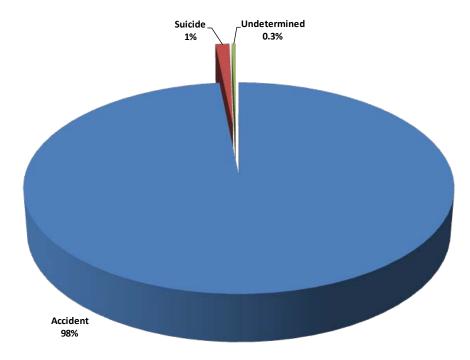
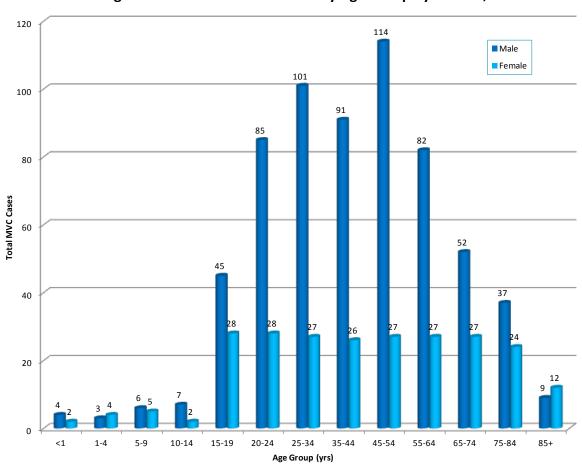


Figure 76. Motor Vehicle Deaths by Manner, 2011





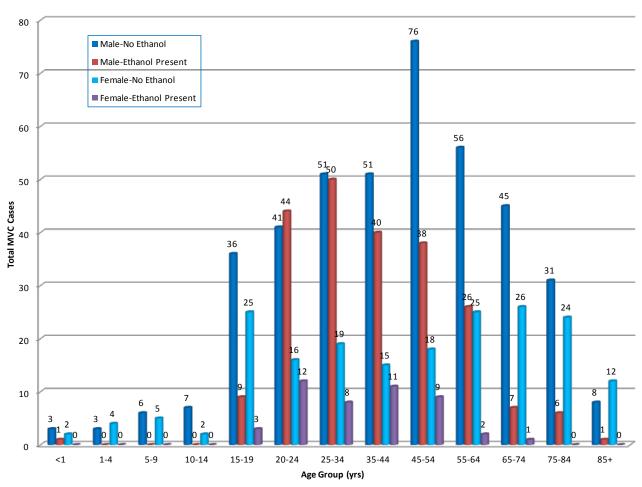
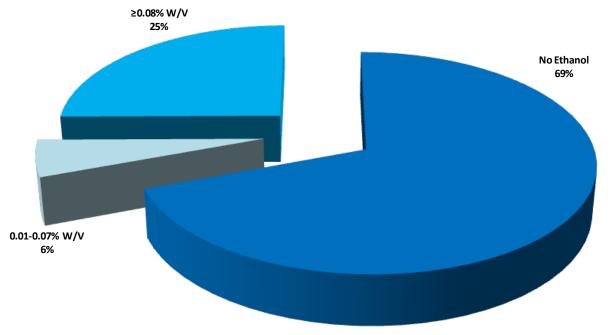


Figure 78. Motor Vehicle Deaths by Age Group by Gender by Ethanol Presence, 2011





Virginia Department of Health

Office of the Chief Medical Examiner

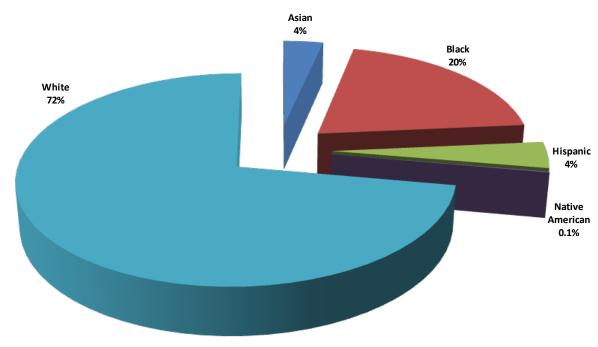


Figure 80. Motor Vehicle Deaths by Race/Ethnicity, 2011



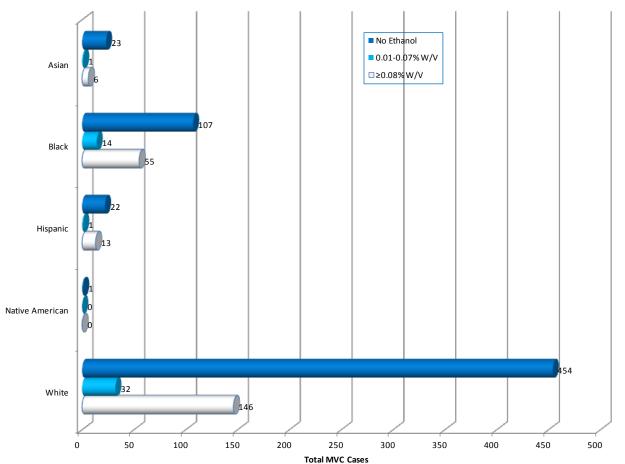


Table 31. Motor Vehicle Deaths by Age Group by Position In or Out of Vehicle, 2011

Age Group	Driver	Passenger- Front	Passenger- Rear	Passenger- Other	Passenger- Cargo	Pedestrian	Unknown Status	Total
<1	0	1	1	4	0	0	0	6
1-4	0	0	4	0	0	3	0	7
5-9	1	1	5	1	0	3	0	11
10-14	1	3	2	0	0	3	0	9
15-19	33	15	7	2	1	15	0	73
20-24	80	15	4	0	3	10	1	113
25-34	96	7	3	1	6	15	0	128
35-44	83	7	6	5	1	14	1	117
45-54	102	9	2	0	3	23	2	141
55-64	76	8	4	0	3	17	1	109
65-74	56	11	2	0	1	9	0	79
75-84	43	10	3	0	2	3	0	61
85+	15	4	0	0	0	2	0	21
Total	586	91	43	13	20	117	5	875

Figure 82. Motor Vehicle Deaths by Position In or Out of Vehicle by Ethanol Level, 2011

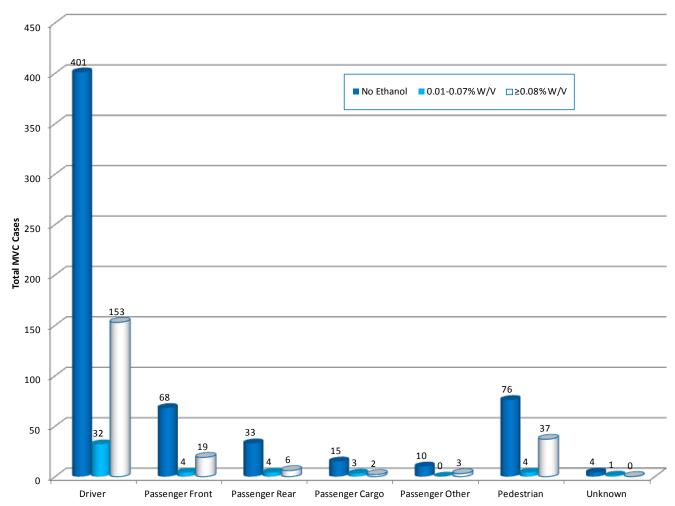


Table 32. Motor Vehicle Deaths by Decedent Status by Vehicle Type by Ethanol Level, 2011

### **Ethanol Presence**

	Ethanoi Presence				
		No	0.01-0.07%	≥0.08%	
Status of Decedent	Vehicle	Ethanol	W/V	W/V	Total
	Aircraft	6	0	0	6
	All terrain vehicle	10	1	3	14
	Bicycle	11	0	2	13
	Boat	0	0	1	1
	Car	176	18	75	269
	Farm equipment	8	1	0	9
	Lawnmower	2	0	0	2
	Mo-ped	8	0	0	8
Driver	Motorcycle	72	7	21	100
	Multiple	1	0	0	1
	Pickup Truck	47	1	18	66
	Sport Utility Vehicle	34	3	28	65
	Tractor Trailer	12	0	0	12
	Truck other	7	0	0	7
	Unknown	1	1	0	2
	Van	6	0	5	11
	Subtotal	401	32	153	586
	Aircraft	1	0	0	1
	Car	41	2	9	52
Passenger-Front	Pickup Truck	11	2	6	19
rassenger-riont	Sport Utility Vehicle	11	0	4	15
	Van	4	0	0	4
	Subtotal	68	4	19	91
	Car	20	3	3	26
	Motorcycle	1	0	1	2
Passenger-Rear	Pickup Truck	2	0	0	2
rasseligei-neai	Sport Utility Vehicle	7	1	2	10
	Van	3	0	0	3
	Subtotal	33	4	6	43
	Aircraft	1	0	0	1
	Bus	4	0	0	4
	Car	5	1	1	7
Passenger-Cargo	Motorcycle	1	0	0	1
	Sport Utility Vehicle	2	2	1	5
	Van	2	0	0	2
	Subtotal	15	3	2	20

### **Ethanol Presence**

	Ethanor resence				
		No	0.01-0.07%	≥0.08%	
Status of Decedent	Vehicle	Ethanol	W/V	W/V	Total
	Boat	0	0	1	1
	Car	3	0	1	4
	Farm equipment	1	0	0	1
Passenger-Other	Motorcycle	1	0	0	1
rassenger-Other	Pickup Truck	1	0	0	1
	Sport Utility Vehicle	2	0	1	3
	Van	2	0	0	2
	Subtotal	10	0	3	13
	Bus	1	0	0	1
	Car	33	2	14	49
	Farm equipment	2	0	0	2
	Heavy equipment	2	0	0	2
	Pickup Truck	9	0	6	15
Pedestrian	Sport Utility Vehicle	9	1	8	18
redestrian	Tractor Trailer	3	1	0	4
	Train	8	0	6	14
	Truck other	4	0	1	5
	Unknown	2	0	2	4
	Van	3	0	0	3
	Subtotal	76	4	37	117
	Car	1	1	0	2
<b>Unknown Status</b>	Unknown	3	0	0	3
	Subtotal	4	1	0	5
TOTAL		607	48	220	875

Table 33. Motor Vehicle Deaths by County of Residence, 2011

County/City of Residency	Total	Rate
Accomack	10	30.0
Albemarle	14	13.9
Alexandria	6	4.2
Alleghany	2	12.4
Amelia	4	31.2
Amherst	8	24.9
Appomattox	1	6.6
Arlington	6	2.8
Augusta	10	13.6
Bath	3	64.4
Bedford City	3	48.5
Bedford	9	13.0
Bland	0	0.0
Botetourt	7	21.3
Bristol	1	5.6
Brunswick	3	17.4
Buchanan	7	29.7
Buckingham	5	28.9
Buena Vista	0	0.0
Campbell	7	12.7
Caroline	2	7.0
Carroll	3	10.0
Charles City	3	41.4
Charlotte	4	32.0
Charlottesville	2	4.6
Chesapeake	24	10.7
Chesterfield	28	8.7
Clarke	1	7.0
Colonial Heights	2	11.5
Covington	1	16.8
Craig	0	0.0
Culpeper	7	14.7
Cumberland	0	0.0
Danville	4	9.3
Dickenson	4	25.4
Dinwiddie	3	10.7
Emporia	0	0.0
Essex	5	44.6
Fairfax City	3	13.3
Fairfax	53	4.8
Falls Church	0	0.0

County/City of Residency	Total	Rate
Fauquier	16	24.2
Floyd	4	26.0
Fluvanna	1	3.8
Franklin City	1	11.6
Franklin	5	8.9
Frederick	11	13.8
Fredericksburg	4	15.6
Galax	2	28.6
Giles	1	5.8
Gloucester	8	21.7
Goochland	1	4.6
Grayson	0	0.0
Greene	1	5.4
Greensville	1	8.3
Halifax	7	19.4
Hampton	11	8.1
Hanover	12	12.0
Harrisonburg	1	2.0
Henrico	15	4.8
Henry	12	22.3
Highland	0	0.0
Hopewell	1	4.4
Isle of Wight	5	14.1
James City	10	14.7
King and Queen	1	14.3
King George	3	12.4
King William	2	12.5
Lancaster	2	17.7
Lee	5	19.9
Lexington	0	0.0
Loudoun	10	3.1
Louisa	9	27.0
Lunenburg	2	15.5
Lynchburg	8	10.5
Madison	1	7.6
Manassas	2	5.1
Martinsville	2	14.8
Mathews	0	0.0
Mecklenburg	4	12.3
Middlesex	0	0.0
Montgomery	13	13.8

County/City of Residency	Total	Doto
Nelson	Total 5	Rate
	3	33.1
New Kent	_	15.9
Newport News	18	10.0
Norfolk	14	5.8
Northampton	1	8.1
Northumberland	3	24.1
Norton	0	0.0
Nottoway	2	12.6
Orange	6	17.7
Page	3	12.5
Patrick	4	21.8
Petersburg	3	9.3
Pittsylvania	15	23.9
Poquoson	1	8.3
Portsmouth	13	13.6
Powhatan	3	10.7
Prince Edward	2	8.6
Prince George	7	19.1
Prince William	18	4.1
Pulaski	3	8.7
Radford	1	6.1
Rappahannock	2	26.9
Richmond City	27	13.1
Richmond	3	32.5
Roanoke City	9	9.3
Roanoke	6	6.5
Rockbridge	3	13.4
Rockingham	9	11.8
Russell	4	13.9

County/City of Residency	Total	Rate
Salem	1	4.0
Scott	4	17.3
Shenandoah	7	16.6
Smyth	5	15.6
Southampton	3	16.3
Spotsylvania	16	12.9
Stafford	3	2.3
Staunton	4	16.8
Suffolk	9	10.6
Surry	1	14.4
Sussex	3	24.8
Tazewell	5	11.2
Virginia Beach	30	6.8
Warren	7	18.5
Washington	5	9.1
Waynesboro	1	4.7
Westmoreland	1	5.7
Williamsburg	0	0.0
Winchester	1	3.8
Wise	9	21.7
Wythe	3	10.3
York	9	13.6
Total in State	764	9.4
Out of Country	9	ND†
Out of State	102	ND
TOTAL	875	ND

<sup>†</sup> ND- No Denominator

# **SECTION 6: DRUG/POISON CAUSED DEATHS**

## **OVERALL DRUG/POISON DEATHS (N=818)**

The overall number of drug/poisoning cases increased significantly (18.2%) from 2010 with the highest rate (9.6 per 100,000) experienced in Virginia. Prescription drug deaths continued to rise as well as a large increase in illegal drugs, which had been decreasing for several years.

- The overall rate of drug/poison caused deaths for Virginia residents was 9.6 per 100,000 which exceeded the MVC rate of 9.4
- The majority of cases were accidents (78.7%), males (55.9%), whites (87.2%), and 45-54 year olds (29.9%)
- The Western OCME district handled one-third of all drug/poison deaths
- Illegal drugs caused 143 deaths, up 70.2% from 2010
- Whites died from prescription drugs 4.1 times more than blacks while blacks died from illegal drugs 1.4
   times that of whites

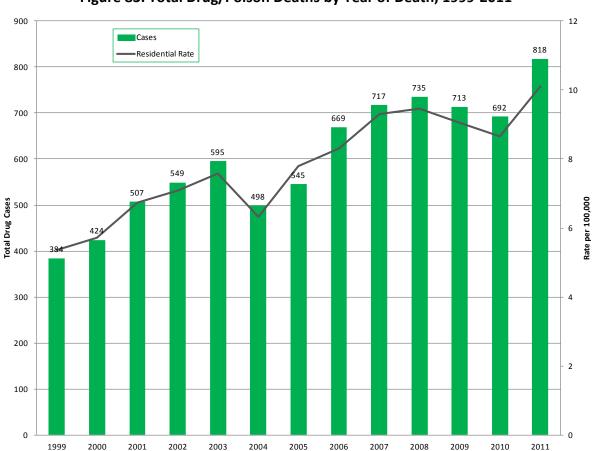
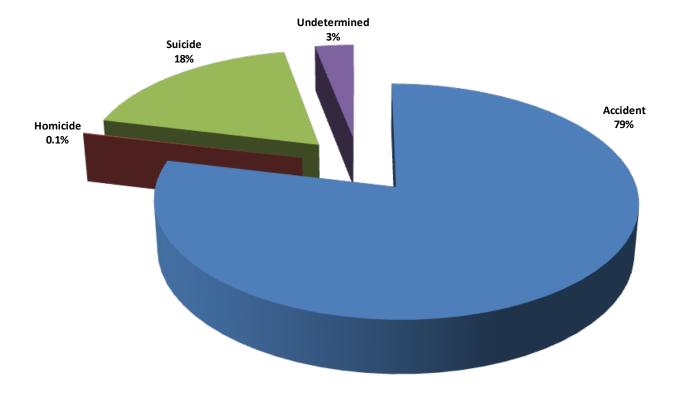


Figure 83. Total Drug/Poison Deaths by Year of Death, 1999-2011

Table 34. Drug/Poison Deaths by OCME District, 2011

<b>OCME District</b>	Cases	Percent
Central	187	22.9%
Northern	202	24.7%
Tidewater	155	18.9%
Western	274	33.5%
Total	818	100%

Figure 84. Drug/Poison Deaths by Manner, 2011



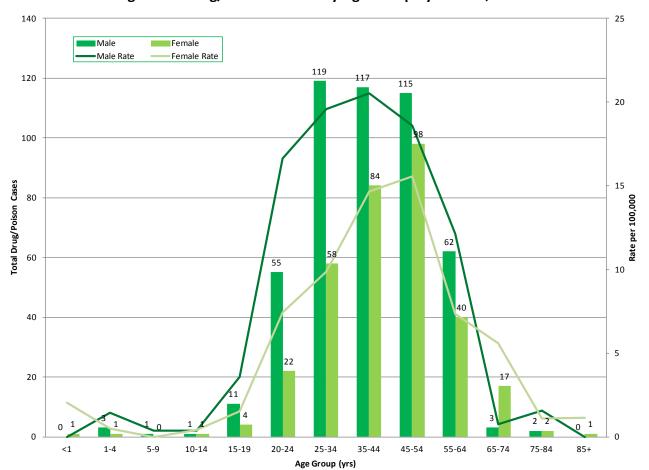


Figure 85. Drug/Poison Deaths by Age Group by Gender, 2011

Table 35. Drug/Poison Deaths by Age Group by Manner, 2011

## Manner of Death

Age Group	Accident	Homicide	Suicide	Undetermined	Total
<1	1	0	0	0	1
1-4	0	0	0	4	4
5-9	0	0	0	1	1
10-14	1	0	1	0	2
15-19	13	0	2	0	15
20-24	65	0	12	0	77
25-34	160	0	13	4	177
35-44	169	0	27	5	201
45-54	165	1	43	4	213
55-64	61	0	34	7	102
65-74	7	0	13	0	20
75-84	1	0	3	0	4
85+	1	0	0	0	1
Total	644	1	148	25	818

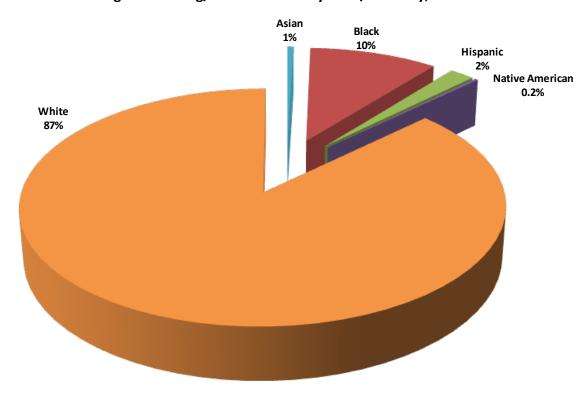


Figure 86. Drug/Poison Deaths by Race/Ethnicity, 2011

Table 36. Drug/Poison Deaths by Cause of Death by OCME District, 2011

### **District**

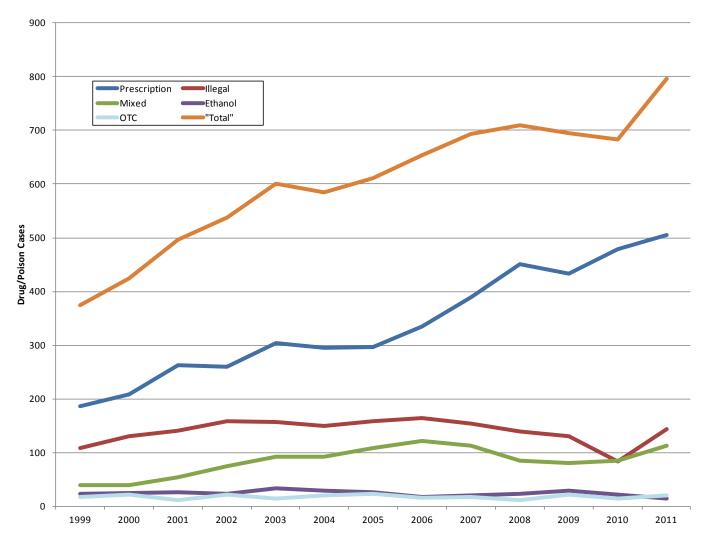
Cause of Death	Central	Northern	Tidewater	Western	Total
Ethanol Poisoning	4	7	2	2	15
Prescription Drug Poisoning	106	115	72	212	505
Illegal (Street) Drug Poisoning	50	30	41	22	143
Mixed Category Drug Poisoning	14	37	29	33	113
Inhalant Poisoning	3	1	2	0	6
OTC Poisoning	6	9	3	2	20
Ethylene Glycol Poisoning	1	1	2	0	4
Not Otherwise Specified Poisoning	0	0	2	3	5
Other Poisons (Heavy Metals, etc.)	3	2	2	0	7
Total	187	202	155	274	818

Table 37. Drug/Poison Deaths by Cause of Death by Manner, 2011

### **Manner of Death**

Cause of Death	Accident	Homicide	Suicide	Undetermined	Total
Ethanol Poisoning	13	0	2	0	15
Prescription Drug Poisoning	383	1	100	21	505
Illegal (Street) Drug Poisoning	142	0	1	0	143
Mixed Category Drug Poisoning	89	0	21	3	113
Inhalant Poisoning	6	0	0	0	6
OTC Poisoning	7	0	13	0	20
Ethylene Glycol Poisoning	0	0	3	1	4
Not Otherwise Specified Poisoning	4	0	1	0	5
Other Poisons (Heavy Metals, etc.)	0	0	7	0	7
TOTAL	644	1	148	25	818

Figure 87. Specific Type of Drug Category Deaths by Year of Death, 2011



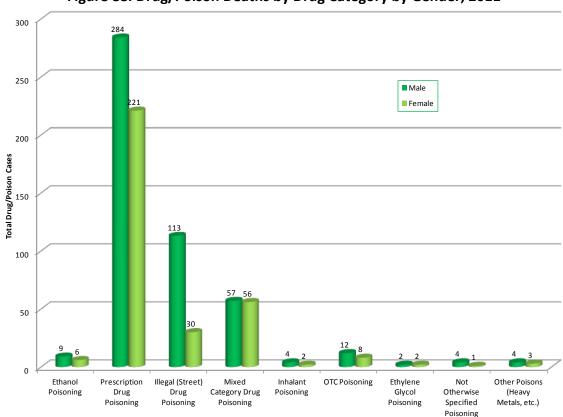
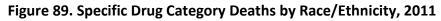
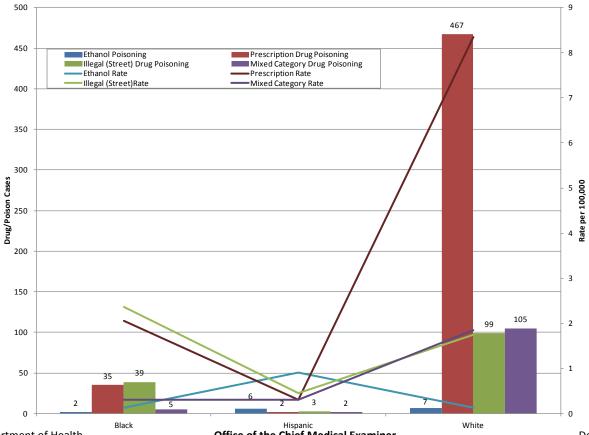


Figure 88. Drug/Poison Deaths by Drug Category by Gender, 2011





Virginia Department of Health Office of the Chief Medical Examiner December 2012

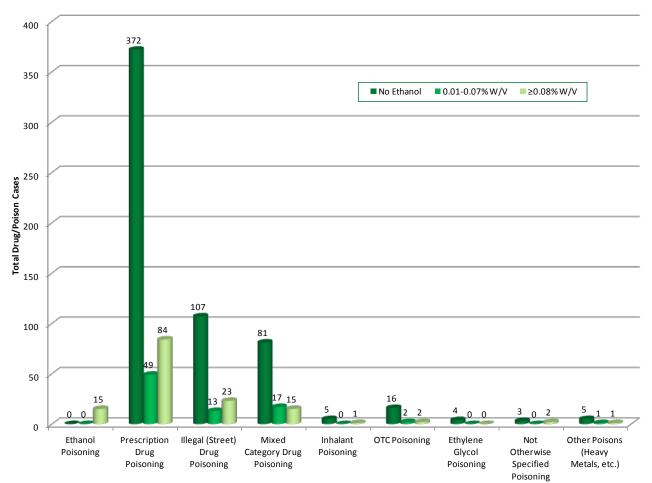


Figure 90. Specific Drug Category Deaths by Ethanol Level, 2011

Table 38. Drug/Poison Deaths by Cause of Death by Alcohol Also Causing Death, 2011

### **Alcohol Also Caused Death**

Cause of Death	Yes	No	Contributed	Total
Ethanol Poisoning	15	0	0	15
Prescription Drug Poisoning	93	29	10	132
Illegal (Street) Drug Poisoning	20	14	2	36
Mixed Category Drug Poisoning	26	6	0	32
Inhalant Poisoning	0	1	0	1
OTC Poisoning	3	1	0	4
Not Otherwise Specified Poisoning	2	0	0	2
Other Poisons (Heavy Metals, etc.)	0	2	0	2
TOTAL*	159	53	12	224

<sup>\*</sup>Total equals number of cases in which alcohol was present in decedent.

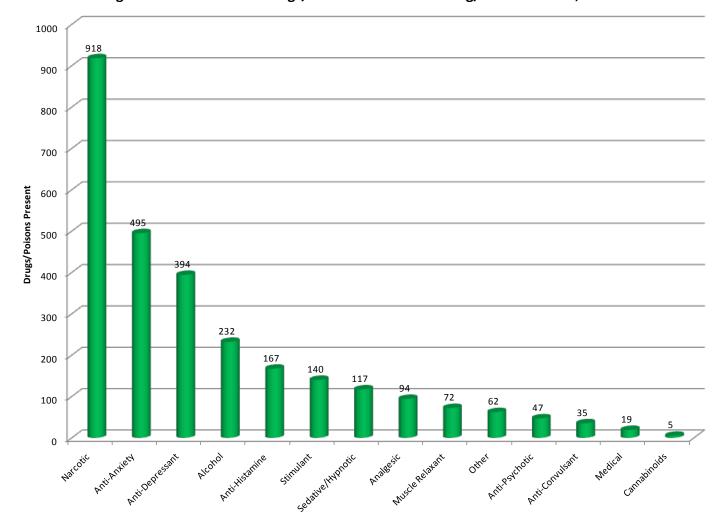


Figure 91. Classes of All Drugs/Poisons Present\* in Drug/Poison Deaths, 2011

Table 39. All Drugs/Poisons/Active Metabolites Present\* in Drug/Poison Deaths, 2011

Class	Drug/Poison/Active Metabolite	Total
Alcohol		
	ACETONE	3
	ETHANOL	225
	ISOPROPANOL	2
	METHANOL	2
	Alcohol Total	232
Analgesic		
	ACETAMINOPHEN	11
	ACETYL SALICYLIC ACID	2
	BUPIVACAINE	1
	BUPRENORPHINE	7

<sup>\*</sup>All drugs/poisons found in decedents' blood were reported regardless if they contributed to death.

Class	Drug/Poison/Active Metabolite	Total
	DEXTROMETHORPHAN	34
	IBUPROFEN	1
	KETAMINE	2
	MEPERIDINE	2
	NAPROXEN	1
	NORBUPRENORPHINE (Buprenorphine Metabolite)	5
	NORMEPERIDINE (Meperidine Metabolite)	1
	TAPENTADOL	3
	TRAMADOL	24
	Analgesic Total	94
Anti-Anxi	ety	
	ALPRAZOLAM	206
	BUSPIRONE	1
	CHLORDIAZEPOXIDE	5
	DIAZEPAM	109
	LORAZEPAM	15
	MEPROBAMATE	26
	NORDIAZEPAM (Diazepam Metabolite)	120
	OXAZEPAM	13
	Anti-Anxiety Total	495
Anti-Con	vulsant	
	CARBAMAZEPINE	8
	CLONAZEPAM	5
	GABAPENTIN	3
	LAMOTRIGINE	3
	LEVETIRACETAM	1
	MIDAZOLAM	4
	OXCARBAZEPINE	3
	PHENOBARBITAL	7
	PHENYTOIN	1
	Anti-Convulsant Total	35
Anti-Dep	ressant	
	AMITRIPTYLINE	54
	ATOMOXETINE	1
	BUPROPION (WELLBUTRIN)	31
	CITALOPRAM	85
	CLOMIPRAMINE	2
	m-CHLOROPHENYLPIPERAZINE	1
	DESIPRAMINE	3
	DOXEPIN	8
	FLUOXETINE	35

Class	Drug/Poison/Active Metabolite	Total
	HYDROXYBUPROPRION (Buproprion Metabolite)	4
	IMIPRAMINE	3
	MIRTAZAPINE	22
	NORFLUOXETINE (Fluoxetine Metabolite)	6
	NORTRIPTYLINE	52
	NORVENLAFAXINE (Venlafaxine Metabolite)	1
	PAROXETINE	9
	SERTRALINE	27
	TRAZODONE	31
	VENLAFAXINE	19
	Anti-Depressant Total	394
Anti-Hista	amine	
	BROMPHENIRAMINE	1
	CHLORPHENIRAMINE	12
	DIPHENHYDRAMINE	116
	DOXYLAMINE	26
	HYDROXYZINE	3
	MECLIZINE	2
	NORCHLORCYCLIZINE (Chlorcyclizine Metabolite)	4
	NORCLOMIPRAMINE (Clomipramine Metabolite)	1
	PHENIRAMINE	1
	ORPHENADRINE	1
	Anti-Histamine Total	167
Anti-Psyc	hotic	
	CHLORPROMAZINE	1
	CLOZAPINE	4
	HALOPERIDOL	2
	LOXAPINE	2
	OLANZAPINE	8
	QUETIAPINE	29
	ZIPRASIDONE	1
	Anti-Psychotic Total	47
Cannabin	oids	
	AM-2201	1
	TETRAHYDROCANNABINOL CARBOXYLIC ACID	4
	Cannabinoids Total	5
Medical		
	ATROPINE	4
	BENZTROPINE	1
	DILTIAZEM	3
	ETOMIDATE	1

Class	Drug/Poison/Active Metabolite	Total
	ISONIAZID	1
	MEMANTINE	1
	TILMICOSIN	1
	TRIHEXYPHENIDYL	1
	VERAPAMIL	6
	Medical Total	19
Muscle Re	laxant	
	CARISOPRODOL	20
	CYCLOBENZAPRINE	47
	METAXALONE	3
	METHOCARBAMOL	1
	PAPAVERINE	1
	Muscle Relaxant Total	72
Narcotic		
	6-ACETYLMORPHINE (Heroin Metabolite)	52
	CODEINE	60
	FENTANYL	57
	HYDROCODONE	114
	HYDROMORPHONE	24
	METHADONE	158
	MORPHINE	179
	NORPROPOXYPHENE (Propoxyphene Metabolite)	3
	OXYCODONE	177
	OXYMORPHONE	91
	PROPOXYPHENE	3
	Narcotic Total	918
Other		
	CARBOXYHEMOGLOBIN	9
	DICYCLOMINE	3
	DIFLUOROETHANE	9
	DONEPEZIL	2
	ETHYLENE GLYCOL	3
	FLUCONAZOLE	4
	LEVAMISOLE	4
	LIDOCAINE	15
	LOPERAMIDE	1
	METOCLOPRAMIDE	3
	NALOXONE	1
	PROPRANOLOL	1
	TETRAMISOLE	4

Class	Drug/Poison/Active Metabolite	Total
	TRIMETHOPRIM	1
	VOLATILE HYDROCARBONS	1
	Other Total	62
Sedative	/Hypnotic	
	BUTABARBITAL	1
	BUTALBITAL	11
	PENTOBARBITAL	1
	PROMETHAZINE	50
	PROPOFOL	1
	TEMAZEPAM	27
	ZOLPIDEM	26
	Sedative/Hypnotic Total	117
Stimulan	t	
	AMPHETAMINE	13
	CAFFEINE	2
	COCAETHYLENE	22
	COCAINE	82
	METHAMPHETAMINE	10
	METHYLENEDIOXYPYROVALERONE	3
	METHYLPHENIDATE	2
	PHENCYCLIDINE	4
	PHENTERMINE	2
	Stimulant Total	140
Total		2797

<sup>\*</sup>All drugs/poisons/active metabolites found in drug/poison deaths are reported regardless if they contributed to death.

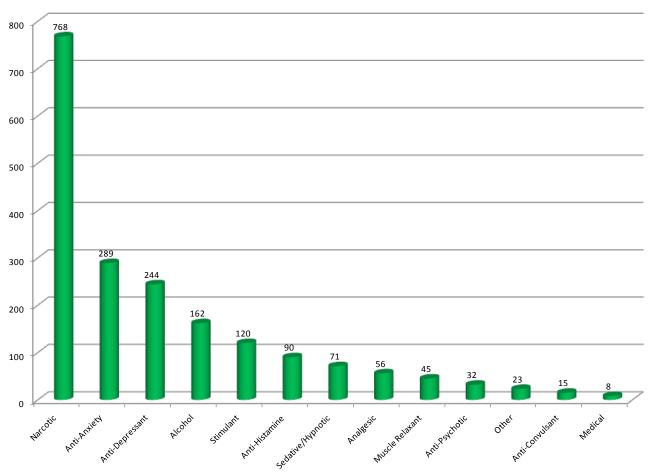


Figure 92. Classes of All Drugs/Poisons Causing Death in Drug/Poison Deaths, 2011

Table 40. Drugs/Poisons/Active Metabolites Causing Death in Drug/Poison Deaths, 2011

Class	Drug/Poison/Active Metabolite	Total
Alcohol		
	ACETONE	1
	ETHANOL	159
	ISOPROPANOL	1
	METHANOL	1
	Alcohol Total	162
Analgesic		
	ACETAMINOPHEN	6
	ACETYL SALICYLIC ACID	2
	BUPIVACAINE	1
	BUPRENORPHINE	6
	DEXTROMETHORPHAN	14
	KETAMINE	1
	NORBUPRENORPHINE (Buprenorphine Metabolite)	5
	NORMEPERIDINE (Meperidine Metabolite)	1

Class	Drug/Poison/Active Metabolite	Total
	TAPENTADOL	3
	TRAMADOL	17
	Analgesic Total	56
Anti-Anxi	iety	
	ALPRAZOLAM	144
	CHLORDIAZEPOXIDE	3
	DIAZEPAM	54
	LORAZEPAM	4
	MEPROBAMATE	18
	NORDIAZEPAM (Diazepam Metabolite)	58
	OXAZEPAM	8
	Anti-Anxiety Total	289
Anti-Con	vulsant	
	CARBAMAZEPINE	3
	CLONAZEPAM	4
	LAMOTRIGINE	1
	MIDAZOLAM	2
	OXCARBAZEPINE	2
	PHENOBARBITAL	3
	Anti-Convulsant Total	15
Anti-Dep	ressant	
	AMITRIPTYLINE	30
	ATOMOXETINE	1
	BUPROPION (WELLBUTRIN)	18
	CITALOPRAM	51
	CLOMIPRAMINE	2
	m-CHLOROPHENYLPIPERAZINE	1
	DESIPRAMINE	2
	DOXEPIN	7
	FLUOXETINE	25
	HYDROXYBUPROPRION (Buproprion Metabolite)	4
	IMIPRAMINE	3
	MIRTAZAPINE	11
	NORFLUOXETINE (Fluoxetine Metabolite)	6
	NORTRIPTYLINE	31
	PAROXETINE	7
	SERTRALINE	11
	TRAZODONE	21
	VENLAFAXINE	13
	Anti-Depressant Total	244
Anti-Hist		
	BROMPHENIRAMINE	1
	CHLORPHENIRAMINE	7

Class	Drug/Poison/Active Metabolite	Total
	DIPHENHYDRAMINE	62
	DOXYLAMINE	15
	HYDROXYZINE	1
	NORCHLORCYCLIZINE (Chlorcyclizine Metabolite)	2
	NORCLOMIPRAMINE (Clomipramine Metabolite)	1
	ORPHENADRINE	1
	Anti-Histamine Total	90
Anti-Psych	notic	
	CHLORPROMAZINE	1
	CLOZAPINE	4
	HALOPERIDOL	2
	OLANZAPINE	7
	QUETIAPINE	17
	ZIPRASIDONE	1
	Anti-Psychotic Total	32
Medical		
	BENZTROPINE	1
	DILTIAZEM	1
	ISONIAZID	1
	MEMANTINE	1
	TILMICOSIN	1
	TRIHEXYPHENIDYL	1
	VERAPAMIL	2
	Medical Total	8
Muscle Re	laxant	
	CARISOPRODOL	14
	CYCLOBENZAPRINE	29
	METAXALONE	2
	Muscle Relaxant Total	45
Narcotic		
	6-ACETYLMORPHINE (Heroin Metabolite)	36
	CODEINE	39
	FENTANYL	51
	HYDROCODONE	85
	HYDROMORPHONE	19
	METHADONE	154
	MORPHINE	163
	NORPROPOXYPHENE (Propoxyphene Metabolite)	1
	OXYCODONE (Propoxypriene Wetabolite)	146
	OXYMORPHONE	73
	PROPOXYPHENE	1
	Narcotic Total	768

Class	Drug/Poison/Active Metabolite	Total
Other		
	DICYCLOMINE	1
	DIFLUOROETHANE	9
	DONEPEZIL	1
	ETHYLENE GLYCOL	3
	LOPERAMIDE	1
	METHYLPHENIDATE	2
	METOCLOPRAMIDE	3
	PROPRANOLOL	1
	THIOSULFATE	1
	VOLATILE HYDROCARBONS	1
	Other Total	23
Sedative/	'Hypnotic	
	BUTALBITAL	6
	PENTOBARBITAL	1
	PROMETHAZINE	27
	PROPOFOL	1
	TEMAZEPAM	18
	ZOLPIDEM	18
	Sedative/Hypnotic Total	71
Stimulant	i e	
	AMPHETAMINE	10
	CAFFEINE	1
	COCAETHYLENE	16
	COCAINE	76
	METHAMPHETAMINE	9
	METHYLENEDIOXYPYROVALERONE	2
	PHENCYCLIDINE	4
	PHENTERMINE	2
	Stimulant Total	120
Total		1923

Table 41. Drug/Poison Deaths by City/County of Residence, 2011

City/County of Residence	Deaths	Rate
Accomack	3	9.0
Albemarle	4	4.0
Alexandria	10	6.9
Alleghany	0	0.0
Amelia	0	0.0
Amherst	3	9.3
Appomattox	1	6.6
Arlington	10	4.6
Augusta	10	13.6
Bath	1	21.5
Bedford City	0	0.0
Bedford	8	11.6
Bland	3	44.0
Botetourt	2	6.1
Bristol	4	22.5
Brunswick	0	0.0
Buchanan	9	38.2
Buckingham	0	0.0
Buena Vista	1	15.1
Campbell	3	5.5
Caroline	2	7.0
Carroll	0	0.0
Charles City	2	27.6
Charlotte	1	8.0
Charlottesville	0	0.0
Chesapeake	16	7.1
Chesterfield	28	8.7
Clarke	1	7.0
Colonial Heights	3	17.2
Covington	1	16.8
Craig	0	0.0
Culpeper	3	6.3
Cumberland	0	0.0
Danville	8	18.7
Dickenson	9	57.2
Dinwiddie	2	7.2
Emporia	0	0.0
Essex	2	17.8
Fairfax City	1	4.4

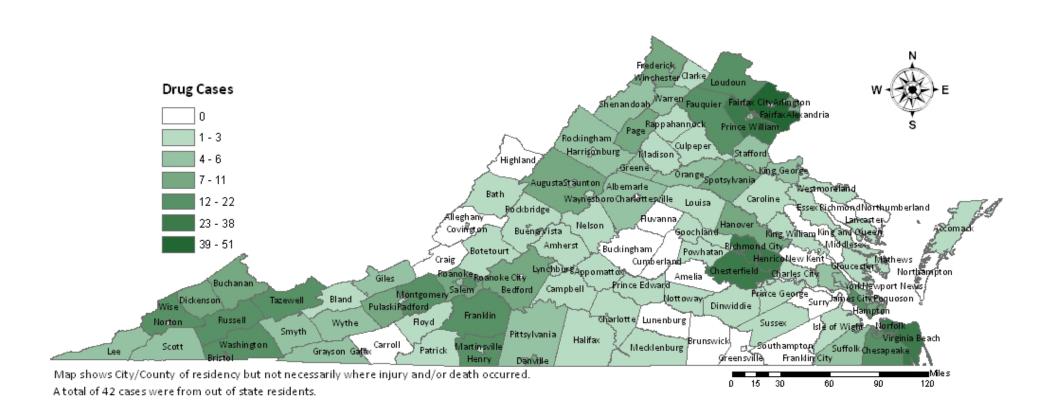
City/County of Posidones	Dooths	Data
City/County of Residence	Deaths	Rate
Fairfax Falls Church	51	4.6
	2	15.7
Fauquier	12	18.2
Floyd	1	6.5
Fluvanna	0	0.0
Franklin City	0	0.0
Franklin	13	23.0
Frederick	8	10.0
Fredericksburg	3	11.7
Galax	2	28.6
Giles	4	23.4
Gloucester	3	8.1
Goochland	1	4.6
Grayson	4	26.1
Greene	4	21.4
Greensville	0	0.0
Halifax	2	5.5
Hampton	11	8.1
Hanover	9	9.0
Harrisonburg	1	2.0
Henrico	38	12.2
Henry	13	24.2
Highland	0	0.0
Hopewell	3	13.3
Isle of Wight	1	2.8
James City	6	8.8
King and Queen	0	0.0
King George	4	16.6
King William	1	6.3
Lancaster	2	17.7
Lee	5	19.9
Lexington	1	14.3
Loudoun	16	4.9
Louisa	2	6.0
Lunenburg	0	0.0
Lynchburg	3	3.9
Madison	3	22.8
Manassas	6	15.3
Martinsville	1	7.4

City/County of Residence	Deaths	Rate
Mathews	1	11.2
Mecklenburg	3	9.2
Middlesex	1	9.2
Montgomery	13	13.8
Nelson	1	6.6
New Kent	0	0.0
Newport News	14	7.8
Norfolk	33	13.6
Northampton	0	0.0
Northumberland	0	0.0
Norton	1	24.7
Nottoway	2	12.6
Orange	4	11.8
Page	9	37.6
Patrick	1	5.4
Petersburg	1	3.1
Pittsylvania	6	9.5
Poquoson	1	8.3
Portsmouth	14	14.6
Powhatan	2	7.1
Prince Edward	1	4.3
Prince George	2	5.5
Prince William	29	6.7
Pulaski	10	28.9
Radford	1	6.1
Rappahannock	2	26.9
Richmond City	34	16.5
Richmond	0	0.0
Roanoke City	16	16.5
Roanoke	8	8.6

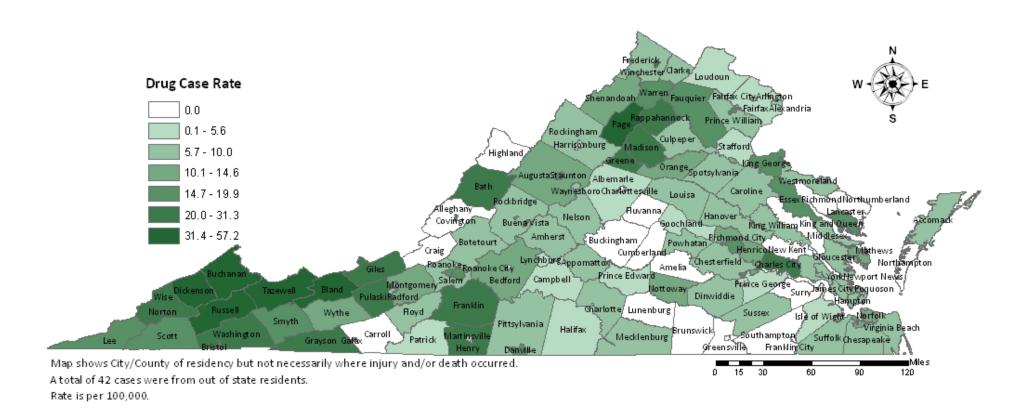
City/County of Residence	Deaths	Rate
Rockbridge	2	8.9
Rockingham	5	6.5
Russell	14	48.7
Salem	4	16.0
Scott	4	17.3
Shenandoah	6	14.2
Smyth	5	15.6
Southampton	0	0.0
Spotsylvania	11	8.8
Stafford	6	4.5
Staunton	4	16.8
Suffolk	6	7.1
Surry	0	0.0
Sussex	1	8.3
Tazewell	22	49.2
Virginia Beach	38	8.6
Warren	6	15.9
Washington	13	23.7
Waynesboro	2	9.4
Westmoreland	1	5.7
Williamsburg	1	6.9
Winchester	6	22.6
Wise	13	31.3
Wythe	4	13.7
York	5	7.6
Total in State	776	9.6
Out of State	42	ND*
TOTAL	818	ND

<sup>\*</sup>ND-No denominator

Figure 93. Drug/Poison Deaths by City/County of Residence, 2011







## FENTANYL, HYDROCODONE, METHADONE & OXYCODONE DEATHS (N=394)

Prescription drug deaths are significant causes of injury and death in Virginia accounting for at least 61.7% of all drug/poison deaths. Fentanyl, hydrocodone, methadone, and oxycodone (FHMO) were found to be partly or wholly responsible for 48.2% of drug only deaths. [NOTE: The FHMO tables and figures represent deaths in which one or a combination of the FHMO drugs caused death; but other drugs/poisons may also have caused death.] Next year this section may be expanded to include oxymorphone and alprazolam as their impacts are being increasingly felt.

- Ninety-three percent of FHMO deaths were white and 58.6% were male
- Oxycodone again exceeded methadone in the number of FHMO deaths it has caused, 163 versus 155, respectively; this even with the reformulation of Oxycontin®
- The western portion of the state had 40.1% of all the FHMO cases

900 800 All Drugs/Poisons Prescription Drugs

Figure 95. Comparison of FHMO, Prescription and All Drug Deaths by Year of Death, 1999-2011

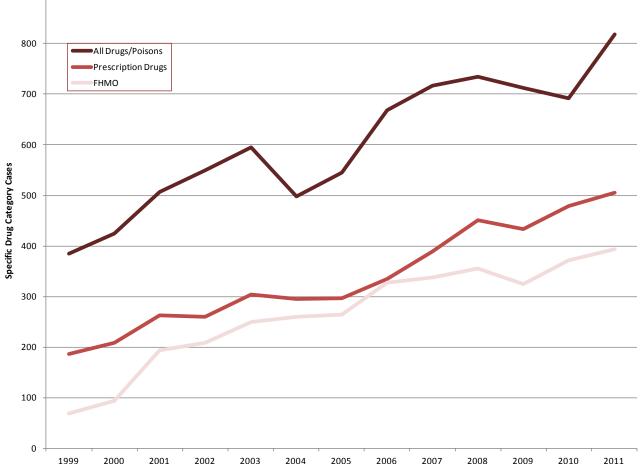


Table 42. FHMO Combination Deaths, 2011

FHMO Combination	Total
Oxycodone	122
Methadone	117
Fentanyl	38
Hydrocodone	58
Oxycodone & Methadone	21
Oxycodone & Fentanyl	5
Oxycodone & Hydrocodone	11
Methadone & Fentanyl	5
Methadone & Hydrocodone	9
Fentanyl & Hydrocodone	4
Oxycodone, Fentanyl & Hydrocodone	1
Oxycodone, Methadone & Hydrocodone	2
Oxycodone, Methadone & Fentanyl	1
FHMO Subtotal	394
Non-FHMO Drug/Poison Combinations	424
Total	818

Table 43. FHMO Combination Deaths by District, 2011

## **District**

FHMO Combination	Central	Northern	Tidewater	Western	Total
Oxycodone	21	50	18	33	122
Methadone	35	17	20	45	117
Fentanyl	10	5	9	14	38
Hydrocodone	3	10	10	35	58
Oxycodone & Methadone	3	7	4	7	21
Oxycodone & Fentanyl	1	0	3	1	5
Oxycodone & Hydrocodone	0	1	0	10	11
Methadone & Fentanyl	0	1	0	4	5
Methadone & Hydrocodone	0	2	0	7	9
Fentanyl & Hydrocodone	1	3	0	0	4
Oxycodone, Fentanyl & Hydrocodone	0	1	0	0	1
Oxycodone, Methadone & Hydrocodone	0	0	0	2	2
Oxycodone, Methadone & Fentanyl	0	1	0	0	1
Total	74	98	64	158	394

Table 44. FHMO Combination Deaths by Race/Ethnicity, 2011

## Race/Ethnicity

nuocy _ minorcy					
			Native		
FHMO Combination	Black	Hispanic	American	White	Total
Oxycodone	5	0	0	117	122
Methadone	12	1	0	104	117
Fentanyl	3	0	0	35	38
Hydrocodone	2	0	0	56	58
Oxycodone & Methadone	1	1	0	19	21
Oxycodone & Fentanyl	0	0	1	4	5
Oxycodone & Hydrocodone	1	0	0	10	11
Methadone & Fentanyl	0	0	0	5	5
Methadone & Hydrocodone	0	1	0	8	9
Fentanyl & Hydrocodone	1	0	0	3	4
Oxycodone, Fentanyl & Hydrocodone	0	0	0	1	1
Oxycodone, Methadone & Hydrocodone	0	0	0	2	2
Oxycodone, Methadone & Fentanyl	0	0	0	1	1
Total	25	3	1	365	394

Table 45. FHMO Combination Deaths by Gender, 2011

## Gender

FHMO Combination	Male	Female
Oxycodone	75	47
Methadone	74	43
Fentanyl	23	15
Hydrocodone	23	35
Oxycodone & Methadone	14	7
Oxycodone & Fentanyl	2	3
Oxycodone & Hydrocodone	7	4
Methadone & Fentanyl	4	1
Methadone & Hydrocodone	5	4
Fentanyl & Hydrocodone	2	2
Oxycodone, Fentanyl & Hydrocodone	0	1
Oxycodone, Methadone & Hydrocodone	2	0
Oxycodone, Methadone & Fentanyl	0	1
Total	231	163

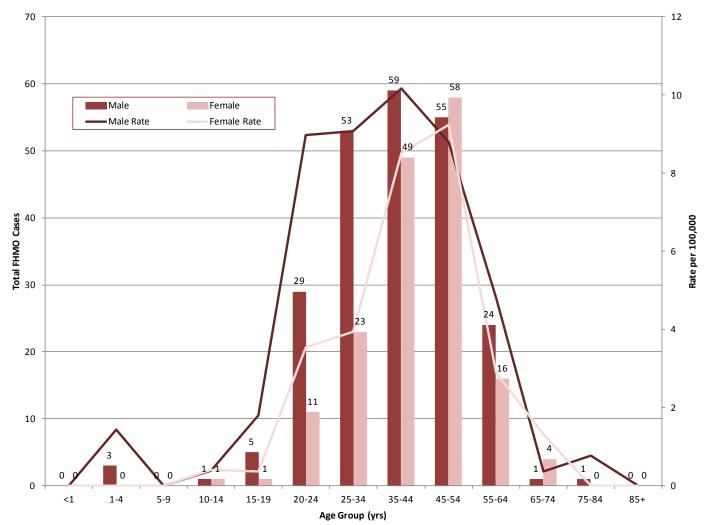


Figure 96. FHMO Deaths by Age Group, 2011

Table 46. FHMO Combination Deaths by Alcohol Also Caused Death, 2011

Alcohol Caused Death

,•	onor caasca	<del>- Catil</del>	
Yes	No	Contributed	Total
25	6	0	31
15	6	2	23
4	3	1	8
12	2	1	15
4	0	0	4
1	0	0	1
1	1	0	2
1	0	0	1
1	1	0	2
64	19	4	87
	Yes  25 15 4 12 4 1 1 1	Yes         No           25         6           15         6           4         3           12         2           4         0           1         0           1         1           1         0           1         1           1         1           1         1	25       6       0         15       6       2         4       3       1         12       2       1         4       0       0         1       0       0         1       1       0         1       0       0         1       0       0         1       1       0         1       0       0         1       1       0

<sup>\*</sup>Total equals number of cases in which alcohol was present in decedent.

Table 47. FHMO Deaths & Rates by City/County of Residence, 2011

City/County of Residence	Deaths	Rate
Accomack	1	3.0
Albemarle	2	2.0
Alexandria	6	4.2
Alleghany	0	0.0
Amelia	0	0.0
Amherst	1	3.1
Appomattox	0	0.0
Arlington	4	1.9
Augusta	6	8.2
Bath	0	0.0
Bedford City	0	0.0
Bedford	4	5.8
Bland	2	29.3
Botetourt	1	3.0
Bristol	3	16.9
Brunswick	0	0.0
Buchanan	6	25.4
Buckingham	0	0.0
Buena Vista	0	0.0
Campbell	1	1.8
Caroline	1	3.5
Carroll	0	0.0
Charles City	1	13.8
Charlotte	0	0.0
Charlottesville	0	0.0
Chesapeake	8	3.6
Chesterfield	9	2.8
Clarke	0	0.0
Colonial Heights	1	5.7
Covington	1	16.8
Craig	0	0.0
Culpeper	3	6.3
Cumberland	0	0.0
Danville	2	4.7
Dickenson	7	44.5
Dinwiddie	1	3.6
Emporia	0	0.0
Essex	0	0.0

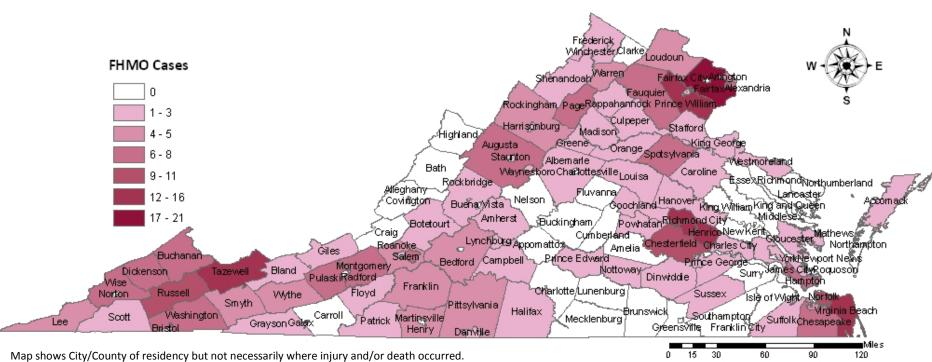
City/County of Residence	Deaths	Rate
Fairfax City	0	0.0
Fairfax	21	1.9
Falls Church	0	0.0
Fauquier	7	10.6
Floyd	1	6.5
Fluvanna	0	0.0
Franklin City	0	0.0
Franklin	4	7.1
Frederick	2	2.5
Fredericksburg	1	3.9
Galax	1	14.3
Giles	2	11.7
Gloucester	1	2.7
Goochland	1	4.6
Grayson	1	6.5
Greene	2	10.7
Greensville	0	0.0
Halifax	1	2.8
Hampton	7	5.1
Hanover	2	2.0
Harrisonburg	1	2.0
Henrico	16	5.2
Henry	5	9.3
Highland	0	0.0
Hopewell	0	0.0
Isle of Wight	0	0.0
James City	3	4.4
King and Queen	0	0.0
King George	3	12.4
King William	0	0.0
Lancaster	0	0.0
Lee	4	15.9
Lexington	0	0.0
Loudoun	5	1.5
Louisa	1	3.0
Lunenburg	0	0.0
Lynchburg	2	2.6
Madison	3	22.8

City/County of Residence	Deaths	Rate
Manassas	3	7.6
Martinsville	0	0.0
Mathews	1	11.2
Mecklenburg	0	0.0
Middlesex	0	0.0
Montgomery	8	8.5
Nelson	0	0.0
New Kent	0	0.0
Newport News	7	3.9
Norfolk	10	4.1
Northampton	0	0.0
Northumberland	0	0.0
Norton	0	0.0
Nottoway	2	12.6
Orange	3	8.8
Page	7	29.2
Patrick	1	5.4
Petersburg	1	3.1
Pittsylvania	5	8.0
Poquoson	0	0.0
Portsmouth	5	5.2
Powhatan	2	7.1
Prince Edward	1	4.3
Prince George	2	5.5
Prince William	13	3.0
Pulaski	7	20.2
Radford	0	0.0
Rappahannock	2	26.9
Richmond City	14	6.8
Richmond	0	0.0
Roanoke City	8	8.3

City/County of Residence	Deaths	Rate
Roanoke	5	5.4
Rockbridge	1	4.5
Rockingham	4	5.2
Russell	11	38.3
Salem	2	8.0
Scott	3	13.0
Shenandoah	3	7.1
Smyth	4	12.5
Southampton	0	0.0
Spotsylvania	6	4.8
Stafford	1	0.8
Staunton	1	4.2
Suffolk	1	1.2
Surry	0	0.0
Sussex	1	8.3
Tazewell	16	35.8
Virginia Beach	16	3.6
Warren	4	10.6
Washington	7	12.8
Waynesboro	1	4.7
Westmoreland	1	5.7
Williamsburg	0	0.0
Winchester	3	11.3
Wise	8	19.2
Wythe	4	13.7
York	3	4.5
Total in State	376	4.6
Out of State	18	ND*
TOTAL	394	ND

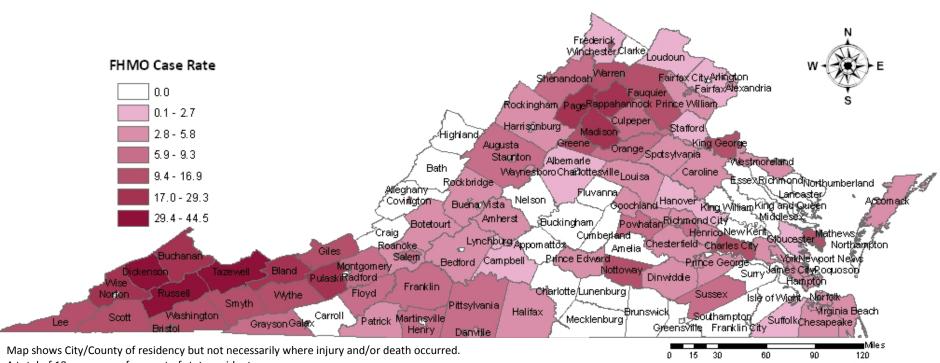
<sup>\*</sup>ND-No denominator





A total of 18 cases were from out of state residents.

Figure 98. FHMO Death Rates by City/County of Residence, 2011



A total of 18 cases were from out of state residents.

Rate is per 100,000.

## **COCAINE & HEROIN DEATHS (N=199)**

Cocaine and heroin are not the only illegal drugs used in Virginia; however, they are the main compounds found in deaths by illegal drugs. Additionally, heroin deaths are typically underestimated because heroin is very rapidly metabolized into morphine. Therefore, without known heroin history, circumstances, and/or the presence of a specific heroin metabolite; heroin cases may be missed. [NOTE: Cocaine & heroin tables and figures represent deaths in which one or both illegal drugs caused death; but other drugs/poisons also may have caused death.]

- Approximately 75% of the cases were from males
- Cocaine and/or heroin were involved in 24.3% of all drug/poison cases
- The Tidewater and Central OCME districts had the greatest amount of cases (30.2% each)

Table 48. Cocaine & Heroin Combination Deaths, 2011

<b>Cocaine &amp; Heroin Combinations</b>	Total
Cocaine	90
Heroin	87
Cocaine & Heroin	22
Subtotal	199
Non-Cocaine or Heroin	619
Drugs/Poisons	019
Total	818

Table 49. Cocaine & Heroin Combination Deaths by District, 2011

**District** 

<b>Drug Combination</b>	Central	Northern	Tidewater	Western
Cocaine	21	22	25	22
Heroin	31	22	30	4
Cocaine & Heroin	8	8	5	1
Total	60	52	60	27

Table 50. Cocaine & Heroin Combination Deaths by Race/Ethnicity, 2011

Race/Ethnicity

				Native	
<b>Drug Combination</b>	Asian	Black	Hispanic	American	White
Cocaine	0	25	1	1	63
Heroin	1	13	1	0	72
Cocaine & Heroin	1	4	1	0	16
Total	2	42	3	1	151

Table 51. Cocaine & Heroin Combination Deaths by Gender, 2011

Gender **Drug Combination** Male **Female** Cocaine 66 24 Heroin 64 23 Cocaine & Heroin 18 4 **Total** 51 148

Figure 99. Cocaine & Heroin Combination Deaths by Age Group, 2011

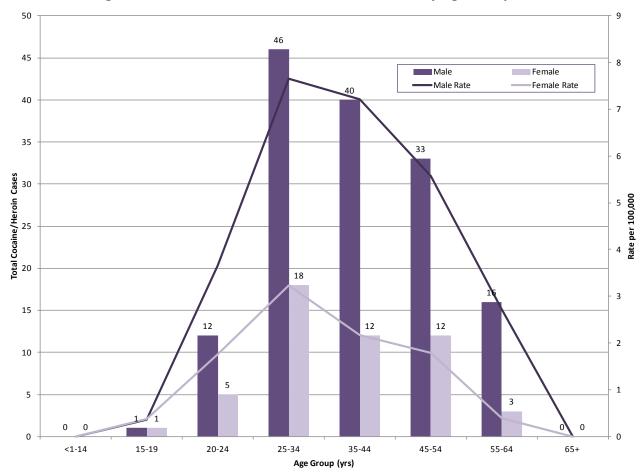


Table 52. Cocaine & Heroin Combination Deaths by Alcohol Also Causing Death, 2011

## **Alcohol Caused Death**

<b>Drug Combination</b>	Yes	No	Contributed	Total
Cocaine	14	6	0	20
Heroin	17	9	1	27
Cocaine & Heroin	4	2	1	7
Total	35	17	2	54

<sup>\*</sup>Total equals number of cases in which alcohol was present in decedent.

Table 53. Cocaine & Heroin Combination Deaths by City/County, 2011

City/County of Residence	Deaths	Rate
Accomack	1	3.0
Albemarle	1	1.0
Alexandria	1	0.7
Alleghany	0	0.0
Amelia	0	0.0
Amherst	1	3.1
Appomattox	0	0.0
Arlington	1	0.5
Augusta	0	0.0
Bath	0	0.0
Bedford City	0	0.0
Bedford	1	1.4
Bland	0	0.0
Botetourt	0	0.0
Bristol	0	0.0
Brunswick	0	0.0
Buchanan	0	0.0
Buckingham	0	0.0
Buena Vista	0	0.0
Campbell	0	0.0
Caroline	0	0.0
Carroll	0	0.0
Charles City	0	0.0
Charlotte	0	0.0
Charlottesville	0	0.0
Chesapeake	5	2.2
Chesterfield	9	2.8
Clarke	1	7.0
Colonial Heights	1	5.7
Covington	0	0.0

City/County of Residence	Deaths	Rate
Craig	0	0.0
Culpeper	2	4.2
Cumberland	0	0.0
Danville	4	9.3
Dickenson	0	0.0
Dinwiddie	0	0.0
Emporia	0	0.0
Essex	1	8.9
Fairfax City	0	0.0
Fairfax	15	1.4
Falls Church	0	0.0
Fauquier	2	3.0
Floyd	0	0.0
Fluvanna	0	0.0
Franklin City	0	0.0
Franklin	3	5.3
Frederick	5	6.3
Fredericksburg	0	0.0
Galax	0	0.0
Giles	0	0.0
Gloucester	1	2.7
Goochland	0	0.0
Grayson	0	0.0
Greene	0	0.0
Greensville	0	0.0
Halifax	1	2.8
Hampton	4	2.9
Hanover	3	3.0
Harrisonburg	0	0.0
Henrico	15	4.8

Henry         4         7.4           Highland         0         0.0           Hopewell         2         8.9           Isle of Wight         0         0.0           James City         3         4.4           King and Queen         0         0.0           King George         0         0.0           King William         1         6.3           Lancaster         1         8.9           Lee         0         0.0           Lexington         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0	City/County of Residence	Deaths	Rate
Hopewell	Henry	4	7.4
Isle of Wight       0       0.0         James City       3       4.4         King and Queen       0       0.0         King George       0       0.0         King William       1       6.3         Lancaster       1       8.9         Lee       0       0.0         Lexington       0       0.0         Loudoun       1       0.3         Louisa       0       0.0         Lunenburg       0       0.0         Lynchburg       1       1.3         Madison       2       15.2         Manassas       3       7.6         Martinsville       0       0.0         Mecklenburg       2       6.1         Middlesex       0       0.0         Montgomery       2       2.1         Nelson       1       6.6         New Kent       0       0.0         Newport News       5       2.8         Norfolk       17       7.0         Northampton       0       0.0         Northampton       0       0.0         Norton       0       0.0         Page <td>Highland</td> <td>0</td> <td>0.0</td>	Highland	0	0.0
James City         3         4.4           King and Queen         0         0.0           King George         0         0.0           King William         1         6.3           Lancaster         1         8.9           Lee         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Norton         0         0.0           Norton         0         0.0	Hopewell	2	8.9
King and Queen         0         0.0           King George         0         0.0           King William         1         6.3           Lancaster         1         8.9           Lee         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           New Kent         0         0.0           New Kent         0         0.0           Nortolk         17         7.0           Northampton         0         0.0           Northon         0         0.0           Norton         0         0.0           Norton         0         0.0           Page         0         0.0	Isle of Wight	0	0.0
King George         0         0.0           King William         1         6.3           Lancaster         1         8.9           Lee         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northampton         0         0.0           Norton         0         0.0           Norton         0         0.0           Page         0         0.0	James City	3	4.4
King William       1       6.3         Lancaster       1       8.9         Lee       0       0.0         Lexington       0       0.0         Louisa       0       0.0         Louisa       0       0.0         Lunenburg       0       0.0         Lynchburg       1       1.3         Madison       2       15.2         Manassas       3       7.6         Martinsville       0       0.0         Mathews       0       0.0         Meklenburg       2       6.1         Middlesex       0       0.0         Montgomery       2       2.1         Nelson       1       6.6         New Kent       0       0.0         Newport News       5       2.8         Norfolk       17       7.0         Northampton       0       0.0         Norton       0       0.0         Norton       0       0.0         Norton       0       0.0         Page       0       0.0         Page       0       0.0         Petersburg       0 <td< td=""><td>King and Queen</td><td>0</td><td>0.0</td></td<>	King and Queen	0	0.0
Lancaster         1         8.9           Lee         0         0.0           Lexington         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Meklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northampton         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Page         0         0.0	King George	0	0.0
Lee         0         0.0           Lexington         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northampton         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Page         0         0.0	King William	1	6.3
Lexington         0         0.0           Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Meklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northampton         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Page         0         0.0           Page         0         0.0	Lancaster	1	8.9
Loudoun         1         0.3           Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Norton         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0 </td <td>Lee</td> <td>0</td> <td>0.0</td>	Lee	0	0.0
Louisa         0         0.0           Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pottsylvania         0         0.0           Pottsmouth         7 <td< td=""><td>Lexington</td><td>0</td><td>0.0</td></td<>	Lexington	0	0.0
Lunenburg         0         0.0           Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pottsylvania         0         0.0           Pottsmouth         7         7.3           Powhatan         0         <	Loudoun	1	0.3
Lynchburg         1         1.3           Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Page         0         0.0           Page         0         0.0           Petersburg         0         0.0           Petersburg         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Louisa	0	0.0
Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Nottoway         0         0.0           Page         0         0.0           Page         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Lunenburg	0	0.0
Madison         2         15.2           Manassas         3         7.6           Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Nottoway         0         0.0           Page         0         0.0           Page         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		1	1.3
Martinsville         0         0.0           Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Potusoon         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Madison	2	15.2
Mathews         0         0.0           Mecklenburg         2         6.1           Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Page         0         0.0           Page         0         0.0           Petersburg         0         0.0           Petersburg         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Manassas	3	7.6
Mecklenburg       2       6.1         Middlesex       0       0.0         Montgomery       2       2.1         Nelson       1       6.6         New Kent       0       0.0         Newport News       5       2.8         Norfolk       17       7.0         Northampton       0       0.0         Northumberland       0       0.0         Norton       0       0.0         Nottoway       0       0.0         Page       0       0.0         Page       0       0.0         Petersburg       0       0.0         Pittsylvania       0       0.0         Poquoson       1       8.3         Portsmouth       7       7.3         Powhatan       0       0.0	Martinsville	0	0.0
Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Mathews	0	0.0
Middlesex         0         0.0           Montgomery         2         2.1           Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Page         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Mecklenburg	2	6.1
Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		0	0.0
Nelson         1         6.6           New Kent         0         0.0           Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Montgomery	2	2.1
Newport News         5         2.8           Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		1	6.6
Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	New Kent	0	0.0
Norfolk         17         7.0           Northampton         0         0.0           Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Newport News	5	2.8
Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		17	7.0
Northumberland         0         0.0           Norton         0         0.0           Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Northampton	0	0.0
Nottoway         0         0.0           Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	-	0	0.0
Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Norton	0	0.0
Orange         0         0.0           Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Nottoway	0	0.0
Page         0         0.0           Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	•	0	0.0
Patrick         0         0.0           Petersburg         0         0.0           Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		0	0.0
Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		0	0.0
Pittsylvania         0         0.0           Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0	Petersburg	0	0.0
Poquoson         1         8.3           Portsmouth         7         7.3           Powhatan         0         0.0		0	0.0
Portsmouth 7 7.3 Powhatan 0 0.0		1	
Powhatan 0 0.0	•	7	
Prince Edward 0 0.0	Powhatan	0	0.0
	Prince Edward	0	

City/County of Residence	Deaths	Rate
Prince George	0	0.0
Prince William	12	2.8
Pulaski	2	5.8
Radford	1	6.1
Rappahannock	0	0.0
Richmond City	17	8.3
Richmond	0	0.0
Roanoke City	4	4.1
Roanoke	0	0.0
Rockbridge	0	0.0
Rockingham	0	0.0
Russell	0	0.0
Salem	1	4.0
Scott	0	0.0
Shenandoah	2	4.7
Smyth	0	0.0
Southampton	0	0.0
Spotsylvania	2	1.6
Stafford	0	0.0
Staunton	0	0.0
Suffolk	4	4.7
Surry	0	0.0
Sussex	0	0.0
Tazewell	1	2.2
Virginia Beach	10	2.3
Warren	1	2.6
Washington	0	0.0
Waynesboro	0	0.0
Westmoreland	0	0.0
Williamsburg	0	0.0
Winchester	1	3.8
Wise	0	0.0
Wythe	0	0.0
York	0	0.0
Total in State	189	2.3
Out of State	10	ND*
TOTAL	199	ND

<sup>\*</sup>ND-No denominator

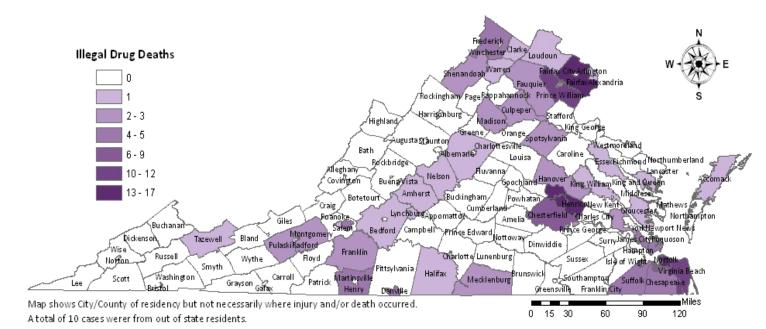
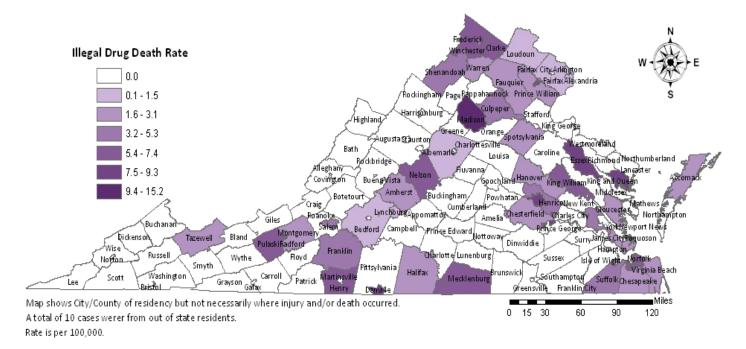


Figure 100. Cocaine & Heroin Deaths by City/County of Residence, 2011



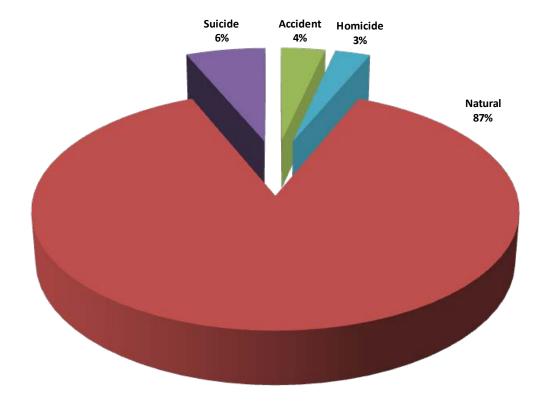


## **SECTION 7: IN CUSTODY (PRISONER) POPULATION (N=143)**

Pursuant to § 32.1-283 of the Code of Virginia, the OCME investigates deaths of persons in jail, prison, or other correctional institution, or in police custody. The OCME took jurisdiction of 143 prisoners in 2011.

- The majority (87.4%) of prisoner cases were natural
- The vast majority of cases were male (88.8%) and white (53.8%)

Figure 102. Prisoner Deaths by Manner, 2011



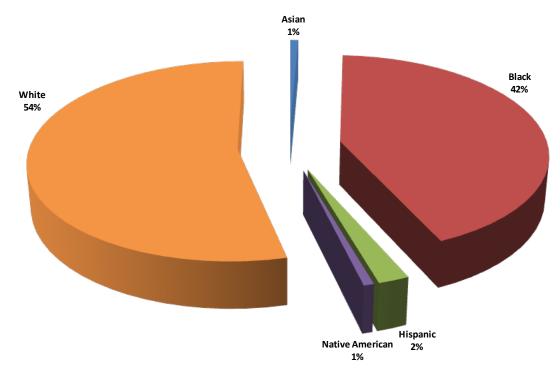
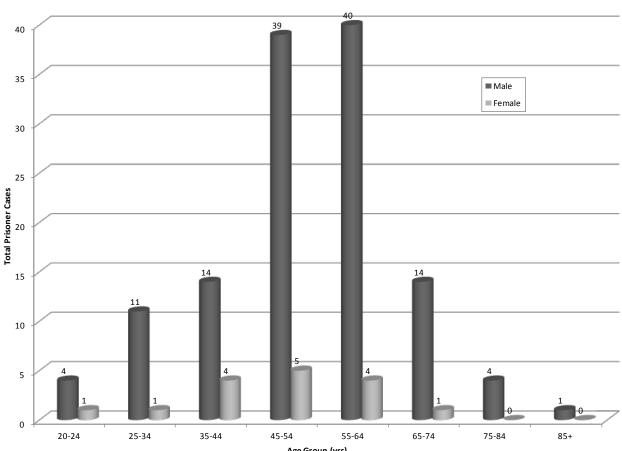


Figure 103. Prisoner Deaths by Race/Ethnicity, 2011





Virginia Department of Health

Office of the Chief Medical Examiner

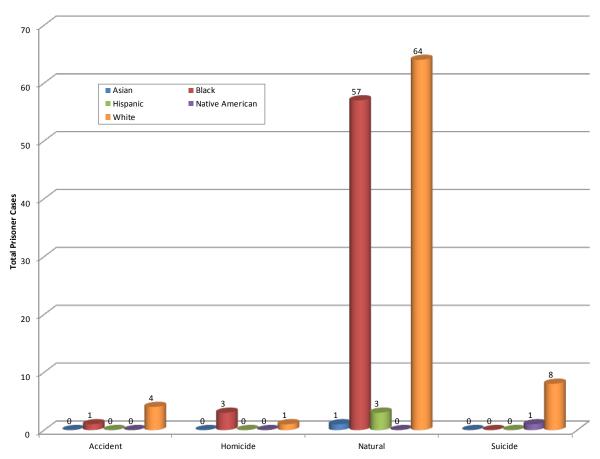


Figure 105. Prisoner Deaths by Manner by Race/Ethnicity, 2011

Table 54. Prisoner Deaths by Cause of Death, 2011

Natural Deaths	<b>Total Cases</b>	Autopsied
Pulmonary Diseases/Disorders	26	18
Asthma	2	2
COPD	4	3
Emboli	2	2
Pneumonia	3	2
Pulmonary Malignancy	13	8
Other Pulmonary Disease/Disorder	2	1
Central Nervous System Diseases/Disorders	9	3
Seizure Disorder	2	2
Vascular Disease	4	0
Meningitis (Bacterial or Viral)	1	1
CNS Malignancy	1	0
Other CNS Disease/Disorder	1	0
Cardiovascular Diseases/Disorders	33	26
Atherosclerosis	16	13
Hypertension	8	5

	Atherosclerosis & Hypertension	6	5
	Cardiac Dysrhythmia of Undetermined Etiology	2	2
	Cardiomyopathy NOS	1	1
Gastrointestinal Dise		37	20
	GI Hemorrhage	2	2
	Cirrhosis	5	3
	Hepatitis	9	4
	GI Malignancy	15	9
	Other GI Disease/Disorder	6	2
Genitourinal Disease		7	2
	Renal Disease	4	1
	Genitourinal Malignancy	3	1
Systemic Diseases/Disorders		11	5
-,,-	Blood Disorders	2	2
	Diabetes	1	1
	AIDS/HIV	2	0
	Sepsis	3	1
	Metastatic Malignancy Unknown Primary	1	1
	Chronic Alcoholism	1	0
	Other Systemic Disease/Disorder	1	0
Other Natural Diseas		2	1
	Other Malignancy	2	1
Natural Subtotal	<u> </u>	125	75
<b>Unnatural Deaths</b>		Total Cases	Autopsied
Asphyxia		11	11
	Choking (Aspiration: Food or Foreign Object)	1	1
	Hanging	9	9
	Strangulation/Neck Compression	1	1
Blunt Force Injuries		2	2
•	Head/Neck	2	2
Drug Abuse	·	3	3
J	Ingested and/or injected illicit, prescription, and/or		
	other type of drug	3	3
Exposure		1	0
	Exposed to heat	1	0
<b>Judicial Execution</b>		1	1
Judicial Execution	Lethal Injection	1 1	1
Judicial Execution  Unnatural Subtotal	Lethal Injection		

# SECTION 9: STATE MENTAL HEALTH CASES (N=80)

Pursuant to § 32.1-283 of the Code of Virginia, the OCME investigates the death of any patient or resident of a state mental health facility. The OCME took jurisdiction of 80 state mental health residents.

The majority of state mental health cases were natural (87.5%), white (73.8%) and male (61.3%)

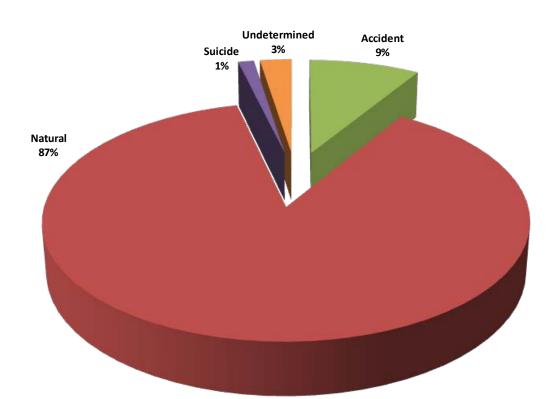


Figure 106. State Mental Health Deaths by Manner, 2011

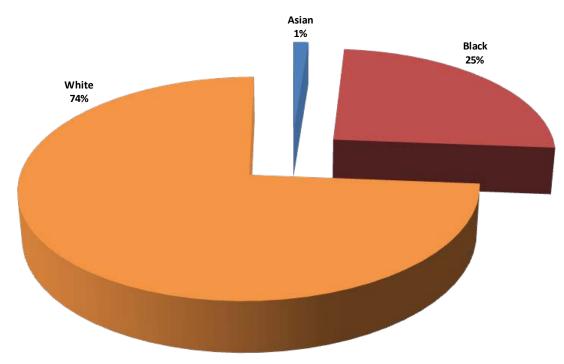


Figure 107. State Mental Health Deaths by Race, 2011



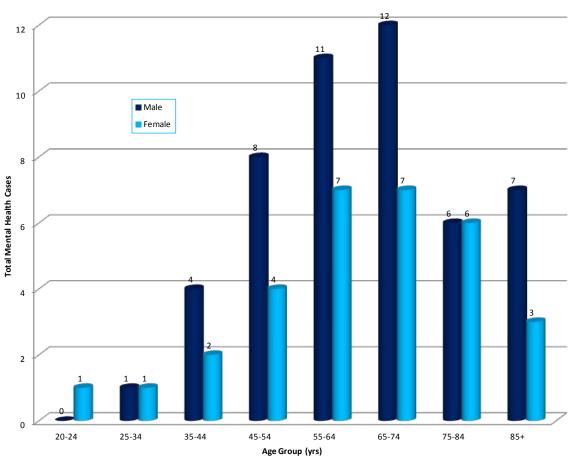


Table 55. State Mental Health Deaths by Facility Type by Gender, 2011

### Gender

State Facility Type	Male	Female	Total
Training Centers	21	20	41
All Others	28	11	39
Total	49	31	80

Table 56. State Mental Health Deaths by Facility Type by Race, 2011

#### Race

State Facility Type	Asian	Black	White	Total
Training Centers	0	11	30	41
All Others	1	9	29	39
Total	1	20	59	80

Table 57. State Mental Health Deaths by Cause of Death, 2011

Natural Deaths	<b>Total Cases</b>	Autopsied
Pulmonary Diseases/Disorders	30	8
COPD	1	0
Emboli	3	2
Pneumonia	26	6
Central Nervous System Diseases/Disorders	8	3
Seizure Disorder	1	1
Degenerative Disease	4	1
Other CNS Disease/Disorder	3	1
Cardiovascular Diseases/Disorders	12	6
Atherosclerosis	4	1
Hypertension	4	1
Atherosclerosis & Hypertension	3	3
Cardiac Dysrhythmia of Undetermined Etiology	1	1
Gastrointestinal Diseases/Disorders	12	3
GI Hemorrhage	2	0
GI Malignancy	3	1
Other GI Disease/Disorder	7	2
Genitourinal Diseases/Disorders	1	0
Renal Disease	1	0
Systemic Diseases/Disorders	4	1
Sepsis	3	0
Other Systemic Disease/Disorder	1	1

			0 '
Other Natural Diseases/Disorders		3	1
Other Mataral Disca	Other Malignancy	2	- 1
	Other Natural Disease/Disorder	1	0
Not all block	Other Natural Disease/Disorder		
Natural Subtotal		70	22
<b>Unnatural Deaths</b>		Total Cases	Autopsied
Asphyxia		3	1
	Choking (Aspiration: Food or Foreign Object)	2	0
	Hanging	1	1
Blunt Force Injuries		4	4
	Head	2	2
	Extremities	1	1
	Multiple	1	1
Drug Use		2	2
	Ingested and/or injected illicit, prescription, and/or other type of drug	2	2
Other Unnatural Deaths		1	1
	Other Unnatural	1	1
<b>Unnatural Subtotal</b>		10	8
TOTAL		80	30
	<u> </u>		•

## **SECTION 10: RECOVERED UNREPORTED CASES (N=146)**

Recovered unreported cases are those cases that the OCME investigates retrospectively. At times, medical care providers or death reporters misunderstand what type of case falls under the jurisdiction of the OCME and do not refer a case to the OCME. The OCME typically learns about these cases from VDH's Division of Vital Records, funeral homes, or local medical examiners.

While these 146 cases are in the annual report reflective of calendar year 2011, retrospective cases may have been deaths from other years but the OCME investigation of the case began in 2011.

- The majority of the OCME's retrospective cases are accidents (73.3%).
- Most common unreported type of death is due to a jump/fall (43.2%) followed by motor vehicle collisions (20.5%).

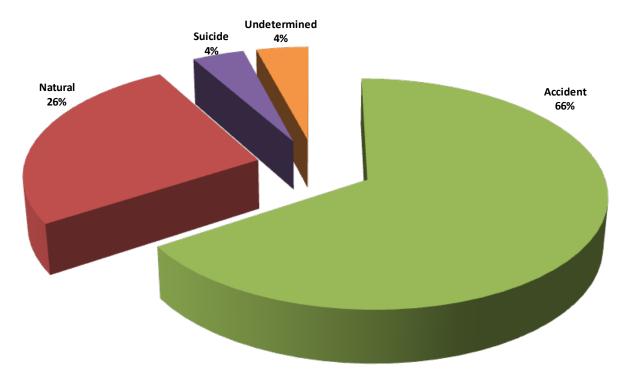


Figure 109. Retrospective Cases by Manner, 2011

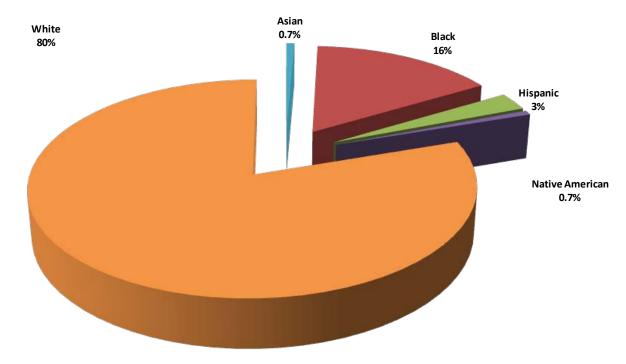
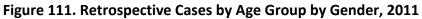


Figure 110. Retrospective Cases by Race/Ethnicity, 2011



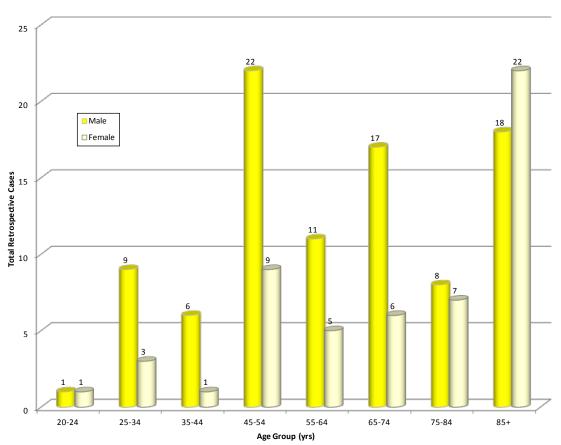


Table 58. Retrospective Cases by Method of death and by Classification of Death, 2011

<b>Method of Death</b>		<b>Total Cases</b>
Animal/Insect		
	Bitten, stung or kicked by animal/insect	1
Asphyxia		
	Choked on food/foreign object	1
	Hanging	1
Drug Use		
	Ingested ethanol or other alcohol	1
	Ingested and/or injected illicit, prescription, and/or OTC medication	16
	Ingested and/or injected other type of poison (Ethylene glycol, etc.)	1
Exposure		
	Exposed to heat	1
Fall/Jump		
	Jumped or fell from height	57
Motor Vehicle		
	Car	6
	Mo-ped	1
	Motorcycle	1
	Pickup Truck	3
	Sport Utility Vehicle	4
	Tractor Trailer	1
	Van	1
	Construction Vehicle	2
	Unknown	1
Traumatic Injury		
	Falling object	1
Unknown/Other		
	Other traumatic cases	8
Subtotal		108
Death Classification	un	
Natural Deaths		38
Unnatural Death	S	108
TOTAL DEATHS		146

### **GLOSSARY**

**Accident** – The *manner of death* used when, in other than *natural deaths*, there is no evidence of intent; an undesigned, sudden, and unexpected death.

**Assistant Chief Medical Examiner** – A forensic pathologist who has the duty of performing autopsies and investigating deaths that fall under the *jurisdiction* of the *Office of the Chief Medical Examiner*, and determining *cause* and *manner of death*.

**Autopsy** – A detailed postmortem external and internal examination of a body to determine cause of death, collect evidence, determine the presence or absence of injury.

**Cause of Death** – The disease, injury, or poison that results in a physiological derangement or biochemical disturbance that is incompatible with life. The result of post-mortem examination, including autopsy and toxicological findings, combined with information about the medical history of the decedent serves to establish the *cause of death*.

**Chief Medical Examiner** – The head of the *Office of the Chief Medical Examiner*. The Chief Medical Examiner must be a forensic pathologist licensed to practice medicine in Virginia and may appoint *Assistant Chief Medical Examiners* who are forensic pathologists, and *Local Medical Examiners*.

**Children** – Individuals 17 years of age and younger.

**County/City of Death** – The county/city where the death occurred. The county/city where the decedent legally resided, the county/city where the decedent was fatally injured, and the county/city where the decedent died may be the same or different.

**County/City of Residence** – The county/city where a person legally resides. If not a resident of Virginia, the decedent is listed as "out of state".

**Drug Caused Death** – A death caused by a drug or combination of drugs.

**Ethanol** – An alcohol, which is the principal intoxicant in beer, liquor, and wine. A person with an alcohol concentration in blood of 0.08 percent by weight by volume (0.08%) is legally intoxicated in Virginia.

**Ethanol Present** – Deaths in which toxicological tests reveal a reportable level of *ethanol* (0.01% W/V or greater) at the time of death.

**Homicide** – The *manner of death* in which death results from the intentional harm of one person by another.

**Jurisdiction** – The extent of the Office of the Chief Medical Examiner's authority over deaths. The OCME authority covers every death which is due or which might reasonably have been due to a violent or traumatic injury or accident, or is of public health interest and will be investigated by the Medical Examiner.

**Local Medical Examiner** – A physician appointed by the *Chief Medical Examiner* for a city or county to assist in the investigation of deaths and determine *jurisdiction* of the Office of the Chief Medical Examiner. There is a local medical examiner in most counties in Virginia.

**Manner of Death** – The general category of the circumstances of the event which causes the death. The categories are *accident, homicide, natural, suicide,* and *undetermined*.

Method of Death – The means, fatal agency or item causing death, present at the time of injury or death.

**Motor Vehicle Collision Related Death** – A death involving a motor vehicle. Motor vehicles include automobiles, vans, motorcycles, trucks, aircraft, and trains. The decedent is usually a driver of, a passenger in, or a pedestrian who is struck by a motor vehicle. The death of a bicyclist that is struck by a motor vehicle is considered to be a motor vehicle related death.

**Natural** – The *manner of death* used when solely a disease causes death. If death is hastened by an injury, the *manner of death* is not considered natural.

Office of the Chief Medical Examiner – The office within the Virginia Department of Health that is responsible for the investigation of sudden, violent, or unexpected death.

**Opiate** – A class of drugs, including morphine, codeine, and heroin, derived from the opium poppy plant (*Papaver somniferum*).

**Stimulant** – A class of drugs, including cocaine and oral amphetamines, whose principal action is the stimulation of the central nervous system.

**Sudden and Unexpected Infant Death** – A diagnosis designated for infants under the age of 1 year. Sudden and Unexpected Infant Death (SUID) is a diagnosis made in cases in which autopsy does not reveal a definitive medical or traumatic cause of death and the circumstances surrounding the death suggest that there is an associated risk factor for dying, such as unsafe bedding or co-sleep, or some other external factor, but the contribution of this factor cannot be determined with certainty. The diagnosis may also be used in the situation where a medical disease is identified, but it is uncertain that this disease caused death. The cause of death in suspected but not proven homicides would be undetermined.

**Sudden Infant Death Syndrome** –Sudden Infant Death Syndrome (SIDS) is defined as the sudden death of an infant less than one year of age that cannot be explained after a thorough investigation is conducted, including a complete autopsy, examination of the death scene which includes no external risk factors, and review of the clinical history.

Suicide – The manner of death in which death results from the purposeful attempt to end one's life.

**Undetermined** – The *manner of death* for deaths in which there is insufficient information to assign another manner. An undetermined death may have an undetermined cause of death & an unknown manner, an undetermined cause of death and a known manner, or a determined cause of death and an unknown manner.

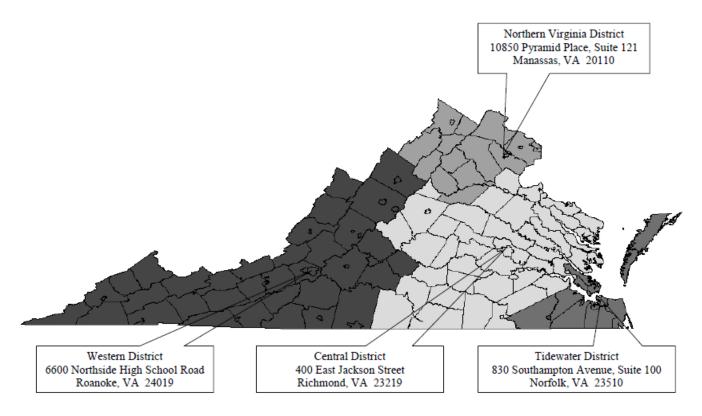
# **M**EDICAL EXAMINER DISTRICTS

**CENTRAL** *Counties* of Albemarle, Amelia, Brunswick, Buckingham, Caroline, Charles City, Charlotte, Chesterfield, Cumberland, Dinwiddie, Essex, Fluvanna, Gloucester, Goochland, Greene, Greensville, Halifax, Hanover, Henrico, James City, King and Queen, King George, King William, Lancaster, Louisa, Lunenburg, Mathews, Mecklenburg, Middlesex, Nelson, New Kent, Northumberland, Nottoway, Powhatan, Prince Edward, Prince George, Spotsylvania, Stafford, Surry, Sussex, Richmond, and Westmoreland. *Cities* of Charlottesville, Colonial Heights, Emporia, Fredericksburg, Hopewell, Petersburg, Richmond, and Williamsburg.

**NORTHERN** *Counties* of Arlington, Clarke, Culpeper, Fairfax, Fauquier, Frederick, Loudoun, Madison, Orange, Page, Prince William, Rappahannock, Shenandoah, and Warren. *Cities* of Alexandria, Fairfax, Falls Church, Manassas, Manassas Park, and Winchester.

**TIDEWATER** *Counties* of Accomack, Isle of Wight, Northampton, Southampton, and York. *Cities* of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, and Virginia Beach.

**WESTERN** *Counties* of Alleghany, Amherst, Appomattox, Augusta, Bath, Bedford, Bland, Botetourt, Buchanan, Campbell, Carroll, Craig, Dickenson, Floyd, Franklin, Giles, Grayson, Henry, Highland, Lee, Montgomery, Patrick, Pittsylvania, Pulaski, Roanoke, Rockbridge, Rockingham, Russell, Scott, Smyth, Tazewell, Washington, Wise, and Wythe. *Cities* of Bedford, Bristol, Buena Vista, Covington, Danville, Galax, Harrisonburg, Lexington, Lynchburg, Martinsville, Norton, Radford, Roanoke, Salem, Staunton, and Waynesboro.



Additional copies of this report are available at the following website: <a href="http://www.vdh.virginia.gov/medExam/Reports.htm">http://www.vdh.virginia.gov/medExam/Reports.htm</a>

Or by contacting:

Commonwealth of Virginia Virginia Department of Health Office of the Chief Medical Examiner 400 E. Jackson Street Richmond, VA 23219 (804)786-3174

