VDH VIRGINIA DEPARTMENT OF HEALTH
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Office of the Chief Medical Examiner's Annual Report, 2013

Commonwealth of Virginia
Virginia Department of Health
Office of the Chief Medical Examiner, 2013
Created by Kathrin Hobron, MPH

January 2015

Office of the Chief Medical Examiner's Annual Report, 2013

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Department of Health

Commonwealth of Virginia

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INTRODUCTION

Letter from the Chief Medical Examiner

The Department of Health's Office of the Chief Medical Examiner (OCME) is proud to present the 2013 annual report. Kathrin Hobron, MPH, the OCME State Epidemiologist, and Mr. Chris Batten, 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 (NAME). This report details the cases investigated by the OCME and identifies deadly trends in Virginia, providing a valuable resource to Virginia's leaders 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, under suspicious circumstances or in the custody of law enforcement or other state or local authority. 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 Kathrin Hobron has revealed several trends that should be shared with citizens and leaders of Virginia.

Some of the important trends for 2013 include:

- In 2013, the number of homicides in Virginia remained almost the exact same as in 2012 (340 cases and 344 cases, respectively). Similar to previous years, homicides most frequently occurred in males (77.9%) and in the African American population (59.4%).
- There was a decrease of 5.9% in child deaths in 2013 compared 2012 (269 and 286 fatalities, respectively).

- The elderly are at significant risk for accidental death with high rates of death from falls in persons aged 75 years and older. There were 170 falls that caused or contributed to death in adults 75-84 years of age and 264 such falls in persons 85 years of age and older.
- Similar to previous years, the demographic profile of suicides remained the same, with males aged 45-54 years having the largest number of suicides and males 85 years of age and older with the highest rate of suicide. Nearly 86% of suicides occurred among whites.
- Deaths due to drugs and poisons continued to be a burden for Virginians. The number of drug deaths in 2013 significantly increased from 2012 (13.3%), with 912 persons dying as a result of drugs or poisons in the Commonwealth. This equates to a mortality rate of all drug/poison deaths occurring in Virginia at 11.0 deaths per 100,000 persons. While historically the Western OCME has investigated the biggest burden of drug/poison deaths in the state (typically about 1/3 of all drug/poison cases), this percentage dropped in 2013 to 27.0% in the Western OCME and became more evenly distributed amongst the other OCME districts.
- The number of fatal heroin overdoses significantly increased in 2013. When compared to 2012, the number of fatal heroin overdoses increased by 57.8%.

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 2013.

Data Collection and Preparation

The data in this report reflect deaths accepted by the Office of the Chief Medical Examiner (OCME) pursuant to §32.1-283 of the Code of Virginia for the 2013 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 and 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" are based on both Virginia residents and non-Virginia residents who deaths have come under the jurisdiction of the Office of the Chief Medical Examiner
- Rates
  - Rates are per 100,000 persons of the specific Virginia population being described
  - Crude rates are used for all deaths occurring in Virginia, regardless of residential status
- Race/Ethnicity
  - Asian, Black, Native American, and White races represent those who have been identified as non-Hispanic ethnicity
  - Hispanic are persons identified as White race with Hispanic ethnicity
  - Other is persons that are identified as more than one race and/or Hispanic ethnicity (excluding White)
- Percents may total to above or below 100% due to rounding
- Toxicology
  - Results are based on blood specimens and vitreous fluid

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 2013, the OCME worked with approximately 174 local medical examiners that may receive initial notifications of death and determine if the death is under the jurisdiction of the OCME. After determining that a death is under their jurisdiction, local medical examiners may investigate the death scene and circumstances, externally examine the body, collect toxicology samples, and sign the certificate of death. Using professionally established guidelines, they may refer certain 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, administrative and morgue personnel. The Chief Medical Examiner 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 examinations to certify cause and manner of death and recover evidence
- Testify in court proceedings
- 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.

Virginia Demographics in 2013

In 2013, the estimated population of the Commonwealth was 8,260,405 persons. The average age of Virginia residents was 37.5 years and females represented 50.8% of the population. Whites constituted 64.8% of the population, blacks 19.8%, Asians 6.5%, Native Americans 0.3% and Hispanics were 8.6% of Virginia's people.

Fatality Review and Surveillance Programs

In addition to conducting medicolegal 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 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, or where the death is directly related to domestic violence. After cases are identified, they are placed in one of six violence-related homicide categories: intimate partner, intimate partner associated, child by caregiver, adult by caregiver, other family, and family associated. Information collected through this project is analyzed and published by the OCME.

Fifteen years of data reveal the following trends:

- On average, one-third of all homicides are due to family or intimate partner conflict.

- Males and females are both vulnerable; however, women have a greater probability of being killed by current or former intimate partners, whereas males have a greater probability of being killed in the crossfire of an intimate partner relationship or by a family member.
- Racial disparities continue to exist: black Virginians are at significantly greater risk for family and intimate partner homicide than white Virginians.
- Most victims are 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 murder-suicide in Virginia is related to intimate partner conflict. Approximately 30% of intimate partner homicides involve the suicide of the alleged offender.

Data from the FIPV are disseminated to stakeholders and used to inform public policy and prevention activities. Annual reports from the Office of the Attorney General and the Family and Children's Trust Fund utilize FIPV data to describe family violence in Virginia. Over the past year, eleven local government entities have requested and received customized data reports from FIPV, allowing them to gain a greater understanding of the impact of fatal domestic violence in their communities.

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 statewide medical examiner system, to be funded for this project, which is now operating in 32 states.

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 described suicide risk as it relates to entering nursing homes or long-term care facilities; violent death among persons who are homeless; how the nature and risk for homicide changes over the life course; violent deaths that occurred when the decedent was in jail, prison, or about to be arrested; and homicide and suicide in the workplace. VVDRS data is currently being used to update Virginia's statewide Suicide Prevention across the Lifespan plan and to assist Virginia localities in understanding and preventing suicide in their communities.

VVDRS research and surveillance activities have also documented the following:

- Suicide is more common than homicide. In 2012, for every one homicide there were more than three suicides.
- The homicide rate in Virginia has dropped from a rate of 6.2 persons per 100,000 (in 2005) to a rate of 3.9 (in 2012). This reduction in the overall homicide rate is attributed to the decline in homicides among Black males. Half (50%) of all homicide victims in Virginia are Black males.
- From 2003-2010, elder Virginians (those ages 60 and older) are 1.2 times more likely to die from suicide than are non-elder Virginians.
- From 2003-2011, approximately 10% of all suicide decedents ages 70 and over are currently in, or about to enter, hospice care or a nursing home.
- From 203-2011, violent death among persons who are homeless is strongly linked to alcohol and/or substance abuse problems.

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

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 multidisciplinary Team conducts retrospective reviews of the circumstances surrounding violent and unexpected child death and develops consensus recommendations for intervention and prevention of future child 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 of child death in the following areas: firearm; suicide; unintentional injury to children under the age of five; caretaker homicide; motor vehicle collision; child deaths from heat-related motor vehicle entrapment; non-caretaker homicide; and sleep-related infant death. In 2014, the Team began reviewing 2009-2013 child deaths due to poisoning. Some early data from that review includes:

- From 2009-2013, 41 children aged 0-17 died from poisoning.
- Most deaths occurred in the Western OCME district (39%) or the Central district (24%).
- Over half (56%) of the poisonings were accidental in manner of death. Suicides accounted for 17% of the poisoning deaths to children. Nine deaths (22%) were undetermined in manner and seven of those were to children 6 years of age and younger.
- Over half (56%) of the deaths were among males.
- Most of the deaths were to children aged 14-17 years (61%). Over one quarter of the deaths were children aged 1-4 years (27%).
- A single drug or substance was included in the child's official cause of death in over half of the cases (59%). Multiple drugs or substances were included in 39%.
- Prescription medications were included in the cause of death in 66% of cases. An illicit drug (heroin) caused death in 2 cases.

The Team has identified common trends observed in child deaths, including the presence of family violence and economic instability as risk factors for homicide of young children, the significance of diligent adult supervision in preventing unintentional injury death, and the prevalence of family substance abuse in cases of sleep-related infant deaths and deaths due to poisoning. Through its many reviews, the Team has discerned that child death is patterned and largely preventable.

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 investigated by a local department of social services for suspicions of abuse or neglect, regardless of the finding. The OCME provides training and technical assistance to these teams, assisting them with the theory and practice of effective child fatality review, developing guidance documents, and providing 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 and 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. Nineteen local or regional teams have been established throughout the Commonwealth. Reports published by Virginia's 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.

The OCME continues its work with the Virginia Partnership for Community Defined Solutions to Sexual and Domestic Violence to complete a statewide needs assessment to create an understanding of barriers to serving victims of sexual and domestic violence who identify as immigrants, persons with limited English proficiency, older adults, or African Americans. The OCME will use information learned during the assessment

to develop resources for local fatality review teams to assist in more competent review of fatalities involving these underserved victims.

This year marks one year since the launching of the Virginia Domestic Violence Fatality Review Information System (VAFRIS), a web-based database for use by local teams in collecting and reporting information gathered during the fatality review process. This innovative database houses more than 100 variables including demographics, criminal history, lethality risk factors, and community response assessment. Through guidance on data collection and templates for creating reports, VAFRIS provides an invaluable tool for teams in communicating fatality review findings to their communities. Fifteen users representing nine teams have now registered user accounts, with three teams already in the process of entering case data.

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

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. A recent report from PAMSS noted that Black women in the United States are known to suffer the greatest burden of pregnancy-associated death, a perplexing and consistently reported fact. This is true in Virginia as well. In each of the 13 years of pregnancy-associated deaths reported in Virginia, the mortality ratio for Black women exceeded that for White women. The overall pregnancy-associated mortality ratio for the 13 year period was 81.2 per 100,000 live births among Black women and 35.1 per 100,000 live births among White women – Black women died at 2.3 times the rate of White women.

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 US. 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. Virginia's 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 multidisciplinary 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; local health departments; and state planning agencies. 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:

http://www.vdh.virginia.gov/medexam/maternalmortality.htm. These reports include:

- Pregnancy-Associated Death Due to Cancer in Virginia, 1999-2007. Published September, 2014
- Motor Vehicle Collisions: The Leading Cause of Pregnancy-Associated Death in Virginia, Published April, 2014
- Pregnancy-Associated Deaths from Heart Disorders and Related Conditions in Virginia, 1999-2004, Published: July, 2012;
- Pregnancy Related Deaths in Virginia, 1999-2003, Published November 2010;
- Obesity and Maternal Death in Virginia, 1999-2002, Published March, 2009; and
- Pregnancy-Associated Maternal Death in Virginia, 1999-2001, Published October, 2007.

Virginia's Sudden Death in the Young (SDY) Project will begin in January 2015 in four communities served by the Tidewater OCME: the cities of Hampton, Newport News, Norfolk, and Virginia Beach. Using techniques from both surveillance and fatality review, this project involves intensive data collection and multidisciplinary review of all deaths to infants, children and youth up to 19 years of age with causes of death that are undetermined and not fully understood. These deaths may include sudden cardiac deaths and other forms of sudden death, such as those from epilepsy or those attributed to Sudden Infant Death Syndrome (SIDS) and Sudden Unexpected Infant Death (SUID). Understanding the precise etiology of these deaths and defining at-risk populations, medical histories, involvements with social services, and other circumstances of injury and death – is necessary as a first step to designing interventions and preventions to reduce these deaths.

The SDY project will involve an intense death investigation in each case, as well as review by both a multidisciplinary child fatality review team and a clinical review team of pediatric specialists in neurology, cardiology, and forensic pathology. One critical purpose of these investigations and reviews is to see if causes of death can be clarified and described. Families of decedent children and youth may consent to participate in a study of these deaths, which is being conducted by the Centers for Disease Control and Prevention (CDC) and the National Heart, Lung, and Blood Institute (NHLBI) and the National Institute of Neurological Disorders and Stroke (NINDS) at the National Institutes of Health. For this study, consent will also involve storing bio-specimens for DNA banking and testing should medical insights or breakthroughs in the future promise additional information about the child's death.

In Virginia, information learned from fatality review efforts will support the development of recommendations and information sharing with critical stakeholders to reduce injury and death.

Training and Education

Forensic Pathology Training Programs

Website — **http://www.vdh.state.va.us/medExam/training.htm**

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 ten 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. OCME office staff has full access to facilities at VCU and its medical, dental, pharmacy, hospital administration, nursing, and other health science schools.

Current medical students may rotate through the OCME on a month long elective rotation. Pathology residents desiring exposure to forensic pathology as part of a general anatomic pathology program may also complete a month long rotation through the OCME. The residents are usually 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. In addition to these rotations though the OCME, a forensic pathology training program is available and is designed to provide training and experience to physicians desiring a career in forensics. 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. After the 12-month fellowship, the physician should have obtained enough experience to be eligible to take the American Board of Pathology examination in forensic pathology. Upon completion, the trainee will be ready to accept a position in all types of Medical Examiner/Coroner systems.

During the last academic year 2013-2014, the OCME trained two fellows and fourteen 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 the Virginia OCME fulfills with this report. The following two tables provide data on the NAME required fields:

	Central	Northern	Tidewater	Western	Total
Total Deaths Reported to OCME	3937	2117	1723	2272	**10049**
OCME Cases by Examination Type					
Complete examinations (autopsy)	846	716	677	823	**3062**
External examination	935	517	581	636	**2669**
Partial examination	5	70	1	1	**77**
TOTAL CASES ACCEPTED BY THE OCME	**1786**	**1303**	**1259**	**1460**	**5808**
OCME Cases by Manner of Death					
Accident	788	606	511	630	**2535**
Homicide	118	39	126	57	**340**
Natural	539	332	369	467	**1707**
Suicide	312	289	185	276	**1062**
Undetermined	29	37	68	30	**164**
TOTAL CASES ACCEPTED BY THE OCME	**1786**	**1303**	**1259**	**1460**	**5808**

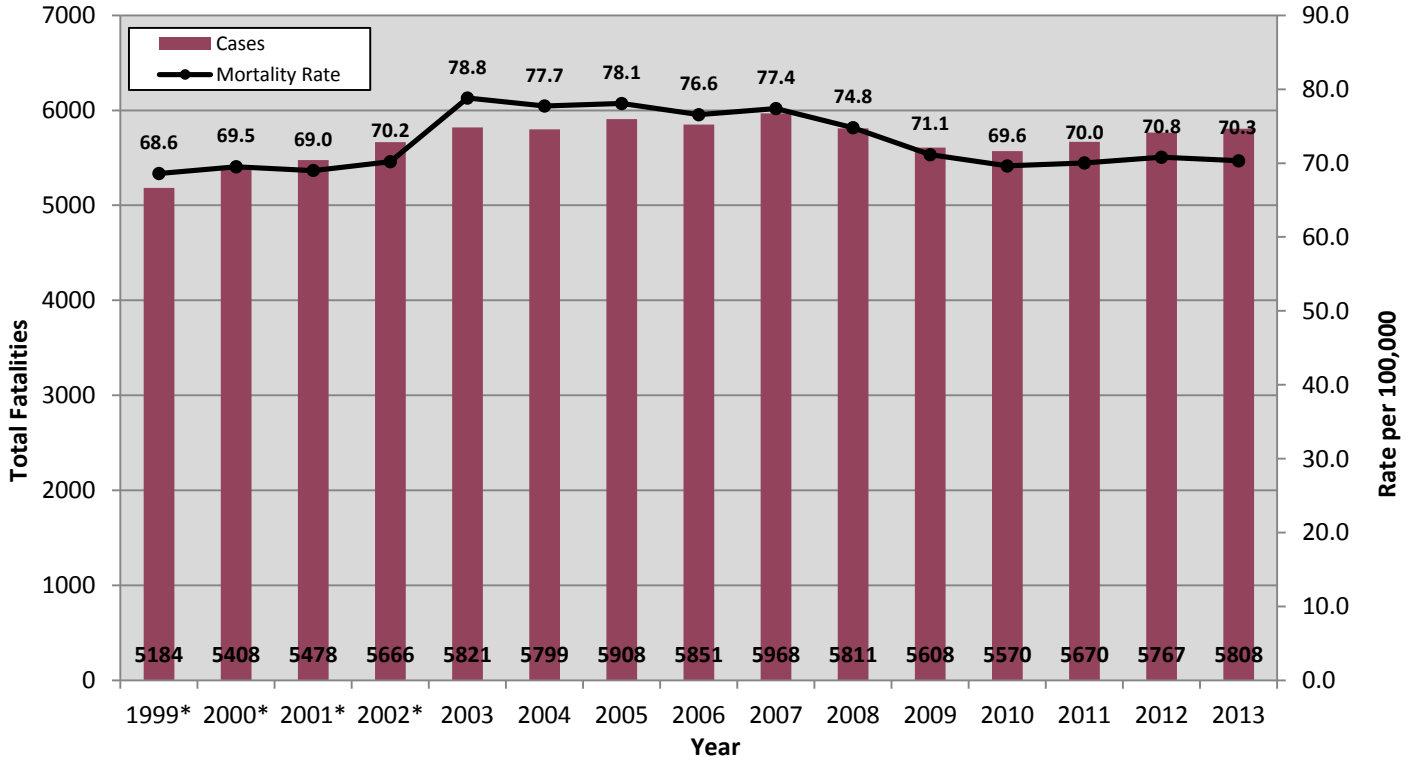
	Central	Northern	Tidewater	Western	Total
Bodies transported by office	1786	1303	1259	1460	**5808**
Bodies transported to office	1257	1017	858	1070	**4202**
Cases with toxicology (including retro cases)	934	1280	1145	1450	**4809**
Exhumations	1	1	0	0	**2**
Eye donations	17	8	124	16	**165**
Hospital autopsies under OCME jurisdiction	0	0	0	0	**0**
OCME cases referred for organ and tissue donations	80	42	162	57	**341**
Retrospective cases (cases handled separately)	34	40	41	111	**226**
Scene visits	262	59	216	137	**674**
Unclaimed bodies	6	16	31	9	**62**
Unidentified bodies after examination	2	2	1	0	**5**

SECTION 1: TOTAL OCME CASES (N=5,808)

In 2013, the Office of the Chief Medical Examiner (OCME) investigated 10,049 deaths, which account for roughly 15% of the estimated total deaths in Virginia. The OCME accepted 5,808 or 57.8% 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 8. While these deaths were investigated in 2013, they may not necessarily have occurred in 2013]. The caseload for 2013 represented a 0.7% increase from 2012. Of the deaths investigated by the OCME in 2013:

- The numbers of homicide, natural, and undermined deaths decreased compared to 2012, while accidents and suicides deaths increased
- Blacks continue to share a higher burden of homicides compared to their portion within the general population
- Males continue to represent a larger portion of OCME deaths (70.3%) than females
- The 45-54 year old age group had the greatest number of cases, representing 18.2% of OCME cases
- Fairfax County had the largest number of both residential deaths (n=405) and deaths by injury locality (n=450), but Craig County and Greensville County had the highest rates of death by residential locality and injury locality (172.7 and 218.7 per 100,000, respectively)

Figure 1.1 Total Number OCME Cases and Mortality Rate by Year of Death, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports.

Figure 1.2 Total Number of OCME Cases by Manner of Death, 1999-2013

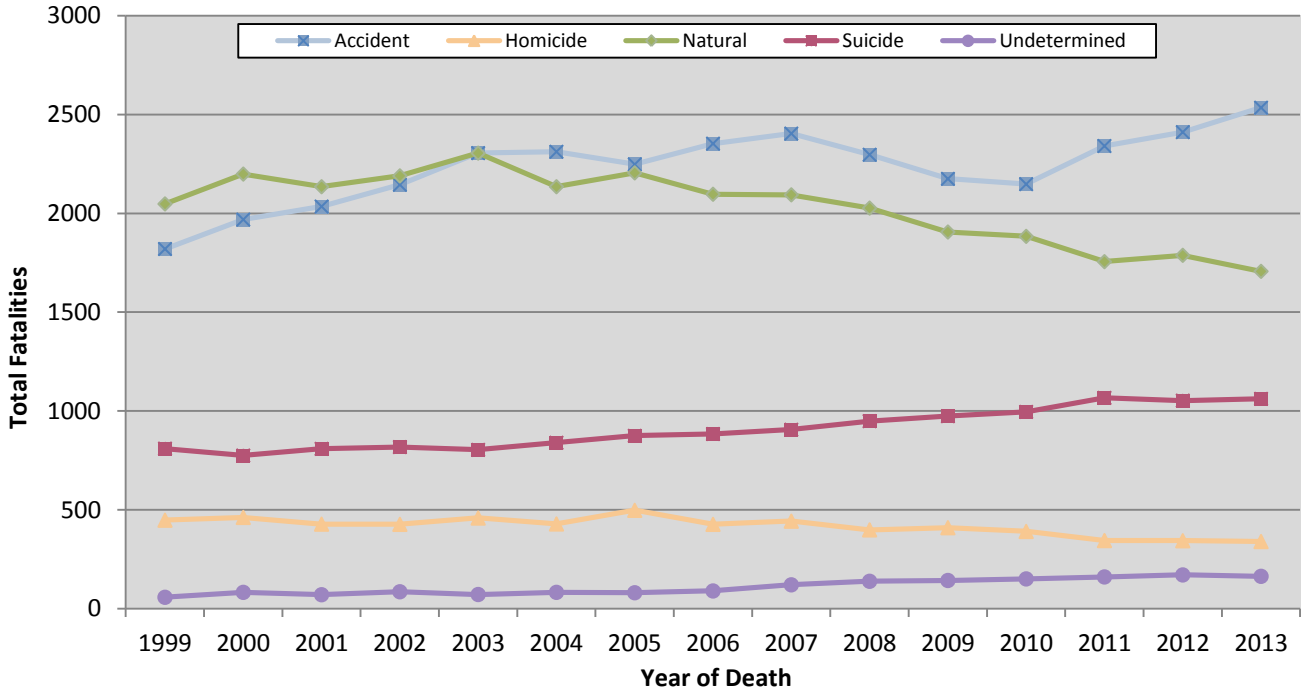


Figure 1.3 Percentage of OCME Cases by Manner of Death, 2013

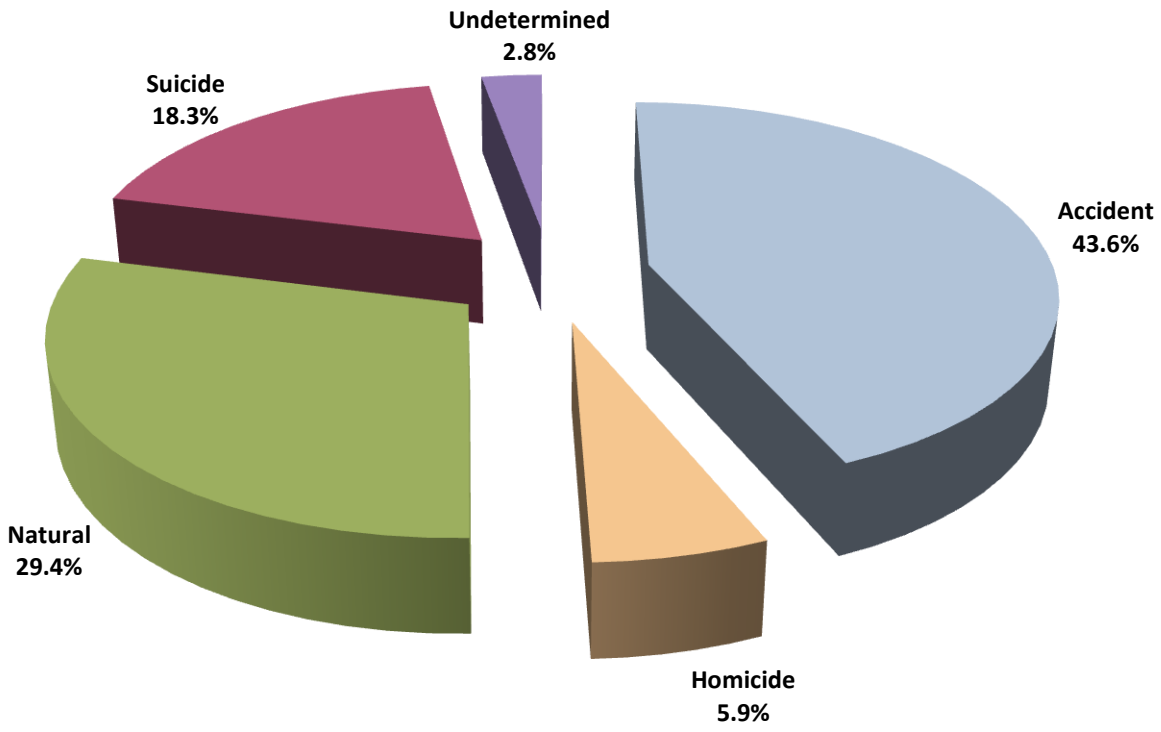


Table 1.1 Total Number of OCME Cases by District and Manner, 2013

Manner	Central	Northern	Tidewater	Western	Total
Accident	788	606	511	630	**2535**
Homicide	118	39	126	57	**340**
Natural	539	332	369	467	**1707**
Suicide	312	289	185	276	**1062**
Undetermined	29	37	68	30	**164**
TOTAL	**1786**	**1303**	**1259**	**1460**	**5808**

Table 1.2 Total Number of OCME Cases by Autopsy Status and District, 2013

	Autopsy Performed		
OCME District	Yes	No	Total
Central	851	935	**1786**
Northern	786	517	**1303**
Tidewater	678	581	**1259**
Western	824	636	**1460**
TOTAL	**3139**	**2669**	**5808**

Table 1.3 Total Number of OCME Cases by Manner of Death and Autopsy Status, 2013

Autopsy	Accident	Homicide	Natural	Suicide	Undetermined	Total
Yes	1032	340	756	856	155	**3139**
No	1503	0	951	206	9	**2669**
% Yes	40.7%	100.0%	44.3%	80.6%	94.5%	54.0%
TOTAL	**2535**	**340**	**1707**	**1062**	**164**	**5808**

Table 1.4 Total Number and Percentage of OCME Cases by Race/Ethnicity, 2013

Race/Ethnicity	Total	Percent
Asian	117	2.0%
Black	1183	20.4%
Hispanic	170	2.9%
Native American	6	0.1%
Other	56	1.0%
Unknown	1	0.0%
White	4275	73.6%
TOTAL	**5808**	**100.0%**

Figure 1.4 Total Number of OCME Cases by Manner of Death and Race/Ethnicity, 2013

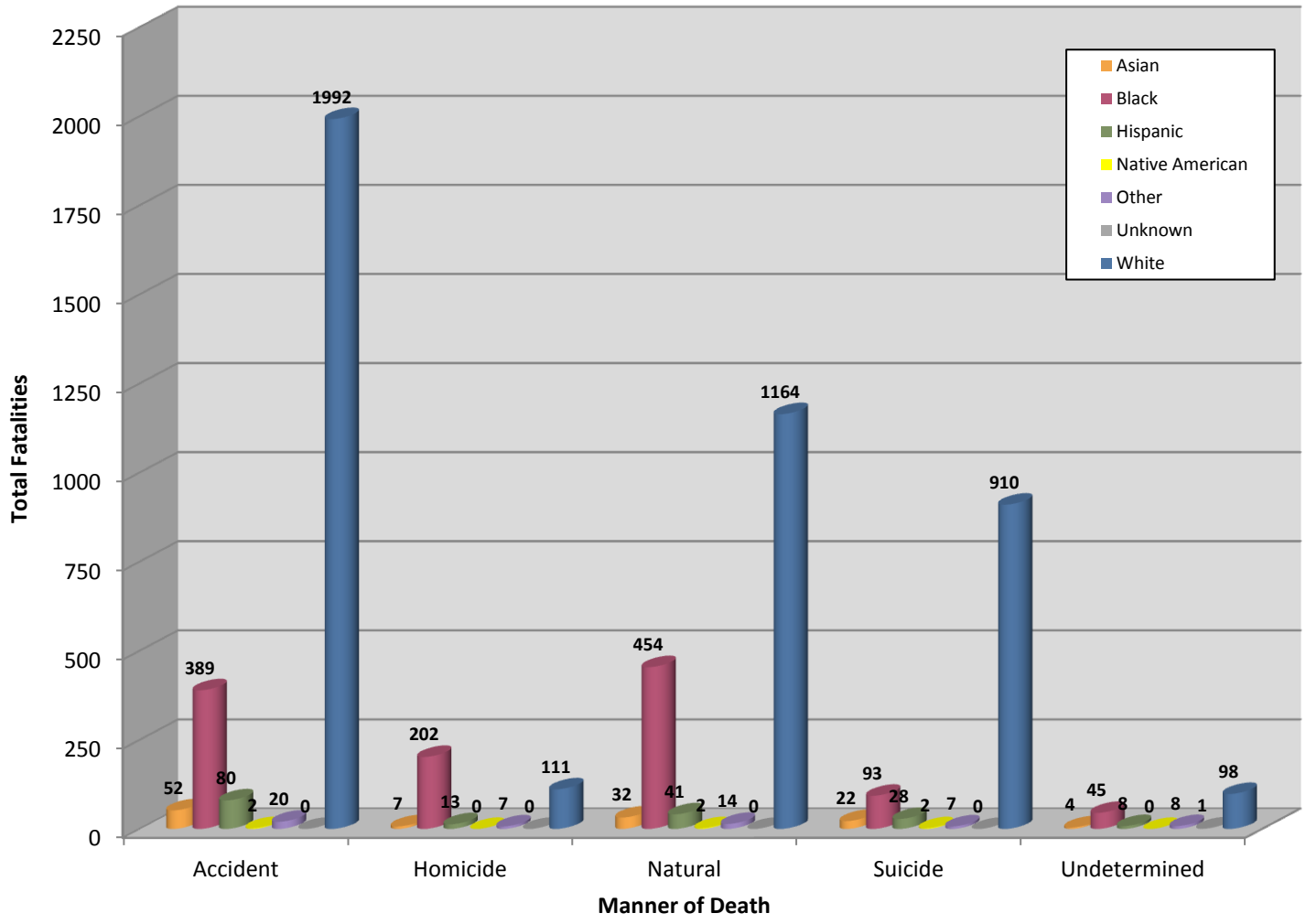


Figure 1.5 Total Number of OCME Cases by Age Group, 2013

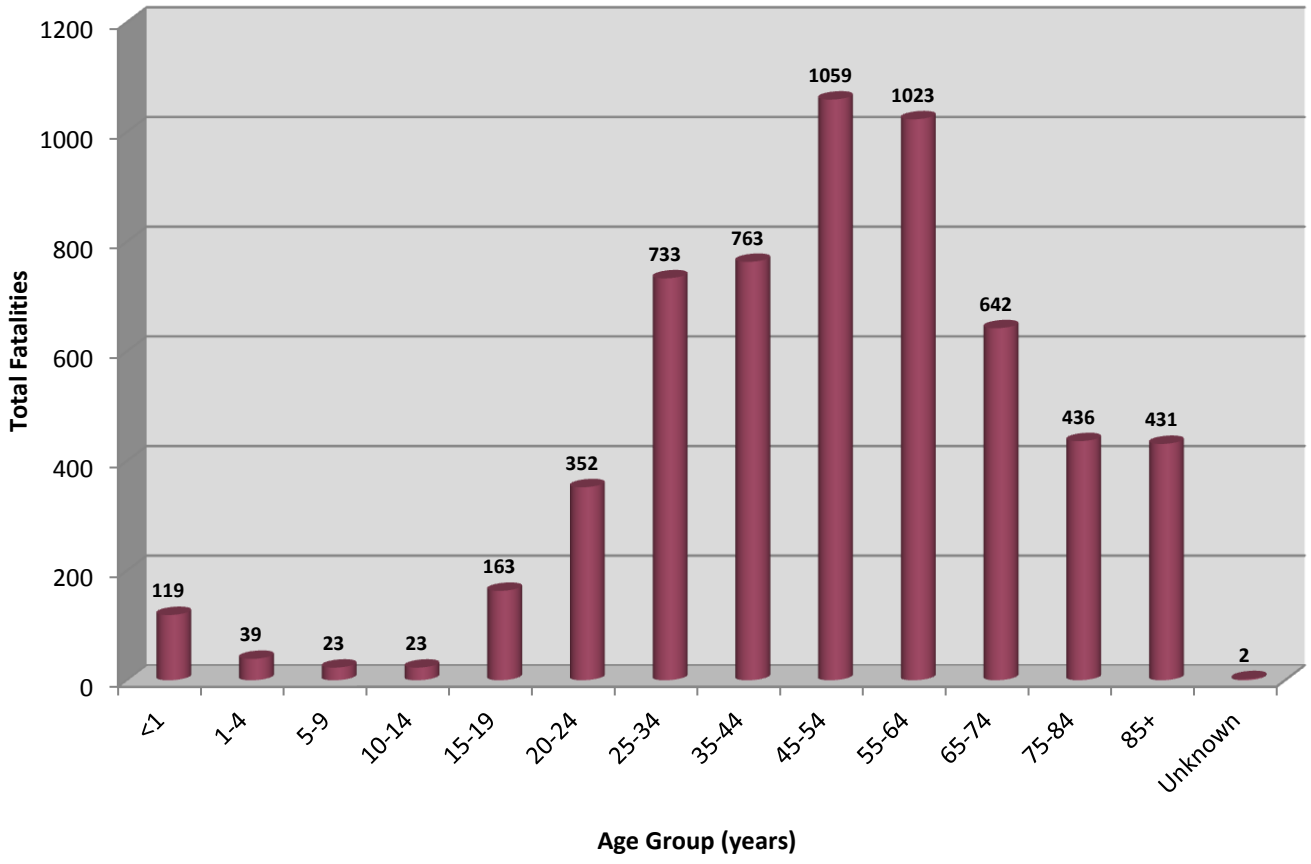


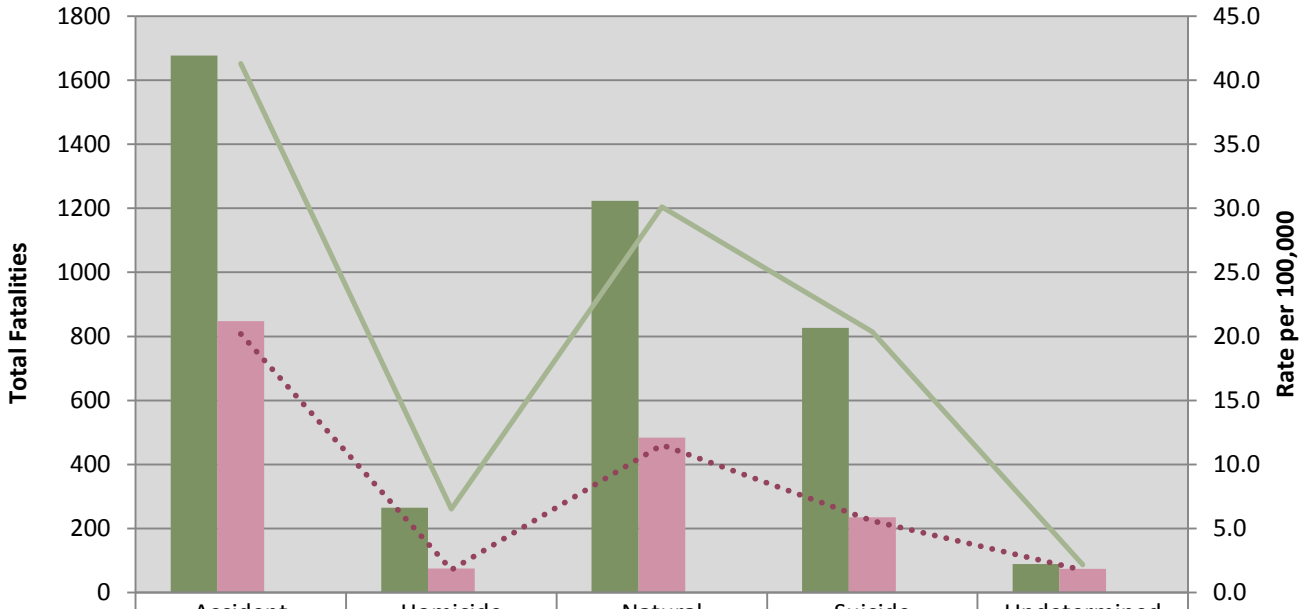
Table 1.5 Total Number and Percentage of OCME Cases by Gender, 2013

Gender	Total	Percent
Female	1726	29.7%
Male	4081	70.3%
Unknown	1	0.0%
TOTAL	**5808**	**100.0%**

Table 1.6 Total Number and Percentage of OCME Cases by Manner of Death and Gender, 2013

	Manner of Death					
Gender	**Accident**	**Homicide**	**Natural**	**Suicide**	**Undetermined**	**Total**
Female	858 (33.9%)	75 (22.1%)	484 (28.3%)	235 (22.1%)	74 (45.1%)	**1726 (29.7%)**
Male	1677 (66.1%)	265 (77.9%)	1223 (71.7%)	827 (77.9%)	89 (54.3%)	**4081 (70.3%)**
Unknown	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (0.6%)	**1 (0.0%)**
TOTAL	**2535**	**340**	**1707**	**1062**	**164**	**5808**

Figure 1.6 Total Number and Rate of OCME Cases by Manner of Death and Gender, 2013



	Accident	Homicide	Natural	Suicide	Undetermined
Male	1677	265	1223	827	89
Female	848	75	484	235	74
Unknown	0	0	0	0	1
Male Rate	41.3	6.5	30.1	20.4	2.2
Female Rate	20.2	1.8	11.5	5.6	1.8

Manner of Death

Table 1.7 Total Number of OCME Cases by Manner of Death, Gender, and Age Group, 2013

		Manner of Death					
Gender	**Age Group**	**Accident**	**Homicide**	**Natural**	**Suicide**	**Undetermined**	**Total**
FEMALE	**<1**	7	5	7	0	29	**48**
	1-4	6	2	6	0	2	**16**
	5-9	6	1	4	0	1	**12**
	10-14	5	0	2	3	0	**10**
	15-19	29	2	5	11	1	**48**
	20-24	44	6	6	14	1	**71**
	25-34	91	14	23	36	7	**171**
	35-44	102	17	58	46	11	**234**
	45-54	121	12	94	53	8	**288**
	55-64	77	9	111	39	6	**242**
	65-74	91	5	79	17	1	**193**
	75-84	104	2	41	11	1	**159**
	85+	175	0	48	5	5	**233**
	Unknown	0	0	0	0	1	**1**
	Subtotal	**858**	**75**	**484**	**235**	**74**	**1726**
MALE	**<1**	14	8	9	0	40	**71**
	1-4	11	6	5	0	1	**23**
	5-9	9	0	2	0	0	**11**
	10-14	7	3	1	2	0	**13**
	15-19	50	24	5	33	3	**115**
	20-24	136	56	18	68	3	**281**
	25-34	286	69	68	129	10	**562**
	35-44	221	38	123	141	6	**529**
	45-54	287	31	289	153	11	**771**
	55-64	216	21	386	149	9	**781**
	65-74	148	5	214	78	4	**449**
	75-84	152	3	78	43	1	**277**
	85+	140	1	25	31	1	**198**
	Unknown	0	0	0	0	0	**0**
	Subtotal	**1677**	**265**	**1223**	**827**	**89**	**4081**
UNKNOWN	***Unknown***	**0**	**0**	**0**	**0**	**1**	**1**
	Subtotal	**0**	**0**	**0**	**0**	**1**	**1**
TOTAL		**2535**	**340**	**1707**	**1062**	**164**	**5808**

Figure 1.7 Total Number of OCME Cases by Month of Death, 2013

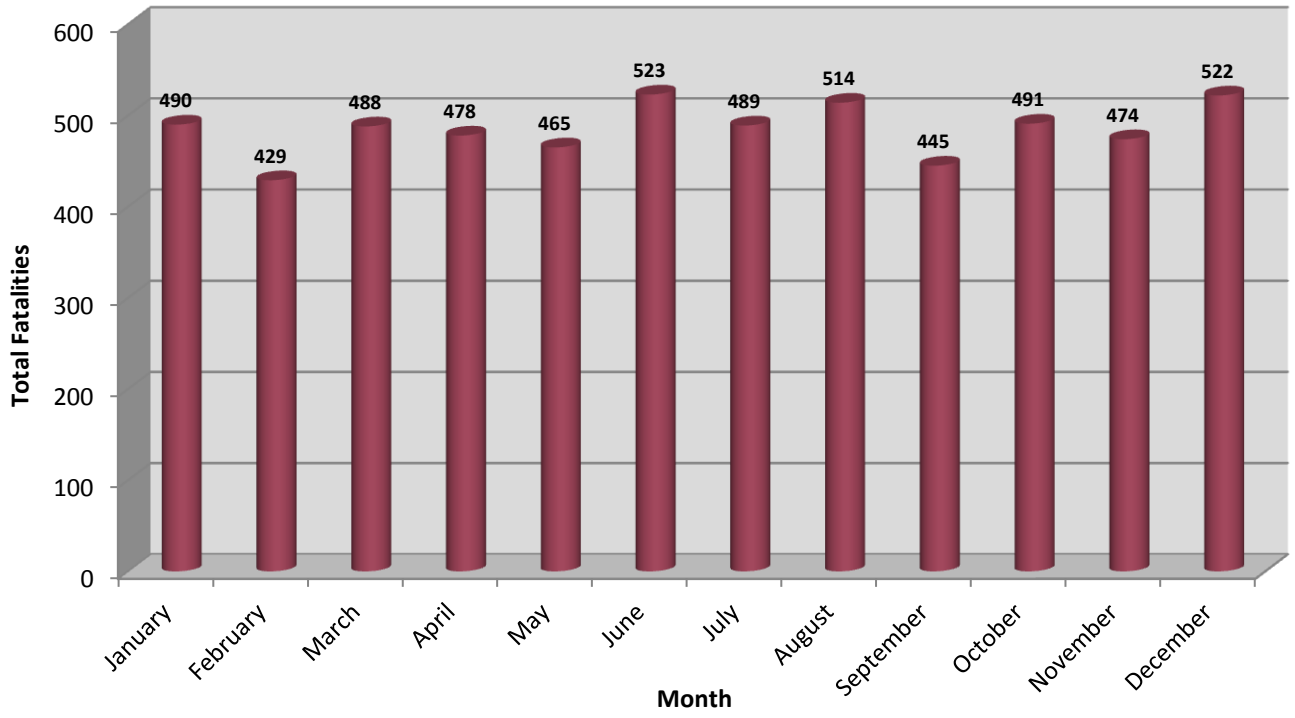


Figure 1.8 Total Number of OCME Cases by Month and Manner of Death, 2013

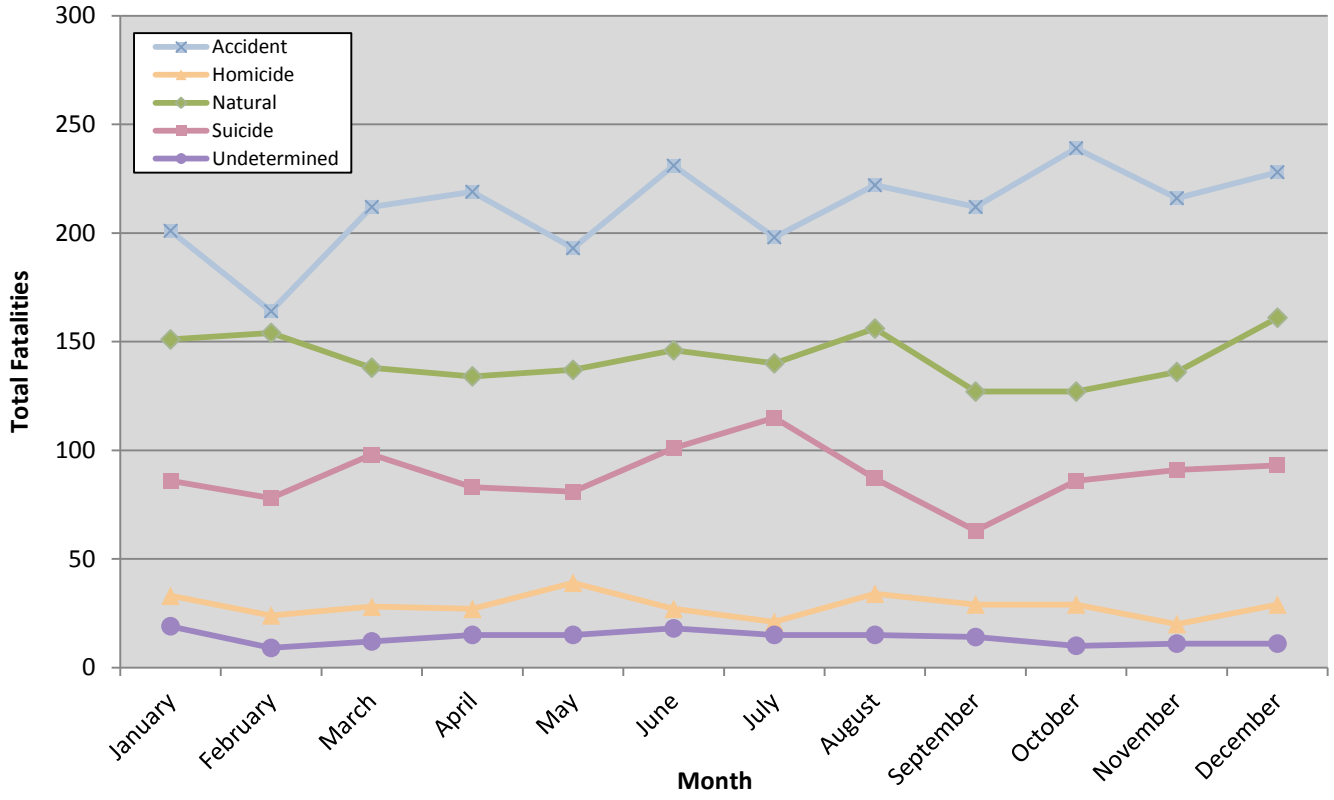


Figure 1.9 Total Number of OCME Cases by Day of Death, 2013

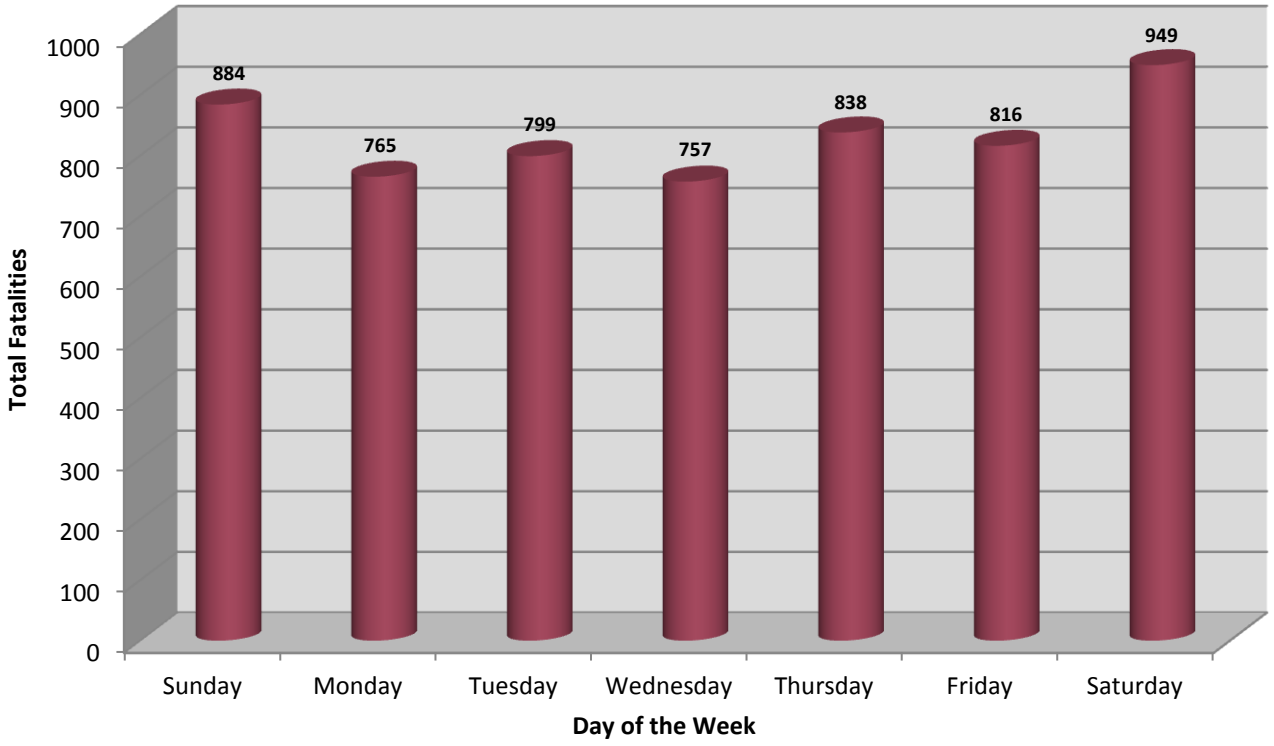


Figure 1.10 Total Number of OCME Cases by Day and Manner of Death, 2013

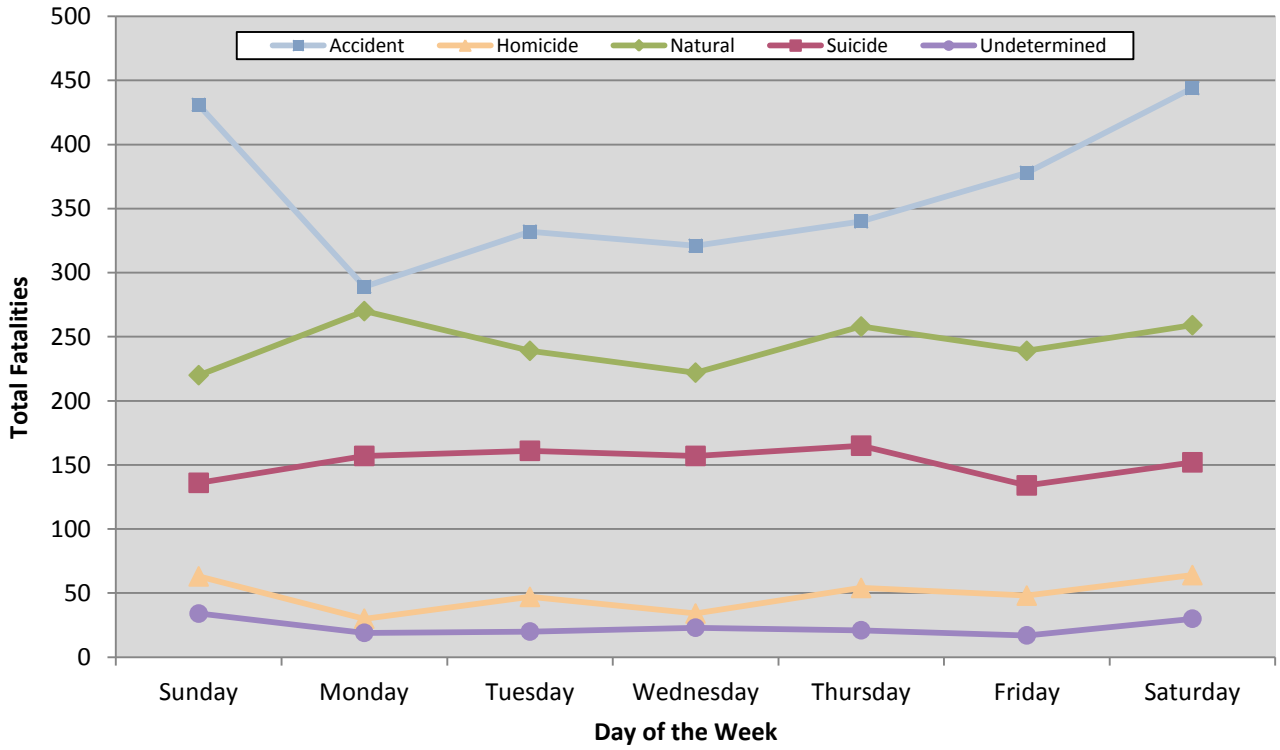


Table 1.8 Total Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2013

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 County	8	24.1	4	12.1	13	39.2	4	12.1	1	3.0	**30**	**90.5**
Albemarle County	24	23.3	2	1.9	16	15.5	12	11.7	1	1.0	**55**	**53.4**
Alexandria City	19	12.8	5	3.4	26	17.5	13	8.7	2	1.3	**65**	**43.7**
Alleghany County	9	55.7	2	12.4	2	12.4	1	6.2	0	0.0	**14**	**86.6**
Amelia County	6	47.1	0	0.0	3	23.5	0	0.0	0	0.0	**9**	**70.6**
Amherst County	10	31.1	1	3.1	18	55.9	2	6.2	1	3.1	**32**	**99.4**
Appomattox County	4	26.2	1	6.6	3	19.7	1	6.6	0	0.0	**9**	**59.0**
Arlington County	27	12.0	0	0.0	27	12.0	16	7.1	3	1.3	**73**	**32.5**
Augusta County	30	40.6	0	0.0	8	10.8	22	29.8	0	0.0	**60**	**81.2**
Bath County	2	43.3	0	0.0	1	21.7	1	21.7	0	0.0	**4**	**86.7**
Bedford City	1	16.8	0	0.0	5	84.1	3	50.4	0	0.0	**9**	**151.3**
Bedford County	31	44.4	0	0.0	17	24.3	9	12.9	0	0.0	**57**	**81.6**
Bland County	3	44.5	0	0.0	4	59.4	1	14.8	0	0.0	**8**	**118.8**
Botetourt County	13	39.4	2	6.1	5	15.2	6	18.2	1	3.0	**27**	**81.8**
Bristol City	0	0.0	0	0.0	8	46.1	1	5.8	0	0.0	**9**	**51.9**
Brunswick County	8	47.1	1	5.9	4	23.6	2	11.8	0	0.0	**15**	**88.4**
Buchanan County	12	50.9	0	0.0	11	46.6	5	21.2	0	0.0	**28**	**118.7**
Buckingham County	6	35.0	1	5.8	11	64.2	4	23.3	0	0.0	**22**	**128.4**
Buena Vista City	0	0.0	1	15.0	1	15.0	1	15.0	0	0.0	**3**	**44.9**
Campbell County	24	43.5	3	5.4	16	29.0	14	25.3	0	0.0	**57**	**103.2**
Caroline County	13	44.4	0	0.0	14	47.8	8	27.3	0	0.0	**35**	**119.5**
Carroll County	4	13.4	4	13.4	16	53.5	8	26.8	2	6.7	**34**	**113.8**
Charles City County	3	42.1	0	0.0	3	42.1	0	0.0	0	0.0	**6**	**84.2**

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
Charlotte County	3	24.4	1	8.1	3	24.4	3	24.4	0	0.0	**10**	**81.3**
Charlottesville City	11	24.8	2	4.5	6	13.5	4	9.0	1	2.3	**24**	**54.1**
Chesapeake City	64	27.8	11	4.8	43	18.6	28	12.1	6	2.6	**152**	**65.9**
Chesterfield County	80	24.4	15	4.6	45	13.7	50	15.3	3	0.9	**193**	**58.9**
Clarke County	5	34.8	0	0.0	2	13.9	1	7.0	0	0.0	**8**	**55.8**
Colonial Heights City	6	34.0	1	5.7	4	22.7	1	5.7	0	0.0	**12**	**68.1**
Covington City	2	34.4	1	17.2	3	51.6	2	34.4	0	0.0	**8**	**137.5**
Craig County	4	76.8	0	0.0	2	38.4	3	57.6	0	0.0	**9**	**172.7**
Culpeper County	23	47.4	3	6.2	5	10.3	8	16.5	0	0.0	**39**	**80.4**
Cumberland County	9	91.5	2	20.3	2	20.3	2	20.3	0	0.0	**15**	**152.4**
Danville City	17	39.6	4	9.3	29	67.6	5	11.7	3	7.0	**58**	**135.2**
Dickenson County	8	51.7	1	6.5	8	51.7	6	38.7	0	0.0	**23**	**148.5**
Dinwiddie County	16	57.3	6	21.5	18	64.5	1	3.6	0	0.0	**41**	**146.9**
Emporia City	3	53.7	2	35.8	2	35.8	0	0.0	0	0.0	**7**	**125.3**
Essex County	3	26.7	1	8.9	0	0.0	2	17.8	0	0.0	**6**	**53.4**
Fairfax City	12	50.1	1	4.2	5	20.9	9	37.5	0	0.0	**27**	**112.6**
Fairfax County	171	15.1	9	0.8	109	9.6	103	9.1	13	1.1	**405**	**35.8**
Falls Church City	3	22.2	0	0.0	3	22.2	2	14.8	0	0.0	**8**	**59.2**
Fauquier County	25	37.2	2	3.0	15	22.3	14	20.8	0	0.0	**56**	**83.3**
Floyd County	12	77.3	0	0.0	3	19.3	4	25.8	0	0.0	**19**	**122.4**
Fluvanna County	5	19.2	1	3.8	6	23.1	5	19.2	1	3.8	**18**	**69.3**
Franklin City	5	57.9	0	0.0	3	34.7	1	11.6	0	0.0	**9**	**104.2**
Franklin County	16	28.4	3	5.3	12	21.3	9	16.0	2	3.6	**42**	**74.6**
Frederick County	29	35.7	0	0.0	9	11.1	11	13.5	2	2.5	**51**	**62.7**
Fredericksburg City	8	28.4	2	7.1	4	14.2	2	7.1	0	0.0	**16**	**56.9**

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
Galax City	3	42.6	0	0.0	2	28.4	0	0.0	0	0.0	**5**	**71.1**
Giles County	9	53.2	1	5.9	5	29.5	2	11.8	0	0.0	**17**	**100.4**
Gloucester County	17	46.2	0	0.0	5	13.6	4	10.9	0	0.0	**26**	**70.6**
Goochland County	3	13.9	0	0.0	4	18.5	6	27.7	0	0.0	**13**	**60.1**
Grayson County	8	52.8	0	0.0	5	33.0	2	13.2	0	0.0	**15**	**98.9**
Greene County	6	31.9	0	0.0	2	10.6	0	0.0	0	0.0	**8**	**42.5**
Greensville County	6	50.5	2	16.8	10	84.1	4	33.7	0	0.0	**22**	**185.1**
Halifax County	9	25.4	0	0.0	6	16.9	3	8.5	0	0.0	**18**	**50.8**
Hampton City	37	27.1	18	13.2	29	21.2	15	11.0	3	2.2	**102**	**74.6**
Hanover County	33	32.6	2	2.0	17	16.8	18	17.8	0	0.0	**70**	**69.1**
Harrisonburg City	11	21.4	1	1.9	3	5.8	6	11.7	1	1.9	**22**	**42.8**
Henrico County	93	29.2	9	2.8	53	16.6	40	12.6	4	1.3	**199**	**62.5**
Henry County	21	39.9	4	7.6	17	32.3	9	17.1	1	1.9	**52**	**98.8**
Highland County	1	45.1	0	0.0	0	0.0	2	90.3	0	0.0	**3**	**135.4**
Hopewell City	4	18.0	2	9.0	7	31.6	6	27.1	1	4.5	**20**	**90.2**
Isle of Wight County	11	30.9	1	2.8	6	16.8	3	8.4	2	5.6	**23**	**64.5**
James City County	23	32.6	3	4.3	14	19.9	4	5.7	0	0.0	**44**	**62.4**
King and Queen County	0	0.0	1	14.0	3	42.1	0	0.0	0	0.0	**4**	**56.1**
King George County	8	32.1	0	0.0	5	20.1	8	32.1	0	0.0	**21**	**84.2**
King William County	9	55.9	0	0.0	1	6.2	3	18.6	0	0.0	**13**	**80.8**
Lancaster County	4	35.9	0	0.0	2	17.9	2	17.9	0	0.0	**8**	**71.8**
Lee County	10	39.7	2	7.9	8	31.8	3	11.9	0	0.0	**23**	**91.3**
Lexington City	0	0.0	0	0.0	2	27.9	1	13.9	0	0.0	**3**	**41.8**
Loudoun County	48	13.7	5	1.4	21	6.0	32	9.2	2	0.6	**108**	**30.9**
Louisa County	13	38.3	0	0.0	7	20.6	1	2.9	2	5.9	**23**	**67.8**

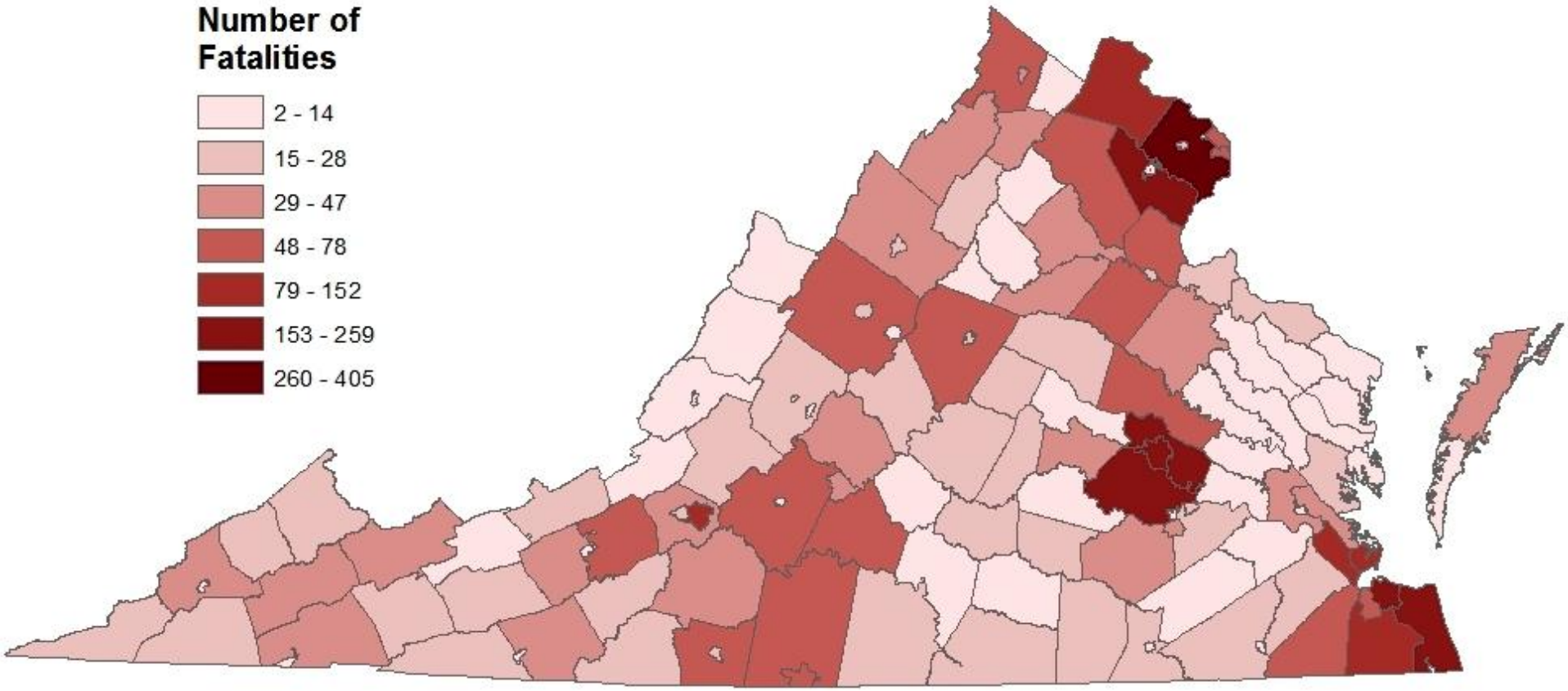
County/City of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Lunenburg County	5	39.9	0	0.0	7	55.9	2	16.0	0	0.0	**14**	**111.8**
Lynchburg City	23	29.5	3	3.8	14	17.9	3	3.8	2	2.6	**45**	**57.7**
Madison County	5	37.9	1	7.6	4	30.3	0	0.0	0	0.0	**10**	**75.8**
Manassas City	5	12.0	1	2.4	3	7.2	4	9.6	0	0.0	**13**	**31.2**
Manassas Park City	0	0.0	1	6.2	0	0.0	2	12.4	0	0.0	**3**	**18.6**
Martinsville City	11	80.0	3	21.8	5	36.4	3	21.8	0	0.0	**22**	**159.9**
Mathews County	6	67.4	0	0.0	2	22.5	1	11.2	0	0.0	**9**	**101.2**
Mecklenburg County	10	31.8	2	6.4	9	28.6	5	15.9	1	3.2	**27**	**85.9**
Middlesex County	4	37.2	1	9.3	4	37.2	3	27.9	0	0.0	**12**	**111.5**
Montgomery County	25	26.0	1	1.0	16	16.6	7	7.3	1	1.0	**50**	**52.0**
Nelson County	9	60.9	1	6.8	9	60.9	6	40.6	0	0.0	**25**	**169.0**
New Kent County	3	15.4	0	0.0	4	20.5	3	15.4	0	0.0	**10**	**51.3**
Newport News City	49	26.9	16	8.8	32	17.6	21	11.5	8	4.4	**126**	**69.2**
Norfolk City	87	35.3	26	10.6	80	32.5	28	11.4	21	8.5	**242**	**98.3**
Northampton County	6	49.5	2	16.5	3	24.7	1	8.2	1	8.2	**13**	**107.2**
Northumberland County	6	49.2	0	0.0	3	24.6	0	0.0	1	8.2	**10**	**82.0**
Norton City	1	24.9	0	0.0	0	0.0	0	0.0	1	24.9	**2**	**49.8**
Nottoway County	9	57.1	0	0.0	6	38.0	1	6.3	0	0.0	**16**	**101.4**
Orange County	17	49.0	0	0.0	4	11.5	8	23.1	1	2.9	**30**	**86.5**
Page County	11	46.2	0	0.0	2	8.4	5	21.0	0	0.0	**18**	**75.6**
Patrick County	12	65.3	0	0.0	6	32.7	9	49.0	0	0.0	**27**	**147.0**
Petersburg City	11	33.8	8	24.6	6	18.4	3	9.2	3	9.2	**31**	**95.3**
Pittsylvania County	25	40.0	1	1.6	23	36.8	16	25.6	0	0.0	**65**	**104.1**
Poquoson City	2	16.5	0	0.0	3	24.8	1	8.3	1	8.3	**7**	**57.8**
Portsmouth City	30	31.2	7	7.3	27	28.1	10	10.4	4	4.2	**78**	**81.1**

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
Powhatan County	9	31.8	1	3.5	18	63.7	5	17.7	1	3.5	**34**	**120.3**
Prince Edward County	8	35.1	1	4.4	7	30.7	2	8.8	0	0.0	**18**	**78.9**
Prince George County	10	26.8	3	8.1	6	16.1	5	13.4	0	0.0	**24**	**64.4**
Prince William County	76	17.3	6	1.4	44	10.0	42	9.6	10	2.3	**178**	**40.6**
Pulaski County	16	46.4	1	2.9	8	23.2	7	20.3	1	2.9	**33**	**95.6**
Radford City	2	11.6	0	0.0	4	23.3	6	34.9	0	0.0	**12**	**69.8**
Rappahannock County	2	26.7	0	0.0	1	13.4	0	0.0	0	0.0	**3**	**40.1**
Richmond City	72	33.6	34	15.9	61	28.5	23	10.7	2	0.9	**192**	**89.7**
Richmond County	1	11.2	0	0.0	2	22.3	1	11.2	0	0.0	**4**	**44.7**
Roanoke City	51	51.8	13	13.2	29	29.5	18	18.3	4	4.1	**115**	**116.8**
Roanoke County	25	26.7	1	1.1	9	9.6	10	10.7	1	1.1	**46**	**49.2**
Rockbridge County	5	22.4	0	0.0	6	26.9	3	13.4	1	4.5	**15**	**67.2**
Rockingham County	27	34.7	0	0.0	11	14.1	8	10.3	1	1.3	**47**	**60.5**
Russell County	10	35.4	2	7.1	12	42.5	6	21.2	2	7.1	**32**	**113.2**
Salem City	11	43.5	1	4.0	7	27.7	8	31.6	0	0.0	**27**	**106.7**
Scott County	8	35.3	0	0.0	8	35.3	3	13.3	0	0.0	**19**	**83.9**
Shenandoah County	16	37.5	2	4.7	6	14.1	7	16.4	1	2.3	**32**	**75.0**
Smyth County	8	25.3	0	0.0	7	22.1	12	37.9	0	0.0	**27**	**85.3**
Southampton County	7	38.6	1	5.5	13	71.7	2	11.0	1	5.5	**24**	**132.4**
Spotsylvania County	39	30.6	2	1.6	22	17.3	12	9.4	2	1.6	**77**	**60.5**
Stafford County	29	21.2	5	3.7	22	16.1	18	13.2	2	1.5	**76**	**55.6**
Staunton City	9	37.0	1	4.1	5	20.5	3	12.3	0	0.0	**18**	**73.9**
Suffolk City	26	30.3	8	9.3	19	22.2	12	14.0	2	2.3	**67**	**78.2**
Surry County	3	44.3	0	0.0	1	14.8	1	14.8	0	0.0	**5**	**73.9**
Sussex County	3	25.4	1	8.5	4	33.9	2	16.9	0	0.0	**10**	**84.7**

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
Tazewell County	14	31.7	0	0.0	20	45.3	5	11.3	1	2.3	**40**	**90.7**
Virginia Beach City	123	27.4	21	4.7	59	13.2	45	10.0	11	2.5	**259**	**57.8**
Warren County	20	51.7	0	0.0	6	15.5	7	18.1	0	0.0	**33**	**85.3**
Washington County	9	16.4	2	3.6	19	34.6	7	12.7	1	1.8	**38**	**69.2**
Waynesboro City	7	32.9	0	0.0	1	4.7	2	9.4	0	0.0	**10**	**47.0**
Westmoreland County	11	62.5	0	0.0	10	56.8	3	17.0	0	0.0	**24**	**136.3**
Williamsburg City	4	26.3	0	0.0	6	39.5	1	6.6	0	0.0	**11**	**72.3**
Winchester City	16	58.8	2	7.3	11	40.4	4	14.7	1	3.7	**34**	**124.9**
Wise County	21	51.7	0	0.0	12	29.6	2	4.9	2	4.9	**37**	**91.2**
Wythe County	11	37.5	0	0.0	8	27.3	2	6.8	0	0.0	**21**	**71.6**
York County	13	19.6	2	3.0	9	13.6	7	10.6	2	3.0	**33**	**49.8**
Subtotal (in state)	2278	27.6	330	4.0	1572	19.0	1027	12.4	152	1.8	**5359**	**64.9**
Out of State	252	ND	10	ND	130	ND	33	ND	11	ND	**436**	**ND**
Unknown	5	ND	0	ND	5	ND	2	ND	1	ND	**13**	**ND**
Subtotal (out of state)	257	ND	10	ND	135	ND	35	ND	12	ND	**449**	**ND**
TOTAL	**2535**	**30.7**	**340**	**4.1**	**1707**	**20.7**	**1062**	**12.9**	**164**	**2.0**	**5808**	**70.3**

Note: No denominator is represented by ND

Map 1.1 Total Number of OCME Cases by Locality of Residence, 2013



Map 1.2 Rates of OCME Cases by Locality of Residence, 2013

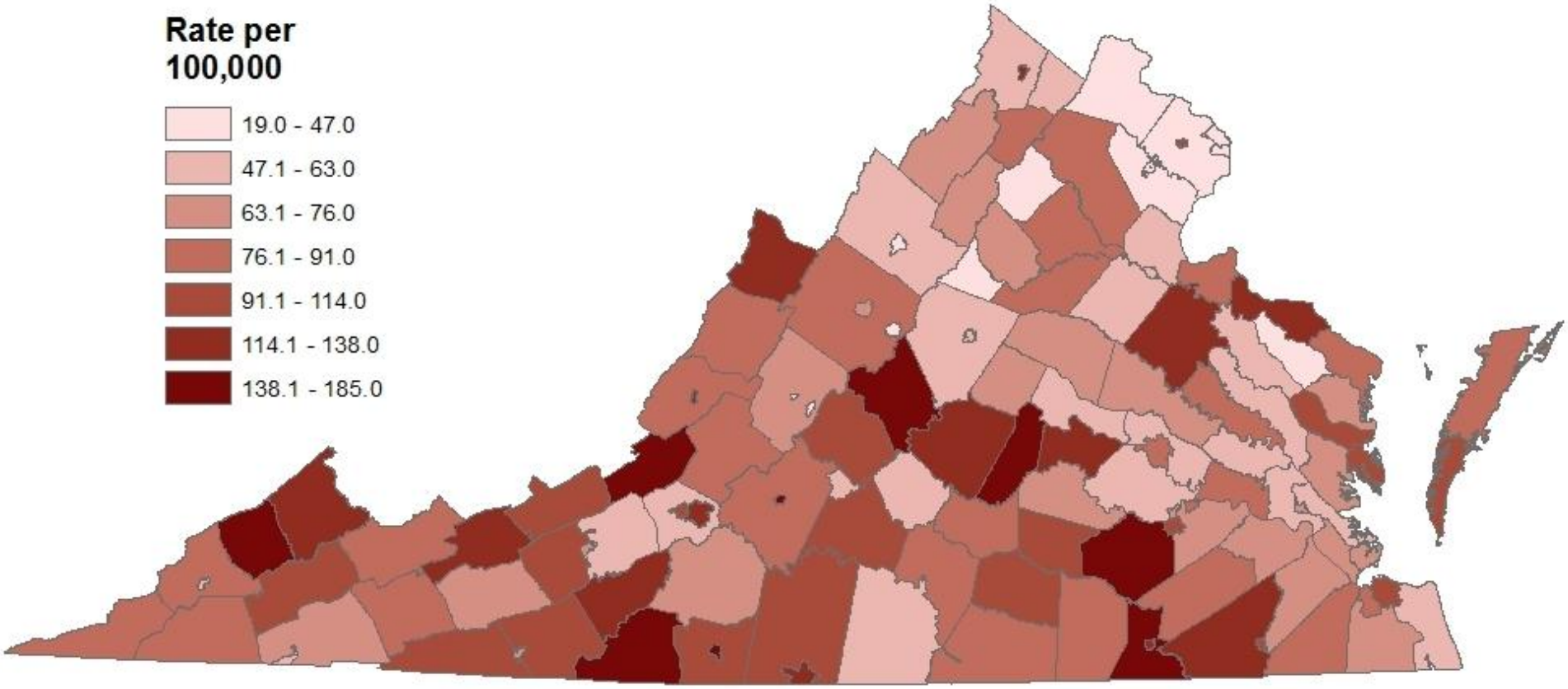


Table 1.9 Total Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2013

County/City of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Accomack County	12	36.2	5	15.1	15	45.3	4	12.1	1	3.0	**37**	**111.6**
Albemarle County	32	31.1	2	1.9	16	15.5	12	11.7	1	1.0	**63**	**61.2**
Alexandria City	21	14.1	6	4.0	28	18.8	16	10.7	2	1.3	**73**	**49.0**
Alleghany County	8	49.5	2	12.4	2	12.4	1	6.2	0	0.0	**13**	**80.4**
Amelia County	5	39.2	0	0.0	3	23.5	1	7.8	0	0.0	**9**	**70.6**
Amherst County	12	37.3	1	3.1	18	55.9	2	6.2	1	3.1	**34**	**105.7**
Appomattox County	4	26.2	0	0.0	2	13.1	1	6.6	0	0.0	**7**	**45.9**
Arlington County	32	14.2	0	0.0	35	15.6	18	8.0	4	1.8	**89**	**39.6**
Augusta County	32	43.3	0	0.0	9	12.2	20	27.1	0	0.0	**61**	**82.5**
Bath County	2	43.3	0	0.0	1	21.7	2	43.3	0	0.0	**5**	**108.3**
Bedford City	2	33.6	0	0.0	5	84.1	3	50.4	0	0.0	**10**	**168.1**
Bedford County	32	45.8	0	0.0	16	22.9	10	14.3	0	0.0	**58**	**83.1**
Bland County	2	29.7	0	0.0	4	59.4	1	14.8	0	0.0	**7**	**103.9**
Botetourt County	12	36.4	1	3.0	5	15.2	7	21.2	1	3.0	**26**	**78.8**
Bristol City	1	5.8	0	0.0	8	46.1	1	5.8	0	0.0	**10**	**57.7**
Brunswick County	15	88.4	0	0.0	7	41.2	2	11.8	0	0.0	**24**	**141.4**
Buchanan County	13	55.1	0	0.0	12	50.9	4	17.0	0	0.0	**29**	**122.9**
Buckingham County	5	29.2	1	5.8	9	52.5	4	23.3	0	0.0	**19**	**110.9**
Buena Vista City	0	0.0	1	15.0	1	15.0	1	15.0	0	0.0	**3**	**44.9**
Campbell County	21	38.0	3	5.4	13	23.5	13	23.5	0	0.0	**50**	**90.5**
Caroline County	17	58.0	0	0.0	13	44.4	8	27.3	0	0.0	**38**	**129.7**
Carroll County	15	50.2	4	13.4	17	56.9	8	26.8	2	6.7	**46**	**153.9**
Charles City County	3	42.1	0	0.0	3	42.1	1	14.0	0	0.0	**7**	**98.2**

County/City of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Charlotte County	6	48.8	1	8.1	2	16.3	3	24.4	0	0.0	**12**	**97.5**
Charlottesville City	11	24.8	2	4.5	6	13.5	5	11.3	0	0.0	**24**	**54.1**
Chesapeake City	67	29.1	9	3.9	37	16.0	26	11.3	6	2.6	**145**	**62.9**
Chesterfield County	78	23.8	10	3.1	49	15.0	47	14.3	1	0.3	**185**	**56.4**
Clarke County	5	34.8	0	0.0	2	13.9	1	7.0	0	0.0	**8**	**55.8**
Colonial Heights City	5	28.4	1	5.7	4	22.7	2	11.3	0	0.0	**12**	**68.1**
Covington City	1	17.2	1	17.2	3	51.6	2	34.4	0	0.0	**7**	**120.3**
Craig County	4	76.8	0	0.0	2	38.4	4	76.8	0	0.0	**10**	**191.9**
Culpeper County	22	45.4	2	4.1	5	10.3	5	10.3	0	0.0	**34**	**70.1**
Cumberland County	9	91.5	0	0.0	2	20.3	3	30.5	0	0.0	**14**	**142.3**
Danville City	20	46.6	6	14.0	34	79.2	5	11.7	2	4.7	**67**	**156.2**
Dickenson County	8	51.7	1	6.5	9	58.1	7	45.2	0	0.0	**25**	**161.4**
Dinwiddie County	15	53.8	5	17.9	20	71.7	1	3.6	1	3.6	**42**	**150.5**
Emporia City	4	71.6	1	17.9	4	71.6	0	0.0	0	0.0	**9**	**161.1**
Essex County	2	17.8	1	8.9	0	0.0	2	17.8	0	0.0	**5**	**44.5**
Fairfax City	11	45.9	1	4.2	4	16.7	4	16.7	1	4.2	**21**	**87.6**
Fairfax County	197	17.4	9	0.8	122	10.8	109	9.6	13	1.1	**450**	**39.8**
Falls Church City	2	14.8	1	7.4	3	22.2	1	7.4	0	0.0	**7**	**51.8**
Fauquier County	30	44.6	2	3.0	18	26.8	16	23.8	0	0.0	**66**	**98.2**
Floyd County	10	64.4	0	0.0	2	12.9	5	32.2	0	0.0	**17**	**109.5**
Fluvanna County	5	19.2	1	3.8	7	26.9	6	23.1	1	3.8	**20**	**77.0**
Franklin City	2	23.2	0	0.0	2	23.2	1	11.6	0	0.0	**5**	**57.9**
Franklin County	17	30.2	3	5.3	12	21.3	12	21.3	2	3.6	**46**	**81.7**
Frederick County	36	44.3	1	1.2	7	8.6	12	14.8	2	2.5	**58**	**71.3**
Fredericksburg City	14	49.8	2	7.1	8	28.4	2	7.1	0	0.0	**26**	**92.4**

County/City of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Galax City	2	28.4	0	0.0	3	42.6	0	0.0	0	0.0	**5**	**71.1**
Giles County	12	70.9	1	5.9	5	29.5	3	17.7	0	0.0	**21**	**124.1**
Gloucester County	16	43.4	0	0.0	4	10.9	4	10.9	0	0.0	**24**	**65.2**
Goochland County	5	23.1	0	0.0	5	23.1	6	27.7	0	0.0	**16**	**74.0**
Grayson County	7	46.2	0	0.0	6	39.6	2	13.2	0	0.0	**15**	**98.9**
Greene County	5	26.6	0	0.0	5	26.6	1	5.3	0	0.0	**11**	**58.5**
Greensville County	3	25.2	3	25.2	16	134.6	4	33.7	0	0.0	**26**	**218.7**
Halifax County	9	25.4	0	0.0	7	19.8	3	8.5	0	0.0	**19**	**53.7**
Hampton City	38	27.8	23	16.8	30	21.9	17	12.4	3	2.2	**111**	**81.2**
Hanover County	36	35.5	1	1.0	19	18.8	21	20.7	0	0.0	**77**	**76.0**
Harrisonburg City	10	19.5	1	1.9	5	9.7	4	7.8	1	1.9	**21**	**40.9**
Henrico County	95	29.8	11	3.5	60	18.8	41	12.9	4	1.3	**211**	**66.2**
Henry County	23	43.7	3	5.7	16	30.4	9	17.1	1	1.9	**52**	**98.8**
Highland County	1	45.1	0	0.0	0	0.0	2	90.3	0	0.0	**3**	**135.4**
Hopewell City	3	13.5	3	13.5	7	31.6	4	18.0	1	4.5	**18**	**81.2**
Isle of Wight County	11	30.9	2	5.6	8	22.4	4	11.2	2	5.6	**27**	**75.7**
James City County	27	38.3	2	2.8	19	26.9	4	5.7	1	1.4	**53**	**75.2**
King and Queen County	4	56.1	1	14.0	3	42.1	0	0.0	0	0.0	**8**	**112.2**
King George County	13	52.2	0	0.0	5	20.1	8	32.1	0	0.0	**26**	**104.3**
King William County	8	49.7	0	0.0	1	6.2	2	12.4	0	0.0	**11**	**68.3**
Lancaster County	6	53.8	0	0.0	2	17.9	2	17.9	0	0.0	**10**	**89.7**
Lee County	11	43.7	2	7.9	8	31.8	4	15.9	0	0.0	**25**	**99.3**
Lexington City	2	27.9	0	0.0	3	41.8	1	13.9	0	0.0	**6**	**83.7**
Loudoun County	55	15.7	5	1.4	21	6.0	34	9.7	3	0.9	**118**	**33.7**
Louisa County	17	50.1	0	0.0	8	23.6	3	8.8	2	5.9	**30**	**88.4**

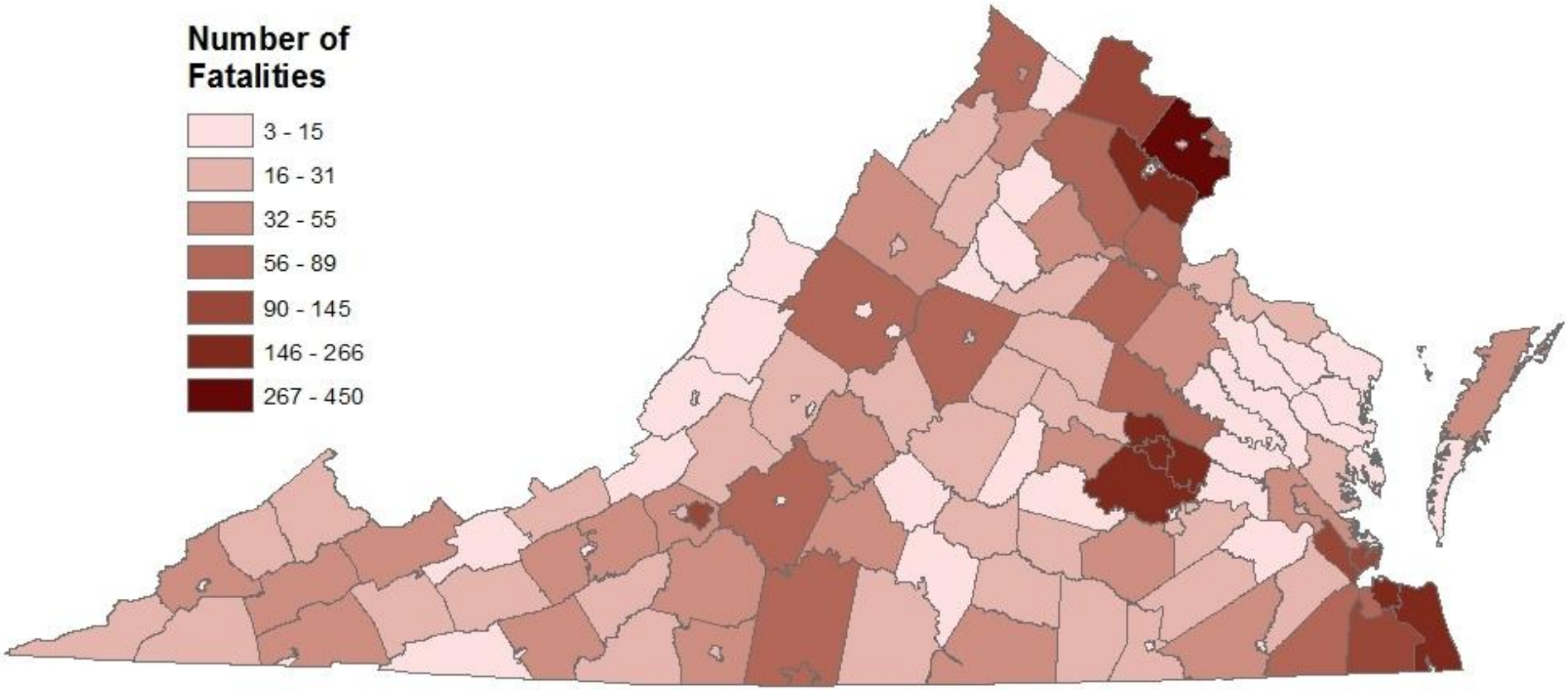
County/City of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Lunenburg County	7	55.9	0	0.0	6	47.9	2	16.0	1	8.0	**16**	**127.7**
Lynchburg City	25	32.0	2	2.6	18	23.1	4	5.1	2	2.6	**51**	**65.4**
Madison County	5	37.9	1	7.6	4	30.3	1	7.6	0	0.0	**11**	**83.3**
Manassas City	4	9.6	0	0.0	3	7.2	4	9.6	0	0.0	**11**	**26.4**
Manassas Park City	0	0.0	1	6.2	0	0.0	2	12.4	0	0.0	**3**	**18.6**
Martinsville City	10	72.7	2	14.5	6	43.6	3	21.8	0	0.0	**21**	**152.7**
Mathews County	6	67.4	0	0.0	1	11.2	1	11.2	0	0.0	**8**	**89.9**
Mecklenburg County	15	47.7	2	6.4	12	38.2	4	12.7	0	0.0	**33**	**105.0**
Middlesex County	4	37.2	1	9.3	3	27.9	4	37.2	0	0.0	**12**	**111.5**
Montgomery County	26	27.0	2	2.1	17	17.7	7	7.3	1	1.0	**53**	**55.1**
Nelson County	9	60.9	1	6.8	7	47.3	4	27.0	0	0.0	**21**	**142.0**
New Kent County	6	30.8	0	0.0	5	25.6	3	15.4	0	0.0	**14**	**71.8**
Newport News City	43	23.6	16	8.8	34	18.7	19	10.4	9	4.9	**121**	**66.5**
Norfolk City	89	36.2	31	12.6	81	32.9	30	12.2	19	7.7	**250**	**101.6**
Northampton County	5	41.2	2	16.5	5	41.2	2	16.5	1	8.2	**15**	**123.7**
Northumberland County	7	57.4	0	0.0	3	24.6	0	0.0	0	0.0	**10**	**82.0**
Norton City	2	49.8	0	0.0	0	0.0	0	0.0	1	24.9	**3**	**74.7**
Nottoway County	7	44.4	0	0.0	12	76.1	1	6.3	0	0.0	**20**	**126.8**
Orange County	19	54.8	0	0.0	4	11.5	6	17.3	1	2.9	**30**	**86.5**
Page County	10	42.0	0	0.0	3	12.6	5	21.0	0	0.0	**18**	**75.6**
Patrick County	12	65.3	0	0.0	5	27.2	9	49.0	0	0.0	**26**	**141.6**
Petersburg City	10	30.7	9	27.7	8	24.6	2	6.1	2	6.1	**31**	**95.3**
Pittsylvania County	22	35.2	1	1.6	23	36.8	16	25.6	0	0.0	**62**	**99.3**
Poquoson City	2	16.5	0	0.0	0	0.0	2	16.5	1	8.3	**5**	**41.3**
Portsmouth City	33	34.3	8	8.3	27	28.1	9	9.4	5	5.2	**82**	**85.2**

County/City of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Powhatan County	12	42.5	0	0.0	29	102.6	4	14.2	1	3.5	**46**	**162.8**
Prince Edward County	10	43.9	3	13.2	7	30.7	3	13.2	0	0.0	**23**	**100.9**
Prince George County	13	34.9	1	2.7	6	16.1	5	13.4	0	0.0	**25**	**67.1**
Prince William County	79	18.0	4	0.9	40	9.1	37	8.4	9	2.1	**169**	**38.5**
Pulaski County	18	52.2	1	2.9	8	23.2	7	20.3	1	2.9	**35**	**101.4**
Radford City	2	11.6	0	0.0	3	17.5	5	29.1	0	0.0	**10**	**58.2**
Rappahannock County	4	53.5	0	0.0	1	13.4	0	0.0	0	0.0	**5**	**66.9**
Richmond City	79	36.9	40	18.7	65	30.4	27	12.6	2	0.9	**213**	**99.5**
Richmond County	3	33.5	0	0.0	2	22.3	1	11.2	0	0.0	**6**	**67.0**
Roanoke City	57	57.9	11	11.2	28	28.4	16	16.2	3	3.0	**115**	**116.8**
Roanoke County	28	29.9	0	0.0	13	13.9	12	12.8	2	2.1	**55**	**58.8**
Rockbridge County	7	31.4	0	0.0	7	31.4	3	13.4	1	4.5	**18**	**80.7**
Rockingham County	22	28.3	0	0.0	11	14.1	10	12.9	1	1.3	**44**	**56.6**
Russell County	12	42.5	2	7.1	11	38.9	6	21.2	2	7.1	**33**	**116.8**
Salem City	12	47.4	2	7.9	5	19.8	6	23.7	0	0.0	**25**	**98.8**
Scott County	10	44.2	0	0.0	8	35.3	4	17.7	1	4.4	**23**	**101.6**
Shenandoah County	15	35.1	2	4.7	6	14.1	7	16.4	1	2.3	**31**	**72.6**
Smyth County	12	37.9	0	0.0	7	22.1	10	31.6	0	0.0	**29**	**91.6**
Southampton County	17	93.8	0	0.0	16	88.3	2	11.0	0	0.0	**35**	**193.1**
Spotsylvania County	39	30.6	4	3.1	20	15.7	15	11.8	3	2.4	**81**	**63.6**
Stafford County	33	24.1	5	3.7	22	16.1	19	13.9	2	1.5	**81**	**59.2**
Staunton City	4	16.4	1	4.1	5	20.5	3	12.3	0	0.0	**13**	**53.4**
Suffolk City	30	35.0	7	8.2	16	18.7	12	14.0	3	3.5	**68**	**79.3**
Surry County	4	59.1	0	0.0	1	14.8	1	14.8	0	0.0	**6**	**88.7**
Sussex County	3	25.4	2	16.9	6	50.8	4	33.9	1	8.5	**16**	**135.5**

County/City of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undetermined Total	Undetermined Rate	Total	Total Rate
Tazewell County	14	31.7	0	0.0	19	43.1	5	11.3	1	2.3	**39**	**88.4**
Virginia Beach City	119	26.5	19	4.2	68	15.2	49	10.9	11	2.5	**266**	**59.3**
Warren County	20	51.7	0	0.0	6	15.5	7	18.1	0	0.0	**33**	**85.3**
Washington County	10	18.2	2	3.6	24	43.7	9	16.4	1	1.8	**46**	**83.8**
Waynesboro City	8	37.6	0	0.0	1	4.7	4	18.8	0	0.0	**13**	**61.1**
Westmoreland County	7	39.7	0	0.0	11	62.5	3	17.0	0	0.0	**21**	**119.2**
Williamsburg City	6	39.5	0	0.0	13	85.5	0	0.0	1	6.6	**20**	**131.5**
Winchester City	17	62.5	1	3.7	13	47.8	3	11.0	1	3.7	**35**	**128.6**
Wise County	23	56.7	0	0.0	12	29.6	3	7.4	2	4.9	**40**	**98.5**
Wythe County	14	47.7	0	0.0	10	34.1	3	10.2	0	0.0	**27**	**92.0**
York County	16	24.1	2	3.0	9	13.6	7	10.6	2	3.0	**36**	**54.3**
Subtotal (in state)	2455	29.7	332	4.0	1688	20.4	1056	12.8	154	1.9	**5685**	**68.8**
Out of State	69	ND	5	ND	14	ND	6	ND	5	ND	**99**	**ND**
Unknown	11	ND	3	ND	5	ND	0	ND	5	ND	**24**	**ND**
Subtotal (out of state)	80	ND	8	ND	19	ND	6	ND	10	ND	**123**	**ND**
TOTAL	**2535**	**30.7**	**340**	**4.1**	**1707**	**20.7**	**1062**	**12.9**	**164**	**2.0**	**5808**	**70.3**

Note: No denominator is represented by ND

Map 1.3 Total Number of OCME Cases by Locality of Injury, 2013



Map 1.4 Rate of OCME Cases by Locality of Injury, 2013

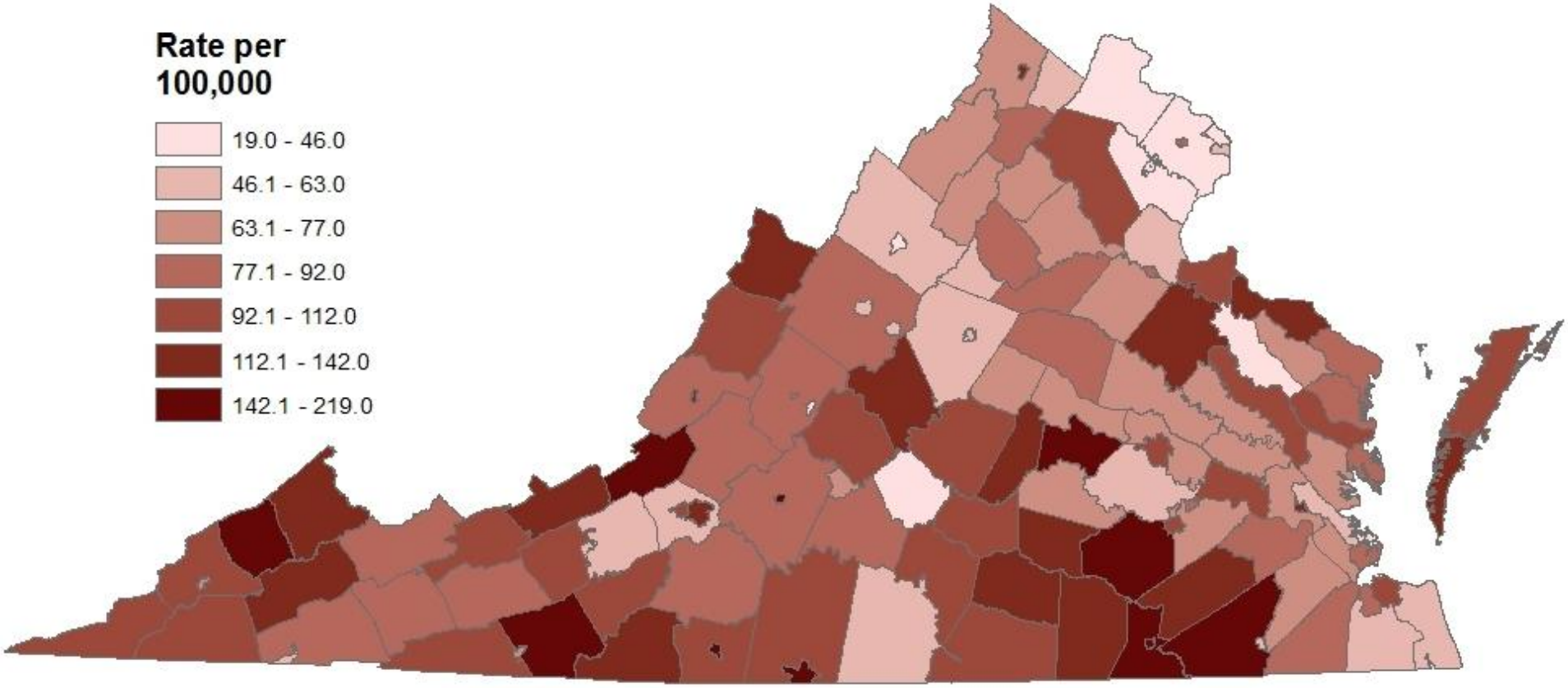


Table 1.10 Total Number of OCME Cases by Manner of Death and Locality of Death, 2013

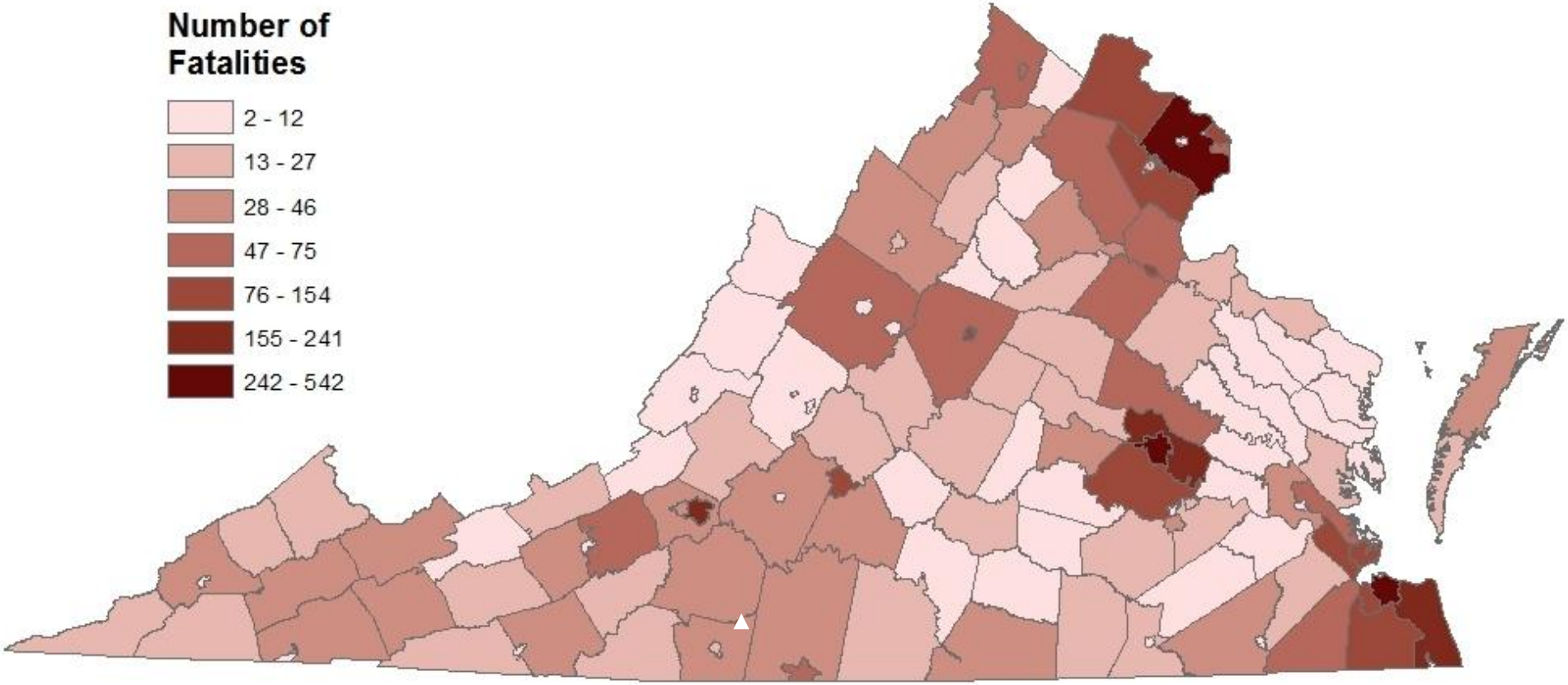
County/City of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Accomack County	10	3	14	3	1	**31**
Albemarle County	26	2	15	12	0	**55**
Alexandria City	19	6	30	15	2	**72**
Alleghany County	6	2	2	2	0	**12**
Amelia County	2	0	2	1	0	**5**
Amherst County	6	1	18	1	0	**26**
Appomattox County	3	0	1	1	0	**5**
Arlington County	43	0	35	17	2	**97**
Augusta County	31	0	9	19	0	**59**
Bath County	0	0	1	2	0	**3**
Bedford City	2	0	5	3	0	**10**
Bedford County	17	0	15	9	0	**41**
Bland County	2	0	3	1	0	**6**
Botetourt County	7	1	5	7	1	**21**
Bristol City	1	0	8	1	0	**10**
Brunswick County	14	0	3	2	0	**19**
Buchanan County	12	0	10	4	0	**26**
Buckingham County	2	0	9	4	0	**15**
Buena Vista City	0	1	1	1	0	**3**
Campbell County	11	3	11	12	0	**37**
Caroline County	12	0	9	6	0	**27**
Carroll County	14	3	12	8	2	**39**
Charles City County	3	0	3	1	0	**7**
Charlotte County	5	1	2	3	0	**11**
Charlottesville City	69	6	12	12	6	**105**
Chesapeake City	50	8	32	23	6	**119**
Chesterfield County	57	9	40	41	1	**148**
Clarke County	1	0	2	0	0	**3**
Colonial Heights City	3	0	4	2	0	**9**
Covington City	1	1	3	1	0	**6**
Craig County	3	0	2	4	0	**9**
Culpeper County	18	2	4	5	0	**29**
Cumberland County	6	0	2	3	0	**11**
Danville City	21	5	41	6	2	**75**

County/City of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Dickenson County	8	1	9	7	0	**25**
Dinwiddie County	9	4	11	1	1	**26**
Emporia City	2	0	8	1	0	**11**
Essex County	4	1	0	2	0	**7**
Fairfax City	6	0	2	3	0	**11**
Fairfax County	266	10	128	120	18	**542**
Falls Church City	0	1	3	1	0	**5**
Fauquier County	23	2	17	14	0	**56**
Floyd County	9	0	1	5	0	**15**
Fluvanna County	4	0	4	6	0	**14**
Franklin City	4	0	3	1	0	**8**
Franklin County	10	4	10	12	2	**38**
Frederick County	32	2	6	10	1	**51**
Fredericksburg City	58	4	14	9	1	**86**
Galax City	2	0	8	0	0	**10**
Giles County	8	0	5	2	0	**15**
Gloucester County	14	0	6	6	0	**26**
Goochland County	3	1	5	5	0	**14**
Grayson County	7	1	5	2	0	**15**
Greene County	3	0	4	1	0	**8**
Greensville County	2	2	8	2	0	**14**
Halifax County	9	0	7	3	0	**19**
Hampton City	28	20	30	16	3	**97**
Hanover County	32	0	22	20	0	**74**
Harrisonburg City	8	1	3	2	0	**14**
Henrico County	82	6	55	36	4	**183**
Henry County	18	1	15	8	0	**42**
Highland County	1	0	0	2	0	**3**
Hopewell City	5	2	11	4	1	**23**
Isle of Wight County	8	1	5	4	0	**18**
James City County	16	2	10	4	1	**33**
King and Queen County	3	0	2	0	0	**5**
King George County	7	0	4	8	0	**19**
King William County	5	0	1	2	0	**8**
Lancaster County	4	0	3	2	0	**9**

County/City of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Lee County	10	2	8	4	0	**24**
Lexington City	3	0	2	1	1	**7**
Loudoun County	37	5	21	30	2	**95**
Louisa County	14	0	8	3	0	**25**
Lunenburg County	4	1	4	1	0	**10**
Lynchburg City	54	1	23	7	3	**88**
Madison County	2	1	4	1	0	**8**
Manassas City	11	1	4	3	0	**19**
Manassas Park City	0	1	0	3	0	**4**
Martinsville City	12	2	6	3	1	**24**
Mathews County	6	0	1	1	0	**8**
Mecklenburg County	14	2	15	4	2	**37**
Middlesex County	2	1	1	2	0	**6**
Montgomery County	24	2	18	6	1	**51**
Nelson County	6	1	7	3	0	**17**
New Kent County	4	0	4	3	0	**11**
Newport News City	66	18	38	22	10	**154**
Norfolk City	151	38	89	34	28	**340**
Northampton County	6	4	6	3	1	**20**
Northumberland County	1	0	2	0	0	**3**
Norton City	5	0	2	1	1	**9**
Nottoway County	2	0	6	0	0	**8**
Orange County	15	0	4	5	0	**24**
Page County	6	0	3	5	0	**14**
Patrick County	11	0	5	9	0	**25**
Petersburg City	14	6	18	3	2	**43**
Pittsylvania County	15	0	16	15	0	**46**
Poquoson City	2	0	0	2	0	**4**
Portsmouth City	34	7	33	9	5	**88**
Powhatan County	9	0	23	3	1	**36**
Prince Edward County	12	3	9	3	0	**27**
Prince George County	9	1	3	5	0	**18**
Prince William County	53	5	39	36	8	**141**
Pulaski County	13	1	8	6	1	**29**
Radford City	3	0	3	4	0	**10**

County/City of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Rappahannock County	0	0	2	0	0	**2**
Richmond City	181	56	98	45	3	**383**
Richmond County	2	0	2	1	0	**5**
Roanoke City	122	18	41	27	5	**213**
Roanoke County	20	0	7	8	1	**36**
Rockbridge County	2	0	7	2	0	**11**
Rockingham County	15	0	13	9	2	**39**
Russell County	11	2	10	6	1	**30**
Salem City	16	0	9	6	0	**31**
Scott County	10	0	8	4	1	**23**
Shenandoah County	13	1	6	7	1	**28**
Smyth County	12	0	7	10	0	**29**
Southampton County	12	0	15	2	0	**29**
Spotsylvania County	23	3	21	12	3	**62**
Stafford County	16	3	19	16	1	**55**
Staunton City	1	1	5	3	0	**10**
Suffolk City	19	6	17	12	2	**56**
Surry County	3	0	1	1	0	**5**
Sussex County	0	2	5	4	1	**12**
Tazewell County	13	0	19	5	1	**38**
Virginia Beach City	102	17	64	48	10	**241**
Warren County	16	0	6	7	0	**29**
Washington County	10	2	24	8	0	**44**
Waynesboro City	4	0	1	4	0	**9**
Westmoreland County	2	0	10	3	0	**15**
Williamsburg City	3	0	6	0	1	**10**
Winchester City	45	1	15	7	3	**71**
Wise County	21	0	10	2	2	**35**
Wythe County	12	0	10	3	0	**25**
York County	19	4	23	6	2	**54**
Subtotal (in state)	2532	339	1704	1061	162	**5798**
Out of State	2	1	3	1	2	**9**
Unknown	1	0	0	0	0	**1**
Subtotal (out of state)	3	1	3	1	2	**10**
TOTAL	**2535**	**340**	**1707**	**1062**	**164**	**5808**

Map 1.5 Total Number of OCME Cases by Locality of Death, 2013



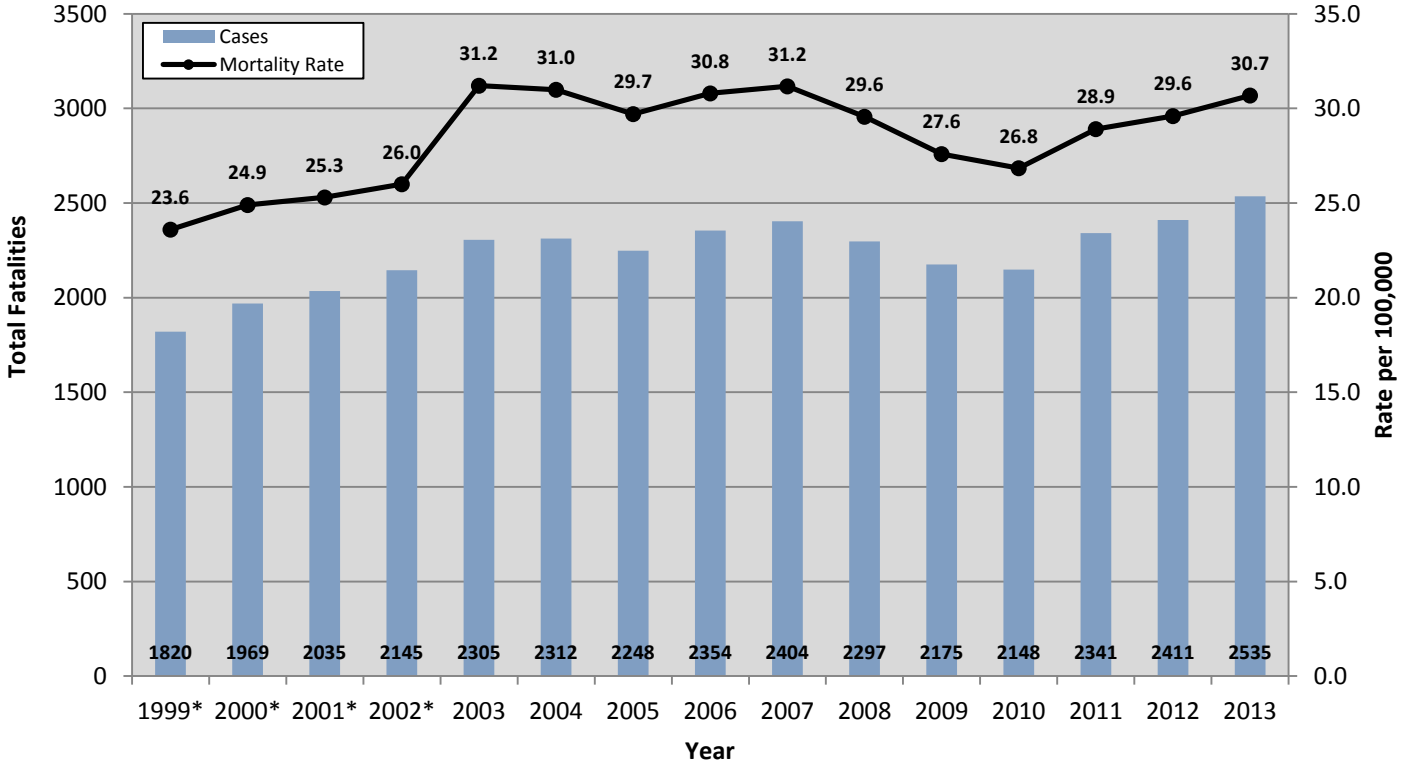
SECTION 2: MANNER OF DEATH

ACCIDENTAL DEATHS (N=2,535)

Accidents account for 43.6% of the deaths investigated by the OCME in 2013, which is the greatest proportion of deaths by any manner.

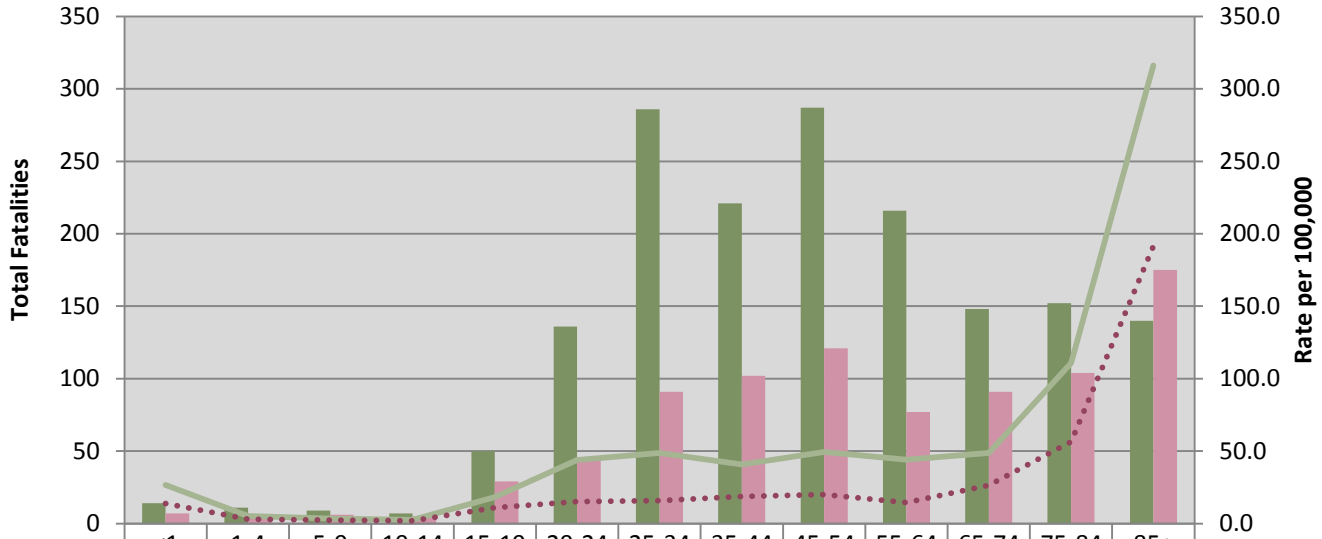
- The total number of accidental deaths increased 5.1% from 2012
- Motor vehicle deaths remained the most common cause of accidental deaths with 31.5% of all accidents followed, by drug use with 30.3%
- Seniors aged 85 and older had the highest rate of accidental falls (194.5 per 100,000 persons)
- Twenty-three percent of decedents with an accidental death had ethanol present, with 16.8% of all accidental deaths having a blood alcohol level of 0.08% or greater, the level of legal intoxication

Figure 2.1 Total Number and Rate of OCME Accidental Deaths by Year of Death, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports.

Figure 2.2 Total Number and Rate of OCME Accidental Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	14	11	9	7	50	136	286	221	287	216	148	152	140
Female	7	6	6	5	29	44	91	102	121	77	91	104	175
Male Rate	26.7	5.3	3.4	2.6	18.3	43.8	48.7	40.9	49.4	44.0	48.8	110.9	316.2
Female Rate	13.9	3.0	2.3	2.0	11.0	15.1	15.9	18.6	19.9	14.5	26.4	56.5	191.3

Age group (years)

Figure 2.3 Percentage of OCME Accidental Deaths by Race/Ethnicity, 2013

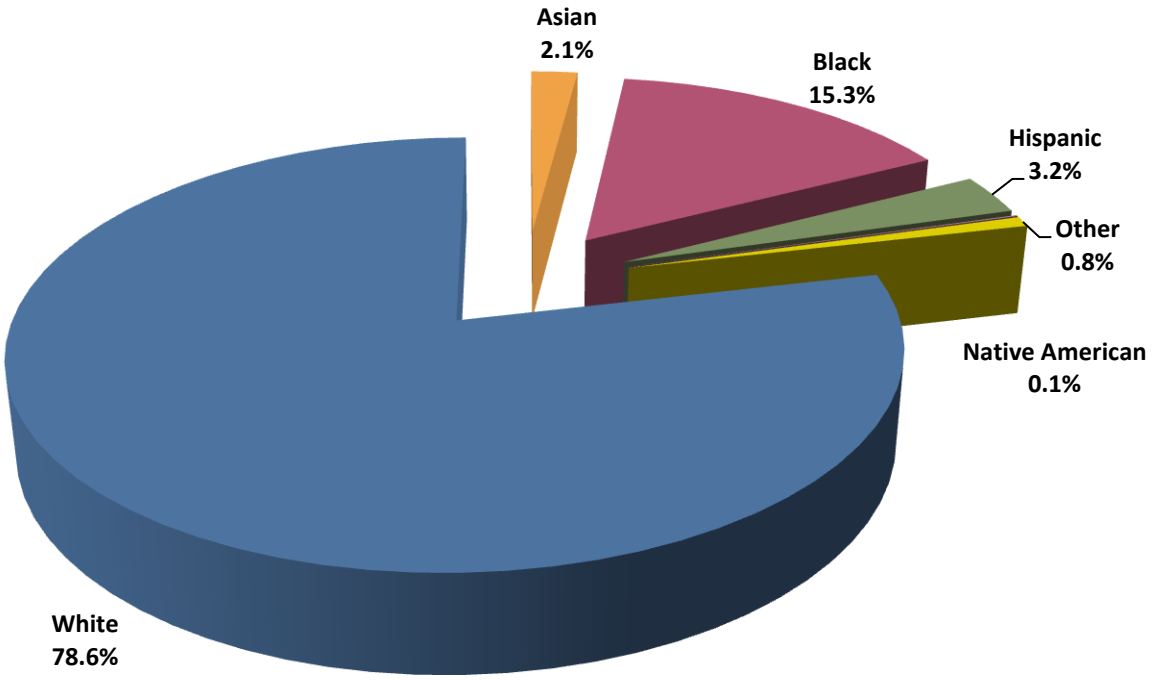
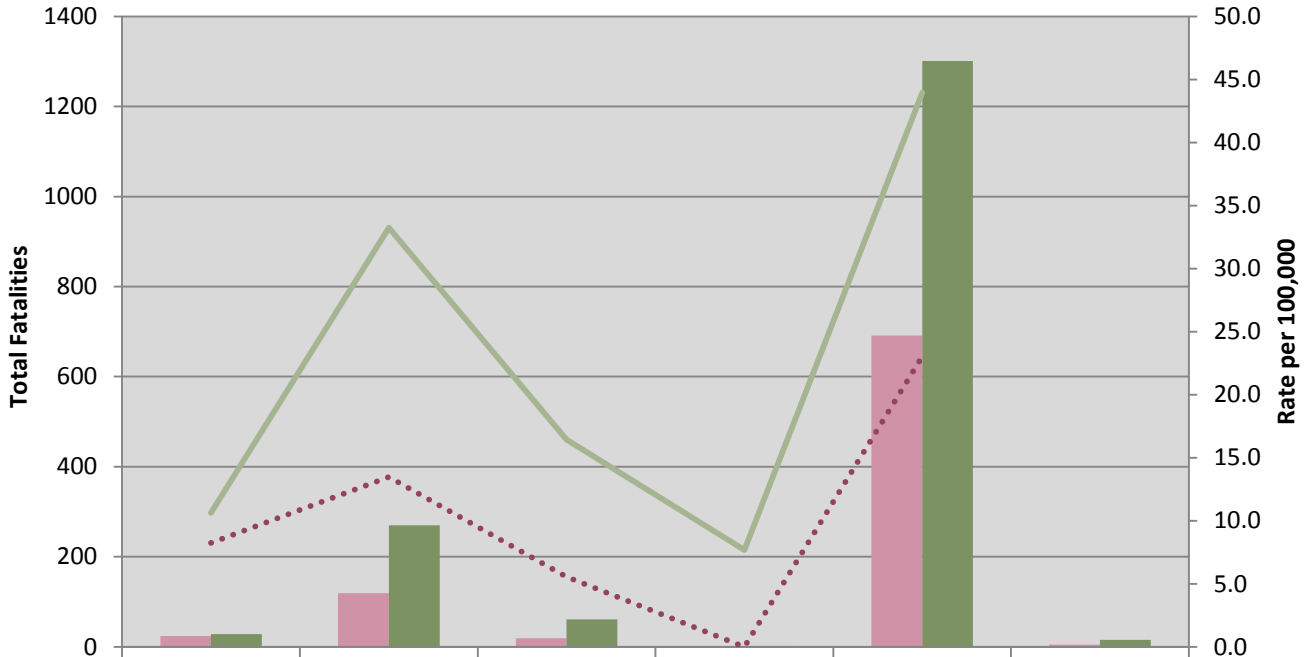


Figure 2.4 Number and Rate of OCME Accidental Deaths by Race/Ethnicity and Gender, 2013



	Asian	Black	Hispanic	Native American	White	Other
Female	24	119	19	0	691	5
Male	28	270	61	2	1301	15
Female Rate	8.3	13.5	5.6	0.0	23.0	*
Male Rate	10.6	33.2	16.4	7.7	43.9	*

Race/Ethnicity

*No rate can be calcualted

Table 2.1 Total Number of OCME Accidental Death by Cause and Method of Death, 2013

Method of Death	Autopsied	Total Cases
Animal/Insect		
Bit, stung, or kicked by an animal/insect	3	**6**
Asphyxia		
Choked on food/foreign object	6	**40**
Drowned	60	**90**
Hanged	2	**3**
Inhaled toxic agent (carbon monoxide)	1	**3**
Mechanical/Positional asphyxia	19	**26**
Other asphyxia	3	**3**
Strangled	1	**1**
Suffocated/Smothered	13	**13**
Drug Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	617	**767**
Electrical		
Contacted electrical current	4	**4**
Exposure		
Exposed to cold	22	**27**
Exposed to heat	2	**3**
Fall/Jump		
Fell/jumped from any height	70	**616**
Fire		
Thermal burns and/or inhalation of combustion products	44	**78**
Motor Vehicle Collision		
Aircraft	5	**10**
All terrain vehicle	1	**6**
Bicycle	1	**8**
Boat	1	**2**
Bus	1	**2**
Car	54	**385**
Construction equipment	1	**4**
Farm equipment	1	**7**
Fire truck	0	**1**
Jet Ski	0	**2**
Lawnmower	1	**1**

Mo-ped	2	**14**
Motorcycle	1	**71**
Pickup truck	16	**89**
Sport utility vehicle	12	**103**
Tractor trailer	13	**19**
Train	3	**7**
Truck (other)	6	**13**
Van	10	**25**
Unspecified/unknown	3	**30**
Traumatic Injury		
Accidental discharge of firearm		
Handgun	3	**3**
Shotgun	2	**2**
Beaten/Battered	0	**1**
Hit/Crushed by falling object	14	**28**
Sharp force injury	3	**5**
Other/Undetermined		
Other	11	**15**
Undetermined	0	**2**
TOTAL ACCIDENTAL DEATHS	**1032**	**2535**

Table 2.2 Number and Rate of the OCME's Top 5 Accidental Methods of Death by Age Group, 2013

Age Group	Method of Death: Asphyxia-Drowned		Drug Poisoning		Fell/Jump from Height		Fire		Motor Vehicle Collision		TOTAL
	Total	Rate	Total	Rate	Total	Rate	Total	Rate	Total	Rate	
<1	1	1.0	0	0.0	0	0.0	1	1.0	3	2.9	**5**
1-4	4	1.0	2	0.5	1	0.2	2	0.5	5	1.2	**14**
5-9	3	0.6	1	0.2	0	0.0	1	0.2	7	1.3	**12**
10-14	2	0.4	0	0.0	1	0.2	0	0.0	7	1.3	**10**
15-19	13	2.4	10	1.9	3	0.6	4	0.7	45	8.4	**75**
20-24	8	1.3	66	11.0	4	0.7	2	0.3	94	15.6	**174**
25-34	8	0.7	212	18.3	7	0.6	3	0.3	133	11.5	**363**
35-44	12	1.1	183	16.8	16	1.5	9	0.8	87	8.0	**307**
45-54	13	1.1	184	15.5	25	2.1	10	0.8	137	11.5	**369**
55-64	13	1.3	92	9.0	40	3.9	12	1.2	102	10.0	**259**
65-74	11	1.7	14	2.2	85	13.1	14	2.2	98	15.1	**222**
75-84	1	0.3	1	0.3	170	52.9	12	3.7	56	17.4	**240**
85+	1	0.7	2	1.5	264	194.5	8	5.9	25	18.4	**300**
TOTAL	**90**	**1.1**	**767**	**9.3**	**616**	**7.5**	**78**	**0.9**	**799**	**9.7**	**2350**

Note: Highlighted pink cells indicate the highest rate among the method of death within the corresponding age group; rates are per 100,000

Figure 2.5 Total Number of OCME Accidental Deaths by Age Group and Ethanol Level, 2013

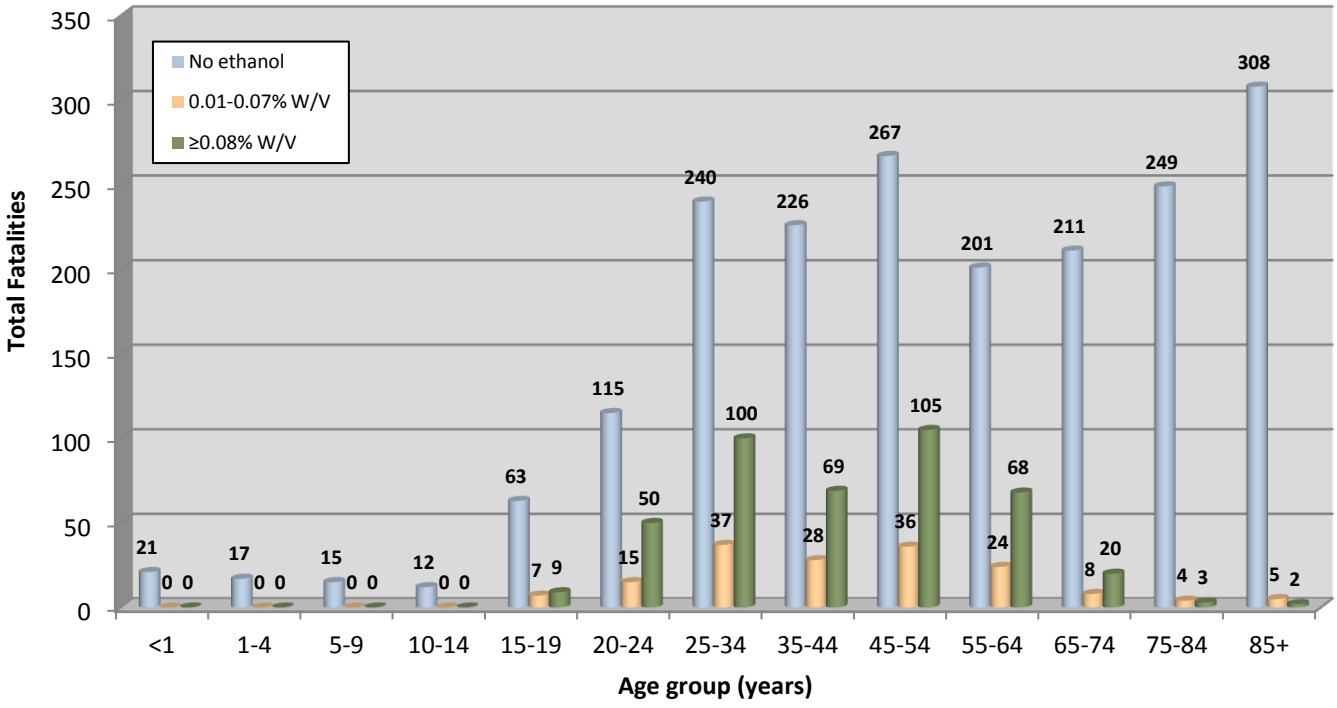


Figure 2.6 Total Number of OCME Accidental Deaths by Ethanol Level and Gender, 2013

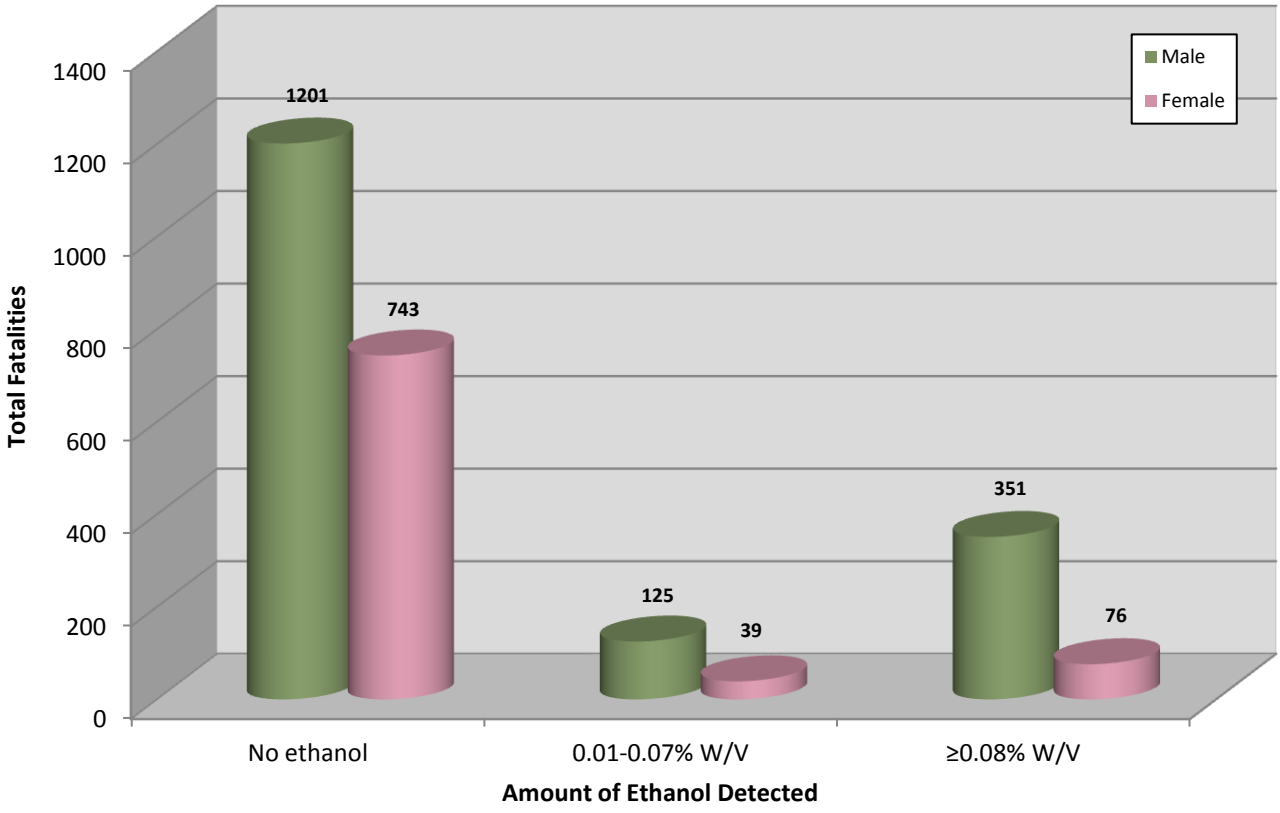


Figure 2.7 Total Number of the OCME's Top 5 Accidental Methods of Death by Ethanol Level, 2013

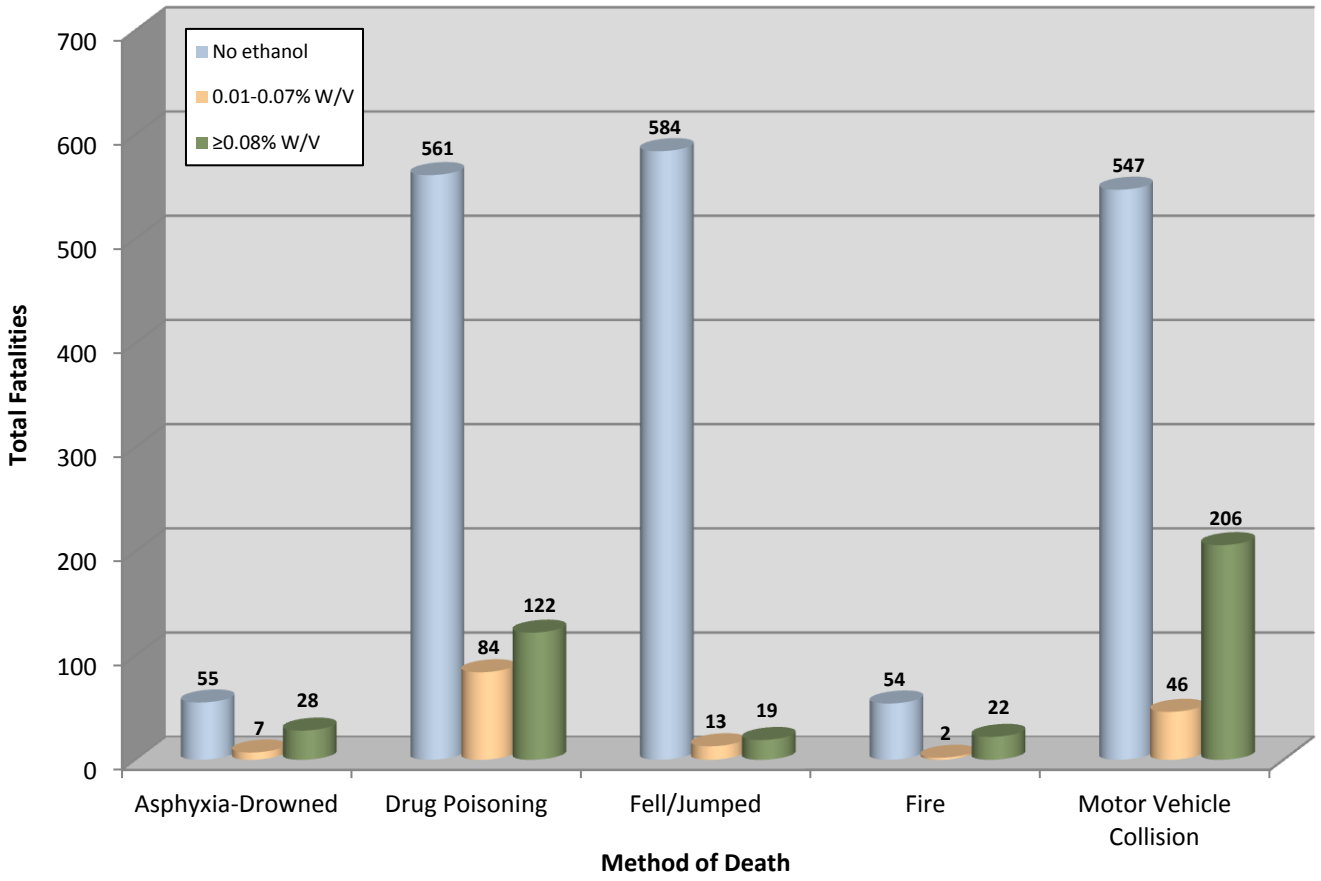


Figure 2.8 Total Number of OCME Accidental Deaths by Month of Death, 2013

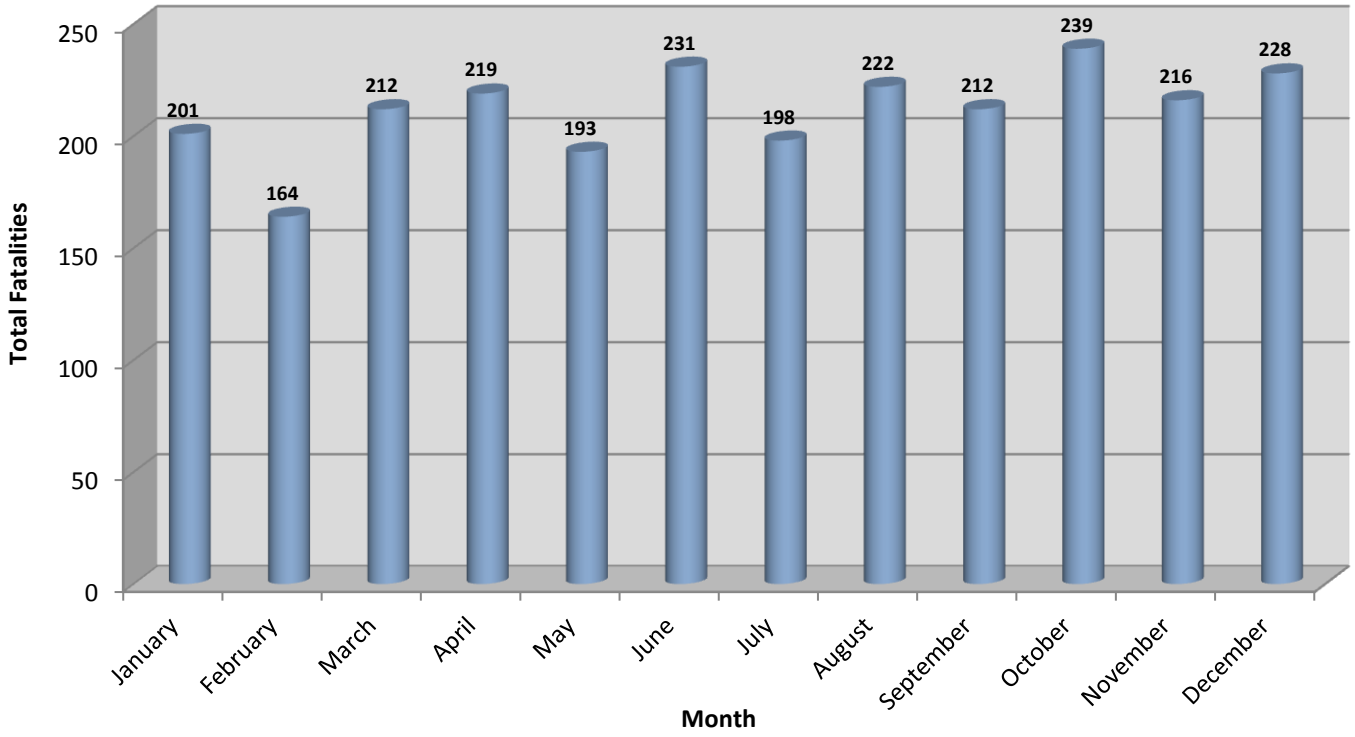


Figure 2.9 Total Number of OCME Accidental Deaths by Day of Death, 2013

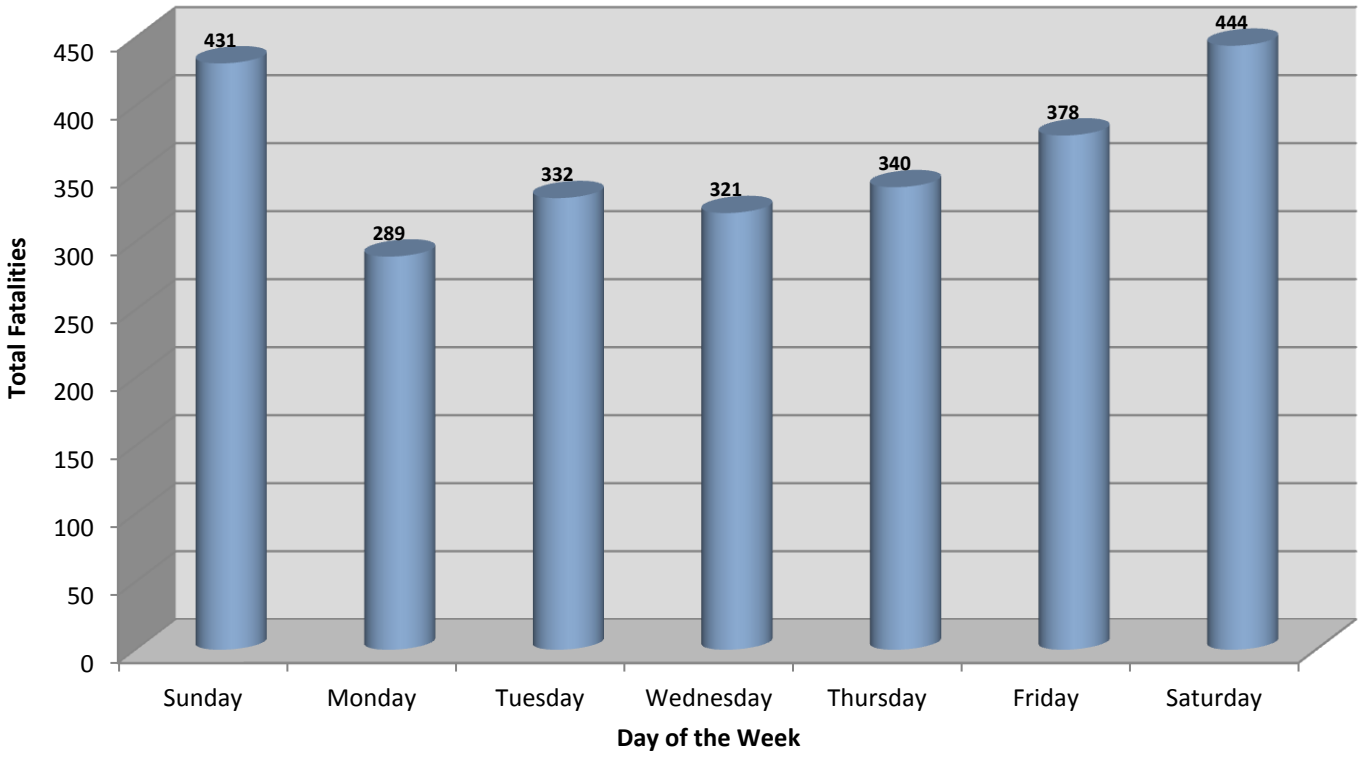


Table 2.3 Total Number of OCME Accidental Death Cases by Locality of Injury and Year of Death, 2006-2013

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Accomack County	22	20	11	19	18	16	15	12	**133**
Albemarle County	17	20	33	25	28	34	28	32	**217**
Alexandria City	21	21	21	22	14	22	16	21	**158**
Alleghany County	10	14	8	5	6	4	7	8	**62**
Amelia County	4	7	11	9	4	8	9	5	**57**
Amherst County	11	8	16	9	5	17	19	12	**97**
Appomattox County	2	6	7	4	3	5	4	4	**35**
Arlington County	18	20	30	34	27	24	34	32	**219**
Augusta County	26	35	38	33	31	27	33	32	**255**
Bath County	2	3	1	4	3	3	6	2	**24**
Bedford City	3	5	5	4	4	2	0	2	**25**
Bedford County	22	27	16	30	31	24	40	32	**222**
Bland County	0	6	2	7	4	7	2	2	**30**
Botetourt County	12	12	13	11	11	19	15	12	**105**
Bristol City	6	10	3	3	7	5	7	1	**42**
Brunswick County	16	7	6	8	13	8	14	15	**87**
Buchanan County	21	18	19	11	23	18	20	13	**143**
Buckingham County	3	9	6	3	5	5	7	5	**43**
Buena Vista City	0	0	1	2	0	1	2	0	**6**
Campbell County	32	16	31	12	17	14	25	21	**168**
Caroline County	9	14	8	9	13	14	10	17	**94**
Carroll County	17	15	19	11	7	13	14	15	**111**
Charles City County	4	8	7	7	7	6	5	3	**47**
Charlotte County	4	6	6	5	6	9	6	6	**48**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Charlottesville City	21	28	11	16	12	9	8	11	**116**
Chesapeake City	55	60	47	53	43	58	57	67	**440**
Chesterfield County	56	71	92	68	70	74	82	78	**591**
Clarke County	5	6	5	8	10	4	8	5	**51**
Colonial Heights City	6	3	4	2	2	3	3	5	**28**
Covington City	4	0	2	2	0	1	0	1	**10**
Craig County	7	2	2	4	2	2	1	4	**24**
Culpeper County	16	24	12	12	14	15	20	22	**135**
Cumberland County	1	2	4	3	2	3	4	9	**28**
Danville City	16	13	22	20	20	19	16	20	**146**
Dickenson County	11	16	13	5	11	13	10	8	**87**
Dinwiddie County	12	14	20	12	10	8	9	15	**100**
Emporia City	2	8	2	1	3	3	3	4	**26**
Essex County	4	7	4	7	5	8	3	2	**40**
Fairfax City	3	4	5	11	5	7	11	11	**57**
Fairfax County	221	157	144	149	152	195	184	197	**1399**
Falls Church City	2	1	0	1	1	6	0	2	**13**
Fauquier County	21	32	26	33	32	33	27	30	**234**
Floyd County	13	10	5	8	5	10	5	10	**66**
Fluvanna County	9	7	14	7	6	5	7	5	**60**
Franklin City	2	2	1	1	2	0	1	2	**11**
Franklin County	27	22	23	26	21	33	38	17	**207**
Frederick County	24	25	26	31	27	29	25	36	**223**
Fredericksburg City	22	14	15	6	11	12	20	14	**114**
Galax City	0	3	0	0	0	3	4	2	**12**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Giles County	9	5	9	9	10	3	10	12	**67**
Gloucester County	21	10	16	10	20	14	12	16	**119**
Goochland County	6	15	10	14	8	8	13	5	**79**
Grayson County	13	5	2	6	5	5	6	7	**49**
Greene County	4	14	5	4	7	2	9	5	**50**
Greensville County	10	3	2	5	6	2	5	3	**36**
Halifax County	15	22	27	14	20	16	9	9	**132**
Hampton City	31	28	28	25	35	38	24	38	**247**
Hanover County	21	27	26	13	18	30	26	36	**197**
Harrisonburg City	11	1	3	5	4	8	6	10	**48**
Henrico County	89	66	76	73	70	58	72	95	**599**
Henry County	34	15	34	22	26	31	31	23	**216**
Highland County	1	2	2	2	2	1	0	1	**11**
Hopewell City	5	8	6	7	7	6	6	3	**48**
Isle of Wight County	16	16	15	12	13	7	11	11	**101**
James City County	17	8	24	16	13	19	11	27	**135**
King and Queen County	5	7	5	8	2	1	3	4	**35**
King George County	5	7	8	10	2	8	10	13	**63**
King William County	3	7	5	9	2	6	6	8	**46**
Lancaster County	9	9	6	2	2	8	2	6	**44**
Lee County	11	16	10	13	8	15	11	11	**95**
Lexington City	3	2	1	2	4	1	2	2	**17**
Loudoun County	23	37	27	29	32	36	52	55	**291**
Louisa County	16	24	17	21	14	11	13	17	**133**
Lunenburg County	6	11	9	5	2	1	6	7	**47**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Lynchburg City	13	24	24	16	25	21	34	25	**182**
Madison County	3	9	6	3	5	4	6	5	**41**
Manassas City	8	8	6	12	4	6	14	4	**62**
Manassas Park City	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	2	0	**2**
Martinsville City	8	3	8	6	7	7	6	10	**55**
Mathews County	8	4	1	4	2	2	3	6	**30**
Mecklenburg County	18	17	11	16	10	13	13	15	**113**
Middlesex County	3	7	6	6	6	1	4	4	**37**
Montgomery County	15	24	27	24	30	28	23	26	**197**
Nelson County	6	12	6	11	6	9	9	9	**68**
New Kent County	15	6	7	8	12	11	9	6	**74**
Newport News City	52	36	36	53	40	45	33	43	**338**
Norfolk City	59	79	59	67	49	73	71	89	**546**
Northampton County	6	8	10	9	5	3	2	5	**48**
Northumberland County	2	3	8	4	6	9	8	7	**47**
Norton City	3	0	1	1	2	0	1	2	**10**
Nottoway County	6	8	3	14	6	7	5	7	**56**
Orange County	6	14	13	10	14	16	9	19	**101**
Page County	4	10	4	7	8	14	12	10	**69**
Patrick County	5	7	11	8	8	5	9	12	**65**
Petersburg City	16	22	14	14	13	3	11	10	**103**
Pittsylvania County	28	30	37	29	25	27	34	22	**232**
Poquoson City	5	1	1	3	1	2	0	2	**15**
Portsmouth City	29	20	18	29	23	28	19	33	**199**
Powhatan County	14	6	7	5	3	7	12	12	**66**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Prince Edward County	9	16	5	14	11	4	9	10	**78**
Prince George County	9	12	12	10	12	11	12	13	**91**
Prince William County	69	57	65	64	75	82	92	79	**583**
Pulaski County	16	23	19	15	19	19	14	18	**143**
Radford City	2	5	9	3	8	3	8	2	**40**
Rappahannock County	0	4	2	3	6	4	5	4	**28**
Richmond City	127	132	85	69	66	88	77	79	**723**
Richmond County	2	2	6	2	4	4	5	3	**28**
Roanoke City	37	30	32	41	36	39	40	57	**312**
Roanoke County	27	22	23	19	17	26	27	28	**189**
Rockbridge County	12	14	10	13	7	10	14	7	**87**
Rockingham County	30	21	19	16	18	16	25	22	**167**
Russell County	19	19	15	11	16	20	14	12	**126**
Salem City	13	7	8	8	8	4	12	12	**72**
Scott County	6	8	10	9	5	8	9	10	**65**
Shenandoah County	14	5	24	13	12	15	17	15	**115**
Smyth County	13	10	11	7	12	10	9	12	**84**
Southampton County	10	15	10	10	11	6	8	17	**87**
Spotsylvania County	29	39	30	29	43	36	34	39	**279**
Stafford County	18	43	25	24	21	23	33	33	**220**
Staunton City	7	6	8	7	5	8	3	4	**48**
Suffolk City	16	36	26	17	30	26	25	30	**206**
Surry County	2	7	4	1	6	2	1	4	**27**
Sussex County	13	15	17	11	12	5	2	3	**78**
Tazewell County	36	11	16	19	25	30	23	14	**174**

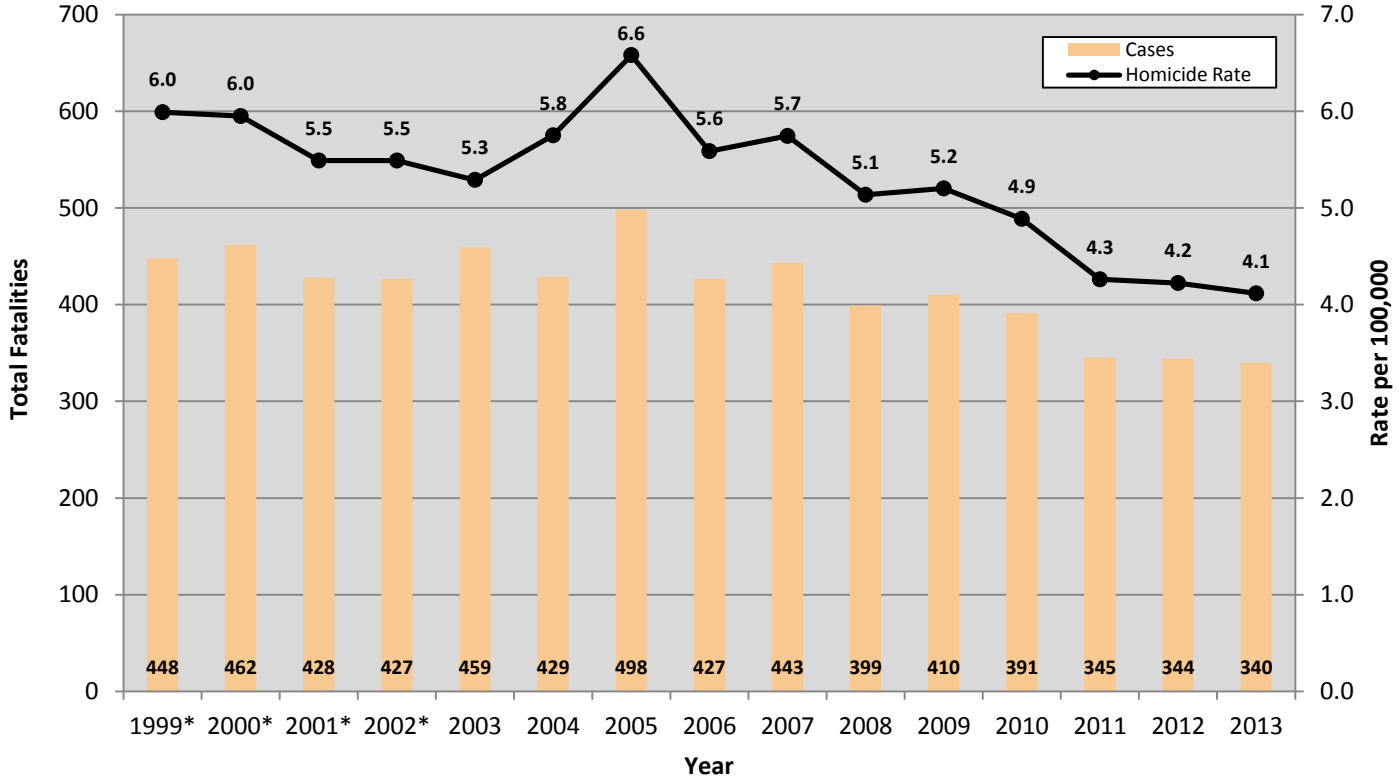
County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Virginia Beach City	101	105	102	110	77	112	111	119	**837**
Warren County	6	11	17	9	25	23	15	20	**126**
Washington County	18	20	22	14	21	28	16	10	**149**
Waynesboro City	7	2	7	6	7	3	13	8	**53**
Westmoreland County	13	10	11	6	11	10	7	7	**75**
Williamsburg City	6	5	3	6	2	9	5	6	**42**
Winchester City	15	2	4	10	7	7	16	17	**78**
Wise County	31	28	15	22	22	23	19	23	**183**
Wythe County	11	14	24	12	13	9	17	14	**114**
York County	14	17	14	7	15	17	8	16	**108**
Subtotal (in state)	**2316**	**2334**	**2224**	**2105**	**2080**	**2274**	**2334**	**2455**	**18122**
Out of State	29	52	46	52	54	54	59	69	**415**
Unknown	8	18	27	18	14	13	18	11	**127**
Subtotal (out of state)	**37**	**70**	**73**	**70**	**68**	**67**	**77**	**80**	**542**
TOTAL	**2353**	**2404**	**2297**	**2175**	**2148**	**2341**	**2411**	**2535**	**18664**

HOMICIDE DEATHS (N=340)

The number of homicides in 2013 versus 2012 slightly decreased (1.2%). As previous years have shown, homicides most frequently occurred among males (77.9%) and among blacks (59.4%). Males aged 20-24 years demonstrate the highest homicide rate with 18.0 deaths per 100,000 persons.

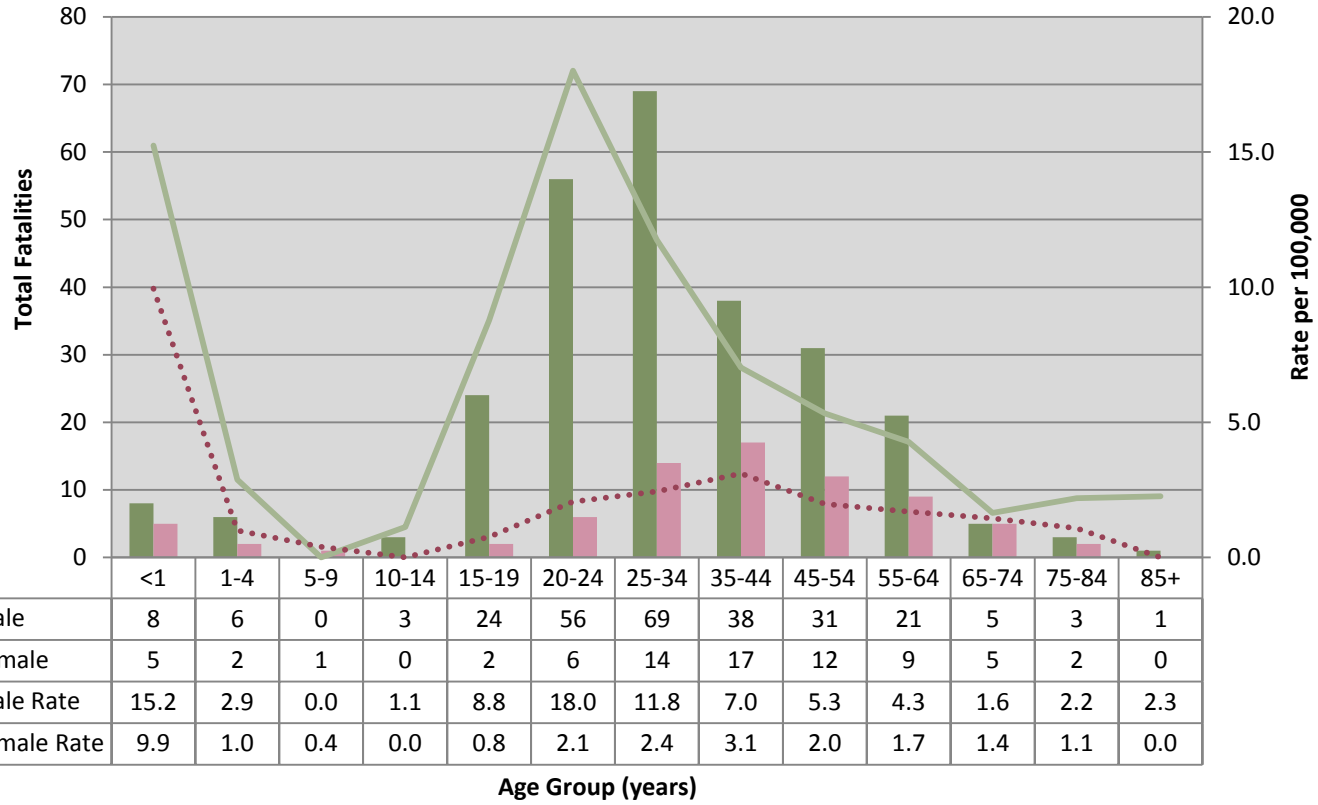
- Nearly seventy-two percent of all homicides were committed using a firearm, with handguns (the most common type) used in 75.8% of all firearm homicides
- Fifty-four percent of all homicides in the Commonwealth were committed using a handgun
- Almost thirty-eight percent of all homicide victims had ethanol present, with 22.4% of all homicide victims having a blood alcohol of 0.08% W/V or greater
- Richmond City had both the largest number of residential homicides (n=34) and homicides by location of injury (n=40), but Emporia City and Petersburg City had the highest residential homicide rate and highest homicide rate by location of injury (rate of 35.8 and 27.7 per 100,000, respectively)

Figure 2.10 Total Number and Rate of OCME Homicide Deaths by Year of Death, 1999-2013



* Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop): stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME annual reports.

Figure 2.11 Total Number and Rate of OCME Homicide Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	8	6	0	3	24	56	69	38	31	21	5	3	1
Female	5	2	1	0	2	6	14	17	12	9	5	2	0
Male Rate	15.2	2.9	0.0	1.1	8.8	18.0	11.8	7.0	5.3	4.3	1.6	2.2	2.3
Female Rate	9.9	1.0	0.4	0.0	0.8	2.1	2.4	3.1	2.0	1.7	1.4	1.1	0.0

Figure 2.12 Percentage of OCME Homicide Deaths by Race/Ethnicity, 2013

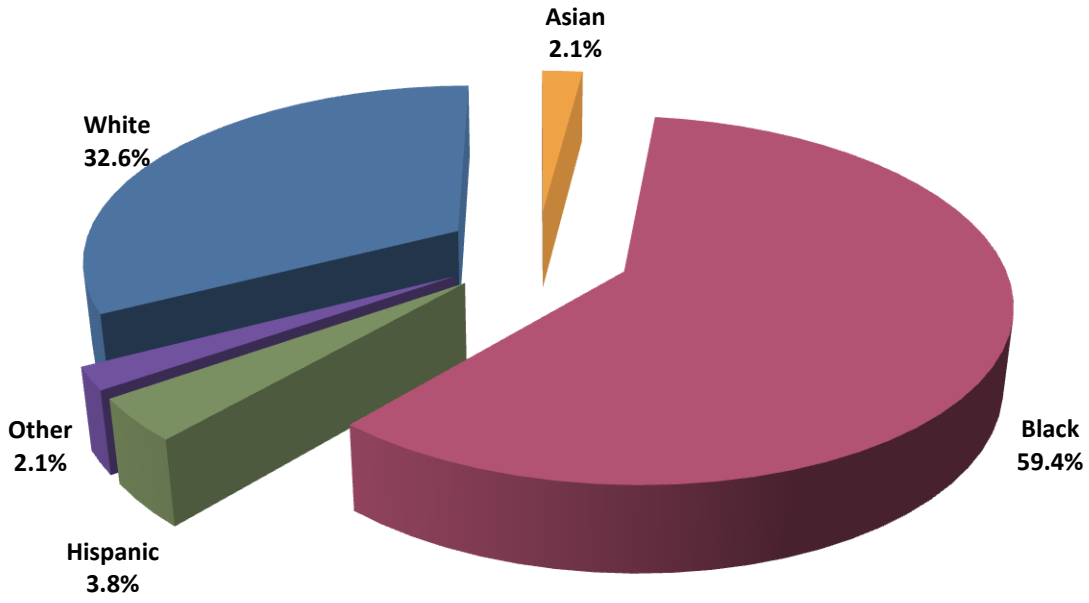
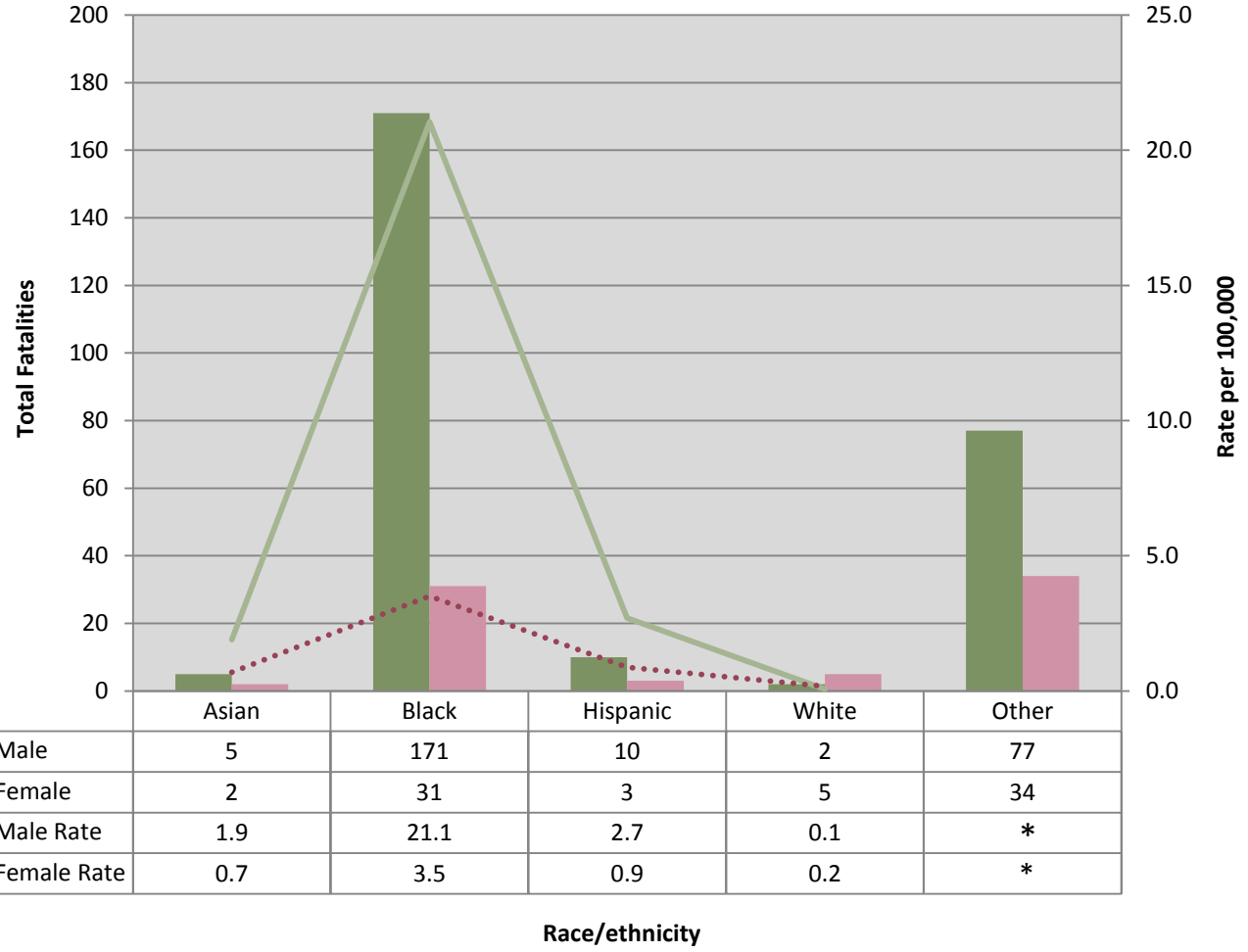


Figure 2.13 Total Number and Rate of OCME Homicide Deaths by Race/Ethnicity and Gender, 2013



	Asian	Black	Hispanic	White	Other
Male	5	171	10	2	77
Female	2	31	3	5	34
Male Rate	1.9	21.1	2.7	0.1	*
Female Rate	0.7	3.5	0.9	0.2	*

*No rate can be calculated

Table 2.4 Total Number of OCME Homicide Deaths by Cause and Method of Death, 2013

Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned by assailant(s)	1	**1**
Strangled by assailant(s)	9	**9**
Suffocated/Smothered by assailant(s)	2	**2**
Judicial Execution		
Electrocuted	1	**1**
Exposure		
Exposed to heat	2	**2**
Fire		
Thermal and/or inhalational injuries	2	**2**
Motor Vehicle Collision		
Struck by a vehicle	1	**1**
Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	1	**1**
Traumatic Injury		
Beaten by assailant(s)	30	**30**
Other traumatic violence	7	**7**
Shot by assailant(s)		
Handgun	185	**185**
Multiple	4	**4**
Rifle	10	**10**
Shotgun	9	**9**
Unspecified/Unknown	36	**36**
Stabbed by assailant(s)	37	**37**
Unknown		
Undetermined method	3	**3**
TOTAL HOMICIDE DEATHS	**340**	**340**

Figure 2.14 Number of the OCME's Top 5 OCME Homicide Deaths by Method, 2013

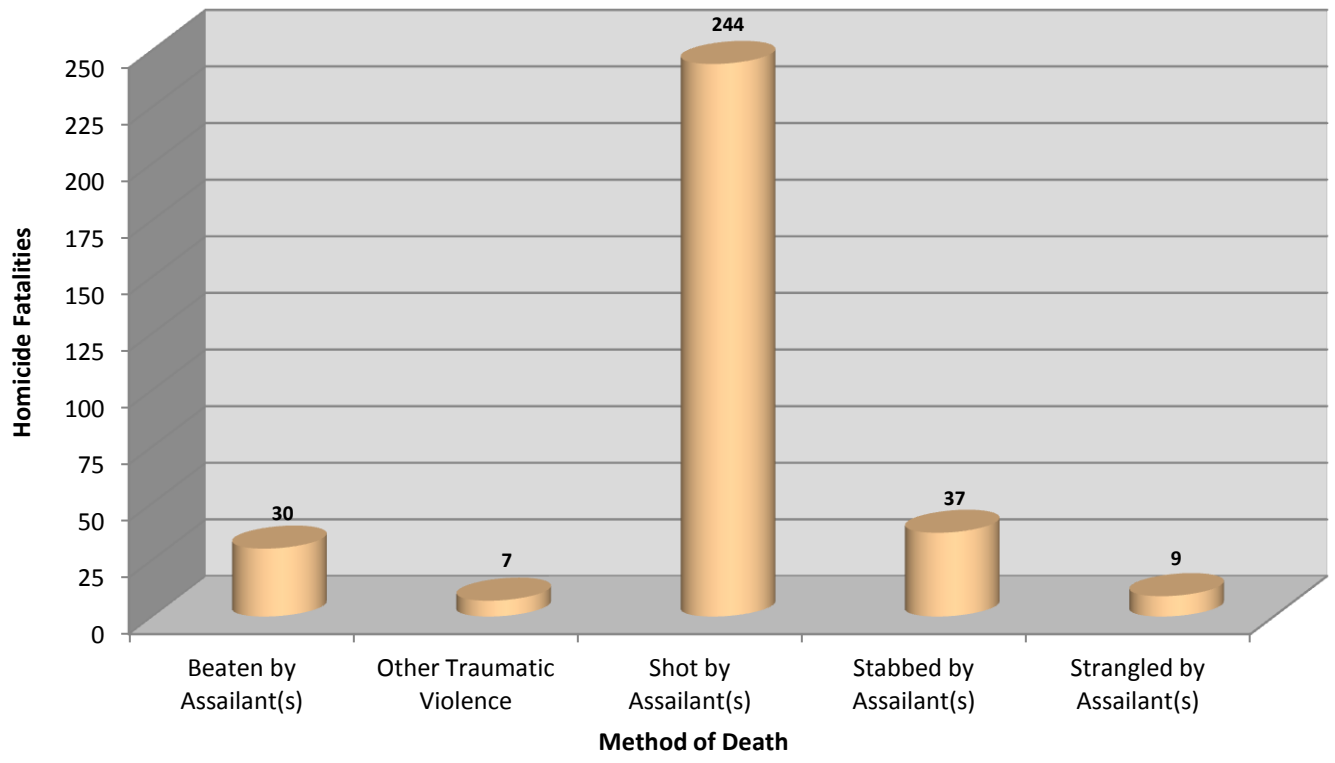


Figure 2.15 Total Number of OCME Homicide Deaths by Ethanol Level and Gender, 2013

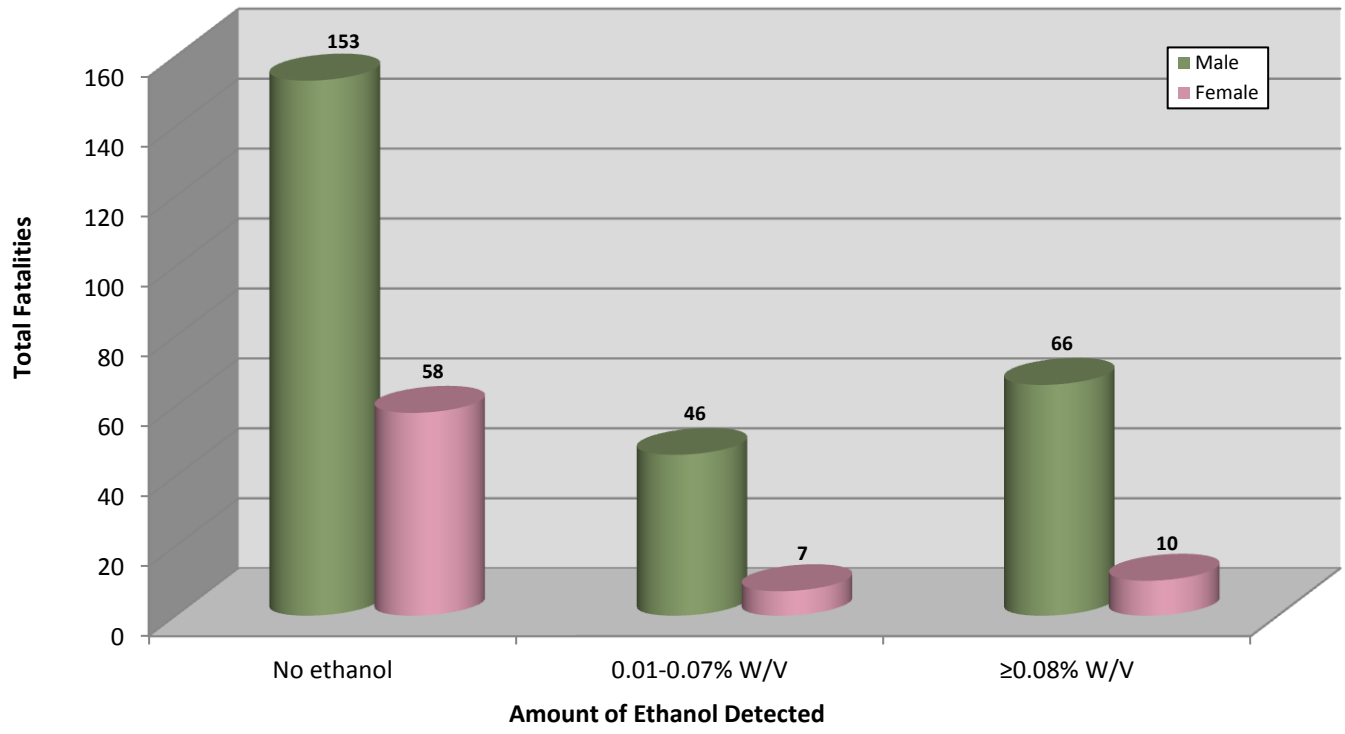


Figure 2.16 Total Number of OCME Homicide Deaths by Age Group and Ethanol Level, 2013

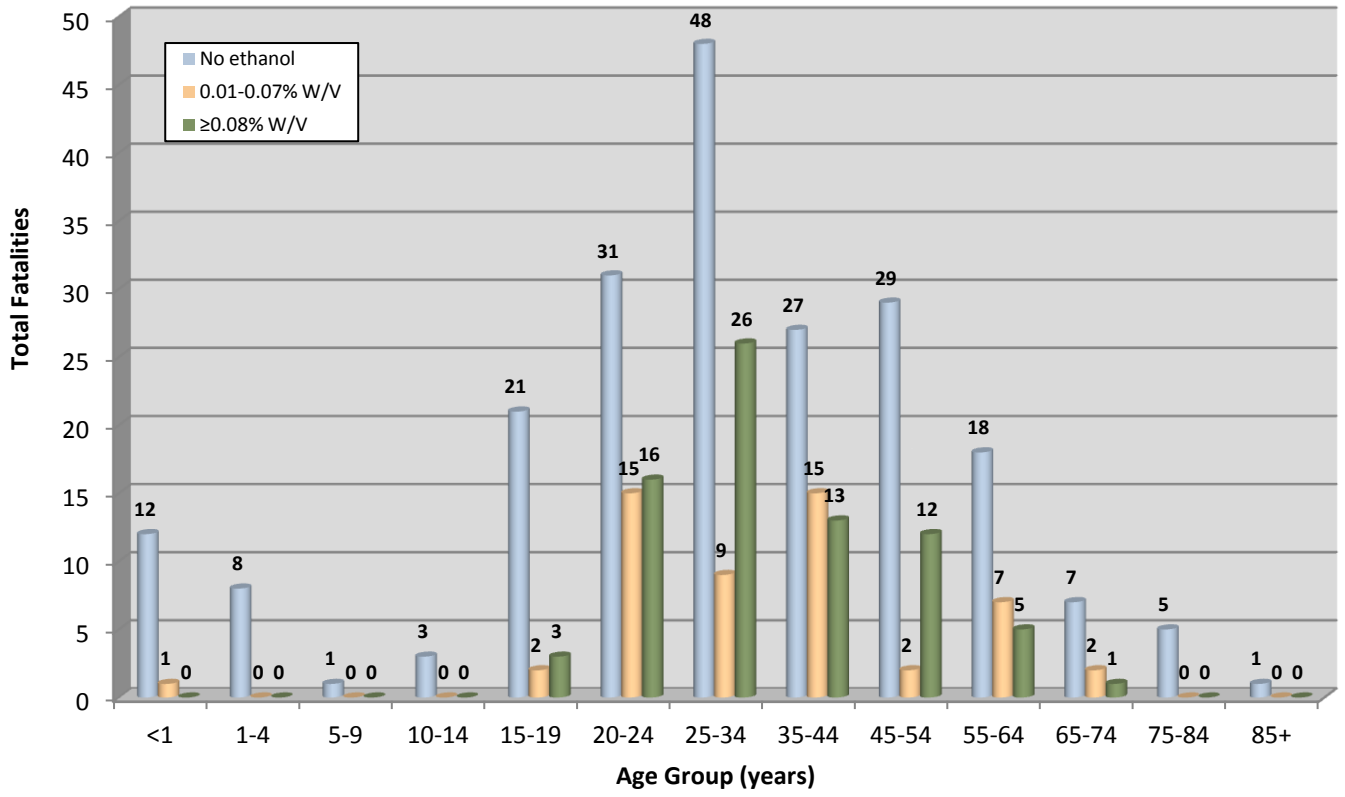


Table 2.5 Total Number of OCME Homicide Deaths by Method of Death and Ethanol Level, 2013

Method of Death	No ethanol	0.01-0.07% W/V	≥0.08% W/V	Total Cases
Asphyxia				
Drowned by assailant(s)	1	0	0	**1**
Strangled by assailant(s)	6	2	1	**9**
Suffocated/Smothered by assailant(s)	2	0	0	**2**
Judicial Execution				
Electrocuted	1	0	0	**1**
Exposure				
Exposed to heat	2	0	0	**2**
Fire				
Thermal and/or inhalational injuries	2	0	0	**2**
Motor Vehicle Collision				
Struck by a vehicle	1	0	0	**1**
Poisoning				
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	0	1	0	**1**
Traumatic Injury				
Beaten by assailant(s)	20	3	7	**30**
Other traumatic violence	7	0	0	**7**
Shot by assailant(s)				
Handgun	108	33	44	**185**
Multiple	2	0	2	**4**
Rifle	4	1	5	**10**
Shotgun	7	2	0	**9**
Unspecified/Unknown	24	7	5	**36**
Stabbed by assailant(s)	21	4	12	**37**
Unknown				
Undetermined method	3	0	0	**3**
TOTAL HOMICIDE DEATHS	**211**	**53**	**76**	**340**

Figure 2.17 Total Number of OCME Homicide Deaths by Month of Death, 2013

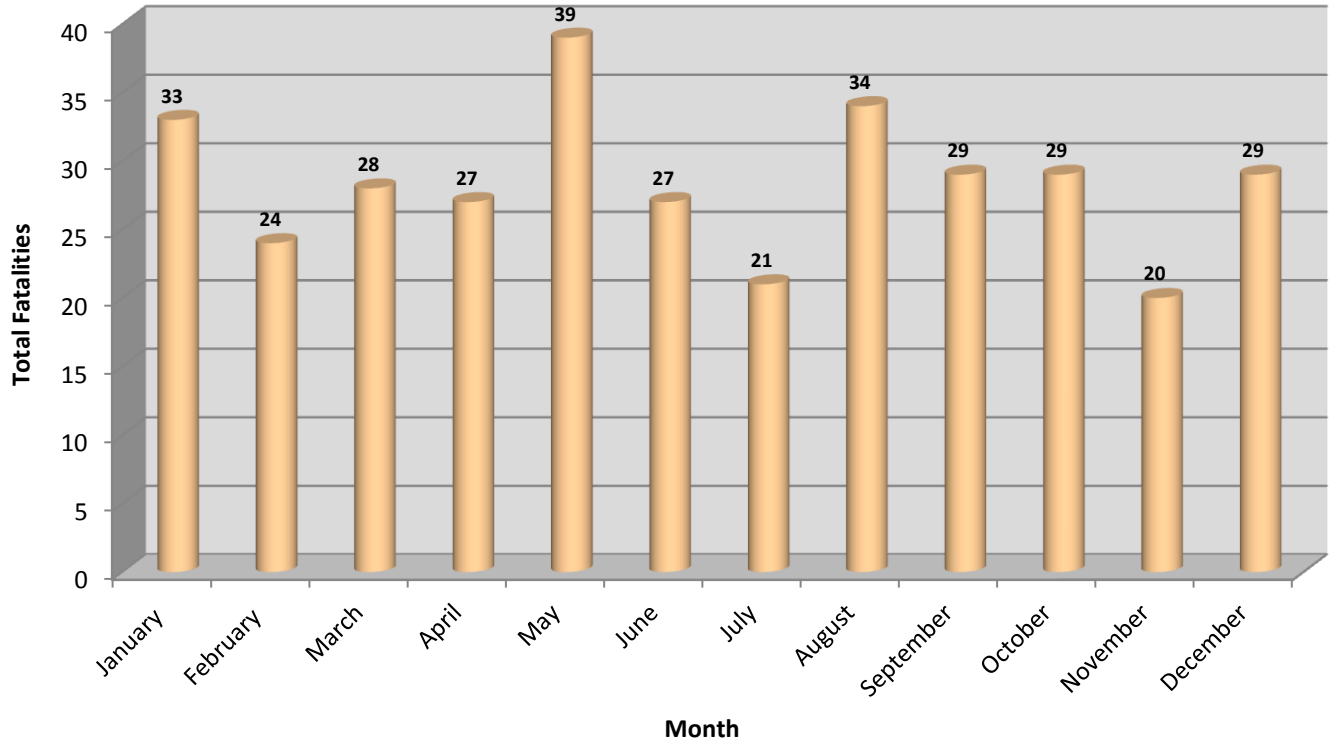


Figure 2.18 Total Number of OCME Homicide Deaths by Day of Death, 2013

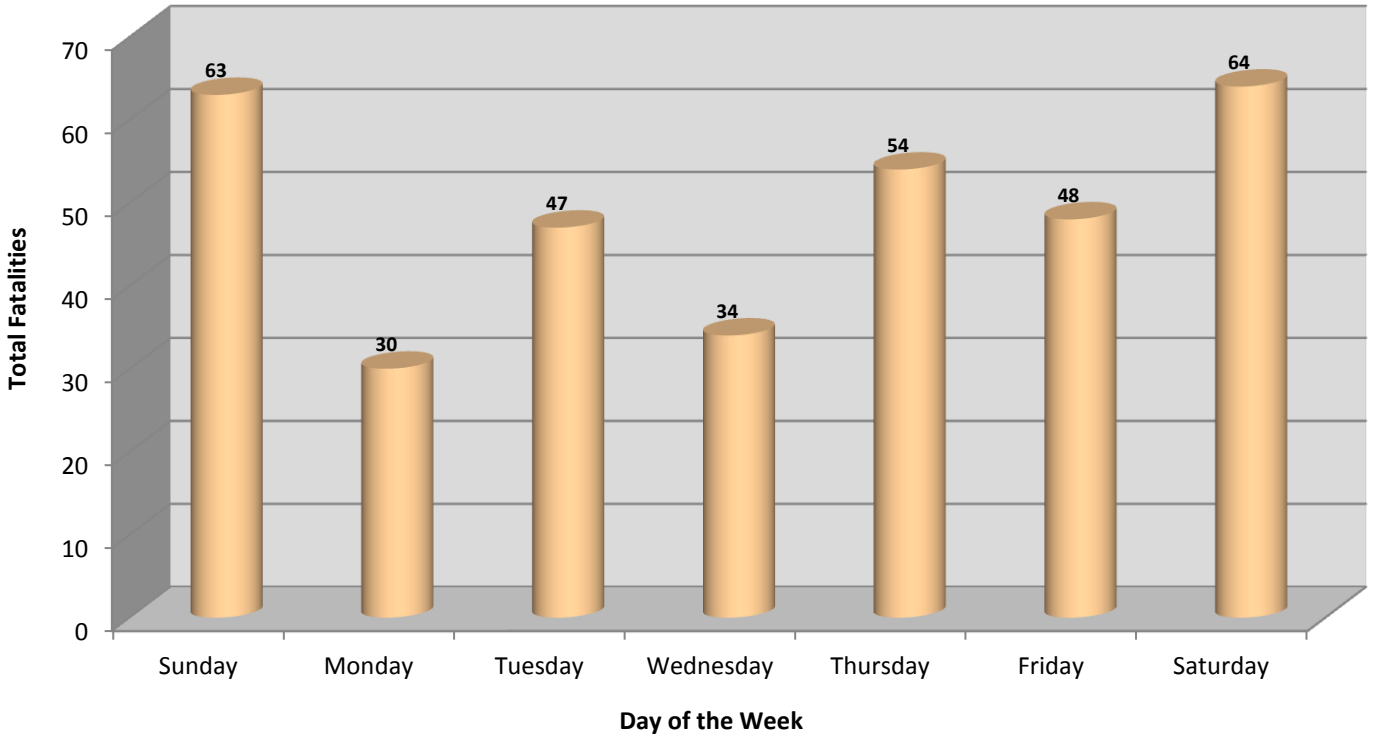


Table 2.6 Total Number and Rate of OCME Homicide Deaths by Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	4	12.1
Albemarle County	2	1.9
Alexandria City	5	3.4
Alleghany County	2	12.4
Amelia County	0	0.0
Amherst County	1	3.1
Appomattox County	1	6.6
Arlington County	0	0.0
Augusta County	0	0.0
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	0	0.0
Bland County	0	0.0
Botetourt County	2	6.1
Bristol City	0	0.0
Brunswick County	1	5.9
Buchanan County	0	0.0
Buckingham County	1	5.8
Buena Vista City	1	15.0
Campbell County	3	5.4
Caroline County	0	0.0
Carroll County	4	13.4
Charles City County	0	0.0
Charlotte County	1	8.1
Charlottesville City	2	4.5
Chesapeake City	11	4.8
Chesterfield County	15	4.6
Clarke County	0	0.0
Colonial Heights City	1	5.7
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	3	6.2
Cumberland County	2	20.3
Danville City	4	9.3
Dickenson County	1	6.5
Dinwiddie County	6	21.5

County/City of Residence	Total	Rate
Emporia City	2	35.8
Essex County	1	8.9
Fairfax City	1	4.2
Fairfax County	9	0.8
Falls Church City	0	0.0
Fauquier County	2	3.0
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	3	5.3
Frederick County	0	0.0
Fredericksburg City	2	7.1
Galax City	0	0.0
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	2	16.8
Halifax County	0	0.0
Hampton City	18	13.2
Hanover County	2	2.0
Harrisonburg City	1	1.9
Henrico County	9	2.8
Henry County	4	7.6
Highland County	0	0.0
Hopewell City	2	9.0
Isle of Wight County	1	2.8
James City County	3	4.3
King and Queen County	1	14.0
King George County	0	0.0
King William County	0	0.0
Lancaster County	0	0.0
Lee County	2	7.9
Lexington City	0	0.0
Loudoun County	5	1.4

County/City of Residence	Total	Rate
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	3	3.8
Madison County	1	7.6
Manassas City	1	2.4
Manassas Park City	1	6.2
Martinsville City	3	21.8
Mathews County	0	0.0
Mecklenburg County	2	6.4
Middlesex County	1	9.3
Montgomery County	1	1.0
Nelson County	1	6.8
New Kent County	0	0.0
Newport News City	16	8.8
Norfolk City	26	10.6
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	0	0.0
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	8	24.6
Pittsylvania County	1	1.6
Poquoson City	0	0.0
Portsmouth City	7	7.3
Powhatan County	1	3.5
Prince Edward County	1	4.4
Prince George County	3	8.1
Prince William County	6	1.4
Pulaski County	1	2.9
Radford City	0	0.0
Rappahannock County	0	0.0

County/City of Residence	Total	Rate
Richmond City	34	15.9
Richmond County	0	0.0
Roanoke City	13	13.2
Roanoke County	1	1.1
Rockbridge County	0	0.0
Rockingham County	0	0.0
Russell County	2	7.1
Salem City	1	4.0
Scott County	0	0.0
Shenandoah County	2	4.7
Smyth County	0	0.0
Southampton County	1	5.5
Spotsylvania County	2	1.6
Stafford County	5	3.7
Staunton City	1	4.1
Suffolk City	8	9.3
Surry County	0	0.0
Sussex County	1	8.5
Tazewell County	0	0.0
Virginia Beach City	21	4.7
Warren County	0	0.0
Washington County	2	3.6
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	0	0.0
Winchester City	2	7.3
Wise County	0	0.0
Wythe County	0	0.0
York County	2	3.0
Subtotal (in state)	**330**	**4.0**
Out of State	10	ND
Subtotal (out of state)	**10**	**ND**
TOTAL	**340**	**4.1**

Note: No denominator is represented by ND.

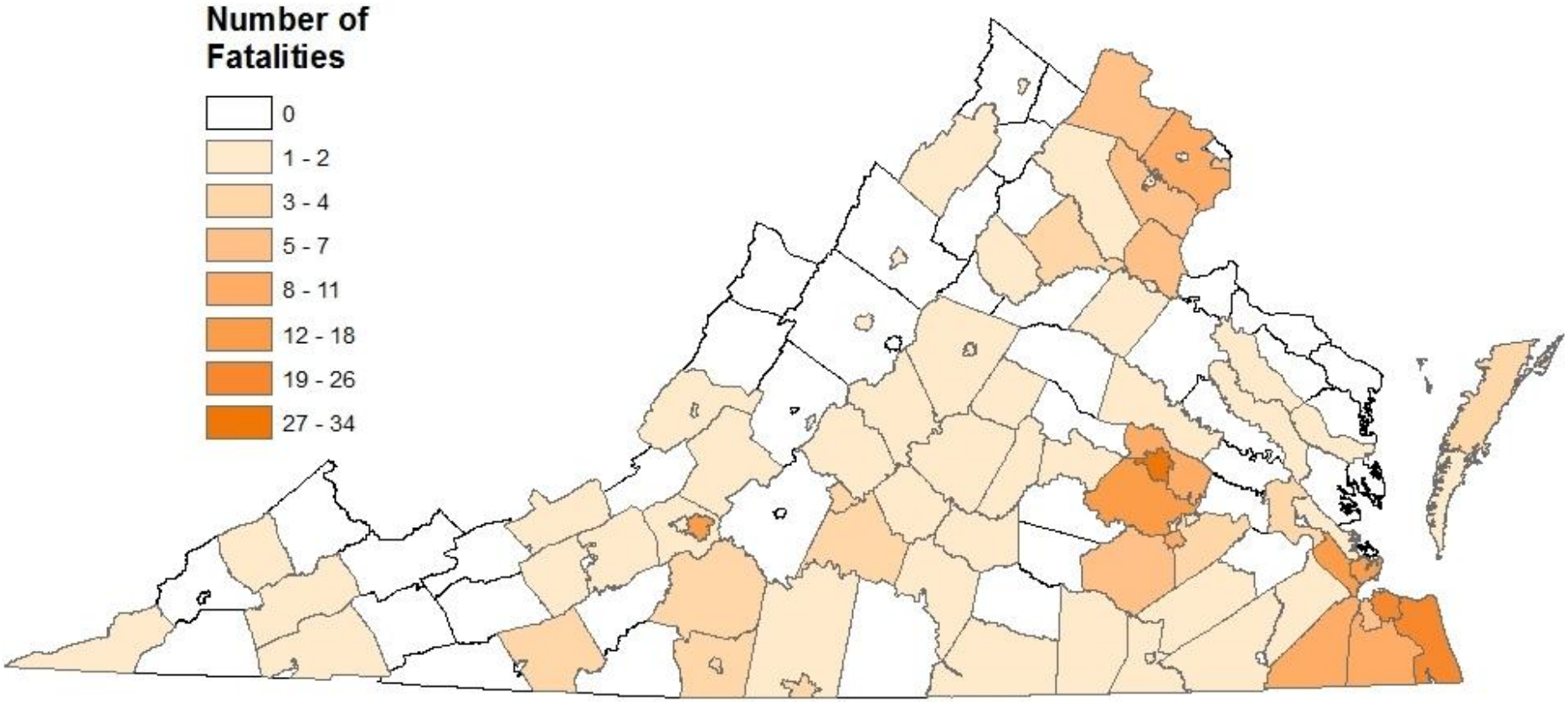
Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2013

County/City of Residence	Total Cases
Richmond City	34
Norfolk City	26
Virginia Beach City	21
Hampton City	18
Newport News City	16
Chesterfield County	15
Roanoke City	13
Chesapeake City	11
Fairfax County	9
Henrico County	9

Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2013

County/City of Residence	Rate per 100,000
Emporia City	35.8
Petersburg City	24.6
Martinsville City	21.8
Dinwiddie County	21.5
Cumberland County	20.3
Covington City	17.2
Greensville County	16.8
Northampton County	16.5
Richmond City	15.9
Buena Vista City	15.0

Map 2.1 Total Number of Homicides by Locality of Residence, 2013



Map 2.2 Homicide Rates by Locality of Residence, 2013

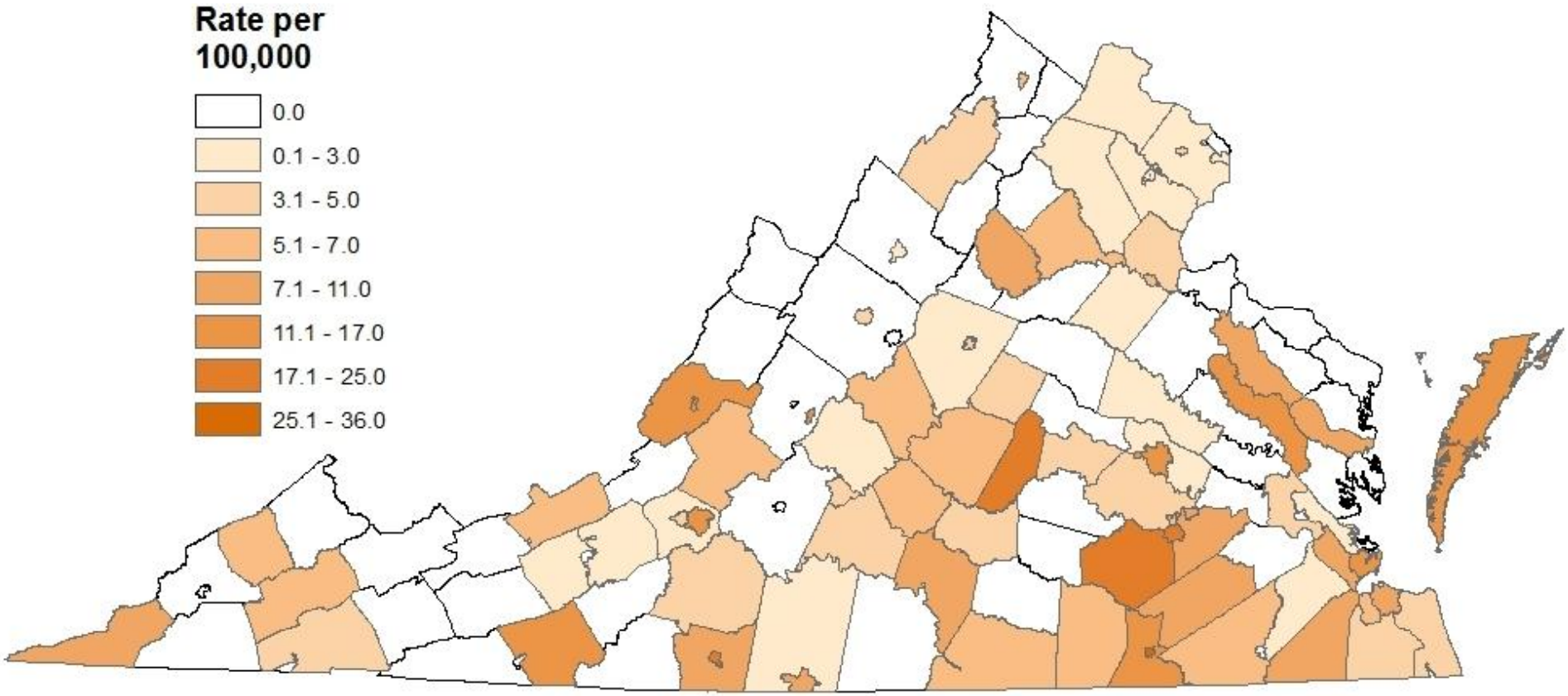


Table 2.9 Total Number and Rate of OCME Homicide Deaths by Locality of Injury, 2013

County/City of Injury	Total	Rate
Accomack County	5	15.1
Albemarle County	2	1.9
Alexandria City	6	4.0
Alleghany County	2	12.4
Amelia County	0	0.0
Amherst County	1	3.1
Appomattox County	0	0.0
Arlington County	0	0.0
Augusta County	0	0.0
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	0	0.0
Bland County	0	0.0
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	0	0.0
Buckingham County	1	5.8
Buena Vista City	1	15.0
Campbell County	3	5.4
Caroline County	0	0.0
Carroll County	4	13.4
Charles City County	0	0.0
Charlotte County	1	8.1
Charlottesville City	2	4.5
Chesapeake City	9	3.9
Chesterfield County	10	3.1
Clarke County	0	0.0
Colonial Heights City	1	5.7
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	2	4.1
Cumberland County	0	0.0
Danville City	6	14.0
Dickenson County	1	6.5
Dinwiddie County	5	17.9

County/City of Injury	Total	Rate
Emporia City	1	17.9
Essex County	1	8.9
Fairfax City	1	4.2
Fairfax County	9	0.8
Falls Church City	1	7.4
Fauquier County	2	3.0
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	3	5.3
Frederick County	1	1.2
Fredericksburg City	2	7.1
Galax City	0	0.0
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	3	25.2
Halifax County	0	0.0
Hampton City	23	16.8
Hanover County	1	1.0
Harrisonburg City	1	1.9
Henrico County	11	3.5
Henry County	3	5.7
Highland County	0	0.0
Hopewell City	3	13.5
Isle of Wight County	2	5.6
James City County	2	2.8
King and Queen County	1	14.0
King George County	0	0.0
King William County	0	0.0
Lancaster County	0	0.0
Lee County	2	7.9
Lexington City	0	0.0
Loudoun County	5	1.4

County/City of Injury	Total	Rate
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	2	2.6
Madison County	1	7.6
Manassas City	0	0.0
Manassas Park City	1	6.2
Martinsville City	2	14.5
Mathews County	0	0.0
Mecklenburg County	2	6.4
Middlesex County	1	9.3
Montgomery County	2	2.1
Nelson County	1	6.8
New Kent County	0	0.0
Newport News City	16	8.8
Norfolk City	31	12.6
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	0	0.0
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	9	27.7
Pittsylvania County	1	1.6
Poquoson City	0	0.0
Portsmouth City	8	8.3
Powhatan County	0	0.0
Prince Edward County	3	13.2
Prince George County	1	2.7
Prince William County	4	0.9
Pulaski County	1	2.9
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	40	18.7
Richmond County	0	0.0
Roanoke City	11	11.2
Roanoke County	0	0.0

County/City of Injury	Total	Rate
Rockbridge County	0	0.0
Rockingham County	0	0.0
Russell County	2	7.1
Salem City	2	7.9
Scott County	0	0.0
Shenandoah County	2	4.7
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	4	3.1
Stafford County	5	3.7
Staunton City	1	4.1
Suffolk City	7	8.2
Surry County	0	0.0
Sussex County	2	16.9
Tazewell County	0	0.0
Virginia Beach City	19	4.2
Warren County	0	0.0
Washington County	2	3.6
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	0	0.0
Wythe County	0	0.0
York County	2	3.0
Subtotal (in state)	**332**	**4.0**
Out of State	5	ND
Unknown	3	ND
Subtotal (out of state)	**8**	**ND**
TOTAL	**340**	**4.1**

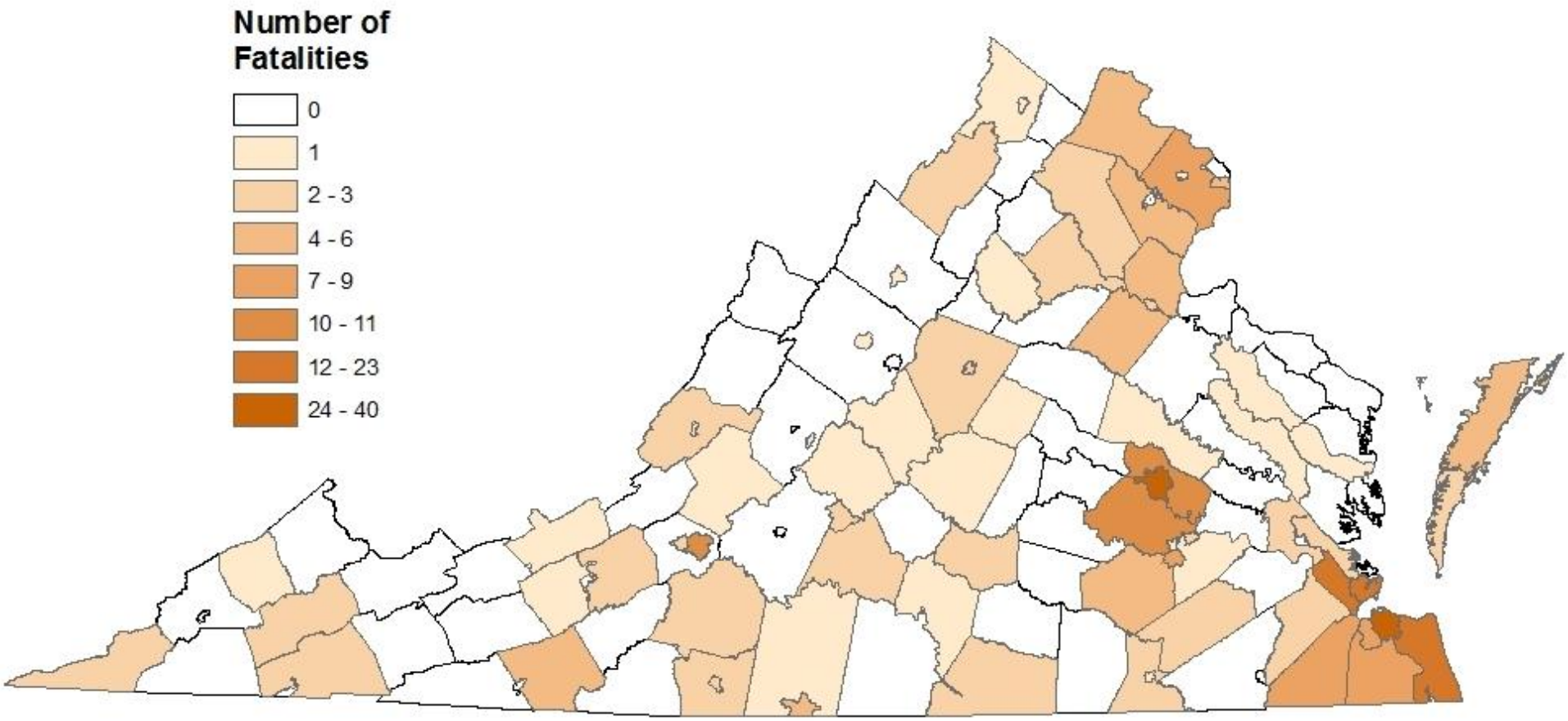
Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2013

County/City of Injury	Total
Richmond City	40
Norfolk City	31
Hampton City	23
Virginia Beach City	19
Newport News City	16
Henrico County	11
Roanoke City	11
Chesterfield County	10
Chesapeake City	9
Fairfax County	9
Petersburg City	9

Table 2.11 Top 10 Locations City/Counties with the Highest Rate of Homicides by Locality of Injury, 2013

County/City of Injury	Rate per 100,000
Petersburg City	27.7
Greensville County	25.2
Richmond City	18.7
Dinwiddie County	17.9
Emporia City	17.9
Covington City	17.2
Sussex County	16.9
Hampton City	16.8
Northampton County	16.5
Accomack County	15.1

Map 2.3 Total Number Homicides by Locality of Injury, 2013



Map 2.4 Homicide Rates by Locality of Injury, 2013

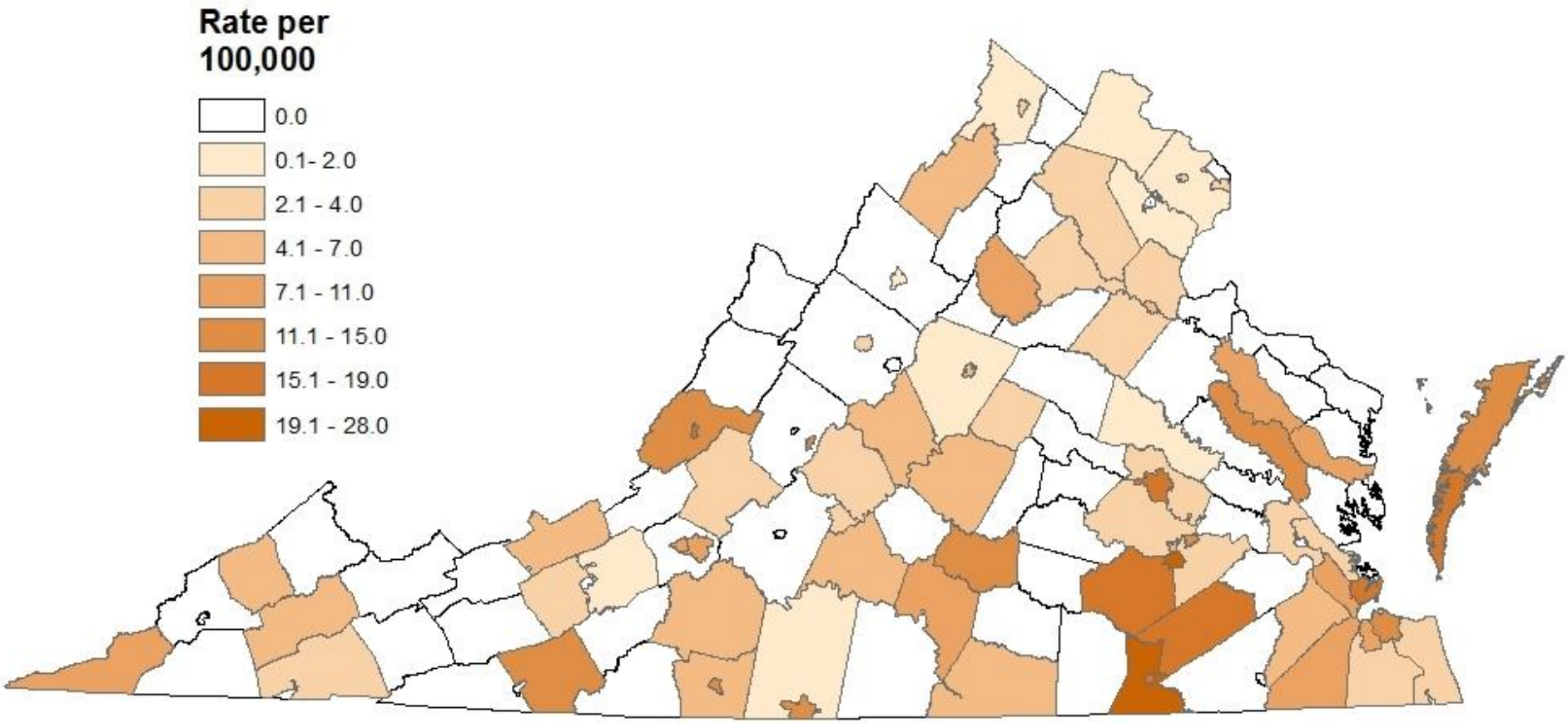


Table 2.12 Total Number of OCME Homicide Deaths by Locality of Injury and Year of Death, 2006-2013

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Accomack County	5	6	2	2	3	6	2	5	**31**
Albemarle County	1	1	2	1	2	2	4	2	**15**
Alexandria City	4	7	4	5	2	1	0	6	**29**
Alleghany County	0	3	1	0	1	1	1	2	**9**
Amelia County	0	0	0	0	1	0	0	0	**1**
Amherst County	0	1	1	0	0	1	0	1	**4**
Appomattox County	0	2	1	0	8	1	0	0	**12**
Arlington County	3	2	4	2	0	0	5	0	**16**
Augusta County	3	1	0	2	2	2	2	0	**12**
Bath County	0	0	0	2	0	0	0	0	**2**
Bedford City	0	0	1	0	0	0	0	0	**1**
Bedford County	1	2	0	0	2	1	1	0	**7**
Bland County	0	0	0	1	0	0	0	0	**1**
Botetourt County	0	1	0	1	1	0	0	1	**4**
Bristol City	4	0	0	0	1	1	1	0	**7**
Brunswick County	3	1	2	1	0	1	1	0	**9**
Buchanan County	1	0	2	6	3	6	2	0	**20**
Buckingham County	1	2	0	0	0	1	0	1	**5**
Buena Vista City	0	0	0	0	0	0	0	1	**1**
Campbell County	2	2	2	5	2	1	3	3	**20**
Caroline County	5	4	0	0	0	1	0	0	**10**
Carroll County	1	4	1	1	1	0	0	4	**12**
Charles City County	0	0	1	0	0	0	0	0	**1**
Charlotte County	0	0	2	1	0	1	1	1	**6**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Charlottesville City	5	3	5	0	3	1	2	2	**21**
Chesapeake City	7	15	12	17	14	12	12	9	**98**
Chesterfield County	5	9	12	4	10	10	11	10	**71**
Clarke County	0	0	1	1	0	0	0	0	**2**
Colonial Heights City	0	0	0	0	0	2	0	1	**3**
Covington City	0	0	0	0	1	1	1	1	**4**
Craig County	0	0	1	0	0	0	0	0	**1**
Culpeper County	1	1	0	0	0	3	1	2	**8**
Cumberland County	0	2	0	2	0	0	1	0	**5**
Danville City	5	6	10	8	9	6	3	6	**53**
Dickenson County	0	1	1	1	1	2	0	1	**7**
Dinwiddie County	5	1	1	1	2	1	3	5	**19**
Emporia City	1	2	1	0	1	1	1	1	**8**
Essex County	0	0	0	0	0	1	0	1	**2**
Fairfax City	1	1	1	0	0	0	0	1	**4**
Fairfax County	29	16	25	19	16	12	18	9	**144**
Falls Church City	0	0	0	0	0	0	1	1	**2**
Fauquier County	2	4	1	3	1	1	3	2	**17**
Floyd County	0	0	2	2	0	1	0	0	**5**
Fluvanna County	0	0	1	0	0	0	0	1	**2**
Franklin City	0	0	0	2	1	0	1	0	**4**
Franklin County	2	1	1	4	3	2	0	3	**16**
Frederick County	7	0	2	2	1	1	3	1	**17**
Fredericksburg City	0	2	2	1	0	1	2	2	**10**
Galax City	1	1	0	1	0	0	0	0	**3**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Giles County	1	0	0	0	0	1	0	1	**3**
Gloucester County	0	1	1	0	1	2	3	0	**8**
Goochland County	1	0	2	0	1	0	0	0	**4**
Grayson County	0	1	7	0	0	0	0	0	**8**
Greene County	0	1	0	0	0	3	0	0	**4**
Greensville County	5	0	6	4	4	2	0	3	**24**
Halifax County	1	3	4	0	2	2	0	0	**12**
Hampton City	14	7	9	11	17	8	15	23	**104**
Hanover County	2	0	1	0	1	2	5	1	**12**
Harrisonburg City	4	0	1	0	1	2	1	1	**10**
Henrico County	10	15	16	12	12	13	14	11	**103**
Henry County	7	3	6	5	7	6	5	3	**42**
Highland County	0	0	0	0	0	0	0	0	**0**
Hopewell City	4	3	3	4	2	3	2	3	**24**
Isle of Wight County	1	0	2	1	0	0	4	2	**10**
James City County	1	1	1	1	0	2	0	2	**8**
King and Queen County	0	0	0	0	0	0	1	1	**2**
King George County	0	0	0	2	0	0	0	0	**2**
King William County	0	2	0	0	0	1	0	0	**3**
Lancaster County	2	0	1	0	3	1	1	0	**8**
Lee County	0	1	2	1	4	4	1	2	**15**
Lexington City	0	0	0	0	0	0	0	0	**0**
Loudoun County	4	2	4	4	1	2	2	5	**24**
Louisa County	0	4	1	1	3	0	1	0	**10**
Lunenburg County	1	1	2	1	0	0	0	0	**5**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Lynchburg City	2	1	4	0	3	4	3	2	**19**
Madison County	0	0	1	0	1	3	1	1	**7**
Manassas City	1	1	4	1	1	4	1	0	**13**
Manassas Park City	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	0	1	**1**
Martinsville City	0	2	2	0	3	2	1	2	**12**
Mathews County	0	0	0	1	0	0	0	0	**1**
Mecklenburg County	0	1	4	1	2	1	0	2	**11**
Middlesex County	1	0	0	0	0	1	0	1	**3**
Montgomery County	3	33	3	7	2	1	0	2	**51**
Nelson County	0	1	0	1	1	1	0	1	**5**
New Kent County	0	0	1	1	0	0	0	0	**2**
Newport News City	20	30	16	24	23	18	20	16	**167**
Norfolk City	34	53	29	50	34	29	36	31	**296**
Northampton County	2	1	0	0	2	0	0	2	**7**
Northumberland County	0	1	0	0	0	0	1	0	**2**
Norton City	0	0	0	0	0	0	1	0	**1**
Nottoway County	0	1	0	1	1	0	2	0	**5**
Orange County	2	1	1	1	1	0	1	0	**7**
Page County	1	0	0	0	1	0	2	0	**4**
Patrick County	0	1	0	0	0	0	0	0	**1**
Petersburg City	10	7	5	11	13	7	5	9	**67**
Pittsylvania County	2	4	3	4	4	5	1	1	**24**
Poquoson City	0	0	0	0	0	0	0	0	**0**
Portsmouth City	18	17	16	18	14	12	11	8	**114**
Powhatan County	0	0	4	1	1	3	0	0	**9**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Prince Edward County	0	1	1	7	0	1	1	3	**14**
Prince George County	0	0	1	3	2	1	0	1	**8**
Prince William County	12	14	11	11	10	6	3	4	**71**
Pulaski County	1	0	2	1	2	0	1	1	**8**
Radford City	1	0	1	0	1	1	1	0	**5**
Rappahannock County	1	0	0	0	1	0	0	0	**2**
Richmond City	85	61	39	44	44	42	47	40	**402**
Richmond County	0	0	1	0	0	0	0	0	**1**
Roanoke City	13	8	13	12	8	9	9	11	**83**
Roanoke County	1	2	1	2	6	1	3	0	**16**
Rockbridge County	0	1	1	0	1	1	0	0	**4**
Rockingham County	1	0	1	1	0	1	0	0	**4**
Russell County	2	0	1	1	0	3	0	2	**9**
Salem City	0	0	2	1	1	0	0	2	**6**
Scott County	0	2	1	0	1	1	2	0	**7**
Shenandoah County	0	0	0	1	0	0	1	2	**4**
Smyth County	0	0	3	1	0	3	2	0	**9**
Southampton County	1	3	0	2	1	0	0	0	**7**
Spotsylvania County	4	4	0	4	6	3	1	4	**26**
Stafford County	1	3	6	6	2	2	1	5	**26**
Staunton City	0	0	2	3	2	1	0	1	**9**
Suffolk City	8	3	5	8	4	3	2	7	**40**
Surry County	0	0	1	0	2	0	1	0	**4**
Sussex County	1	0	0	0	0	0	1	2	**4**
Tazewell County	0	3	2	6	4	0	1	0	**16**

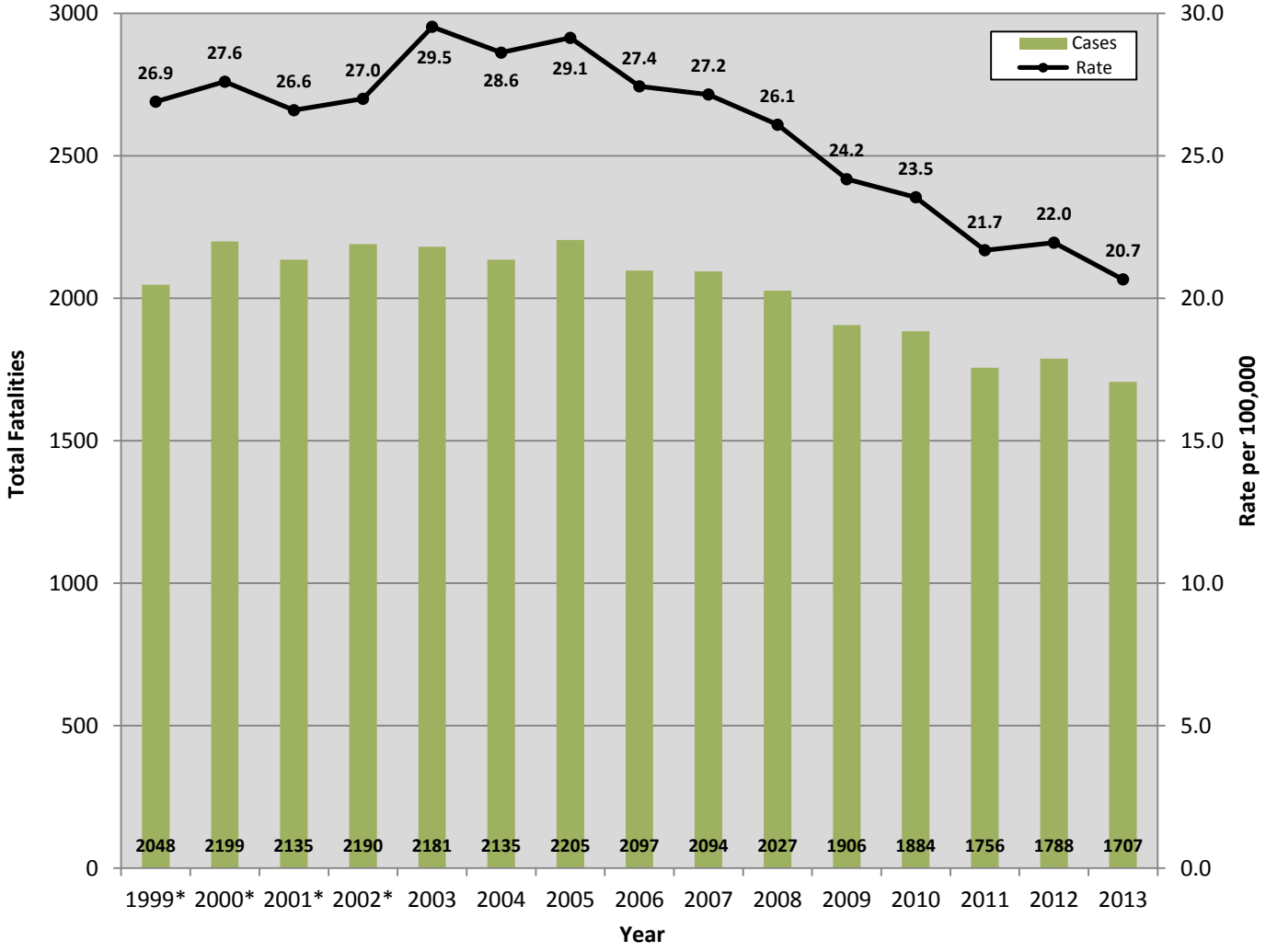
County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Virginia Beach City	20	18	18	17	15	17	22	19	**146**
Warren County	2	0	0	1	0	0	0	0	**3**
Washington County	0	1	2	1	2	3	3	2	**14**
Waynesboro City	0	1	1	0	2	0	0	0	**4**
Westmoreland County	2	1	1	0	0	0	1	0	**5**
Williamsburg City	1	0	0	0	0	1	0	0	**2**
Winchester City	2	2	0	0	0	0	0	1	**5**
Wise County	0	2	0	1	1	1	4	0	**9**
Wythe County	1	0	2	0	0	1	0	0	**4**
York County	3	1	1	2	0	2	0	2	**11**
Subtotal (in state)	**422**	**435**	**387**	**403**	**376**	**334**	**334**	**332**	**3023**
Out of State	1	6	4	1	6	5	5	5	**33**
Unknown	4	2	8	6	9	6	5	3	**43**
Subtotal (out of state)	**5**	**8**	**12**	**7**	**15**	**11**	**10**	**8**	**76**
TOTAL	**427**	**443**	**399**	**410**	**391**	**345**	**344**	**340**	**3099**

NATURAL DEATHS (N=1,707)

Natural deaths enter the medical examiner system as deaths that are sudden, unexpected or suspicious, which upon examination and investigation are then 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 29.4% of all deaths investigated by the OCME in 2013
- The number of natural deaths accepted by OCME decreased in 2013 compared with 2012 (a decrease of 81 deaths or 4.5%).

Figure 2.19 Total Number and Rate of OCME Natural Deaths by Year of Death, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports .

Figure 2.20 Total Number of OCME Natural Deaths by Age Group and Gender, 2013

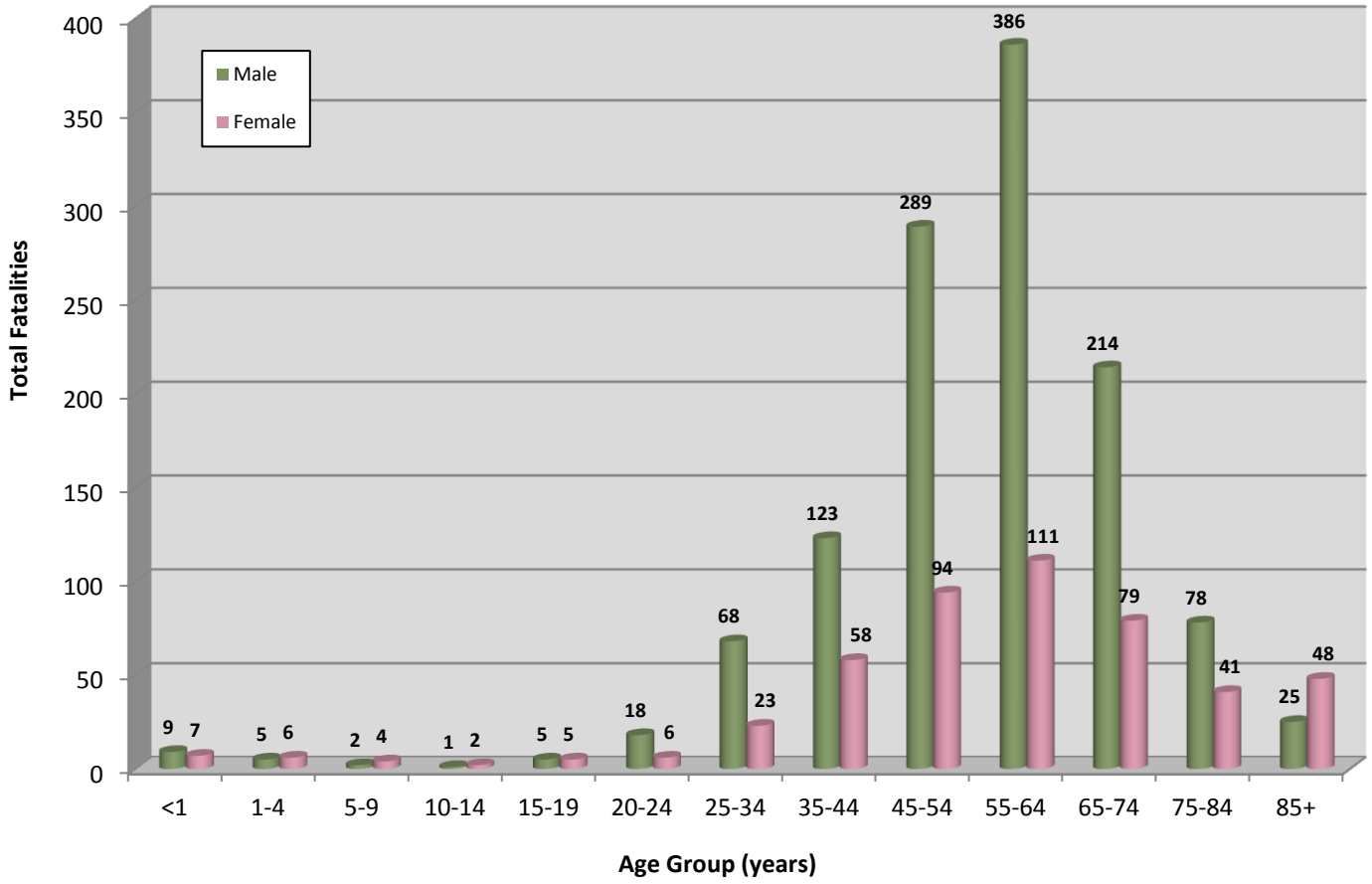


Table 2.13 Total Number of OCME Natural Deaths by Cause and Method of Death, 2013

Method and Cause of Death	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	4	**89**
Arrhythmogenic right ventricular dysplasia	5	**5**
Atherosclerosis	109	**447**
Atherosclerosis and hypertension	151	**227**
Cardiac dysrhythmia of undetermined etiology	16	**19**
Cardiomyopathy	24	**28**
Congenital defect	3	**3**
Hypertension	77	**211**
Other cardiac disease/disorder	33	**42**
Valvular	8	**11**
Vascular dissection/rupture	5	**6**
Central Nervous System (CNS) Diseases/Disorders		
Central nervous system malignancy	4	**5**
Degenerative disease	5	**12**
Meningitis (bacterial or viral)	2	**2**
Other CNS disease/disorder	7	**12**
Seizure disorder	12	**16**
Vascular disease	16	**29**
Gastrointestinal (GI) Diseases/Disorders		
Cirrhosis	14	**24**
GI hemorrhage	13	**30**
GI malignancy	15	**25**
Hepatitis	6	**15**
Other GI disease/disorder	11	**14**
Genitourinal (GU) Diseases/Disorders		
Genitourinal malignancy	4	**5**
Other GU disease/disorder	0	**1**
Renal disease	3	**6**
Other Natural Diseases/Disorders		
Other malignancy	2	**8**
Other natural disease/disorder	7	**9**
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	3	**3**

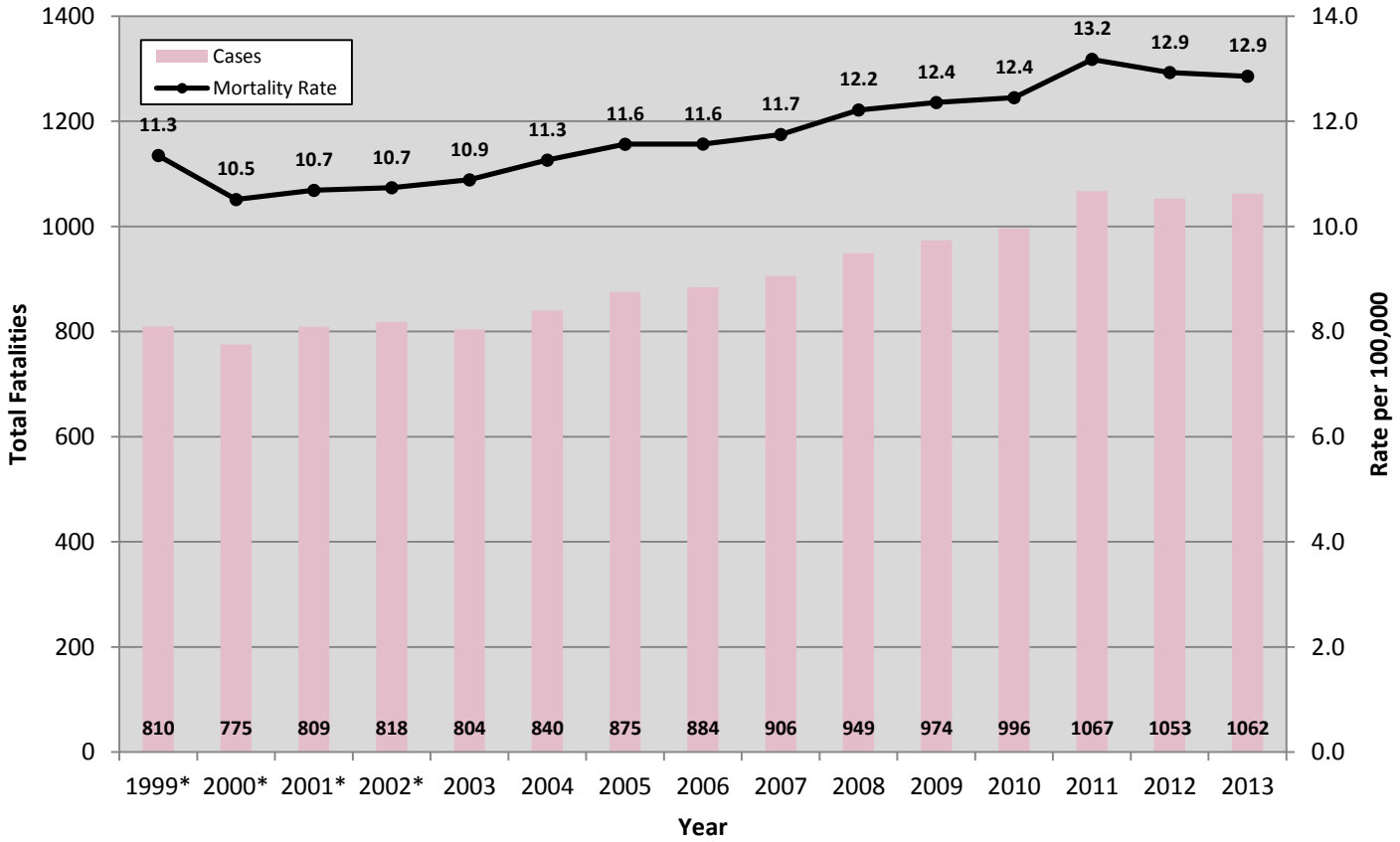
Method and Cause of Death	Autopsied	Total Cases
Other perinatal or pediatric disorder	2	**2**
Sudden Infant Death Syndrome (SIDS)	1	**1**
Pulmonary Disease/Disorders		
Asthma	6	**9**
COPD	11	**33**
Emboli	38	**45**
Pneumonia	41	**57**
Pulmonary malignancy	6	**14**
Other pulmonary disease/disorder	4	**8**
Systemic Diseases/Disorders		
AIDS/HIV	1	**2**
Blood disorders	2	**5**
Chronic alcoholism	35	**114**
Chronic drug abuse	1	**2**
Diabetes	17	**56**
Metastatic malignancy of unknown primary	1	**1**
Obesity	2	**11**
Other infectious disease	7	**7**
Other systemic disease/disorder	13	**23**
Sepsis	9	**13**
TOTAL NATURAL OCME DEATHS	**756**	**1707**

SUICIDE DEATHS (N=1,062)

Suicide deaths in general have been slowly increasing since 1999. In 2013, there were 9 more suicides (0.9% increase) than in 2012. Victims were most frequently male (77.9%), white (85.7%), and aged 45-54 years old (19.4%).

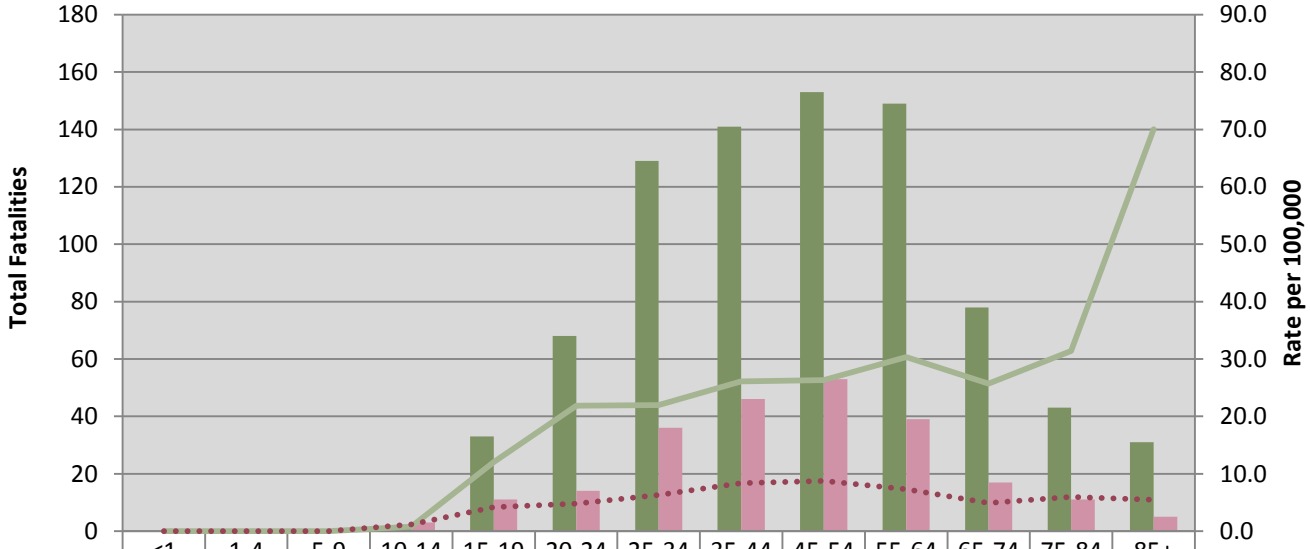
- Whites committed suicide at a rate 3.9 times that of Hispanics, 3.8 times that of Asians, 3.8 times that of Native Americans, and 2.9 times that of Blacks
- Males were 3.5 times more likely to commit suicide than females
- Firearms (specifically handguns), hangings, and drug use were the 3 most commonly used methods in suicides, with these deaths representing 55.6%, 19.0%, and 13.1% of all suicides, respectively
- Ethanol was present in 26.2% of all suicides, with 19.3% of suicides having a blood alcohol of 0.08% W/V or greater

Figure 2.21 Total Number and Rate of OCME Suicide Deaths by Year of Death, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); Stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports.

Figure 2.22 Total Number and Rate of OCME Suicide Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	0	0	0	2	33	68	129	141	153	149	78	43	31
Female	0	0	0	3	11	14	36	46	53	39	17	11	5
Male Rate	0.0	0.0	0.0	0.8	12.1	21.9	22.0	26.1	26.3	30.4	25.7	31.4	70.0
Female Rate	0.0	0.0	0.0	1.2	4.2	4.8	6.3	8.4	8.7	7.3	4.9	6.0	5.5

Age group (years)

Figure 2.23 Percentage of OCME Suicide Deaths by Race/Ethnicity, 2013

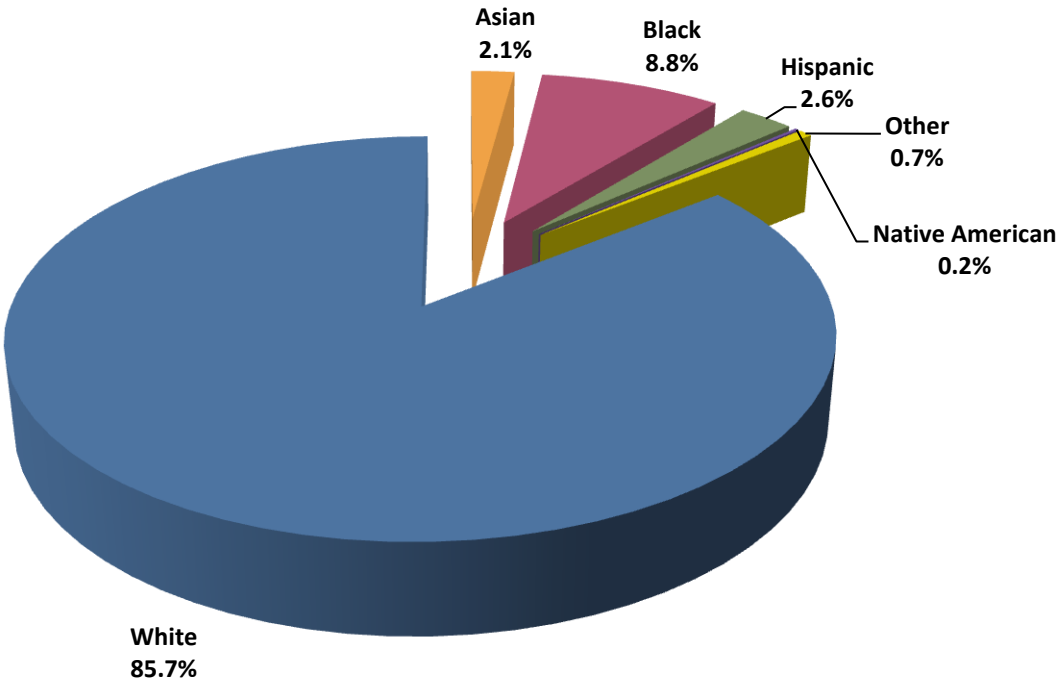
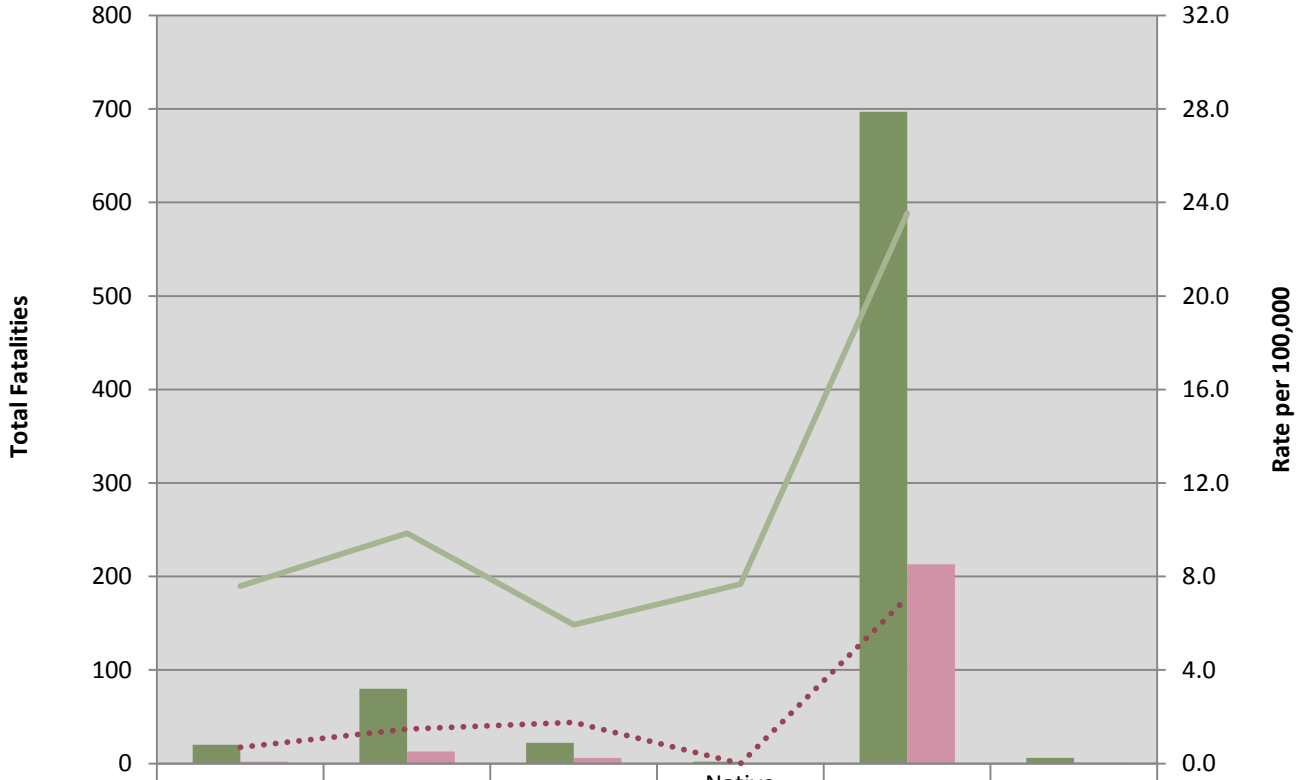


Figure 2.24 Number and Rate of OCME Suicide Deaths by Race/Ethnicity and Gender, 2013



	Asian	Black	Hispanic	Native American	White	Other
Male	20	80	22	2	697	6
Female	2	13	6	0	213	1
Male Rate	7.6	9.8	5.9	7.7	23.5	*
Female Rate	0.7	1.5	1.8	0.0	7.1	*

Race/Ethnicity

*No rate can be calculated

Table 2.14 Total Number of OCME Suicide Deaths by Cause and Method of Death, 2013

Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	17	**18**
Hanged	71	**202**
Helium asphyxia	1	**10**
Plastic bag asphyxia	4	**9**
Oxygen replacement/displacement	2	**4**
Other asphyxia	1	**1**
Drug Poisoning		
Ingested and/or injected illicit, prescription, and/or other type of drug	125	**139**
Jump/Fall		
Jump/Fall from height	7	**24**
Poisoned		
Carbon monoxide poisoning	5	**15**
Ingested ethylene glycol	2	**2**
Ingested other poison (ex. heavy metals, etc.)	1	**1**
Other		
Other	1	**4**
Traumatic Injury		
Cut/Stabbed self	8	**12**
Thermal burns and/or inhalation of combustible material	7	**8**
Shot self with firearm		
Handgun	454	454
Rifle	60	60
Shotgun	70	70
Unspecified/Unknown	6	6
Vehicular Collision		
Aircraft	1	**1**
Car	6	**8**
Dump Truck	0	**1**
Sport utility vehicle	1	**1**
Tractor Trailer	2	**2**
Train	2	**7**
Van	1	**2**
Unknown	1	**1**
TOTAL SUICIDE DEATHS	**856**	**1062**

Figure 2.25 Total Number of OCME Suicide Deaths by Age Group and Ethanol Level, 2013

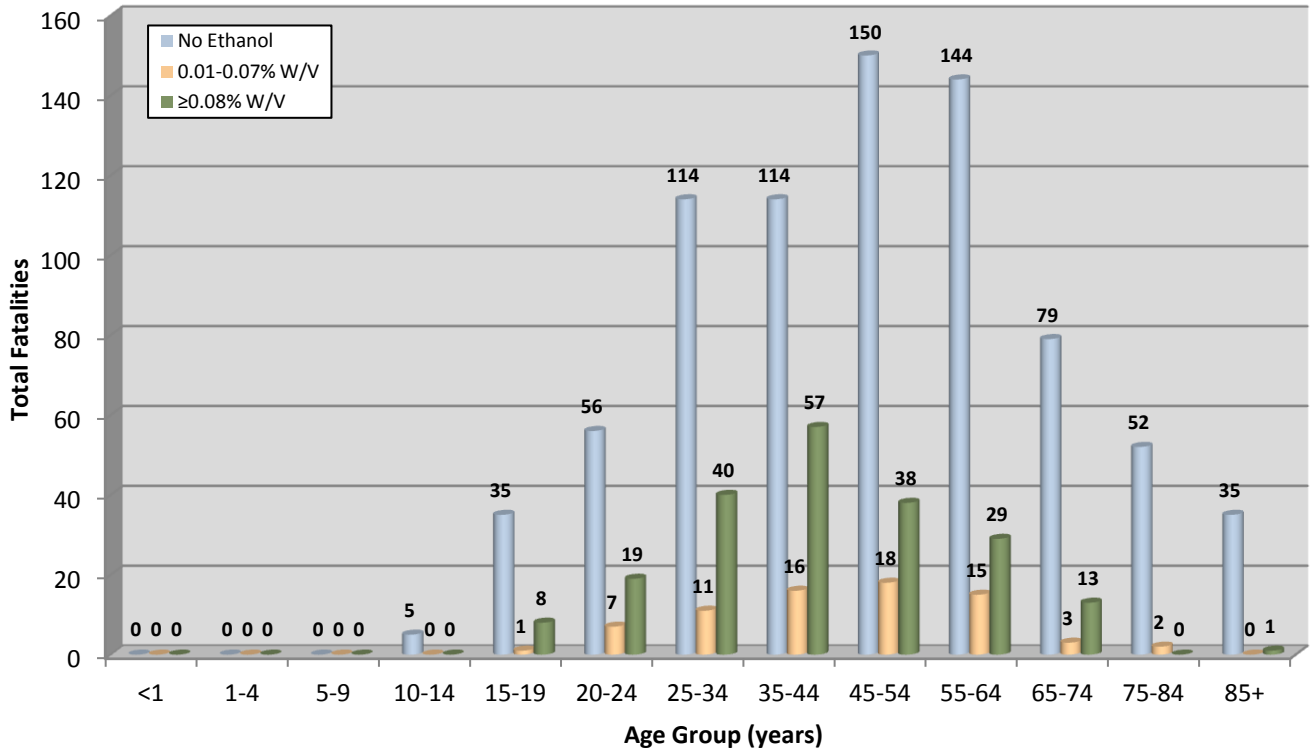


Figure 2.26 Total Number of OCME Suicide Deaths by Gender and Ethanol Level, 2013

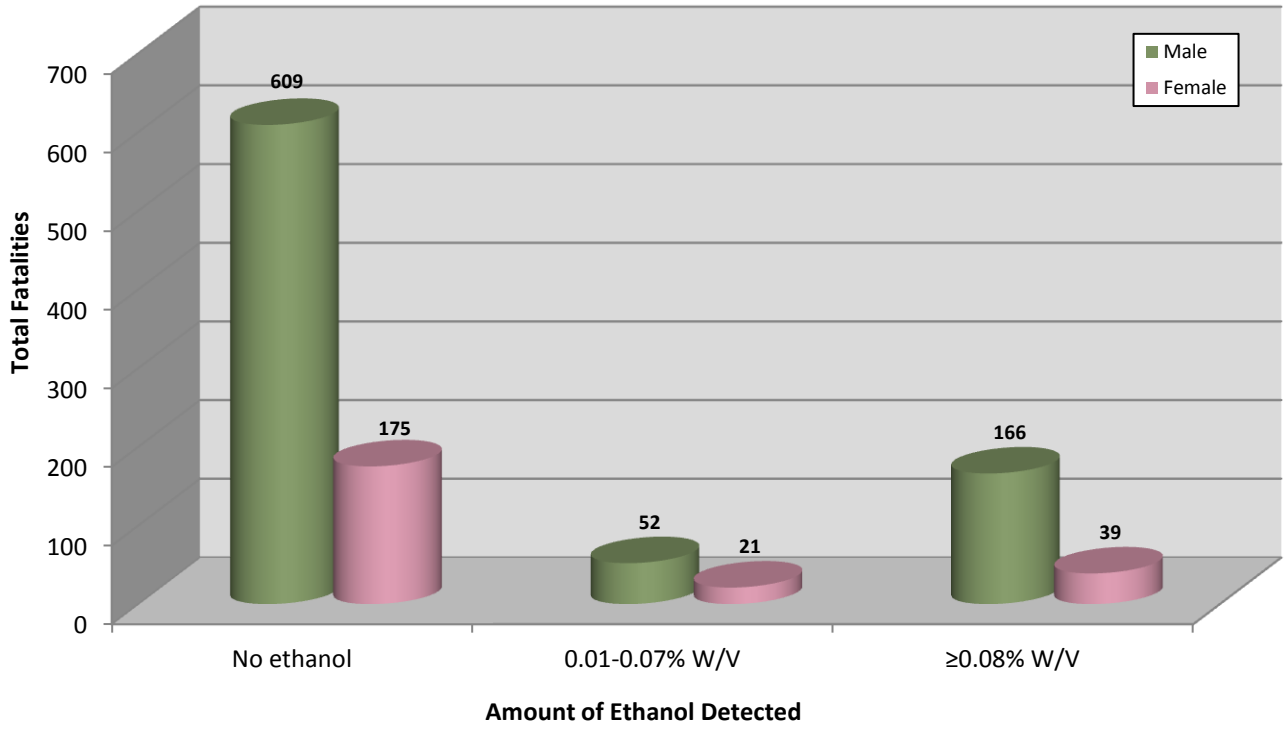


Table 2.15 Total Number of OCME Suicide Deaths by Manner of Death and Ethanol Level, 2013

Method of Death	No Ethanol	0.01-0.07% W/V	≥0.08% W/V	Total
Asphyxia				
Drowned	14	3	1	**18**
Hanged	148	13	41	**202**
Helium asphyxia	8	0	2	**10**
Plastic bag asphyxia	8	0	1	**9**
Oxygen replacement/displacement	3	0	1	**4**
Other asphyxia	0	1	0	**1**
Drug Poisoning				
Ingested and/or injected illicit, prescription, and/or other type of drug	99	21	19	**139**
Jump/Fall				
Jump/Fall from height	20	1	3	**24**
Poisoned				
Carbon monoxide poisoning	10	4	1	**15**
Ingested ethylene glycol	2	0	0	**2**
Ingested other poison (ex. heavy metals, etc.)	1	0	0	**1**
Other				
Other	4	0	0	**4**
Traumatic Injury				
Cut/Stabbed self	9	0	3	**12**
Thermal burns and/or inhalation of combustible material	7	0	1	**8**
Shot self with firearm				
Handgun	338	22	94	454
Rifle	42	4	14	60
Shotgun	51	4	15	70
Unknown	4	0	2	6
Vehicular Collision				
Aircraft	1	0	0	**1**
Car	4	0	4	**8**
Dump truck	1	0	0	**1**
Sport utility vehicle	0	0	1	**1**
Tractor trailer	2	0	0	**2**
Train	5	0	2	**7**
Van	2	0	0	**1**
Unknown	1	0	0	**2**
TOTAL SUICIDE DEATHS	**784**	**73**	**205**	**1062**

Figure 2.27 Total Number of OCME Suicide Deaths by Month of Death, 2013

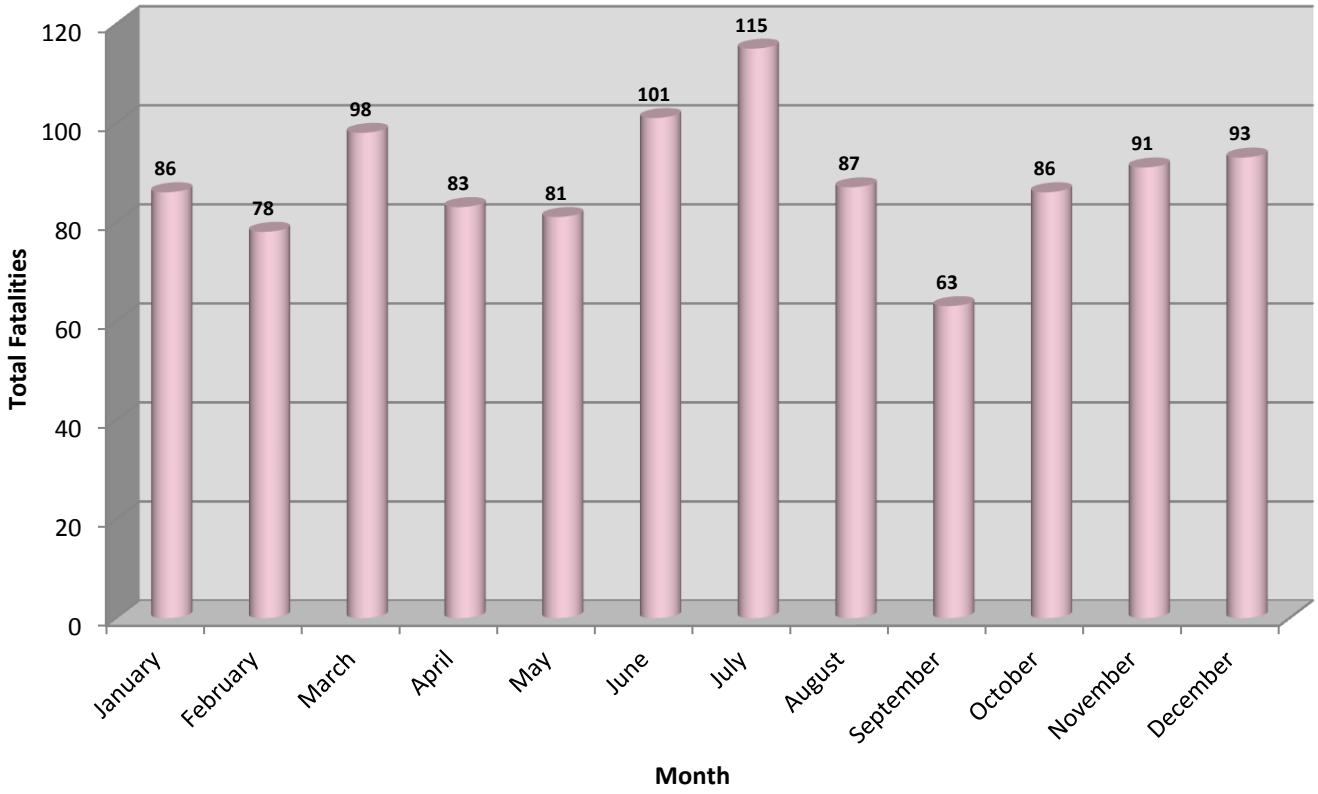


Figure 2.28 Total Number of OCME Suicide Cases by Day of the Week, 2013

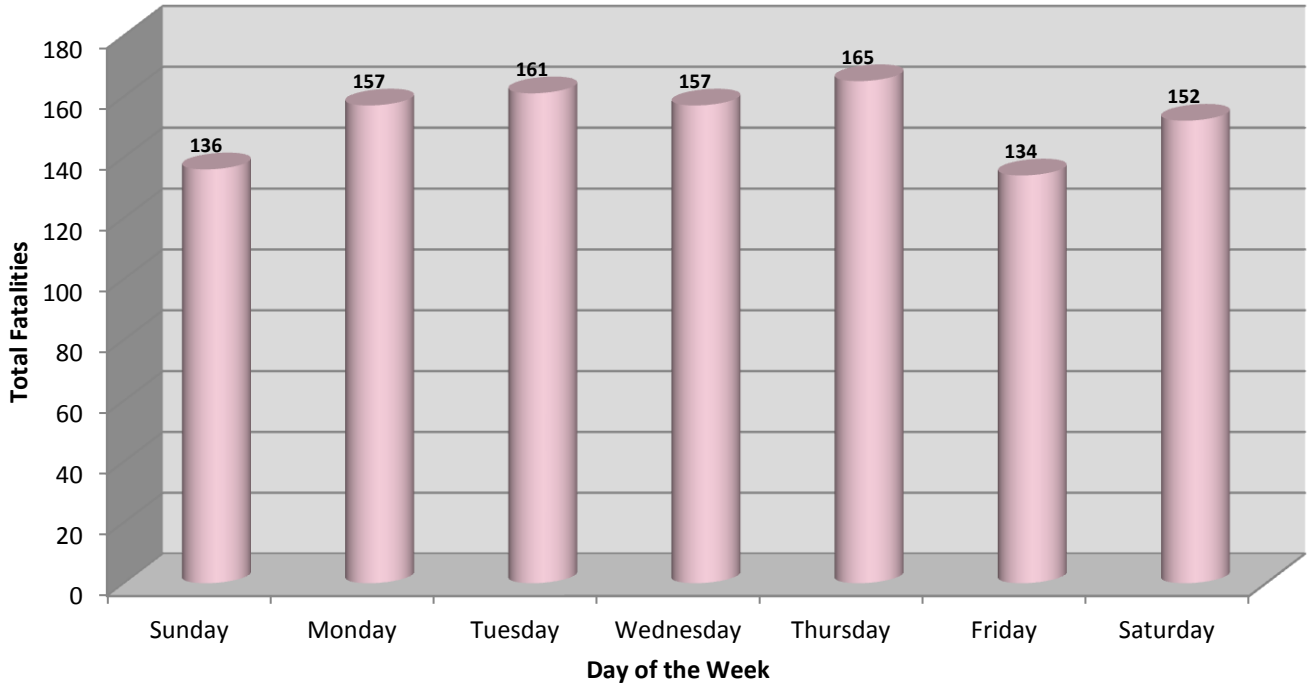


Table 2.16 Total Number and Rate of OCME Suicide Cases by Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	4	12.1
Albemarle County	12	11.7
Alexandria City	13	8.7
Alleghany County	1	6.2
Amelia County	0	0.0
Amherst County	2	6.2
Appomattox County	1	6.6
Arlington County	16	7.1
Augusta County	22	29.8
Bath County	1	21.7
Bedford City	3	50.4
Bedford County	9	12.9
Bland County	1	14.8
Botetourt County	6	18.2
Bristol City	1	5.8
Brunswick County	2	11.8
Buchanan County	5	21.2
Buckingham County	4	23.3
Buena Vista City	1	15.0
Campbell County	14	25.3
Caroline County	8	27.3
Carroll County	8	26.8
Charles City County	0	0.0
Charlotte County	3	24.4
Charlottesville City	4	9.0
Chesapeake City	28	12.1
Chesterfield County	50	15.3
Clarke County	1	7.0
Colonial Heights City	1	5.7
Covington City	2	34.4
Craig County	3	57.6
Culpeper County	8	16.5
Cumberland County	2	20.3
Danville City	5	11.7
Dickenson County	6	38.7

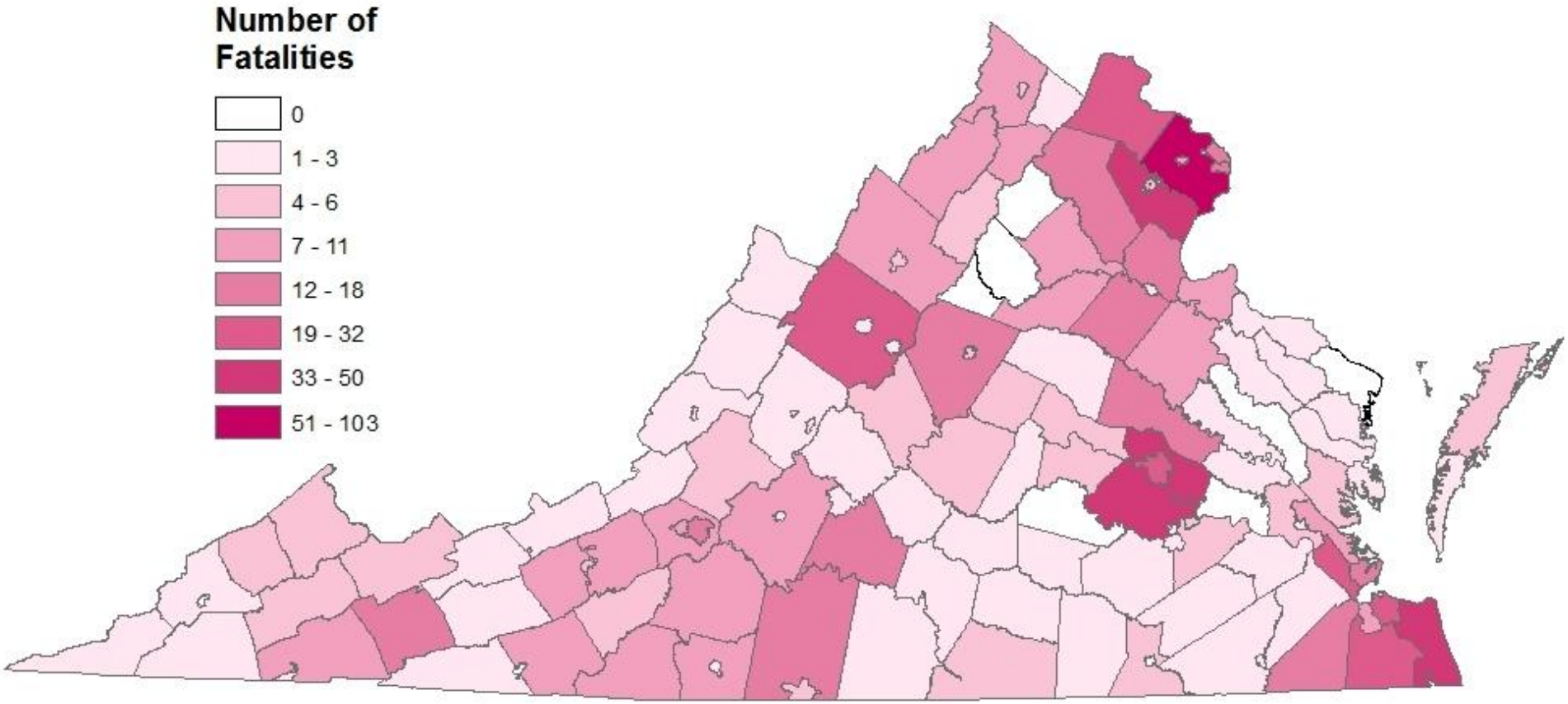
County/City of Residence	Total	Rate
Dinwiddie County	1	3.6
Emporia City	0	0.0
Essex County	2	17.8
Fairfax City	9	37.5
Fairfax County	103	9.1
Falls Church City	2	14.8
Fauquier County	14	20.8
Floyd County	4	25.8
Fluvanna County	5	19.2
Franklin City	1	11.6
Franklin County	9	16.0
Frederick County	11	13.5
Fredericksburg City	2	7.1
Galax City	0	0.0
Giles County	2	11.8
Gloucester County	4	10.9
Goochland County	6	27.7
Grayson County	2	13.2
Greene County	0	0.0
Greensville County	4	33.7
Halifax County	3	8.5
Hampton City	15	11.0
Hanover County	18	17.8
Harrisonburg City	6	11.7
Henrico County	40	12.6
Henry County	9	17.1
Highland County	2	90.3
Hopewell City	6	27.1
Isle of Wight County	3	8.4
James City County	4	5.7
King and Queen County	0	0.0
King George County	8	32.1
King William County	3	18.6
Lancaster County	2	17.9
Lee County	3	11.9

County/City of Residence	Total	Rate
Lexington City	1	13.9
Loudoun County	32	9.2
Louisa County	1	2.9
Lunenburg County	2	16.0
Lynchburg City	3	3.8
Madison County	0	0.0
Manassas City	4	9.6
Manassas Park City	2	12.4
Martinsville City	3	21.8
Mathews County	1	11.2
Mecklenburg County	5	15.9
Middlesex County	3	27.9
Montgomery County	7	7.3
Nelson County	6	40.6
New Kent County	3	15.4
Newport News City	21	11.5
Norfolk City	28	11.4
Northampton County	1	8.2
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.3
Orange County	8	23.1
Page County	5	21.0
Patrick County	9	49.0
Petersburg City	3	9.2
Pittsylvania County	16	25.6
Poquoson City	1	8.3
Portsmouth City	10	10.4
Powhatan County	5	17.7
Prince Edward County	2	8.8
Prince George County	5	13.4
Prince William County	42	9.6
Pulaski County	7	20.3
Radford City	6	34.9
Rappahannock County	0	0.0

County/City of Residence	Total	Rate
Richmond City	23	10.7
Richmond County	1	11.2
Roanoke City	18	18.3
Roanoke County	10	10.7
Rockbridge County	3	13.4
Rockingham County	8	10.3
Russell County	6	21.2
Salem City	8	31.6
Scott County	3	13.3
Shenandoah County	7	16.4
Smyth County	12	37.9
Southampton County	2	11.0
Spotsylvania County	12	9.4
Stafford County	18	13.2
Staunton City	3	12.3
Suffolk City	12	14.0
Surry County	1	14.8
Sussex County	2	16.9
Tazewell County	5	11.3
Virginia Beach City	45	10.0
Warren County	7	18.1
Washington County	7	12.7
Waynesboro City	2	9.4
Westmoreland County	3	17.0
Williamsburg City	1	6.6
Winchester City	4	14.7
Wise County	2	4.9
Wythe County	2	6.8
York County	7	10.6
Subtotal (in state)	**1027**	**12.4**
Out of State	33	ND
Unknown	2	ND
Subtotal (out of state)	**35**	**ND**
TOTAL	**1062**	**12.9**

Note: No denominator is represented by ND

Map 2.5 Total Number of OCME Suicides by Locality of Residence, 2013



Map 2.6 Suicide Rates by Locality of Residence, 2013

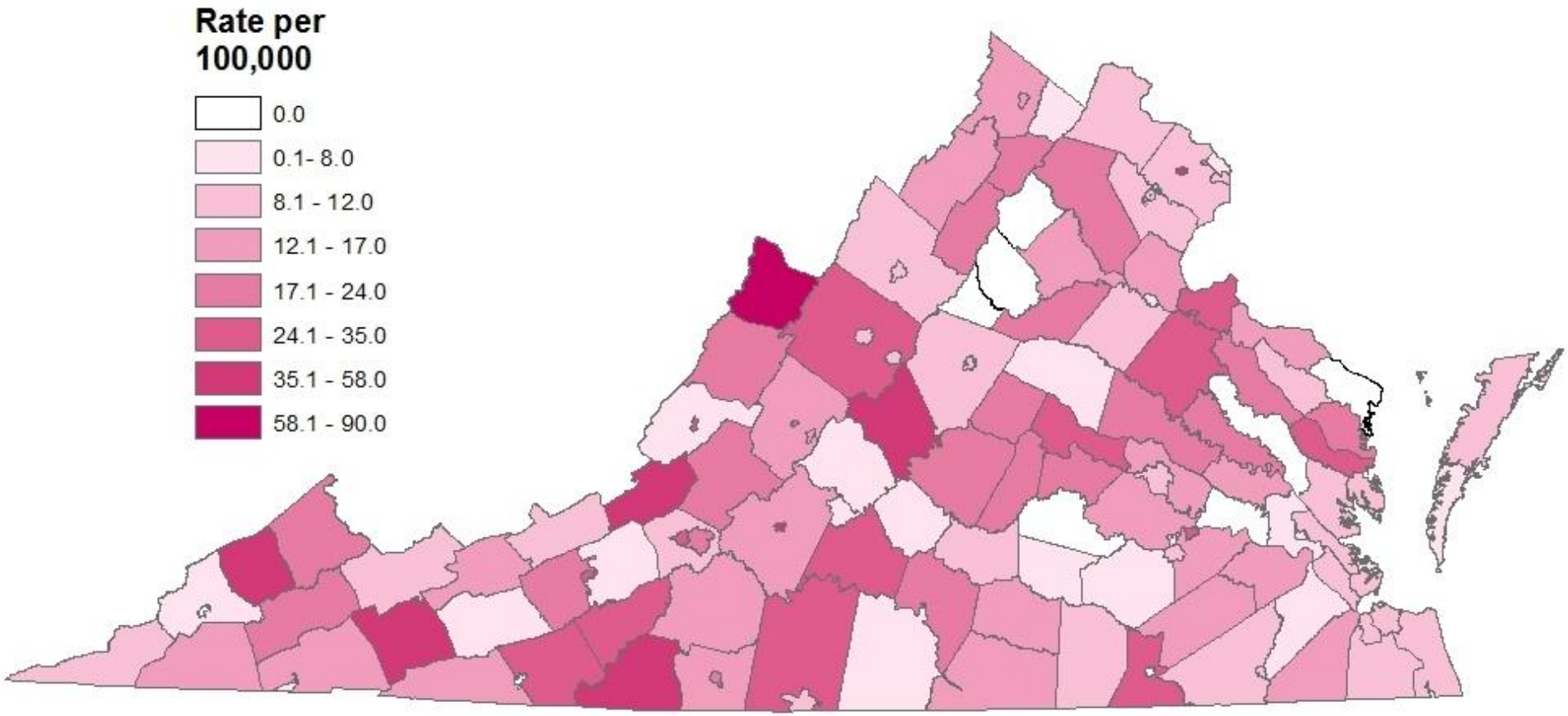


Table 2.17 Total Number of OCME Suicide Deaths by Locality of Injury and Year of Death, 2006-2013

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Accomack County	4	2	1	4	6	6	1	4	**28**
Albemarle County	2	6	8	13	6	11	10	12	**68**
Alexandria City	12	11	13	14	14	14	10	16	**104**
Alleghany County	3	2	0	4	6	5	4	1	**25**
Amelia County	2	1	1	3	1	4	6	1	**19**
Amherst County	4	6	6	7	7	5	7	2	**44**
Appomattox County	2	0	0	3	3	2	2	1	**13**
Arlington County	14	12	28	10	21	16	16	18	**135**
Augusta County	12	11	13	16	11	14	16	20	**113**
Bath County	1	0	1	0	0	1	1	2	**6**
Bedford City	1	1	1	2	2	0	1	3	**11**
Bedford County	7	6	9	14	14	13	8	10	**81**
Bland County	2	1	0	3	1	1	1	1	**10**
Botetourt County	3	4	3	5	2	6	5	7	**35**
Bristol City	4	4	1	2	3	3	1	1	**19**
Brunswick County	2	2	1	1	3	1	1	2	**13**
Buchanan County	5	6	7	7	10	1	5	4	**45**
Buckingham County	3	3	5	1	3	2	2	4	**23**
Buena Vista City	0	0	1	1	1	0	0	1	**4**
Campbell County	6	3	7	6	6	10	9	13	**60**
Caroline County	3	6	3	3	5	2	2	8	**32**
Carroll County	6	8	6	10	9	7	6	8	**60**
Charles City County	0	0	2	2	2	3	7	1	**17**
Charlotte County	3	2	1	3	2	3	1	3	**18**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Charlottesville City	11	7	5	4	3	1	7	5	**43**
Chesapeake City	19	20	18	25	26	24	26	26	**184**
Chesterfield County	29	25	32	32	34	40	39	47	**278**
Clarke County	2	1	3	3	3	5	0	1	**18**
Colonial Heights City	1	2	3	1	2	1	6	2	**18**
Covington City	2	2	1	0	0	2	2	2	**11**
Craig County	0	1	2	4	0	2	1	4	**14**
Culpeper County	6	10	2	11	5	7	9	5	**55**
Cumberland County	0	1	2	2	0	3	1	3	**12**
Danville City	7	3	4	8	7	6	4	5	**44**
Dickenson County	2	5	5	8	7	5	7	7	**46**
Dinwiddie County	3	3	1	1	7	3	2	1	**21**
Emporia City	3	0	2	1	1	0	0	0	**7**
Essex County	0	1	3	2	3	2	3	2	**16**
Fairfax City	2	2	1	6	4	2	2	4	**23**
Fairfax County	85	86	88	104	87	90	98	109	**747**
Falls Church City	0	1	3	0	1	0	2	1	**8**
Fauquier County	7	4	8	9	14	14	13	16	**85**
Floyd County	2	2	1	3	4	4	5	5	**26**
Fluvanna County	2	3	4	2	2	3	5	6	**27**
Franklin City	0	0	0	0	1	0	1	1	**3**
Franklin County	5	8	6	7	3	10	11	12	**62**
Frederick County	9	7	7	8	8	14	19	12	**84**
Fredericksburg City	6	4	5	2	4	5	4	2	**32**
Galax City	1	1	2	1	3	3	1	0	**12**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Giles County	2	3	3	5	3	4	2	3	**25**
Gloucester County	7	6	9	4	8	13	9	4	**60**
Goochland County	2	5	2	4	2	0	1	6	**22**
Grayson County	3	2	5	2	2	8	5	2	**29**
Greene County	4	2	2	3	4	3	1	1	**20**
Greensville County	2	0	0	2	2	4	1	4	**15**
Halifax County	8	4	4	5	5	4	6	3	**39**
Hampton City	13	16	18	16	9	7	13	17	**109**
Hanover County	12	15	17	11	6	15	23	21	**120**
Harrisonburg City	2	4	4	6	6	2	1	4	**29**
Henrico County	37	26	25	39	30	42	31	41	**271**
Henry County	11	12	19	13	16	10	9	9	**99**
Highland County	0	0	0	0	1	1	1	2	**5**
Hopewell City	1	1	2	3	3	2	3	4	**19**
Isle of Wight County	5	1	0	3	2	4	6	4	**25**
James City County	5	4	9	7	9	6	10	4	**54**
King and Queen County	2	4	2	1	1	1	3	0	**14**
King George County	3	2	2	3	6	3	4	8	**31**
King William County	1	1	1	4	0	2	7	2	**18**
Lancaster County	0	3	4	1	2	2	4	2	**18**
Lee County	5	4	7	5	2	5	9	4	**41**
Lexington City	0	1	0	0	0	0	1	1	**3**
Loudoun County	20	23	13	24	20	35	35	34	**204**
Louisa County	5	8	2	5	9	7	3	3	**42**
Lunenburg County	6	1	1	3	1	2	3	2	**19**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Lynchburg City	8	6	13	5	9	10	6	4	**61**
Madison County	2	4	3	1	3	1	4	1	**19**
Manassas City	2	3	9	3	1	5	5	4	**32**
Manassas Park City	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	0	2	**0**
Martinsville City	0	4	0	1	1	4	1	3	**14**
Mathews County	1	0	2	0	1	2	1	1	**8**
Mecklenburg County	4	6	7	5	8	4	4	4	**42**
Middlesex County	0	1	1	5	1	3	3	4	**18**
Montgomery County	11	22	8	5	9	14	8	7	**84**
Nelson County	2	1	3	4	4	3	3	4	**24**
New Kent County	3	3	2	3	1	6	5	3	**26**
Newport News City	11	15	18	14	20	23	29	19	**149**
Norfolk City	27	34	29	22	29	28	29	30	**228**
Northampton County	0	4	1	0	1	5	0	2	**13**
Northumberland County	1	3	2	0	4	3	0	0	**13**
Norton City	0	0	2	1	0	1	1	0	**5**
Nottoway County	1	0	4	4	3	3	2	1	**18**
Orange County	6	4	5	2	4	5	12	6	**44**
Page County	6	5	7	3	4	8	4	5	**42**
Patrick County	3	4	4	4	7	4	5	9	**40**
Petersburg City	1	4	7	3	4	3	4	2	**28**
Pittsylvania County	13	9	6	13	9	9	12	16	**87**
Poquoson City	1	1	1	0	0	0	0	2	**5**
Portsmouth City	8	14	10	11	16	8	20	9	**96**
Powhatan County	5	2	4	2	8	6	5	4	**36**

County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Prince Edward County	3	3	1	5	3	3	4	3	**25**
Prince George County	6	7	7	7	5	4	3	5	**44**
Prince William County	32	29	35	41	42	28	33	37	**277**
Pulaski County	11	10	2	6	9	9	6	7	**60**
Radford City	1	0	2	0	2	1	1	5	**12**
Rappahannock County	0	4	3	1	3	2	5	0	**18**
Richmond City	32	25	22	35	21	33	25	27	**220**
Richmond County	1	1	4	0	2	1	1	1	**11**
Roanoke City	10	15	19	13	18	19	25	16	**135**
Roanoke County	11	7	19	9	20	14	13	12	**105**
Rockbridge County	5	4	6	5	5	6	3	3	**37**
Rockingham County	9	10	9	4	12	10	9	10	**73**
Russell County	5	4	10	7	5	6	6	6	**49**
Salem City	4	7	5	0	2	6	6	6	**36**
Scott County	3	12	5	4	5	6	5	4	**44**
Shenandoah County	7	5	8	8	5	9	7	7	**56**
Smyth County	3	11	5	3	3	6	7	10	**48**
Southampton County	4	1	4	3	4	2	2	2	**22**
Spotsylvania County	13	18	17	10	22	11	13	15	**119**
Stafford County	6	14	15	15	5	9	13	19	**96**
Staunton City	4	7	1	6	4	4	1	3	**30**
Suffolk City	11	1	10	6	5	14	12	12	**71**
Surry County	0	1	0	4	1	0	2	1	**9**
Sussex County	1	2	1	4	4	1	1	4	**18**
Tazewell County	11	4	4	12	6	6	8	5	**56**

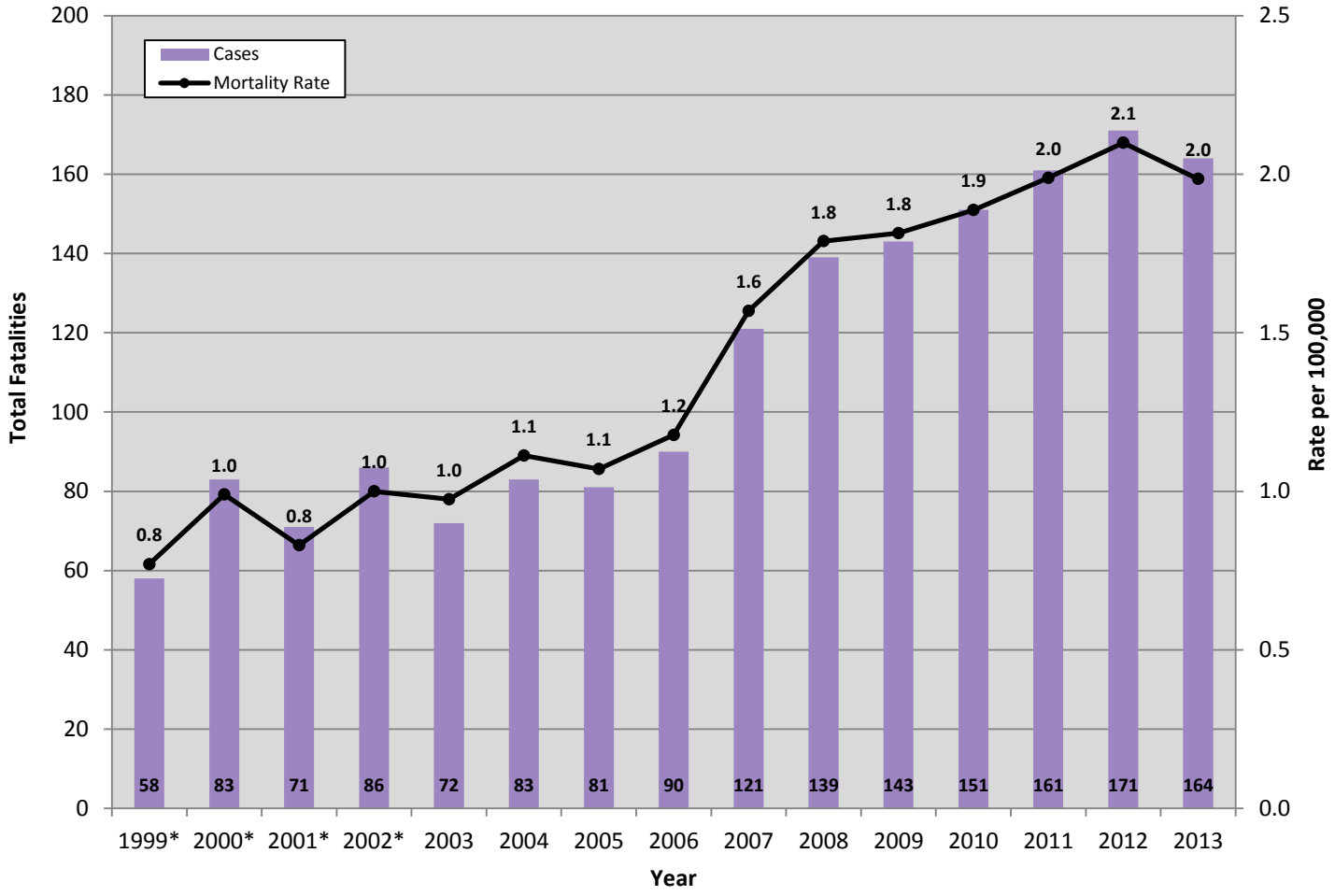
County/City of Injury	2006	2007	2008	2009	2010	2011	2012	2013	Total
Virginia Beach City	61	50	45	60	64	65	51	49	**445**
Warren County	3	12	8	6	5	7	8	7	**56**
Washington County	6	10	11	13	10	10	11	9	**80**
Waynesboro City	6	3	3	4	2	3	2	4	**27**
Westmoreland County	4	2	4	2	2	5	5	3	**27**
Williamsburg City	10	2	1	1	8	6	1	0	**29**
Winchester City	6	1	7	2	6	5	3	3	**33**
Wise County	9	13	8	4	5	9	3	3	**54**
Wythe County	4	4	8	5	2	7	4	3	**37**
York County	3	8	11	6	11	15	8	7	**69**
Subtotal (in state)	**882**	**900**	**945**	**969**	**991**	**1058**	**1051**	**1056**	**7850**
Out of State	2	6	3	4	4	9	2	6	**36**
Unknown	0	0	1	1	1	0	0	0	**3**
Subtotal (out of state)	**2**	**6**	**4**	**5**	**5**	**9**	**2**	**6**	**39**
TOTAL	**884**	**906**	**949**	**974**	**996**	**1067**	**1053**	**1062**	**7889**

UNDETERMINED DEATHS (N=164)

In 2013, the number of undetermined deaths decreased, for the first time in seven years, by 4.1% in 2013 compared to 2012.

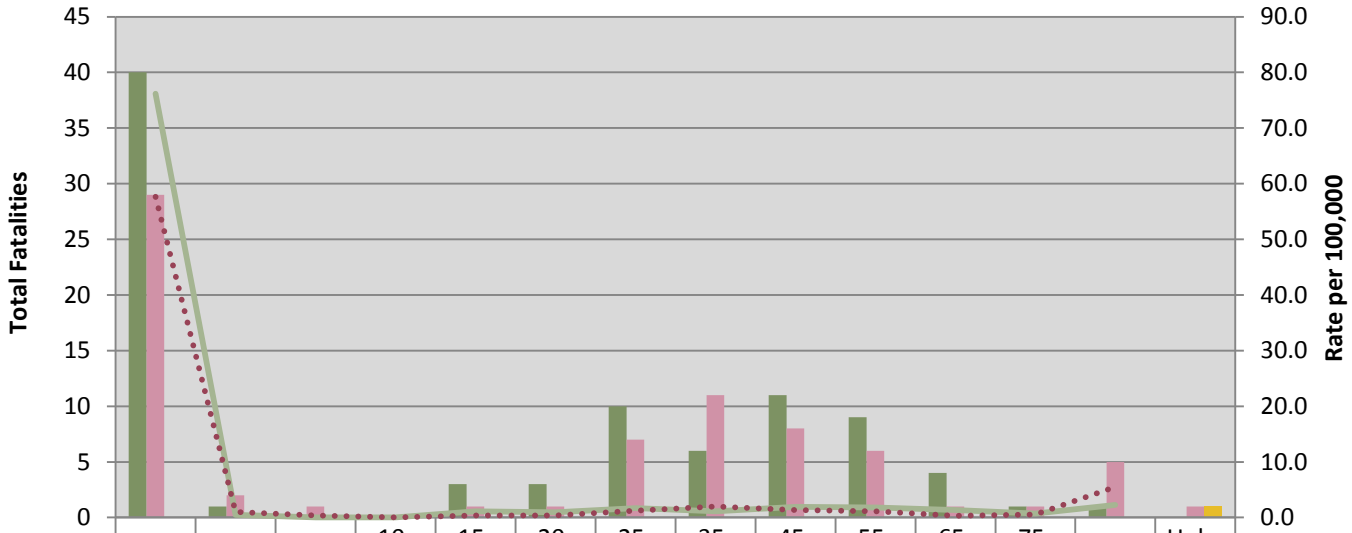
- Over thirty-eight percent of the cases assigned an undetermined manner had a determined cause of death
- Over forty-two percent of deaths with an undetermined manner were among infants less than 1 year of age

Figure 2.29 Total Number and Rate of OCME Undetermined Deaths by Year of Death, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); Stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports.

Figure 2.30 Total Number and Rate of OCME Undetermined Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unknown
Male	40	1	0	0	3	3	10	6	11	9	4	1	1	0
Female	29	2	1	0	1	1	7	11	8	6	1	1	5	1
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Male Rate	76.2	0.5	0.0	0.0	1.1	1.0	1.7	1.1	1.9	1.8	1.3	0.7	2.3	*
Female Rate	57.7	1.0	0.4	0.0	0.4	0.3	1.2	2.0	1.3	1.1	0.3	0.5	5.5	*

Age Group (years)

*No rate can be calculated

Figure 2.31 Percentage of OCME Undetermined Deaths by Race/Ethnicity, 2013

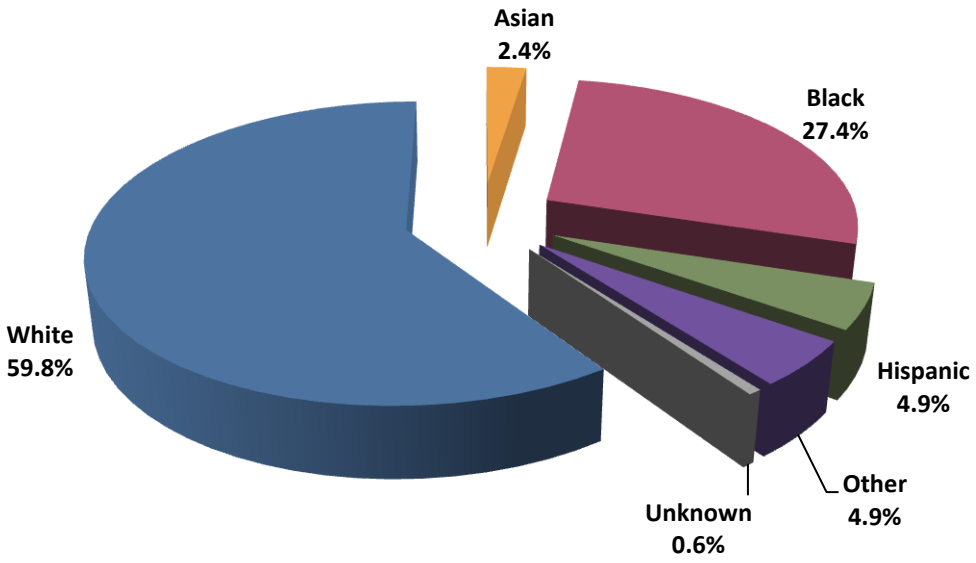


Table 2.18 Total Number of OCME Undetermined Deaths by Cause and Method of Death, 2013

Undetermined Manner of Death with Cause of Death Determined	Autopsied	Total Cases
Asphyxia		
Drowned	5	**5**
Drug Poisoning		
Ingested and/or injected illicit, prescription, and/or OTC medication	22	**28**
Fire		
Thermal burns and/or inhalation of combustion products	4	**4**
Jump/Fall		
Jumped/Fell from height	1	**1**
Motor Vehicle		
Car	4	**4**
Pickup truck	2	**2**
Sport utility vehicle	1	**1**
Unspecified/Unknown	1	**1**
Traumatic Injury		
Beaten/Battered	1	**1**
Gunshot wound		
Handgun	11	**11**
Rifle	1	**1**
Unspecified/Unknown	0	**1**
Other traumatic causes	3	**3**
Subtotal (Undetermined Manner with Determined Cause of Death)	**56**	**63**
Undetermined Manner of Death and Undetermined Cause of Death		
Undetermined cause after autopsy and/or investigation	99	**101**
Subtotal (Undetermined Manner and Undetermined Cause of Death)	**99**	**101**
TOTAL UNDETERMINED DEATHS	**155**	**164**

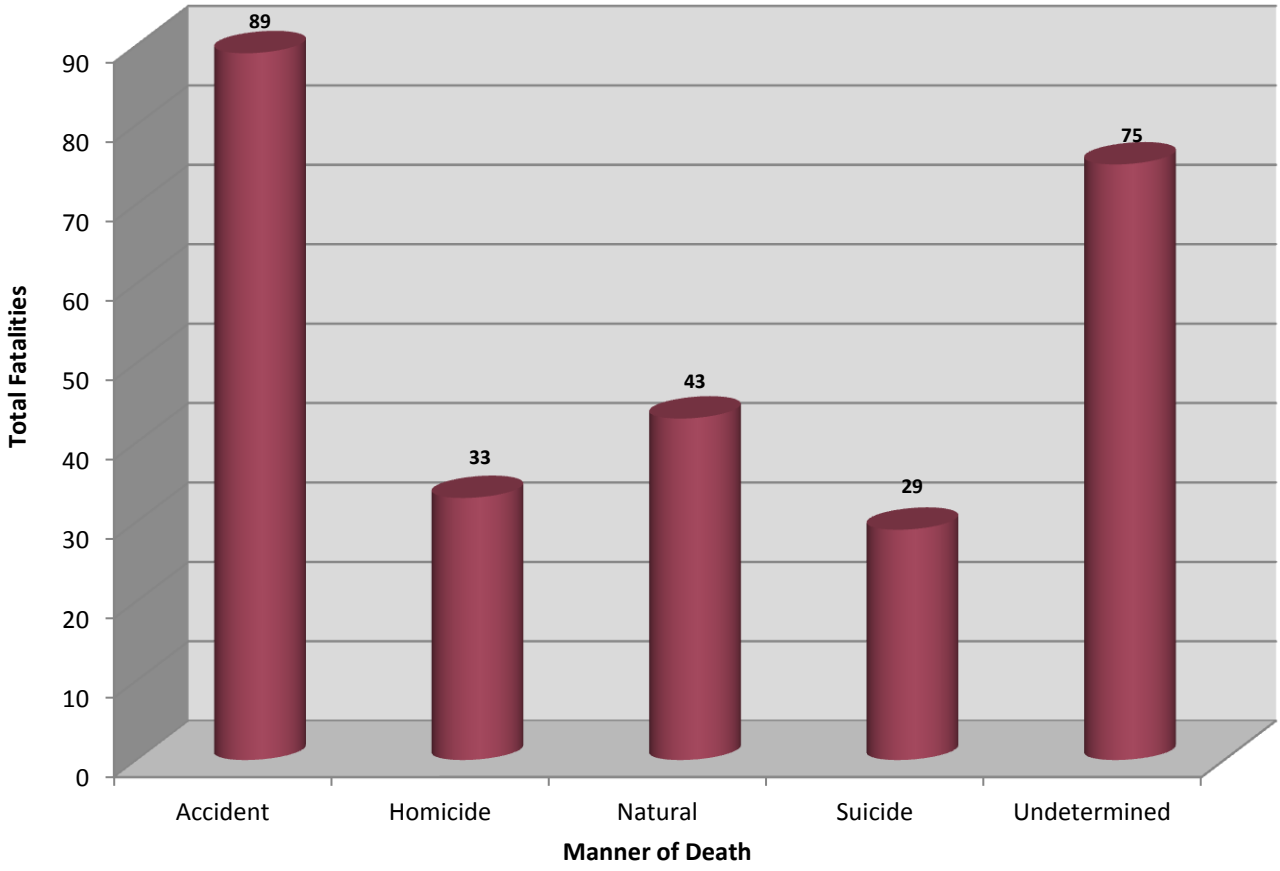
SECTION 3: DEATHS OF CHILDREN (N=269)

Child deaths are deaths of persons aged 17 years and younger.

The OCME investigated 269 deaths of children, representing 4.6% of all OCME deaths in 2013.

- Males represented 61.7% of all child cases
- Infants under one year of age had the largest percentage of cases (44.2%)
- The leading causes of death were Sudden Unexpected Infant Death (SUID) cases (20.1%), followed by blunt force injuries to the head or neck (12.3%), and drowning (7.8%)

Figure 3.1 Total Number of OCME Child Deaths by Manner, 2013



*The manner of death is classified as undetermined in all SUID cases

Figure 3.2 Total Number of OCME Child Deaths by Age and Gender, 2013

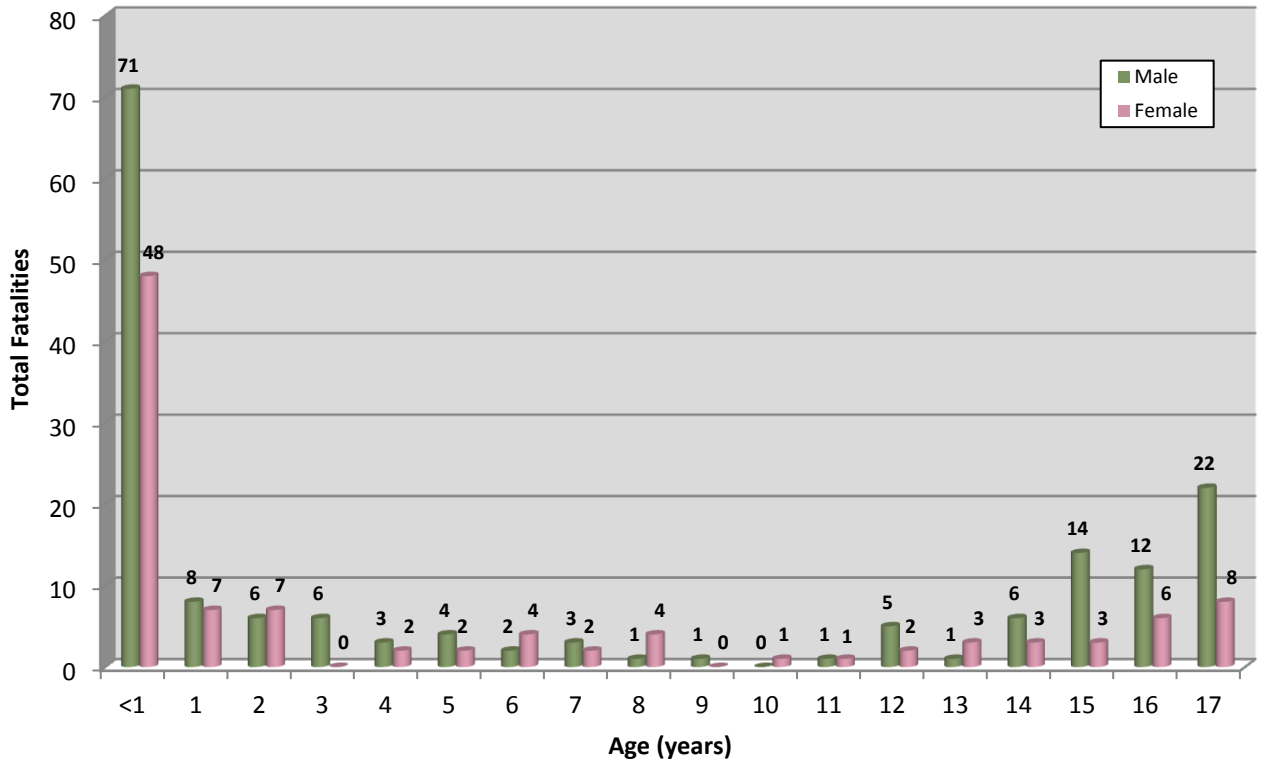


Figure 3.3 Percentage of OCME Child Deaths by Race/Ethnicity, 2013

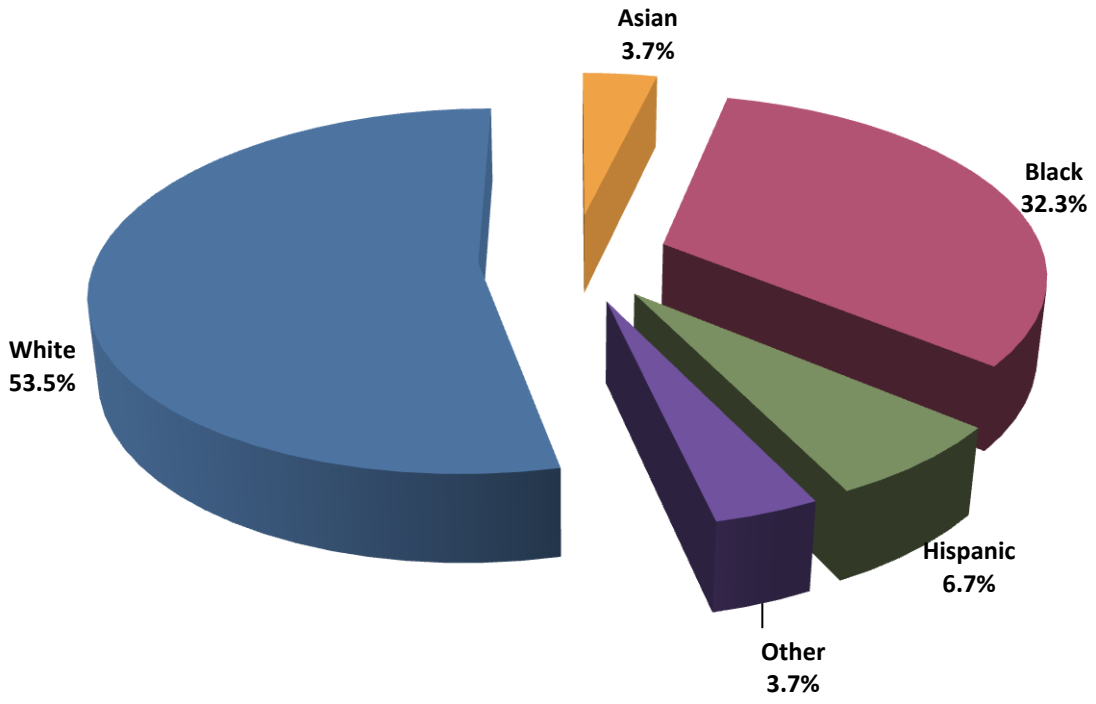


Figure 3.4 Total Number of OCME Child Deaths by Manner and Race/Ethnicity, 2013

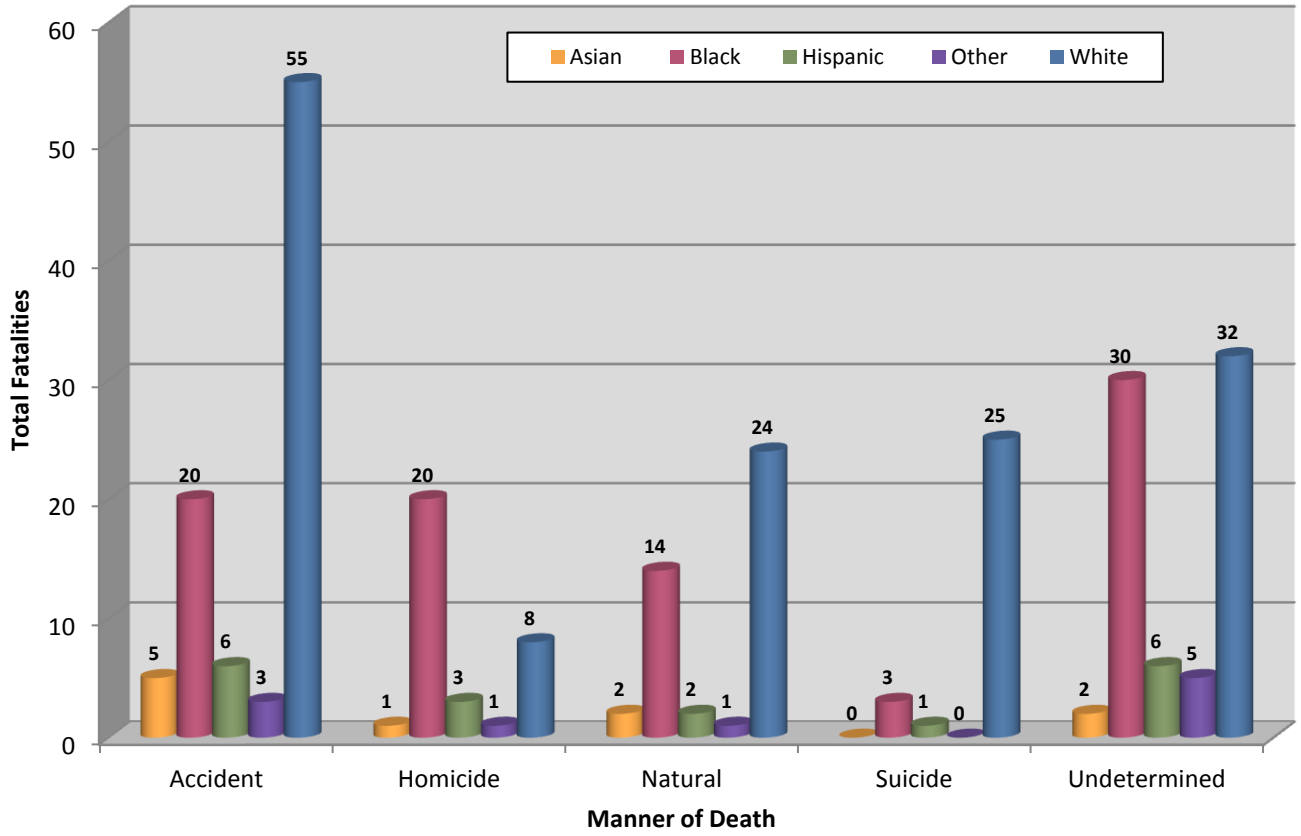


Table 3.1 Total Number of OCME Child Deaths by Cause and Method of Death, 2013

NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	1	**1**
Arrhythmogenic right ventricular dysplasia	1	**1**
Cardiac arrhythmia not otherwise specified	2	**2**
Congenital defect	2	**2**
Other cardiac disease/disorder	2	**2**
Central Nervous System (CNS) Diseases/Disorders		
Seizure disorder	1	**1**
Other CNS disease/disorder	2	**2**
Gastrointestinal (GI) Diseases/Disorders		
GI hemorrhage	1	**1**
Other GI disease/disorder	1	**1**
Other Natural Disease/Disorder		
Other natural disease/disorder	2	**2**
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	3	**3**
Other perinatal or pediatric disorder	2	**2**
Sudden Infant Death Syndrome (SIDS)	1	**1**
Pulmonary Diseases/Disorders		
Asthma	3	**3**
Emboli	1	**1**
Other pulmonary diseases/disorders	3	**3**
Pneumonia	7	**7**
Systemic Diseases/Disorders		
Other infectious disease	4	**4**
Other systemic diseases/disorders	2	**2**
Sepsis	2	**2**
Subtotal of Natural Child Deaths	**42**	**42**
UNNATURAL CHILD DEATHS	**Autopsied**	**Total Cases**
Asphyxia		
Choking (aspiration of food or foreign object)	2	**2**
Drowning	16	**21**
Hanging	11	**16**
Mechanical/Positional asphyxia	4	**4**
Strangulation/Neck compression	1	**1**

Suffocation/Smothering	15	**15**
Blunt Force Injuries		
Abdomen	1	**2**
Chest	1	**1**
Extremities	1	**1**
Head/Neck	19	**33**
Multiple	5	**13**
Torso	2	**3**
Drug Poisoning		
Illegal drug poisoning	2	**2**
Inhalant poisoning	1	**1**
Mixed drug poisoning	2	**2**
Not specified poisoning	1	**1**
Over the counter (OTC) poisoning	1	**1**
Other poisoning (heavy metals, etc)	1	**1**
Prescription drug poisoning	3	**4**
Electrical		
Contacted electrical current	1	**1**
Exposure		
Exposed to heat	3	**3**
Fire		
Thermal burns and/or inhalation of combustion products	8	**8**
Gunshot Wound		
Handgun	16	**16**
Rifle	1	**1**
Shotgun	1	**1**
Unknown/Unspecified	1	**1**
Other Unnatural Deaths		
Other	2	**2**
Subtotal of Unnatural Child Deaths	**122**	**157**
UNDETERMINED CHILD DEATHS	**Autopsied**	**Total Cases**
Undetermined After Autopsy and/or Investigation		
Sudden Unexpected Infant Death (SUID)	54	**54**
Undetermined cause after autopsy and/or investigation	16	**16**
Subtotal of Undetermined Child Deaths	**70**	**70**
TOTAL CHILD DEATHS	**234**	**269**

ACCIDENTAL CHILD DEATHS (N=89)

The number of accidental child deaths decreased by 14.4% between 2012 and 2013.

- Accidental deaths occurred more frequently in males (65.2%), whites (61.8%), and those aged 15-17 years (27.0%)
- Motor vehicle accidents were the leading method of death (34.8%), followed by drowning (20.2%)

Figure 3.5 Total Number and Rate of OCME Accidental Child Deaths by Year, 2003-2013

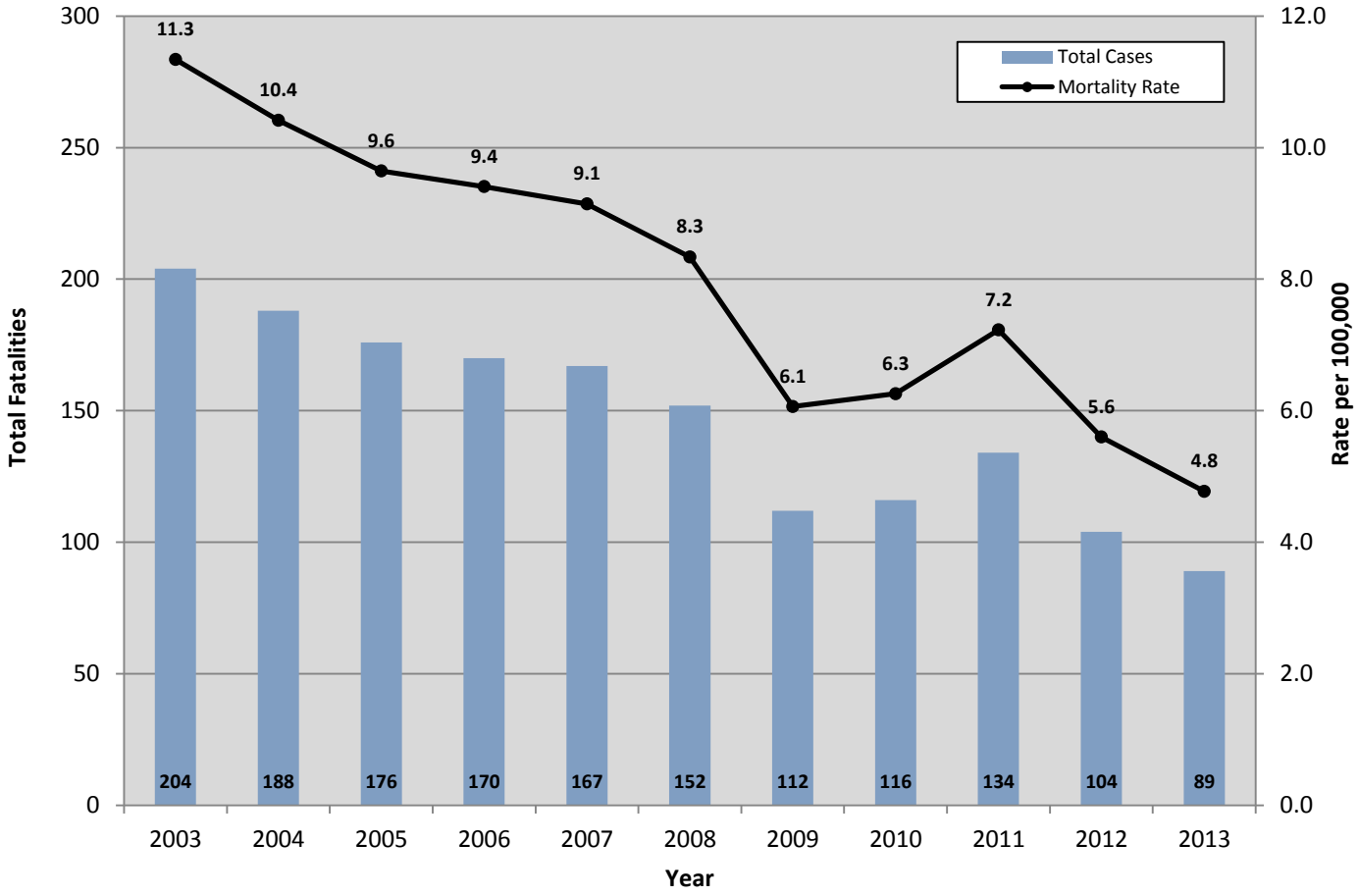
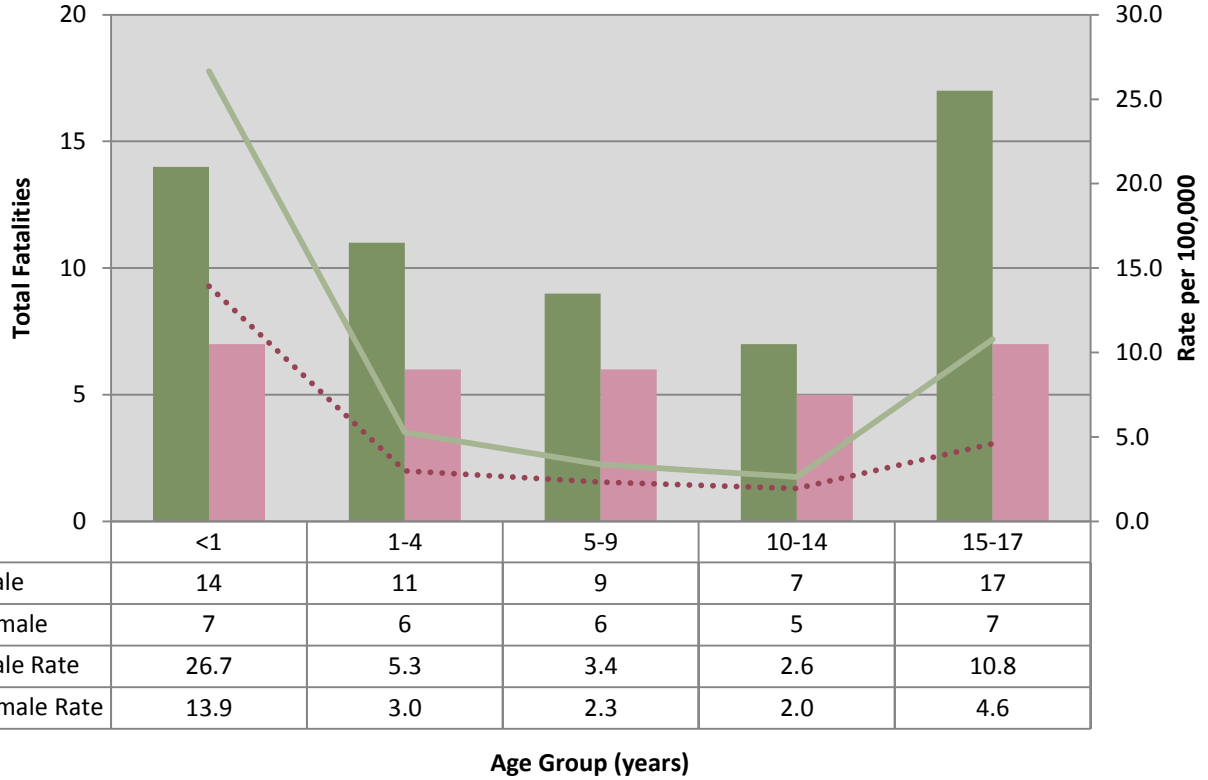


Figure 3.6 Total Number and Rate of OCME Accidental Child Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-17
Male	14	11	9	7	17
Female	7	6	6	5	7
Male Rate	26.7	5.3	3.4	2.6	10.8
Female Rate	13.9	3.0	2.3	2.0	4.6

Figure 3.7 Percentage of Accidental Child Deaths by Race/Ethnicity, 2013

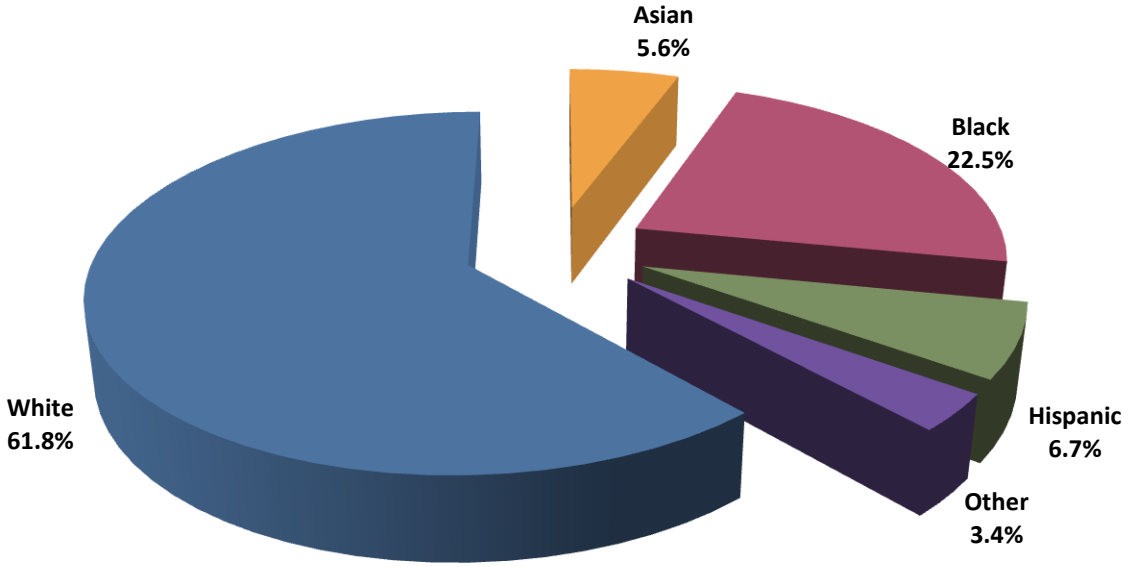


Figure 3.8 Total Number of OCME Accidental Child Deaths by Month, 2013

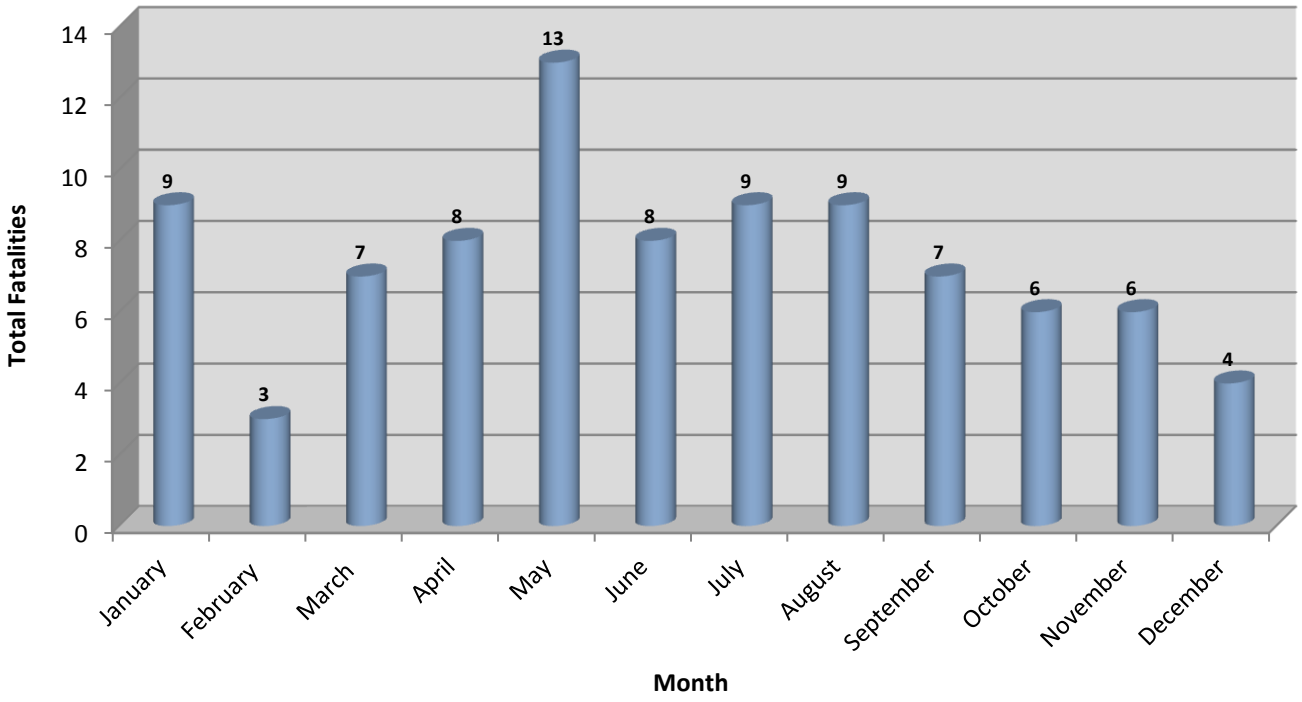


Figure 3.9 Total Number of OCME Accidental Child Deaths by Day of the Week, 2013

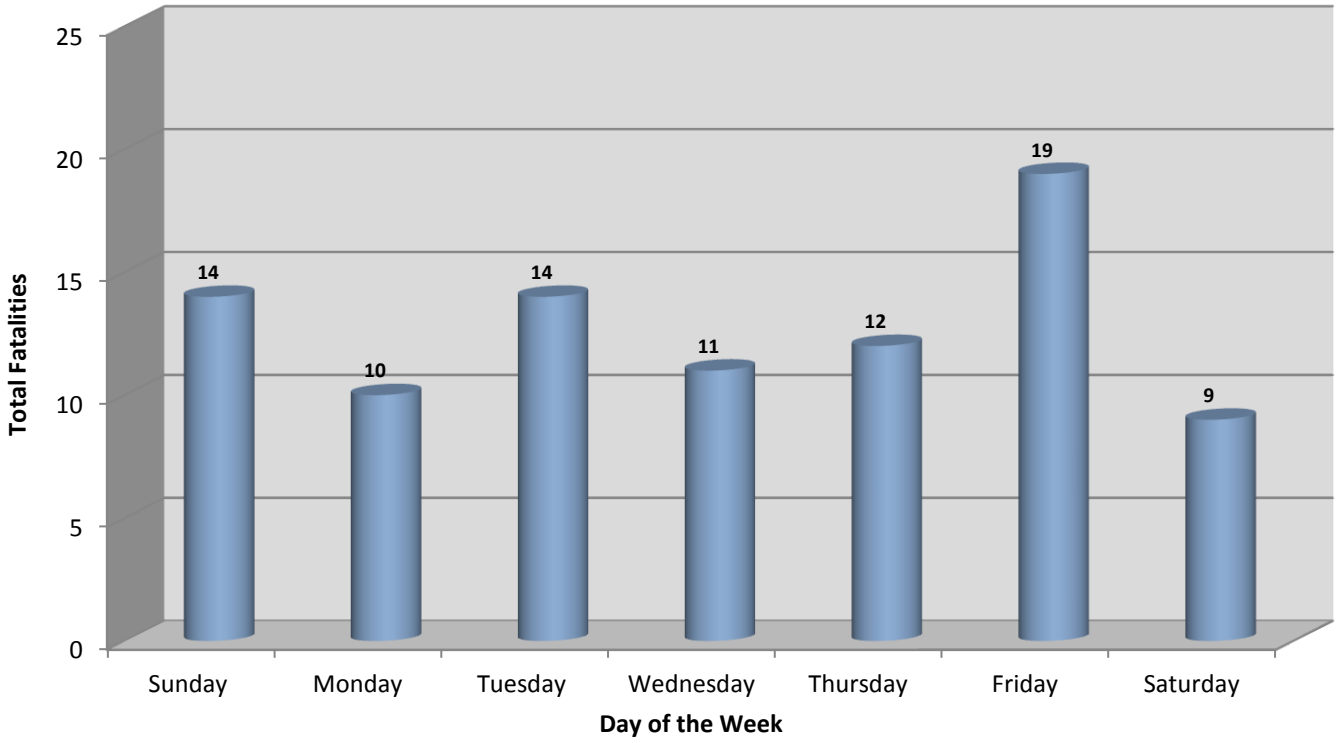


Table 3.2 Total Number of OCME Accidental Child Deaths by Cause and Method of Death, 2013

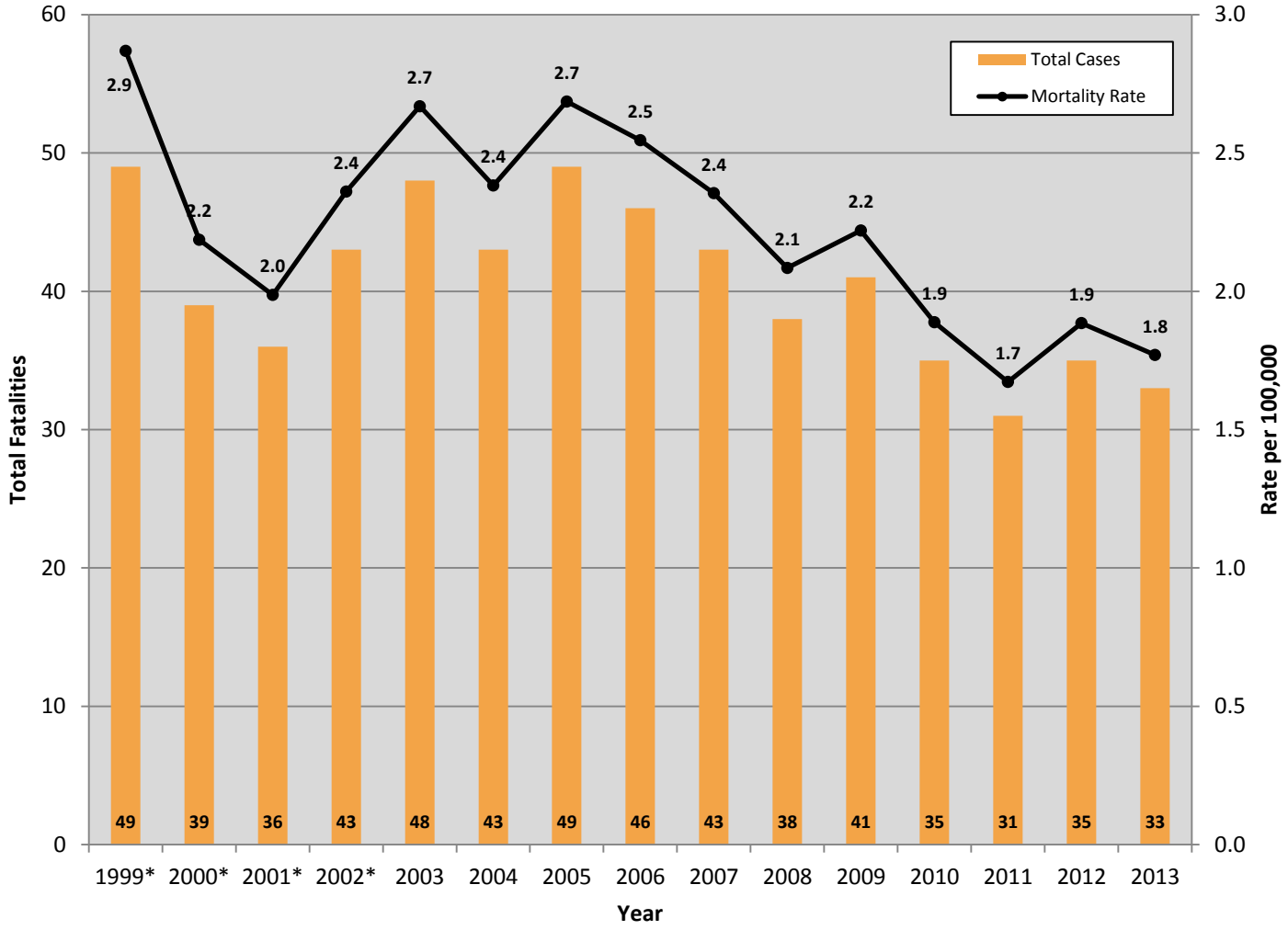
Method of Death	Autopsied	Total Cases
Asphyxia		
Choked on food/foreign object	2	**2**
Drowned	13	**18**
Hanged	1	**1**
Mechanical/Positional asphyxia	2	**2**
Other asphyxia	1	**1**
Suffocated/Smothered	13	**13**
Drug Poisoning		
Ingested and/or injected illicit, prescription, and/or other drug	7	**7**
Electrical		
Contacted electrical current	1	**1**
Environmental Exposure		
Hyperthermia	1	**1**
Fall		
Fall from any height	1	**2**
Fire		
Thermal burns and/or inhalation of combustion products	5	**5**
Traumatic Injury		
Accidental discharge of a firearm		
Handgun	1	**1**
Shotgun	1	**1**
Blunt force trauma	1	**1**
Falling object	1	**2**
Vehicular Collision		
All terrain vehicle	1	**2**
Car	5	**16**
Farm equipment	0	**1**
Mo-ped	0	**1**
Pickup truck	2	**3**
Sport utility vehicle	0	**4**
Van	2	**4**
TOTAL ACCIDENTAL CHILD DEATHS	**61**	**89**

CHILD HOMICIDE DEATHS (N=33)

The number of child homicide deaths slightly decreased in 2013 when compared to 2012. Homicides represented 12.3% of all child deaths.

- Homicides in children occurred most frequently among infants under the age of 1 year (39.4%), males (75.8%), and among blacks (60.6%).
- The most common method of death in 2013 child homicides was being beaten by assailant(s) (36.4%).

Figure 3.10 Total Number and Rate of OCME Child Homicide Deaths by Year, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports; the 1999 population data is an estimate from VDH's Center for Heath Statistics' data. Persons aged 15-17 years contained within the age group for 15-19 year olds; therefore, 60 percent of the 15-19 year old age group was added to the 0-14 year old age group to estimate the total 1999 population of <1-17 year olds .

Figure 3.11 Total Number of OCME Child Homicide Deaths by Age and Gender, 2013

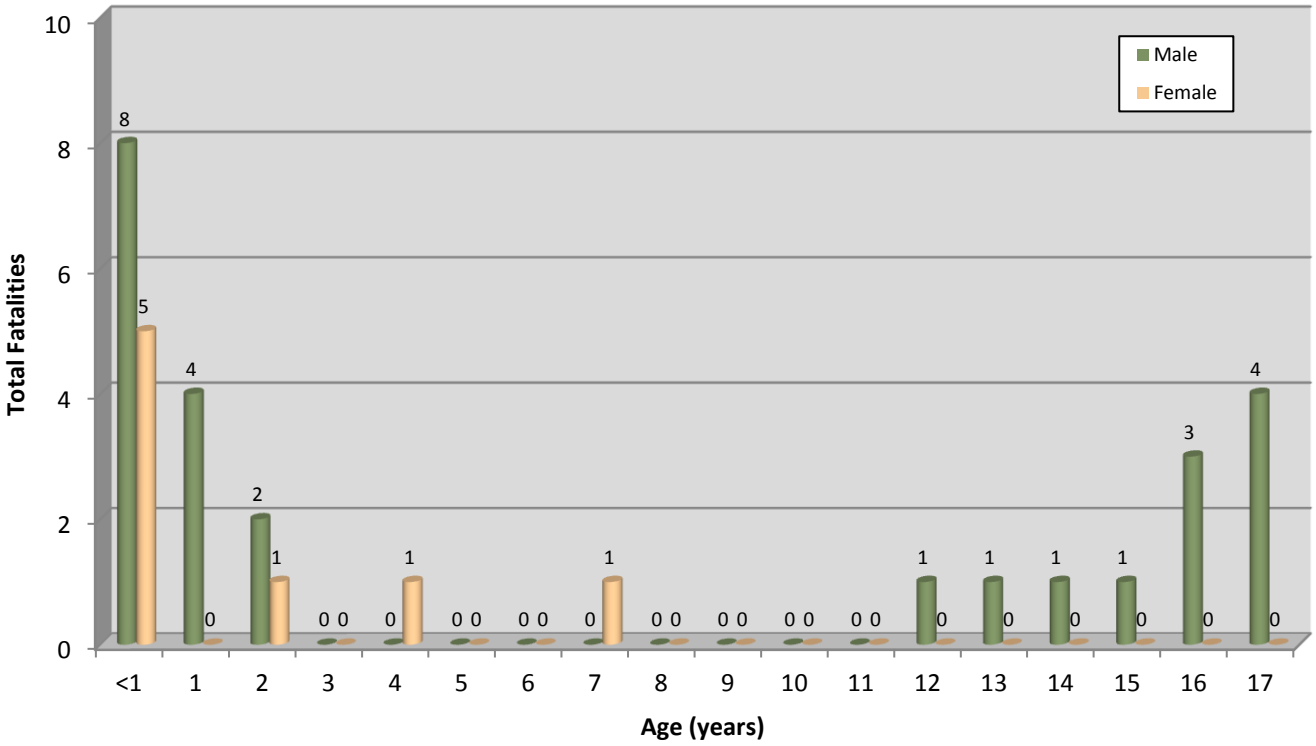


Figure 3.12 Percentage of Child Homicide Deaths by Race/Ethnicity, 2013

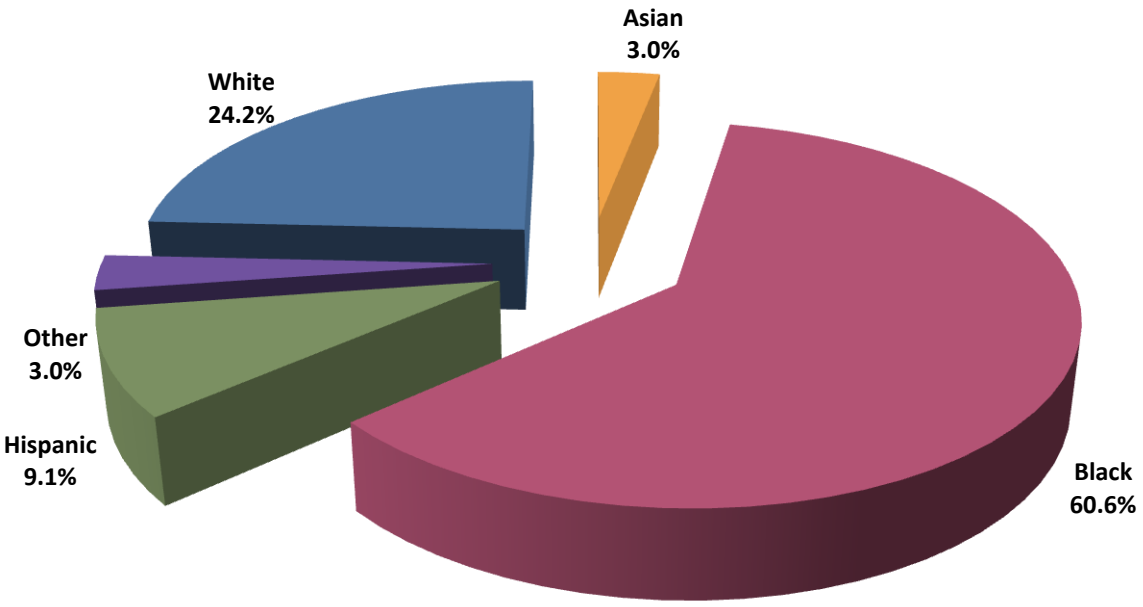


Figure 3.13 Total Number of OCME Child Homicide Deaths by Month, 2013

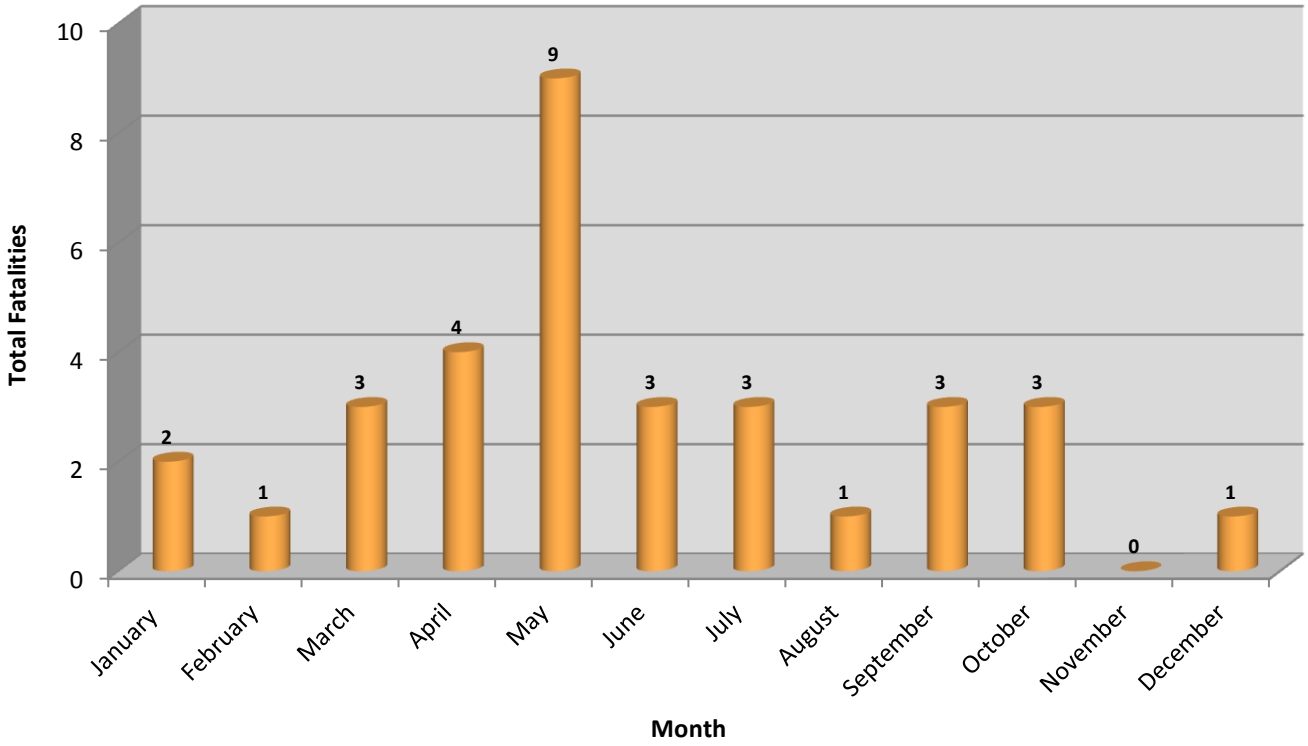


Figure 3.14 Total Number of OCME Child Homicide Deaths by Day of the Week, 2013

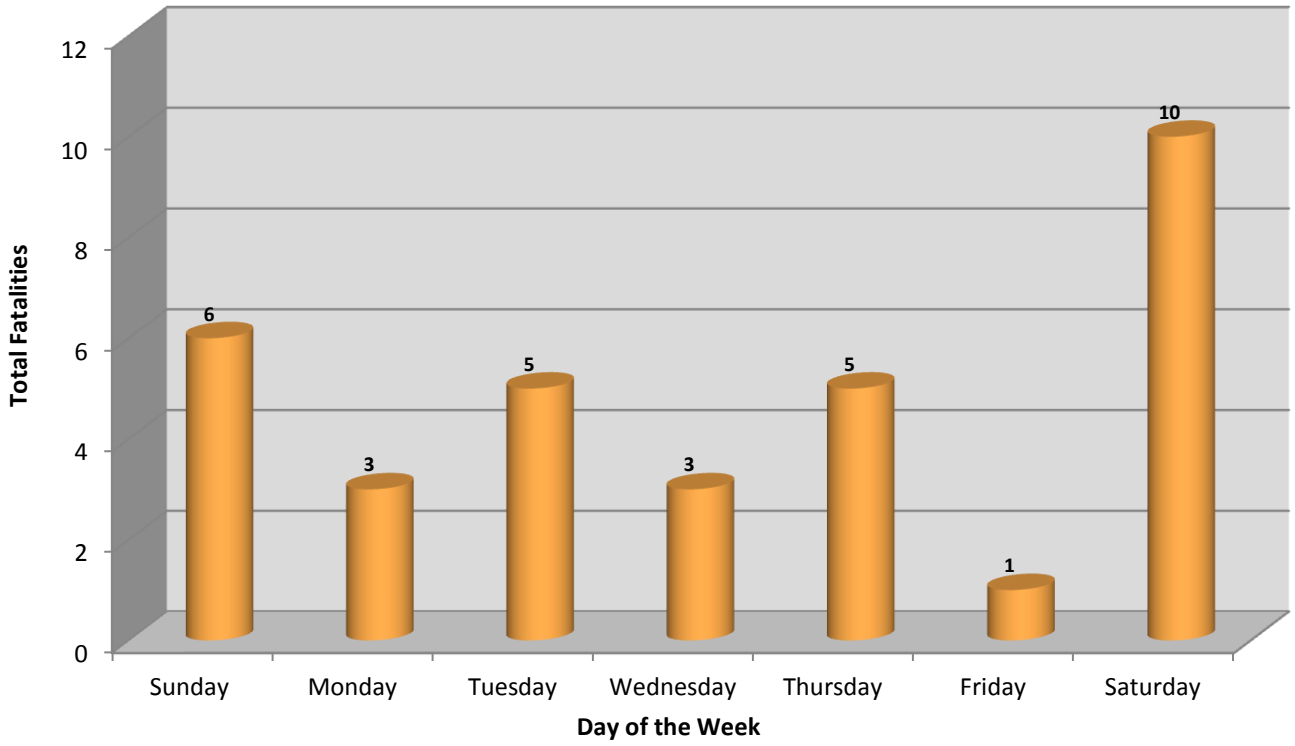


Table 3.3 Total Number of Child Homicide Deaths by Cause and Method of Death, 2013

Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	1	**1**
Strangled	1	**1**
Suffocated/Smothered	2	**2**
Environmental Exposure		
Hyperthermia	2	**2**
Fire		
Thermal burns and/or inhalation of combustion products	2	**2**
Poisoning		
Illegal drug(s)	1	**1**
Traumatic Injury		
Beaten by assailant(s)	12	**12**
Other traumatic injury	3	**3**
Shot by assailant(s) with firearm		
Handgun	8	8
Unspecified/Unknown	1	1
TOTAL CHILD HOMICIDE DEATHS	**33**	**33**

NATURAL CHILD DEATHS (N=43)

Infants comprised 37.2% of all natural deaths of children that fell under the OCME's jurisdiction.

- Pneumonia was the most common cause of natural death in children, representing 14.0% of all OCME's natural deaths in children

NOTE: Due to the change of OCME case definitions which includes the addition of the Sudden Unexpected Infant Death (SUID) classification of infant death in 2007, Sudden Infant Death Syndrome (SIDS) cases have drastically decreased

Figure 3.15 Total Number of OCME Natural Child Deaths by Age Group and Gender, 2013

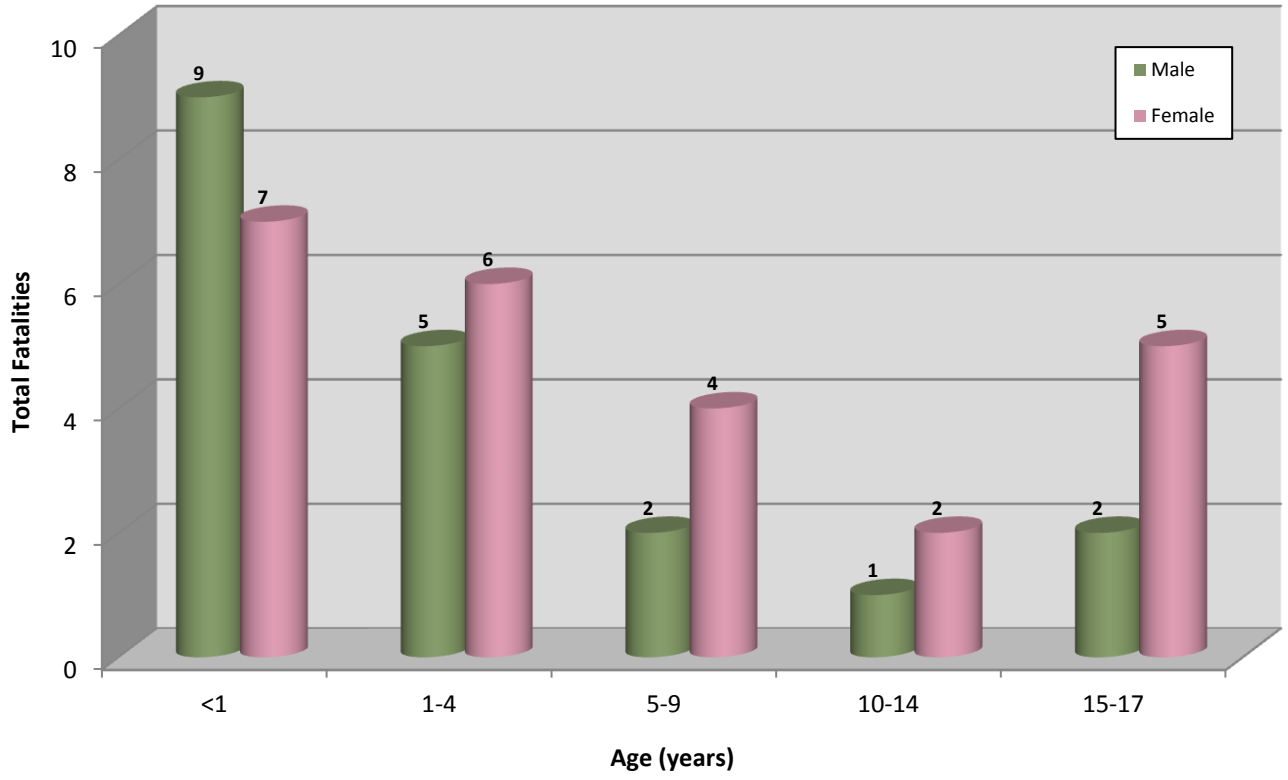


Figure 3.16 Percentage of Natural Child Deaths by Race/Ethnicity, 2013

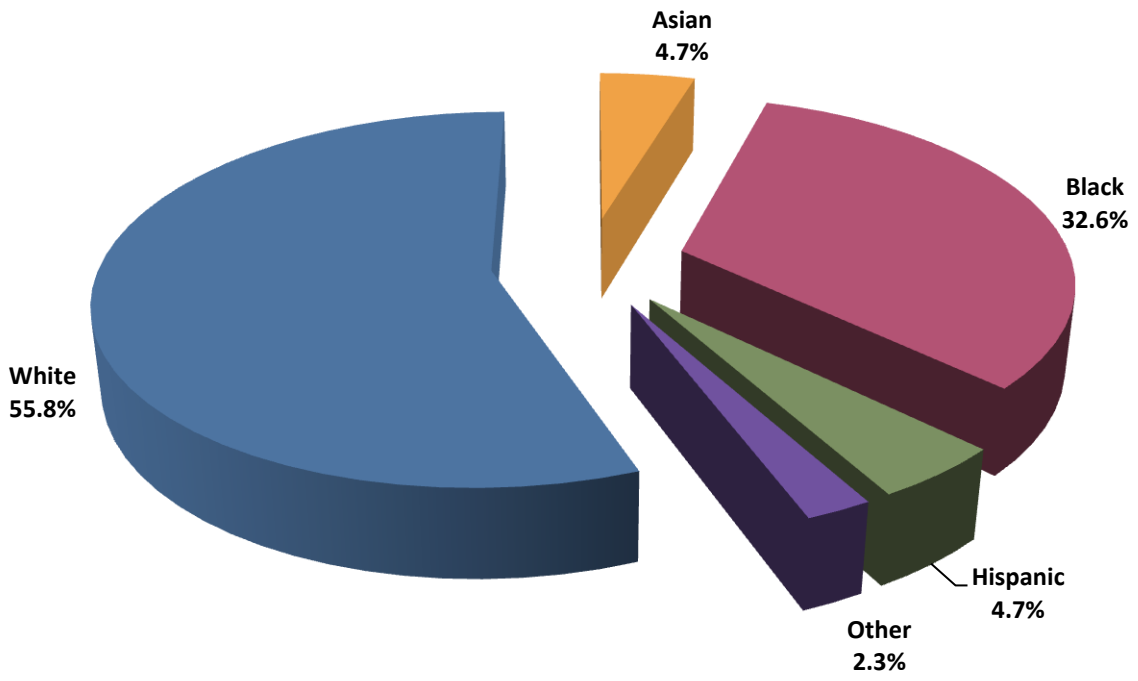


Figure 3.17 Total Number of OCME SIDS Cases by Year of Death, 2003-2013

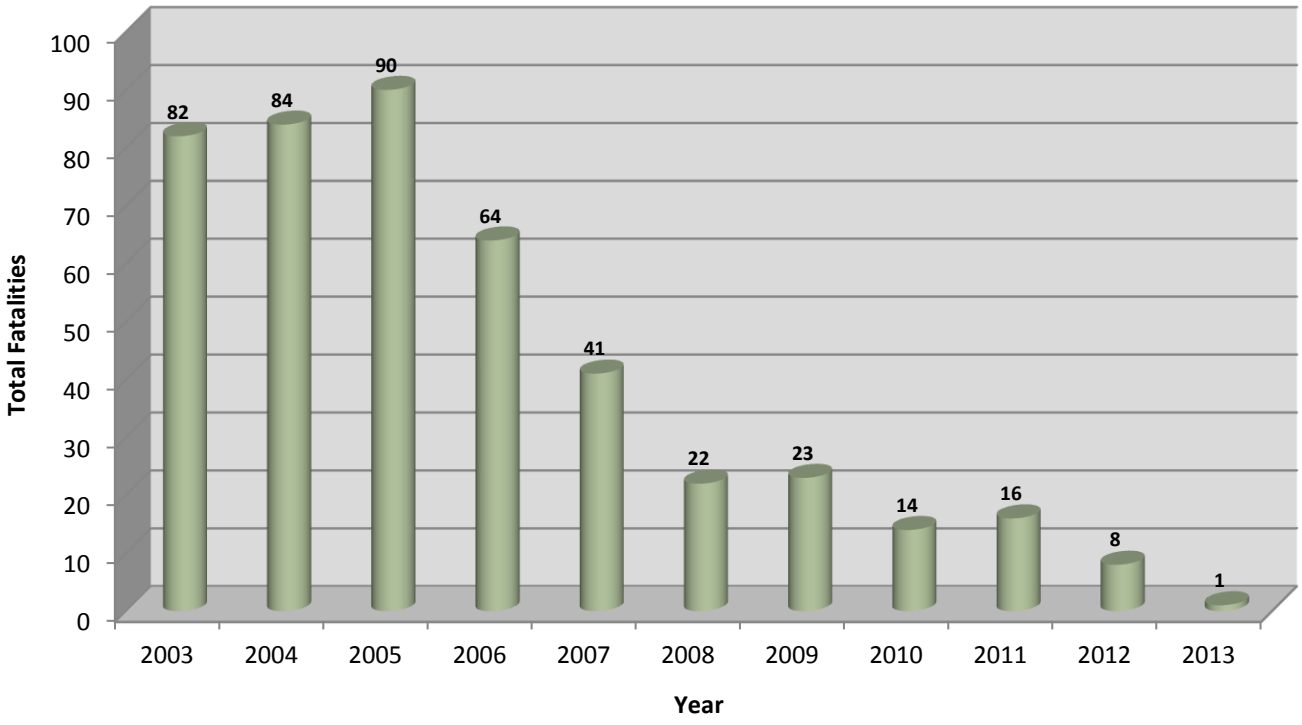


Table 3.4 Total Number of OCME Natural Child Death Cases by Cause and Method of Death, 2013

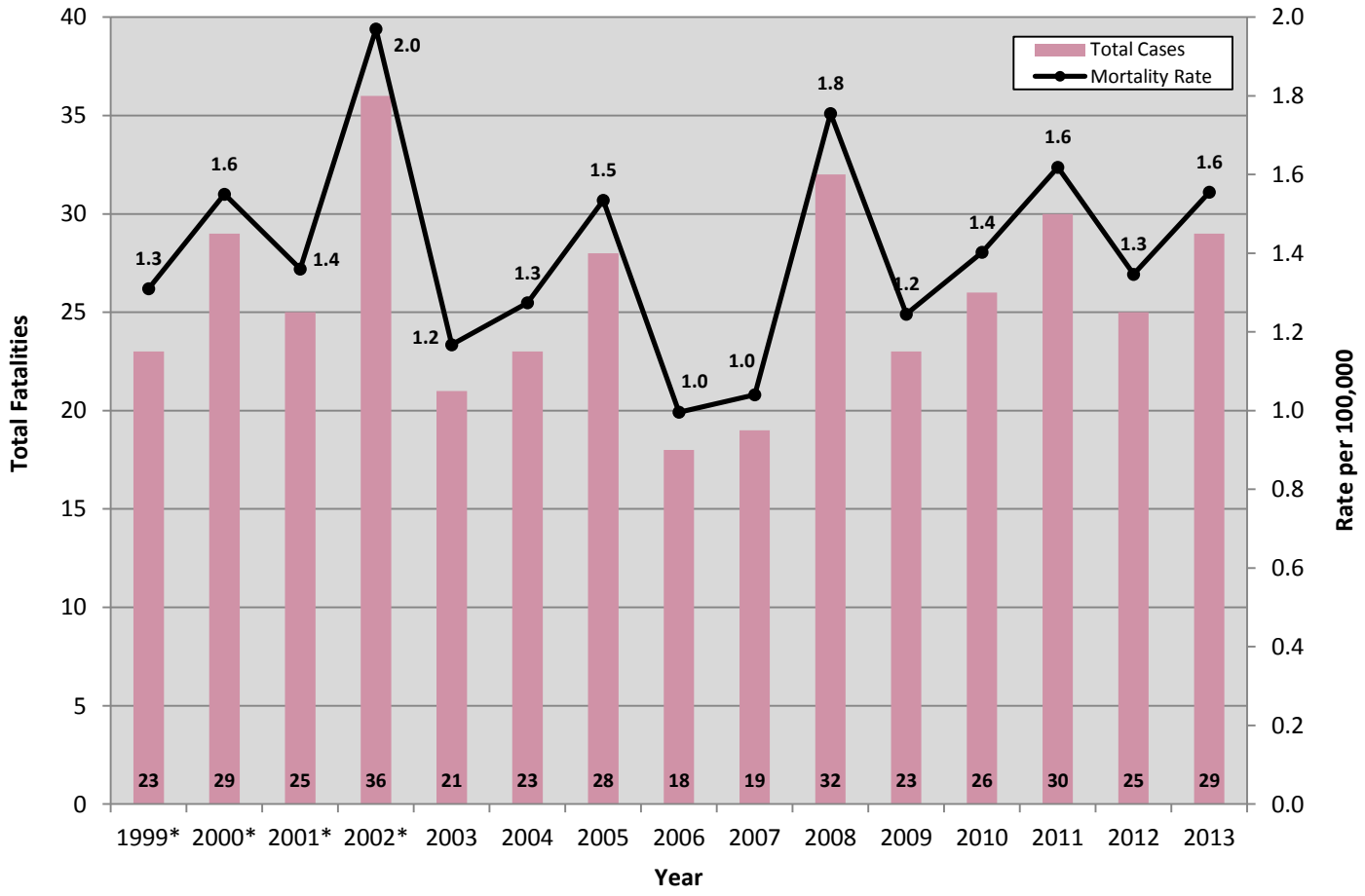
NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	1	**1**
Arrhythmogenic right ventricular dysplasia	1	**1**
Cardiac arrhythmia	2	**2**
Congenital defect	2	**2**
Other cardiac disease/disorder	2	**2**
Central Nervous System (CNS) Diseases/Disorders		
Seizure disorder	1	**1**
Other CNS disease/disorder	1	**1**
Gastrointestinal (GI) Diseases/Disorders		
GI hemorrhage	1	**1**
Other Natural Disease/Disorder		
Other natural disease/disorder	5	**5**
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	3	**3**
Other perinatal or pediatric disorder	2	**2**
Sudden Infant Death Syndrome (SIDS)	1	**1**
Pulmonary Diseases/Disorders		
Asthma	3	**3**
Emboli	1	**1**
Other pulmonary diseases/disorders	3	**3**
Pneumonia	6	**6**
Systemic Diseases/Disorders		
Other infectious disease	4	**4**
Other systemic diseases/disorders	2	**2**
Sepsis	2	**2**
TOTAL NATURAL CHILD DEATHS	**43**	**43**

CHILD SUICIDE DEATHS (N=29)

The number of child suicide deaths in 2013 slightly increased from 2012; however variation among small totals is to be expected.

- Child suicides are very similar to adult suicides as they occur more frequently in males (72.5%) and whites (86.2%)
- The most common methods of child suicides were hangings (53.6%) and gunshot wounds (24.1%)

Figure 3.18 Total Number and Rate of OCME Child Suicide Deaths by Year, 1999-2013



*Rate calculations for years 2003-2011 were recalculated updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports; the 1999 population data is an estimate from VDH's Center for Heath 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 year old age group was added to the 0-14 year old age group to estimate the total 1999 population of <1-17 year olds .

Figure 3.19 Total Number of OCME Child Suicide Deaths by Age and Gender, 2013

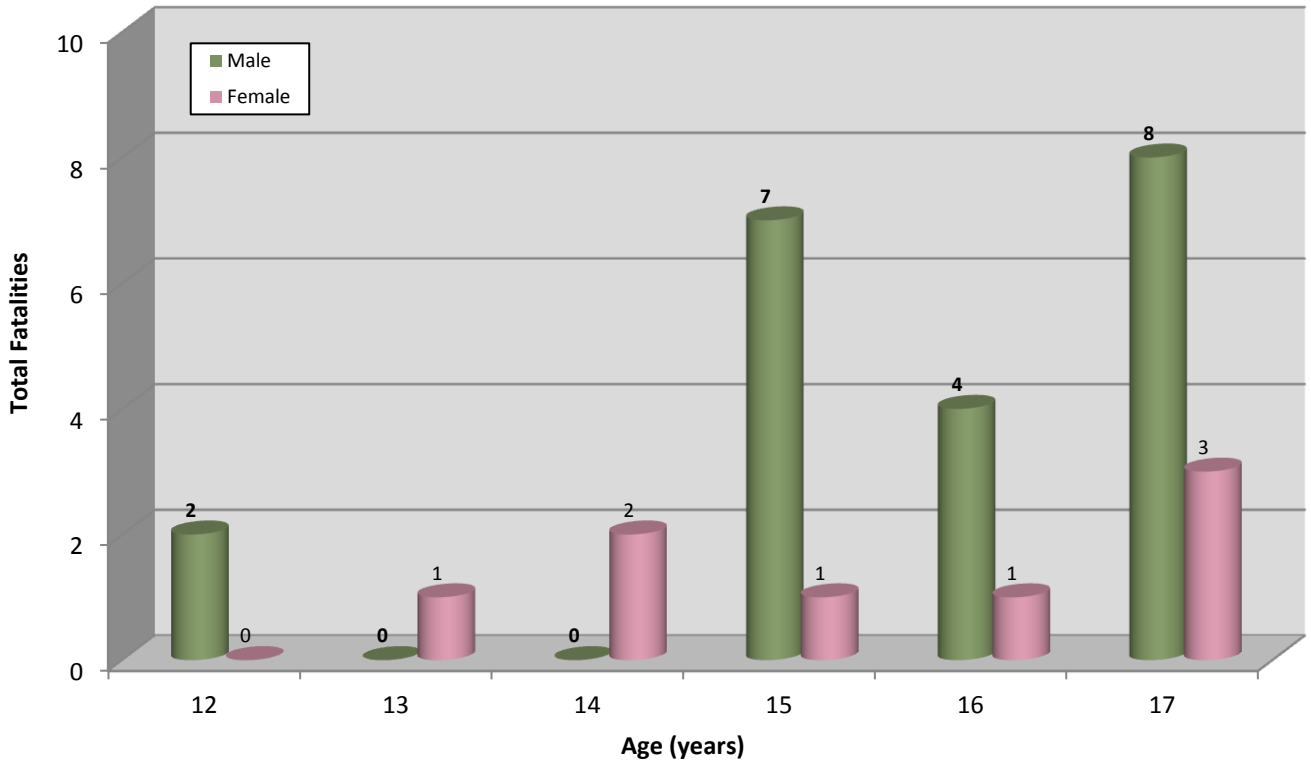


Figure 3.20 Percentage of OCME Child Suicide Deaths by Race/Ethnicity, 2013

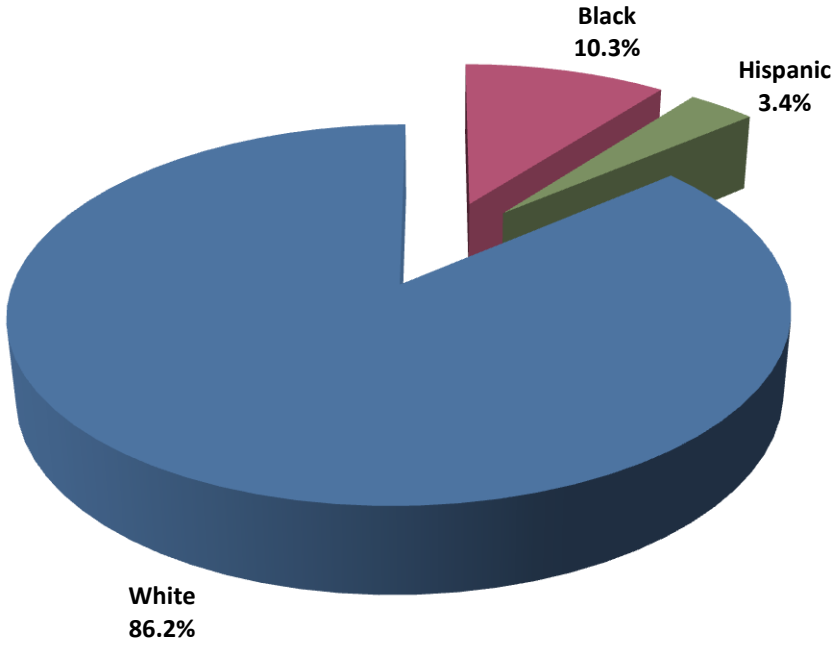


Figure 3.21 Total Number of OCME Child Suicide Deaths by Month, 2013

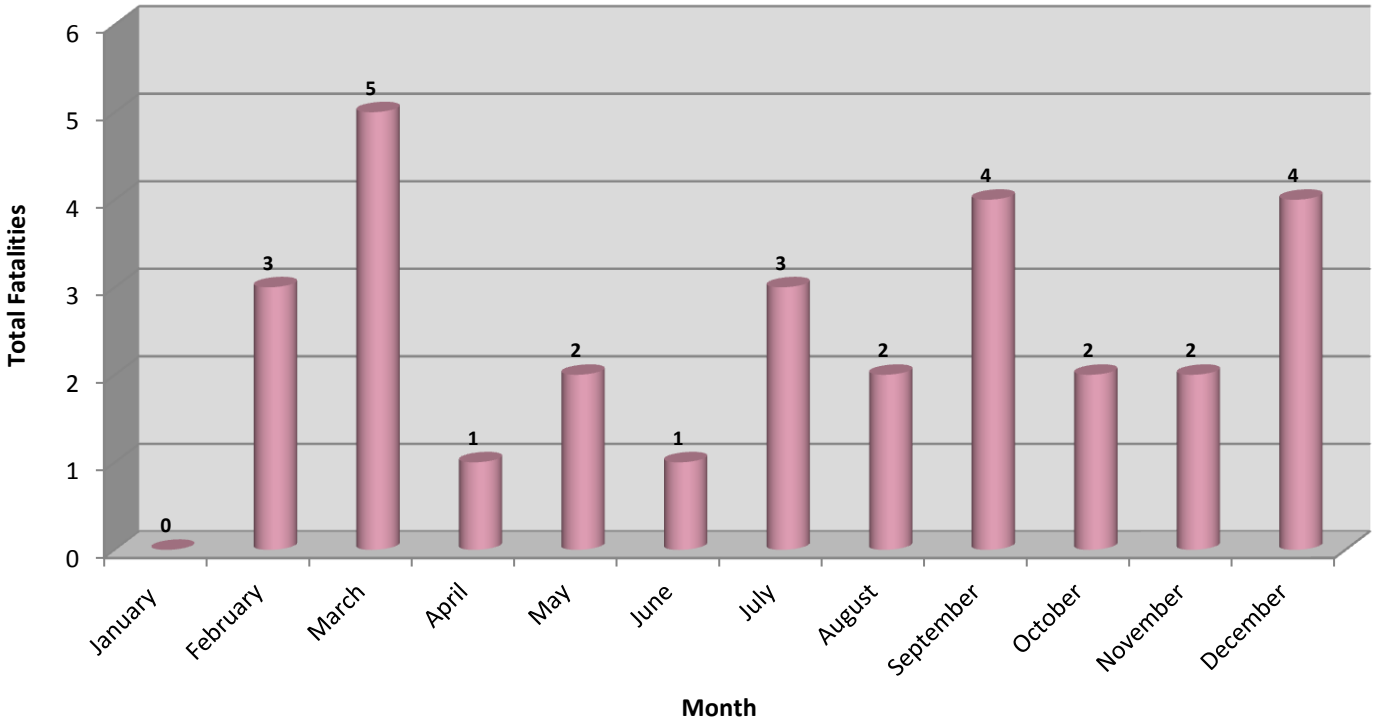


Figure 3.22 Total Number of OCME Child Suicide Deaths by Day of the Week, 2013

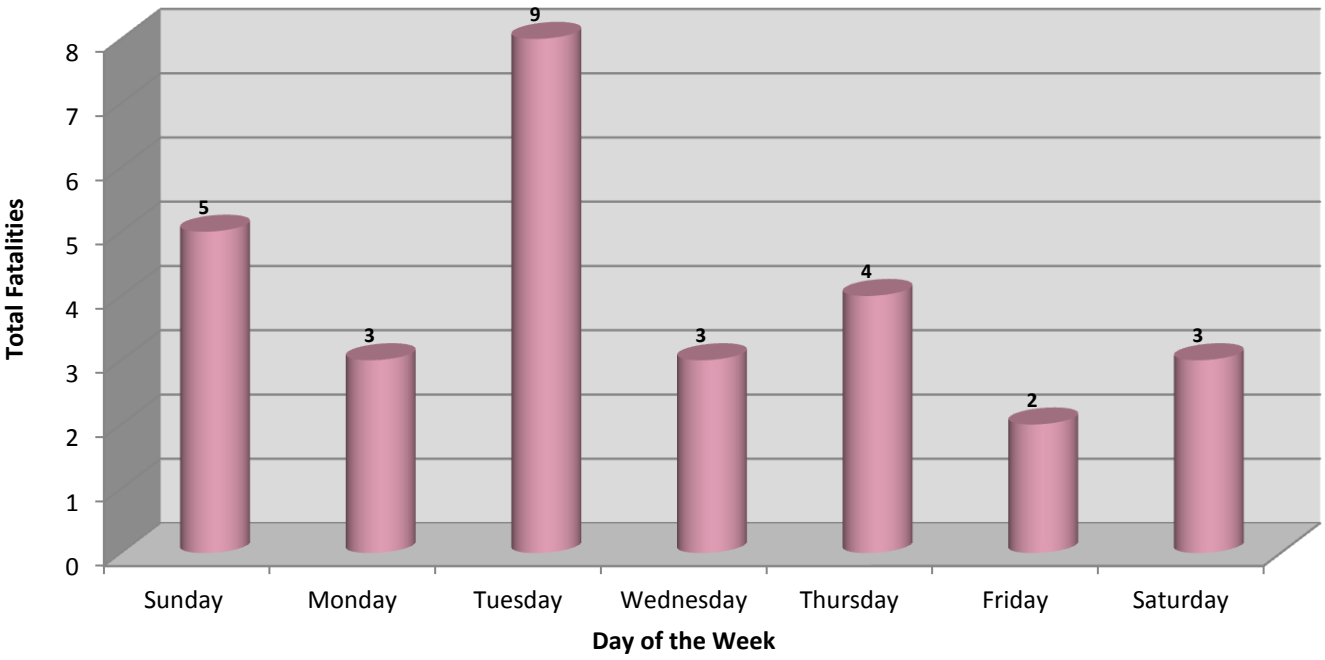


Table 3.5 Total Number of Child Suicide Deaths by Cause and Method of Death, 2013

Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	1	**1**
Hanged	10	**15**
Drug Poisoning		
Ingested and/or injected illegal, prescription, and/or other type of drug	1	**2**
Jump/Fall		
Jumped/Fell from any height	0	**1**
Motor Vehicle Collision		
Car	2	**2**
Unspecified/Unknown	1	**1**
Traumatic Injury		
Gunshot Wound		
Handgun	6	6
Rifle	1	1
TOTAL CHILD SUICIDE DEATHS	**22**	**29**

UNDETERMINED CHILD DEATHS (N=75)

A total of 75 undetermined deaths of children occurred in 2013, representing 27.9% of all child deaths.

- Infants accounted for 92.0% of undetermined deaths
- Of the 69 undetermined deaths of children under 1 year of age, 73.9% had a diagnosis of Sudden Unexpected Infant Death (SUID)

Figure 3.23 Total Number and Rate of OCME Undetermined Child Deaths by Year, 2006-2013

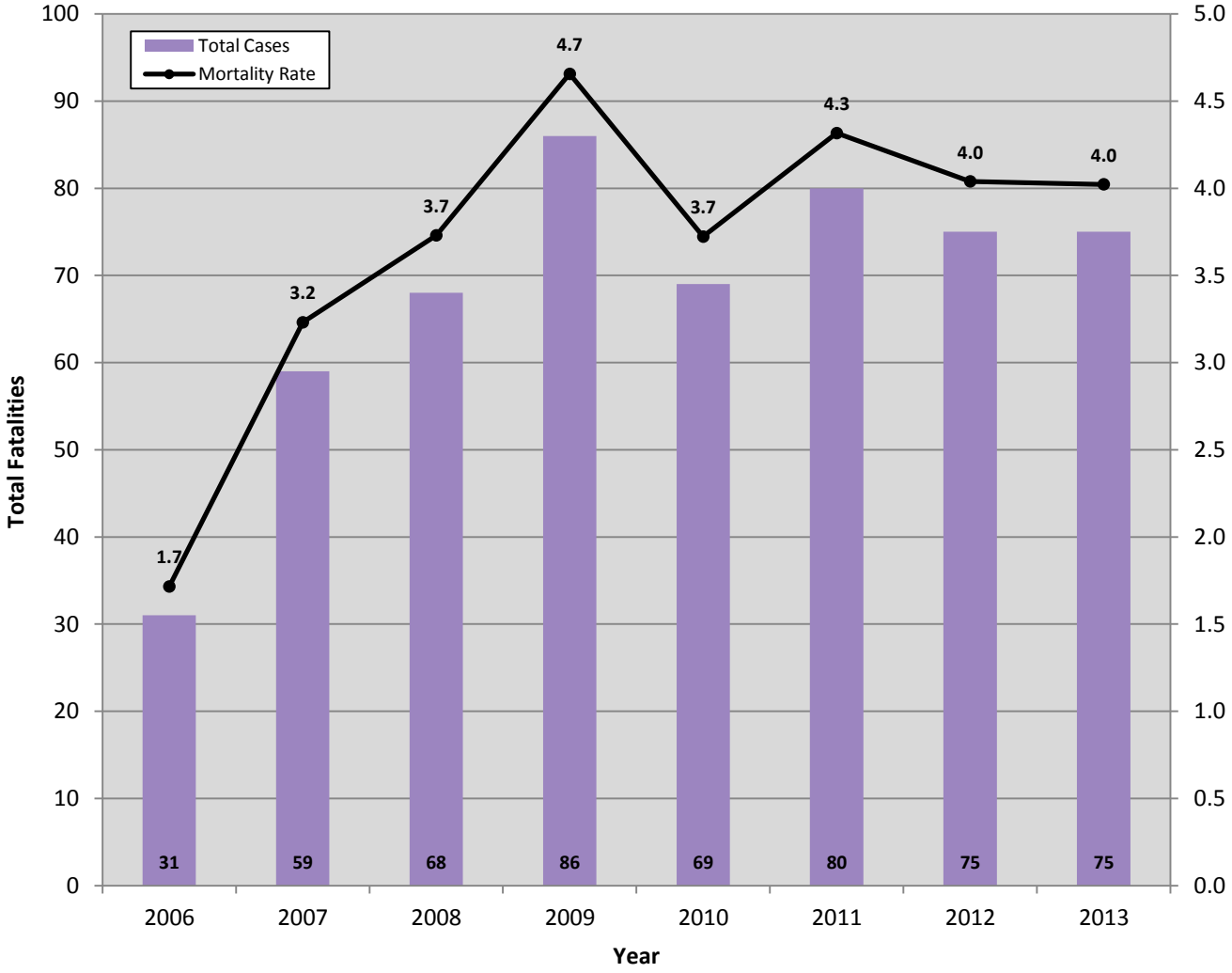


Figure 3.24 Total Number of OCME Undetermined Child Deaths by Age and Gender, 2013

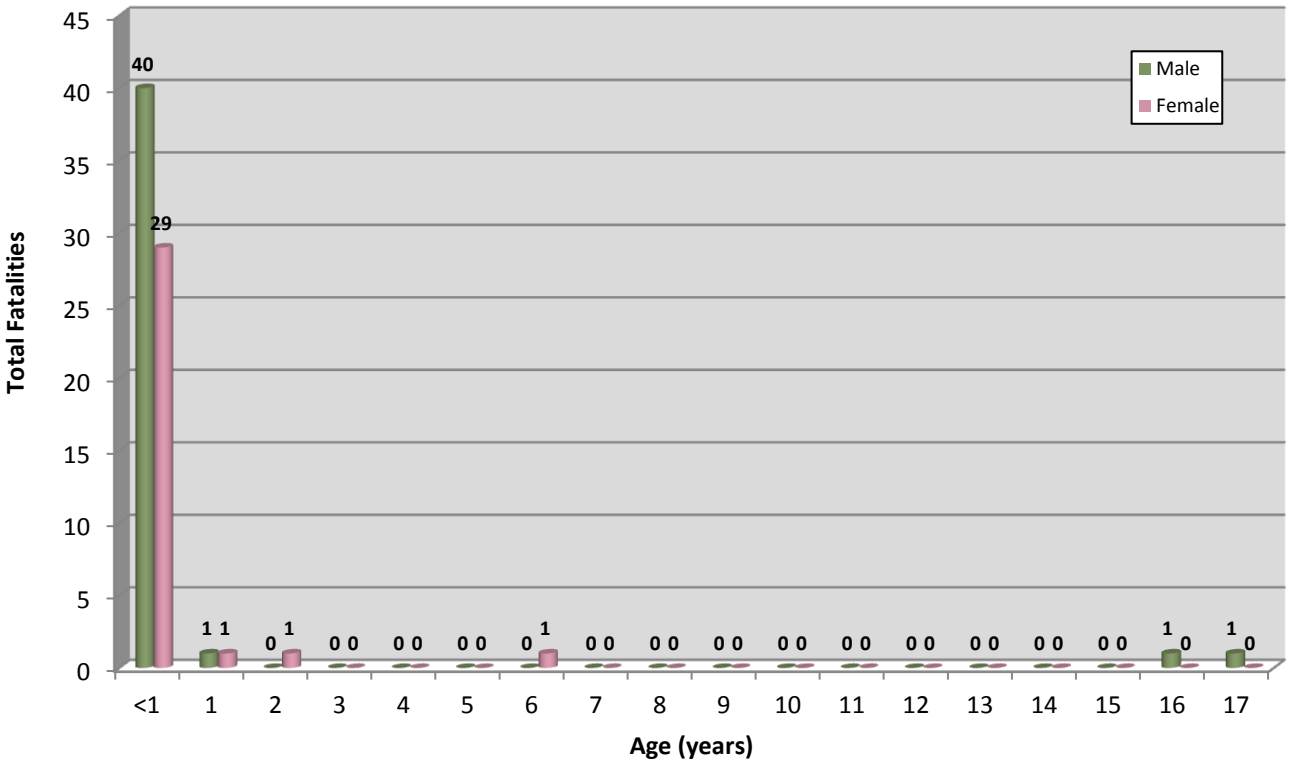


Figure 3.25 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2013

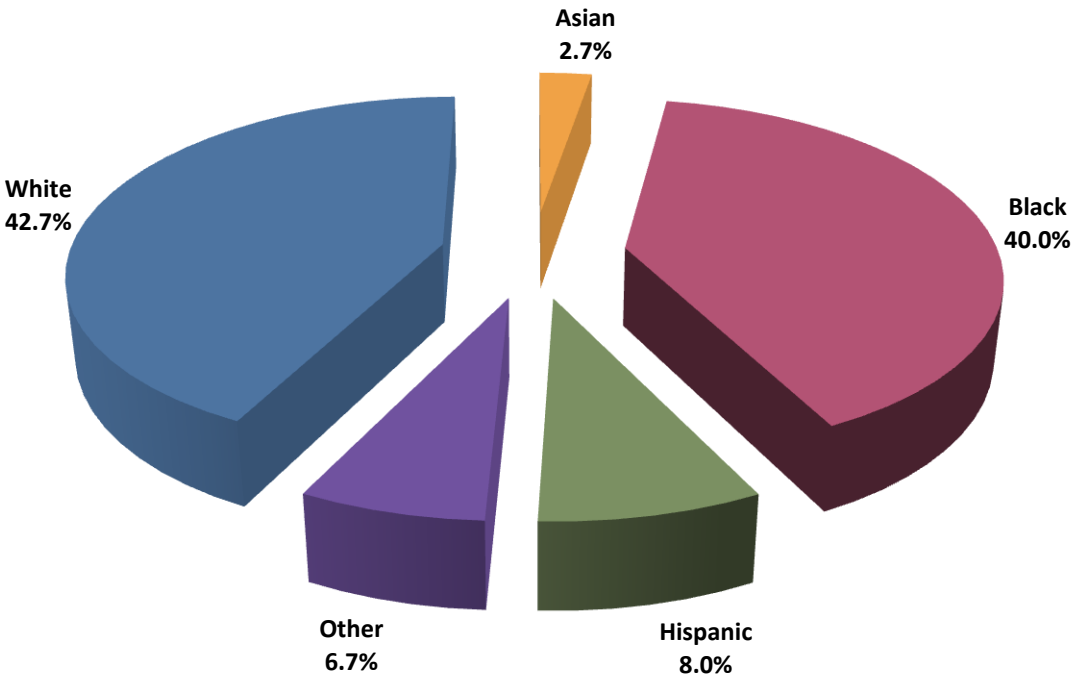


Table 3.6 Total Number of Undetermined Child Deaths by Cause and Method of Death, 2013

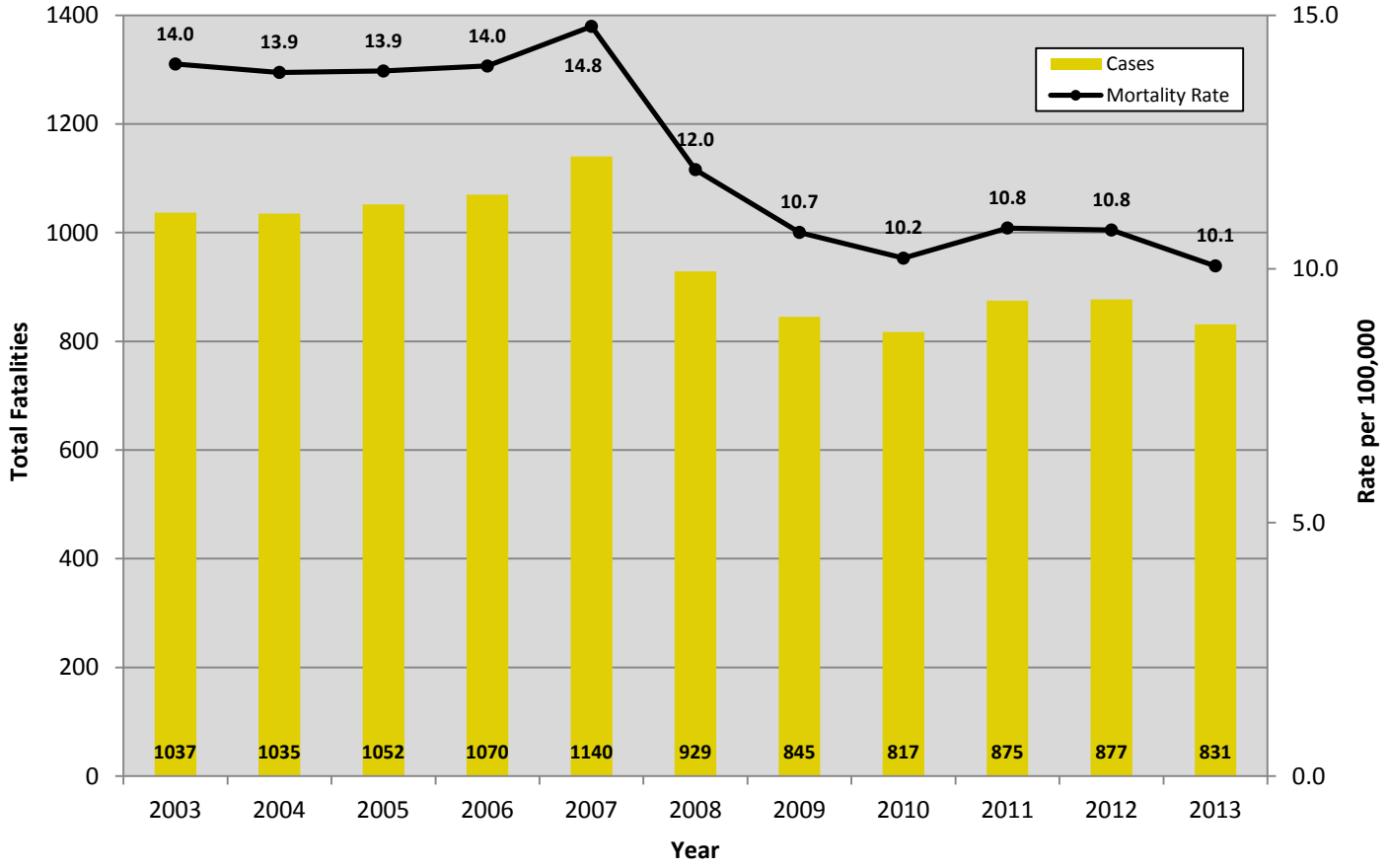
Determined Cause and Method of Death	Autopsied	Total Cases
Asphyxia		
Drowned	1	**1**
Drug Poisoning		
Ingested and/or injected illicit, prescription, and/or other drug	2	2
Traumatic Injury		
Gunshot wound		
Handgun	1	**1**
Subtotal for Determined Cause and Method of Death	4	4
Undetermined Manner and Cause of Death		
Sudden Unexpected Infant Death (SUID)	52	**52**
Other undetermined	3	**3**
Undetermined cause after autopsy and/or investigation	16	**16**
Subtotal for Undetermined Manner and Cause of Death	71	**71**
TOTAL UNDETERMINED CHILD DEATHS	**75**	**75**

SECTION 4: MOTOR VEHICLE FATALITIES (N=831)

The OCME investigated 831 motor vehicle collision related deaths in 2013. This is a significant decrease from 2012 (5.2%)

- The vast majority of cases were accidents (96.1%) and involved males (72.6%)
- In 26.2% (n=218) of all motor vehicle deaths, the decedent had a blood alcohol content greater than or equal to 0.08% W/V; of these 218 decedents, 73.8% were drivers
- Persons aged 25-34 years old had slightly more deaths (17.3%) in motor vehicle incidents than any other age group, but they were closely followed by the 25-54 age group (17.1%)
- Twenty-two children under the age of 15 years died in motor vehicle-related incidents

Figure 4.1 Total Number and Rate of OCME Motor Vehicle Deaths by Year, 2003-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); Stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports.

Figure 4.2 Percentage of OCME Motor Vehicle Deaths by Manner, 2013

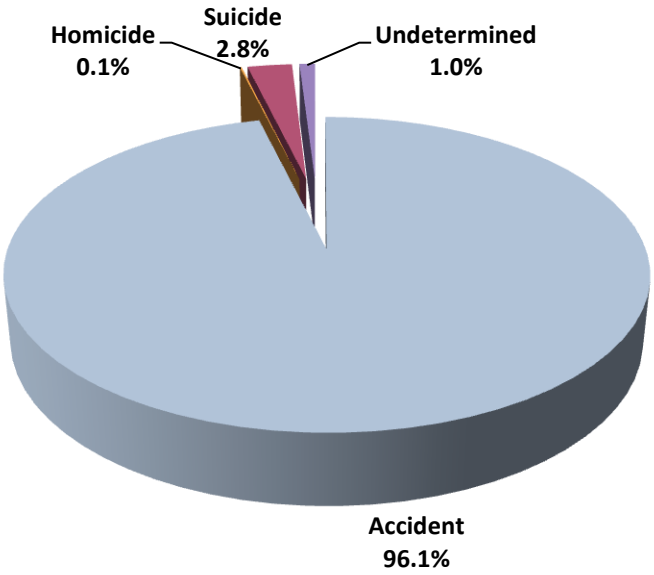
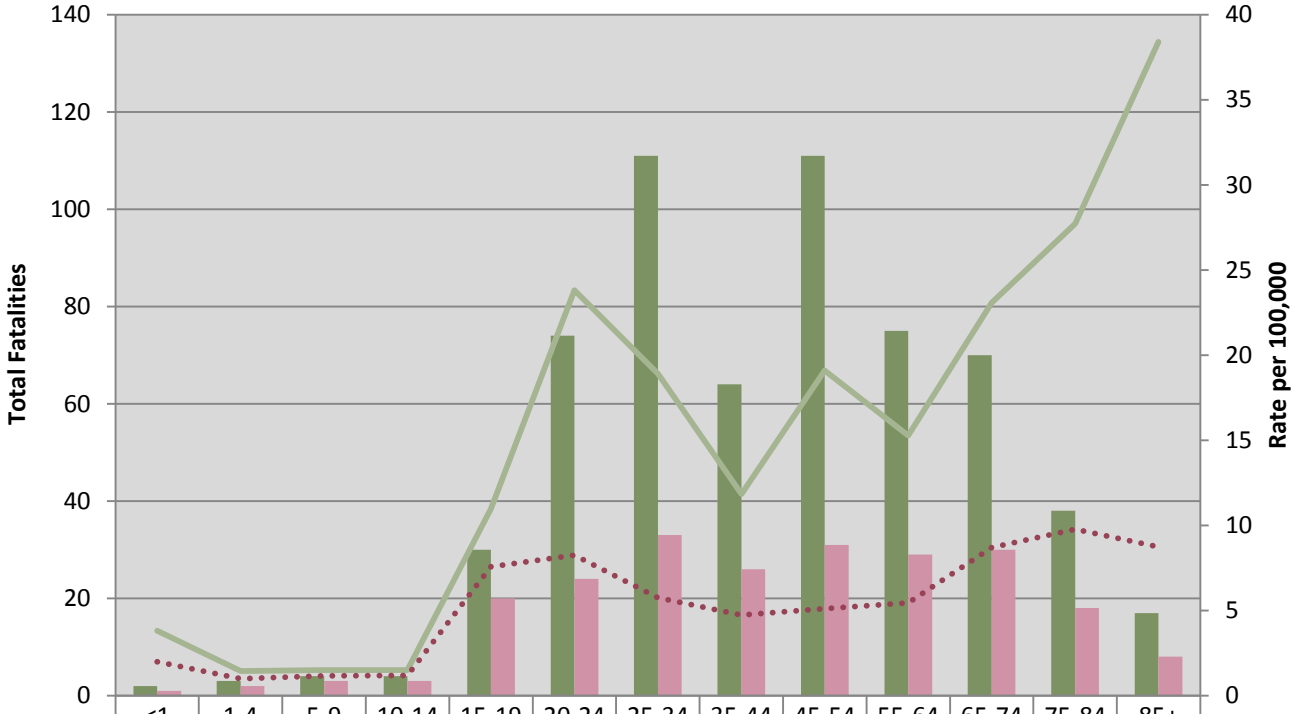


Figure 4.3 Total Number and Rate of OCME Motor Vehicle Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	2	3	4	4	30	74	111	64	111	75	70	38	17
Female	1	2	3	3	20	24	33	26	31	29	30	18	8
Male Rate	3.8	1.4	1.5	1.5	11.0	23.8	18.9	11.8	19.1	15.3	23.1	27.7	38.4
Female Rate	2.0	1.0	1.2	1.2	7.6	8.3	5.8	4.7	5.1	5.5	8.7	9.8	8.7

Age Group (years)

Figure 4.4 Percentage of OCME Motor Vehicle Deaths by Race/Ethnicity, 2013

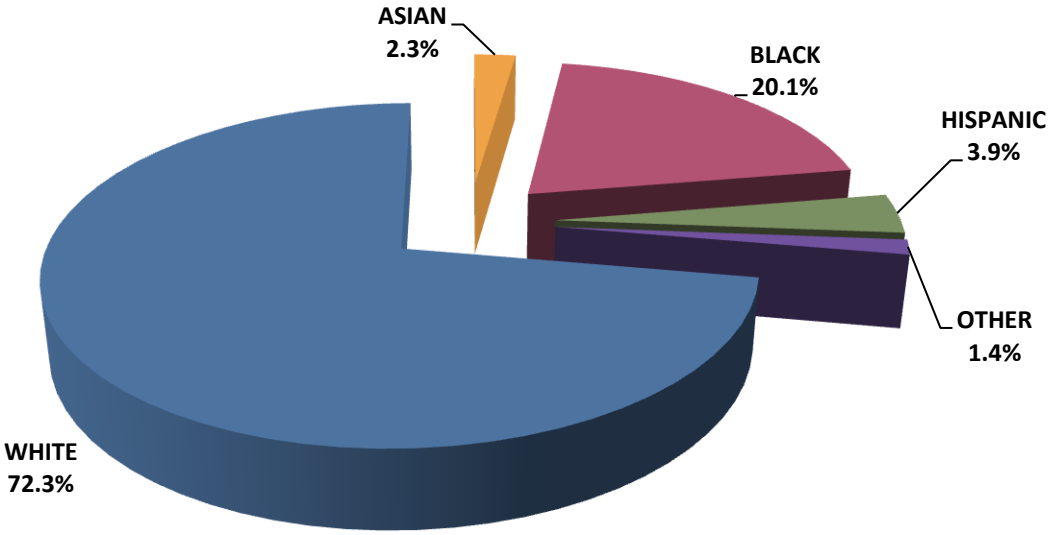
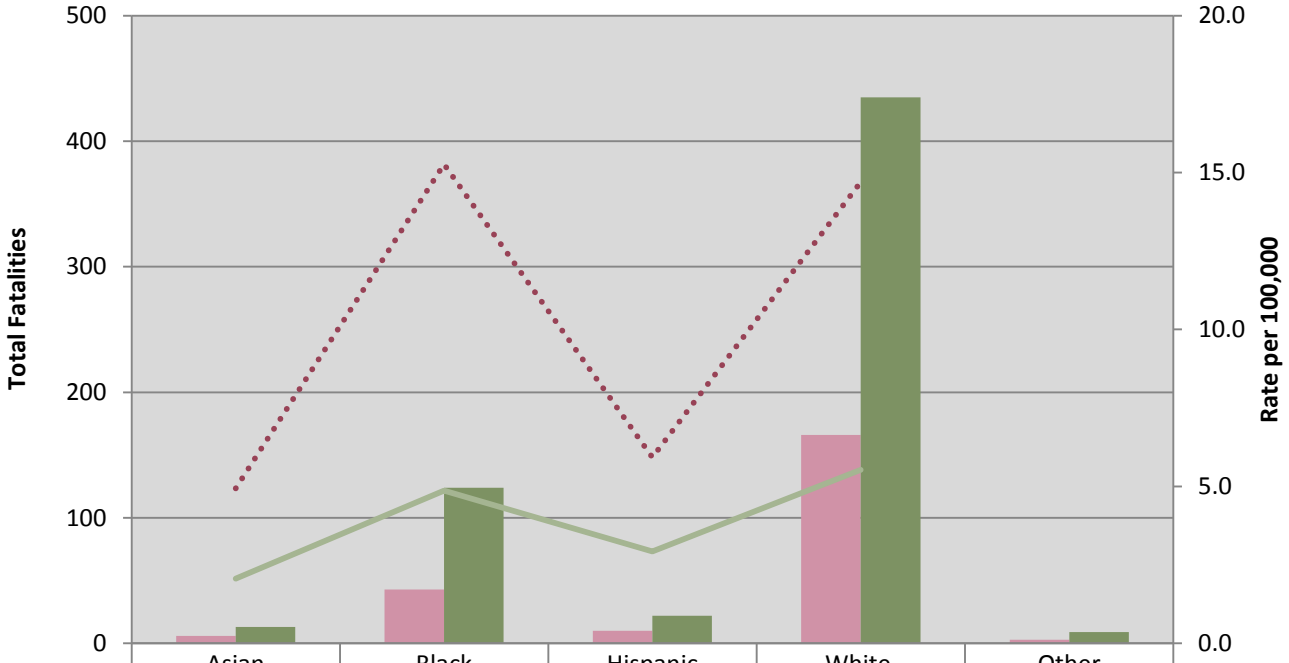


Figure 4.5 Number and Rate of OCME Motor Vehicle Deaths by Race/Ethnicity and Gender, 2013



	Asian	Black	Hispanic	White	Other
Female	6	43	10	166	3
Male	13	124	22	435	9
Female Rate	2.1	4.9	2.9	5.5	*
Male Rate	4.9	15.3	5.9	14.7	*

Race/Ethnicity

* Not able to calculate rate

Figure 4.6 Percentage of OCME Motor Vehicle Deaths by Ethanol Amount, 2013

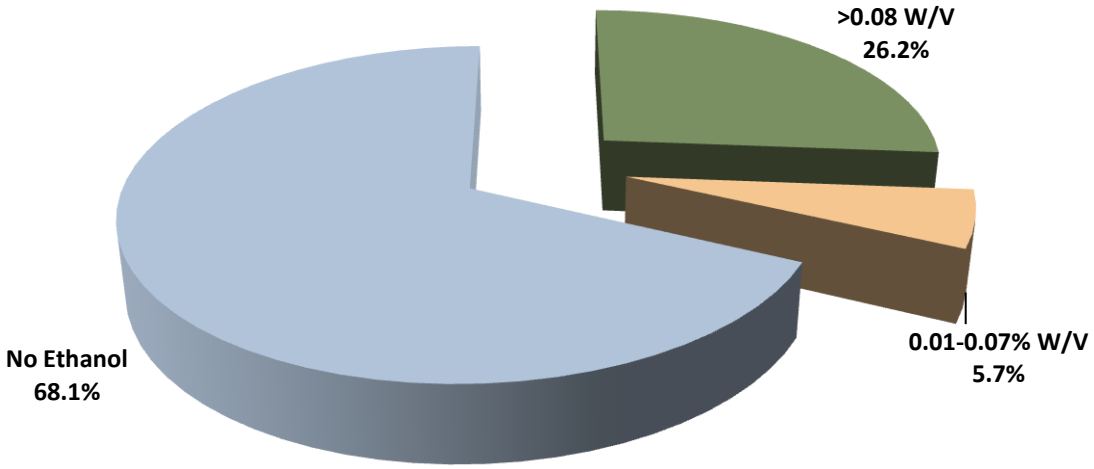


Figure 4.7 Number of OCME Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount, 2013

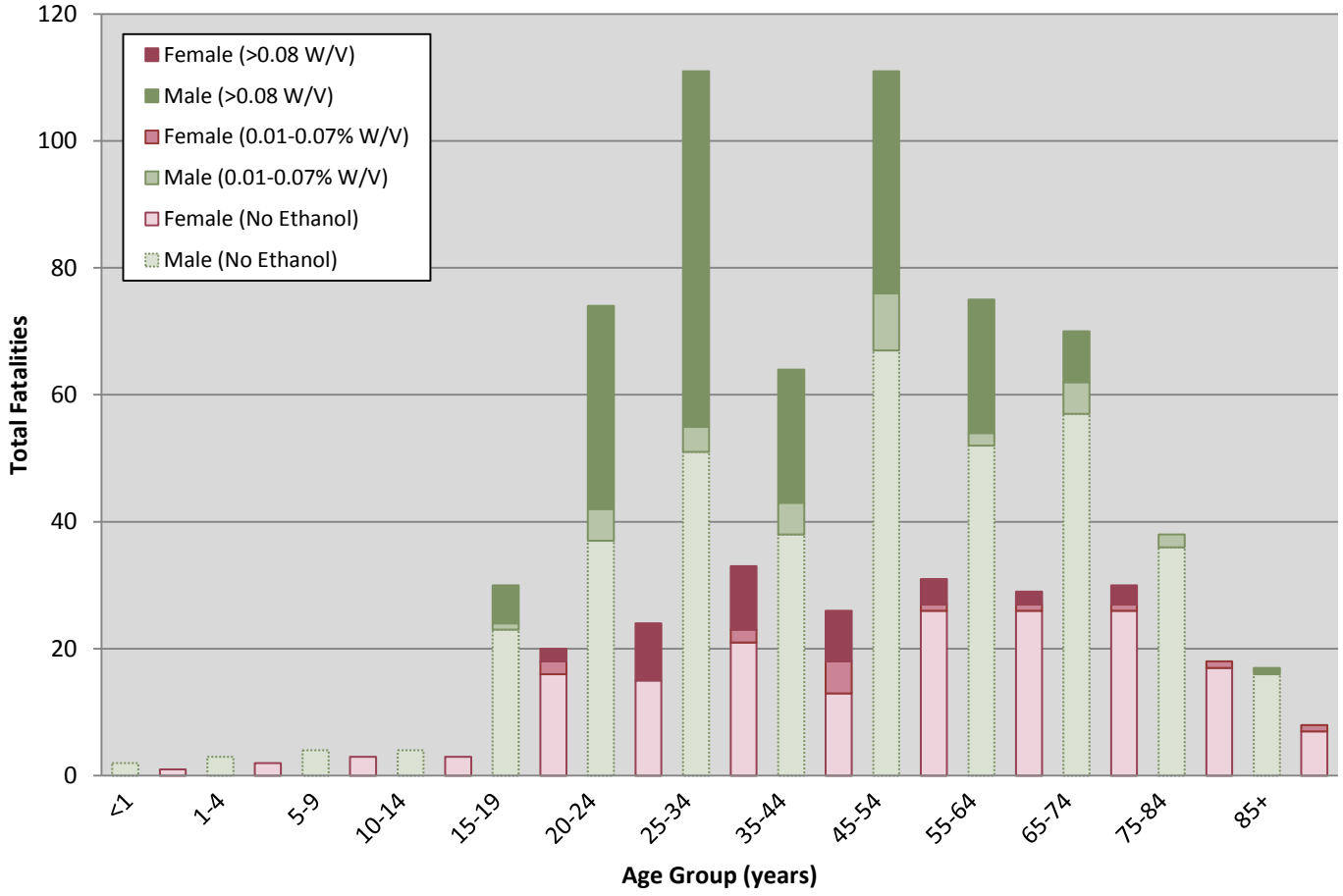


Figure 4.8 Number of OCME Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity, 2013

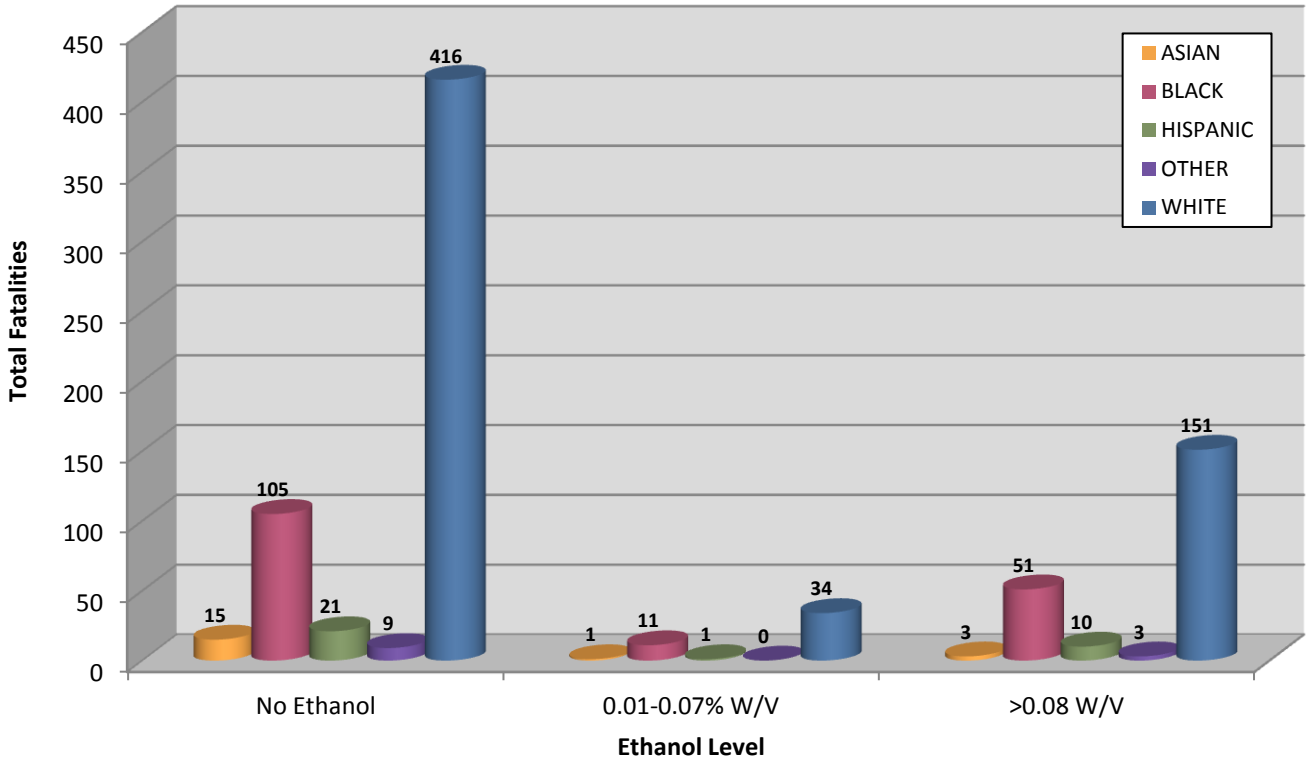


Table 4.1 Total Number of OCME Motor Vehicle Deaths by Age Group and Position during Collision, 2013

Age Group (years)	Driver	Passenger Cargo	Passenger Front	Passenger Other	Passenger Rear	Pedestrian	Unknown	Total
<1	0	2	0	1	0	0	0	**3**
1-4	0	1	0	0	2	2	0	**5**
5-9	1	1	0	1	3	1	0	**7**
10-14	0	0	3	0	2	2	0	**7**
15-19	27	0	10	1	5	7	0	**50**
20-24	70	2	15	2	5	4	0	**98**
25-34	104	2	16	2	5	13	2	**144**
35-44	64	2	7	1	2	11	3	**90**
45-54	94	2	8	3	8	23	4	**142**
55-64	68	1	6	1	1	23	4	**104**
65-74	70	1	11	0	3	14	1	**100**
75-84	36	0	8	0	1	11	0	**56**
85+	14	0	7	0	2	2	0	**25**
TOTAL	**548**	**14**	**91**	**12**	**39**	**113**	**14**	**831**

Figure 4.9 Total Number of OCME Motor Vehicle Deaths by Position during Collision and Ethanol Level, 2013

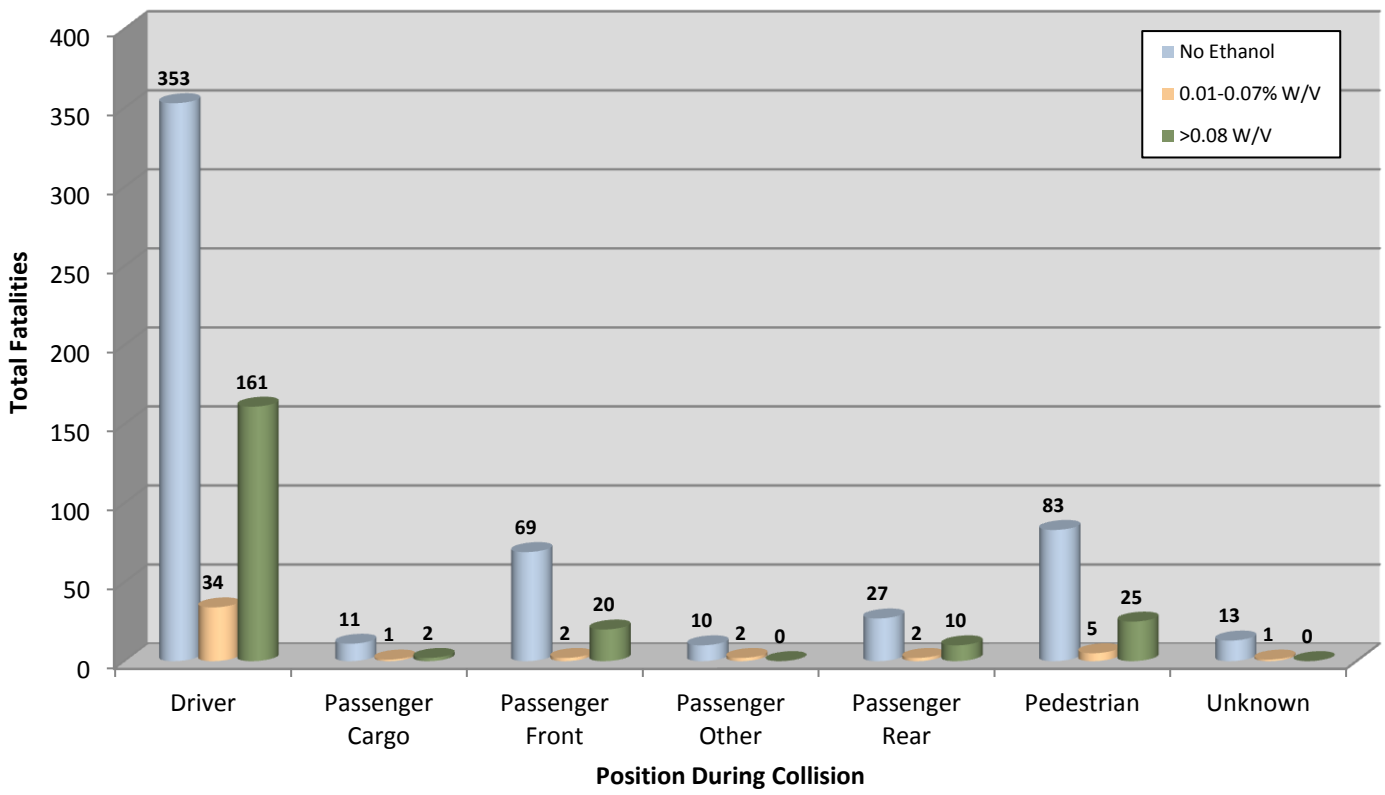


Table 4.2 Total Number of OCME Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level, 2013

Position	Vehicle Type	No Ethanol	0.01-0.07% W/V	>0.08 W/V	Total
Driver	Aircraft	6	0	0	**6**
	All Terrain Vehicle	3	1	1	**5**
	Bicycle	5	1	1	**7**
	Car	165	11	83	**259**
	Construction Equipment	0	0	1	**1**
	Farm Equipment	3	0	1	**4**
	Jet Ski	2	0	0	**2**
	Lawnmower	1	0	0	**1**
	Mo-ped	11	1	2	**14**

Position	Vehicle Type	No Ethanol	0.01-0.07% W/V	>0.08 W/V	Total
	Motorcycle	43	8	14	**65**
	Pickup Truck	36	4	25	**65**
	Sport Utility Vehicle	43	7	19	**69**
	Tractor Trailer	15	0	0	**15**
	Truck (other)	7	0	4	**11**
	Unknown	3	0	3	**6**
	Van	10	1	7	**18**
	Subtotal of Driver	**353**	**34**	**161**	**548**
Passenger Cargo	Car	2	1	2	**5**
	Farm Equipment	1	0	0	**1**
	Motorcycle	1	0	0	**1**
	Pickup Truck	1	0	0	**1**
	Sport Utility Vehicle	2	0	0	**2**
	Tractor Trailer	1	0	0	**1**
	Train	1	0	0	**1**
	Truck (other)	1	0	0	**1**
	Van	1	0	0	**1**
	Subtotal of Passenger Cargo	**11**	**1**	**2**	**14**
Passenger Front	Aircraft	1	0	0	**1**
	Car	52	1	12	**65**
	Pickup Truck	9	0	0	**9**
	Sport Utility Vehicle	5	0	8	**13**
	Van	2	1	0	**3**
	Subtotal of Passenger Front	**69**	**2**	**20**	**91**
Passenger Other	All Terrain Vehicle	1	0	0	**1**
	Boat	1	0	0	**1**
	Bus	1	0	0	**1**
	Car	4	0	0	**4**
	Motorcycle	2	1	0	**3**
	Sport Utility Vehicle	0	1	0	**1**
	Van	1	0	0	**1**
	Subtotal of Passenger Other	**10**	**2**	**0**	**12**

Position	Vehicle Type	No Ethanol	0.01-0.07% W/V	>0.08 W/V	Total
Passenger Rear	Car	18	1	7	**26**
	Motorcycle	1	0	1	**2**
	Pickup Truck	1	0	0	**1**
	Sport Utility Vehicle	4	0	2	**6**
	Van	3	1	0	**4**
	Subtotal of Passenger Rear	**27**	**2**	**10**	**39**
Pedestrian	Bicycle	0	0	1	**1**
	Bus	1	0	0	**1**
	Car	26	2	9	**37**
	Construction Equipment	3	0	0	**3**
	Dump Truck	1	0	0	**1**
	Farm Equipment	1	0	1	**2**
	Fire Truck	1	0	0	**1**
	Pickup Truck	13	0	2	**15**
	Sport Utility Vehicle	10	0	3	**13**
	Tractor Trailer	5	0	0	**5**
	Train	7	2	4	**13**
	Truck (other)	0	0	1	**1**
	Unknown	12	0	4	**16**
	Van	3	1	0	**4**
	Subtotal of Pedestrian	**83**	**5**	**25**	**113**
Unknown Status	Aircraft	4	0	0	**4**
	Boat	1	0	0	**1**
	Car	1	1	0	**2**
	Sport Utility Vehicle	1	0	0	**1**
	Unknown	6	0	0	**6**
	Subtotal of Unknown Status	**13**	**1**	**0**	**14**
TOTAL MOTOR VEHICLE FATALITIES		**566**	**47**	**218**	**831**

Table 4.3 Total Number and Rate of OCME Motor Vehicle Deaths by Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	5	15.1
Albemarle County	6	5.8
Alexandria City	2	1.3
Alleghany County	4	24.8
Amelia County	4	31.4
Amherst County	4	12.4
Appomattox County	1	6.6
Arlington County	2	0.9
Augusta County	21	28.4
Bath County	2	43.3
Bedford City	0	0.0
Bedford County	5	7.2
Bland County	2	29.7
Botetourt County	4	12.1
Bristol City	0	0.0
Brunswick County	5	29.5
Buchanan County	5	21.2
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	8	14.5
Caroline County	7	23.9
Carroll County	4	13.4
Charles City County	0	0.0
Charlotte County	1	8.1
Charlottesville City	1	2.3
Chesapeake City	16	6.9
Chesterfield County	29	8.8
Clarke County	0	0.0
Colonial Heights City	2	11.3
Covington City	1	17.2
Craig County	4	76.8
Culpeper County	9	18.6
Cumberland County	5	50.8
Danville City	7	16.3
Dickenson County	0	0.0

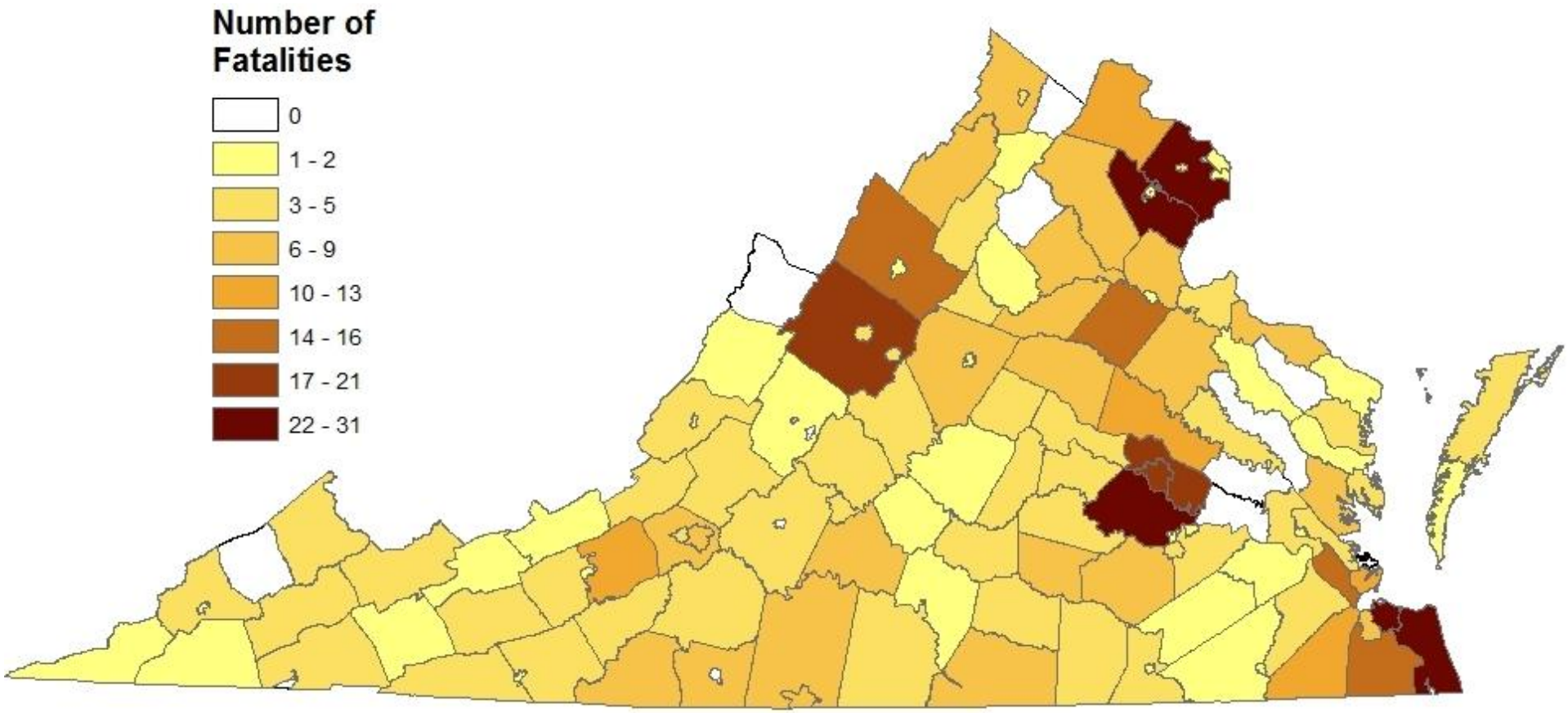
County/City of Residence	Total	Rate
Dinwiddie County	8	28.7
Emporia City	1	17.9
Essex County	2	17.8
Fairfax City	4	16.7
Fairfax County	31	2.7
Falls Church City	0	0.0
Fauquier County	7	10.4
Floyd County	5	32.2
Fluvanna County	4	15.4
Franklin City	2	23.2
Franklin County	5	8.9
Frederick County	6	7.4
Fredericksburg City	2	7.1
Galax City	1	14.2
Giles County	1	5.9
Gloucester County	6	16.3
Goochland County	3	13.9
Grayson County	3	19.8
Greene County	4	21.3
Greensville County	4	33.7
Halifax County	3	8.5
Hampton City	12	8.8
Hanover County	12	11.8
Harrisonburg City	2	3.9
Henrico County	21	6.6
Henry County	6	11.4
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	5	14.0
James City County	5	7.1
King and Queen County	0	0.0
King George County	5	20.1
King William County	3	18.6
Lancaster County	3	26.9
Lee County	1	4.0

County/City of Residence	Total	Rate
Lexington City	0	0.0
Loudoun County	13	3.7
Louisa County	9	26.5
Lunenburg County	4	31.9
Lynchburg City	4	5.1
Madison County	2	15.2
Manassas City	1	2.4
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	4	45.0
Mecklenburg County	6	19.1
Middlesex County	2	18.6
Montgomery County	11	11.4
Nelson County	5	33.8
New Kent County	0	0.0
Newport News City	15	8.2
Norfolk City	26	10.6
Northampton County	2	16.5
Northumberland County	2	16.4
Norton City	1	24.9
Nottoway County	6	38.0
Orange County	6	17.3
Page County	4	16.8
Patrick County	6	32.7
Petersburg City	5	15.4
Pittsylvania County	8	12.8
Poquoson City	0	0.0
Portsmouth City	6	6.2
Powhatan County	4	14.2
Prince Edward County	4	17.5
Prince George County	4	10.7
Prince William County	26	5.9
Pulaski County	4	11.6
Radford City	2	11.6
Rappahannock County	0	0.0
Richmond City	19	8.9

County/City of Residence	Total	Rate
Richmond County	0	0.0
Roanoke City	8	8.1
Roanoke County	8	8.6
Rockbridge County	1	4.5
Rockingham County	14	18.0
Russell County	3	10.6
Salem City	4	15.8
Scott County	1	4.4
Shenandoah County	8	18.7
Smyth County	2	6.3
Southampton County	1	5.5
Spotsylvania County	14	11.0
Stafford County	6	4.4
Staunton City	5	20.5
Suffolk City	12	14.0
Surry County	2	29.6
Sussex County	1	8.5
Tazewell County	5	11.3
Virginia Beach City	30	6.7
Warren County	2	5.2
Washington County	4	7.3
Waynesboro City	3	14.1
Westmoreland County	6	34.1
Williamsburg City	1	6.6
Winchester City	3	11.0
Wise County	3	7.4
Wythe County	3	10.2
York County	4	6.0
Subtotal (in state)	**710**	**8.6**
Out of State	119	ND
Unknown	2	ND
Subtotal (out of state)	**121**	**ND**
TOTAL	**831**	**10.1**

Note: No denominator is represented by ND

Map 4.1 Total Number of OCME Motor Vehicle Fatalities by Locality of Residence, 2013



Map 4.2 Rate of OCME Motor Vehicle Fatalities by Locality of Residence, 2013

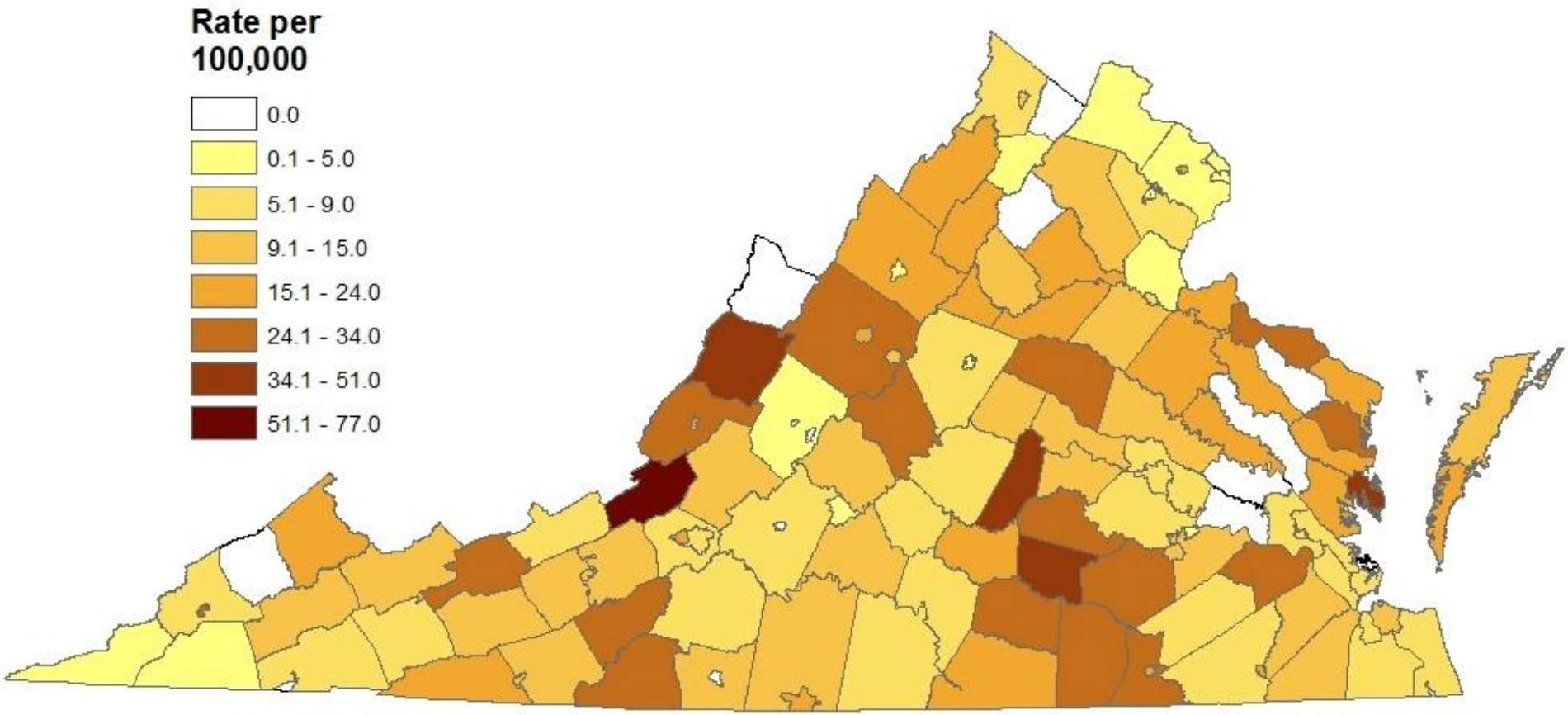


Table 4.4 Total Number and Rate of OCME Motor Vehicle Deaths by Locality of Injury, 2013

County/City of Injury	Total	Rate
Accomack County	8	24.1
Albemarle County	14	13.6
Alexandria City	2	1.3
Alleghany County	4	24.8
Amelia County	4	31.4
Amherst County	4	12.4
Appomattox County	1	6.6
Arlington County	3	1.3
Augusta County	21	28.4
Bath County	1	21.7
Bedford City	0	0.0
Bedford County	10	14.3
Bland County	1	14.8
Botetourt County	4	12.1
Bristol City	1	5.8
Brunswick County	12	70.7
Buchanan County	4	17.0
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	6	10.9
Caroline County	14	47.8
Carroll County	13	43.5
Charles City County	0	0.0
Charlotte County	4	32.5
Charlottesville City	2	4.5
Chesapeake City	16	6.9
Chesterfield County	30	9.2
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	1	17.2
Craig County	4	76.8
Culpeper County	9	18.6
Cumberland County	5	50.8
Danville City	7	16.3
Dickenson County	1	6.5

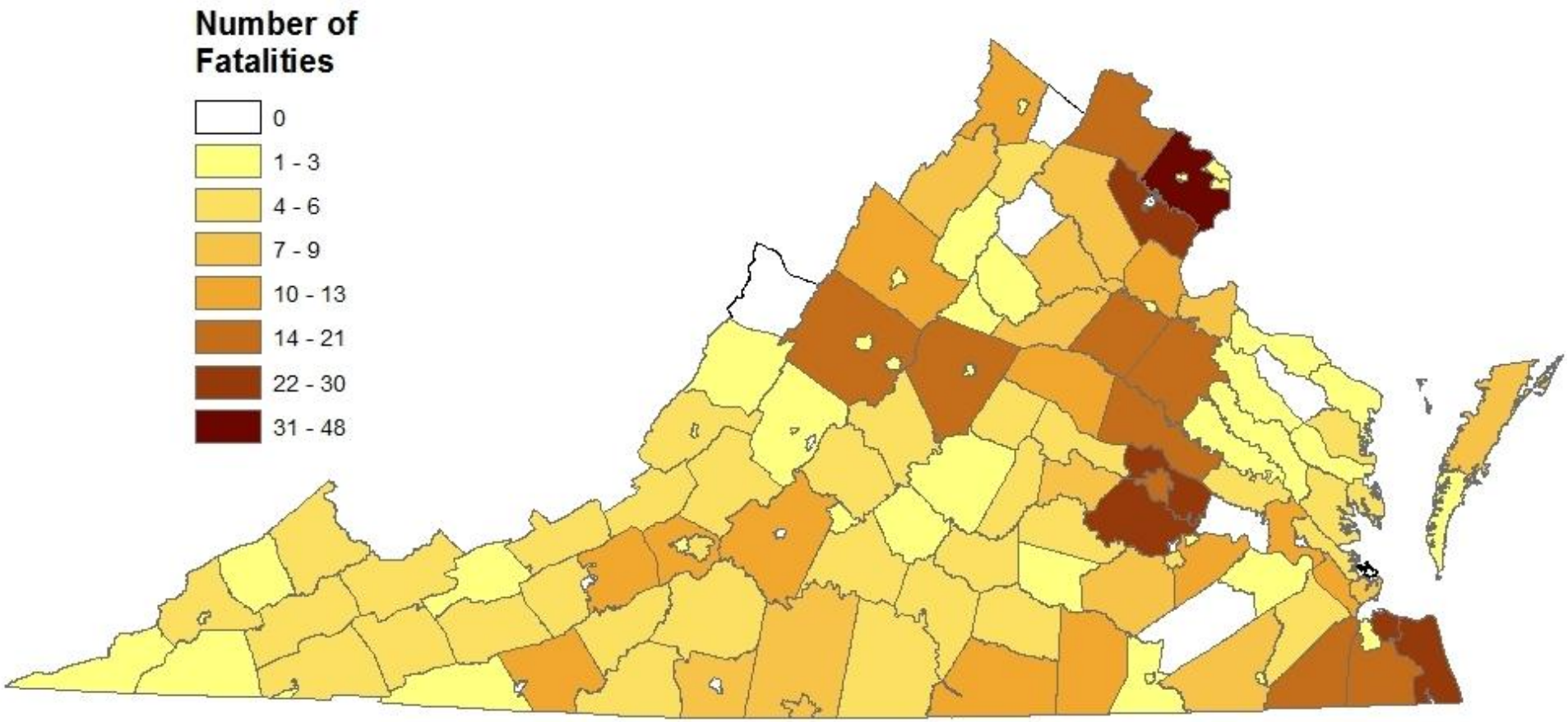
County/City of Injury	Total	Rate
Dinwiddie County	8	28.7
Emporia City	1	17.9
Essex County	1	8.9
Fairfax City	2	8.3
Fairfax County	48	4.2
Falls Church City	0	0.0
Fauquier County	8	11.9
Floyd County	5	32.2
Fluvanna County	5	19.2
Franklin City	0	0.0
Franklin County	7	12.4
Frederick County	10	12.3
Fredericksburg City	2	7.1
Galax City	0	0.0
Giles County	5	29.5
Gloucester County	4	10.9
Goochland County	5	23.1
Grayson County	2	13.2
Greene County	2	10.6
Greensville County	3	25.2
Halifax County	4	11.3
Hampton City	9	6.6
Hanover County	14	13.8
Harrisonburg City	1	1.9
Henrico County	25	7.8
Henry County	9	17.1
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	6	16.8
James City County	12	17.0
King and Queen County	1	14.0
King George County	8	32.1
King William County	2	12.4
Lancaster County	4	35.9
Lee County	2	7.9

County/City of Injury	Total	Rate
Lexington City	2	27.9
Loudoun County	16	4.6
Louisa County	12	35.4
Lunenburg County	5	39.9
Lynchburg City	1	1.3
Madison County	1	7.6
Manassas City	0	0.0
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	4	45.0
Mecklenburg County	10	31.8
Middlesex County	2	18.6
Montgomery County	11	11.4
Nelson County	4	27.0
New Kent County	5	25.6
Newport News City	10	5.5
Norfolk City	29	11.8
Northampton County	1	8.2
Northumberland County	2	16.4
Norton City	1	24.9
Nottoway County	3	19.0
Orange County	7	20.2
Page County	3	12.6
Patrick County	5	27.2
Petersburg City	4	12.3
Pittsylvania County	8	12.8
Poquoson City	0	0.0
Portsmouth City	3	3.1
Powhatan County	7	24.8
Prince Edward County	6	26.3
Prince George County	10	26.8
Prince William County	25	5.7
Pulaski County	5	14.5
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	19	8.9

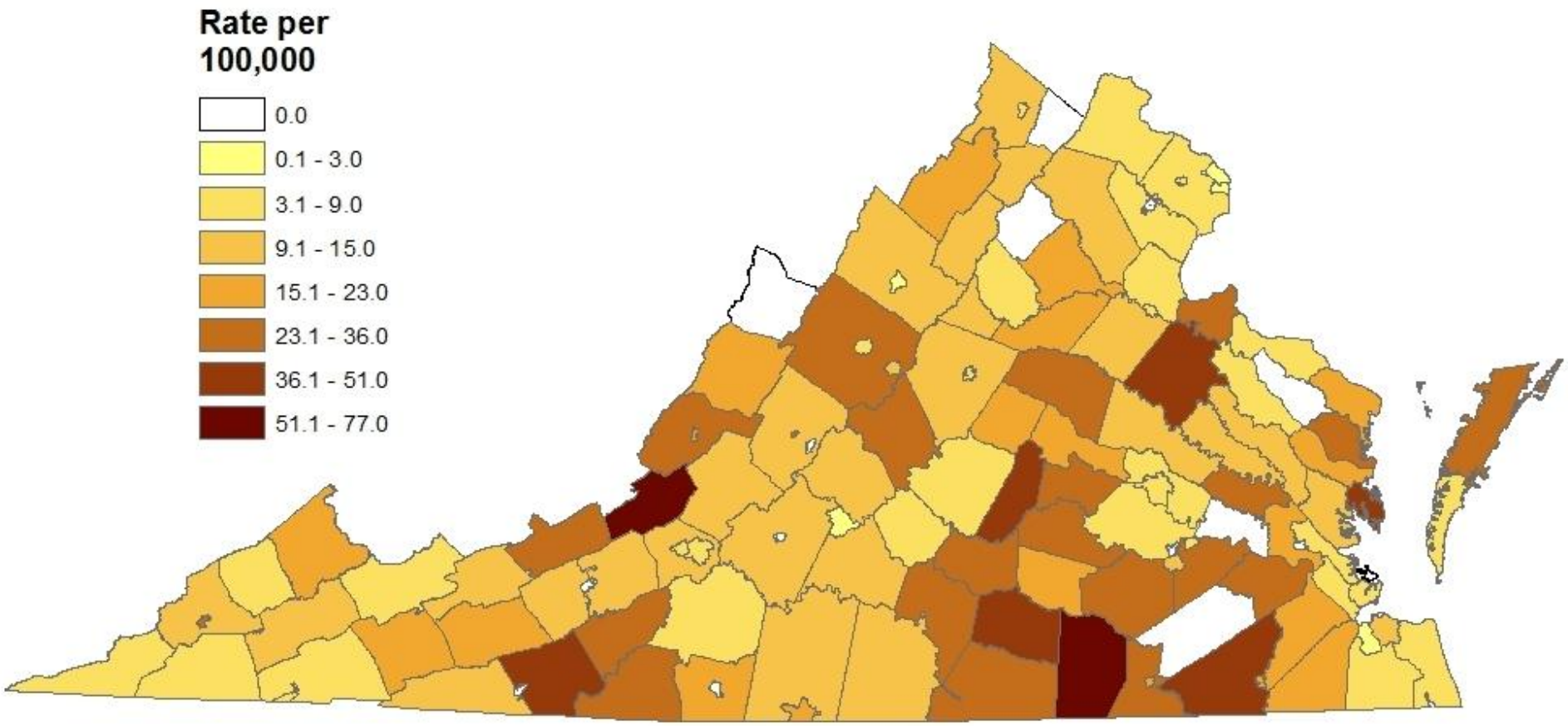
County/City of Injury	Total	Rate
Richmond County	0	0.0
Roanoke City	6	6.1
Roanoke County	13	13.9
Rockbridge County	3	13.4
Rockingham County	11	14.1
Russell County	4	14.2
Salem City	1	4.0
Scott County	1	4.4
Shenandoah County	7	16.4
Smyth County	5	15.8
Southampton County	9	49.6
Spotsylvania County	16	12.6
Stafford County	11	8.0
Staunton City	1	4.1
Suffolk City	16	18.7
Surry County	2	29.6
Sussex County	0	0.0
Tazewell County	4	9.1
Virginia Beach City	29	6.5
Warren County	4	10.3
Washington County	5	9.1
Waynesboro City	3	14.1
Westmoreland County	1	5.7
Williamsburg City	0	0.0
Winchester City	1	3.7
Wise County	5	12.3
Wythe County	5	17.0
York County	4	6.0
Subtotal (in state)	**811**	**9.8**
Out of State	18	ND
Unknown	2	ND
Subtotal (out of state)	**20**	**ND**
TOTAL	**831**	**10.1**

Note: No denominator is represented by ND

Map 4.3 Total Number of OCME Motor Vehicle Fatalities by Locality of Injury, 2013



Map 4.4 Rate of OCME Motor Vehicle Fatalities by Locality of Injury, 2013



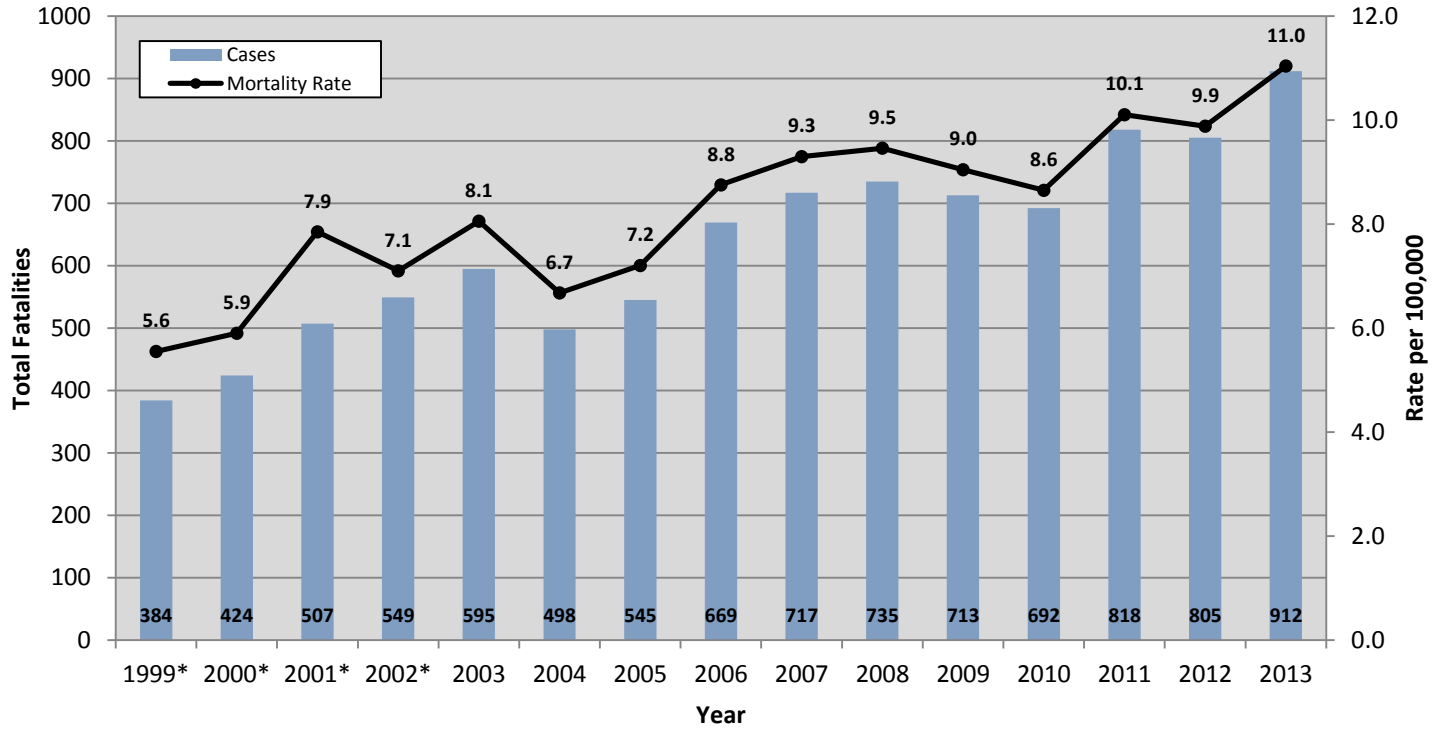
SECTION 5: DRUG/POISON DEATHS (N=912)

TOTAL DRUG/POISON DEATHS (N=912)

The overall number of drug/poisoning in 2013 cases significantly increased compared to 2012 (13.3%).

- The overall rate of drug/poison deaths occurring in Virginia was 11.0 per 100,000 persons
- The majority of cases were accidents (81.6%), males (62.3%), whites (84.5%), and 25-34 year olds (25.9%)
- For the first time, the numbers of drug/poison deaths in 2013 were almost evenly distributed across all 4 district OCME offices. Historically, the Western OCME manages about 1/3 of all drug/poison deaths in the state.

Figure 5.1 Total Number and Rate of OCME Drug/Poison Deaths by Year of Death, 1999-2013



*Rate calculations for years 2003-2011 were recalculated using updated annual Virginia population totals. These population estimates came from the Virginia Department of Health, Division of Health Statistics (http://www.vdh.virginia.gov/healthstats/stats.htm#pop); Stars on years 1999-2002 indicate that a different Virginia population source was used for the rate calculation as determined by previous OCME Annual Reports .

Table 5.1 Total Number and Percentage of OCME Drug/Poison Deaths by District, 2013

OCME District	Total	Percentage
Central	235	25.8%
Northern	219	24.0%
Tidewater	212	23.2%
Western	246	27.0%
TOTAL	912	100.0%

Figure 5.2 Percentage of OCME Drug/Poison Deaths by Manner, 2013

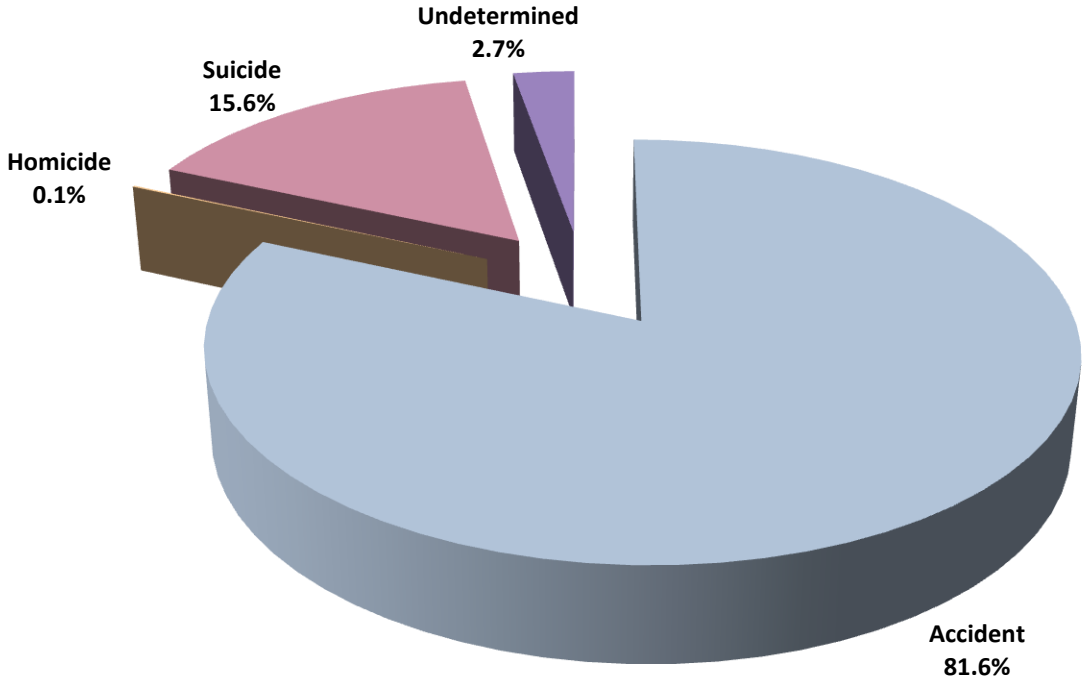
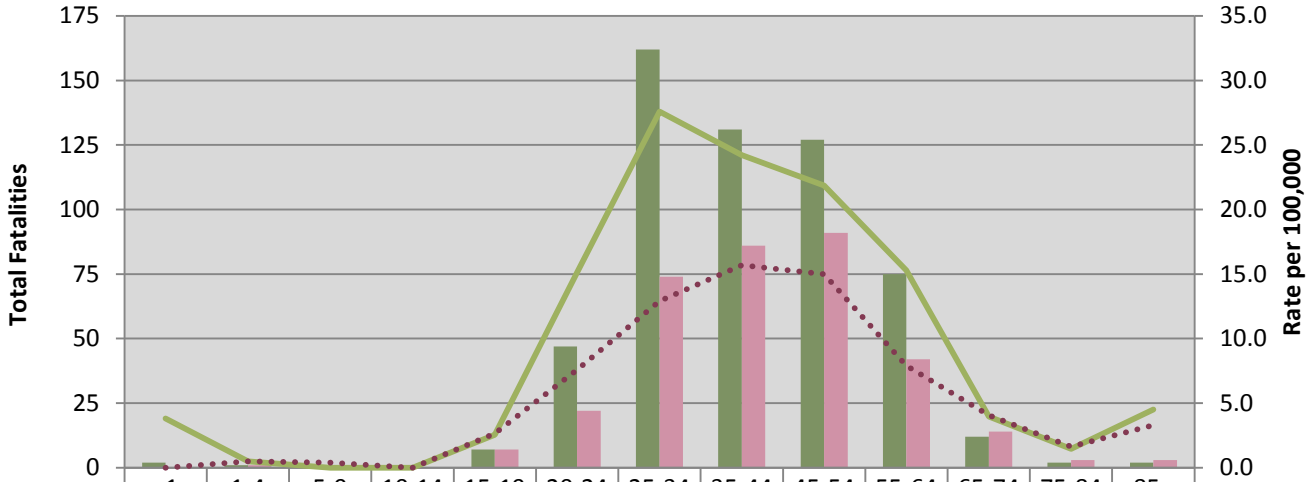


Figure 5.3 Total Number and Rate of OCME Drug/Poison Deaths by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	2	1	0	0	7	47	162	131	127	75	12	2	2
Female	0	1	1	0	7	22	74	86	91	42	14	3	3
Male Rate	3.8	0.5	0.0	0.0	2.6	15.1	27.6	24.2	21.9	15.3	4.0	1.5	4.5
Female Rate	0.0	0.5	0.4	0.0	2.7	7.6	12.9	15.7	15.0	7.9	4.1	1.6	3.3

Age Group (years)

Table 5.2 Total Number of OCME Drug/Poison Deaths by Age Group and Manner, 2013

Age Group (years)	Accident	Homicide	Suicide	Undetermined	Total
<1	0	1	0	1	**2**
1-4	2	0	0	0	**2**
5-9	1	0	0	0	**1**
10-14	0	0	0	0	**0**
15-19	10	0	2	2	**14**
20-24	65	0	4	0	**69**
25-34	209	0	22	5	**236**
35-44	174	0	37	6	**217**
45-54	179	0	36	3	**218**
55-64	87	0	24	6	**117**
65-74	14	0	10	2	**26**
75-84	1	0	4	0	**5**
85+	2	0	3	0	**5**
TOTAL	**744**	**1**	**142**	**25**	**912**

Figure 5.4 Percentage of OCME Drug/Poison Deaths by Race/Ethnicity, 2013

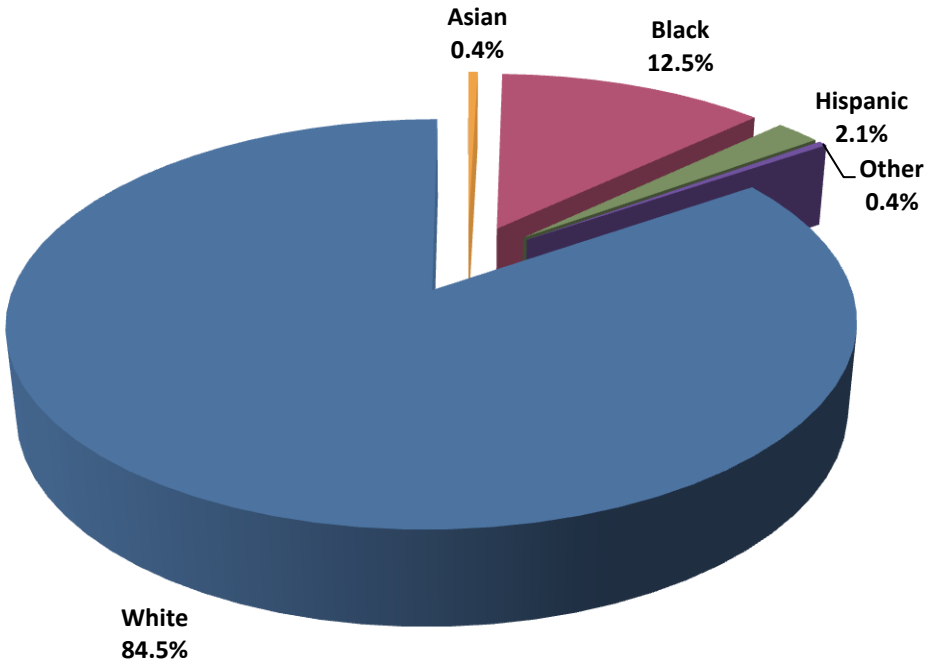
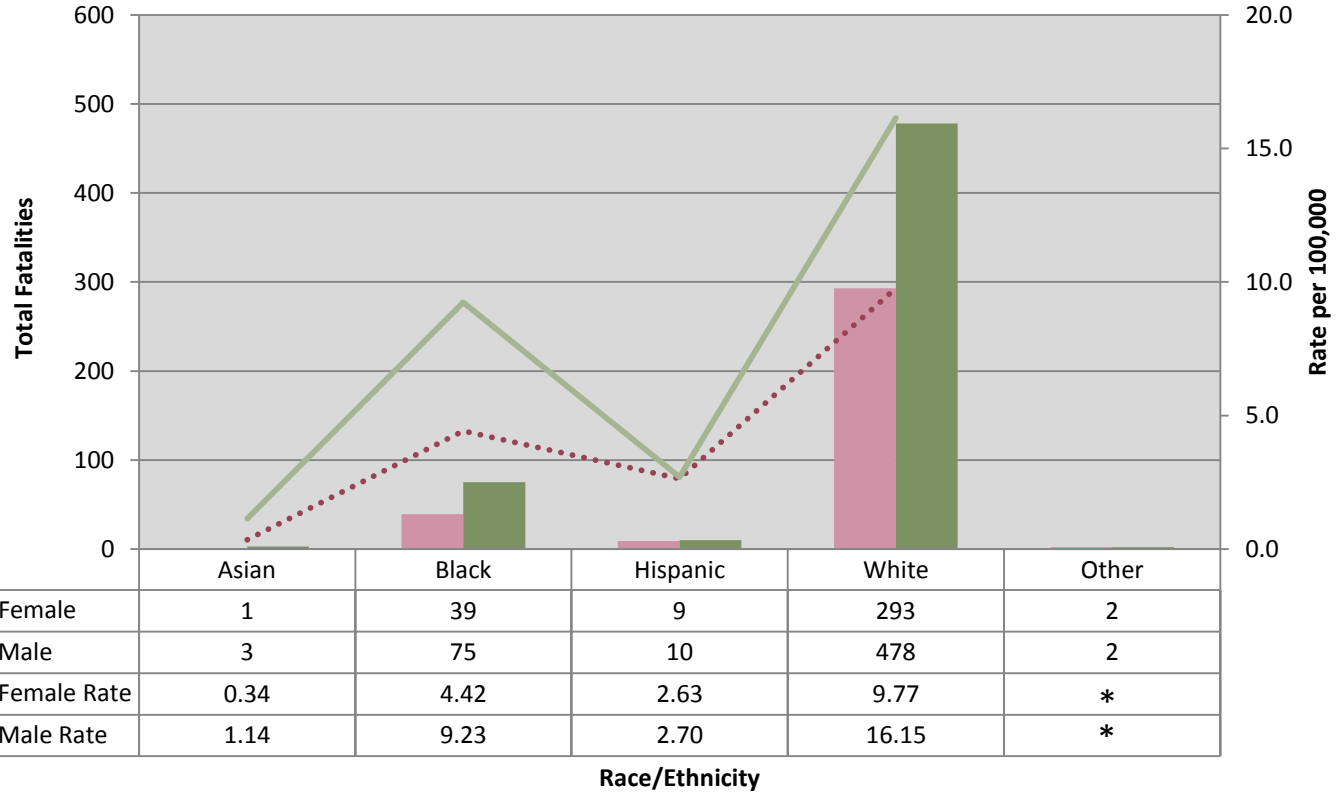


Figure 5.5 Number and Rate of OCME Drug/Poison Deaths by Race/Ethnicity and Gender, 2013



	Asian	Black	Hispanic	White	Other
Female	1	39	9	293	2
Male	3	75	10	478	2
Female Rate	0.34	4.42	2.63	9.77	*
Male Rate	1.14	9.23	2.70	16.15	*

*No rate can be calculated

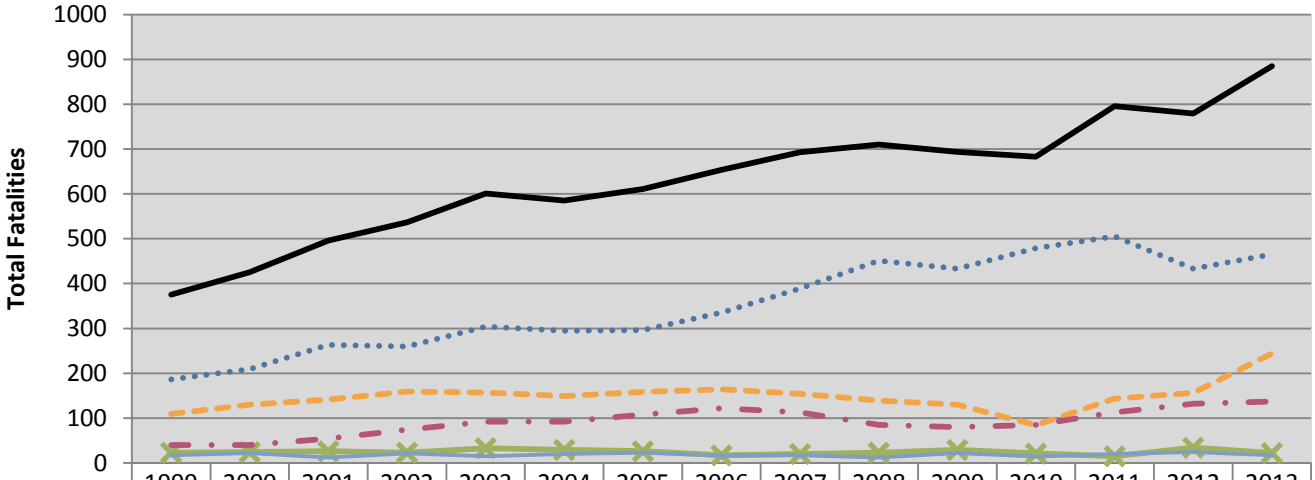
Table 5.3 Total Number of OCME Drug/Poison Deaths by District and Cause of Death, 2013

Cause of Death	Central	Northern	Tidewater	Western	Total
Ethanol poisoning	7	5	2	8	**22**
Ethylene glycol poisoning	0	0	2	0	**2**
Illegal (street) drug poisoning	82	51	73	38	**244**
Inhalant poisoning	4	2	4	0	**10**
Mixed drug category	34	41	33	29	**137**
Not otherwise specified poisoning	4	0	6	2	**12**
Over the counter (OTC) poisoning	10	3	2	2	**17**
Other poisons (heavy metals, etc.)	1	1	0	1	**3**
Prescription drug poisoning	93	116	90	166	**465**
TOTAL	**235**	**219**	**212**	**246**	**912**

Table 5.4 Total Number of OCME Drug/Poison Deaths by Manner and Cause of Death, 2013

Cause of Death	Accident	Homicide	Suicide	Undetermined	Total
Ethanol poisoning	20	0	0	2	**22**
Ethylene glycol poisoning	0	0	2	0	**2**
Illegal (street) drug poisoning	242	1	1	0	**244**
Inhalant poisoning	9	0	1	0	**10**
Mixed drug category	119	0	15	3	**137**
Not otherwise specified poisoning	9	0	2	1	**12**
Over the counter (OTC) poisoning	5	0	10	2	**17**
Other poisons (heavy metals, etc.)	2	0	1	0	**3**
Prescription drug poisoning	338	0	110	17	**465**
TOTAL	**744**	**1**	**142**	**25**	**912**

Figure 5.6 Total Number of OCME Drug/Poison Deaths by Drug Category and Year of Death, 1999-2013



	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Ethanol	23	24	26	23	33	29	26	17	20	23	29	21	15	34	22
Illegal	109	130	141	159	157	149	158	164	154	139	130	84	143	156	244
Mixed	40	40	54	74	92	92	108	122	113	85	80	85	113	132	137
OTC	17	22	12	21	15	20	23	16	17	12	22	14	20	24	17
Prescription	186	209	263	260	304	295	296	335	389	451	433	479	505	433	465
All Drug Deaths	375	425	496	537	601	585	611	654	693	710	694	683	796	779	885

Year

*Inhalant, ethylene gylcol, not specified, and other poisonings were exluded from this graph due to small case counts per year.

Figure 5.7 Total Number of OCME Drug/Poison Deaths by Drug Category and Gender, 2012

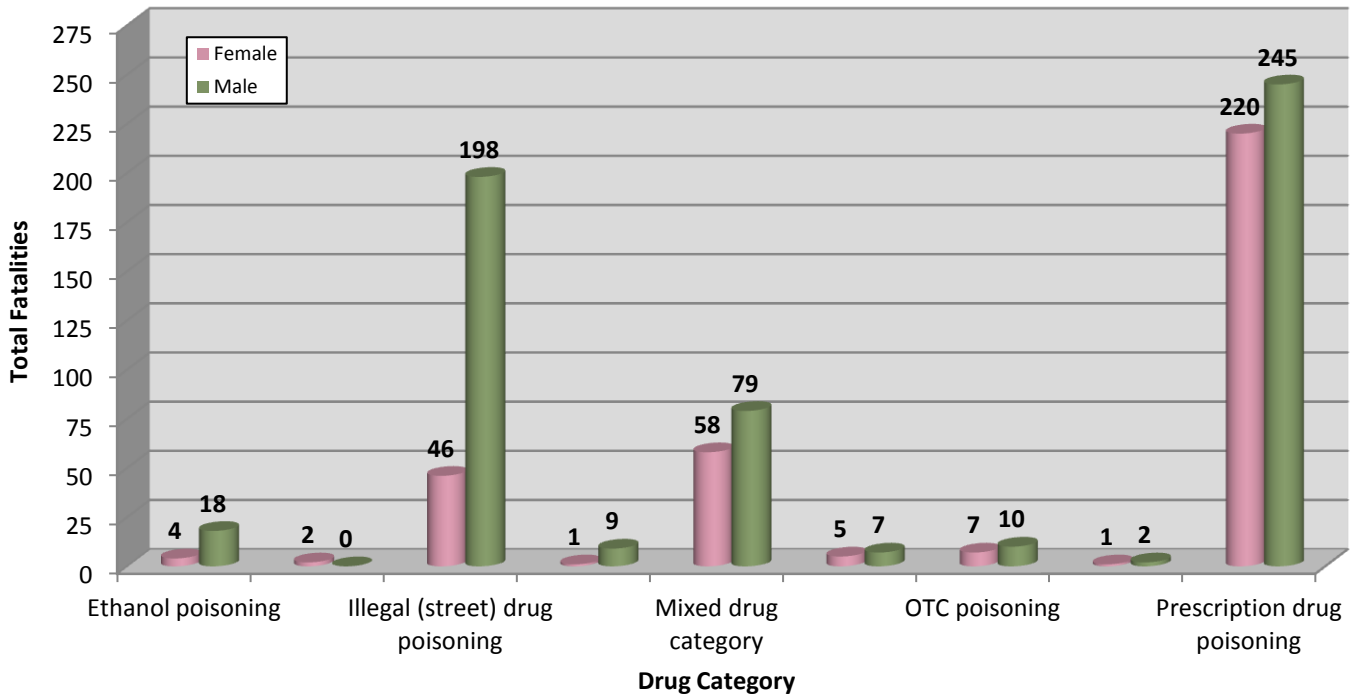
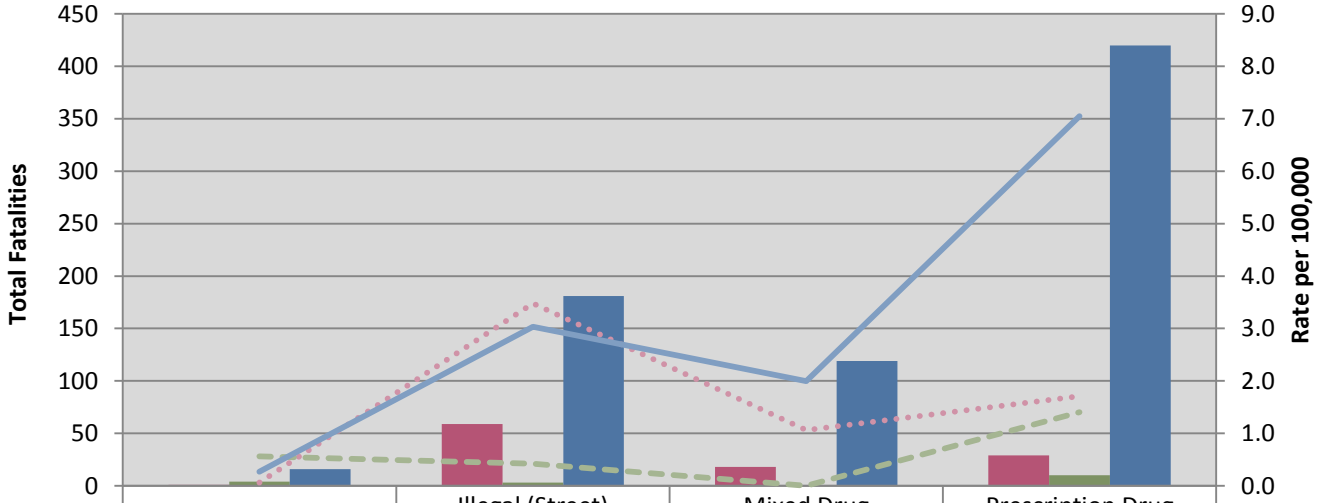


Figure 5.8 Total Number and Rate of OCME Drug/Poison Deaths by Drug Category and Race/Ethnicity*, 2013



	Ethanol Poisoning	Illegal (Street) Drug Poisoning	Mixed Drug Poisoning	Prescription Drug Poisoning
Black	1	59	18	29
Hispanic	4	3	0	10
White	16	181	119	420
Black Rate	0.1	3.5	1.1	1.7
Hispanic Rate	0.6	0.4	0.0	1.4
White Rate	0.3	3.0	2.0	7.0

Drug Category

*Asian and Other race/ethnicity categories were excluded from this figure because the total number of drug/poison fatalities in these groups were five or under.

Figure 5.9 Total Number of OCME Drug/Poison Deaths by Drug Category and Ethanol Level, 2013

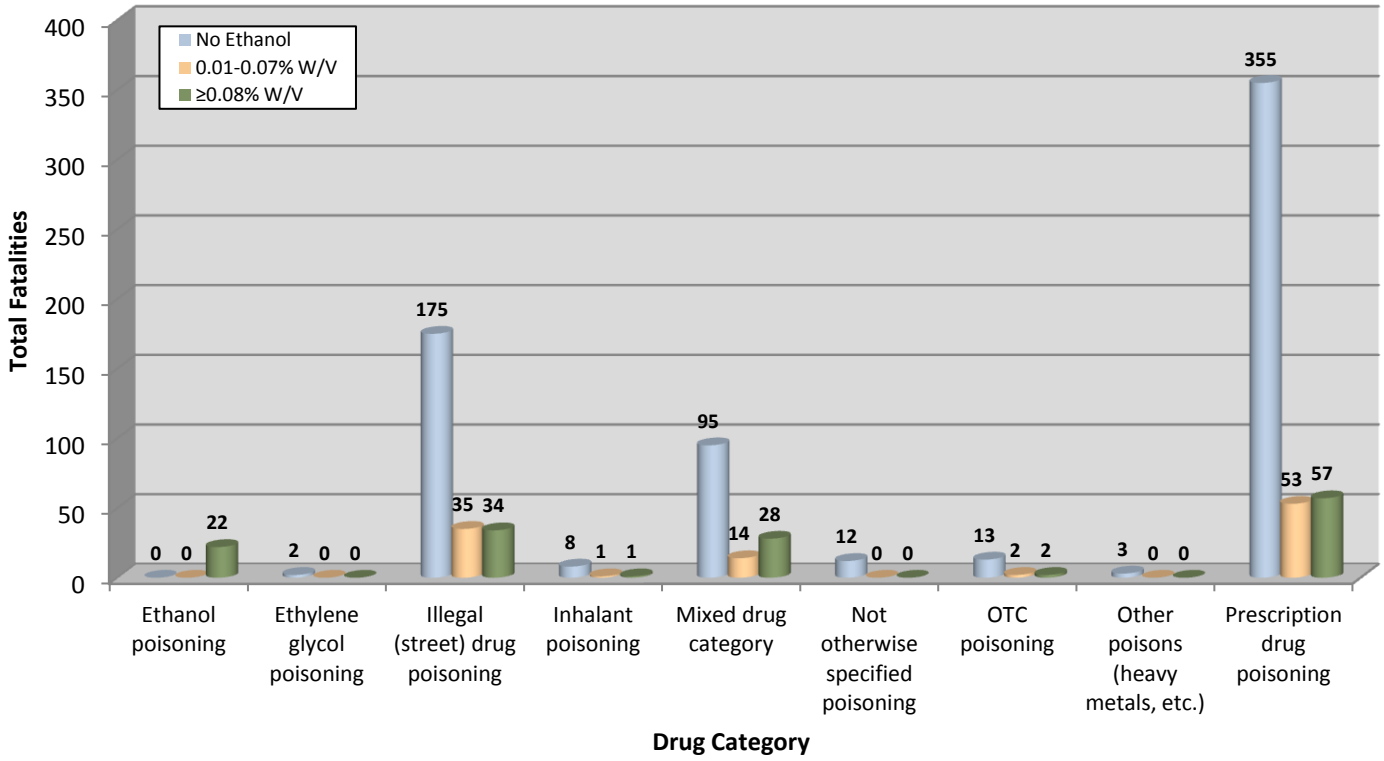


Table 5.5 Total Number of OCME Drug/Poison Deaths by Cause of Death and Whether Alcohol Caused Death, 2013

	Whether Alcohol Caused Death			
Cause of Death	**Yes**	**No**	**Contributed**	**Total**
Ethanol poisoning	22	0	0	**22**
Ethylene glycol poisoning	0	2	0	**2**
Illegal (street) drug poisoning	30	209	5	**244**
Inhalant poisoning	1	9	0	**10**
Mixed drug category	29	104	4	**137**
Not otherwise specified poisoning	0	12	0	**12**
OTC poisoning	1	15	1	**17**
Other poisons (heavy metals, etc.)	0	3	0	**3**
Prescription drug poisoning	66	391	8	**465**
TOTAL	**149**	**745**	**18**	**912**

Table 5.10 Total Number of OCME Drug/Poison Deaths by Drug/Poison/Metabolites Detected, 2013

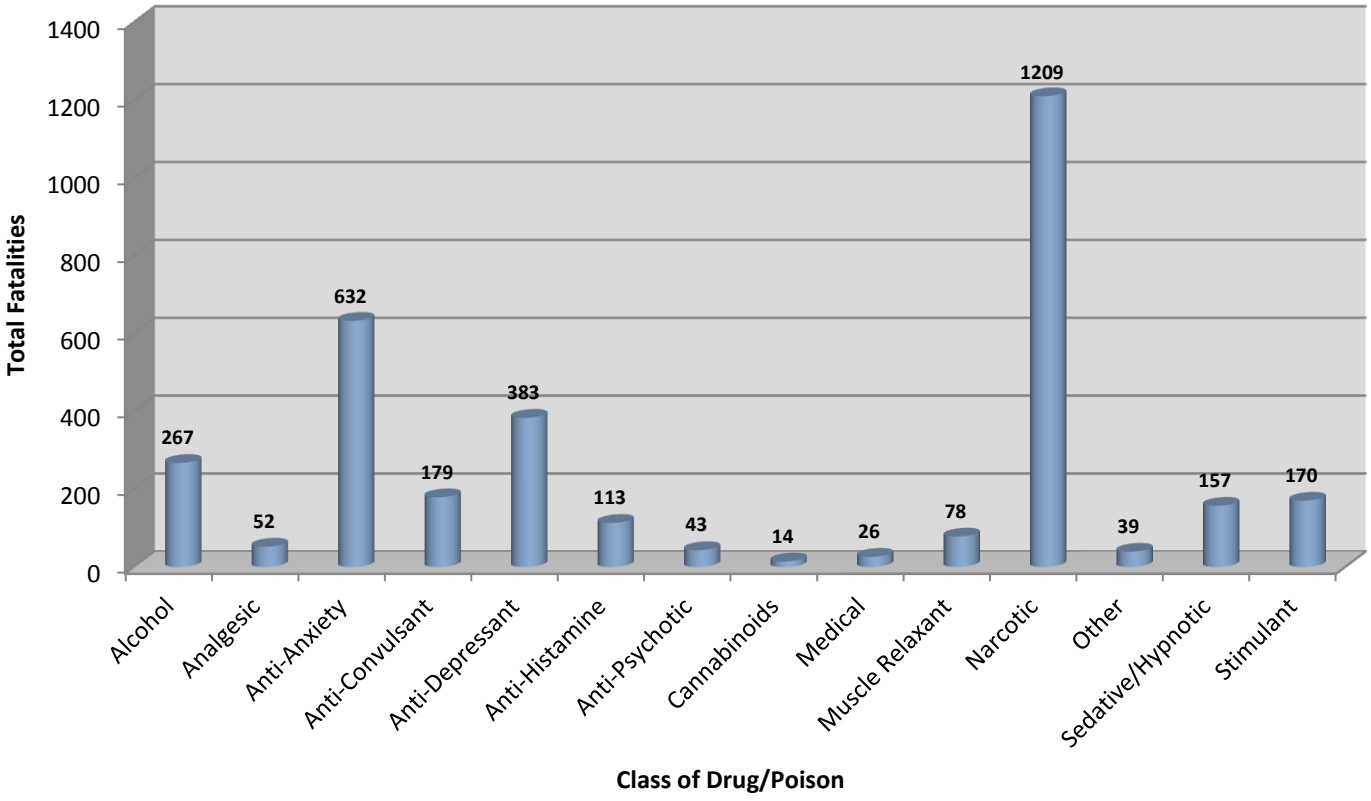


Table 5.6 Number and Percentage of OCME Drug/Poison Deaths by Drug/Poison/Metabolite Detected, 2013

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
Alcohol			**7.8%**
	Acetone	6	0.2%
	Ethanol	249	7.2%
	Isobutanol	1	0.0%
	Isopropanol	6	0.2%
	Methanol	4	0.1%
	n-Butanol	1	0.0%
Analgesic			**1.5%**
	Acetaminophen	12	0.3%
	Buprenorphine	2	0.1%
	Dextromethorphan	32	0.9%
	Ibuprofen	1	0.0%
	Indomethacin	1	0.0%
	Ketamine	1	0.0%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Pramoxine	1	0.0%
	Tapentadol	2	0.1%
Anti-Anxiety			**18.3%**
	Alprazolam	290	8.4%
	Benzodiazapines (unspecified)	4	0.1%
	Chlordiazepoxide	7	0.2%
	Diazepam	106	3.1%
	Lorazepam	27	0.8%
	Meprobamate	14	0.4%
	Nordiazepam (Diazepam Metabolite)	128	3.7%
	Oxazepam	56	1.6%
Anti-Convulsant			**5.2%**
	Carbamazepine	4	0.1%
	Clonazepam	134	3.9%
	Gabapentin	16	0.5%
	Lamotrigine	6	0.2%
	Midazolam	9	0.3%
	Oxcarbazepine	3	0.1%
	Pentobarbital	2	0.1%
	Phenobarbital	2	0.1%
	Phenytoin	1	0.0%
	Pregabalin	2	0.1%
Anti-Depressant			**11.1%**
	Amitriptyline	51	1.5%
	Bupropion	29	0.8%
	Citalopram	66	1.9%
	Clomipramine	4	0.1%
	Desipramine	3	0.1%
	Doxepin	8	0.2%
	Duloxetine	1	0.0%
	Fluoxetine	30	0.9%
	Fluvoxamine	1	0.0%
	Imipramine	1	0.0%
	Mirtazapine	24	0.7%
	Nordoxepin	2	0.1%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Nortriptyline	55	1.6%
	Paroxetine	11	0.3%
	Sertraline	23	0.7%
	Trazodone	51	1.5%
	Venlafaxine	23	0.7%
Anti-Histamine			**3.3%**
	Chlorpheniramine	17	0.5%
	Diphenhydramine	81	2.4%
	Doxylamine	12	0.3%
	Meclizine	3	0.1%
Anti-Psychotic			**1.2%**
	Chlorpromazine	4	0.1%
	Clozapine	3	0.1%
	Haloperidol	1	0.0%
	Lithium	1	0.0%
	Olanzapine	10	0.3%
	Quetiapine	24	0.7%
Cannabinoids			**0.4%**
	Tetrahydrocannabinol Carboxylic Acid (THC)	14	0.4%
Medical			**0.8%**
	Amlodipine	1	0.0%
	Atenolol	3	0.1%
	Atropine	2	0.1%
	Benztropine	5	0.1%
	Diltiazem	3	0.1%
	Donepezil	1	0.0%
	Loperamide	1	0.0%
	Metoclopramide	1	0.0%
	Metoprolol	2	0.1%
	Trimethoprim	1	0.0%
	Verapamil	6	0.2%
Muscle Relaxant			**2.3%**
	Baclofen	**2**	0.1%
	Carisoprodol	13	0.4%
	Cyclobenzaprine	59	1.7%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Metaxalone	2	0.1%
	Methocarbamol	1	0.0%
	Papaverine	1	0.0%
Narcotic			**36.1%**
	6-Acetylmorphine (Heroin Metabolite)	161	4.7%
	Codeine	117	3.4%
	Fentanyl	108	3.1%
	Hydrocodone	89	2.6%
	Hydromorphone	45	1.3%
	Meperidine	1	0.0%
	Methadone	119	3.5%
	Morphine	283	8.2%
	Oxycodone	207	6.0%
	Oxymorphone	67	1.9%
	Pentazocine	3	0.1%
	Propoxyphene	1	0.0%
	Tramadol	43	1.2%
Other			**1.1%**
	Acetonitrile	1	0.0%
	Butanone	1	0.0%
	Carbon Monoxide	3	0.1%
	Chlorodifluoromethane	2	0.1%
	Dicyclomine	2	0.1%
	Difluoroethane	4	0.1%
	Ethylene Glycol	2	0.1%
	Levamisole/Tetramisole	12	0.3%
	Lidocaine	9	0.3%
	Propranolol	1	0.0%
	Salicylic Acid	1	0.0%
	Theobromine	1	0.0%
Sedative/Hypnotic			**4.6%**
	Butalbital	11	0.3%
	Promethazine	59	1.7%
	Propofol	1	0.0%
	Temazepam	57	1.7%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Zolpidem	26	0.8%
	Zopiclone	3	0.1%
Stimulant			**6.3%**
	Amphetamine	23	0.7%
	Caffeine	1	0.0%
	Cocaethylene	23	0.7%
	Cocaine	142	4.1%
	MDMA (Mixed Compounds)	2	0.1%
	Methamphetamine	12	0.3%
	Methylenedioxypyrovalerone	1	0.0%
	Methyphenidate	1	0.0%
	Phencyclidine	8	0.2%
	Phentermine	1	0.0%
	Pyrovalerone	4	0.1%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED		**3445**	**100.0%**

Figure 5.11 Total Number of OCME Drug/Poison Deaths by Class of Drug/Poison/Metabolite Causing or Contributing to Death, 2013

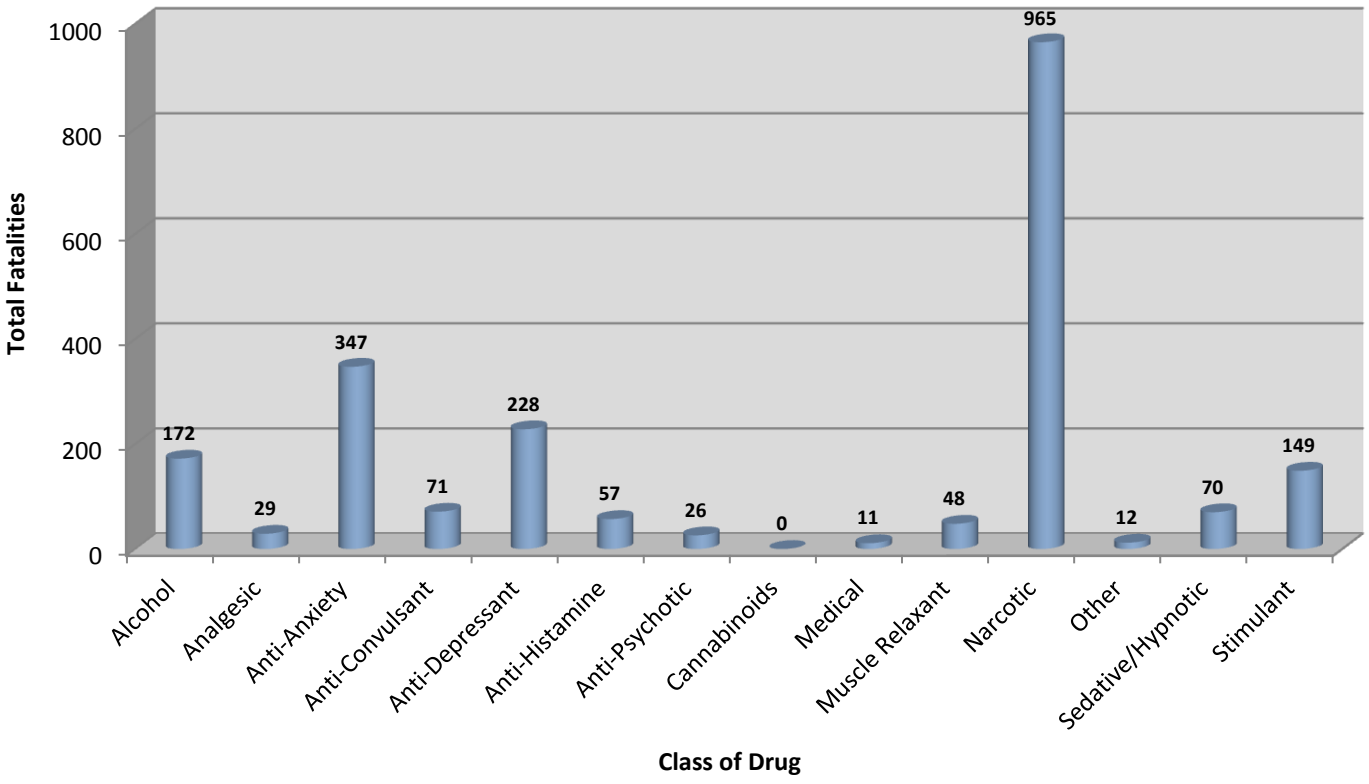


Table 5.7 Total Number of OCME Drug/Poison Deaths by Drug/Poison/Metabolites that Caused or Contributed to Death, 2013

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
Alcohol			**7.6%**
	Acetone	0	0.0%
	Ethanol	167	7.4%
	Isobutanol	1	0.0%
	Isopropanol	1	0.0%
	Methanol	2	0.1%
	n-Butanol	1	0.0%
Analgesic			**1.3%**
	Acetaminophen	7	0.3%
	Buprenorphine	1	0.0%
	Dextromethorphan	18	0.8%
	Ibuprofen	0	0.0%
	Indomethacin	0	0.0%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Ketamine	1	0.0%
	Pramoxine	0	0.0%
	Tapentadol	2	0.1%
Anti-Anxiety			**15.3%**
	Alprazolam	174	7.7%
	Benzodiazapines (unspecified)	1	0.0%
	Chlordiazepoxide	5	0.2%
	Diazepam	63	2.8%
	Lorazepam	14	0.6%
	Meprobamate	9	0.4%
	Nordiazepam (Diazepam Metabolite)	57	2.5%
	Oxazepam	24	1.1%
Anti-Convulsant			**3.1%**
	Carbamazepine	3	0.1%
	Clonazepam	43	1.9%
	Gabapentin	14	0.6%
	Lamotrigine	3	0.1%
	Midazolam	2	0.1%
	Oxcarbazepine	2	0.1%
	Pentobarbital	2	0.1%
	Phenobarbital	1	0.0%
	Phenytoin	0	0.0%
	Pregabalin	1	0.0%
Anti-Depressant			**10.0%**
	Amitriptyline	35	1.5%
	Bupropion	19	0.8%
	Citalopram	36	1.6%
	Clomipramine	2	0.1%
	Desipramine	2	0.1%
	Doxepin	7	0.3%
	Duloxetine	1	0.0%
	Fluoxetine	16	0.7%
	Fluvoxamine	0	0.0%
	Imipramine	1	0.0%
	Mirtazapine	10	0.4%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Nordoxepin	1	0.0%
	Nortriptyline	36	1.6%
	Paroxetine	8	0.4%
	Sertraline	12	0.5%
	Trazodone	27	1.2%
	Venlafaxine	15	0.7%
Anti-Histamine			**2.5%**
	Chlorpheniramine	6	0.3%
	Diphenhydramine	42	1.9%
	Doxylamine	7	0.3%
	Meclizine	2	0.1%
Anti-Psychotic			**1.1%**
	Chlorpromazine	1	0.0%
	Clozapine	3	0.1%
	Haloperidol	1	0.0%
	Lithium	1	0.0%
	Olanzapine	3	0.1%
	Quetiapine	17	0.7%
Cannabinoids			**0.0%**
	Tetrahydrocannabinol Carboxylic Acid (THC)	0	0.0%
Medical			**0.5%**
	Amlodipine	0	0.0%
	Atenolol	2	0.1%
	Atropine	1	0.0%
	Benztropine	3	0.1%
	Diltiazem	0	0.0%
	Donepezil	1	0.0%
	Loperamide	1	0.0%
	Metoclopramide	0	0.0%
	Metoprolol	1	0.0%
	Trimethoprim	0	0.0%
	Verapamil	2	0.1%
Muscle Relaxant			**2.1%**
	Baclofen	2	0.1%
	Carisoprodol	9	0.4%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Cyclobenzaprine	35	1.5%
	Metaxalone	1	0.0%
	Methocarbamol	1	0.0%
	Papaverine	0	0.0%
Narcotic			**44.1%**
	6-Acetylmorphine (Heroin Metabolite)	107	4.7%
	Codeine	52	2.3%
	Fentanyl	102	4.5%
	Hydrocodone	69	3.0%
	Hydromorphone	36	1.6%
	Meperidine	1	0.0%
	Methadone	104	4.6%
	Morphine	265	11.7%
	Oxycodone	180	7.9%
	Oxymorphone	52	2.3%
	Pentazocine	1	0.0%
	Propoxyphene	0	0.0%
	Tramadol	31	1.4%
Other			**0.5%**
	Acetonitrile	1	0.0%
	Butanone	1	0.0%
	Carbon Monoxide	0	0.0%
	Chlorodifluoromethane	2	0.1%
	Dicyclomine	1	0.0%
	Difluoroethane	4	0.2%
	Ethylene Glycol	2	0.1%
	Levamisole/Tetramisole	0	0.0%
	Lidocaine	0	0.0%
	Propranolol	0	0.0%
	Salicylic Acid	1	0.0%
	Theobromine	0	0.0%
Sedative/Hypnotic			**3.1%**
	Butalbital	6	0.3%
	Promethazine	20	0.9%
	Propofol	0	0.0%

Class	Drug/Poison/Active Metabolite	Total	Percentage of Cases
	Temazepam	26	1.1%
	Zolpidem	16	0.7%
	Zopiclone	2	0.1%
Stimulant			**8.8%**
	Amphetamine	17	0.7%
	Caffeine	0	0.0%
	Cocaethylene	21	0.9%
	Cocaine	137	6.0%
	MDMA (Mixed Compounds)	1	0.0%
	Methamphetamine	10	0.4%
	Methylenedioxypyrovalerone	1	0.0%
	Methyphenidate	0	0.0%
	Phencyclidine	7	0.3%
	Phentermine	1	0.0%
	Pyrovalerone	4	0.2%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED		**2270**	**100.0%**

Table 5.8 Total Number and Rate of OCME Drug/Poison Deaths by Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	2	6.0
Albemarle County	5	4.9
Alexandria City	15	10.1
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	1	3.1
Appomattox County	1	6.6
Arlington County	12	5.3
Augusta County	9	12.2
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	13	18.6
Bland County	1	14.8
Botetourt County	3	9.1
Bristol City	0	0.0
Brunswick County	2	11.8
Buchanan County	7	29.7
Buckingham County	3	17.5
Buena Vista City	0	0.0
Campbell County	7	12.7
Caroline County	4	13.7
Carroll County	0	0.0
Charles City County	3	42.1
Charlotte County	2	16.3
Charlottesville City	5	11.3
Chesapeake City	30	13.0
Chesterfield County	33	10.1
Clarke County	0	0.0
Colonial Heights City	3	17.0
Covington City	2	34.4
Craig County	0	0.0
Culpeper County	13	26.8
Cumberland County	2	20.3
Danville City	6	14.0
Dickenson County	6	38.7
Dinwiddie County	3	10.8

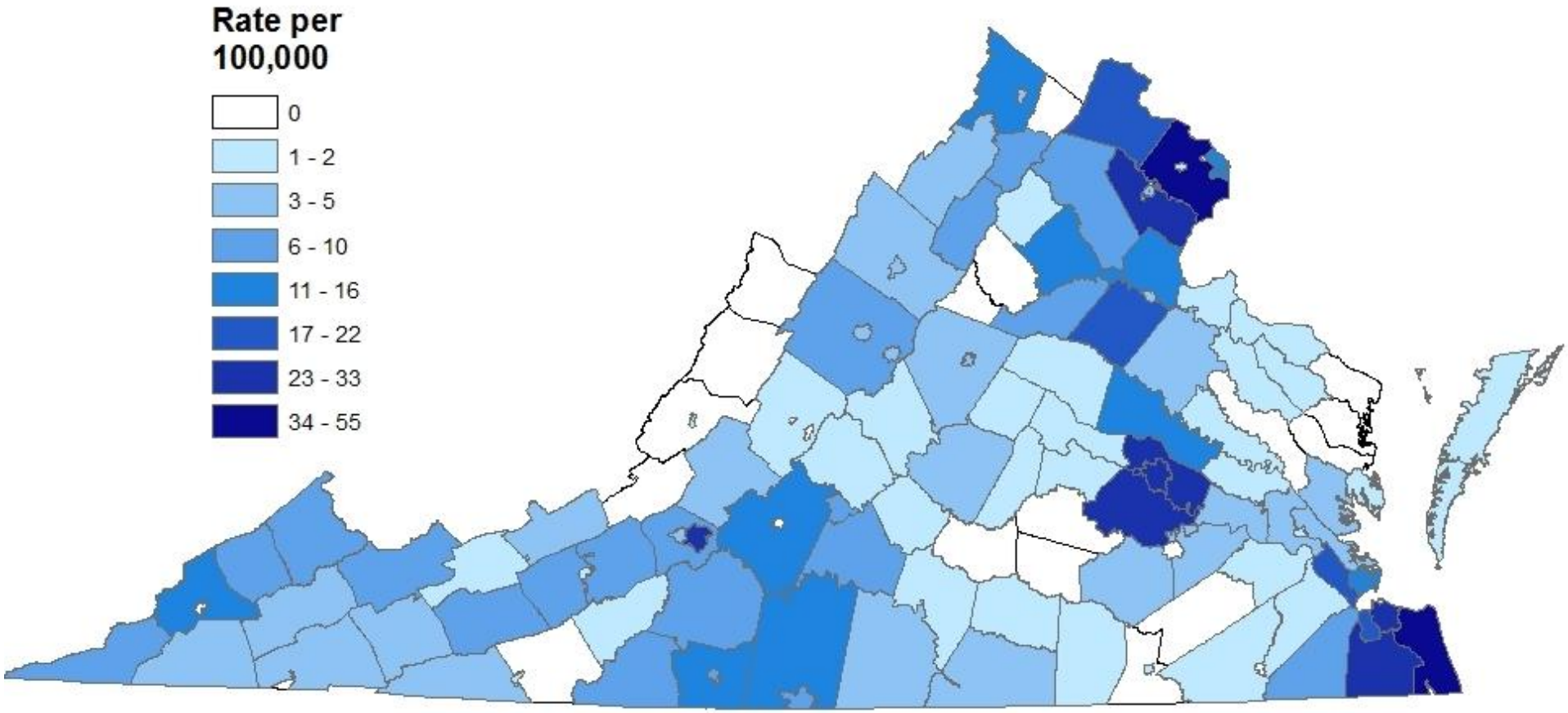
County/City of Residence	Total	Rate
Emporia City	2	35.8
Essex County	1	8.9
Fairfax City	2	8.3
Fairfax County	50	4.4
Falls Church City	0	0.0
Fauquier County	6	8.9
Floyd County	2	12.9
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	6	10.7
Frederick County	16	19.7
Fredericksburg City	4	14.2
Galax City	2	28.4
Giles County	4	23.6
Gloucester County	4	10.9
Goochland County	1	4.6
Grayson County	3	19.8
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	3	8.5
Hampton City	16	11.7
Hanover County	13	12.8
Harrisonburg City	5	9.7
Henrico County	30	9.4
Henry County	12	22.8
Highland County	0	0.0
Hopewell City	4	18.0
Isle of Wight County	2	5.6
James City County	3	4.3
King and Queen County	0	0.0
King George County	2	8.0
King William County	2	12.4
Lancaster County	0	0.0
Lee County	7	27.8
Lexington City	0	0.0
Loudoun County	21	6.0

County/City of Residence	Total	Rate
Louisa County	2	5.9
Lunenburg County	2	16.0
Lynchburg City	6	7.7
Madison County	0	0.0
Manassas City	5	12.0
Manassas Park City	0	0.0
Martinsville City	8	58.2
Mathews County	1	11.2
Mecklenburg County	3	9.5
Middlesex County	0	0.0
Montgomery County	6	6.2
Nelson County	1	6.8
New Kent County	2	10.3
Newport News City	22	12.1
Norfolk City	33	13.4
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	10	28.8
Page County	6	25.2
Patrick County	6	32.7
Petersburg City	0	0.0
Pittsylvania County	13	20.8
Poquoson City	3	24.8
Portsmouth City	19	19.7
Powhatan County	1	3.5
Prince Edward County	0	0.0
Prince George County	4	10.7
Prince William County	28	6.4
Pulaski County	7	20.3
Radford City	1	5.8
Rappahannock County	1	13.4
Richmond City	31	14.5
Richmond County	1	11.2
Roanoke City	26	26.4
Roanoke County	8	8.6

County/City of Residence	Total	Rate
Rockbridge County	1	4.5
Rockingham County	3	3.9
Russell County	4	14.2
Salem City	4	15.8
Scott County	4	17.7
Shenandoah County	5	11.7
Smyth County	4	12.6
Southampton County	2	11.0
Spotsylvania County	20	15.7
Stafford County	15	11.0
Staunton City	3	12.3
Suffolk City	7	8.2
Surry County	1	14.8
Sussex County	0	0.0
Tazewell County	8	18.1
Virginia Beach City	55	12.3
Warren County	7	18.1
Washington County	3	5.5
Waynesboro City	4	18.8
Westmoreland County	2	11.4
Williamsburg City	2	13.2
Winchester City	3	11.0
Wise County	12	29.6
Wythe County	6	20.4
York County	5	7.5
Subtotal (in state)	**855**	**10.4**
Out of State	54	ND
Unknown	3	ND
Subtotal (out of state)	**57**	**ND**
TOTAL	**912**	**11.0**

Note: No denominator is represented by ND

Map 5.1 Total Number of OCME Drug/Poison Deaths by Locality of Residence, 2013



Map 5.2 Rates of OCME Drug/Poison Deaths by Locality of Residence, 2013

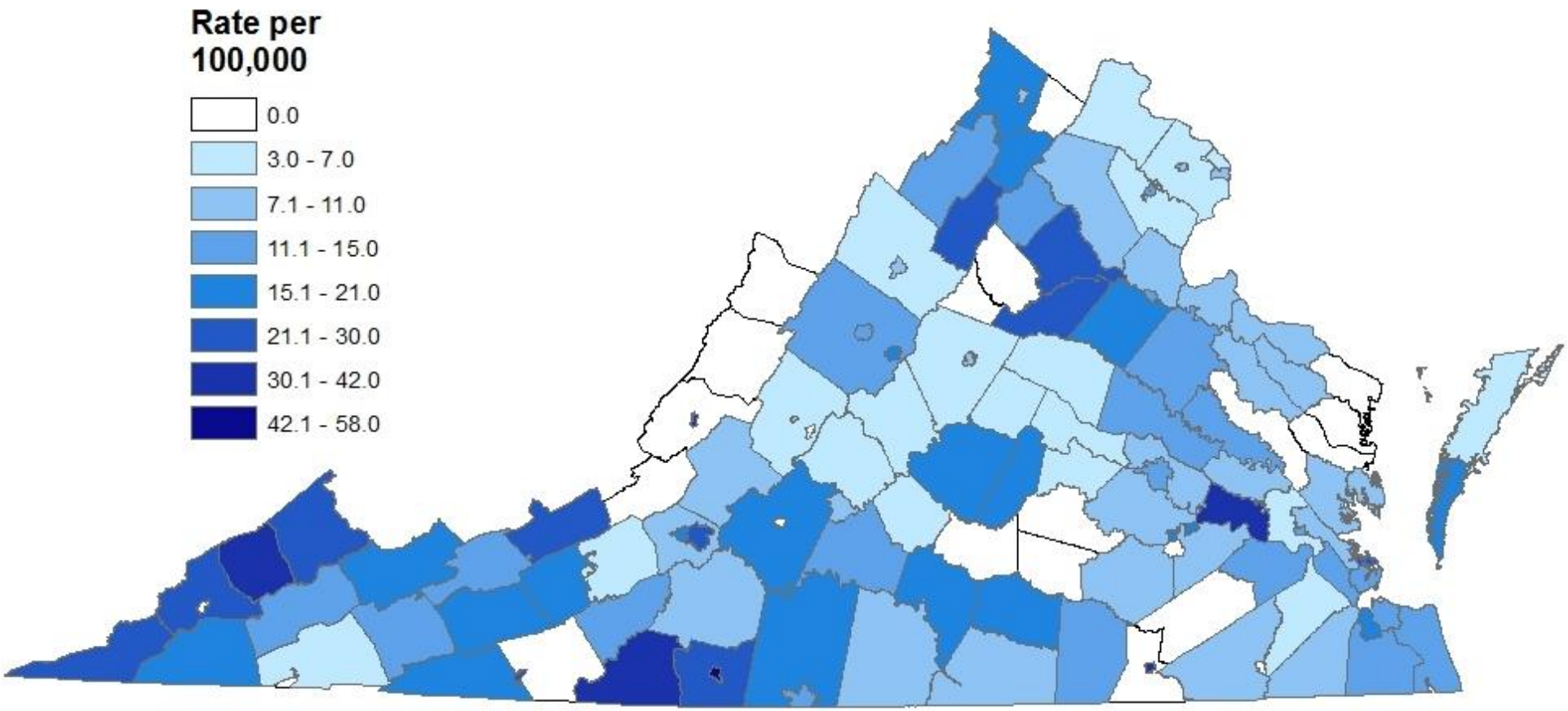


Table 5.9 Total Number and Rate of OCME Drug/Poison Deaths by Locality of Injury, 2013

County/City of Injury	Total	Rate
Accomack County	2	6.0
Albemarle County	5	4.9
Alexandria City	18	12.1
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.6
Arlington County	13	5.8
Augusta County	9	12.2
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	11	15.8
Bland County	1	14.8
Botetourt County	3	9.1
Bristol City	0	0.0
Brunswick County	2	11.8
Buchanan County	7	29.7
Buckingham County	3	17.5
Buena Vista City	0	0.0
Campbell County	5	9.1
Caroline County	2	6.8
Carroll County	1	3.3
Charles City County	3	42.1
Charlotte County	2	16.3
Charlottesville City	6	13.5
Chesapeake City	34	14.7
Chesterfield County	30	9.2
Clarke County	0	0.0
Colonial Heights City	3	17.0
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	11	22.7
Cumberland County	2	20.3
Danville City	8	18.6
Dickenson County	6	38.7
Dinwiddie County	3	10.8

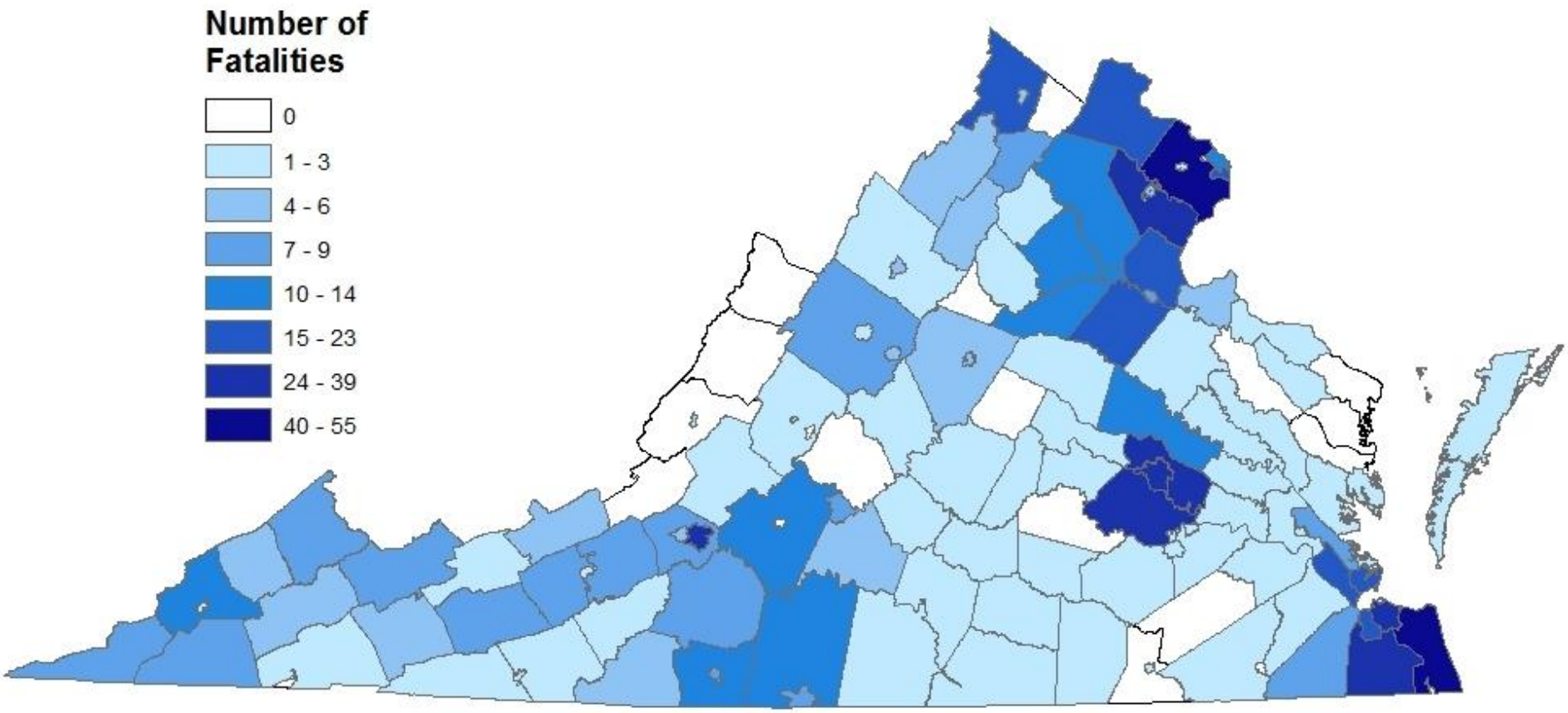
County/City of Injury	Total	Rate
Emporia City	2	35.8
Essex County	0	0.0
Fairfax City	3	12.5
Fairfax County	55	4.9
Falls Church City	0	0.0
Fauquier County	11	16.4
Floyd County	2	12.9
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	7	12.4
Frederick County	19	23.4
Fredericksburg City	7	24.9
Galax City	2	28.4
Giles County	4	23.6
Gloucester County	3	8.1
Goochland County	1	4.6
Grayson County	3	19.8
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	3	8.5
Hampton City	18	13.2
Hanover County	14	13.8
Harrisonburg City	5	9.7
Henrico County	29	9.1
Henry County	11	20.9
Highland County	0	0.0
Hopewell City	3	13.5
Isle of Wight County	1	2.8
James City County	1	1.4
King and Queen County	1	14.0
King George County	4	16.0
King William County	1	6.2
Lancaster County	0	0.0
Lee County	7	27.8
Lexington City	0	0.0
Loudoun County	22	6.3

County/City of Injury	Total	Rate
Louisa County	3	8.8
Lunenburg County	2	16.0
Lynchburg City	9	11.5
Madison County	1	7.6
Manassas City	4	9.6
Manassas Park City	0	0.0
Martinsville City	8	58.2
Mathews County	1	11.2
Mecklenburg County	3	9.5
Middlesex County	0	0.0
Montgomery County	9	9.4
Nelson County	2	13.5
New Kent County	1	5.1
Newport News City	19	10.4
Norfolk City	39	15.8
Northampton County	1	8.2
Northumberland County	0	0.0
Norton City	1	24.9
Nottoway County	1	6.3
Orange County	11	31.7
Page County	5	21.0
Patrick County	6	32.7
Petersburg City	2	6.1
Pittsylvania County	10	16.0
Poquoson City	3	24.8
Portsmouth City	23	23.9
Powhatan County	1	3.5
Prince Edward County	1	4.4
Prince George County	2	5.4
Prince William County	28	6.4
Pulaski County	7	20.3
Radford City	2	11.6
Rappahannock County	1	13.4
Richmond City	38	17.7
Richmond County	1	11.2
Roanoke City	28	28.4
Roanoke County	8	8.6

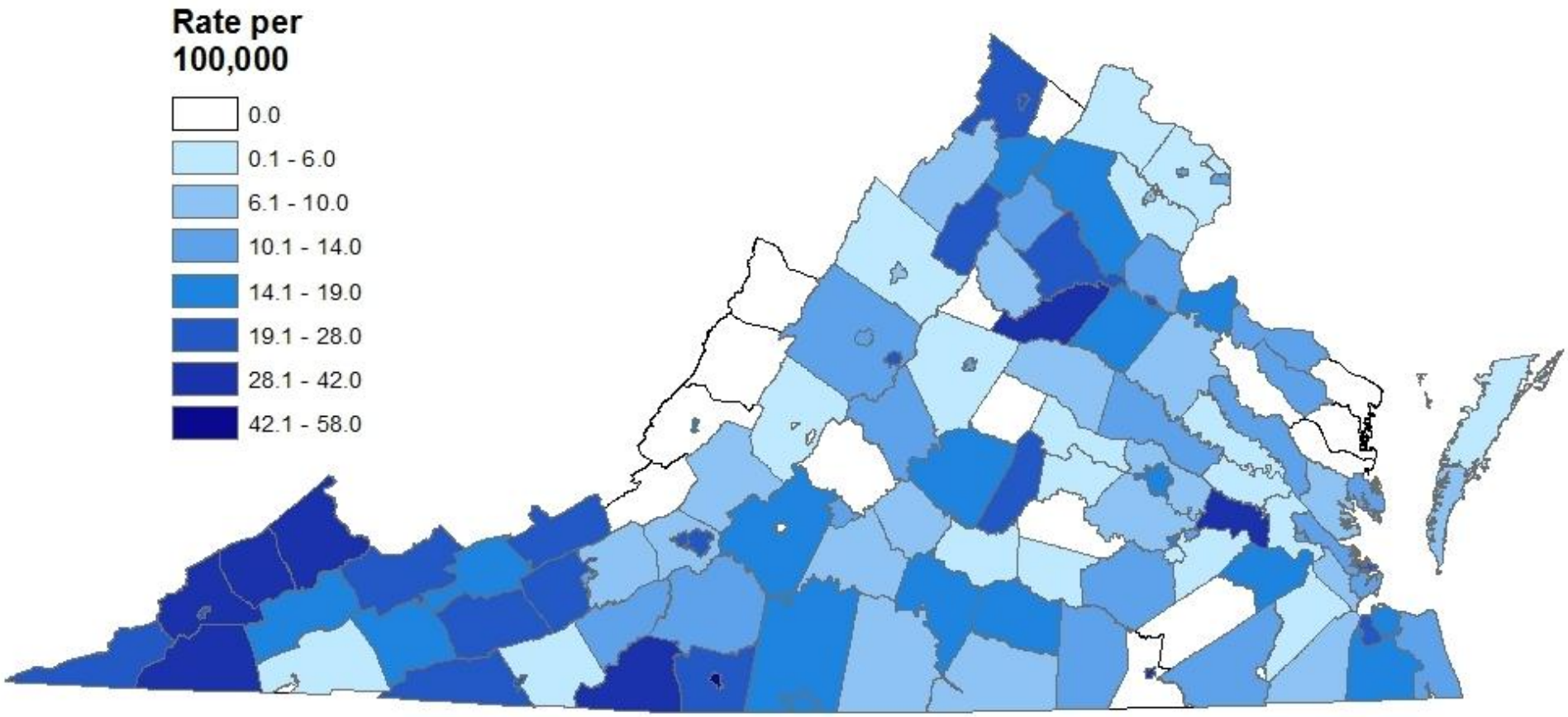
County/City of Injury	Total	Rate
Rockbridge County	1	4.5
Rockingham County	2	2.6
Russell County	5	17.7
Salem City	5	19.8
Scott County	7	30.9
Shenandoah County	4	9.4
Smyth County	5	15.8
Southampton County	2	11.0
Spotsylvania County	19	14.9
Stafford County	16	11.7
Staunton City	3	12.3
Suffolk City	8	9.3
Surry County	1	14.8
Sussex County	0	0.0
Tazewell County	9	20.4
Virginia Beach City	50	11.1
Warren County	7	18.1
Washington County	3	5.5
Waynesboro City	5	23.5
Westmoreland County	2	11.4
Williamsburg City	2	13.2
Winchester City	6	22.0
Wise County	12	29.6
Wythe County	7	23.9
York County	9	13.6
Subtotal (in state)	**902**	**10.9**
Out of State	8	ND
Unknown	2	ND
Subtotal (out of state)	**10**	**ND**
TOTAL	**912**	**11.0**

Note: No denominator is represented by ND

Map 5.3 Total Number of OCME Drug/Poison Deaths by Locality of Injury, 2013



Map 5.4 Rates of OCME Drug/Poison Deaths by Locality of Injury, 2013



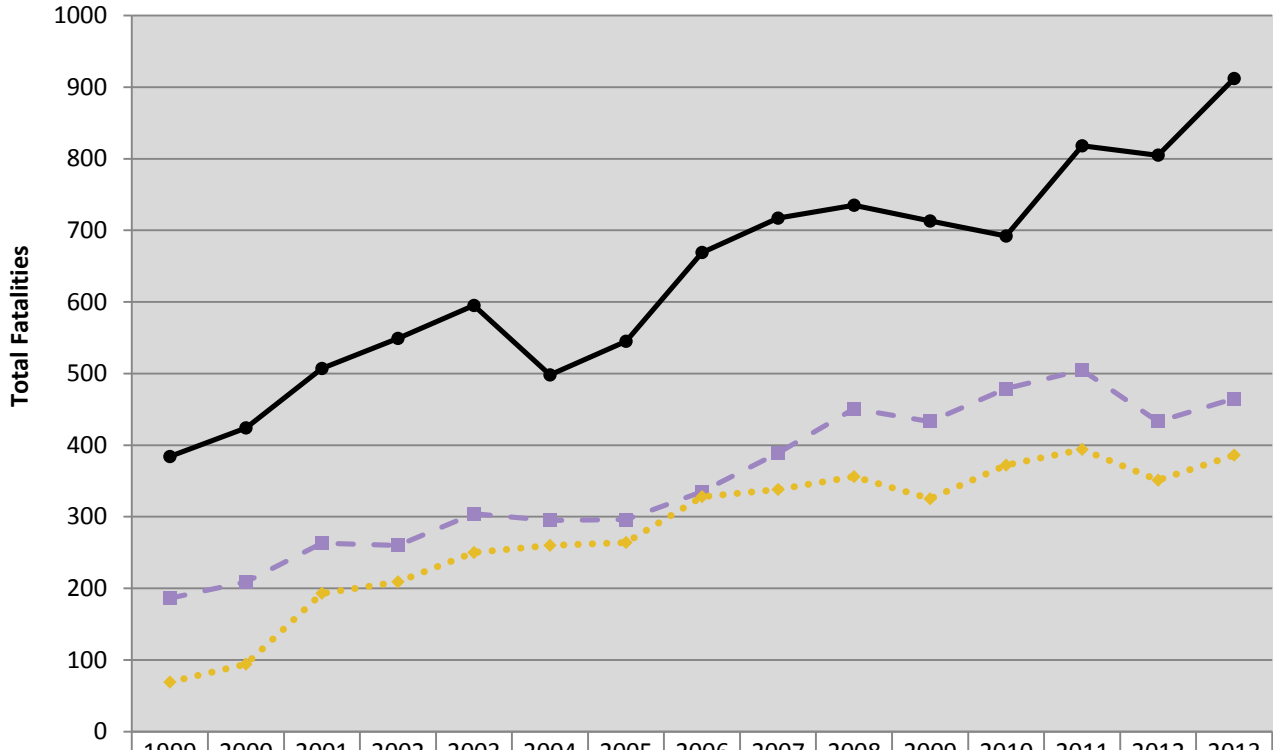
FENTANYL, HYDROCODONE, METHADONE, AND OXYCODONE DEATHS (N=386)

Prescription drug deaths are significant causes of injury and death in Virginia accounting for at least 42.3% of all drug/poison deaths. Fentanyl, hydrocodone, methadone, and oxycodone (FHMO) were found to be partly or wholly responsible for 42.3% of drug only deaths. Nearly fifty-five percent of FHMO deaths were male and 89.6% were white

- Once again, oxycodone was the most commonly used FHMO resulting in death ; this even with the reformulation of Oxycontin®
- The western portion of the state had 33.9% of all the FHMO cases in Virginia

NOTE: The FHMO tables and figures represent drug/poison deaths in which one or a combination of the FHMO drugs caused or contributed to death; but other drugs/poisons may also have caused death.

Figure 5.12 OCME FHMO, Prescription Drug, and Total Drug/Poison Deaths by Year, 1999-2013



	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All Drugs/Poisons	384	424	507	549	595	498	545	669	717	735	713	692	818	805	912
Prescription Drugs	186	209	263	260	304	295	296	335	389	451	433	479	505	433	465
FHMO	69	94	193	209	250	260	264	328	338	356	325	372	394	351	386

Year

Table 5.10 Total Number of OCME Drug/Poison Deaths by FHMO Combination, 2013

FHMO Combination	Total
Fentanyl	**77**
Fentanyl and Hydrocodone	**4**
Fentanyl, Hydrocodone, and Methadone	**1**
Fentanyl, Hydrocodone, and Oxycodone	**1**
Fentanyl and Methadone	**5**
Fentanyl, Methadone, and Oxycodone	**1**
Fentanyl and Oxycodone	**13**
Hydrocodone	**45**
Hydrocodone and Methadone	**3**
Hydrocodone, Methadone, and Oxycodone	**1**
Hydrocodone and Oxycodone	**14**
Methadone	**71**
Methadone and Oxycodone	**22**
Oxycodone	**128**
Total FHMO Deaths	**386**
Non-FHMO Drug/Poison Combinations	**526**
TOTAL DRUG/POISON DEATHS	**912**

Table 5.11 Total Number of OCME Drug/Poison Deaths by FHMO Combination and District, 2013

FHMO Combination	Central	Northern	Tidewater	Western	Total
Fentanyl	13	15	26	23	**77**
Fentanyl and Hydrocodone	0	2	0	2	**4**
Fentanyl, Hydrocodone, and Methadone	0	0	1	0	**1**
Fentanyl, Hydrocodone, and Oxycodone	0	0	0	1	**1**
Fentanyl and Methadone	0	2	2	1	**5**
Fentanyl, Methadone, and Oxycodone	0	0	0	1	**1**
Fentanyl and Oxycodone	1	4	1	7	**13**
Hydrocodone	2	11	13	19	**45**
Hydrocodone and Methadone	2	0	0	1	**3**
Hydrocodone, Methadone, and Oxycodone	0	0	1	0	**1**
Hydrocodone and Oxycodone	2	5	1	6	**14**
Methadone	26	15	14	16	**71**
Methadone and Oxycodone	3	6	8	5	**22**
Oxycodone	31	33	15	49	**128**
TOTAL FHMO DRUG/POISON DEATHS	**80**	**93**	**82**	**131**	**386**

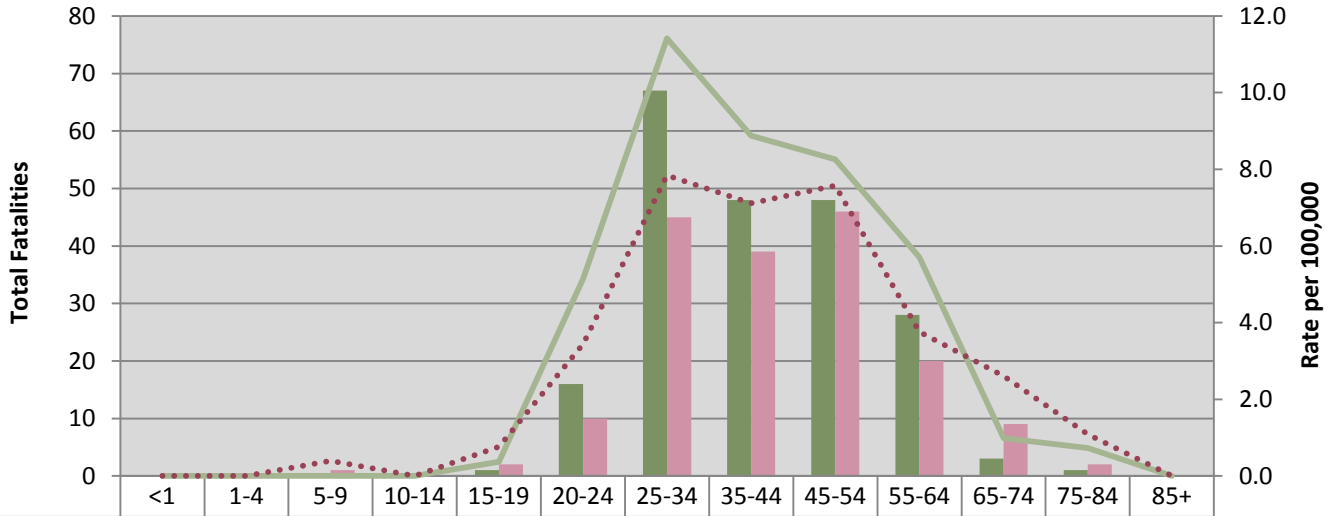
Table 5.12 Total Number of OCME Drug/Poison Deaths by FHMO Combination and Race/Ethnicity, 2013

FHMO Combination	Asian	Black	Hispanic	Other	White	Total
Fentanyl	0	8	2	1	66	**77**
Fentanyl and Hydrocodone	0	0	0	0	4	**4**
Fentanyl, Hydrocodone, and Methadone	0	0	0	0	1	**1**
Fentanyl, Hydrocodone, and Oxycodone	0	1	0	0	0	**1**
Fentanyl and Methadone	0	0	0	0	5	**5**
Fentanyl, Methadone, and Oxycodone	0	0	0	0	1	**1**
Fentanyl and Oxycodone	1	1	0	0	11	**13**
Hydrocodone	0	2	1	2	40	**45**
Hydrocodone and Methadone	0	1	0	0	2	**3**
Hydrocodone, Methadone, and Oxycodone	0	0	0	0	1	**1**
Hydrocodone and Oxycodone	0	2	0	0	12	**14**
Methadone	1	6	0	0	64	**71**
Methadone and Oxycodone	0	1	0	0	21	**22**
Oxycodone	0	8	1	1	118	**128**
TOTAL FHMO DRUG/POISON DEATHS	**2**	**30**	**4**	**4**	**346**	**386**

Table 5.13 Total Number of OCME Drug/Poison Deaths by FHMO Combination and Gender, 2013

FHMO Combination	Female	Male	Total
Fentanyl	27	50	**77**
Fentanyl and Hydrocodone	3	1	**4**
Fentanyl, Hydrocodone, and Methadone	0	1	**1**
Fentanyl, Hydrocodone, and Oxycodone	1	0	**1**
Fentanyl and Methadone	1	4	**5**
Fentanyl, Methadone, and Oxycodone	0	1	**1**
Fentanyl and Oxycodone	5	8	**13**
Hydrocodone	22	23	**45**
Hydrocodone and Methadone	3	0	**3**
Hydrocodone, Methadone, and Oxycodone	1	0	**1**
Hydrocodone and Oxycodone	7	7	**14**
Methadone	31	40	**71**
Methadone and Oxycodone	8	14	**22**
Oxycodone	65	63	**128**
TOTAL FHMO DRUG/POISON DEATHS	**174**	**212**	**386**

Figure 5.13 Total Number and Rate of OCME FHMO Combination Deaths by Age Group, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	0	0	0	0	1	16	67	48	48	28	3	1	0
Female	0	0	1	0	2	10	45	39	46	20	9	2	0
Male Rate	0.0	0.0	0.0	0.0	0.4	5.1	11.4	8.9	8.3	5.7	1.0	0.7	0.0
Female Rate	0.0	0.0	0.4	0.0	0.8	3.4	7.8	7.1	7.6	3.8	2.6	1.1	0.0

Age Group (years)

Table 5.14 Total Number of OCME Drug/Poison Deaths by FHMO Combination and Whether Alcohol Caused Death, 2013

	Whether Alcohol Caused Death			
FHMO Combination	**Yes**	**No**	**Contributed**	**Total**
Fentanyl	15	62	0	**77**
Fentanyl and Hydrocodone	0	4	0	**4**
Fentanyl, Hydrocodone, and Methadone	0	1	0	**1**
Fentanyl, Hydrocodone, and Oxycodone	0	1	0	**1**
Fentanyl and Methadone	0	5	0	**5**
Fentanyl, Methadone, and Oxycodone	0	1	0	**1**
Fentanyl and Oxycodone	1	12	0	**13**
Hydrocodone	6	37	2	**45**
Hydrocodone and Methadone	1	2	0	**3**
Hydrocodone, Methadone, and Oxycodone	0	1	0	**1**
Hydrocodone and Oxycodone	0	14	0	**14**
Methadone	11	59	1	**71**
Methadone and Oxycodone	1	21	0	**22**
Oxycodone	20	106	2	**128**
TOTAL FHMO DRUG/POISON DEATHS	**55**	**326**	**5**	**386**

Note: This table represents FHMO deaths in addition to whether alcohol caused, contributed, or didn't play a role (or was not detected) in the death.

Table 5.15 Total Number of OCME Drug/Poison Deaths by FHMO Combination and Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	0	0.0
Albemarle County	3	2.9
Alexandria City	8	5.4
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.6
Arlington County	2	0.9
Augusta County	6	8.1
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	7	10.0
Bland County	1	14.8
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	5	21.2
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	5	9.1
Caroline County	1	3.4
Carroll County	0	0.0
Charles City County	2	28.1
Charlotte County	2	16.3
Charlottesville City	0	0.0
Chesapeake City	16	6.9
Chesterfield County	9	2.7
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	4	8.2
Cumberland County	2	20.3
Danville City	3	7.0
Dickenson County	4	25.8

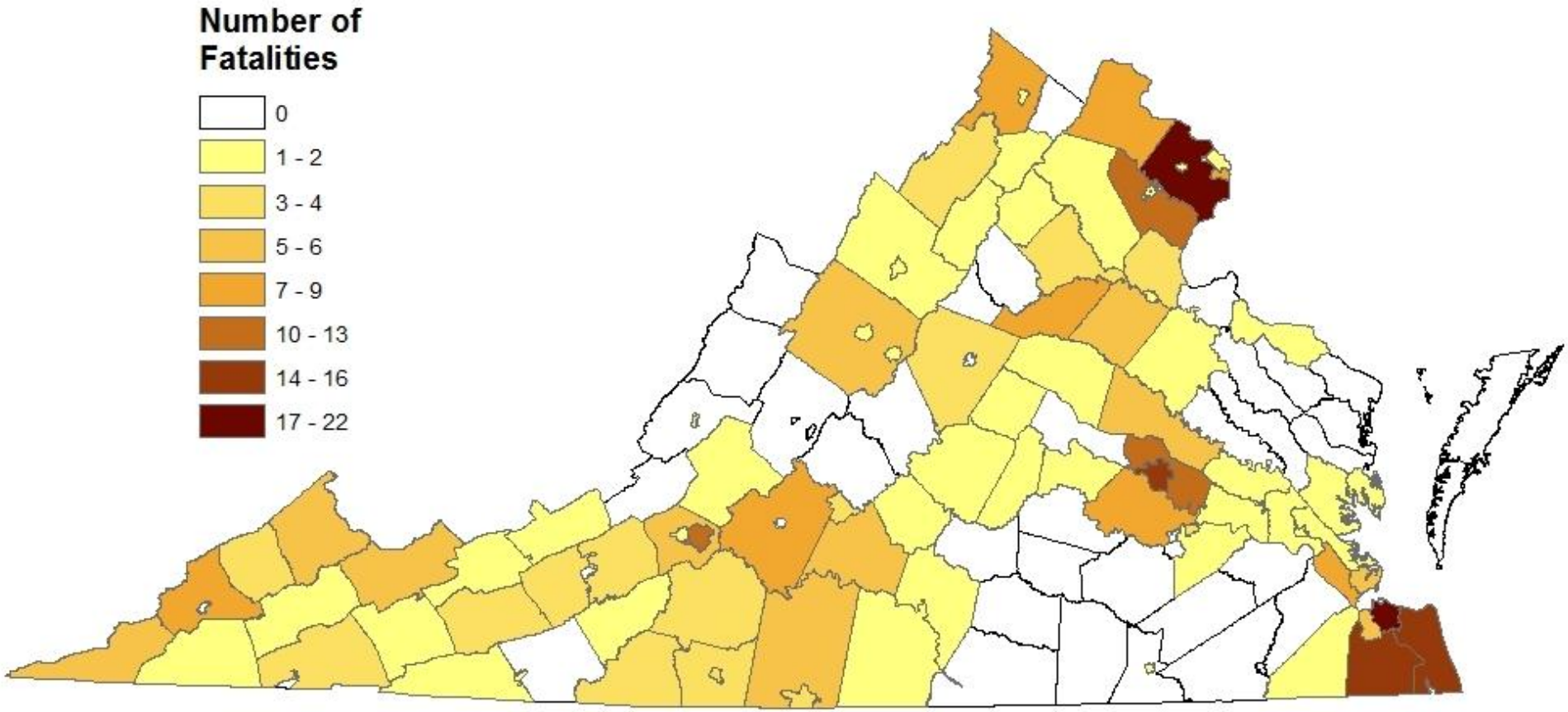
County/City of Residence	Total	Rate
Dinwiddie County	0	0.0
Emporia City	1	17.9
Essex County	0	0.0
Fairfax City	1	4.2
Fairfax County	21	1.9
Falls Church City	0	0.0
Fauquier County	2	3.0
Floyd County	1	6.4
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	4	7.1
Frederick County	8	9.8
Fredericksburg City	1	3.6
Galax City	1	14.2
Giles County	1	5.9
Gloucester County	2	5.4
Goochland County	0	0.0
Grayson County	2	13.2
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	2	5.6
Hampton City	5	3.7
Hanover County	5	4.9
Harrisonburg City	1	1.9
Henrico County	12	3.8
Henry County	4	7.6
Highland County	0	0.0
Hopewell City	4	18.0
Isle of Wight County	0	0.0
James City County	1	1.4
King and Queen County	0	0.0
King George County	0	0.0
King William County	0	0.0
Lancaster County	0	0.0
Lee County	6	23.8

County/City of Residence	Total	Rate
Lexington City	0	0.0
Loudoun County	8	2.3
Louisa County	1	2.9
Lunenburg County	0	0.0
Lynchburg City	3	3.8
Madison County	0	0.0
Manassas City	2	4.8
Manassas Park City	0	0.0
Martinsville City	3	21.8
Mathews County	1	11.2
Mecklenburg County	0	0.0
Middlesex County	0	0.0
Montgomery County	4	4.2
Nelson County	0	0.0
New Kent County	1	5.1
Newport News City	9	4.9
Norfolk City	22	8.9
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	7	20.2
Page County	1	4.2
Patrick County	3	16.3
Petersburg City	0	0.0
Pittsylvania County	6	9.6
Poquoson City	1	8.3
Portsmouth City	6	6.2
Powhatan County	1	3.5
Prince Edward County	0	0.0
Prince George County	1	2.7
Prince William County	13	3.0
Pulaski County	4	11.6
Radford City	0	0.0
Rappahannock County	1	13.4
Richmond City	14	6.5
Richmond County	0	0.0

County/City of Residence	Total	Rate
Roanoke City	11	11.2
Roanoke County	5	5.3
Rockbridge County	0	0.0
Rockingham County	2	2.6
Russell County	2	7.1
Salem City	2	7.9
Scott County	2	8.8
Shenandoah County	4	9.4
Smyth County	2	6.3
Southampton County	0	0.0
Spotsylvania County	5	3.9
Stafford County	3	2.2
Staunton City	1	4.1
Suffolk City	1	1.2
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	5	11.3
Virginia Beach City	15	3.3
Warren County	2	5.2
Washington County	3	5.5
Waynesboro City	2	9.4
Westmoreland County	1	5.7
Williamsburg City	1	6.6
Winchester City	1	3.7
Wise County	7	17.2
Wythe County	3	10.2
York County	1	1.5
Subtotal (in state)	**363**	**4.4**
Out of State	22	ND
Unknown	1	ND
Subtotal (out of state)	**23**	**ND**
TOTAL	**386**	**4.7**

Note: No denominator is represented by ND

Map 5.5 Total Number of OCME FHMO Deaths by Locality of Residence, 2013



Map 5.6 Rates of OCME FHMO Deaths by Locality of Residence, 2013

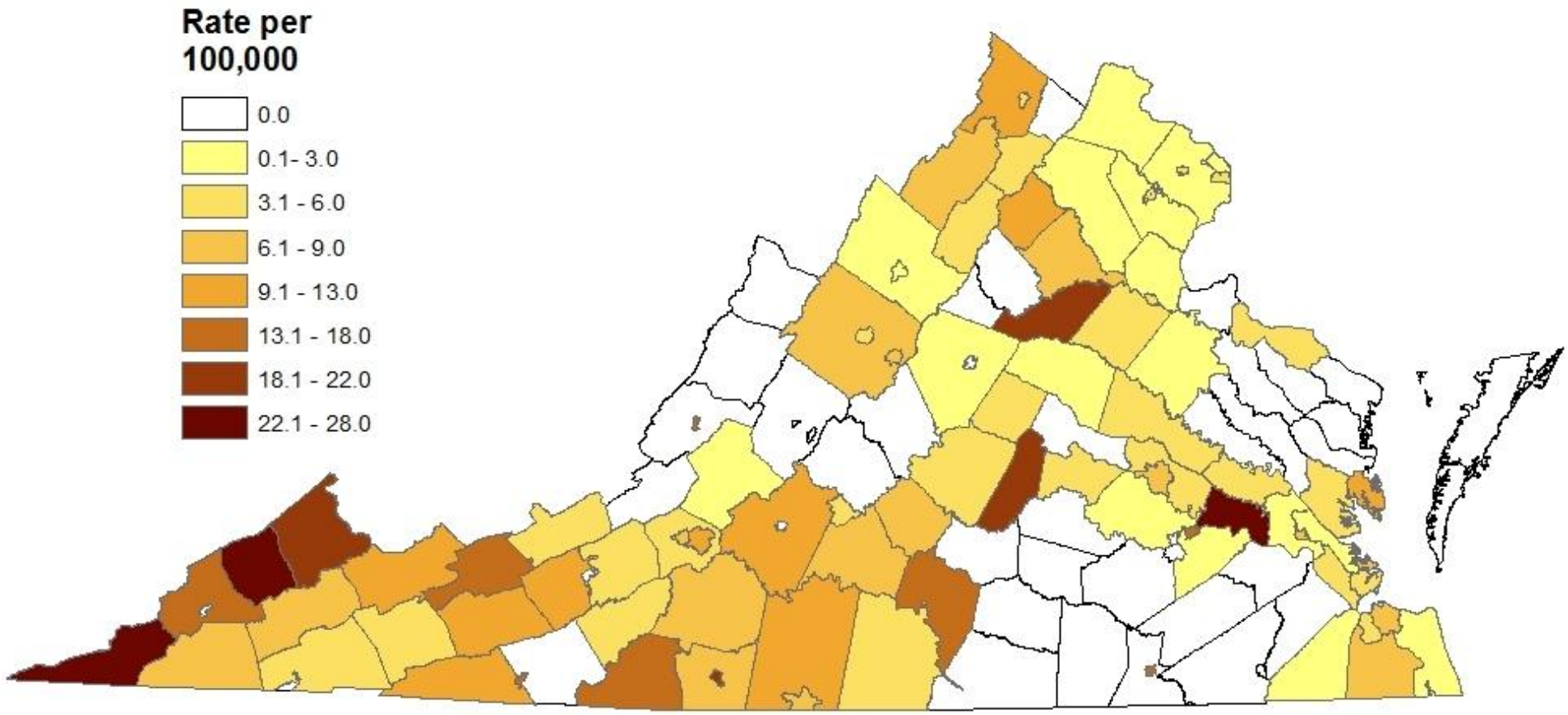


Table 5.16 Total Number of OCME Drug/Poison Deaths by FHMO Combination and Locality of Injury, 2013

County/City of Injury	Total	Rate
Accomack County	0	0.0
Albemarle County	4	3.9
Alexandria City	11	7.4
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	1	6.6
Arlington County	3	1.3
Augusta County	6	8.1
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	7	10.0
Bland County	1	14.8
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	5	21.2
Buckingham County	1	5.8
Buena Vista City	0	0.0
Campbell County	4	7.2
Caroline County	0	0.0
Carroll County	0	0.0
Charles City County	2	28.1
Charlotte County	2	16.3
Charlottesville City	0	0.0
Chesapeake City	16	6.9
Chesterfield County	8	2.4
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	4	8.2
Cumberland County	2	20.3
Danville City	4	9.3
Dickenson County	4	25.8

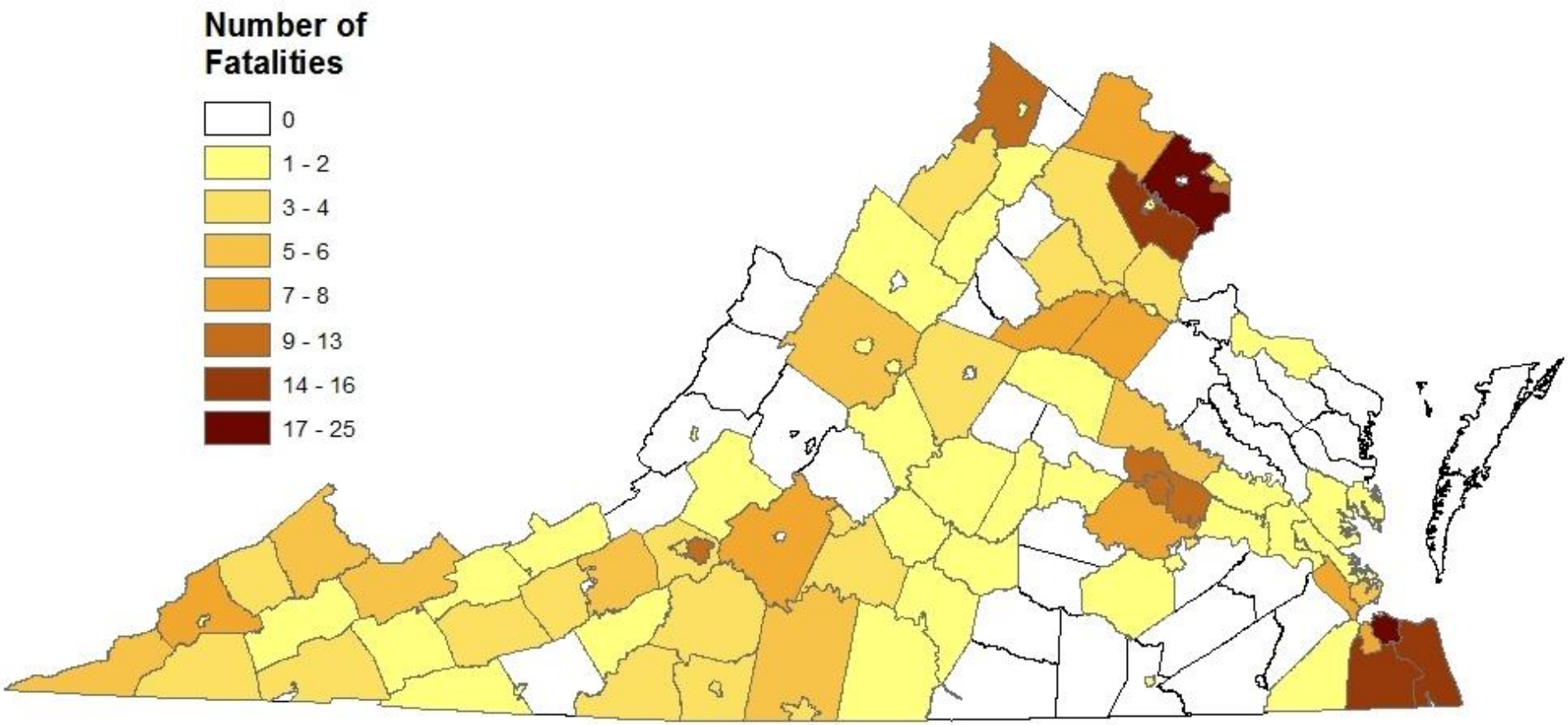
County/City of Injury	Total	Rate
Dinwiddie County	1	3.6
Emporia City	1	17.9
Essex County	0	0.0
Fairfax City	0	0.0
Fairfax County	23	2.0
Falls Church City	0	0.0
Fauquier County	4	6.0
Floyd County	1	6.4
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	4	7.1
Frederick County	10	12.3
Fredericksburg City	1	3.6
Galax City	1	14.2
Giles County	2	11.8
Gloucester County	1	2.7
Goochland County	0	0.0
Grayson County	2	13.2
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	1	2.8
Hampton City	6	4.4
Hanover County	6	5.9
Harrisonburg City	0	0.0
Henrico County	12	3.8
Henry County	4	7.6
Highland County	0	0.0
Hopewell City	3	13.5
Isle of Wight County	0	0.0
James City County	1	1.4
King and Queen County	0	0.0
King George County	0	0.0
King William County	0	0.0
Lancaster County	0	0.0
Lee County	6	23.8

County/City of Injury	Total	Rate
Lexington City	0	0.0
Loudoun County	7	2.0
Louisa County	1	2.9
Lunenburg County	0	0.0
Lynchburg City	4	5.1
Madison County	0	0.0
Manassas City	1	2.4
Manassas Park City	0	0.0
Martinsville City	3	21.8
Mathews County	1	11.2
Mecklenburg County	0	0.0
Middlesex County	0	0.0
Montgomery County	6	6.2
Nelson County	1	6.8
New Kent County	1	5.1
Newport News City	7	3.8
Norfolk City	25	10.2
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	1	24.9
Nottoway County	0	0.0
Orange County	7	20.2
Page County	1	4.2
Patrick County	3	16.3
Petersburg City	1	3.1
Pittsylvania County	5	8.0
Poquoson City	1	8.3
Portsmouth City	8	8.3
Powhatan County	1	3.5
Prince Edward County	1	4.4
Prince George County	0	0.0
Prince William County	14	3.2
Pulaski County	4	11.6
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	13	6.1
Richmond County	0	0.0

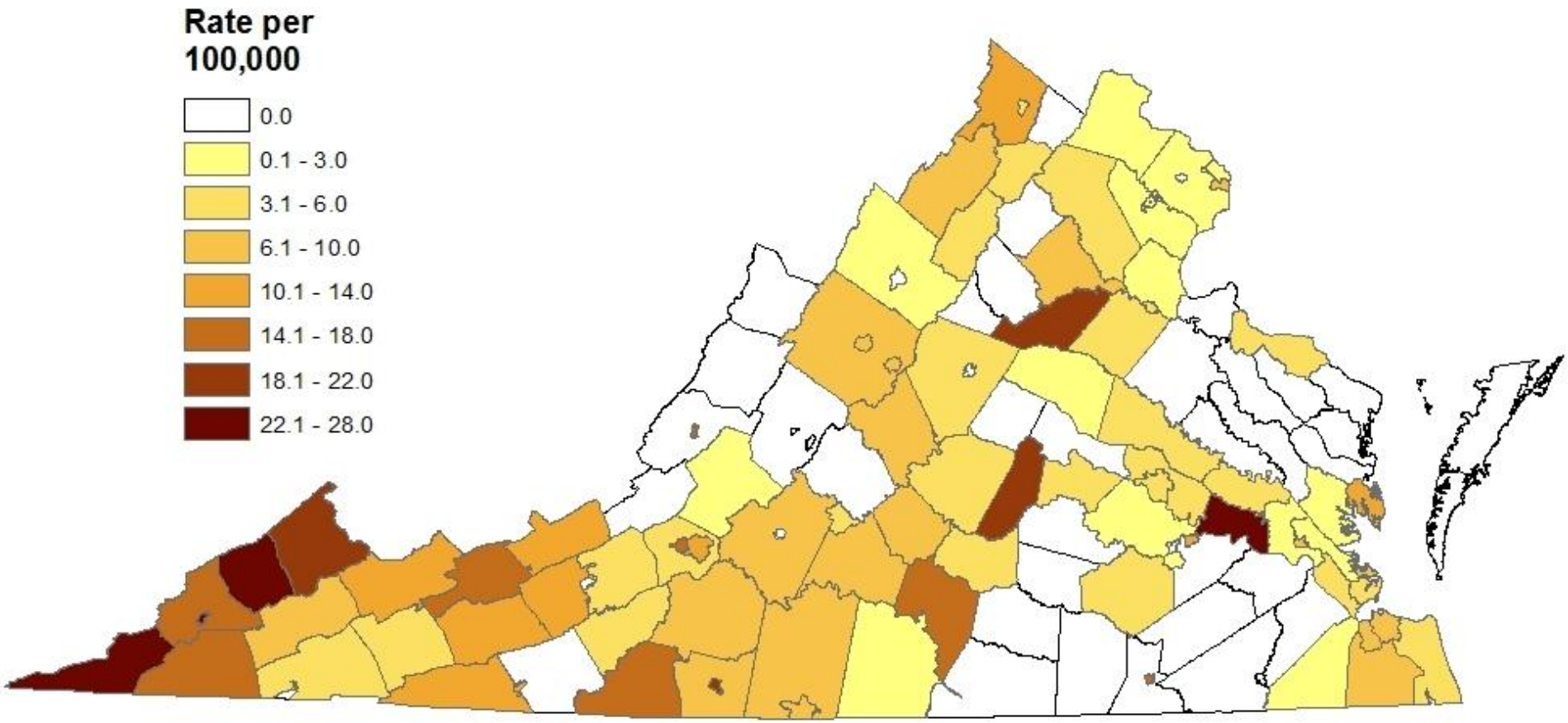
County/City of Injury	Total	Rate
Roanoke City	11	11.2
Roanoke County	4	4.3
Rockbridge County	0	0.0
Rockingham County	1	1.3
Russell County	2	7.1
Salem City	4	15.8
Scott County	4	17.7
Shenandoah County	3	7.0
Smyth County	2	6.3
Southampton County	0	0.0
Spotsylvania County	7	5.5
Stafford County	3	2.2
Staunton City	2	8.2
Suffolk City	1	1.2
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	6	13.6
Virginia Beach City	16	3.6
Warren County	2	5.2
Washington County	3	5.5
Waynesboro City	2	9.4
Westmoreland County	1	5.7
Williamsburg City	1	6.6
Winchester City	1	3.7
Wise County	7	17.2
Wythe County	4	13.6
York County	2	3.0
Subtotal (in state)	**383**	**4.6**
Out of State	2	ND
Unknown	1	ND
Subtotal (out of state)	**3**	**ND**
TOTAL	**386**	**4.7**

Note: No denominator is represented by ND

Map 5.7 Total Number of OCME FHMO Deaths by Locality of Injury, 2013



Map 5.8 Rates of OCME FHMO Deaths by Locality of Injury, 2013



COCAINE AND HEROIN DEATHS (N=311)

Cocaine and heroin are not the only illegal drugs used in Virginia; however, they are the main compounds found in deaths by illegal drugs.

- Over 74% percent of the cases were males
- Cocaine and/or heroin were involved in 34.1% of all drug/poison cases in Virginia
- The Central and Tidewater district had the largest number of these cases with these two offices each managing 32.2% of cases.

NOTE: Cocaine and heroin tables and figures represent deaths in which one or both illegal drugs caused death; but other drugs/poisons also may have caused death.

Table 5.17 Total Number of OCME Drug/Poison Deaths by Cocaine and Heroin Combination, 2013

Drug Combination	Total
Cocaine	98
Cocaine and Heroin	39
Heroin	174
Total Cocaine and/or Heroin Deaths	**311**
Non-Cocaine or Heroin Combination Deaths	601
TOTAL DRUG/POISON DEATHS	**912**

Table 5.18 Total Number of OCME Drug/Poison Deaths by Cocaine and Heroin Combination and District, 2013

	District				
Drug Combination	Central	Northern	Tidewater	Western	Total
Cocaine	22	15	31	30	**98**
Cocaine and Heroin	12	9	17	1	**39**
Heroin	66	41	52	15	**174**
TOTAL DEATHS	**100**	**65**	**100**	**46**	**311**

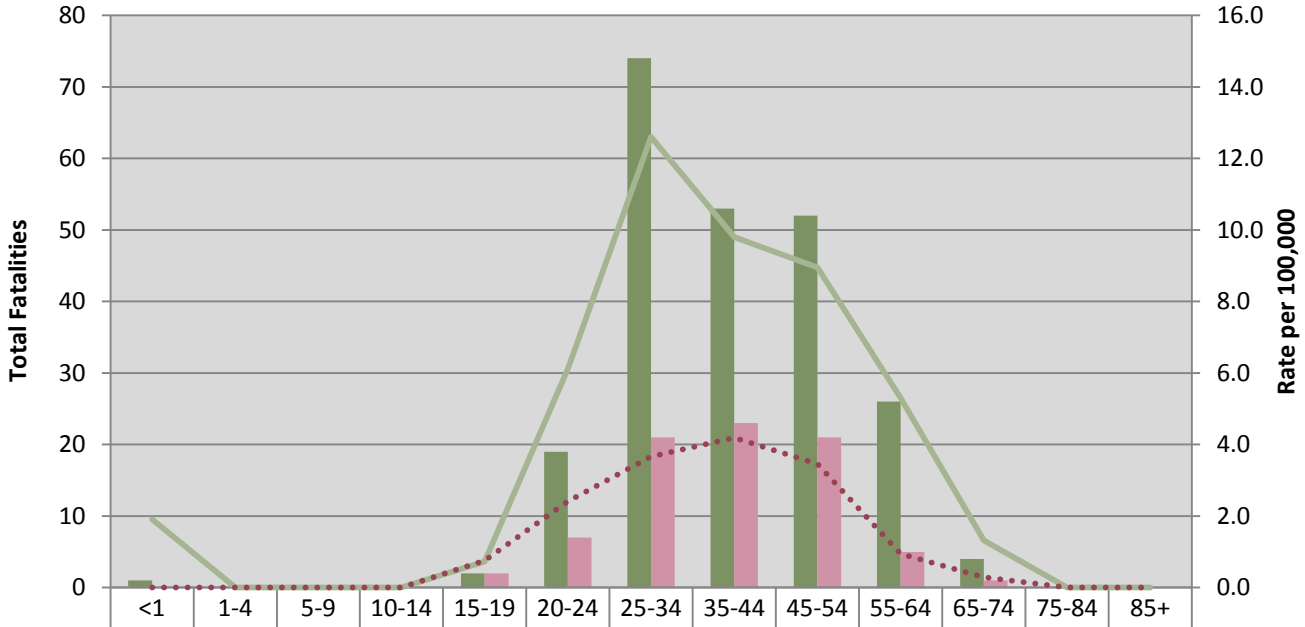
Table 5.19 Total Number of OCME Drug/Poison Deaths by Cocaine and Heroin Combination and Race/Ethnicity, 2013

	Race/Ethnicity					
Drug Combination	Asian	Black	Hispanic	Other	White	Total
Cocaine	1	38	0	1	58	**97**
Cocaine and Heroin	0	7	0	0	32	**39**
Heroin	0	23	3	0	148	**174**
TOTAL DEATHS	**1**	**68**	**3**	**1**	**238**	**310**

Table 5.20 Total Number of OCME Drug/Poison Deaths by Cocaine and Heroin Combination and Gender, 2013

	Gender		
Drug Combination	Female	Male	Total
Cocaine	32	66	**98**
Cocaine and Heroin	8	31	**39**
Heroin	40	134	**174**
TOTAL DEATHS	**80**	**231**	**311**

Figure 5.14 Total Number and Rate of OCME Cocaine and Heroin Combination Deaths by Age, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Male	1	0	0	0	2	19	74	53	52	26	4	0	0
Female	0	0	0	0	2	7	21	23	21	5	1	0	0
Male Rate	1.9	0.0	0.0	0.0	0.7	6.1	12.6	9.8	8.9	5.3	1.3	0.0	0.0
Female Rate	0.0	0.0	0.0	0.0	0.8	2.4	3.7	4.2	3.5	0.9	0.3	0.0	0.0

Age Group (years)

Table 5.21 Total Number of OCME Cocaine and Heroin Combination Deaths by Whether Alcohol Caused Death, 2013

	Whether Alcohol Caused Death			
Drug Combination	Yes	No	Contributed	Total
Cocaine	8	89	1	**98**
Cocaine and Heroin	9	30	0	**39**
Heroin	28	140	6	**174**
TOTAL DEATHS	**45**	**259**	**7**	**311**

Note: This table represents cocaine and/or heroin deaths in addition to whether alcohol caused, contributed, or didn't play a role (or was not detected) in the death.

Table 5.22 Total Number and Rate of OCME Cocaine and Heroin Combination Deaths by Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	1	3.0
Albemarle County	1	1.0
Alexandria City	3	2.0
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	2	0.9
Augusta County	0	0.0
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	4	5.7
Bland County	0	0.0
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	1	5.9
Buchanan County	0	0.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	1	1.8
Caroline County	2	6.8
Carroll County	0	0.0
Charles City County	0	0.0

County/City of Residence	Total	Rate
Charlotte County	1	8.1
Charlottesville City	3	6.8
Chesapeake City	12	5.2
Chesterfield County	13	4.0
Clarke County	0	0.0
Colonial Heights City	2	11.3
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	8	16.5
Cumberland County	0	0.0
Danville City	2	4.7
Dickenson County	0	0.0
Dinwiddie County	2	7.2
Emporia City	1	17.9
Essex County	1	8.9
Fairfax City	1	4.2
Fairfax County	15	1.3
Falls Church City	0	0.0
Fauquier County	1	1.5
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	0	0.0

County/City of Residence	Total	Rate
Frederick County	8	9.8
Fredericksburg City	3	10.7
Galax City	1	14.2
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	2	5.6
Hampton City	9	6.6
Hanover County	4	3.9
Harrisonburg City	2	3.9
Henrico County	12	3.8
Henry County	3	5.7
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	1	2.8
James City County	1	1.4
King and Queen County	0	0.0
King George County	0	0.0
King William County	1	6.2
Lancaster County	0	0.0
Lee County	1	4.0
Lexington City	0	0.0
Loudoun County	5	1.4
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	1	1.3
Madison County	0	0.0
Manassas City	0	0.0
Manassas Park City	0	0.0
Martinsville City	2	14.5
Mathews County	0	0.0
Mecklenburg County	0	0.0

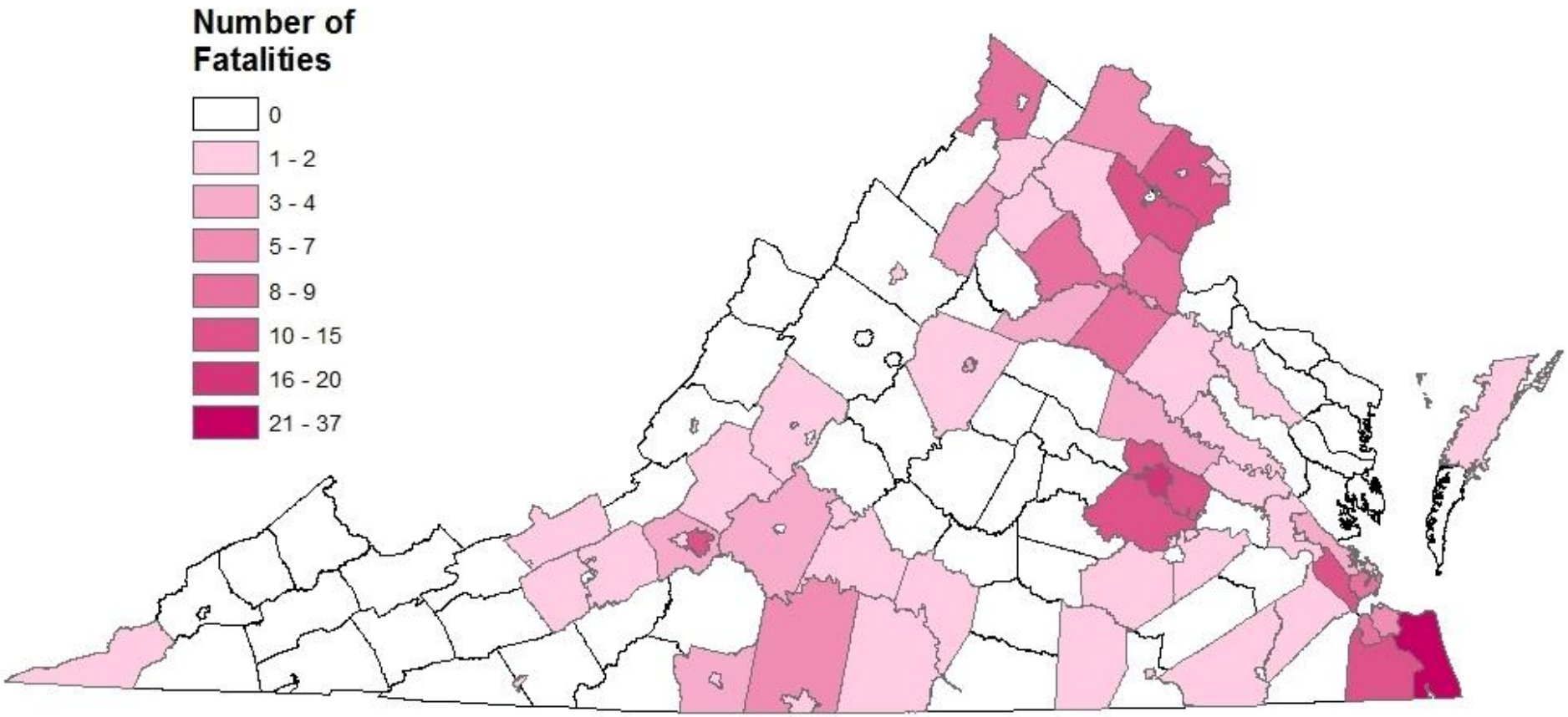
County/City of Residence	Total	Rate
Middlesex County	0	0.0
Montgomery County	2	2.1
Nelson County	0	0.0
New Kent County	1	5.1
Newport News City	11	6.0
Norfolk City	7	2.8
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	3	8.6
Page County	3	12.6
Patrick County	0	0.0
Petersburg City	0	0.0
Pittsylvania County	6	9.6
Poquoson City	1	8.3
Portsmouth City	9	9.4
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	1	2.7
Prince William County	11	2.5
Pulaski County	1	2.9
Radford City	0	0.0
Rappahannock County	1	13.4
Richmond City	20	9.3
Richmond County	0	0.0
Roanoke City	11	11.2
Roanoke County	3	3.2
Rockbridge County	1	4.5
Rockingham County	0	0.0
Russell County	0	0.0
Salem City	2	7.9
Scott County	0	0.0
Shenandoah County	0	0.0
Smyth County	0	0.0

County/City of Residence	Total	Rate
Southampton County	1	5.5
Spotsylvania County	9	7.1
Stafford County	9	6.6
Staunton City	0	0.0
Suffolk City	0	0.0
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	37	8.3
Warren County	2	5.2
Washington County	0	0.0
Waynesboro City	0	0.0

County/City of Residence	Total	Rate
Westmoreland County	0	0.0
Williamsburg City	1	6.6
Winchester City	0	0.0
Wise County	0	0.0
Wythe County	0	0.0
York County	4	6.0
Subtotal (in state)	**294**	**3.6**
Out of State	14	ND
Unknown	3	ND
Subtotal (out of state)	**17**	**ND**
TOTAL	**311**	**3.8**

Note: No denominator is represented by ND.

Map 5.9 Total Number of OCME Cocaine and/or Heroin Deaths by Locality of Residence, 2013



Map 5.10 Rates of OCME Cocaine and/or Heroin Deaths by Locality of Residence, 2013

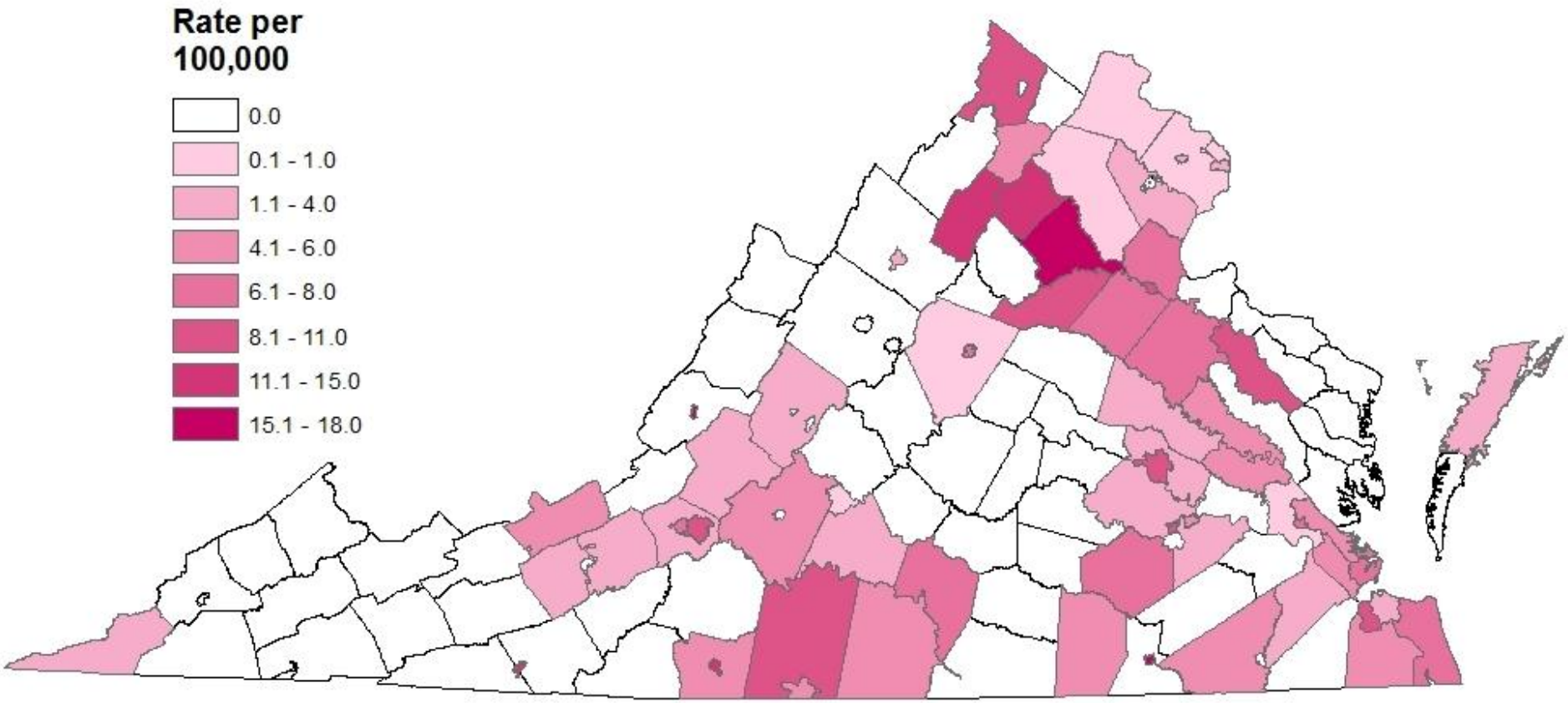


Table 5.23 Total Number and Rate of OCME Cocaine and Heroin Combination Deaths by Locality of Injury, 2013

County/City of Injury	Total	Rate
Accomack County	1	3.0
Albemarle County	0	0.0
Alexandria City	3	2.0
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	2	0.9
Augusta County	0	0.0
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	2	2.9
Bland County	0	0.0
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	1	5.9
Buchanan County	0	0.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	0	0.0
Caroline County	1	3.4
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	1	8.1
Charlottesville City	3	6.8
Chesapeake City	16	6.9
Chesterfield County	11	3.4
Clarke County	0	0.0
Colonial Heights City	2	11.3
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	12.4
Cumberland County	0	0.0
Danville City	3	7.0

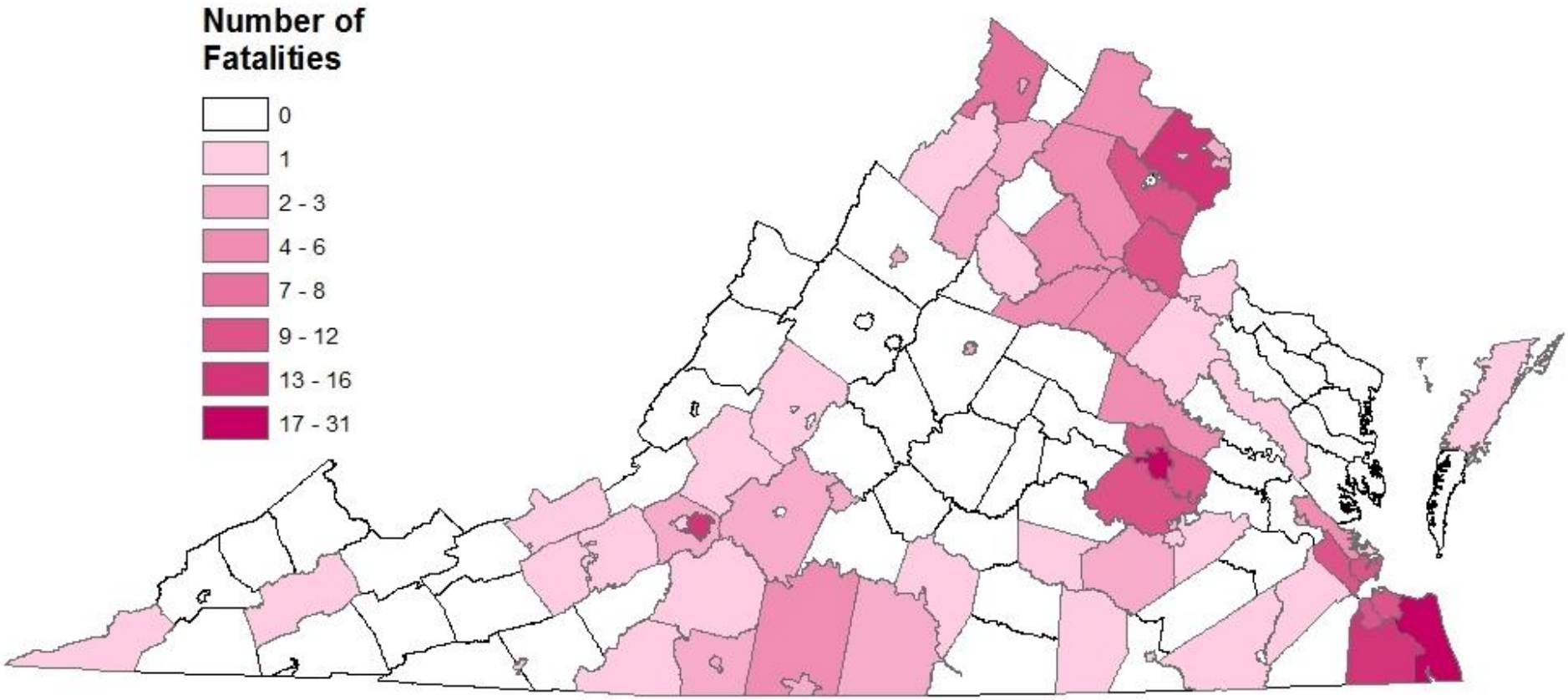
County/City of Injury	Total	Rate
Dickenson County	0	0.0
Dinwiddie County	2	7.2
Emporia City	1	17.9
Essex County	0	0.0
Fairfax City	2	8.3
Fairfax County	14	1.2
Falls Church City	0	0.0
Fauquier County	4	6.0
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	1	1.8
Frederick County	8	9.8
Fredericksburg City	5	17.8
Galax City	1	14.2
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	3	8.5
Hampton City	11	8.0
Hanover County	5	4.9
Harrisonburg City	2	3.9
Henrico County	10	3.1
Henry County	2	3.8
Highland County	0	0.0
Hopewell City	0	0.0
Isle of Wight County	1	2.8
James City County	0	0.0
King and Queen County	1	14.0
King George County	1	4.0
King William County	0	0.0

County/City of Injury	Total	Rate
Lancaster County	0	0.0
Lee County	1	4.0
Lexington City	0	0.0
Loudoun County	6	1.7
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	2	2.6
Madison County	1	7.6
Manassas City	0	0.0
Manassas Park City	0	0.0
Martinsville City	2	14.5
Mathews County	0	0.0
Mecklenburg County	0	0.0
Middlesex County	0	0.0
Montgomery County	1	1.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	10	5.5
Norfolk City	10	4.1
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.3
Orange County	5	14.4
Page County	2	8.4
Patrick County	1	5.4
Petersburg City	1	3.1
Pittsylvania County	4	6.4
Poquoson City	1	8.3
Portsmouth City	12	12.5
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	1	2.7
Prince William County	11	2.5
Pulaski County	1	2.9
Radford City	1	5.8

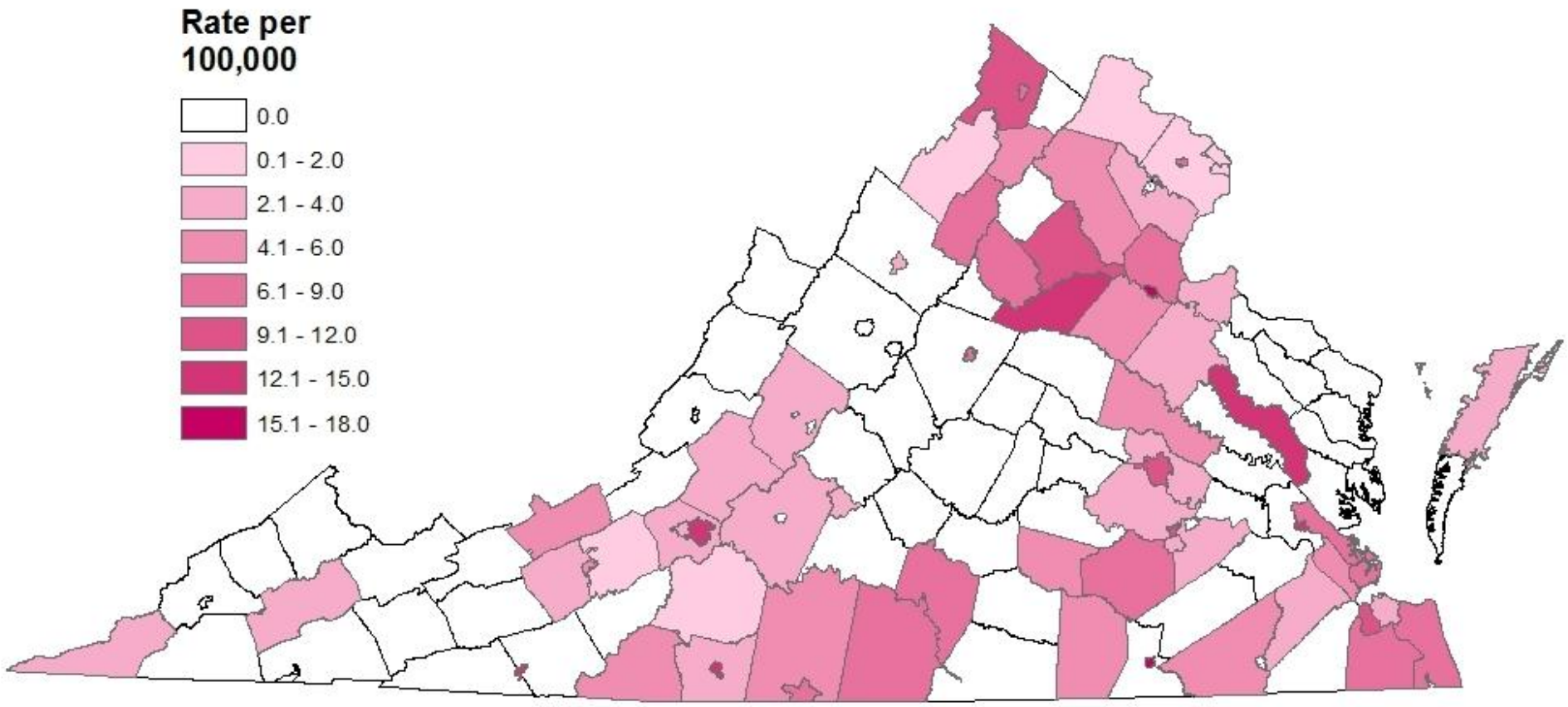
County/City of Injury	Total	Rate
Rappahannock County	0	0.0
Richmond City	26	12.1
Richmond County	0	0.0
Roanoke City	14	14.2
Roanoke County	3	3.2
Rockbridge County	1	4.5
Rockingham County	0	0.0
Russell County	1	3.5
Salem City	1	4.0
Scott County	0	0.0
Shenandoah County	1	2.3
Smyth County	0	0.0
Southampton County	1	5.5
Spotsylvania County	6	4.7
Stafford County	11	8.0
Staunton City	0	0.0
Suffolk City	0	0.0
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	31	6.9
Warren County	2	5.2
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	2	13.2
Winchester City	2	7.3
Wise County	0	0.0
Wythe County	0	0.0
York County	6	9.1
Subtotal (in-state)	310	3.8
Out of State	1	ND
Subtotal (out-of-state)	1	ND
TOTAL	**311**	**3.8**

Note: No denominator is represented by ND.

Map 5.11 Total Number of OCME Cocaine and/or Heroin Deaths by Locality of Injury, 2013



Map 5.12 Rates of OCME Cocaine and/or Heroin Deaths by Locality of Injury, 2013



HEROIN DEATHS (N=213)

Heroin overdoses, both fatal and non-fatal, were a big topic of concern in the nation as well as Virginia in 2013. The number of fatal heroin overdoses increased by 57.8% in 2013 compared to 2012. Heroin deaths may be underestimated because heroin is very rapidly metabolized into morphine and without known heroin history, circumstances, and/or the presence of the specific heroin metabolite detected in toxicology, heroin cases may be missed.

- Over 77.0% of the deaths were male, 84.5% were white, and 35.7% were aged 25-34 years
- Fatal heroin overdoses represented 23.4% of all drug/poison deaths
- The Central OCME district had the most of these deaths (36.6%)

NOTE: Heroin tables and figures represent deaths in which heroin caused death; but other drugs/poisons also may have caused death.

Figure 5.15 Total Number and Rate of Fatal Heroin Overdoses by Year, 2007-2013

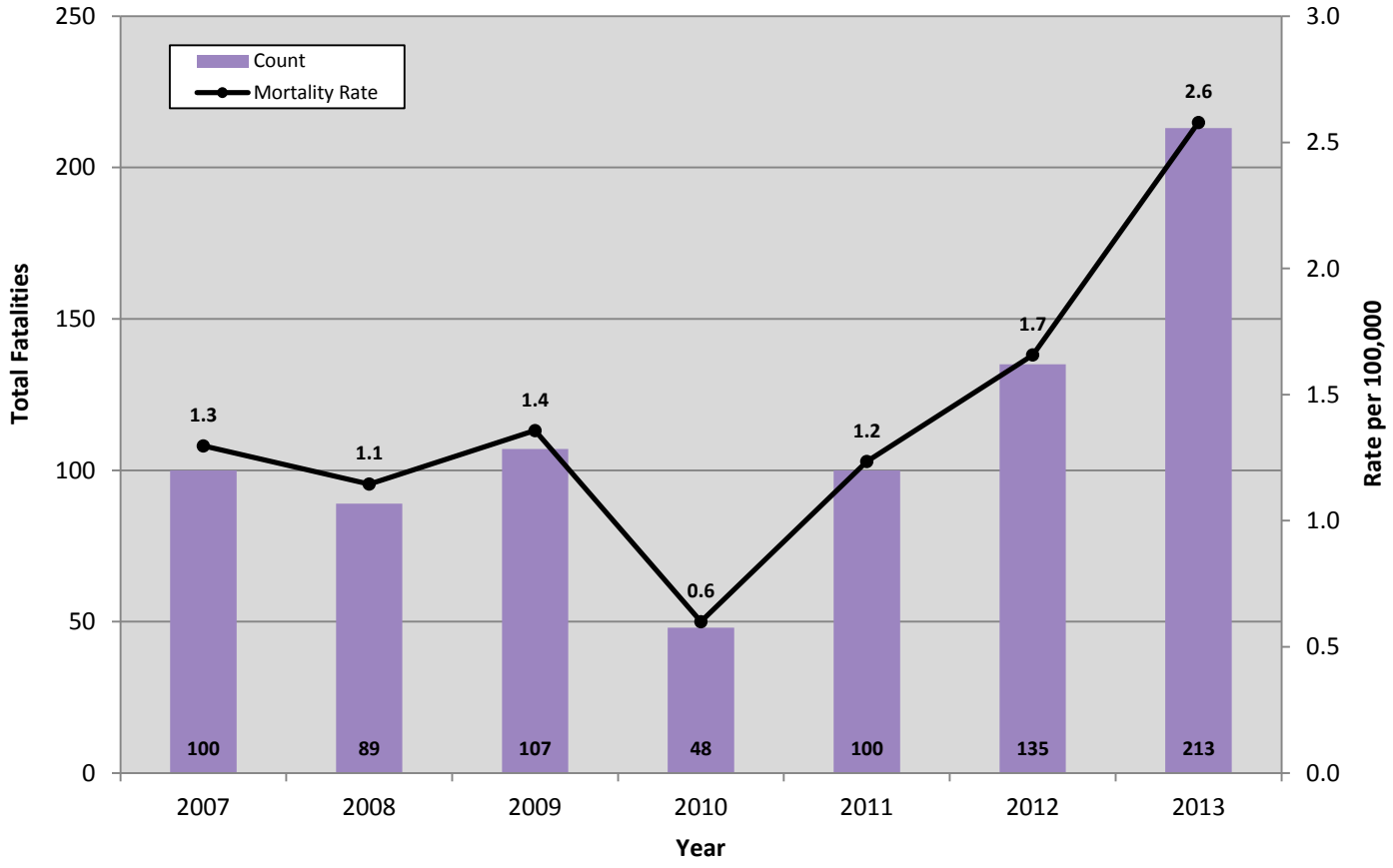


Table 5.24 Total Number and Percentage of Fatal Heroin Overdoses by OCME District, 2013

OCME District	Total	Percentage
Central	78	36.6%
Northern	50	23.5%
Tidewater	69	32.4%
Western	16	7.5%
TOTAL	**213**	**100.0%**

Figure 5.16 Percentage of Fatal Heroin Overdoses by Gender, 2013

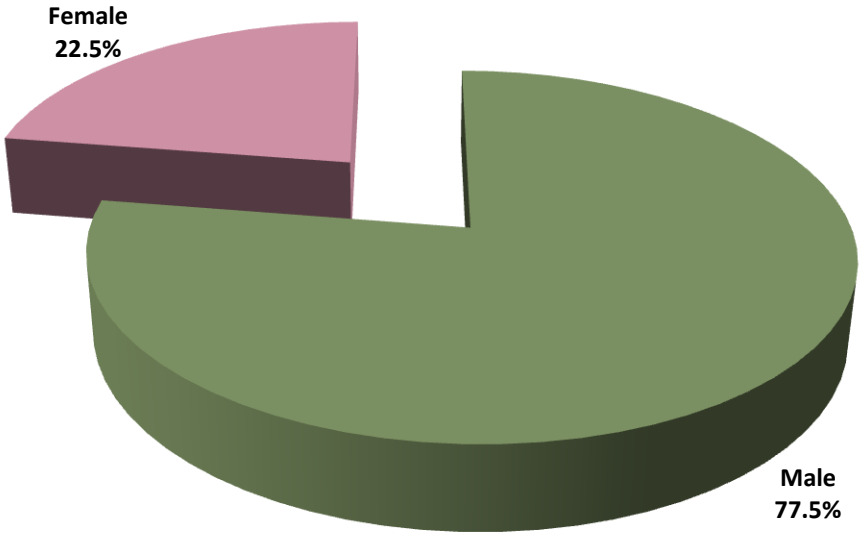
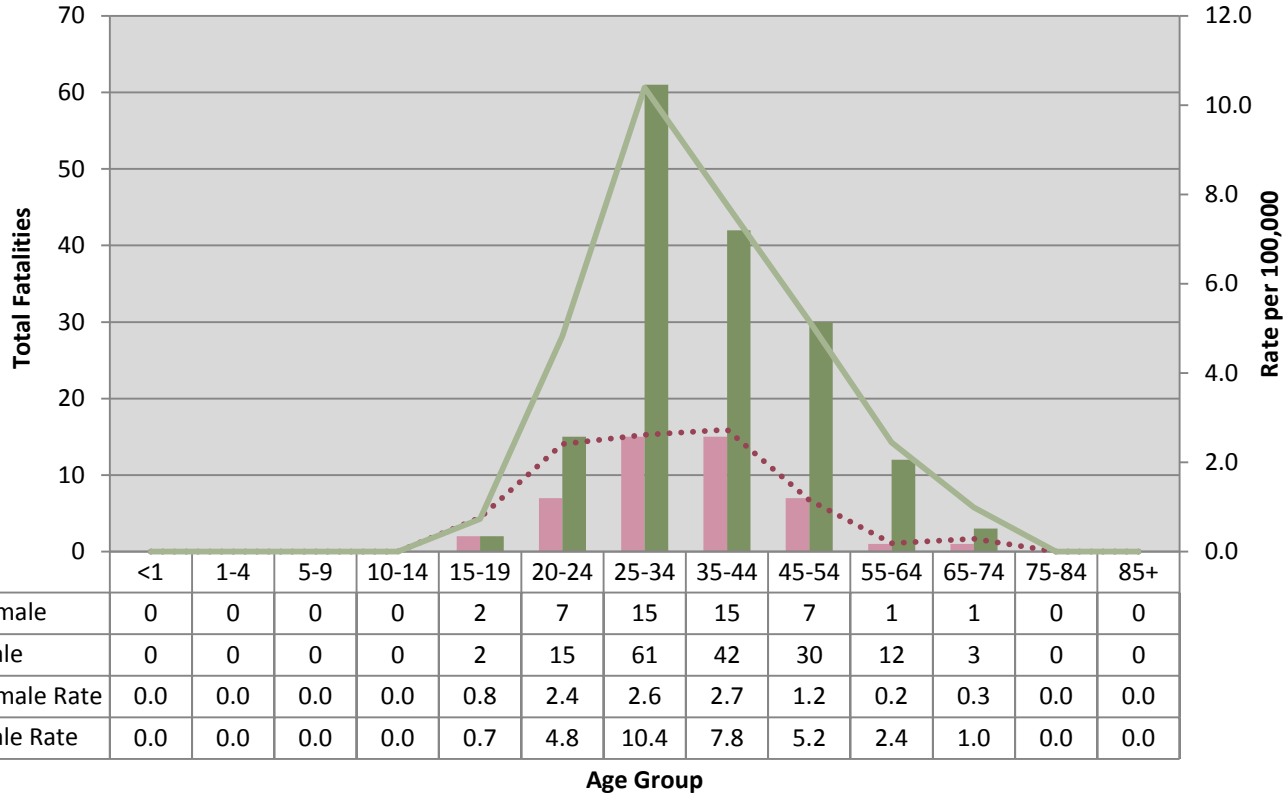


Figure 5.17 Number and Rate of Fatal Heroin Overdoses by Age Group and Gender, 2013



	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Female	0	0	0	0	2	7	15	15	7	1	1	0	0
Male	0	0	0	0	2	15	61	42	30	12	3	0	0
Female Rate	0.0	0.0	0.0	0.0	0.8	2.4	2.6	2.7	1.2	0.2	0.3	0.0	0.0
Male Rate	0.0	0.0	0.0	0.0	0.7	4.8	10.4	7.8	5.2	2.4	1.0	0.0	0.0

Figure 5.18 Percentage of Fatal Heroin Overdoses by Race/Ethnicity, 2013

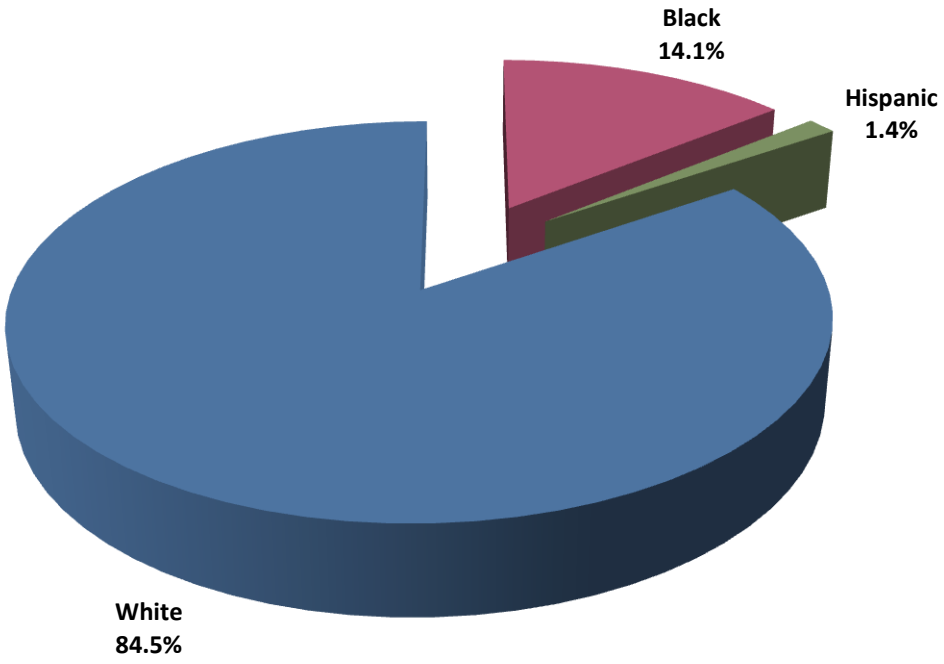
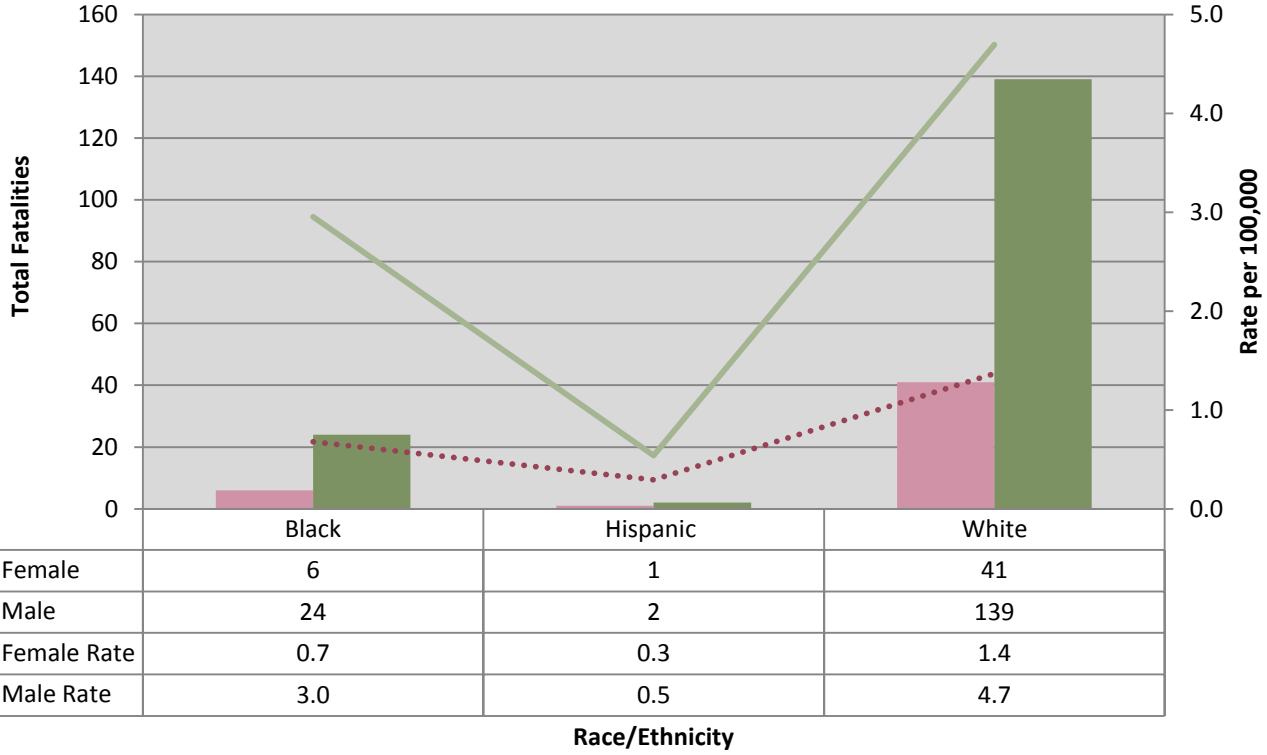


Figure 5.19 Number and Rate of Fatal Heroin Overdoses by Race/Ethnicity, 2013



	Black	Hispanic	White
Female	6	1	41
Male	24	2	139
Female Rate	0.7	0.3	1.4
Male Rate	3.0	0.5	4.7

Table 5.25 Number and Percentage of Fatal Heroin Overdoses and Whether Alcohol Caused or Contributed to Death, 2013

Whether Alcohol Played a Role in the Death	Total	Percentage
Contributed	6	2.8%
No	170	79.8%
Yes	37	17.4%
TOTAL	**213**	**100.0%**

Table 5.26 Number and Rate of Fatal Heroin Overdoses by Locality of Residence, 2013

County/City of Residence	Total	Rate
Accomack County	1	3.0
Albemarle County	0	0.0
Alexandria City	0	0.0
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	2	0.9
Augusta County	0	0.0
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	1	1.4
Bland County	0	0.0
Botetourt County	0	0.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	0	0.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	1	1.8
Caroline County	2	6.8
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	2	4.5
Chesapeake City	6	2.6
Chesterfield County	10	3.1
Clarke County	0	0.0
Colonial Heights City	2	11.3
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	6	12.4
Cumberland County	0	0.0
Danville City	0	0.0
Dickenson County	0	0.0
Dinwiddie County	1	3.6
Emporia City	0	0.0
Essex County	1	8.9
Fairfax City	0	0.0
Fairfax County	10	0.9
Falls Church City	0	0.0

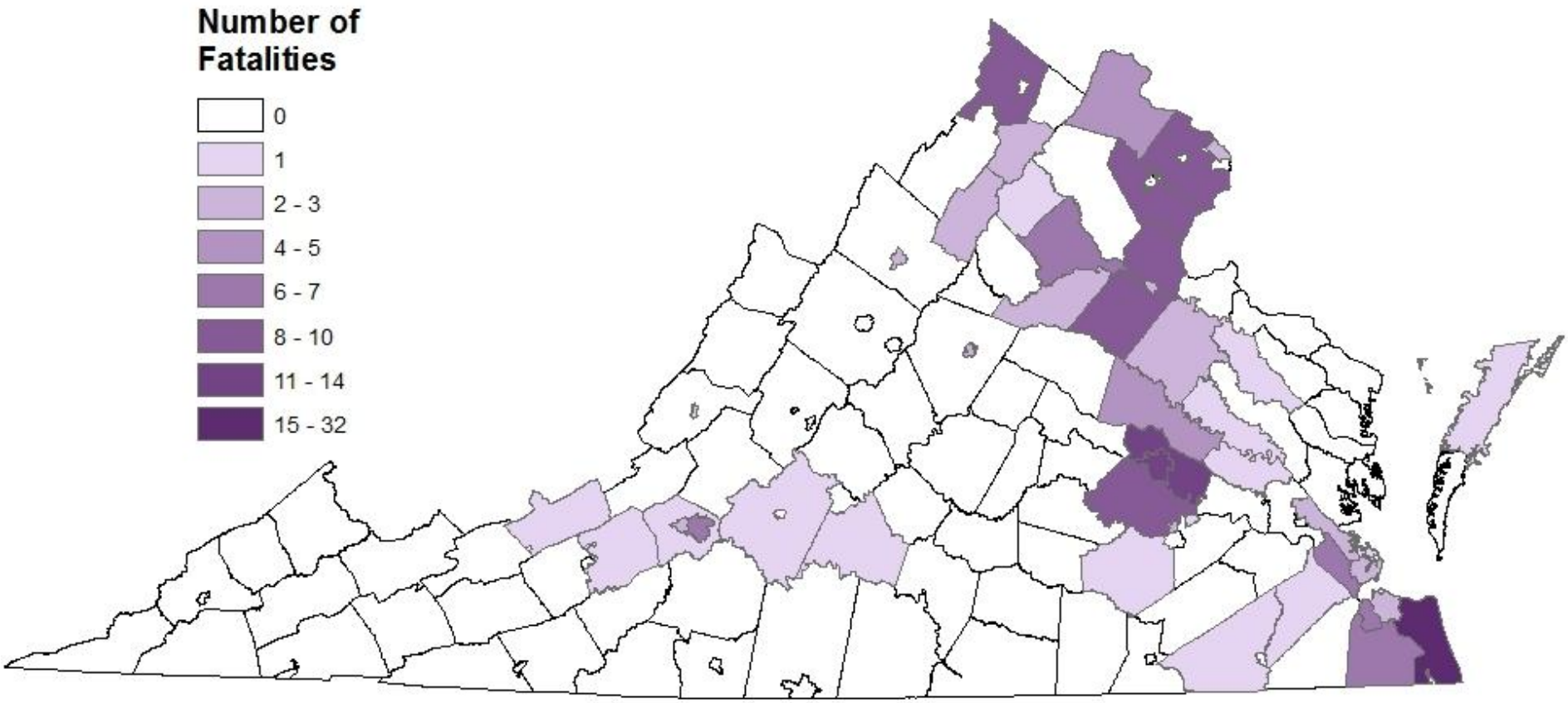
County/City of Residence	Total	Rate
Fauquier County	0	0.0
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	0	0.0
Frederick County	8	9.8
Fredericksburg City	3	10.7
Galax City	0	0.0
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	3	2.2
Hanover County	4	3.9
Harrisonburg City	2	3.9
Henrico County	12	3.8
Henry County	0	0.0
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	1	2.8
James City County	0	0.0
King and Queen County	0	0.0
King George County	0	0.0
King William County	1	6.2
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	5	1.4
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	0	0.0
Madison County	0	0.0
Manassas City	0	0.0
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	0	0.0
Mecklenburg County	0	0.0
Middlesex County	0	0.0

County/City of Residence	Total	Rate
Montgomery County	1	1.0
Nelson County	0	0.0
New Kent County	1	5.1
Newport News City	7	3.8
Norfolk City	3	1.2
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	2	5.8
Page County	3	12.6
Patrick County	0	0.0
Petersburg City	0	0.0
Pittsylvania County	0	0.0
Poquoson City	1	8.3
Portsmouth City	7	7.3
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	0	0.0
Prince William County	9	2.1
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	1	13.4
Richmond City	14	6.5
Richmond County	0	0.0
Roanoke City	6	6.1
Roanoke County	1	1.1
Rockbridge County	0	0.0
Rockingham County	0	0.0

County/City of Residence	Total	Rate
Russell County	0	0.0
Salem City	2	7.9
Scott County	0	0.0
Shenandoah County	0	0.0
Smyth County	0	0.0
Southampton County	1	5.5
Spotsylvania County	9	7.1
Stafford County	9	6.6
Staunton City	0	0.0
Suffolk City	0	0.0
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	32	7.1
Warren County	2	5.2
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	0	0.0
Winchester City	0	0.0
Wise County	0	0.0
Wythe County	0	0.0
York County	3	4.5
Subtotal (in state)	**201**	**2.4**
Out of State	11	ND
Unknown	1	ND
Subtotal (out of state)	**12**	**ND**
TOTAL	**213**	**2.6**

Note: No denominator is represented by ND.

Map 5.13 Number of Fatal Heroin Overdoses by Locality of Residence, 2013



Map 5.14 Rates of Fatal Heroin Overdoses by Locality of Residence, 2013

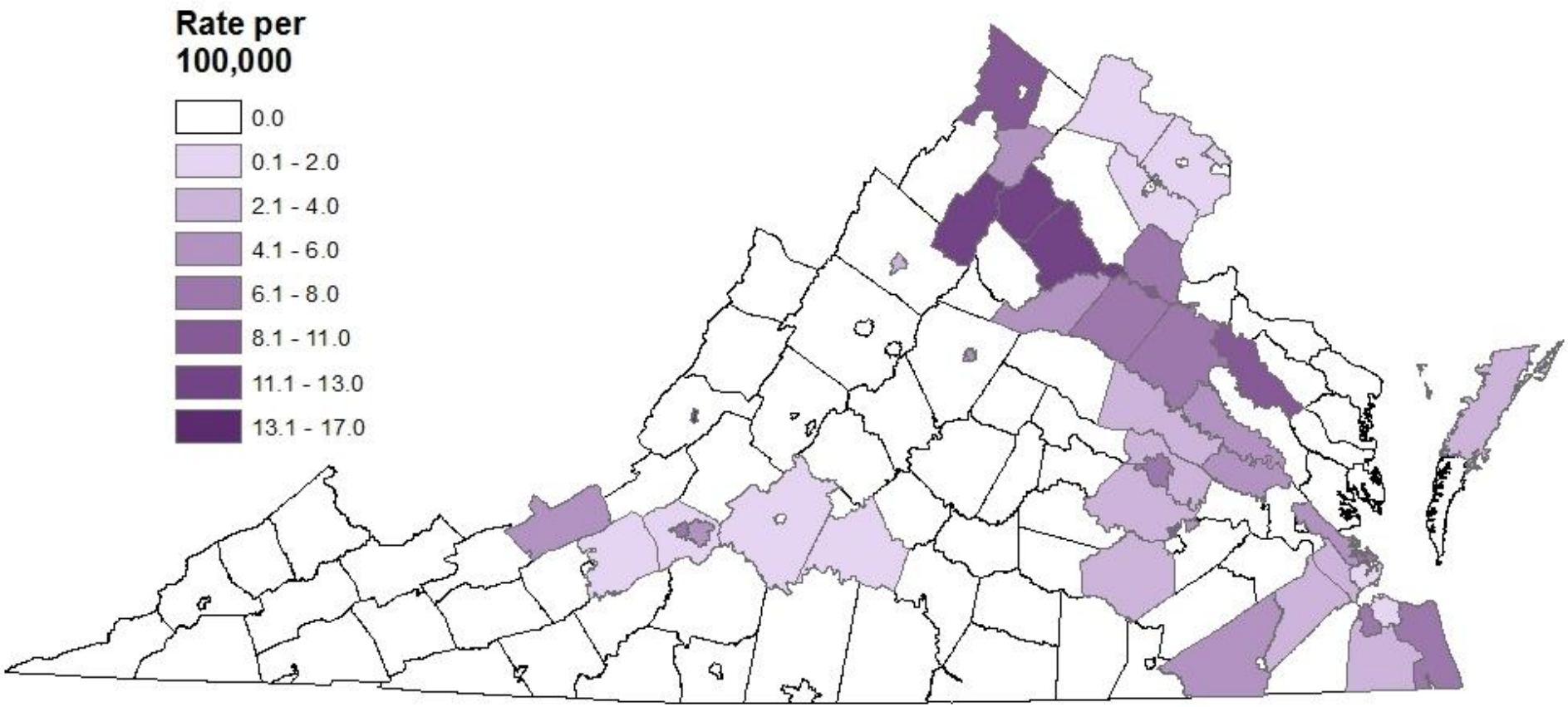


Table 5.27 Number and Rate of Fatal Heroin Overdoses by Locality of Injury, 2013

County/City of Injury	Total	Rate
Accomack County	1	3.0
Albemarle County	0	0.0
Alexandria City	0	0.0
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	2	0.9
Augusta County	0	0.0
Bath County	0	0.0
Bedford City	0	0.0
Bedford County	1	1.4
Bland County	0	0.0
Botetourt County	0	0.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	0	0.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	0	0.0
Caroline County	1	3.4
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	2	4.5
Chesapeake City	11	4.8
Chesterfield County	9	2.7
Clarke County	0	0.0
Colonial Heights City	2	11.3
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	4	8.2
Cumberland County	0	0.0
Danville City	0	0.0
Dickenson County	0	0.0
Dinwiddie County	1	3.6
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	1	4.2
Fairfax County	7	0.6
Falls Church City	0	0.0

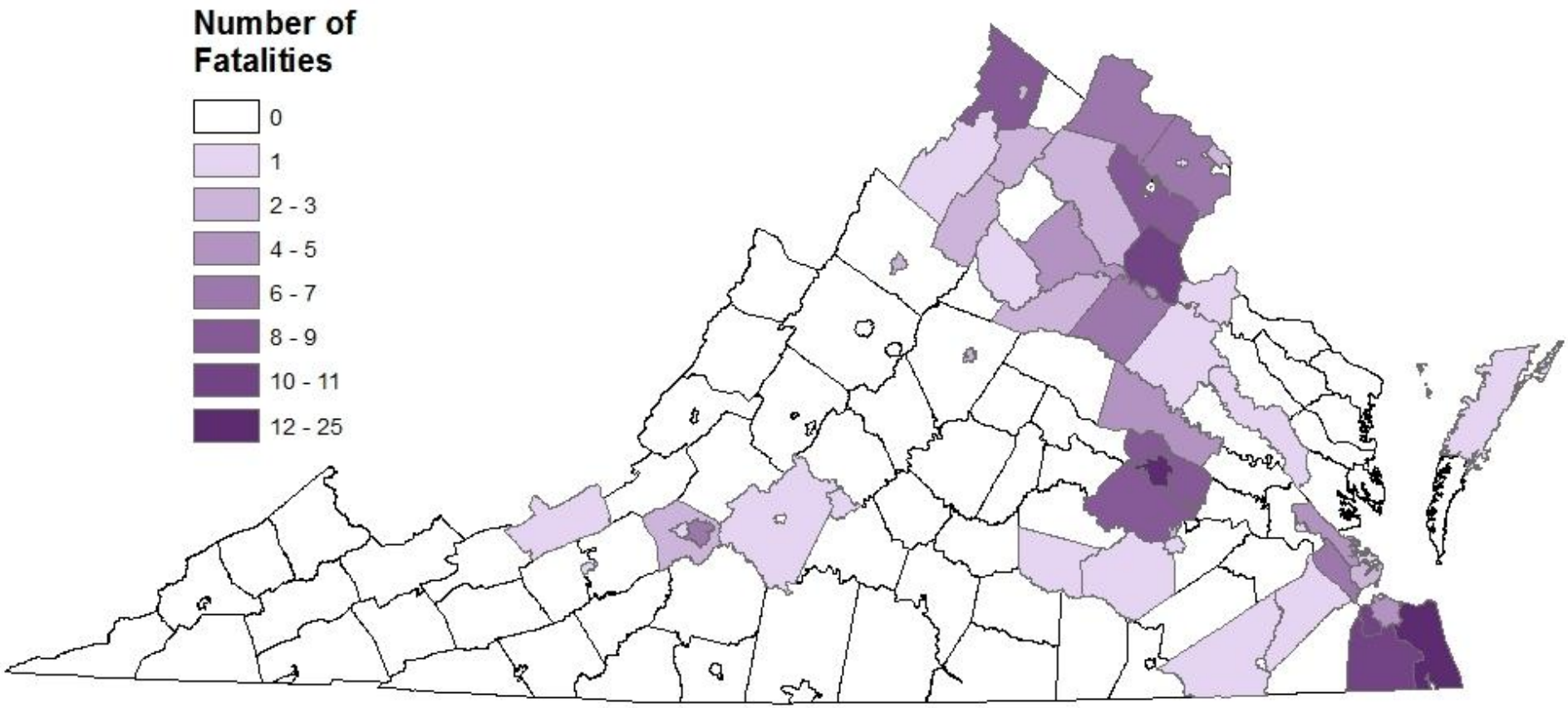
County/City of Injury	Total	Rate
Fauquier County	3	4.5
Floyd County	0	0.0
Fluvanna County	0	0.0
Franklin City	0	0.0
Franklin County	0	0.0
Frederick County	8	9.8
Fredericksburg City	5	17.8
Galax City	0	0.0
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	0	0.0
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	3	2.2
Hanover County	5	4.9
Harrisonburg City	2	3.9
Henrico County	9	2.8
Henry County	0	0.0
Highland County	0	0.0
Hopewell City	0	0.0
Isle of Wight County	1	2.8
James City County	0	0.0
King and Queen County	1	14.0
King George County	1	4.0
King William County	0	0.0
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	6	1.7
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	1	1.3
Madison County	1	7.6
Manassas City	0	0.0
Manassas Park City	0	0.0
Martinsville City	0	0.0
Mathews County	0	0.0
Mecklenburg County	0	0.0
Middlesex County	0	0.0

County/City of Injury	Total	Rate
Montgomery County	0	0.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	7	3.8
Norfolk City	5	2.0
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.3
Orange County	3	8.6
Page County	2	8.4
Patrick County	0	0.0
Petersburg City	1	3.1
Pittsylvania County	0	0.0
Poquoson City	1	8.3
Portsmouth City	10	10.4
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	0	0.0
Prince William County	9	2.1
Pulaski County	0	0.0
Radford City	1	5.8
Rappahannock County	0	0.0
Richmond City	21	9.8
Richmond County	0	0.0
Roanoke City	7	7.1
Roanoke County	2	2.1
Rockbridge County	0	0.0
Rockingham County	0	0.0

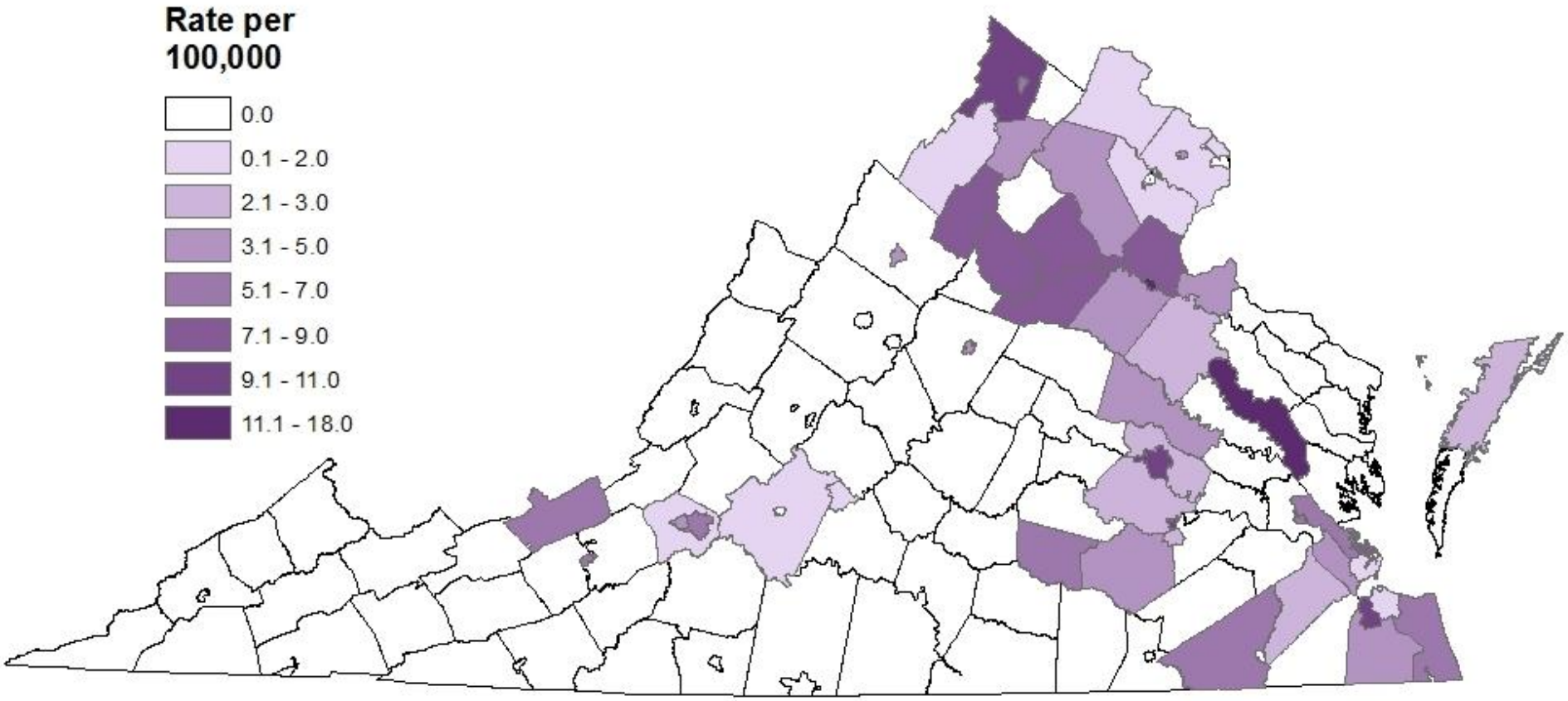
County/City of Injury	Total	Rate
Russell County	0	0.0
Salem City	1	4.0
Scott County	0	0.0
Shenandoah County	1	2.3
Smyth County	0	0.0
Southampton County	1	5.5
Spotsylvania County	6	4.7
Stafford County	11	8.0
Staunton City	0	0.0
Suffolk City	0	0.0
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	25	5.6
Warren County	2	5.2
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	1	6.6
Winchester City	2	7.3
Wise County	0	0.0
Wythe County	0	0.0
York County	4	6.0
Subtotal (in-state)	213	2.6
Out of State	0	ND
Subtotal (out-of-state)	0	ND
TOTAL	**213**	**2.6**

Note: No denominator is represented by ND.

Map 5.15 Number of Fatal Heroin Overdoses by Locality of Injury, 2013



Map 5.16 Rates of Fatal Heroin Overdoses by Locality of Injury, 2013



SECTION 6: IN-CUSTODY (PRISONER) DEATHS (N=128)

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 128 in-custody deaths in 2013.

- The majority (74.2%) of in-custody deaths were natural deaths
- The vast majority of deaths were male (94.5%) and black (52.3%)

Figure 6.1 Percentage of Prisoner Deaths by Manner, 2013

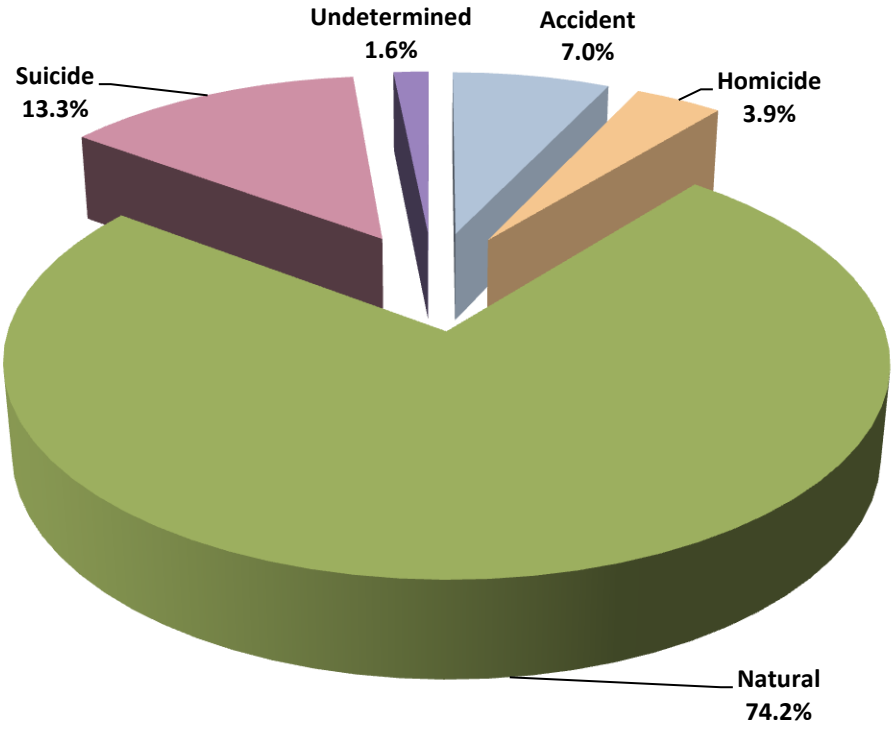


Figure 6.2 Percentage of Prisoner Deaths by Race/Ethnicity, 2013

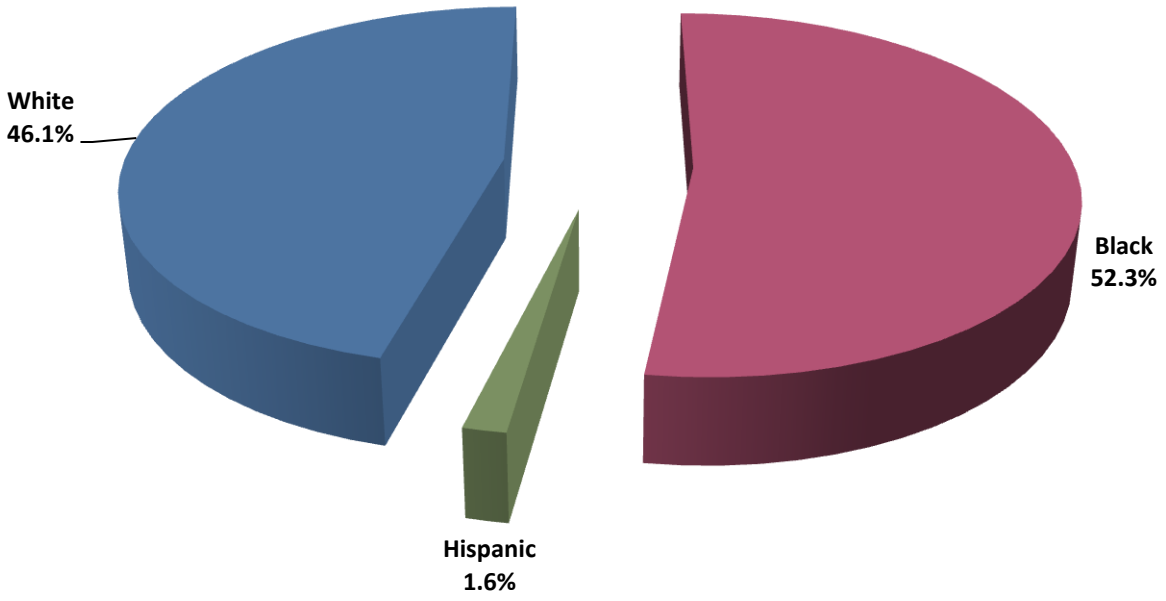


Figure 6.3 Total Number of Prisoner Deaths by Age Group and Gender, 2013

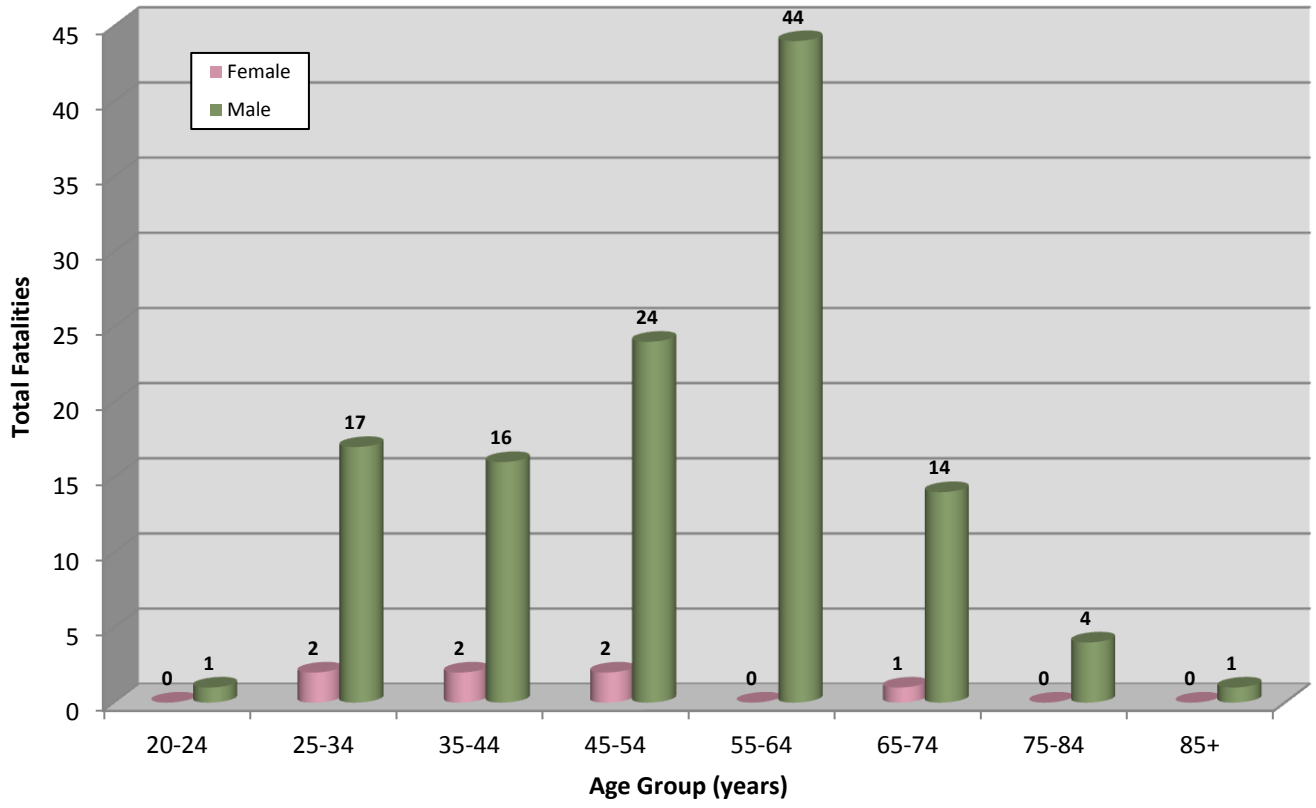


Figure 6.4 Total Number of Prisoner Deaths by Manner and Race/Ethnicity, 2013

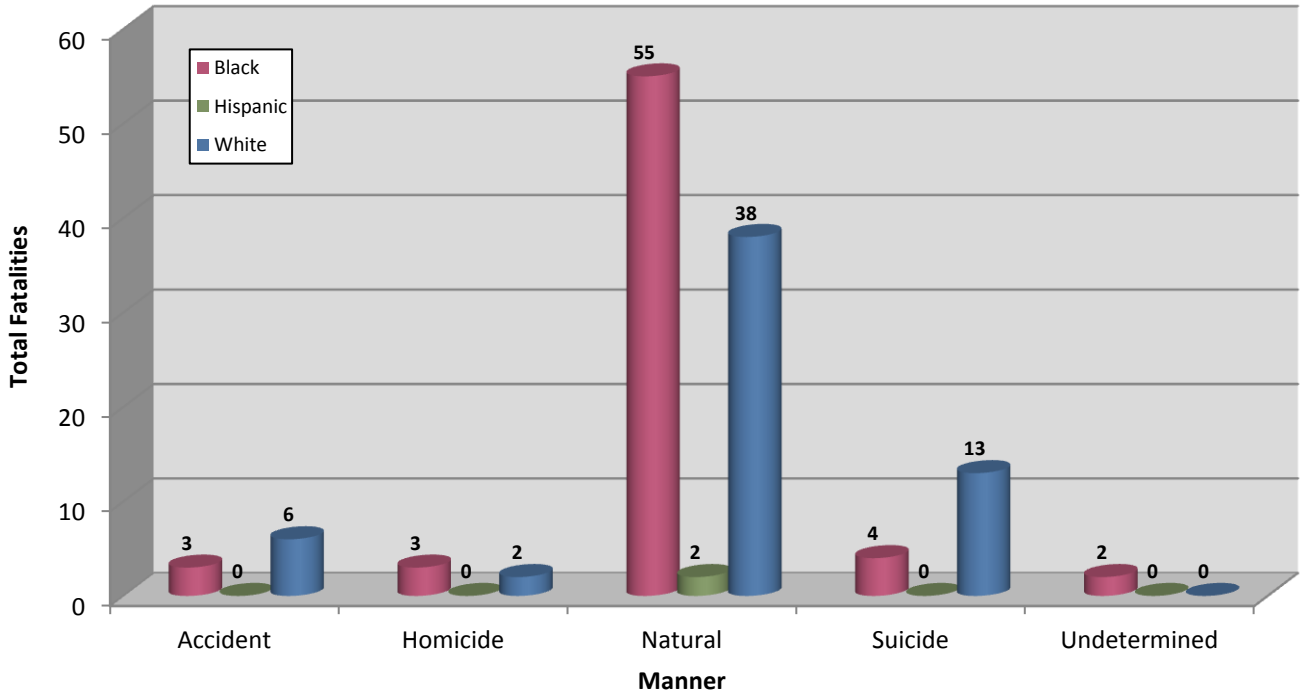


Table 6.1 Total Number of Prisoner Deaths by Cause and Method of Death, 2013

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	10	12
Atherosclerosis and hypertension	7	7
Cardiomyopathy	2	3
Hypertension	9	10
Central Nervous System (CNS) Diseases/Disorders		
Vascular disease	1	3
Other CNS disease/disorder	2	2
Gastrointestinal (GI) Diseases/Disorders		
Cirrhosis	1	5
GI malignancy	8	12
Hepatitis	5	11
Genitourinal Diseases/Disorders		
Renal disease	1	1
Other genitourinal disease/disorder	2	2
Pulmonary Disease/Disorders		

COPD	1	1
Emboli	3	4
Malignancy	5	7
Pneumonia	1	4
Other pulmonary disease/disorder	0	2
Systemic Diseases/Disorders		
AIDS/HIV	1	1
Blood disorders	1	2
Diabetes	1	2
Metastatic malignancy of unknown primary	1	1
Sepsis	1	1
Other systemic disease/disorder	2	3
Natural Death Subtotal	**65**	**96**
UNDETERMINED DEATHS	**Autopsied**	**Total Cases**
Undetermined Deaths After Autopsy and/or Investigation		
Other undetermined	1	1
Undetermined Death Subtotal	**1**	**1**
UNNATURAL DEATHS	**Autopsied**	**Total Cases**
Asphyxia		
Hanged	15	15
Blunt Force Injuries		
Blunt force to torso	1	1
Gunshot Wound		
Gunshot wound to chest	2	2
Gunshot wound to torso	1	1
Judicial Execution		
Electrocution	1	1
Penetrating Injuries		
Stabbed	1	1
Substance Abuse		
Illegal (Street) drug poisoning	7	7
Not otherwise specified poisoning	1	1
Prescription drug poisoning	2	2
Unnatural Death Subtotal	**31**	**31**
TOTAL OCME IN-CUSTODY DEATHS	**97**	**128**

SECTION 7: STATE MENTAL HEALTH DEATHS (N=60)

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 60 state mental health resident deaths in 2013.

- The majority of state mental health deaths were natural (95.0 %), white (75.0%) and male (65.0%)

Figure 7.1 Percentage of State Mental Health Deaths by Manner, 2013

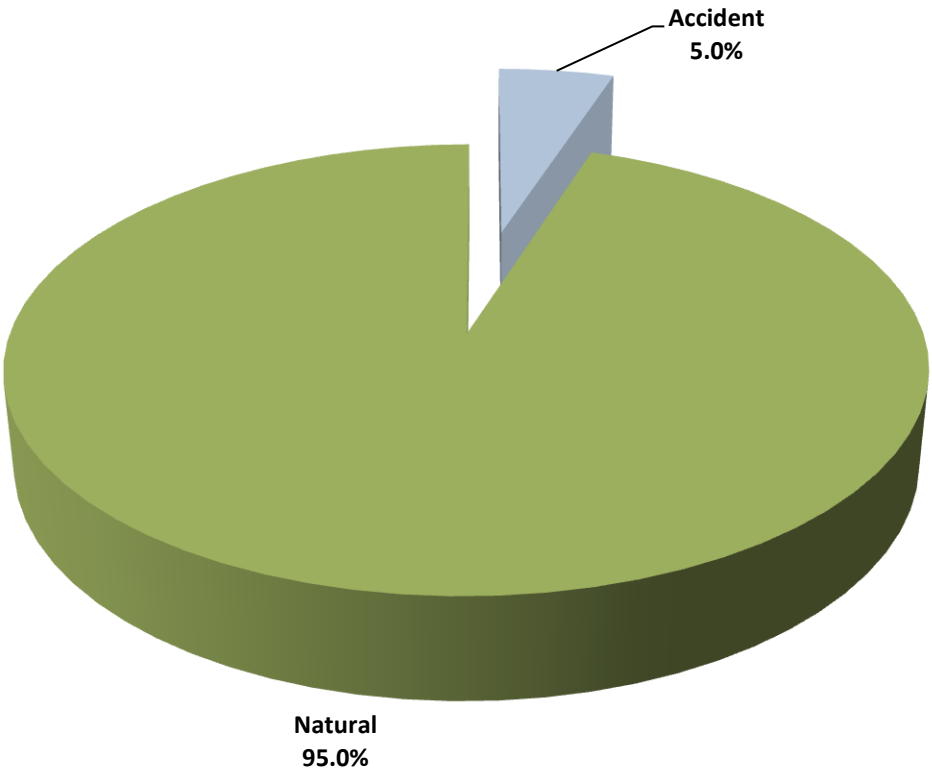


Figure 7.2 Percentage of State Mental Heath Deaths by Race/Ethnicity, 2013

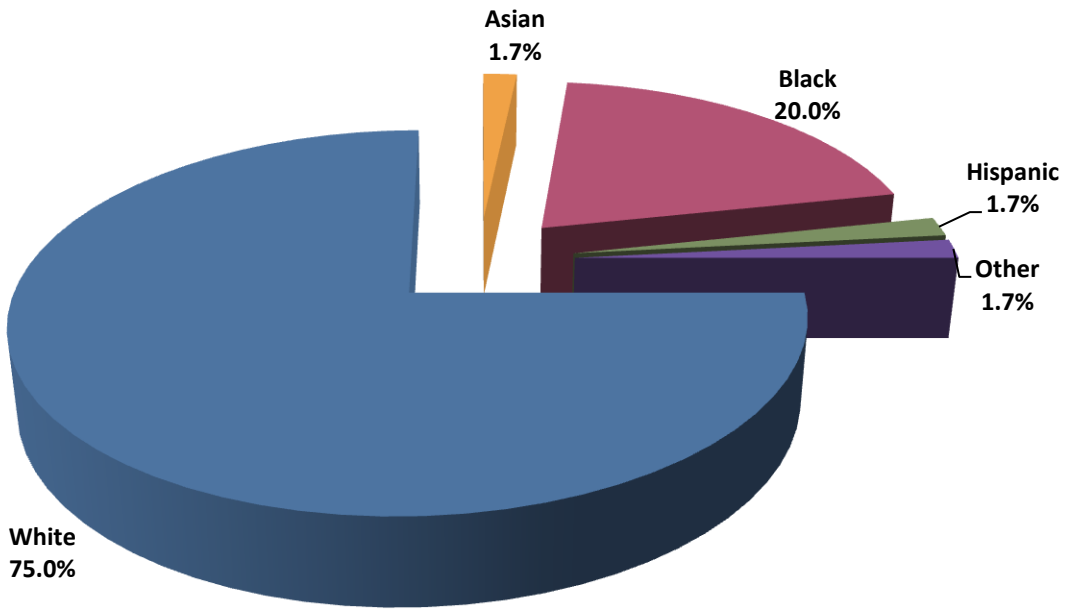


Figure 7.3 Total Number of State Mental Heath Deaths by Age Group and Gender, 2013

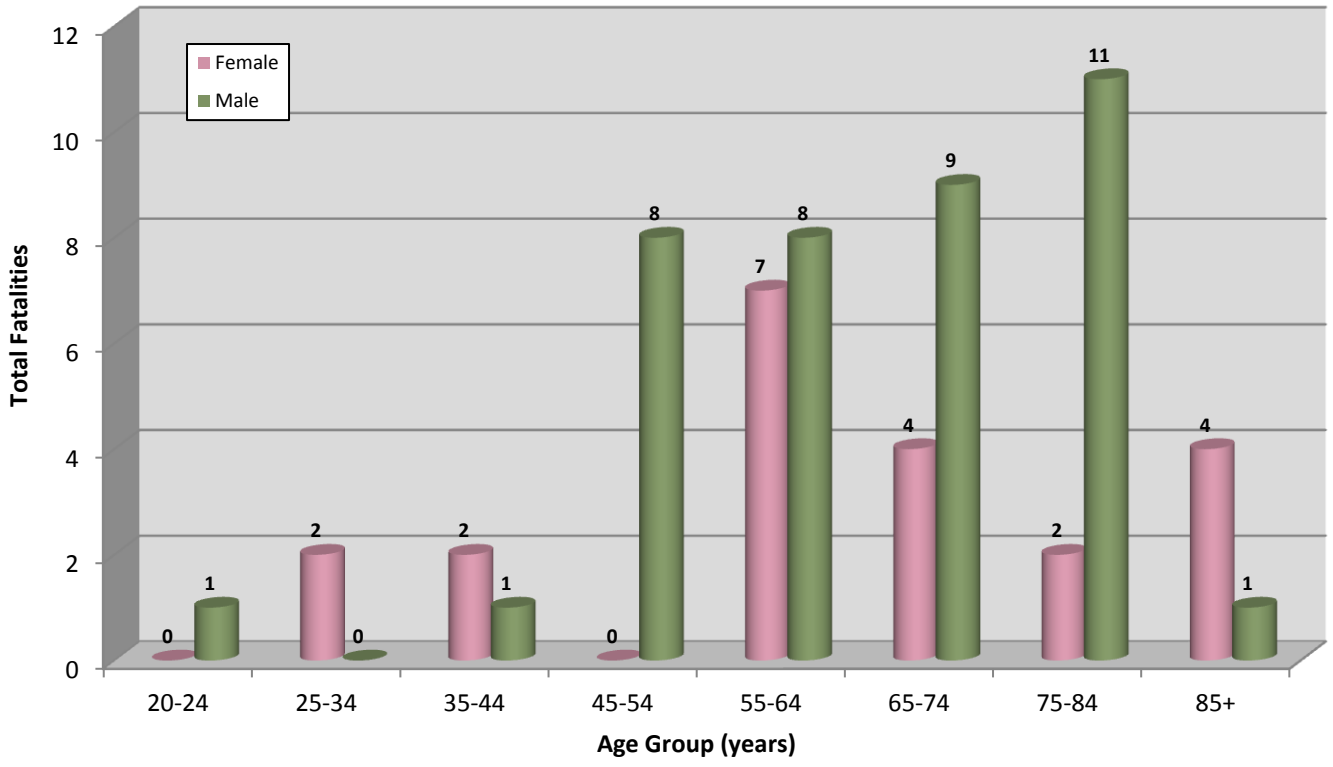


Table 7.1 Total Number of State Mental Heath Deaths by Facility and Gender, 2013

State Facility Type	Female	Male	Total
Training Center	6	8	**14**
All Others	15	31	**46**
TOTAL	**21**	**39**	**60**

Table 7.2 Total Number of State Mental Heath Deaths by Facility and Race/Ethnicity, 2013

State Facility Type	Asian	Black	Hispanic	Other	White	Total
Training Center	0	5	0	0	9	**14**
All Others	1	7	1	1	36	**46**
TOTAL	**1**	**12**	**1**	**1**	**45**	**60**

Table 7.3 Total Number of State Mental Heath Deaths by Cause and Method of Death, 2013

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	3	4
Atherosclerosis and hypertension	2	2
Cardiomyopathy	1	1
Hypertension	1	5
Central Nervous System (CNS) Diseases/Disorders		
Degenerative disease	1	4
Seizure disorder	1	2
Other CNS disease/disorder	2	3
Gastrointestinal (GI) Diseases/Disorders		
GI malignancy	4	6
Hepatitis	0	1
Other GI disease/disorder	0	1
Genitourinal Diseases/Disorders		
Genitourinal malignancy	2	2
Other genitourinal disease/disorder	0	1
Pulmonary Disease/Disorders		

Chronic Obstructive Pulmonary Disease (COPD)	2	3
Emboli	2	2
Pneumonia	6	12
Pulmonary malignancy	0	1
Other pulmonary disease/disorder	0	1
Systemic Disease/Disorders		
Diabetes	0	1
Sepsis	1	3
Other systemic disease/disorder	0	2
Other Natural Deaths/Disorders		
Other malignancy	1	1
Natural Death Subtotal	**29**	**58**
UNNATURAL DEATHS	**Autopsied**	**Total Cases**
Blunt Force Injuries		
Blunt force to head/neck	1	1
Blunt force to extremities	0	1
Unnatural Death Subtotal	**1**	**2**
TOTAL STATE MENTAL HEALTH DEATHS	**30**	**60**

SECTION 8: RETROSPECTIVE CASES (N=226)

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.

These 226 retrospective deaths may have been deaths that occurred in other years, but the OCME investigation began in 2013.

- The majority of the OCME's retrospective deaths are accidents (82.3%).
- Most common unreported type of death is due to a jump/fall (65.9%) among elder persons

Figure 8.1 Percentage of Retrospective Deaths by Manner, 2013

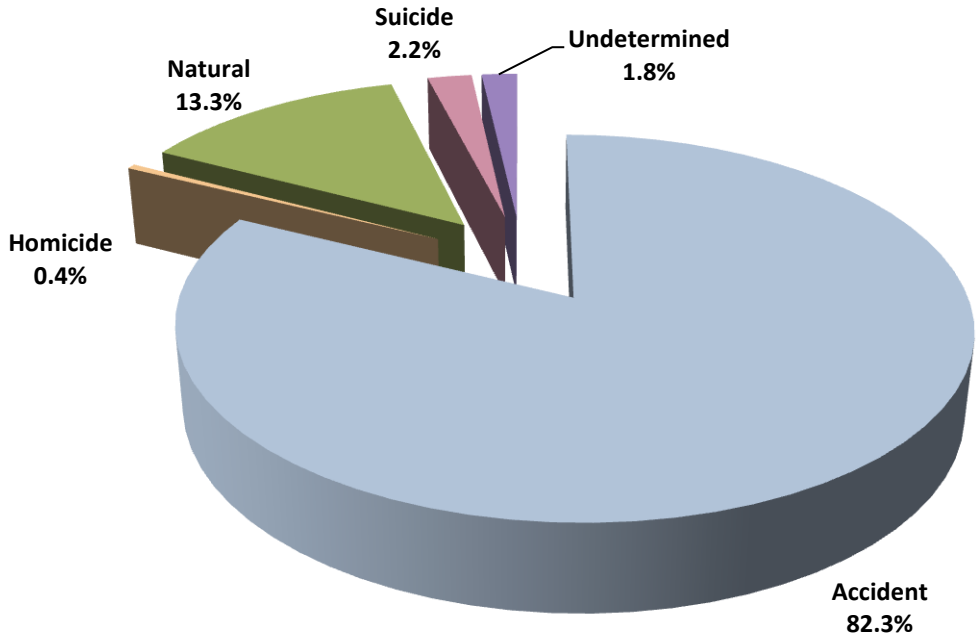


Figure 8.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2013

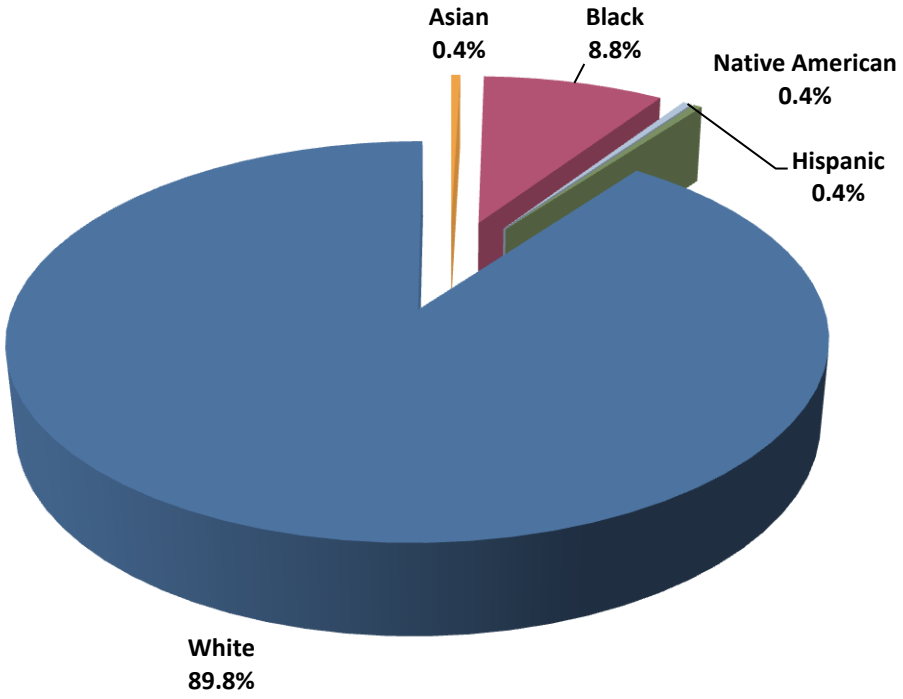


Figure 8.3 Total Number of Retrospective Deaths by Age Group and Gender, 2013

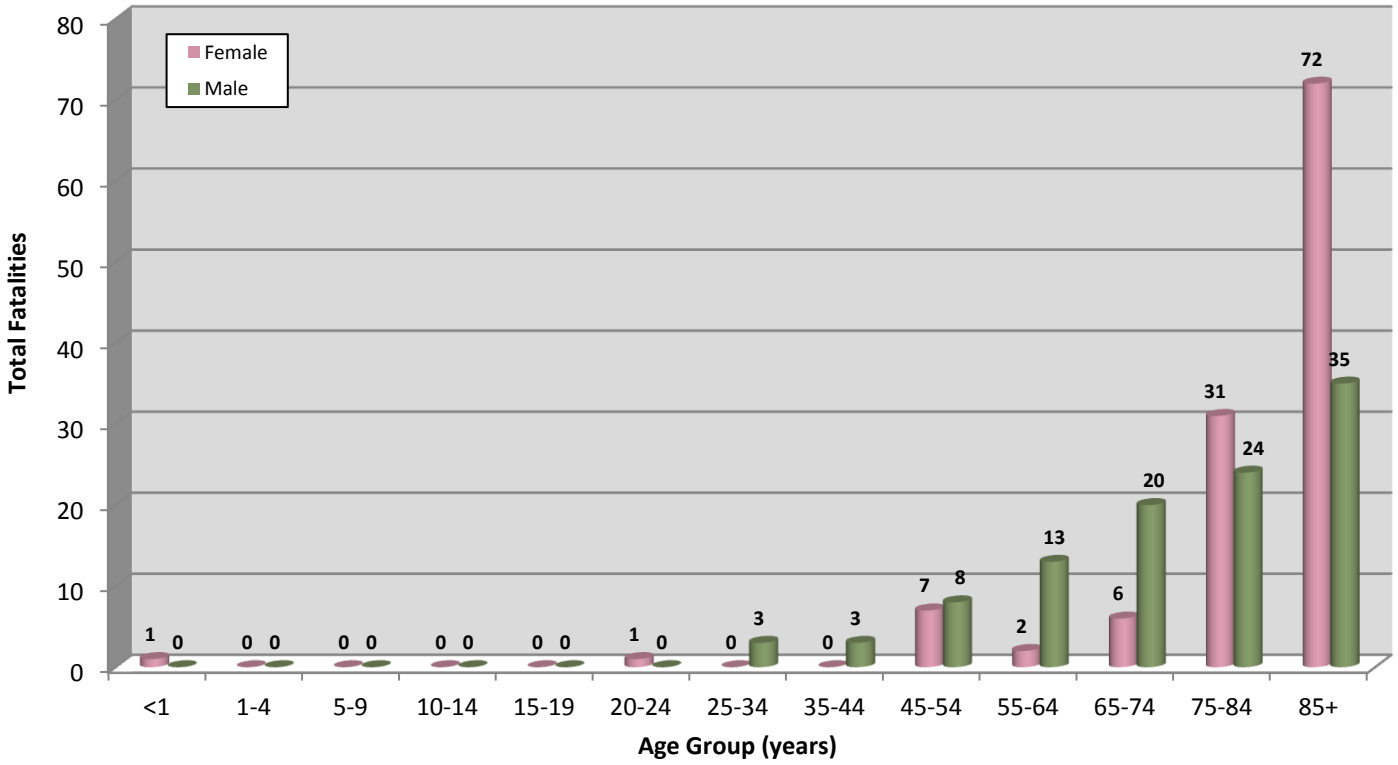


Table 8.1 Total Number of Retrospective Deaths by Cause and Method of Death, 2013

NATURAL DEATHS	Total
Cardiovascular Diseases/Disorders	
Acute coronary insufficiency	1
Atherosclerosis	6
Atherosclerosis and hypertension	4
Cardiomyopathy	1
Hypertension	4
Other cardiac disease/disorder	1
Central Nervous System (CNS) Diseases/Disorders	
Degenerative disease	2
Vascular disease	1
Gastrointestinal (GI) Disease/Disorders	
Cirrhosis	1
GI hemorrhage	1
Genitourinal Diseases/Disorders	
Renal disease	1
Perinatal and Pediatric Diseases/Disorders	
Fetal complications	1
Pulmonary Diseases/Disorders	
Chronic Obstructive Pulmonary Disease (COPD)	3
Pneumonia	3
Systemic Diseases/Disorders	
Chronic drug abuse	1
Diabetes	2
Other infectious disease	1
Other systemic disease/disorder	2
Natural Death Subtotal	**36**
UNDETERMINED DEATHS	**Total**
Undetermined Deaths After Autopsy and/or Investigation	
Other Undetermined	2
Undetermined Death Subtotal	**2**
UNNATURAL DEATHS	**Total**
Asphyxia	
Choked (aspiration food or foreign object)	8
Hanged	3

Mechanical asphyxia	1
Other asphyxia	3
Fall/Jump	
Fell or jumped from height	149
Fire	
Thermal and/or inhalation injuries	1
Motor Vehicle	
Car	6
Lawnmower	1
Mo-ped	1
Motorcycle	3
Pickup truck	2
Sport utility vehicle	1
Truck (other)	1
Substance Abuse	
Illegal (Street) drug poisoning	2
Mixed category drug poisoning	2
Not specified drug poisoning	1
Prescription drug poisoning	1
Traumatic Injury	
Beatings/Blows	1
Hit by falling object	1
Unnatural Death Subtotal	**188**
TOTAL OCME DEATHS	**226**

Note: the OCME cannot perform an autopsy on retrospective cases because the remains have already been processed and the final disposition has already been completed

GLOSSARY

Accident – The *manner of death* used when there is no evidence of intent; an unintentional, 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 and manner of death, collect evidence, and 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 – Pursuant to the Code of Virginia § 32.1-283, the code details the extent of the Office of the Chief Medical Examiner's authority over deaths:

> '*Upon the death of any person from trauma, injury, violence, poisoning, accident, suicide or homicide, or suddenly when in apparent good health, or when unattended by a physician, or in jail, prison, other correctional institution or in police custody, or who is an individual receiving services in a state hospital or training center operated by the Department of Behavioral Health and Developmental Services, or suddenly as an apparent result of fire, or in any suspicious, unusual or unnatural manner, or the sudden death of any infant less than 18 months of age whose death is suspected to be attributable to Sudden Infant Death Syndrome (SIDS), the medical examiner of the county or city in which death occurs shall be notified by the physician in attendance, hospital, law-enforcement officer, funeral director or any other person having knowledge of such death*.'

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* and disposition of cases reported; additionally, to perform external examinations when required. 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 a disease alone 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 of the Chief Medical Examiner (OCME) lies within the Virginia Department of Health and is responsible for the investigation of sudden, violent, or unexpected death.

Opiate – A class of drugs derived from the opium poppy plant (*Papaver somniferum*). "Opioid" is often used interchangeably with opiates, and describes chemical/pharmaceutical narcotics that bind to the opiate receptors of the brain and work very similarly to opiates.

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 (children 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.

Sudden Infant Death Syndrome –Sudden Infant Death Syndrome (SIDS) is defined as the sudden death of an infant 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 and an unknown manner, an undetermined cause of death and a known manner, or a determined cause of death and an unknown manner.

View- A detailed postmortem external examination of the decedent's body, clothing, and injuries that may have caused or contributed to their death

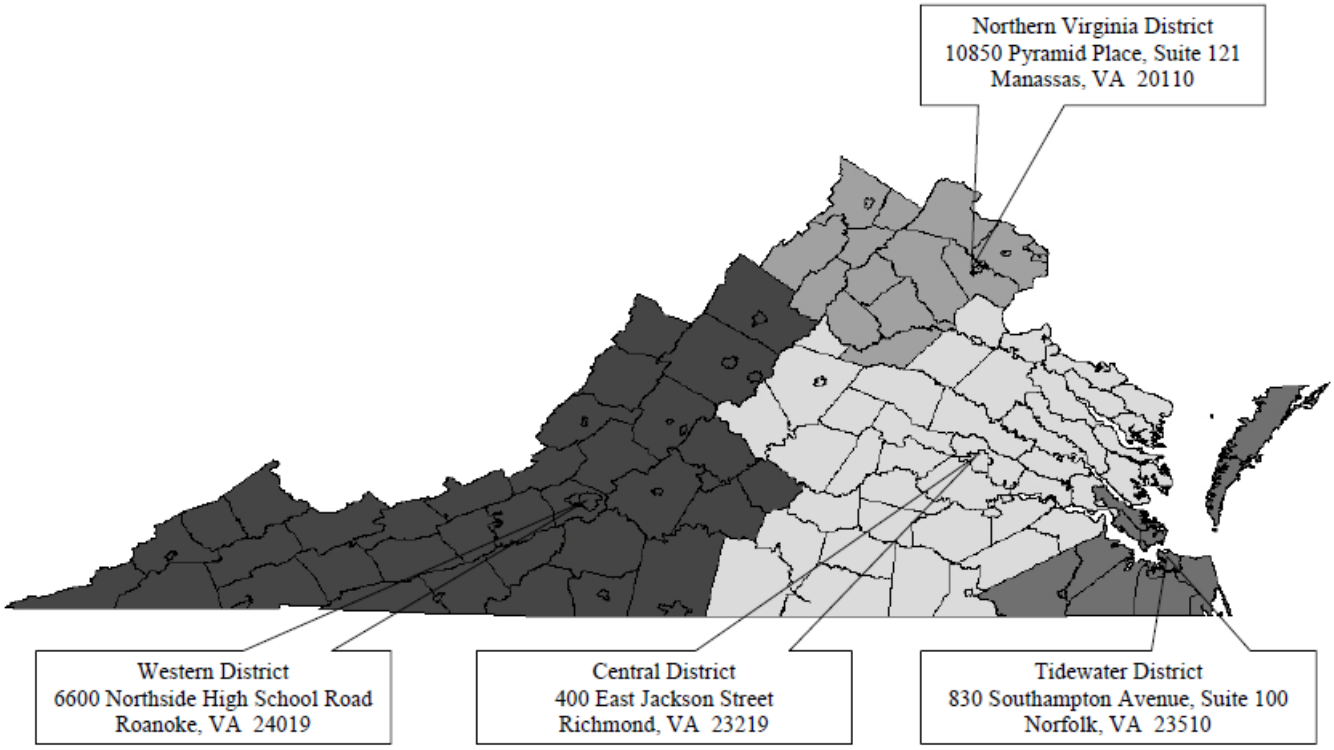
MEDICAL EXAMINER DISTRICTS

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.



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

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