VDH VIRGINIA DEPARTMENT OF HEALTH
Protecting You and Your Environment

Office of the Chief Medical Examiner's Annual Report, 2014

Commonwealth of Virginia
Virginia Department of Health
Office of the Chief Medical Examiner, 2014
Created by Kathrin Hobron, MPH

February 2016

Office of the Chief Medical Examiner's Annual Report, 2014

Chief Medical Examiner: William T. Gormley, MD, PhD

CENTRAL DISTRICT

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

OCME_CENT@vdh.virginia.gov

Assistant Chief Medical Examiners*
Kevin D. Whaley, MD
Lauren Huddle, MD
Leah Bush, MD

NORTHERN DISTRICT

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

OCME_NOVA@vdh.virginia.gov

Assistant Chief Medical Examiners¥
Constance R. DiAngelo, MD
Jocelyn Posthumus, MD
Frances Field, MD

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

TIDEWATER DISTRICT

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

OCME_Tide@vdh.virginia.gov

Assistant Chief Medical Examiners
Elizabeth L. Kinnison, MD
Wendy M. Gunther, MD
Babatunde Stokes, MD

WESTERN DISTRICT

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

OCME_West@vdh.virginia.gov

Assistant Chief Medical Examiners
Amy Tharp, MD
Gayle Suzuki, MD
Jennifer Bowers, MD
Eli Goodman, MD

* Deborah Kay, MD was an Assistant Chief Medical Examiner for the Central District in 2014

¥ Mehdi Koolaee, MD was an Assistant Chief Medical Examiner for the Northern District in 2014

Office of the Chief Medical Examiner's Annual Report, 2014

Virginia Department of Health

Commonwealth of Virginia

TABLE OF CONTENTS

TABLE OF CONTENTS 1
INTRODUCTION 12
Letter from the Chief Medical Examiner 12
Introduction 14
Data Collection and Preparation 14
Statistical Summary 14
OVERVIEW – OFFICE OF THE CHIEF MEDICAL EXAMINER 15
Jurisdictional Authority 15
Medicolegal Mission 16
Public Health Mission 16
Virginia Demographics in 2014 17
Fatality Review and Surveillance Programs 17
The Family and Intimate Partner Violence Homicide Surveillance Project (FIPV) 17
The Virginia Violent Death Reporting System (VVDRS) 18
The State Child Fatality Review Team 19
Domestic Violence Fatality Review 21
Virginia's Pregnancy-Associated Mortality Surveillance System (PAMSS) and Maternal Mortality Review Team (MMRT) 22
Virginia's Sudden Death in the Young (SDY) Project 23
Adult Fatality Review 24
Training and Education 25
Forensic Pathology Training Programs 25

National Association of Medical Examiners Accreditation 26
SECTION 1: TOTAL OCME CASES (N=6,169) 28
Figure 1.1 Number and Rate of OCME Cases and Mortality Rate by Year of Death, 1999-2014. 28
Figure 1.2 Number of OCME Cases by Manner of Death, 1999-2014 29
Figure 1.3 Percentage of OCME Cases by Manner of Death, 2014 29
Table 1.1 Number of OCME Cases by District and Manner of Death, 2014 30
Table 1.2 Number of OCME Cases by Autopsy Status and District, 2014 30
Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2014 30
Table 1.4 Number and Percentage of OCME Cases by Race/Ethnicity, 2014 31
Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2014 31
Figure 1.5 Number of OCME Cases by Age Group, 2014 32
Table 1.5 Number and Percentage of OCME Cases by Gender, 2014 32
Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2014 33
Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2014 33
Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2014 34
Figure 1.7 Number of OCME Cases by Month of Death, 2014 35
Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2014 35
Figure 1.9 Number of OCME Cases by Day of Death, 2014 36
Figure 1.10 Number of OCME Cases by Day and Manner of Death, 2014 36
Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2014 37
Map 1.1 Number of OCME Cases by Locality of Residence, 2014 43
Map 1.2 Rates of OCME Cases by Locality of Residence, 2014 44
Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2014 .. 45
Map 1.3 Number of OCME Cases by Locality of Injury, 2014 51
Map 1.4 Rate of OCME Cases by Locality of Injury, 2014 52
Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2014 53
Map 1.5 Number of OCME Cases by Locality of Death, 2014 57
SECTION 2: MANNER OF DEATH 58
ACCIDENTAL DEATHS (N=2,632) 58
Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2014 58

Figure 2.2 Number and Rate of Accidental Deaths by Age Group and Gender, 2014 59
Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2014..... 59
Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2014 60
Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2014 61
Table 2.2 Number and Rate of the Top 5 Accidental Methods of Death by Age Group, 2014 63
Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=2124), 2014 64
Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=2124), 2014 64
Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2014..... 65
Figure 2.8 Number of Accidental Deaths by Month of Death, 2014 66
Figure 2.9 Number of Accidental Deaths by Day of Death, 2014 66
Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2014..... 67
HOMICIDE DEATHS (N=358) 73
Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2014..... 73
Figure 2.11 Number and Rate of Homicide Deaths by Age Group and Gender, 2014 74
Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2014 74
Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2014..... 75
Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2014 76
Figure 2.14 Number of the Top 5 Homicide Deaths by Method, 2014 77
Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=335), 2014..... 77
Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=335), 2014..... 78
Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=335), 2014 . 79
Figure 2.17 Number of Homicide Deaths by Month of Death, 2014..... 80
Figure 2.18 Number of Homicide Deaths by Day of Death, 2014 80
Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2014 81
Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2014 83
Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2014..... 83
Map 2.1 Number of Homicides by Locality of Residence, 2014 84
Map 2.2 Homicide Rates by Locality of Residence, 2014 85
Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2014..... 86
Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2014 88

Table 2.11 Top 10 Locations City/Counties with the Highest Rate of Homicides by Locality of Injury, 2014 88
Map 2.3 Number of Homicides by Locality of Injury, 2014 89
Map 2.4 Homicide Rates by Locality of Injury, 2014 90
Table 2.12 Number of Homicide Deaths by Locality of Injury and Year of Death, 2006-2014 91
NATURAL DEATHS (N=1,829) 97
Figure 2.19 Number and Rate of Natural Deaths by Year of Death, 1999-2014 97
Figure 2.20 Number of Natural Deaths by Age Group and Gender, 2014 98
Table 2.13 Number of Natural Deaths by Cause and Method of Death, 2014 99
SUICIDE DEATHS (N=1,146) 101
Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2014 101
Figure 2.22 Number and Rate of Suicide Deaths by Age Group and Gender, 2014 102
Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2014 102
Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2014 103
Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2014 104
Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=776), 2014 105
Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=776), 2014 105
Table 2.15 Number of Suicide Deaths by Manner of Death and Ethanol Level (N=776), 2014 . 106
Figure 2.27 Number of Suicide Deaths by Month of Death, 2014 107
Figure 2.28 Number of Suicide Deaths by Day of the Week, 2014 107
Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2014 108
Map 2.5 Number of Suicides by Locality of Residence, 2014 110
Map 2.6 Suicide Rates by Locality of Residence, 2014 111
Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2014 112
UNDETERMINED DEATHS (N=204) 118
Figure 2.29 Number and Rate of Undetermined Deaths by Year of Death, 1999-2014 118
Figure 2.30 Number and Rate of Undetermined Deaths by Age Group and Gender, 2014 119
Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2014 119
Table 2.18 Number of Undetermined Deaths by Cause of Death, 2014 120
SECTION 3: DEATHS OF CHILDREN (N=337) 121
Figure 3.1 Number of Child Deaths by Manner, 2014 121

Figure 3.2 Number of Child Deaths by Age and Gender, 2014 122
Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2014 122
Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2014 123
Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2014 123
Table 3.1 Number of Child Deaths by Cause of Death, 2014 124
ACCIDENTAL CHILD DEATHS (N=119) 126
Figure 3.6 Number and Rate of Accidental Child Deaths by Year, 2003-2014 126
Figure 3.7 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2014 127
Figure 3.8 Percentage of Accidental Child Deaths by Race/Ethnicity, 2014 127
Figure 3.9 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2014 128
Figure 3.10 Number of Accidental Child Deaths by Month of Death, 2014 129
Figure 3.11 Number of Accidental Child Deaths by Day of Week, 2014 129
Table 3.2 Number of Accidental Child Deaths by Cause and Method of Death, 2014 130
CHILD HOMICIDE DEATHS (N=45) 132
Figure 3.12 Number and Rate of Child Homicide Deaths by Year, 1999-2014 132
Figure 3.13 Number of Child Homicide Deaths by Age and Gender, 2014 133
Figure 3.14 Percentage of Child Homicide Deaths by Race/Ethnicity, 2014 133
Figure 3.15 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2014 134
Figure 3.16 Number of Child Homicide Deaths by Month of Death, 2014 135
Figure 3.17 Number of Child Homicide Deaths by Day of the Week, 2014 135
Table 3.3 Number of Child Homicide Deaths by Cause and Method of Death, 2014 136
NATURAL CHILD DEATHS (N=41) 137
Figure 3.18 Number of Natural Child Deaths by Age Group and Gender, 2014 137
Figure 3.19 Percentage of Natural Child Deaths by Race/Ethnicity, 2014 138
Figure 3.20 Number of OCME SIDS Cases by Year of Death, 2003-2014 138
Table 3.4 Number of Natural Child Deaths by Cause and Method of Death, 2014 139
CHILD SUICIDE DEATHS (N=39) 140
Figure 3.21 Number and Rate of Child Suicide Deaths by Year, 1999-2014 140
Figure 3.22 Number of Child Suicide Deaths by Age and Gender, 2014 141
Figure 3.23 Percentage of Child Suicide Deaths by Race/Ethnicity, 2014 141
Figure 3.24 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2014 ... 142

Figure 3.25 Number of Child Suicide Deaths by Month, 2014 143
Figure 3.26 Number of Child Suicide Deaths by Day of the Week, 2014 143
Table 3.5 Number of Child Suicide Deaths by Cause and Method of Death, 2014 144
UNDETERMINED CHILD DEATHS (N=93) 145
Figure 3.27 Number and Rate of Undetermined Child Deaths by Year, 2006-2014 145
Figure 3.28 Number of Undetermined Child Deaths by Age and Gender, 2014 146
Figure 3.29 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2014 146
Figure 3.30 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2014 147
Table 3.6 Number of Undetermined Child Deaths by Cause and Method of Death, 2014 148
SECTION 4: MOTOR VEHICLE FATALITIES (N=807) 149
Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2014 149
Figure 4.2 Percentage of Motor Vehicle Deaths by Manner, 2014 150
Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2014 150
Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2014 151
Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2014 ... 151
Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=672), 2014 152
Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=672), 2014 152
Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=672), 2014 153
Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2014 153
Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=672), 2014 154
Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level, 2014 155
Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2014 158
Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2014 158
Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2014 159
Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2014 161
Map 4.2 Rate of Motor Vehicle Fatalities by Locality of Residence, 2014 162
Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2014 163

Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2014 165

Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2014 166

SECTION 5: DRUG/POISON DEATHS (N=992)..... 167

TOTAL DRUG/POISON DEATHS (N=992) 167

Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2014 ... 167

Table 5.1 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2014 .. 168

Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2014 168

Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2014 169

Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2014 169

Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2014..... 170

Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2014 170

Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2014 171

Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2014..... 171

Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2014 172

Figure 5.7 Number of Fatal Drug/Poison Overdoses by Drug Category and Gender, 2014..... 173

Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2014 174

Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2014 175

Table 5.5 Number of Fatal Drug/Poison Overdoses by Cause of Death and Whether Alcohol Caused Death, 2014 175

Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2014 176

Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2014..... 176

Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite Detected that Caused or Contributed to Death, 2014 181

Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2014 181

Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2014 .. 186

Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2014 188

Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2014 189

Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2014 190

Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2014 192

Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2014 193

PRESCRIPTION OPIOIDS (N=551) 194

Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid Overdoses by Year of Death, 2007-2014 194

Figure 5.13 Number of Prescription Opioids Causing or Contributing to Death in Fatal Drug/Poison Overdoses, 2014 195

Figure 5.14 Percentage of Fatal Prescription Opioid Overdoses by Manner of Death, 2014 195

Table 5.10 Number of Prescription Opioids Detected in Fatal Drug Overdoses by OCME District, 2014 196

Figure 5.15 Number and Rate of Fatal Prescription Opioid Overdoses by Age Group and Gender, 2014 196

Figure 5.16 Percentage of Fatal Prescription Opioid Overdoses by Race/Ethnicity, 2014..... 197

Figure 5.17 Number and Rate of Fatal Prescription Opioid Overdoses by Race/Ethnicity and Gender, 2014 197

Table 5.11 Number and Rate of Fatal Prescription Opioid Overdoses by Locality of Residence, 2014 198

Map 5.5 Number of Fatal Prescription Opioid Overdoses by Locality of Residence, 2014..... 200

Map 5.6 Rates of Fatal Prescription Opioid Overdoses by Locality of Residence, 2014 201

Table 5.12 Number and Rate of Fatal Prescription Opioid Overdoses by Locality of Injury, 2013 202

Map 5.7 Number of Fatal Prescription Opioid Overdoses by Locality of Injury, 2014 204

Map 5.8 Rates of Fatal Prescription Opioid Overdoses by Locality of Injury, 2014 205

HEROIN DEATHS (N=239) 206

Figure 5.18 Number and Rate of Fatal Heroin Overdoses by Year of Death, 2007-2014 206

Table 5.13 Number and Percentage of Fatal Heroin Overdoses by OCME District, 2014..... 207

Figure 5.19 Percentage of Fatal Heroin Overdoses by Manner of Death, 2014 207

Figure 5.20 Number and Rate of Fatal Heroin Overdoses by Age Group and Gender, 2014..... 208

Figure 5.21 Percentage of Fatal Heroin Overdoses by Race/Ethnicity, 2014..... 208

Figure 5.22 Number and Rate of Fatal Heroin Overdoses by Race/Ethnicity and Gender, 2014 209

Table 5.14 Number and Percentage of Fatal Heroin Overdoses by Whether Alcohol Caused Death, 2014..... 209

Table 5.15 Number and Rate of Fatal Heroin Overdose by Locality of Residence, 2014..... 210

Map 5.9 Number of Fatal Heroin Overdoses by Locality of Residence, 2014 212

Map 5.10 Rates of Fatal Heroin Overdose by Locality of Residence, 2014..... 213

Table 5.16 Number and Rate of Fatal Heroin Overdoses by Locality of Injury, 2014 214

Map 5.11 Number of Fatal Heroin Overdoses by Locality of Injury, 2014 216

Map 5.12 Rates of Fatal Heroin Overdose by Locality of Injury, 2014 217

COCAINE AND/OR HEROIN DEATHS (N=332) 218

Table 5.17 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination, 2014 ... 218

Table 5.18 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination and OCME District, 2014..... 219

Table 5.19 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination and Race/Ethnicity, 2014..... 219

Table 5.20 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination and Gender, 2014 219

Figure 5.23 Number and Rate of Fatal Cocaine and/or Heroin Combination Deaths by Age Group and Gender, 2014 220

Table 5.21 Number of Fatal Cocaine and/or Heroin Combination Deaths by Whether Alcohol Caused Death, 2014..... 220

Table 5.22 Number of Fatal Cocaine and/or Heroin Combination Death by Locality of Residence, 2014 221

Map 5.13 Number of Fatal Cocaine and/or Heroin Overdoses by Locality of Residence, 2014 224

Map 5.14 Rates of Fatal Cocaine and/or Heroin Overdose by Locality of Residence, 2014 225

Table 5.27 Number and Rate of Fatal Cocaine and/or Heroin Overdoses by Locality of Injury, 2014 226

Map 5.15 Number of Fatal Cocaine and/or Heroin Overdoses by Locality of Injury, 2014 229

Map 5.16 Rates of Fatal Cocaine and/or Heroin Overdoses by Locality of Injury, 2014 230
SECTION 6: GUN RELATED DEATHS (N=901) 231
Figure 6.1 Number and Rate of Gun Related Deaths by Year of Death, 2007-2014 231
Figure 6.2 Number of Gun Related Deaths by Year and Manner of Death, 2007-2014 232
Figure 6.3 Percentage of Gun Related Deaths by Manner of Death, 2014 232
Table 6.1 Number and Rate of Gun Related Deaths by OCME District and Manner of Death, 2014 233
Table 6.2 Number of Gun Related Deaths by Gun Type and Manner of Death, 2014 233
Figure 6.4 Percentage of Gun Related Deaths by Gender, 2014 234
Figure 6.5 Number and Rate of Gun Related Deaths by Age Group and Gender, 2014 234
Figure 6.6 Percentage of Gun Related Deaths by Race/Ethnicity, 2014 235
Figure 6.7 Number and Rate of Gun Related Deaths by Race/Ethnicity and Gender, 2014 235
Figure 6.8 Percentage of Gun Related Deaths by Ethanol Level (N=625), 2014 236
Figure 6.9 Number of Gun Related Deaths by Alcohol Level and Manner of Death (N=625), 2014 236
Figure 6.10 Number of Gun Related Deaths by Month of Death, 2014 237
Figure 6.11 Number of Gun Related Deaths by Day of Week, 2014 237
Table 6.3 Number and Rate of Gun Related Deaths by Locality of Residence, 2014 238
Map 6.1 Number of Gun Related Deaths by Locality of Residence, 2014 240
Map 6.2 Rates of Gun Related Death by Locality of Residence, 2014 241
Table 6.4 Number and Rate of Gun Related Deaths by Locality of Injury, 2014 242
Map 6.3 Number of Gun Related Deaths by Locality of Injury, 2014 244
Map 6.4 Number of Gun Related Deaths by Locality of Injury, 2014 245
SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=147) 246
Figure 7.1 Percentage of In-Custody Deaths by Manner of Death, 2014 246
Figure 7.2 Percentage of In-Custody Deaths by Race/Ethnicity, 2014 247
Figure 7.3 7 Number of In-Custody Deaths by Age Group and Gender, 2014 247
Figure 7.4 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2014 248
Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2014 248
SECTION 8: STATE MENTAL HEALTH DEATHS (N=63) 250
Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2014 250

Figure 8.2 Percentage of State Mental Health Deaths by Race/Ethnicity, 2014 251
Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2014 251
Table 8.1 Number of State Mental Health Deaths by Facility and Gender, 2014 252
Table 8.2 Number of State Mental Health Deaths by Facility and Race/Ethnicity, 2014 252
Table 8.3 Number of State Mental Health Deaths by Cause and Method of Death, 2014 252
SECTION 9: RETROSPECTIVE CASES (N=168) 254
Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2014 254
Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2014 255
Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2014 255
Table 9.1 Number of Retrospective Deaths by Cause and Method of Death, 2014 256
GLOSSARY 257

INTRODUCTION

Letter from the Chief Medical Examiner

The Department of Health's Office of the Chief Medical Examiner (OCME) is proud to present the 2014 annual report. Kathrin Hobron, MPH, the OCME Statewide Forensic Epidemiologist, and Mr. Chris Batten, the OCME IT 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 2014 include:

- The number of accidents, homicides, natural deaths, suicides, and undetermined deaths all increased in 2014 compared to 2013
- Norfolk City had the largest number of residential homicides (n=31), while Richmond City had the largest number of homicides by location of injury (n=45). Petersburg City had both the highest residential homicide rate and highest homicide rate by location of injury (rate of 36.7 and 42.8 per 100,000, respectively)

- Whites committed suicide at a rate 6.4 times that of Hispanics, 3.1 times that of Asians, 2.8 times that of Blacks, and 1.6 times that of Native Americans
- Motor vehicle deaths continue to decline each year and in 2014 represented a 2.9% decrease compared to 2013
- For the first time on record, in 2014 fatal drug overdoses became the most common cause of accidental death in the Commonwealth
- Prescription opioid deaths are a significant cause of injury and death in Virginia accounting for at least 55.5% of all drug/poison deaths in 2014; Oxycodone is the most common prescription opioid causing or contributing to a fatal overdose
- The number of fatal heroin overdoses continued to increase, with a 12.2% rise in the number of deaths from 2013 to 2014.

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 2014.

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 2014 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 is based upon both Virginia residents and non-Virginia residents, whose 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
  - Rates calculated from small case counts (<5) are considered unreliable and should be interpreted with caution
- 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 race are persons that are identified as more than one race and/or Hispanic ethnicity (excluding White)
- 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 2014, the OCME worked with approximately 164 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 2014

In 2014, the estimated population of the Commonwealth was 8,326,289 persons. The average age of Virginia residents was 37.5 years and females represented 50.8% of the population. Whites constituted 64.3% of the population, blacks 19.8%, Asians 6.7%, Native Americans 0.3% and Hispanics 8.9% 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 adult, 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 private 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, twelve 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 Virginia and in Virginia 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. A summary of recent efforts by these local teams can be found at http://www.dss.virginia.gov/files/about/reports/children/cps/all_other/2015/VDSS_CFRT_Annual_Report.pdf

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. Twenty 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 interpret a statewide needs assessment on 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 is using information learned during the assessment to develop resources for local fatality review teams to assist in more comprehensive review of fatalities involving these underserved victims.

The OCME also developed 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 College of Emergency Physicians; 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 Deaths From Drug Overdose in Virginia, 1999-2007. Published April, 2015.
- 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.
- Pregnancy-Associated Maternal Death in Virginia, 1999-2001, Published October, 2007.

Virginia's Sudden Death in the Young (SDY) Project began 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. In 2015, 31 potential cases were identified as Sudden Death in the Young. These deaths 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 involves 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.

Adult Fatality Review was established for Virginia localities effective July 1, 2015. Similar to child and domestic violence death review efforts, local communities may now convene such teams to examine deaths to any persons 60 years of age or older or any vulnerable or incapacitated adult 18 years of age or older, under three different scenarios: (1) persons who were the subject of an adult protective services or law enforcement investigation; (2) adults whose death was due to abuse, neglect, or exploitation or acts suggesting abuse, neglect, or exploitation; and (3) persons whose death was investigated by the Office of the Chief Medical Examiner as suspicious, unusual, or unnatural. Stakeholders in Virginia cities and counties are exploring ways to implement these teams to identify at risk populations in their communities, opportunities for improved response to adult abuse and neglect, and best practices for preventing further abuse and violence. Further information about these teams can be found at: http://www.vdh.virginia.gov/medExam/AdultFatality/overview.htm

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 2014-2015, the OCME trained two fellows and seventeen 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	4116	2473	1926	2419	**10934**
OCME Cases by Examination Type					
Complete examinations (autopsy)	784	672	677	821	**2954**
External examination (view)	979	668	620	766	**3033**
Partial examination	49	130	2	1	**182**
TOTAL CASES ACCEPTED BY THE OCME	**1812**	**1470**	**1299**	**1588**	**6169**
OCME Cases by Manner of Death					
Accident	786	673	486	687	**2632**
Homicide	116	50	125	67	**358**
Natural	569	372	375	513	**1829**
Suicide	326	320	234	266	**1146**
Undetermined	15	55	79	55	**204**
TOTAL CASES ACCEPTED BY THE OCME	**1812**	**1470**	**1299**	**1588**	**6169**

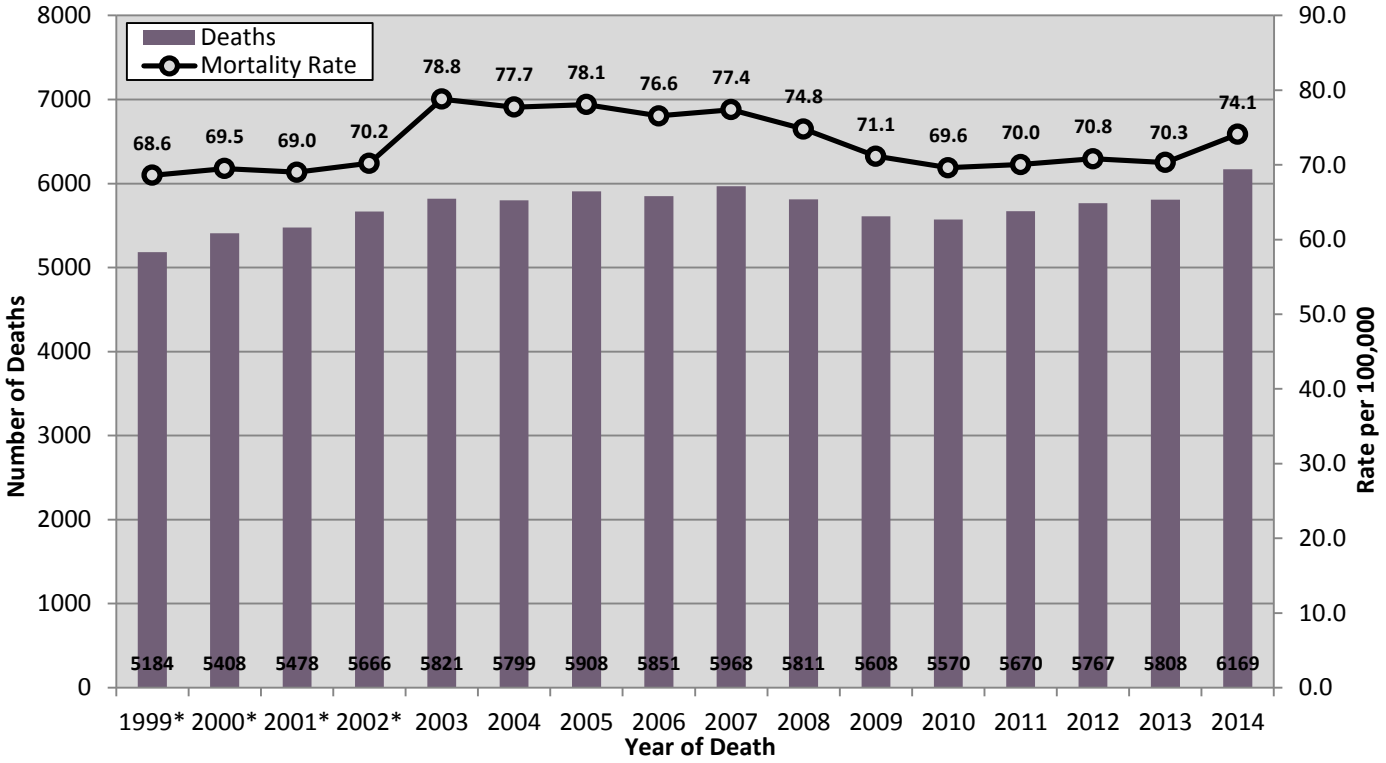
	Central	Northern	Tidewater	Western	Total
Bodies transported by office	1812	1470	1299	1588	6169
Bodies transported to office	1252	1126	876	1073	4327
Cases with toxicology (including retro cases)	875	1382	887	1550	4694
Exhumations	2	0	0	1	3
Eye donations	17	25	135	14	191
Hospital autopsies under OCME jurisdiction	0	0	0	0	0
OCME cases referred for organ and tissue donations	11	60	56	8	135
Retrospective cases (cases handled separately)	32	50	19	67	168
Scene visits	309	59	304	83	755
Unclaimed bodies	10	15	21	18	64
Unidentified bodies after examination	1	0	1	0	2

SECTION 1: TOTAL OCME CASES (N=6,169)

In 2014, the Office of the Chief Medical Examiner (OCME) investigated 10,934 deaths, which account for roughly 15% of the estimated total deaths in Virginia. The OCME accepted 6,169 or 56.4% of these deaths as either autopsies or external examinations (views). [NOTE: Retrospective cases are not included in the total case count, but are examined separately in Section 9. While these deaths were investigated in 2014, they may not necessarily have occurred in 2014]. The caseload for 2014 represented a 0.6% increase from 2013. Of the deaths investigated by the OCME in 2014:

- The number of accidents, homicides, natural deaths, suicides, and undetermined deaths all increased
- Blacks continue to share a higher burden of homicides compared to their portion within the general population
- White males continue to have the highest rate of suicide in the Commonwealth
- 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 OCME deaths, representing 17.9% of OCME cases
- Fairfax County had the largest number of both residential deaths (n=453) and deaths by injury locality (n=462), but Bath County and Greensville County had the highest rates of death by residential locality and injury locality (219.2 and 273.9 per 100,000, respectively)

Figure 1.1 Number and Rate of OCME Cases and Mortality Rate by Year of Death, 1999-2014



*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 Number of OCME Cases by Manner of Death, 1999-2014

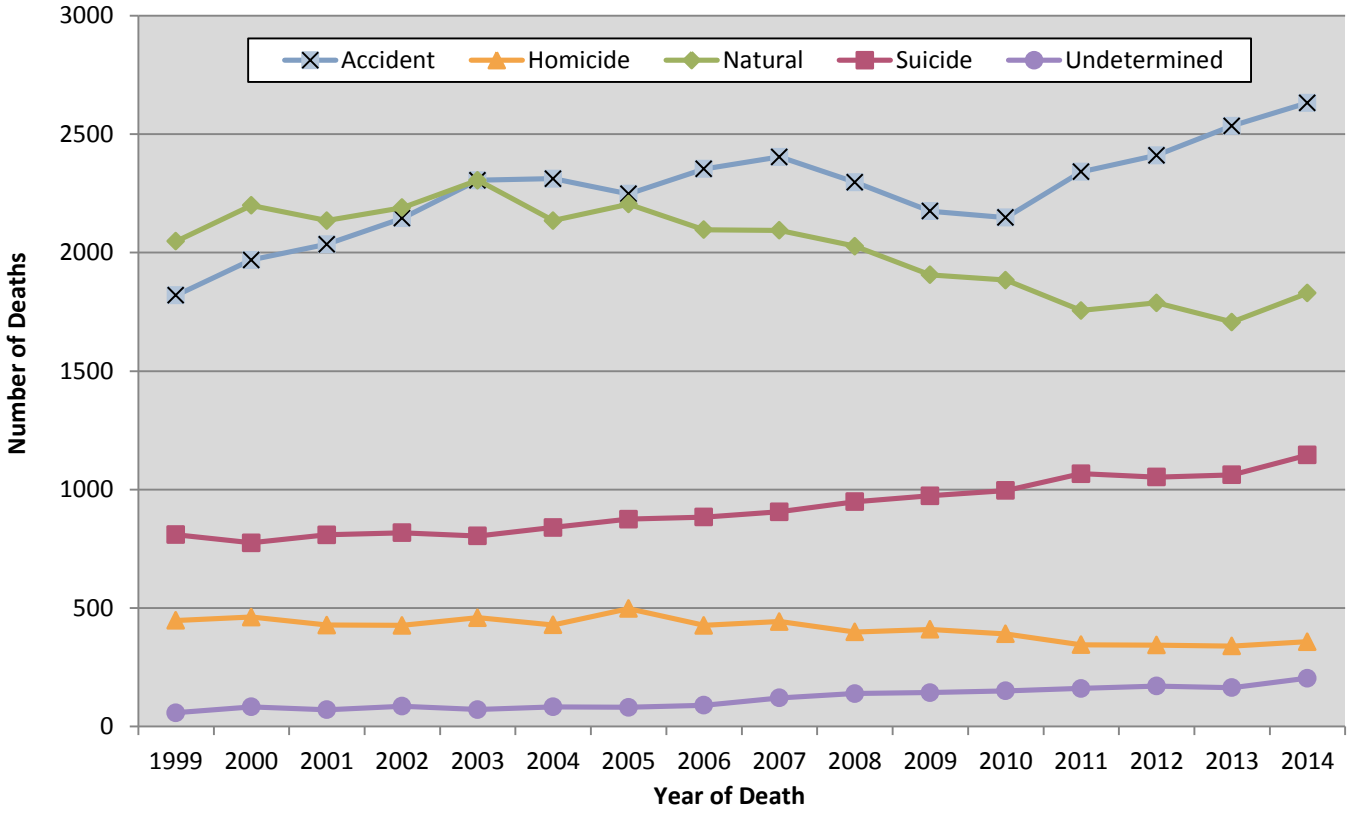


Figure 1.3 Percentage of OCME Cases by Manner of Death, 2014

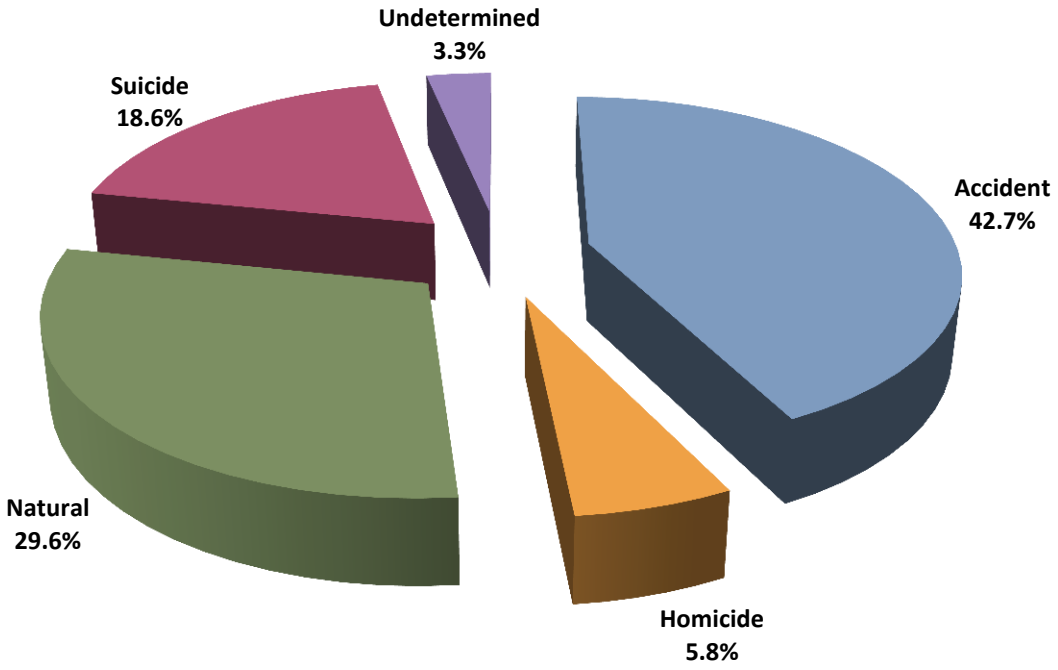


Table 1.1 Number of OCME Cases by District and Manner of Death, 2014

	OCME District				
Manner	**Central**	**Northern**	**Tidewater**	**Western**	**Total**
Accident	786	673	486	687	**2632**
Homicide	116	50	125	67	**358**
Natural	569	372	375	513	**1829**
Suicide	326	320	234	266	**1146**
Undetermined	15	55	79	55	**204**
TOTAL	**1812**	**1470**	**1299**	**1588**	**6169**

Table 1.2 Number of OCME Cases by Autopsy Status and District, 2014

	Autopsy Performed		
OCME District	**Yes**	**No**	**Total**
Central	833	979	**1812**
Northern	802	668	**1470**
Tidewater	679	620	**1299**
Western	822	766	**1588**
TOTAL	**3136**	**3033**	**6169**

Table 1.3 Number of OCME Cases by Manner of Death and Autopsy Status, 2014

	Manner of Death					
Autopsy	**Accident**	**Homicide**	**Natural**	**Suicide**	**Undetermined**	**Total**
Yes	986	358	732	875	185	**3136**
No	1646	0	1097	271	19	**3033**
% Yes	**37.5%**	**100.0%**	**40.0%**	**76.4%**	**90.7%**	**50.8%**
TOTAL	**2632**	**358**	**1829**	**1146**	**204**	**6169**

Table 1.4 Number and Percentage of OCME Cases by Race/Ethnicity, 2014

Race/Ethnicity	Cases	Percent
Asian	145	2.4%
Black	1205	19.5%
Hispanic	165	2.7%
Native American	14	0.2%
White	4571	74.1%
Other	66	1.1%
Unknown	3	0.0%
TOTAL	6169	100.0%

Figure 1.4 Number of OCME Cases by Manner of Death and Race/Ethnicity, 2014

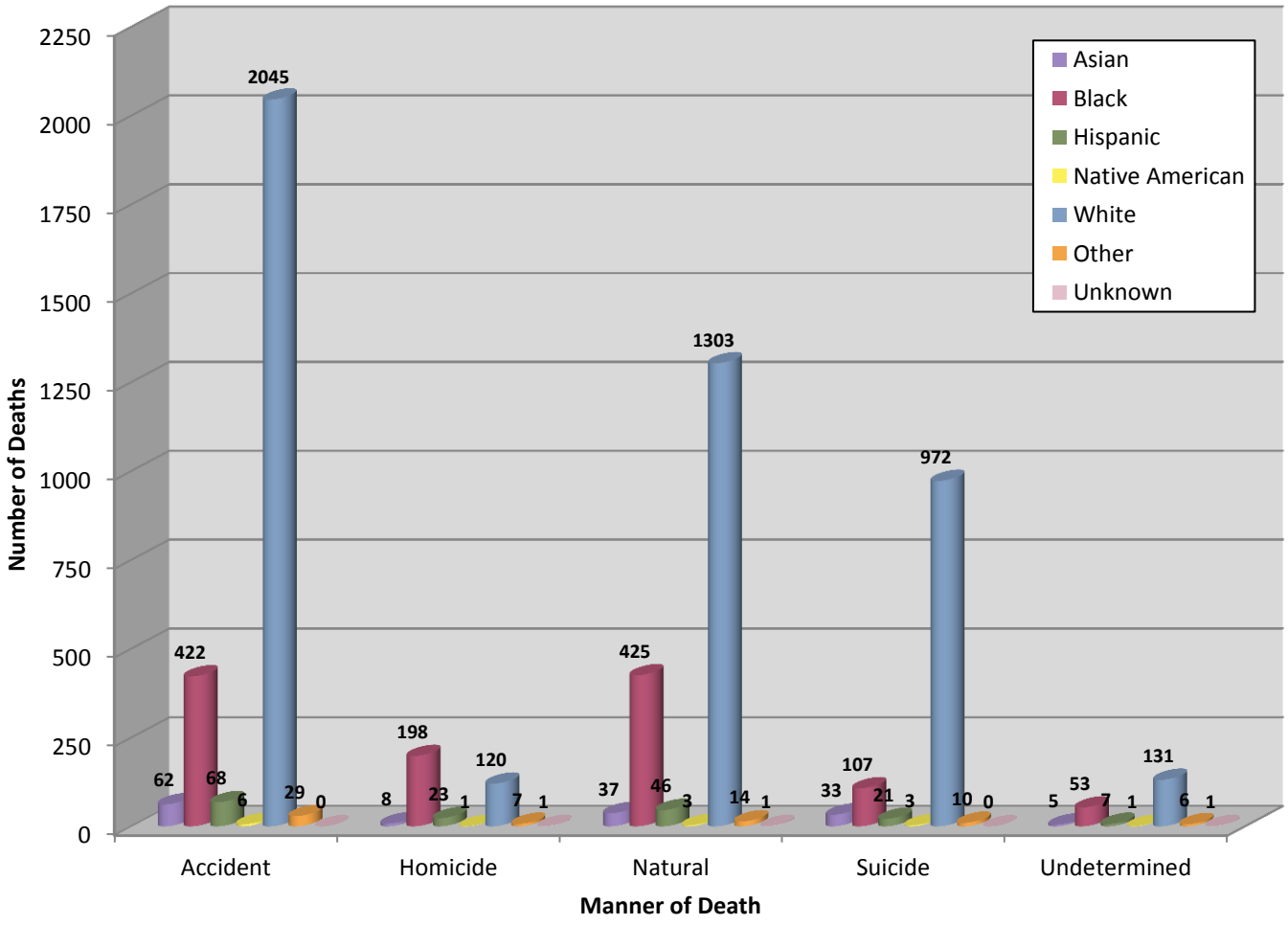


Figure 1.5 Number of OCME Cases by Age Group, 2014

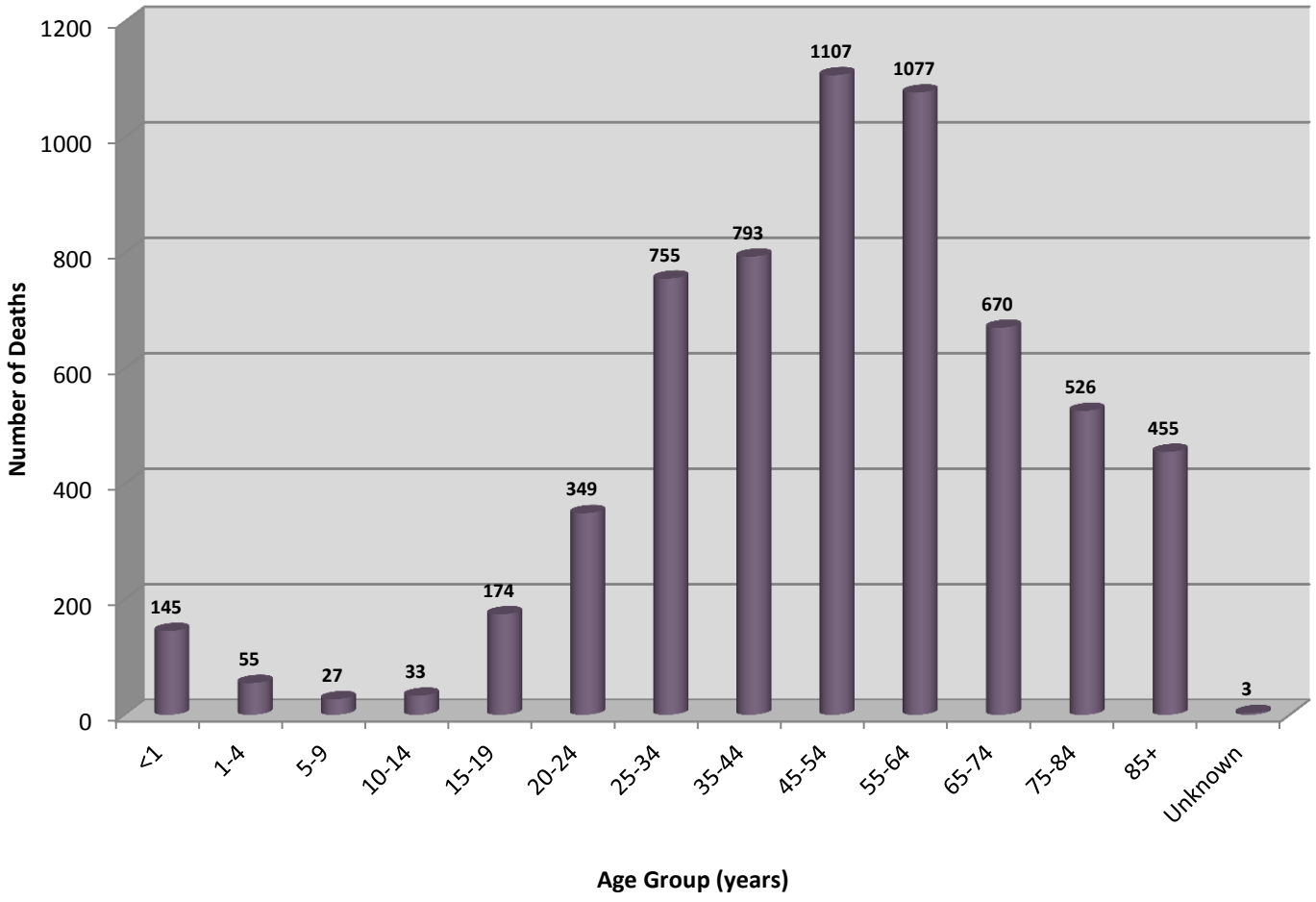


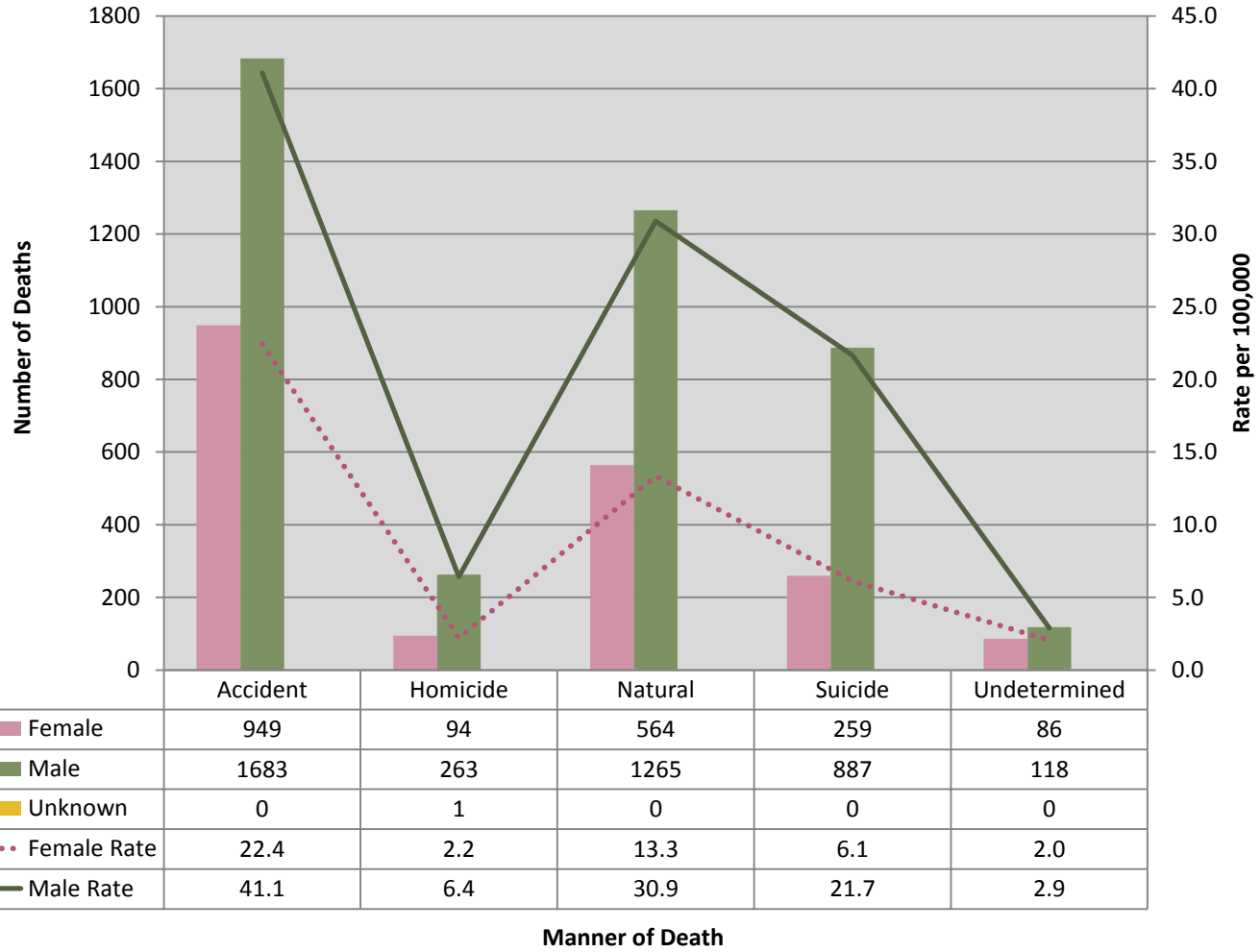
Table 1.5 Number and Percentage of OCME Cases by Gender, 2014

Gender	Cases	Percent
Female	1952	31.6%
Male	4216	68.3%
Unknown	1	0.0%
TOTAL	**6169**	**100%**

Table 1.6 Number and Percentage of OCME Cases by Manner of Death and Gender, 2014

	Manner of Death					
Gender	**Accident**	**Homicide**	**Natural**	**Suicide**	**Undetermined**	**Total**
Female	949 (15.4%)	94 (1.5%)	564 (9.1%)	259 (4.2%)	89 (1.4%)	**1952 (31.6%)**
Male	1683 (27.3%)	263 (4.3%)	1265 (20.5%)	887 (14.4%)	118 (1.9%)	**4216 (68.3%)**
Unknown	0 (0.0%)	1 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	**1 (0.0%)**
TOTAL	**2632**	**358**	**1829**	**1146**	**204**	**6169**

Figure 1.6 Number and Rate of OCME Cases by Manner of Death and Gender, 2014



	Accident	Homicide	Natural	Suicide	Undetermined
Female	949	94	564	259	86
Male	1683	263	1265	887	118
Unknown	0	1	0	0	0
Female Rate	22.4	2.2	13.3	6.1	2.0
Male Rate	41.1	6.4	30.9	21.7	2.9

Table 1.7 Number of OCME Cases by Manner of Death, Gender, and Age Group, 2014

		Manner of Death					
Gender	**Age Group**	**Accident**	**Homicide**	**Natural**	**Suicide**	**Undetermined**	**Total**
FEMALE	**<1**	15	3	15	0	31	**64**
	1-4	13	4	3	0	3	**23**
	5-9	5	4	0	0	1	**10**
	10-14	7	1	2	5	0	**15**
	15-19	20	6	5	13	1	**45**
	20-24	42	10	8	12	2	**74**
	25-34	109	16	28	35	3	**191**
	35-44	112	15	63	46	13	**249**
	45-54	113	15	110	65	11	**314**
	55-64	90	9	118	49	10	**276**
	65-74	79	8	92	23	7	**209**
	75-84	136	3	67	8	0	**214**
	85+	208	0	53	3	3	**267**
	Unknown	0	0	0	0	1	**1**
	Subtotal	**949**	**94**	**564**	**259**	**86**	**1952**
MALE	**<1**	19	4	6	0	53	**82**
	1-4	16	8	5	0	3	**32**
	5-9	11	3	3	0	0	**17**
	10-14	8	1	4	5	0	**18**
	15-19	53	26	3	45	2	**129**
	20-24	125	52	16	78	4	**275**
	25-34	270	71	68	147	8	**564**
	35-44	234	40	138	122	10	**544**
	45-54	282	27	301	168	15	**793**
	55-64	243	19	370	155	14	**801**
	65-74	125	9	232	91	4	**461**
	75-84	165	3	85	56	3	**312**
	85+	132	0	34	20	2	**188**
	Unknown	0	0	0	0	0	**0**
	Subtotal	**1683**	**263**	**1265**	**887**	**118**	**4216**
UNKNOWN	***Unknown***	**0**	**1**	**0**	**0**	**0**	**1**
	Subtotal	**0**	**1**	**0**	**0**	**0**	**1**
TOTAL		**2632**	**358**	**1829**	**1146**	**204**	**6169**

Figure 1.7 Number of OCME Cases by Month of Death, 2014

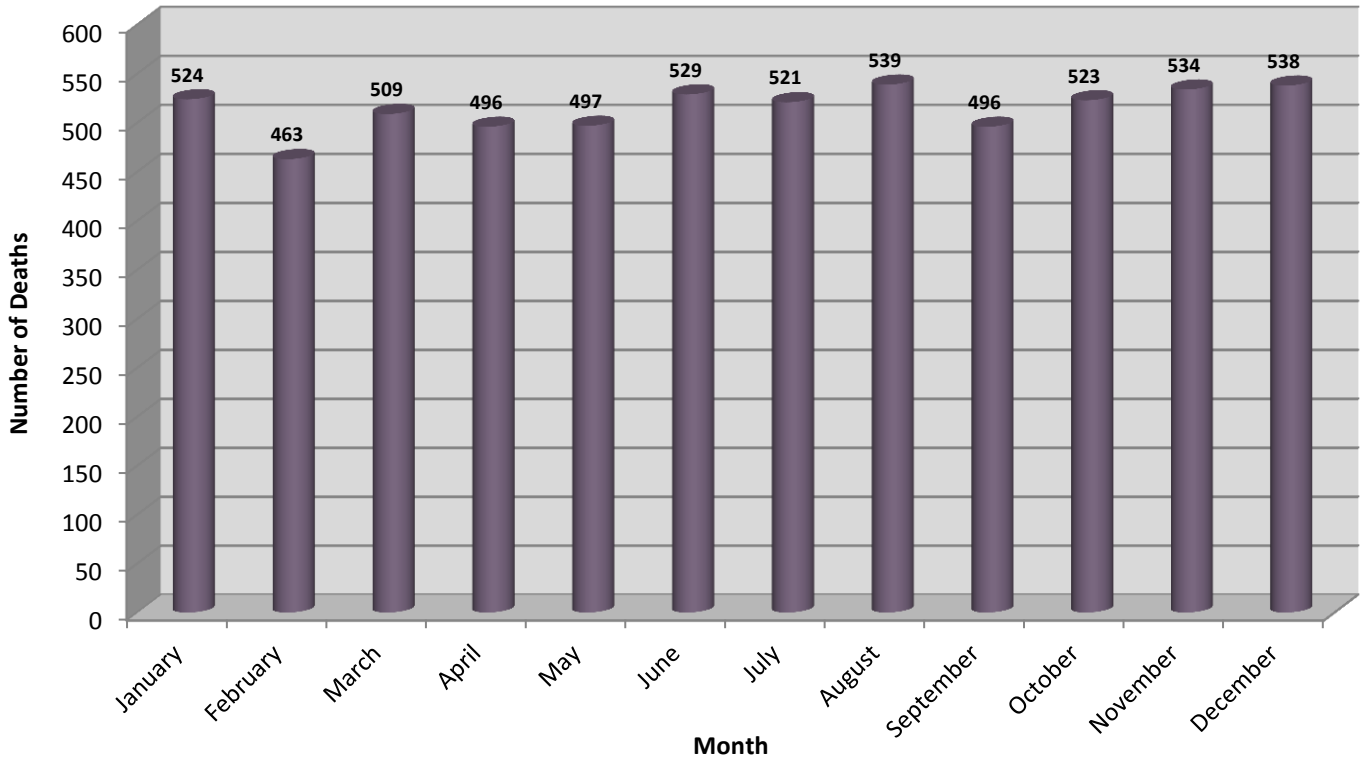


Figure 1.8 Number of OCME Cases by Month and Manner of Death, 2014

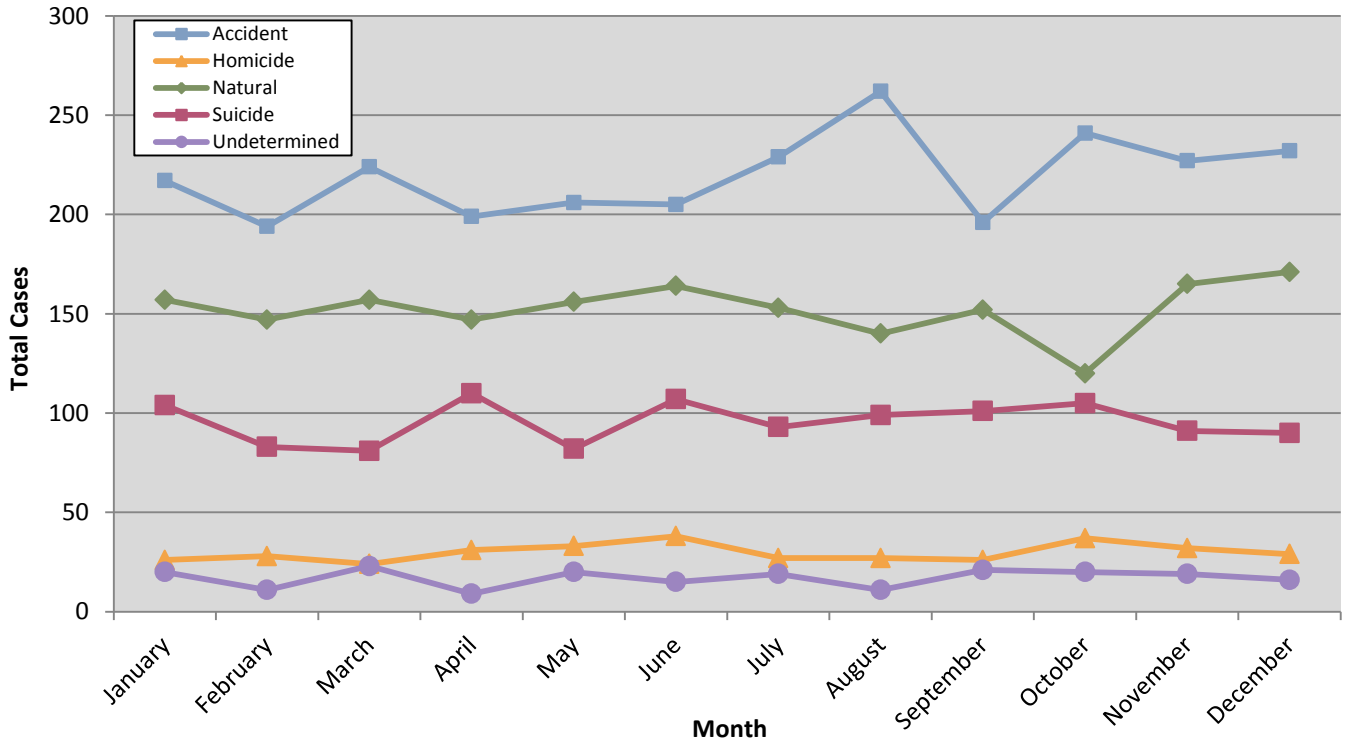


Figure 1.9 Number of OCME Cases by Day of Death, 2014

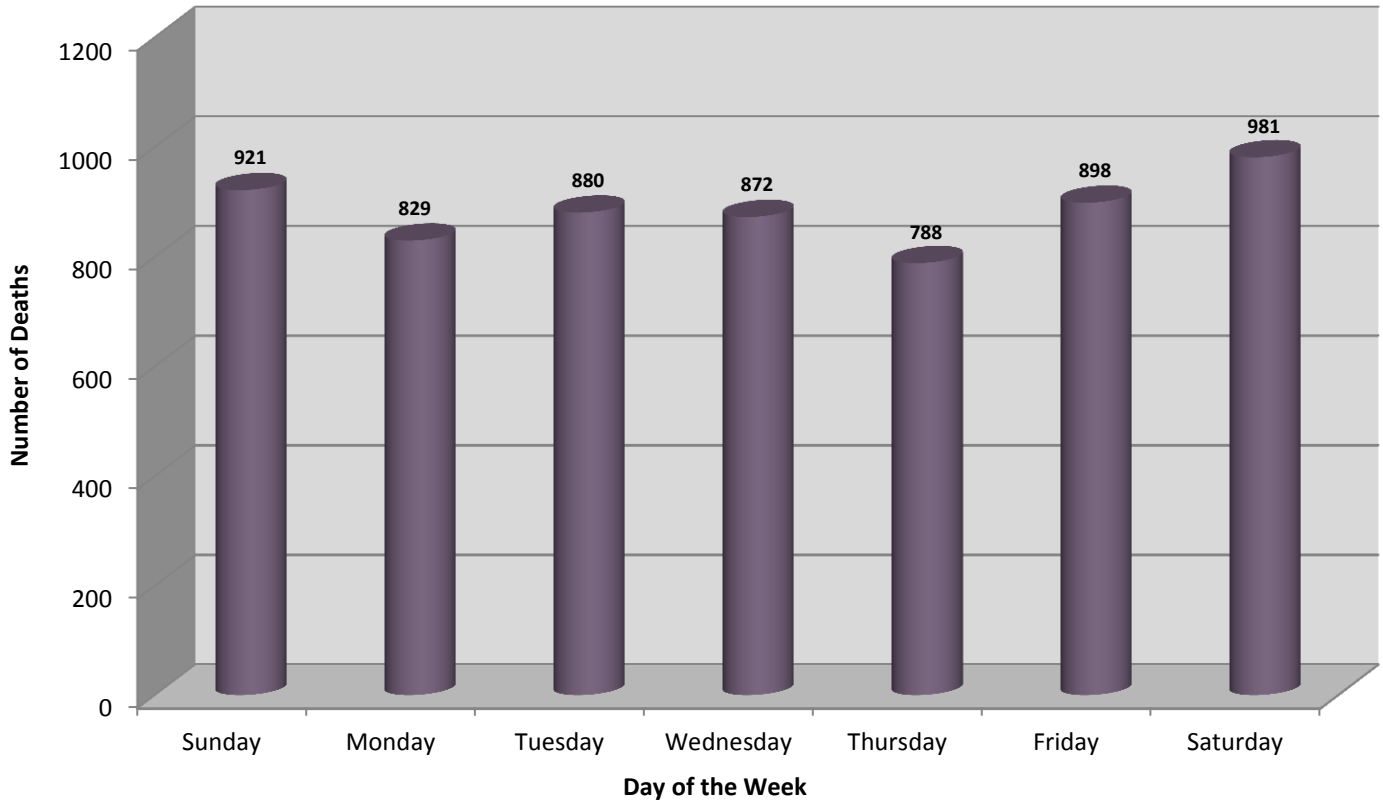


Figure 1.10 Number of OCME Cases by Day and Manner of Death, 2014

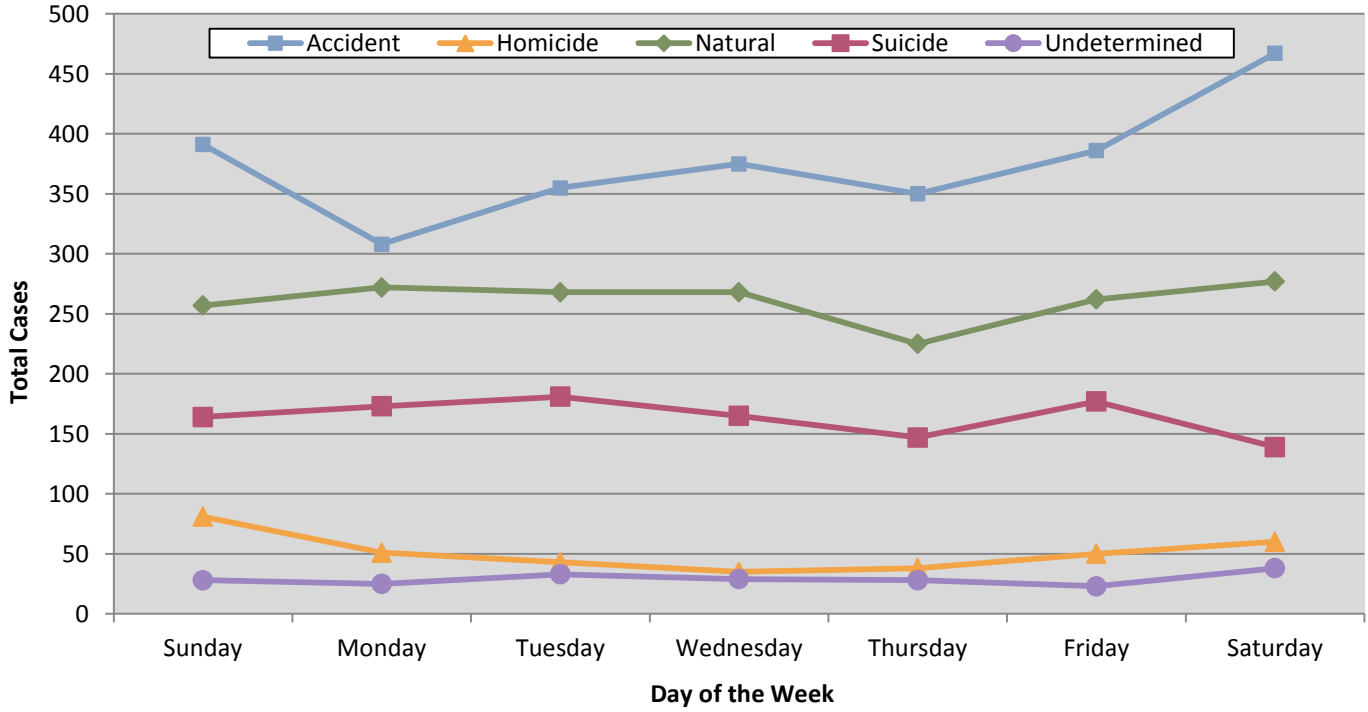


Table 1.8 Number and Rate of OCME Cases by Manner of Death and Locality of Residence, 2014

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Accomack County	11	33.3	4	12.1	11	33.3	5	15.1	2	6.1	**33**	**99.9**
Albemarle County	31	29.7	0	0.0	12	11.5	14	13.4	0	0.0	**57**	**54.6**
Alexandria City	21	13.9	4	2.7	16	10.6	12	8.0	6	4.0	**59**	**39.2**
Alleghany County	8	50.6	0	0.0	3	19.0	2	12.6	1	6.3	**14**	**88.5**
Amelia County	8	62.2	0	0.0	3	23.3	5	38.9	0	0.0	**16**	**124.5**
Amherst County	11	34.3	1	3.1	17	53.1	9	28.1	3	9.4	**41**	**128.0**
Appomattox County	7	45.8	1	6.5	5	32.7	1	6.5	0	0.0	**14**	**91.6**
Arlington County	26	11.5	1	0.4	35	15.4	18	7.9	5	2.2	**85**	**37.5**
Augusta County	25	33.8	3	4.1	17	23.0	19	25.7	2	2.7	**66**	**89.4**
Bath County	4	87.7	0	0.0	4	87.7	2	43.8	0	0.0	**10**	**219.2**
Bedford County	26	34.0	3	3.9	22	28.7	9	11.8	2	2.6	**62**	**81.0**
Bland County	2	30.2	0	0.0	5	75.5	3	45.3	0	0.0	**10**	**150.9**
Botetourt County	14	42.3	2	6.0	3	9.1	3	9.1	0	0.0	**22**	**66.5**
Bristol City	6	34.9	0	0.0	3	17.5	4	23.3	0	0.0	**13**	**75.7**
Brunswick County	9	54.6	0	0.0	3	18.2	2	12.1	0	0.0	**14**	**84.9**
Buchanan County	13	56.3	1	4.3	11	47.6	4	17.3	1	4.3	**30**	**129.8**
Buckingham County	7	41.4	3	17.7	6	35.5	2	11.8	0	0.0	**18**	**106.4**
Buena Vista City	0	0.0	0	0.0	2	30.3	0	0.0	0	0.0	**2**	**30.3**
Campbell County	20	36.4	2	3.6	21	38.3	6	10.9	2	3.6	**51**	**92.9**
Caroline County	6	20.1	0	0.0	10	33.6	11	36.9	0	0.0	**27**	**90.7**
Carroll County	18	60.8	1	3.4	8	27.0	5	16.9	1	3.4	**33**	**111.4**
Charles City County	1	14.2	0	0.0	2	28.5	2	28.5	0	0.0	**5**	**71.2**
Charlotte County	1	8.2	0	0.0	1	8.2	2	16.4	0	0.0	**4**	**32.7**

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Charlottesville City	11	24.1	6	13.2	8	17.5	5	11.0	0	0.0	**30**	**65.8**
Chesapeake City	57	24.4	13	5.6	46	19.7	31	13.3	4	1.7	**151**	**64.7**
Chesterfield County	97	29.2	16	4.8	48	14.4	49	14.7	1	0.3	**211**	**63.5**
Clarke County	6	41.6	0	0.0	3	20.8	4	27.7	0	0.0	**13**	**90.1**
Colonial Heights City	6	33.8	1	5.6	7	39.5	4	22.6	0	0.0	**18**	**101.5**
Covington City	1	17.2	0	0.0	3	51.7	1	17.2	0	0.0	**5**	**86.2**
Craig County	2	38.2	0	0.0	2	38.2	0	0.0	0	0.0	**4**	**76.4**
Culpeper County	23	46.8	6	12.2	6	12.2	13	26.4	2	4.1	**50**	**101.7**
Cumberland County	5	50.9	0	0.0	2	20.4	1	10.2	0	0.0	**8**	**81.4**
Danville City	20	47.1	3	7.1	20	47.1	7	16.5	6	14.1	**56**	**131.9**
Dickenson County	9	58.8	1	6.5	8	52.3	6	39.2	2	13.1	**26**	**169.8**
Dinwiddie County	12	43.1	0	0.0	11	39.5	4	14.4	0	0.0	**27**	**96.9**
Emporia City	3	54.9	2	36.6	1	18.3	0	0.0	0	0.0	**6**	**109.8**
Essex County	3	27.0	0	0.0	2	18.0	5	45.0	0	0.0	**10**	**90.1**
Fairfax City	11	44.9	0	0.0	6	24.5	4	16.3	0	0.0	**21**	**85.8**
Fairfax County	212	18.6	9	0.8	117	10.3	99	8.7	16	1.4	**453**	**39.8**
Falls Church City	3	22.1	0	0.0	2	14.7	0	0.0	0	0.0	**5**	**36.8**
Fauquier County	26	38.1	1	1.5	19	27.8	11	16.1	2	2.9	**59**	**86.4**
Floyd County	8	51.4	0	0.0	4	25.7	6	38.5	1	6.4	**19**	**122.0**
Fluvanna County	9	34.5	1	3.8	9	34.5	2	7.7	0	0.0	**21**	**80.5**
Franklin City	4	46.9	2	23.5	2	23.5	2	23.5	1	11.7	**11**	**129.0**
Franklin County	23	40.8	2	3.5	6	10.6	4	7.1	1	1.8	**36**	**63.9**
Frederick County	28	34.0	2	2.4	15	18.2	17	20.6	3	3.6	**65**	**78.9**
Fredericksburg City	6	21.2	1	3.5	7	24.7	3	10.6	0	0.0	**17**	**60.0**
Galax City	1	14.3	0	0.0	2	28.5	1	14.3	0	0.0	**4**	**57.0**

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Giles County	12	71.4	1	5.9	6	35.7	2	11.9	0	0.0	**21**	**124.9**
Gloucester County	16	43.1	1	2.7	18	48.5	4	10.8	1	2.7	**40**	**107.7**
Goochland County	6	27.4	1	4.6	4	18.2	3	13.7	1	4.6	**15**	**68.4**
Grayson County	3	19.9	0	0.0	4	26.5	3	19.9	1	6.6	**11**	**72.9**
Greene County	6	31.5	0	0.0	6	31.5	3	15.8	2	10.5	**17**	**89.3**
Greensville County	2	17.1	0	0.0	11	94.2	1	8.6	1	8.6	**15**	**128.4**
Halifax County	22	62.5	1	2.8	14	39.8	5	14.2	0	0.0	**42**	**119.3**
Hampton City	27	19.7	10	7.3	27	19.7	17	12.4	9	6.6	**90**	**65.8**
Hanover County	42	41.2	1	1.0	15	14.7	16	15.7	1	1.0	**75**	**73.6**
Harrisonburg City	11	21.0	1	1.9	7	13.3	5	9.5	2	3.8	**26**	**49.5**
Henrico County	86	26.7	12	3.7	45	14.0	38	11.8	4	1.2	**185**	**57.5**
Henry County	25	48.0	4	7.7	27	51.8	11	21.1	1	1.9	**68**	**130.6**
Highland County	1	44.5	0	0.0	0	0.0	2	89.0	0	0.0	**3**	**133.5**
Hopewell City	7	31.5	7	31.5	14	63.1	4	18.0	0	0.0	**32**	**144.2**
Isle of Wight County	13	36.1	1	2.8	7	19.4	8	22.2	1	2.8	**30**	**83.3**
James City County	17	23.4	0	0.0	13	17.9	12	16.5	0	0.0	**42**	**57.9**
King and Queen County	3	41.8	0	0.0	0	0.0	1	13.9	0	0.0	**4**	**55.7**
King George County	12	47.3	1	3.9	5	19.7	6	23.6	1	3.9	**25**	**98.5**
King William County	5	30.9	0	0.0	2	12.4	3	18.5	2	12.4	**12**	**74.1**
Lancaster County	3	27.2	1	9.1	3	27.2	2	18.1	0	0.0	**9**	**81.5**
Lee County	8	32.1	0	0.0	5	20.0	5	20.0	1	4.0	**19**	**76.1**
Lexington City	1	13.7	0	0.0	1	13.7	1	13.7	0	0.0	**3**	**41.0**
Loudoun County	61	16.8	5	1.4	19	5.2	39	10.7	3	0.8	**127**	**35.0**
Louisa County	12	34.9	1	2.9	8	23.3	0	0.0	0	0.0	**21**	**61.1**
Lunenburg County	7	56.2	0	0.0	2	16.0	2	16.0	0	0.0	**11**	**88.2**

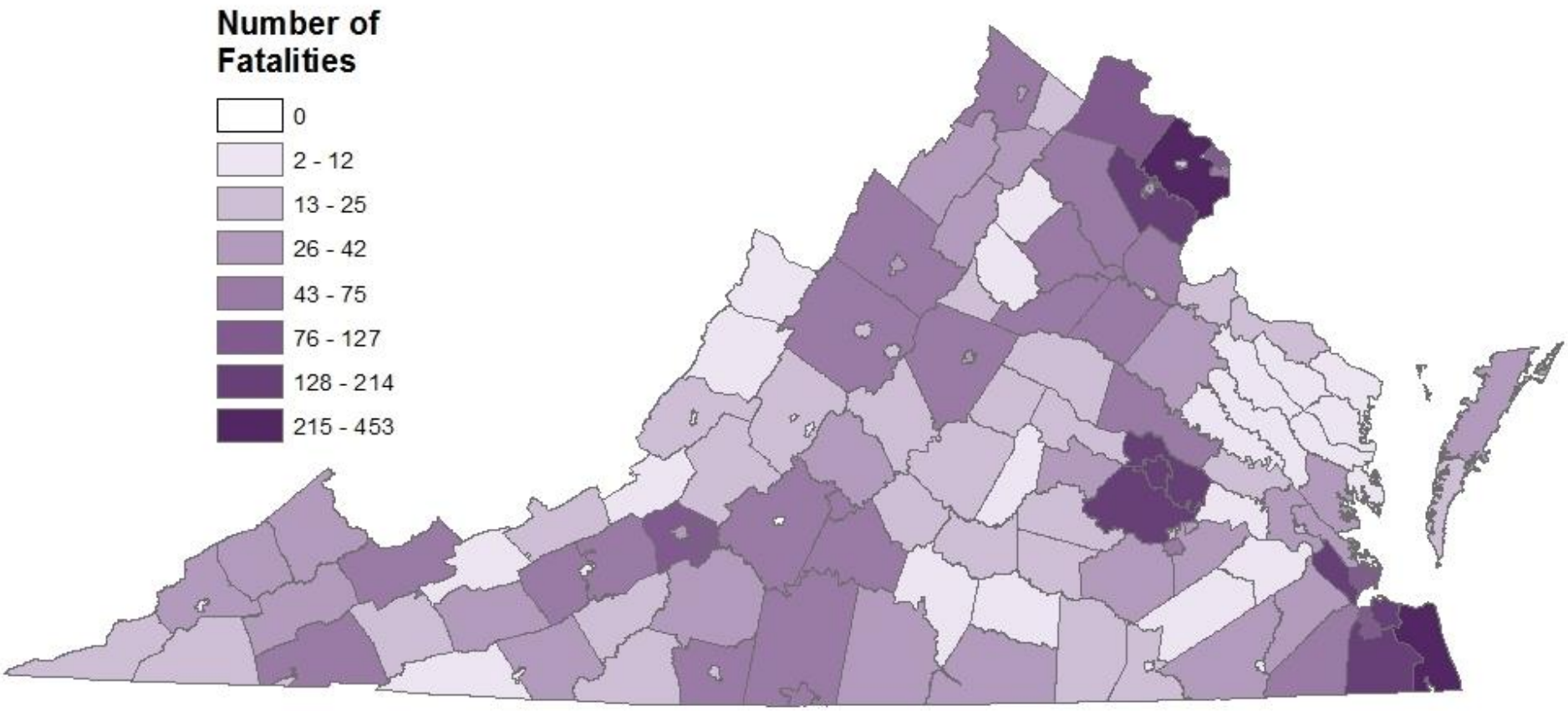
Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Lynchburg City	21	26.6	6	7.6	16	20.2	7	8.9	3	3.8	**53**	**67.0**
Madison County	5	38.0	0	0.0	3	22.8	3	22.8	0	0.0	**11**	**83.6**
Manassas	13	30.9	1	2.4	10	23.8	7	16.6	3	7.1	**34**	**80.8**
Manassas Park	4	26.4	0	0.0	1	6.6	1	6.6	0	0.0	**6**	**39.5**
Martinsville City	10	72.9	1	7.3	10	72.9	1	7.3	0	0.0	**22**	**160.5**
Mathews County	2	22.6	1	11.3	0	0.0	3	34.0	0	0.0	**6**	**67.9**
Mecklenburg County	11	35.3	1	3.2	12	38.5	4	12.8	0	0.0	**28**	**89.8**
Middlesex County	6	56.1	0	0.0	5	46.7	0	0.0	0	0.0	**11**	**102.8**
Montgomery County	19	19.5	2	2.1	16	16.5	9	9.3	1	1.0	**47**	**48.3**
Nelson County	10	67.3	1	6.7	7	47.1	2	13.5	0	0.0	**20**	**134.7**
New Kent County	4	20.0	0	0.0	6	30.0	5	25.0	0	0.0	**15**	**74.9**
Newport News City	54	29.5	21	11.5	37	20.2	27	14.8	8	4.4	**147**	**80.3**
Norfolk City	72	29.3	31	12.6	69	28.1	32	13.0	10	4.1	**214**	**87.2**
Northampton County	8	66.0	0	0.0	2	16.5	3	24.8	0	0.0	**13**	**107.3**
Northumberland County	6	49.0	0	0.0	2	16.3	1	8.2	0	0.0	**9**	**73.5**
Norton City	1	24.8	0	0.0	1	24.8	0	0.0	0	0.0	**2**	**49.6**
Nottoway County	5	32.1	1	6.4	7	44.9	4	25.7	0	0.0	**17**	**109.1**
Orange County	28	79.9	2	5.7	7	20.0	9	25.7	2	5.7	**48**	**137.0**
Page County	8	33.5	4	16.8	8	33.5	10	41.9	1	4.2	**31**	**130.0**
Patrick County	8	43.8	2	11.0	8	43.8	4	21.9	0	0.0	**22**	**120.5**
Petersburg City	12	36.7	12	36.7	23	70.3	6	18.3	0	0.0	**53**	**162.1**
Pittsylvania County	27	43.3	3	4.8	24	38.5	6	9.6	1	1.6	**61**	**97.8**
Poquoson City	1	8.3	0	0.0	2	16.6	1	8.3	0	0.0	**4**	**33.2**
Portsmouth City	32	33.3	13	13.5	36	37.5	10	10.4	3	3.1	**94**	**97.9**
Powhatan County	11	38.7	0	0.0	14	49.2	4	14.1	0	0.0	**29**	**101.9**

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Prince Edward County	7	30.3	1	4.3	7	30.3	3	13.0	0	0.0	**18**	**78.0**
Prince George County	9	24.1	1	2.7	13	34.8	7	18.8	1	2.7	**31**	**83.0**
Prince William County	78	17.5	7	1.6	51	11.4	37	8.3	6	1.3	**179**	**40.1**
Pulaski County	25	72.8	4	11.7	14	40.8	2	5.8	2	5.8	**47**	**136.9**
Radford City	5	28.3	0	0.0	3	17.0	1	5.7	0	0.0	**9**	**51.0**
Rappahannock County	2	27.2	0	0.0	2	27.2	1	13.6	1	13.6	**6**	**81.5**
Richmond City	79	36.3	31	14.2	73	33.5	22	10.1	1	0.5	**206**	**94.6**
Richmond County	6	67.4	0	0.0	3	33.7	0	0.0	0	0.0	**9**	**101.1**
Roanoke City	40	40.2	2	2.0	32	32.2	19	19.1	6	6.0	**99**	**99.6**
Roanoke County	44	46.9	1	1.1	19	20.3	19	20.3	3	3.2	**86**	**91.7**
Rockbridge County	10	44.8	0	0.0	2	9.0	5	22.4	0	0.0	**17**	**76.1**
Rockingham County	34	43.5	3	3.8	12	15.4	11	14.1	0	0.0	**60**	**76.8**
Russell County	13	46.4	3	10.7	10	35.7	4	14.3	3	10.7	**33**	**117.8**
Salem City	12	47.1	0	0.0	8	31.4	9	35.3	1	3.9	**30**	**117.7**
Scott County	6	26.8	0	0.0	6	26.8	2	8.9	0	0.0	**14**	**62.5**
Shenandoah County	21	48.8	1	2.3	10	23.2	7	16.3	2	4.6	**41**	**95.3**
Smyth County	8	25.4	0	0.0	9	28.5	5	15.8	1	3.2	**23**	**72.9**
Southampton County	12	66.4	0	0.0	15	83.1	0	0.0	1	5.5	**28**	**155.0**
Spotsylvania County	40	31.0	1	0.8	19	14.7	14	10.8	1	0.8	**75**	**58.1**
Stafford County	27	19.3	1	0.7	17	12.1	10	7.1	0	0.0	**55**	**39.3**
Staunton City	10	40.8	3	12.2	8	32.6	2	8.2	0	0.0	**23**	**93.7**
Suffolk City	23	26.5	3	3.5	16	18.4	11	12.7	6	6.9	**59**	**68.0**
Surry County	1	14.7	0	0.0	6	88.4	0	0.0	0	0.0	**7**	**103.1**
Sussex County	4	34.0	0	0.0	2	17.0	1	8.5	0	0.0	**7**	**59.5**
Tazewell County	23	52.9	1	2.3	21	48.3	6	13.8	2	4.6	**53**	**122.0**

Locality of Residence	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Virginia Beach City	124	27.5	18	4.0	78	17.3	65	14.4	21	4.7	**306**	**67.9**
Warren County	16	41.0	1	2.6	8	20.5	9	23.1	1	2.6	**35**	**89.8**
Washington County	15	27.4	6	11.0	17	31.1	8	14.6	2	3.7	**48**	**87.7**
Waynesboro City	9	42.1	1	4.7	7	32.8	2	9.4	2	9.4	**21**	**98.3**
Westmoreland County	8	45.8	1	5.7	7	40.1	4	22.9	0	0.0	**20**	**114.4**
Williamsburg City	4	27.2	1	6.8	6	40.8	3	20.4	1	6.8	**15**	**102.1**
Winchester City	14	50.8	0	0.0	9	32.7	7	25.4	0	0.0	**30**	**108.9**
Wise County	14	35.1	2	5.0	13	32.6	8	20.0	1	2.5	**38**	**95.2**
Wythe County	20	68.7	1	3.4	7	24.0	2	6.9	0	0.0	**30**	**103.0**
York County	13	19.6	3	4.5	8	12.1	9	13.6	4	6.0	**37**	**55.8**
Subtotal (in-state)	**2423**	**29.1**	**339**	**4.1**	**1703**	**20.5**	**1086**	**13.0**	**196**	**2.4**	**5747**	**69.0**
Out of State	195	ND	16	ND	120	ND	57	ND	7	ND	**395**	**ND**
Unknown	14	ND	3	ND	6	ND	3	ND	1	ND	**27**	**ND**
Subtotal (out-of-state)	**209**	**ND**	**19**	**ND**	**126**	**ND**	**60**	**ND**	**8**	**ND**	**422**	**ND**
TOTAL	**2632**	**31.6**	**358**	**4.3**	**1829**	**22.0**	**1146**	**13.8**	**204**	**2.5**	**6169**	**74.1**

Note: No denominator is represented by ND

Map 1.1 Number of OCME Cases by Locality of Residence, 2014



Map 1.2 Rates of OCME Cases by Locality of Residence, 2014

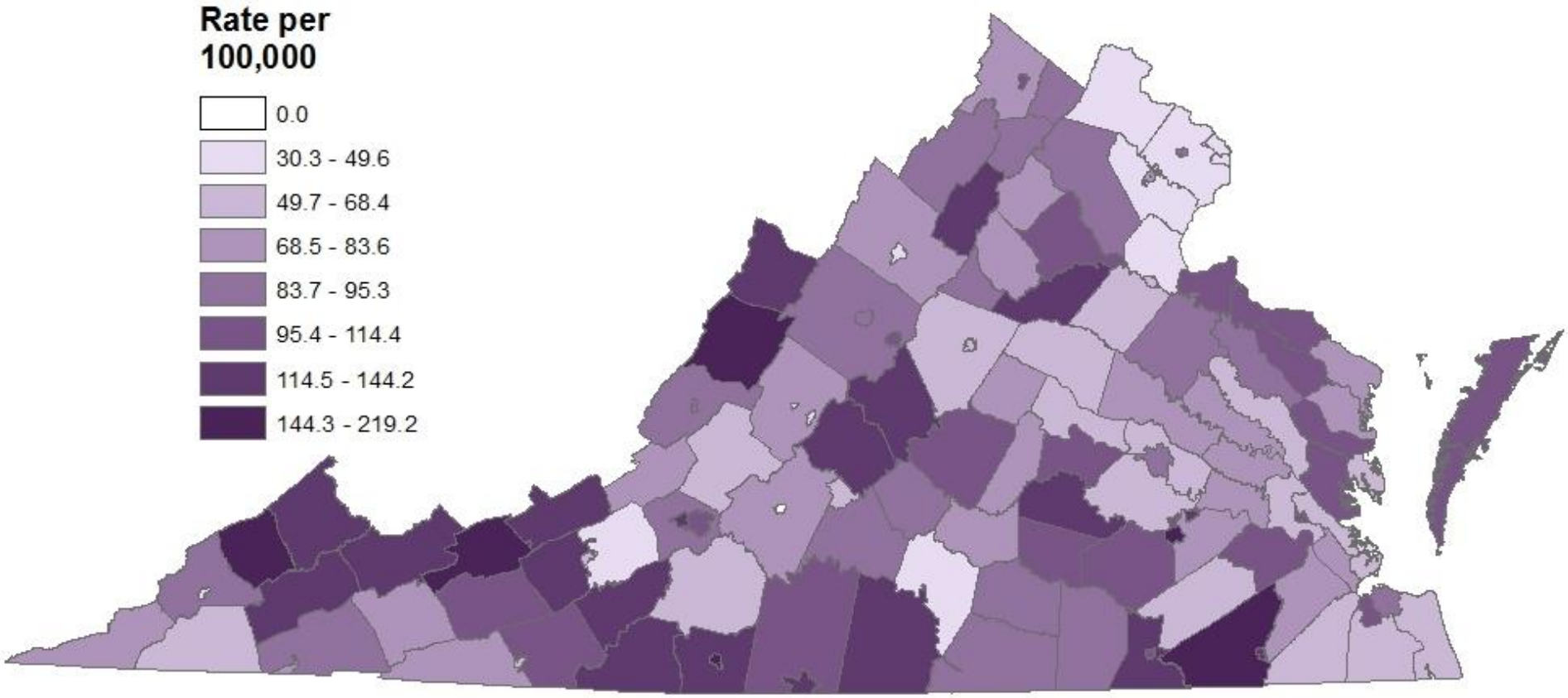


Table 1.9 Number and Rate of OCME Cases by Manner of Death and Locality of Injury, 2014

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Accomack County	15	45.4	4	12.1	10	30.3	4	12.1	2	6.1	**35**	**106.0**
Albemarle County	44	42.1	1	1.0	13	12.4	15	14.4	0	0.0	**73**	**69.9**
Alexandria City	21	13.9	3	2.0	23	15.3	15	10.0	6	4.0	**68**	**45.2**
Alleghany County	9	56.9	0	0.0	3	19.0	2	12.6	1	6.3	**15**	**94.8**
Amelia County	7	54.5	1	7.8	3	23.3	5	38.9	0	0.0	**16**	**124.5**
Amherst County	12	37.5	1	3.1	17	53.1	10	31.2	3	9.4	**43**	**134.2**
Appomattox County	8	52.4	2	13.1	5	32.7	2	13.1	0	0.0	**17**	**111.3**
Arlington County	31	13.7	1	0.4	36	15.9	18	7.9	6	2.6	**92**	**40.5**
Augusta County	29	39.3	4	5.4	17	23.0	20	27.1	2	2.7	**72**	**97.5**
Bath County	1	21.9	0	0.0	4	87.7	2	43.8	0	0.0	**7**	**153.4**
Bedford County	24	31.3	4	5.2	22	28.7	10	13.1	2	2.6	**62**	**81.0**
Bland County	3	45.3	0	0.0	8	120.8	3	45.3	0	0.0	**14**	**211.3**
Botetourt County	14	42.3	1	3.0	4	12.1	1	3.0	0	0.0	**20**	**60.4**
Bristol City	6	34.9	0	0.0	3	17.5	5	29.1	0	0.0	**14**	**81.5**
Brunswick County	11	66.7	0	0.0	2	12.1	2	12.1	0	0.0	**15**	**90.9**
Buchanan County	15	64.9	1	4.3	12	51.9	3	13.0	1	4.3	**32**	**138.5**
Buckingham County	15	88.7	2	11.8	8	47.3	2	11.8	0	0.0	**27**	**159.6**
Buena Vista City	1	15.1	0	0.0	1	15.1	0	0.0	0	0.0	**2**	**30.3**
Campbell County	20	36.4	1	1.8	21	38.3	8	14.6	2	3.6	**52**	**94.7**
Caroline County	7	23.5	0	0.0	10	33.6	12	40.3	0	0.0	**29**	**97.4**
Carroll County	19	64.1	1	3.4	11	37.1	6	20.3	2	6.8	**39**	**131.7**
Charles City County	5	71.2	0	0.0	2	28.5	2	28.5	0	0.0	**9**	**128.2**
Charlotte County	4	32.7	0	0.0	3	24.5	1	8.2	0	0.0	**8**	**65.4**

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Charlottesville City	13	28.5	5	11.0	7	15.4	6	13.2	0	0.0	**31**	**68.0**
Chesapeake City	59	25.3	11	4.7	47	20.1	31	13.3	4	1.7	**152**	**65.1**
Chesterfield County	89	26.8	9	2.7	39	11.7	49	14.7	1	0.3	**187**	**56.2**
Clarke County	8	55.5	0	0.0	3	20.8	3	20.8	1	6.9	**15**	**104.0**
Colonial Heights City	6	33.8	1	5.6	7	39.5	6	33.8	0	0.0	**20**	**112.8**
Covington City	3	51.7	0	0.0	3	51.7	1	17.2	0	0.0	**7**	**120.6**
Craig County	3	57.3	0	0.0	2	38.2	0	0.0	0	0.0	**5**	**95.5**
Culpeper County	27	54.9	6	12.2	8	16.3	9	18.3	1	2.0	**51**	**103.7**
Cumberland County	2	20.4	0	0.0	1	10.2	1	10.2	0	0.0	**4**	**40.7**
Danville City	20	47.1	3	7.1	22	51.8	9	21.2	5	11.8	**59**	**139.0**
Dickenson County	10	65.3	1	6.5	8	52.3	7	45.7	1	6.5	**27**	**176.4**
Dinwiddie County	6	21.5	0	0.0	11	39.5	3	10.8	0	0.0	**20**	**71.8**
Emporia City	1	18.3	2	36.6	1	18.3	0	0.0	0	0.0	**4**	**73.2**
Essex County	5	45.0	1	9.0	1	9.0	5	45.0	0	0.0	**12**	**108.1**
Fairfax City	11	44.9	0	0.0	9	36.8	3	12.3	0	0.0	**23**	**93.9**
Fairfax County	210	18.5	8	0.7	120	10.5	107	9.4	17	1.5	**462**	**40.6**
Falls Church City	4	29.4	0	0.0	1	7.4	0	0.0	0	0.0	**5**	**36.8**
Fauquier County	28	41.0	2	2.9	20	29.3	9	13.2	2	2.9	**61**	**89.4**
Floyd County	8	51.4	0	0.0	5	32.1	6	38.5	1	6.4	**20**	**128.4**
Fluvanna County	6	23.0	1	3.8	14	53.7	2	7.7	0	0.0	**23**	**88.1**
Franklin City	3	35.2	2	23.5	2	23.5	2	23.5	1	11.7	**10**	**117.3**
Franklin County	23	40.8	3	5.3	9	16.0	6	10.6	1	1.8	**42**	**74.5**
Frederick County	36	43.7	2	2.4	17	20.6	20	24.3	2	2.4	**77**	**93.5**
Fredericksburg City	8	28.2	0	0.0	10	35.3	3	10.6	0	0.0	**21**	**74.1**
Galax City	2	28.5	0	0.0	3	42.8	1	14.3	0	0.0	**6**	**85.5**

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Giles County	14	83.3	1	5.9	8	47.6	2	11.9	0	0.0	**25**	**148.7**
Gloucester County	13	35.0	0	0.0	16	43.1	4	10.8	1	2.7	**34**	**91.5**
Goochland County	6	27.4	1	4.6	4	18.2	4	18.2	0	0.0	**15**	**68.4**
Grayson County	5	33.1	0	0.0	6	39.8	4	26.5	1	6.6	**16**	**106.0**
Greene County	7	36.8	0	0.0	4	21.0	2	10.5	2	10.5	**15**	**78.8**
Greensville County	9	77.0	0	0.0	21	179.8	1	8.6	1	8.6	**32**	**273.9**
Halifax County	23	65.3	1	2.8	17	48.3	6	17.0	0	0.0	**47**	**133.5**
Hampton City	29	21.2	10	7.3	27	19.7	18	13.2	8	5.8	**92**	**67.2**
Hanover County	42	41.2	1	1.0	13	12.8	16	15.7	1	1.0	**73**	**71.6**
Harrisonburg City	10	19.1	1	1.9	8	15.2	6	11.4	1	1.9	**26**	**49.5**
Henrico County	87	27.0	10	3.1	53	16.5	36	11.2	3	0.9	**189**	**58.7**
Henry County	28	53.8	2	3.8	31	59.5	10	19.2	0	0.0	**71**	**136.3**
Highland County	2	89.0	0	0.0	0	0.0	1	44.5	0	0.0	**3**	**133.5**
Hopewell City	7	31.5	5	22.5	14	63.1	5	22.5	1	4.5	**32**	**144.2**
Isle of Wight County	15	41.7	1	2.8	6	16.7	5	13.9	2	5.6	**29**	**80.5**
James City County	16	22.0	1	1.4	13	17.9	12	16.5	0	0.0	**42**	**57.9**
King and Queen County	4	55.7	0	0.0	0	0.0	1	13.9	1	13.9	**6**	**83.6**
King George County	16	63.1	1	3.9	6	23.6	5	19.7	1	3.9	**29**	**114.3**
King William County	5	30.9	0	0.0	3	18.5	3	18.5	1	6.2	**12**	**74.1**
Lancaster County	2	18.1	0	0.0	3	27.2	2	18.1	0	0.0	**7**	**63.4**
Lee County	7	28.1	0	0.0	5	20.0	5	20.0	1	4.0	**18**	**72.1**
Lexington City	1	13.7	0	0.0	0	0.0	1	13.7	0	0.0	**2**	**27.4**
Loudoun County	64	17.6	7	1.9	20	5.5	34	9.4	3	0.8	**128**	**35.3**
Louisa County	6	17.5	1	2.9	8	23.3	2	5.8	0	0.0	**17**	**49.5**
Lunenburg County	5	40.1	0	0.0	2	16.0	2	16.0	0	0.0	**9**	**72.2**

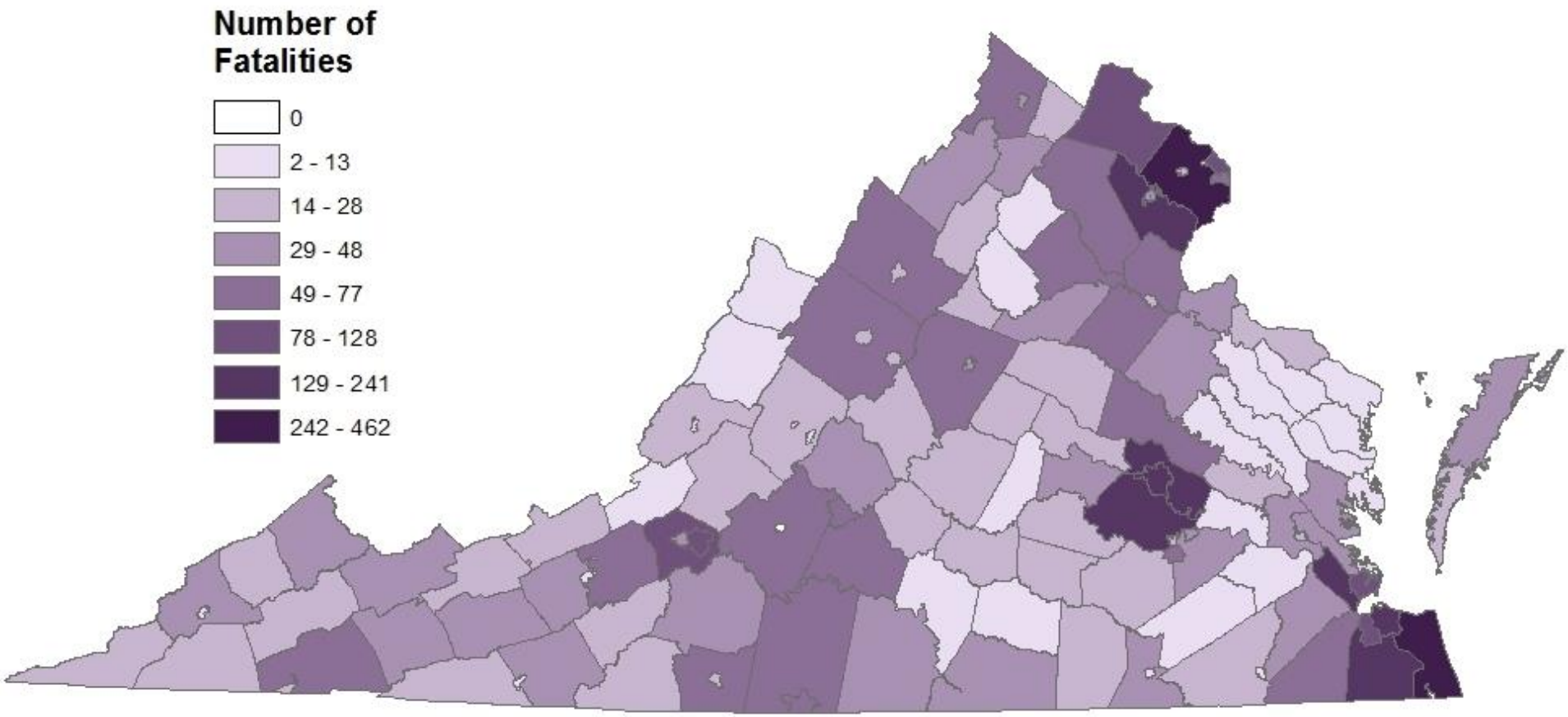
Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Lynchburg City	26	32.9	6	7.6	17	21.5	7	8.9	3	3.8	**59**	**74.6**
Madison County	5	38.0	0	0.0	3	22.8	4	30.4	0	0.0	**12**	**91.2**
Manassas	9	21.4	1	2.4	10	23.8	6	14.3	3	7.1	**29**	**68.9**
Manassas Park	5	33.0	0	0.0	2	13.2	4	26.4	0	0.0	**11**	**72.5**
Martinsville City	8	58.3	2	14.6	7	51.1	2	14.6	0	0.0	**19**	**138.6**
Mathews County	3	34.0	0	0.0	0	0.0	3	34.0	0	0.0	**6**	**67.9**
Mecklenburg County	16	51.3	1	3.2	12	38.5	3	9.6	0	0.0	**32**	**102.6**
Middlesex County	6	56.1	2	18.7	4	37.4	0	0.0	1	9.3	**13**	**121.5**
Montgomery County	23	23.7	2	2.1	17	17.5	11	11.3	1	1.0	**54**	**55.5**
Nelson County	11	74.1	0	0.0	7	47.1	3	20.2	0	0.0	**21**	**141.4**
New Kent County	11	54.9	0	0.0	7	35.0	5	25.0	0	0.0	**23**	**114.9**
Newport News City	54	29.5	24	13.1	39	21.3	25	13.7	8	4.4	**150**	**82.0**
Norfolk City	68	27.7	34	13.9	71	28.9	34	13.9	14	5.7	**221**	**90.0**
Northampton County	12	99.0	0	0.0	2	16.5	3	24.8	0	0.0	**17**	**140.3**
Northumberland County	7	57.1	0	0.0	4	32.7	1	8.2	0	0.0	**12**	**98.0**
Norton City	0	0.0	0	0.0	2	49.6	0	0.0	1	24.8	**3**	**74.4**
Nottoway County	8	51.4	1	6.4	9	57.8	5	32.1	0	0.0	**23**	**147.6**
Orange County	25	71.4	2	5.7	6	17.1	9	25.7	3	8.6	**45**	**128.5**
Page County	7	29.4	3	12.6	7	29.4	11	46.1	0	0.0	**28**	**117.4**
Patrick County	9	49.3	2	11.0	7	38.3	5	27.4	1	5.5	**24**	**131.4**
Petersburg City	12	36.7	14	42.8	23	70.3	6	18.3	0	0.0	**55**	**168.2**
Pittsylvania County	30	48.1	3	4.8	20	32.1	5	8.0	2	3.2	**60**	**96.2**
Poquoson City	1	8.3	0	0.0	2	16.6	1	8.3	0	0.0	**4**	**33.2**
Portsmouth City	30	31.2	11	11.5	39	40.6	13	13.5	3	3.1	**96**	**100.0**
Powhatan County	9	31.6	0	0.0	28	98.4	6	21.1	0	0.0	**43**	**151.1**

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Prince Edward County	5	21.7	0	0.0	10	43.3	4	17.3	0	0.0	**19**	**82.3**
Prince George County	13	34.8	1	2.7	14	37.5	8	21.4	0	0.0	**36**	**96.4**
Prince William County	88	19.7	6	1.3	50	11.2	39	8.7	6	1.3	**189**	**42.4**
Pulaski County	25	72.8	3	8.7	15	43.7	1	2.9	2	5.8	**46**	**134.0**
Radford City	6	34.0	0	0.0	2	11.3	2	11.3	0	0.0	**10**	**56.7**
Rappahannock County	2	27.2	0	0.0	3	40.8	2	27.2	1	13.6	**8**	**108.7**
Richmond City	89	40.9	45	20.7	83	38.1	23	10.6	1	0.5	**241**	**110.6**
Richmond County	5	56.2	0	0.0	3	33.7	0	0.0	0	0.0	**8**	**89.9**
Roanoke City	49	49.3	3	3.0	27	27.2	21	21.1	6	6.0	**106**	**106.6**
Roanoke County	36	38.4	1	1.1	28	29.9	17	18.1	3	3.2	**85**	**90.6**
Rockbridge County	13	58.2	0	0.0	6	26.9	7	31.4	0	0.0	**26**	**116.5**
Rockingham County	37	47.3	3	3.8	12	15.4	10	12.8	1	1.3	**63**	**80.6**
Russell County	9	32.1	3	10.7	9	32.1	4	14.3	2	7.1	**27**	**96.3**
Salem City	12	47.1	0	0.0	11	43.2	9	35.3	1	3.9	**33**	**129.5**
Scott County	7	31.3	0	0.0	8	35.7	2	8.9	0	0.0	**17**	**75.9**
Shenandoah County	23	53.5	3	7.0	12	27.9	8	18.6	2	4.6	**48**	**111.6**
Smyth County	10	31.7	1	3.2	12	38.0	6	19.0	1	3.2	**30**	**95.1**
Southampton County	9	49.8	0	0.0	17	94.1	1	5.5	1	5.5	**28**	**155.0**
Spotsylvania County	38	29.4	2	1.5	14	10.8	14	10.8	1	0.8	**69**	**53.4**
Stafford County	26	18.6	1	0.7	17	12.1	11	7.9	0	0.0	**55**	**39.3**
Staunton City	10	40.8	1	4.1	8	32.6	3	12.2	0	0.0	**22**	**89.7**
Suffolk City	27	31.1	2	2.3	11	12.7	14	16.1	5	5.8	**59**	**68.0**
Surry County	2	29.5	0	0.0	7	103.1	0	0.0	0	0.0	**9**	**132.5**
Sussex County	8	68.0	0	0.0	2	17.0	0	0.0	0	0.0	**10**	**85.0**
Tazewell County	20	46.0	1	2.3	20	46.0	5	11.5	2	4.6	**48**	**110.5**

Locality of Injury	Accident Total	Accident Rate	Homicide Total	Homicide Rate	Natural Total	Natural Rate	Suicide Total	Suicide Rate	Undet. Total	Undet. Rate	Total	Total Rate
Virginia Beach City	116	25.7	17	3.8	83	18.4	71	15.7	23	5.1	**310**	**68.7**
Warren County	20	51.3	1	2.6	9	23.1	8	20.5	2	5.1	**40**	**102.6**
Washington County	21	38.4	6	11.0	17	31.1	8	14.6	2	3.7	**54**	**98.7**
Waynesboro City	5	23.4	2	9.4	6	28.1	0	0.0	2	9.4	**15**	**70.2**
Westmoreland County	5	28.6	0	0.0	7	40.1	4	22.9	0	0.0	**16**	**91.5**
Williamsburg City	6	40.8	0	0.0	8	54.5	6	40.8	0	0.0	**20**	**136.1**
Winchester City	19	69.0	0	0.0	9	32.7	9	32.7	0	0.0	**37**	**134.3**
Wise County	14	35.1	2	5.0	11	27.5	8	20.0	1	2.5	**36**	**90.1**
Wythe County	21	72.1	0	0.0	8	27.5	5	17.2	0	0.0	**34**	**116.8**
York County	18	27.1	3	4.5	12	18.1	8	12.1	4	6.0	**45**	**67.8**
Subtotal (in-state)	**2544**	**30.6**	**342**	**4.1**	**1812**	**21.8**	**1134**	**13.6**	**201**	**2.4**	**6033**	**72.5**
Out of State	61	ND	7	ND	9	ND	9	ND	0	ND	**86**	**ND**
Unknown	27	ND	9	ND	8	ND	3	ND	3	ND	**50**	**ND**
Subtotal (out-of-state)	**88**	**ND**	**16**	**ND**	**17**	**ND**	**12**	**ND**	**3**	**ND**	**136**	**ND**
TOTAL	**2632**	**31.6**	**358**	**4.3**	**1829**	**22.0**	**1146**	**13.8**	**204**	**2.5**	**6169**	**74.1**

Note: No denominator is represented by ND

Map 1.3 Number of OCME Cases by Locality of Injury, 2014



Map 1.4 Rate of OCME Cases by Locality of Injury, 2014

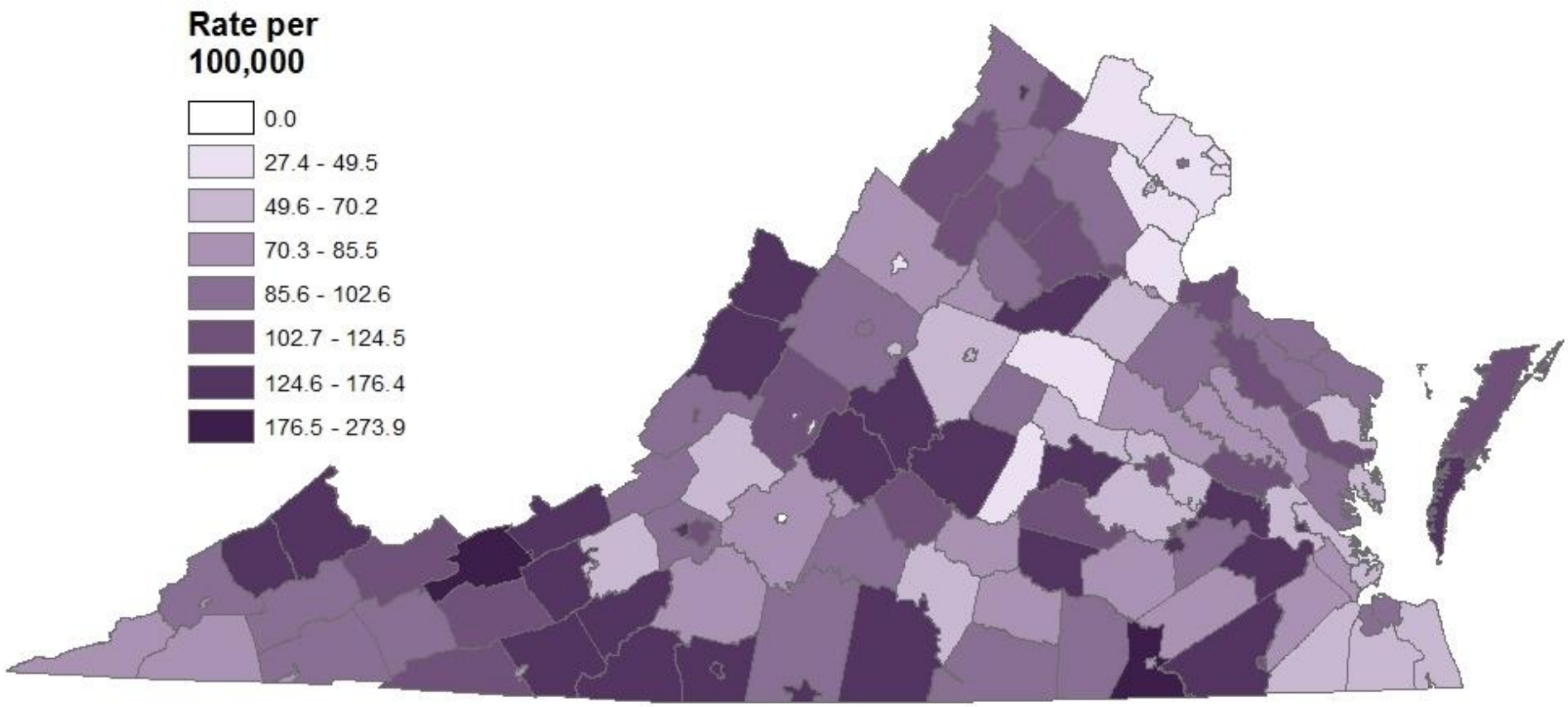


Table 1.10 Number of OCME Cases by Manner of Death and Locality of Death, 2014

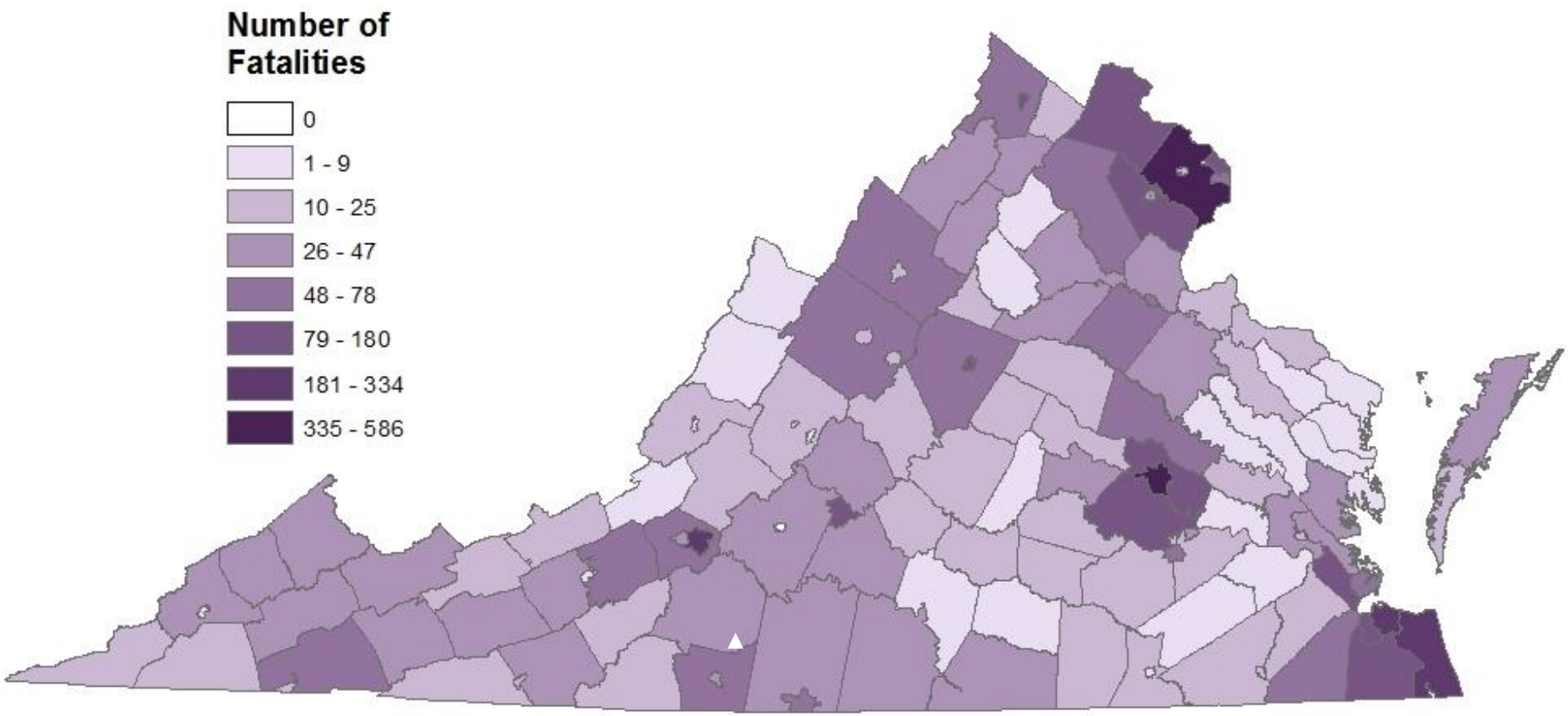
Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Accomack County	8	4	8	4	2	**26**
Albemarle County	38	2	13	15	0	**68**
Alexandria City	20	4	23	17	5	**69**
Alleghany County	9	0	3	2	1	**15**
Amelia County	4	0	3	5	0	**12**
Amherst County	7	1	11	10	2	**31**
Appomattox County	4	1	5	1	0	**11**
Arlington County	32	1	37	18	6	**94**
Augusta County	24	4	20	17	3	**68**
Bath County	0	0	4	2	0	**6**
Bedford County	9	4	21	10	2	**46**
Bland County	1	0	8	3	0	**12**
Botetourt County	9	0	3	1	0	**13**
Bristol City	6	0	3	5	0	**14**
Brunswick County	9	0	2	2	0	**13**
Buchanan County	13	1	11	3	0	**28**
Buckingham County	12	2	6	1	0	**21**
Buena Vista City	0	0	1	0	0	**1**
Campbell County	14	0	17	7	0	**38**
Caroline County	6	0	10	12	0	**28**
Carroll County	13	1	8	6	2	**30**
Charles City County	3	0	2	2	0	**7**
Charlotte County	3	0	3	1	0	**7**
Charlottesville City	66	8	11	14	0	**99**
Chesapeake City	43	8	42	28	4	**125**
Chesterfield County	63	9	34	45	0	**151**
Clarke County	7	0	2	3	0	**12**
Colonial Heights City	3	1	7	4	0	**15**
Covington City	1	0	3	1	0	**5**
Craig County	2	0	2	0	0	**4**
Culpeper County	19	6	8	8	1	**42**
Cumberland County	2	0	1	1	0	**4**
Danville City	28	3	28	9	6	**74**
Dickenson County	10	1	8	7	0	**26**

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Dinwiddie County	3	0	8	3	0	**14**
Emporia City	3	1	3	0	0	**7**
Essex County	3	1	3	5	0	**12**
Fairfax City	6	0	4	2	0	**12**
Fairfax County	305	16	128	117	20	**586**
Falls Church City	1	0	1	0	0	**2**
Fauquier County	28	1	22	8	2	**61**
Floyd County	6	0	2	6	0	**14**
Fluvanna County	3	0	11	2	0	**16**
Franklin City	3	1	5	2	1	**12**
Franklin County	15	2	8	5	1	**31**
Frederick County	18	2	12	17	1	**50**
Fredericksburg City	39	1	17	7	2	**66**
Galax City	7	0	7	1	0	**15**
Giles County	14	1	8	2	0	**25**
Gloucester County	13	0	17	5	0	**35**
Goochland County	4	1	3	5	0	**13**
Grayson County	3	0	5	4	0	**12**
Greene County	4	0	4	2	2	**12**
Greensville County	4	0	8	1	1	**14**
Halifax County	22	0	18	6	0	**46**
Hampton City	21	7	27	16	7	**78**
Hanover County	29	1	15	13	3	**61**
Harrisonburg City	3	0	8	6	1	**18**
Henrico County	68	6	49	30	1	**154**
Henry County	15	3	26	8	0	**52**
Highland County	1	0	0	1	0	**2**
Hopewell City	10	5	17	4	2	**38**
Isle of Wight County	8	1	5	6	1	**21**
James City County	7	0	12	11	0	**30**
King and Queen County	4	0	0	0	0	**4**
King George County	13	1	6	3	0	**23**
King William County	1	0	3	3	0	**7**
Lancaster County	3	0	3	2	1	**9**
Lee County	4	0	3	4	1	**12**

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Lexington City	0	0	0	1	0	**1**
Loudoun County	42	4	21	30	1	**98**
Louisa County	5	1	7	2	0	**15**
Lunenburg County	4	0	1	1	0	**6**
Lynchburg City	50	8	28	8	6	**100**
Madison County	3	0	3	3	0	**9**
Manassas	13	2	15	9	3	**42**
Manassas Park	0	0	0	0	0	**0**
Martinsville City	13	2	12	4	0	**31**
Mathews County	3	0	0	2	0	**5**
Mecklenburg County	12	1	12	3	0	**28**
Middlesex County	1	2	2	0	0	**5**
Montgomery County	24	2	21	10	2	**59**
Nelson County	6	0	6	3	0	**15**
New Kent County	6	0	3	3	0	**12**
Newport News City	74	26	41	27	12	**180**
Norfolk City	137	48	80	47	22	**334**
Northampton County	11	0	3	2	1	**17**
Northumberland County	6	0	3	0	0	**9**
Norton City	3	0	2	0	2	**7**
Nottoway County	5	1	6	4	0	**16**
Orange County	19	2	6	9	3	**39**
Page County	6	3	6	11	0	**26**
Patrick County	6	1	7	5	1	**20**
Petersburg City	9	12	28	8	0	**57**
Pittsylvania County	17	2	17	5	1	**42**
Poquoson City	0	0	2	1	0	**3**
Portsmouth City	33	7	42	11	3	**96**
Powhatan County	3	0	19	5	0	**27**
Prince Edward County	5	0	13	5	0	**23**
Prince George County	5	1	12	6	0	**24**
Prince William County	58	4	44	37	6	**149**
Pulaski County	23	4	13	1	2	**43**
Radford City	2	0	1	2	0	**5**
Rappahannock County	1	0	1	2	1	**5**

Locality of Death	Accident Total	Homicide Total	Natural Total	Suicide Total	Undetermined Total	Total
Richmond City	215	55	118	47	3	**438**
Richmond County	4	0	2	0	0	**6**
Roanoke City	134	7	44	32	7	**224**
Roanoke County	18	1	18	14	2	**53**
Rockbridge County	12	0	5	6	0	**23**
Rockingham County	37	4	13	10	1	**65**
Russell County	9	3	9	4	2	**27**
Salem City	17	0	14	9	1	**41**
Scott County	7	0	6	2	0	**15**
Shenandoah County	15	3	12	8	1	**39**
Smyth County	11	0	10	6	1	**28**
Southampton County	6	0	12	0	1	**19**
Spotsylvania County	24	1	12	14	0	**51**
Stafford County	18	1	15	9	0	**43**
Staunton City	4	1	4	2	0	**11**
Suffolk City	28	2	12	14	5	**61**
Surry County	2	0	6	0	0	**8**
Sussex County	5	0	2	0	0	**7**
Tazewell County	21	1	19	4	2	**47**
Virginia Beach City	100	17	80	68	18	**283**
Warren County	16	1	8	6	1	**32**
Washington County	19	4	20	8	1	**52**
Waynesboro City	6	0	5	0	1	**12**
Westmoreland County	3	0	6	4	0	**13**
Williamsburg City	5	0	7	6	0	**18**
Winchester City	63	1	17	14	4	**99**
Wise County	14	2	13	8	1	**38**
Wythe County	18	0	7	4	0	**29**
York County	14	4	16	8	2	**44**
Subtotal (in-state)	**2629**	**353**	**1825**	**1145**	**201**	**6153**
Out of State	2	4	2	0	3	**11**
Unknown	1	1	2	1	0	**5**
Subtotal (out-of-state)	**3**	**5**	**4**	**1**	**3**	**16**
TOTAL	**2632**	**358**	**1829**	**1146**	**204**	**6169**

Map 1.5 Number of OCME Cases by Locality of Death, 2014



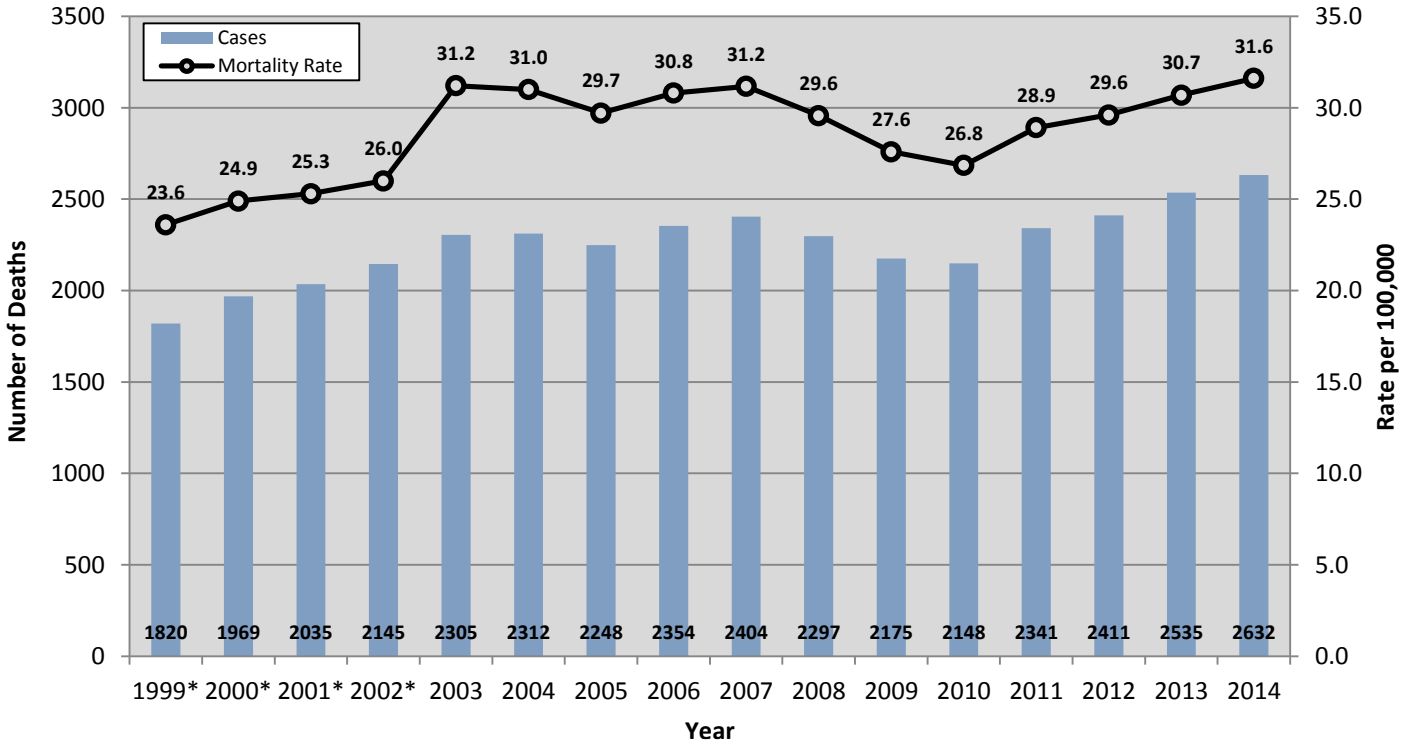
SECTION 2: MANNER OF DEATH

ACCIDENTAL DEATHS (N=2,632)

Accidents accounted for 42.7% of the deaths investigated by the OCME in 2014, which is the greatest proportion of deaths by any manner.

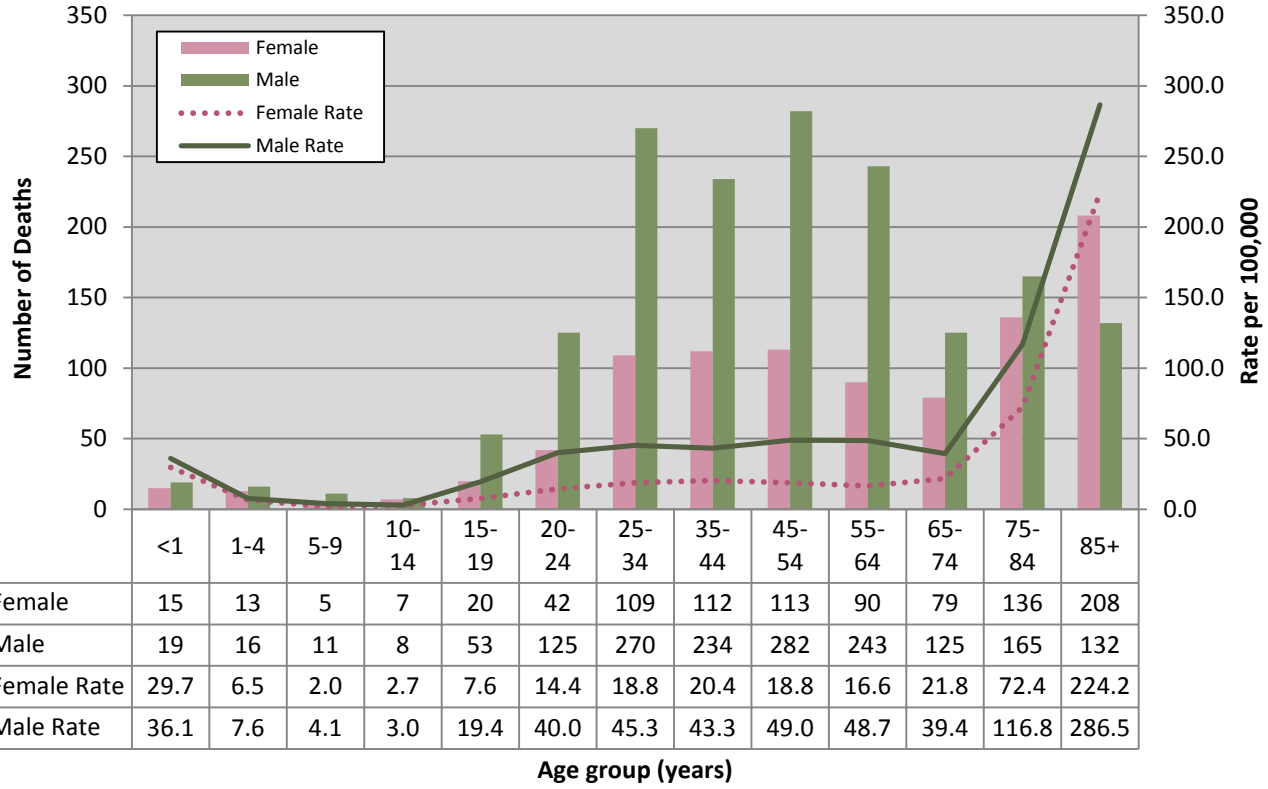
- The total number of accidental deaths increased 3.8% from 2013
- For the first time on record, fatal drug overdoses became the most common cause of accidental death (30.1%), followed by accidental motor vehicle deaths (29.9%)
- Seniors 85 years and older had the highest mortality rate due to falls (209.6 per 100,000 persons)
- Of the nearly 80% of decedents of accidental death who were tested for ethanol, 25.6% had ethanol detected through toxicology testing. Of those tested, 17.6% had a blood alcohol level of 0.08% BAC or greater; the level of legal intoxication

Figure 2.1 Number and Rate of Accidental Deaths by Year of Death, 1999-2014



*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 Number and Rate of Accidental Deaths by Age Group and Gender, 2014



	<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	15	13	5	7	20	42	109	112	113	90	79	136	208
Male	19	16	11	8	53	125	270	234	282	243	125	165	132
Female Rate	29.7	6.5	2.0	2.7	7.6	14.4	18.8	20.4	18.8	16.6	21.8	72.4	224.2
Male Rate	36.1	7.6	4.1	3.0	19.4	40.0	45.3	43.3	49.0	48.7	39.4	116.8	286.5

Figure 2.3 Percentage of Accidental Deaths by Race/Ethnicity, 2014

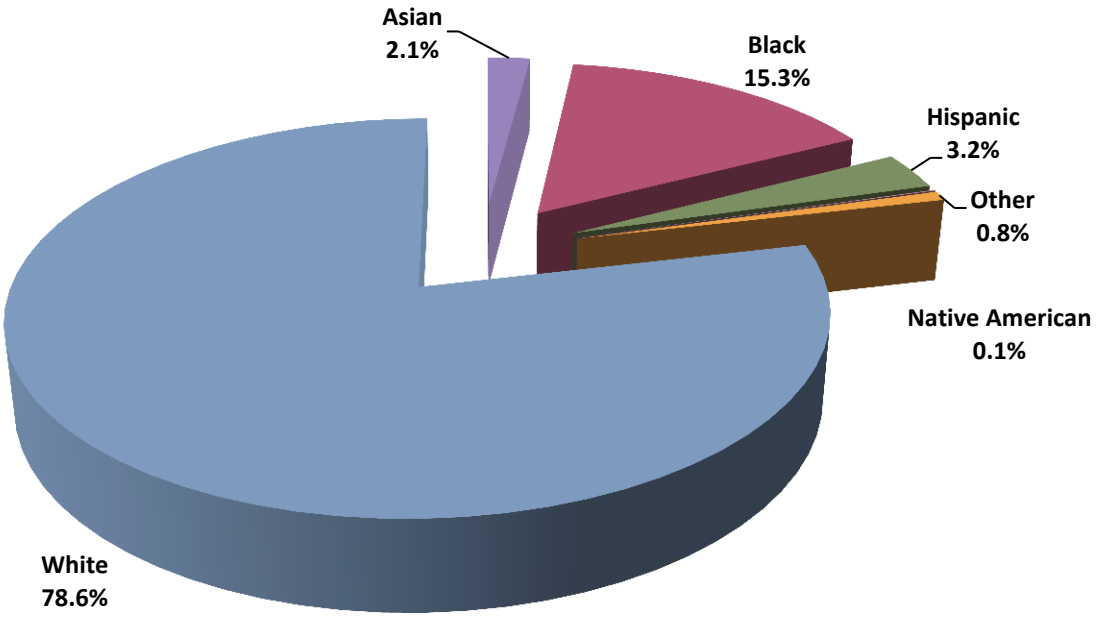
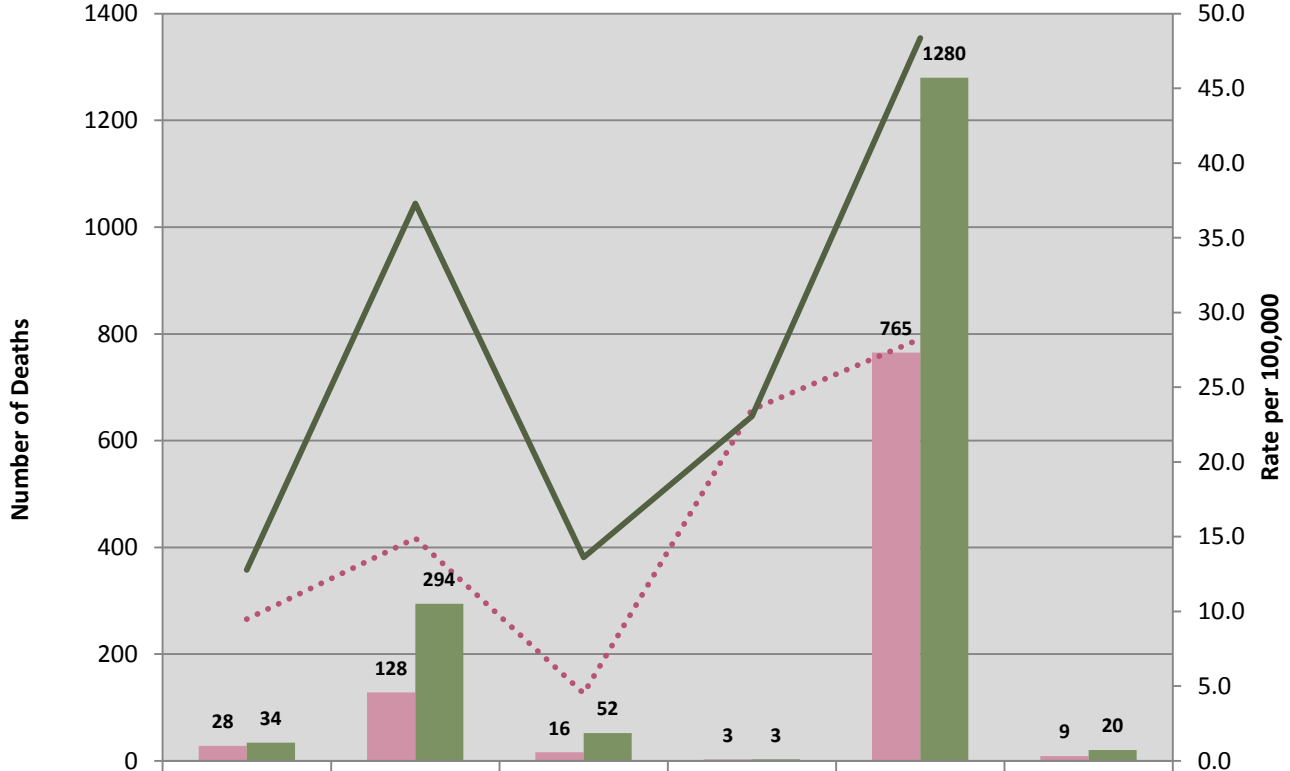


Figure 2.4 Number and Rate of Accidental Deaths by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	28	128	16	3	765	9
Male	34	294	52	3	1280	20
Female Rate	9.5	14.9	4.5	23.5	28.2	*
Male Rate	12.8	37.3	13.6	23.1	48.4	*

Race/Ethnicity

*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Table 2.1 Number of Accidental Death Cases by Cause and Method of Death, 2014

Method of Death	Autopsied	Total Cases
Animal/Insect		
Bit, stung, or kicked by an animal/insect	0	**0**
Asphyxia		
Choked on food/foreign object	7	**42**
Drowned	46	**78**
Hanged	3	**6**
Inhaled toxic agent (carbon monoxide)	1	**5**
Mechanical/Positional asphyxia	16	**23**
Other asphyxia	1	**1**
Strangled/Neck compression	3	**4**
Suffocated/Smothered	20	**20**
Drug Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	611	**791**
Electrical		
Contacted electrical current	2	**4**
Exposure		
Exposed to cold	23	**35**
Exposed to heat	5	**5**
Fall/Jump		
Fell/Jumped from any height	44	**687**
Fire		
Thermal burns and/or inhalation of combustion products	41	**74**
Motor Vehicle Collision		
Aircraft	7	**8**
All terrain vehicle	1	**13**
Bicycle	3	**14**
Boat	2	**4**
Bus	2	**5**
Car	44	**375**
Construction equipment	3	**3**
Dump truck	2	**4**
Farm equipment	0	**6**
Jet Ski	0	**1**
Lawnmower	0	**1**

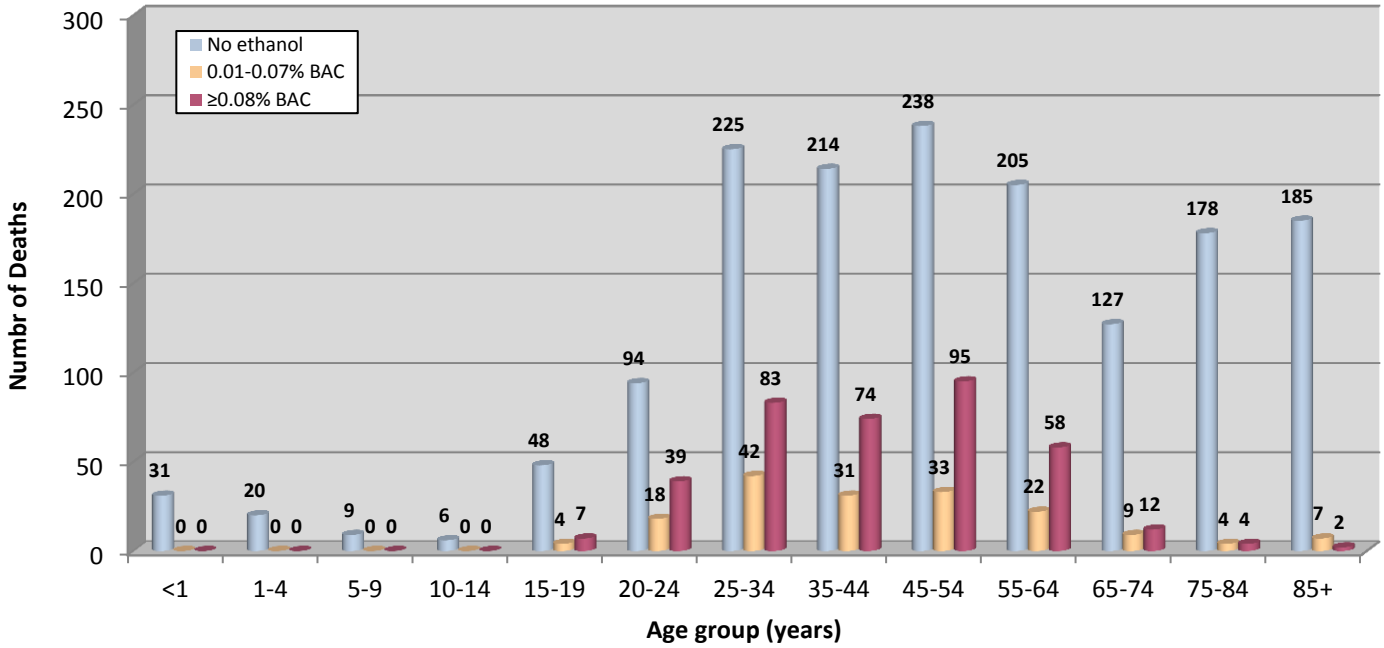
Method of Death	Autopsied	Total Cases
Mo-ped	2	**12**
Motorcycle	6	**78**
Multiple	0	**2**
Pickup truck	15	**87**
Skateboard	0	**1**
Snow plow	0	**1**
Sport utility vehicle	8	**86**
Tractor trailer	11	**24**
Train	3	**9**
Truck (other)	6	**10**
Van	13	**29**
Unspecified	1	**15**
Traumatic Injury		
Accidental discharge of firearm		
Handgun	5	**5**
Shotgun	1	**1**
Other	1	**1**
Hit/Crushed by falling object	7	**24**
Sharp force injury	6	**10**
Other/Undetermined		
Other	12	**24**
Undetermined	2	**4**
TOTAL ACCIDENTAL DEATHS	**986**	**2632**

Table 2.2 Number and Rate of the Top 5 Accidental Methods of Death by Age Group, 2014

Age Group	Drowning		Drug Use		Fall		Fire/Smoke Inhalation		Motor Vehicle Collision		TOTAL
	Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate	
<1	0	0.0	0	0.0	0	0.0	2	1.9	4	3.9	**6**
1-4	8	1.9	0	0.0	0	0.0	5	1.2	5	1.2	**18**
5-9	5	1.0	0	0.0	0	0.0	2	0.4	6	1.2	**13**
10-14	1	0.2	0	0.0	0	0.0	1	0.2	11	2.1	**13**
15-19	3	0.6	12	2.2	1	0.2	2	0.4	51	9.5	**69**
20-24	8	1.3	63	10.4	3	0.5	2	0.3	83	13.7	**159**
25-34	14	1.2	210	17.9	5	0.4	5	0.4	131	11.1	**365**
35-44	8	0.7	208	19.1	13	1.2	4	0.4	91	8.4	**324**
45-54	15	1.3	186	15.8	32	2.7	8	0.7	130	11.1	**371**
55-64	8	0.8	99	9.5	56	5.4	10	1.0	125	12.0	**298**
65-74	6	0.9	12	1.8	79	11.6	14	2.1	67	9.9	**178**
75-84	0	0.0	1	0.3	207	62.9	15	4.6	59	17.9	**282**
85+	2	1.4	0	0.0	291	209.6	4	2.9	25	18.0	**322**
TOTAL	**78**	**0.9**	**791**	**9.5**	**687**	**8.3**	**74**	**0.9**	**788**	**9.5**	**2418**

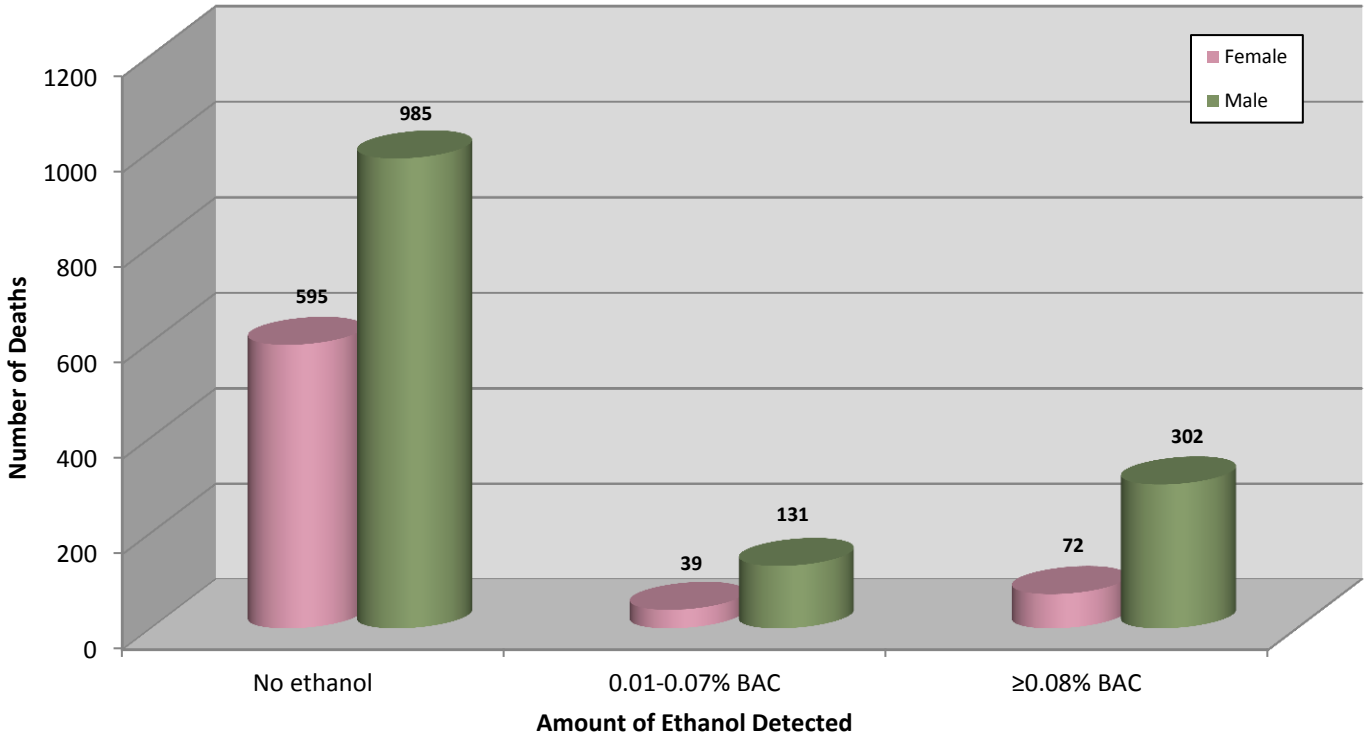
Note: Highlighted pink cells indicate the highest rate among the method of death within the corresponding age group; rates are per 100,000

Figure 2.5 Number of Accidental Deaths by Age Group and Ethanol Level (N=2124), 2014



Note: Of the 2632 accidental deaths, 19.3% (n=508) did not receive alcohol testing.

Figure 2.6 Number of Accidental Deaths by Ethanol Level and Gender (N=2124), 2014



Note: Of the 2632 accidental deaths, 19.3% (n=508) did not receive alcohol testing.

Figure 2.7 Number of the Top 5 Accidental Methods of Death by Ethanol Level, 2014

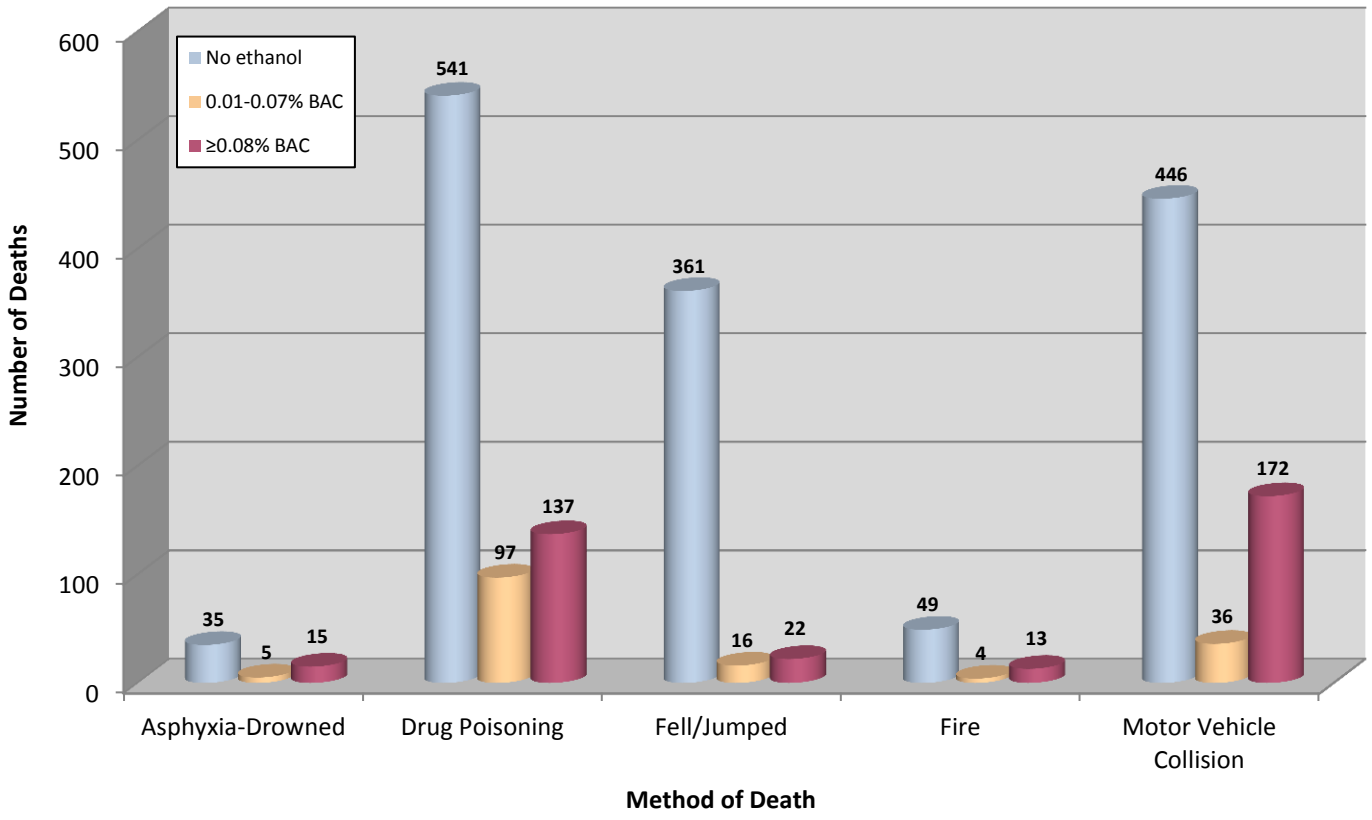


Figure 2.8 Number of Accidental Deaths by Month of Death, 2014

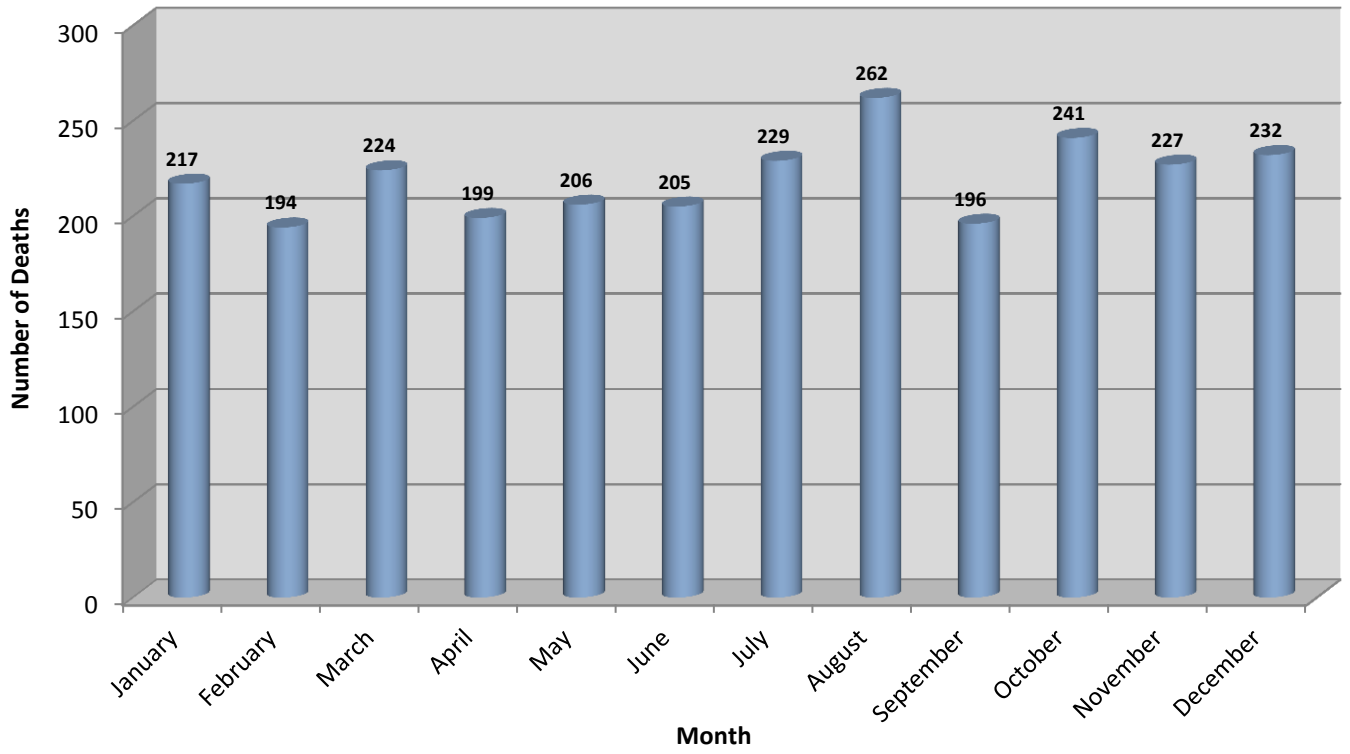


Figure 2.9 Number of Accidental Deaths by Day of Death, 2014

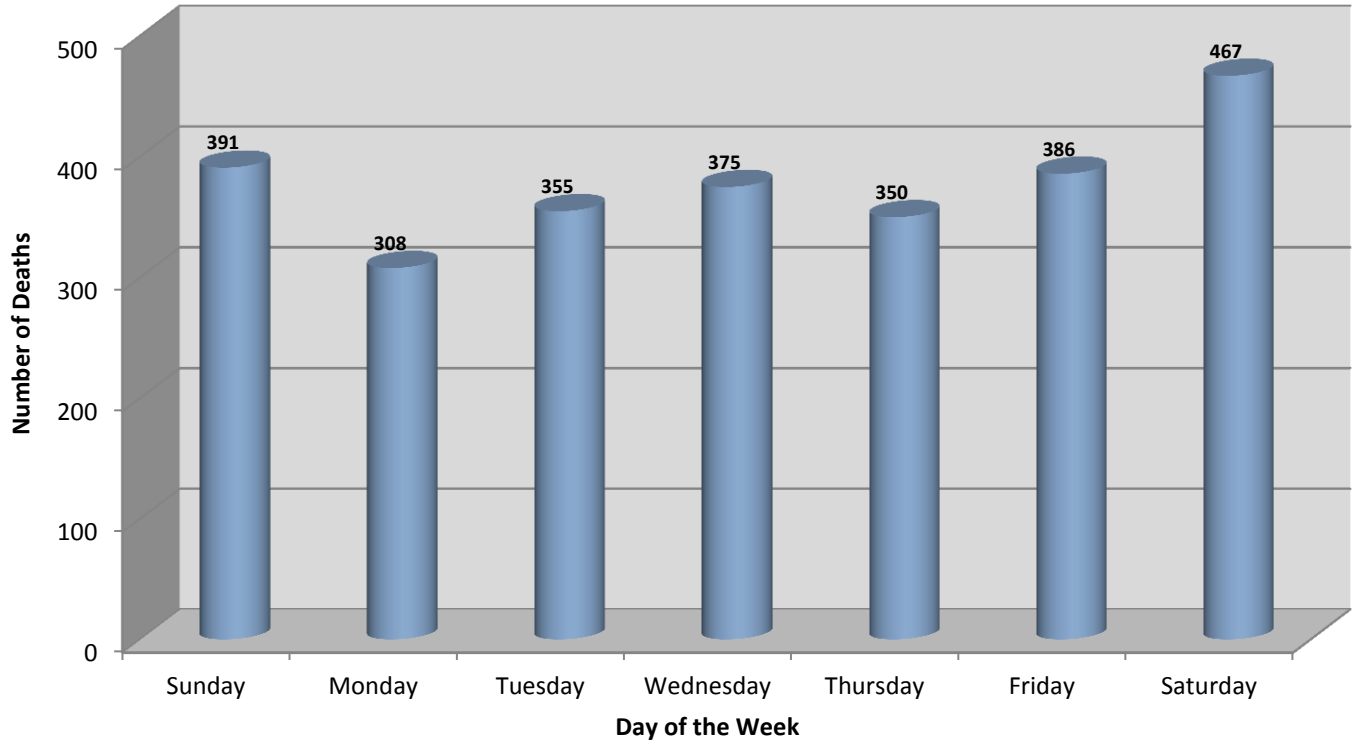


Table 2.3 Number of Accidental Deaths by Locality of Injury and Year of Death, 2006-2014

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Accomack County	22	20	11	19	18	16	15	12	15	**148**
Albemarle County	17	20	33	25	28	34	28	32	44	**261**
Alexandria City	21	21	21	22	14	22	16	21	21	**179**
Alleghany County	10	14	8	5	6	4	7	8	9	**71**
Amelia County	4	7	11	9	4	8	9	5	7	**64**
Amherst County	11	8	16	9	5	17	19	12	12	**109**
Appomattox County	2	6	7	4	3	5	4	4	8	**43**
Arlington County	18	20	30	34	27	24	34	32	31	**250**
Augusta County	26	35	38	33	31	27	33	32	29	**284**
Bath County	2	3	1	4	3	3	6	2	1	**25**
Bedford City	3	5	5	4	4	2	0	2	--	**25**
Bedford County	22	27	16	30	31	24	40	32	24	**246**
Bland County	0	6	2	7	4	7	2	2	3	**33**
Botetourt County	12	12	13	11	11	19	15	12	14	**119**
Bristol City	6	10	3	3	7	5	7	1	6	**48**
Brunswick County	16	7	6	8	13	8	14	15	11	**98**
Buchanan County	21	18	19	11	23	18	20	13	15	**158**
Buckingham County	3	9	6	3	5	5	7	5	15	**58**
Buena Vista City	0	0	1	2	0	1	2	0	1	**7**
Campbell County	32	16	31	12	17	14	25	21	20	**188**
Caroline County	9	14	8	9	13	14	10	17	7	**101**
Carroll County	17	15	19	11	7	13	14	15	19	**130**
Charles City County	4	8	7	7	7	6	5	3	5	**52**
Charlotte County	4	6	6	5	6	9	6	6	4	**52**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Charlottesville City	21	28	11	16	12	9	8	11	13	**129**
Chesapeake City	55	60	47	53	43	58	57	67	59	**499**
Chesterfield County	56	71	92	68	70	74	82	78	89	**680**
Clarke County	5	6	5	8	10	4	8	5	8	**59**
Colonial Heights City	6	3	4	2	2	3	3	5	6	**34**
Covington City	4	0	2	2	0	1	0	1	3	**13**
Craig County	7	2	2	4	2	2	1	4	3	**27**
Culpeper County	16	24	12	12	14	15	20	22	27	**162**
Cumberland County	1	2	4	3	2	3	4	9	2	**30**
Danville City	16	13	22	20	20	19	16	20	20	**166**
Dickenson County	11	16	13	5	11	13	10	8	10	**97**
Dinwiddie County	12	14	20	12	10	8	9	15	6	**106**
Emporia City	2	8	2	1	3	3	3	4	1	**27**
Essex County	4	7	4	7	5	8	3	2	5	**45**
Fairfax City	3	4	5	11	5	7	11	11	11	**68**
Fairfax County	221	157	144	149	152	195	184	197	210	**1609**
Falls Church City	2	1	0	1	1	6	0	2	4	**17**
Fauquier County	21	32	26	33	32	33	27	30	28	**262**
Floyd County	13	10	5	8	5	10	5	10	8	**74**
Fluvanna County	9	7	14	7	6	5	7	5	6	**66**
Franklin City	2	2	1	1	2	0	1	2	3	**14**
Franklin County	27	22	23	26	21	33	38	17	23	**230**
Frederick County	24	25	26	31	27	29	25	36	36	**259**
Fredericksburg City	22	14	15	6	11	12	20	14	8	**122**
Galax City	0	3	0	0	0	3	4	2	2	**14**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Giles County	9	5	9	9	10	3	10	12	14	**81**
Gloucester County	21	10	16	10	20	14	12	16	13	**132**
Goochland County	6	15	10	14	8	8	13	5	6	**85**
Grayson County	13	5	2	6	5	5	6	7	5	**54**
Greene County	4	14	5	4	7	2	9	5	7	**57**
Greensville County	10	3	2	5	6	2	5	3	9	**45**
Halifax County	15	22	27	14	20	16	9	9	23	**155**
Hampton City	31	28	28	25	35	38	24	38	29	**276**
Hanover County	21	27	26	13	18	30	26	36	42	**239**
Harrisonburg City	11	1	3	5	4	8	6	10	10	**58**
Henrico County	89	66	76	73	70	58	72	95	87	**686**
Henry County	34	15	34	22	26	31	31	23	28	**244**
Highland County	1	2	2	2	2	1	0	1	2	**13**
Hopewell City	5	8	6	7	7	6	6	3	7	**55**
Isle of Wight County	16	16	15	12	13	7	11	11	15	**116**
James City County	17	8	24	16	13	19	11	27	16	**151**
King and Queen County	5	7	5	8	2	1	3	4	4	**39**
King George County	5	7	8	10	2	8	10	13	16	**79**
King William County	3	7	5	9	2	6	6	8	5	**51**
Lancaster County	9	9	6	2	2	8	2	6	2	**46**
Lee County	11	16	10	13	8	15	11	11	7	**102**
Lexington City	3	2	1	2	4	1	2	2	1	**18**
Loudoun County	23	37	27	29	32	36	52	55	64	**355**
Louisa County	16	24	17	21	14	11	13	17	6	**139**
Lunenburg County	6	11	9	5	2	1	6	7	5	**52**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Lynchburg City	13	24	24	16	25	21	34	25	26	**208**
Madison County	3	9	6	3	5	4	6	5	5	**46**
Manassas	8	8	6	12	4	6	14	4	9	**71**
Manassas Park	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	2	0	5	**2**
Martinsville City	8	3	8	6	7	7	6	10	8	**63**
Mathews County	8	4	1	4	2	2	3	6	3	**33**
Mecklenburg County	18	17	11	16	10	13	13	15	16	**129**
Middlesex County	3	7	6	6	6	1	4	4	6	**43**
Montgomery County	15	24	27	24	30	28	23	26	23	**220**
Nelson County	6	12	6	11	6	9	9	9	11	**79**
New Kent County	15	6	7	8	12	11	9	6	11	**85**
Newport News City	52	36	36	53	40	45	33	43	54	**392**
Norfolk City	59	79	59	67	49	73	71	89	68	**614**
Northampton County	6	8	10	9	5	3	2	5	12	**60**
Northumberland County	2	3	8	4	6	9	8	7	7	**54**
Norton City	3	0	1	1	2	0	1	2	0	**10**
Nottoway County	6	8	3	14	6	7	5	7	8	**64**
Orange County	6	14	13	10	14	16	9	19	25	**126**
Page County	4	10	4	7	8	14	12	10	7	**76**
Patrick County	5	7	11	8	8	5	9	12	9	**74**
Petersburg City	16	22	14	14	13	3	11	10	12	**115**
Pittsylvania County	28	30	37	29	25	27	34	22	30	**262**
Poquoson City	5	1	1	3	1	2	0	2	1	**16**
Portsmouth City	29	20	18	29	23	28	19	33	30	**229**
Powhatan County	14	6	7	5	3	7	12	12	9	**75**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Prince Edward County	9	16	5	14	11	4	9	10	5	**83**
Prince George County	9	12	12	10	12	11	12	13	13	**104**
Prince William County	69	57	65	64	75	82	92	79	88	**671**
Pulaski County	16	23	19	15	19	19	14	18	25	**168**
Radford City	2	5	9	3	8	3	8	2	6	**46**
Rappahannock County	0	4	2	3	6	4	5	4	2	**30**
Richmond City	127	132	85	69	66	88	77	79	89	**812**
Richmond County	2	2	6	2	4	4	5	3	5	**33**
Roanoke City	37	30	32	41	36	39	40	57	49	**361**
Roanoke County	27	22	23	19	17	26	27	28	36	**225**
Rockbridge County	12	14	10	13	7	10	14	7	13	**100**
Rockingham County	30	21	19	16	18	16	25	22	37	**204**
Russell County	19	19	15	11	16	20	14	12	9	**135**
Salem City	13	7	8	8	8	4	12	12	12	**84**
Scott County	6	8	10	9	5	8	9	10	7	**72**
Shenandoah County	14	5	24	13	12	15	17	15	23	**138**
Smyth County	13	10	11	7	12	10	9	12	10	**94**
Southampton County	10	15	10	10	11	6	8	17	9	**96**
Spotsylvania County	29	39	30	29	43	36	34	39	38	**317**
Stafford County	18	43	25	24	21	23	33	33	26	**246**
Staunton City	7	6	8	7	5	8	3	4	10	**58**
Suffolk City	16	36	26	17	30	26	25	30	27	**233**
Surry County	2	7	4	1	6	2	1	4	2	**29**
Sussex County	13	15	17	11	12	5	2	3	8	**86**
Tazewell County	36	11	16	19	25	30	23	14	20	**194**

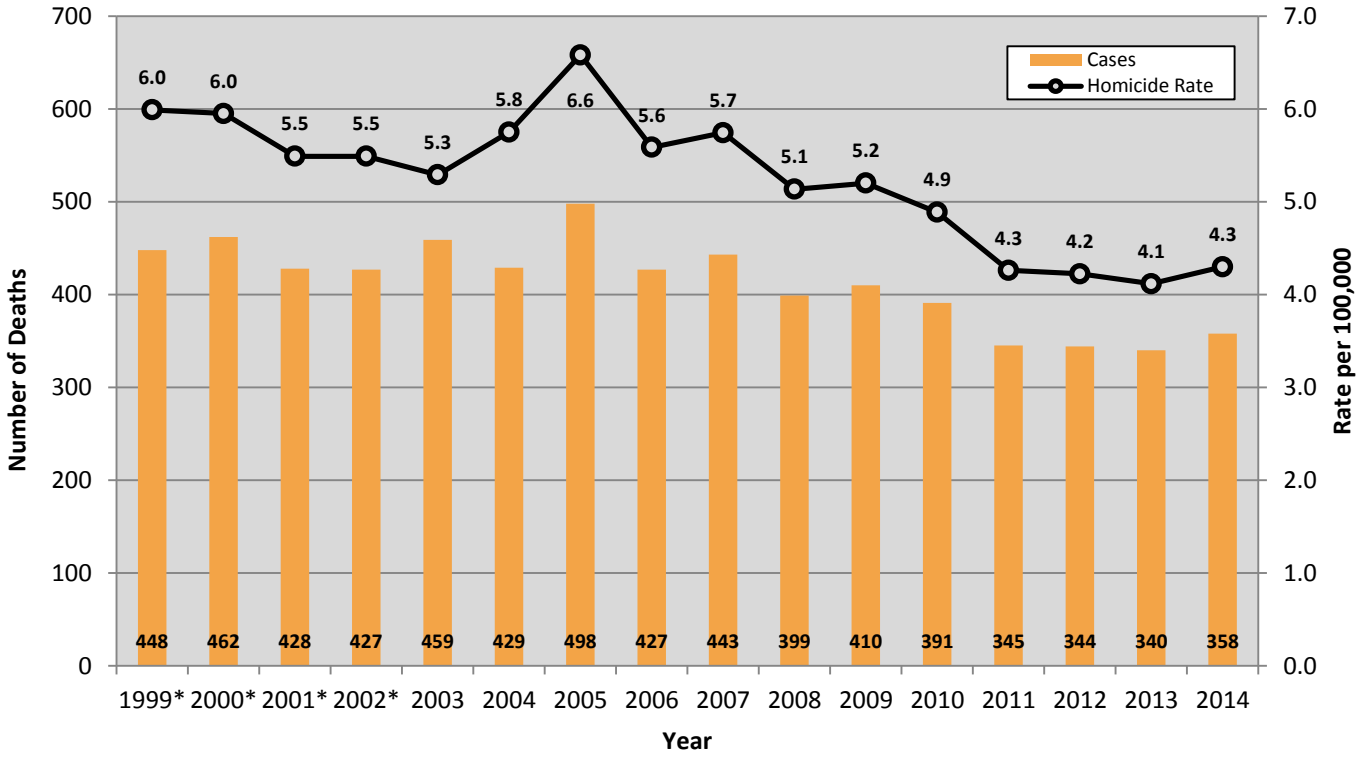
Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Virginia Beach City	101	105	102	110	77	112	111	119	116	**953**
Warren County	6	11	17	9	25	23	15	20	20	**146**
Washington County	18	20	22	14	21	28	16	10	21	**170**
Waynesboro City	7	2	7	6	7	3	13	8	5	**58**
Westmoreland County	13	10	11	6	11	10	7	7	5	**80**
Williamsburg City	6	5	3	6	2	9	5	6	6	**48**
Winchester City	15	2	4	10	7	7	16	17	19	**97**
Wise County	31	28	15	22	22	23	19	23	14	**197**
Wythe County	11	14	24	12	13	9	17	14	21	**135**
York County	14	17	14	7	15	17	8	16	18	**126**
Subtotal (in-state)	**2316**	**2334**	**2224**	**2105**	**2080**	**2274**	**2334**	**2455**	**2544**	**20661**
Out of State	29	52	46	52	54	54	59	69	61	**476**
Unknown	8	18	27	18	14	13	18	11	27	**154**
Subtotal (out-of-state)	**37**	**70**	**73**	**70**	**68**	**67**	**77**	**80**	**88**	**630**
TOTAL	**2353**	**2404**	**2297**	**2175**	**2148**	**2341**	**2411**	**2535**	**2632**	**21291**

HOMICIDE DEATHS (N=358)

The number of homicides in 2014 increased compared to 2013 (5.3%). As previous years have shown, homicides most frequently occurred among males (73.5%) and among blacks (55.3%). Males aged 20-24 years demonstrate the highest homicide rate with 16.7 deaths per 100,000 persons.

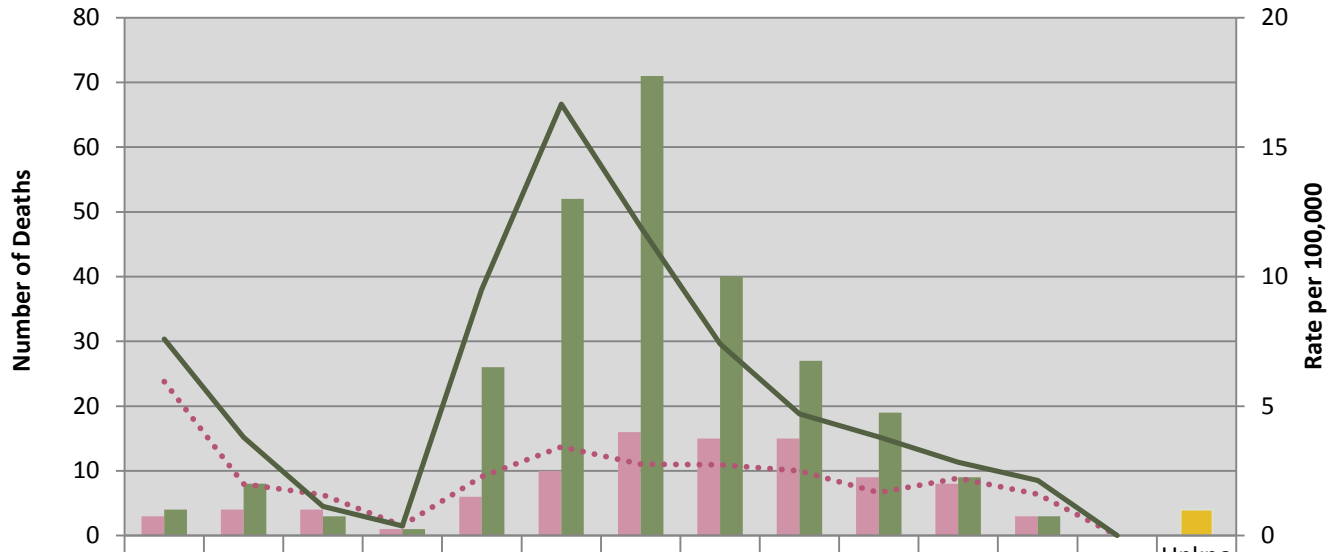
- Nearly seventy-one percent of all homicides were committed using a firearm, with handguns (the most common type) used in 77.6% of all firearm-related homicides
- Fifty-five percent of all homicides in the Commonwealth were committed using a handgun
- Of the 93.6% of homicide victims tested for ethanol, 34.9% had ethanol present. Furthermore, 22.7% of those tested had a blood alcohol of 0.08% BAC or greater
- Norfolk City had the largest number of residential homicides (n=31), while Richmond City had the largest number of homicides by location of injury (n=45). Petersburg City had both the highest residential homicide rate and highest homicide rate by location of injury (rate of 36.7 and 42.8 per 100,000, respectively)

Figure 2.10 Number and Rate of Homicide Deaths by Year of Death, 1999-2014



*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 Number and Rate of Homicide Deaths by Age Group and Gender, 2014



	<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
Female	3	4	4	1	6	10	16	15	15	9	8	3	0	0
Male	4	8	3	1	26	52	71	40	27	19	9	3	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Female Rate	5.9	2.0	1.6	0.4	2.3	3.4	2.8	2.7	2.5	1.7	2.2	1.6	0.0	*
Male Rate	7.6	3.8	1.1	0.4	9.5	16.7	11.9	7.4	4.7	3.8	2.8	2.1	0.0	*

Age Group (years)

Figure 2.12 Percentage of Homicide Deaths by Race/Ethnicity, 2014

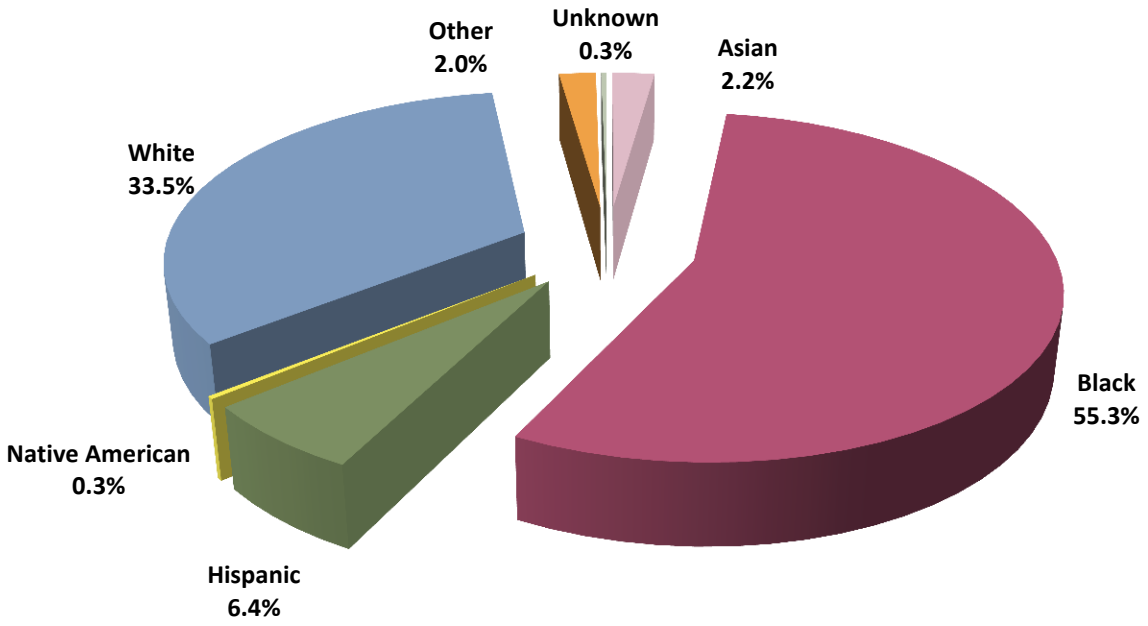
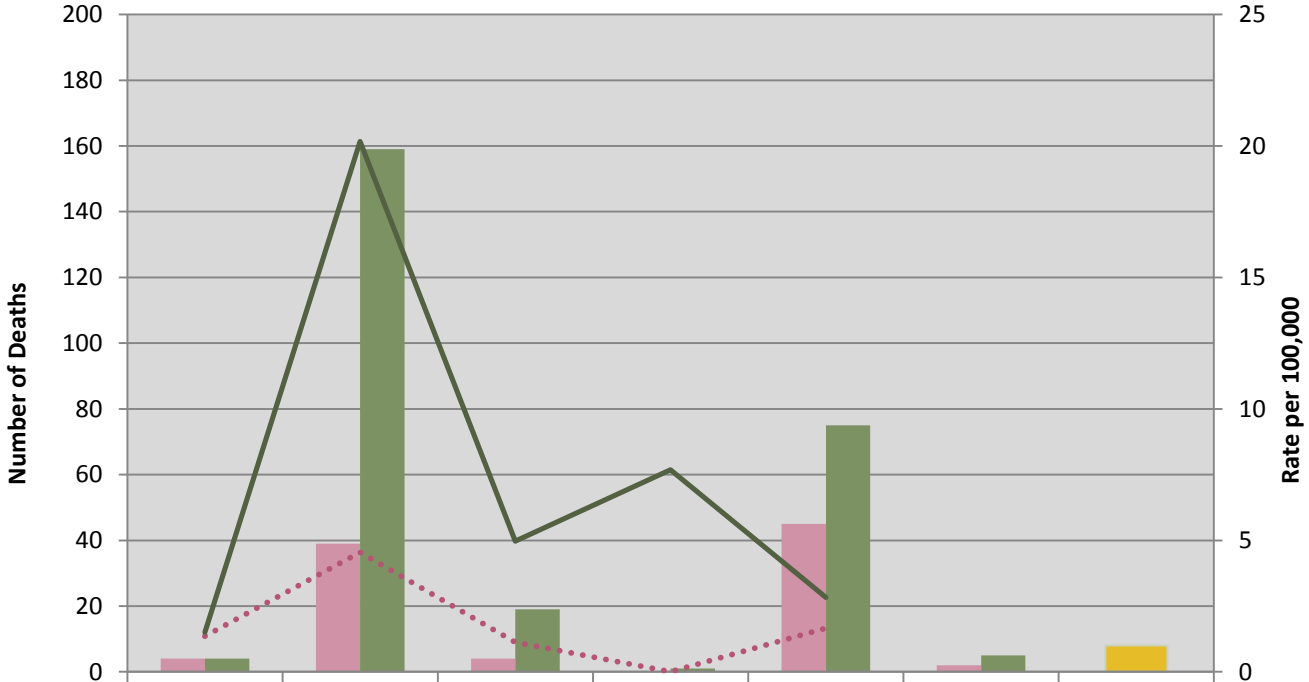


Figure 2.13 Number and Rate of Homicide Deaths by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other	Unknown
Female	4	39	4	0	45	2	0
Male	4	159	19	1	75	5	0
Unknown	0	0	0	0	0	0	1
Female Rate	1.4	4.5	1.1	0.0	1.7	*	*
Male Rate	1.5	20.2	5.0	7.7	2.8	*	*

Race/ethnicity

*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Table 2.4 Number of Homicide Deaths by Cause and Method of Death, 2014

Method of Death	Autopsied	Total Cases
Asphyxia		
Strangled by assailant(s)	8	**8**
Suffocated/Smothered by assailant(s)	2	**2**
Fall/Jump/Push		
Fell/Jumped/Pushed from any height	1	**1**
Fire		
Thermal and/or inhalational Injuries	3	**3**
Motor Vehicle Collision		
Struck by a vehicle	4	**4**
Poisoning		
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	1	**1**
Traumatic Injury		
Beaten by assailant(s)	37	**37**
Shot by assailant(s)		
Handgun	197	**197**
Multiple	3	**3**
Rifle	13	**13**
Shotgun	11	**11**
Unspecified/Unknown	30	**30**
Stabbed by assailant(s)	39	**39**
Other traumatic violence	8	**8**
Unknown		
Undetermined method	1	**1**
TOTAL HOMICIDE DEATHS	**358**	**358**

Figure 2.14 Number of the Top 5 Homicide Deaths by Method, 2014

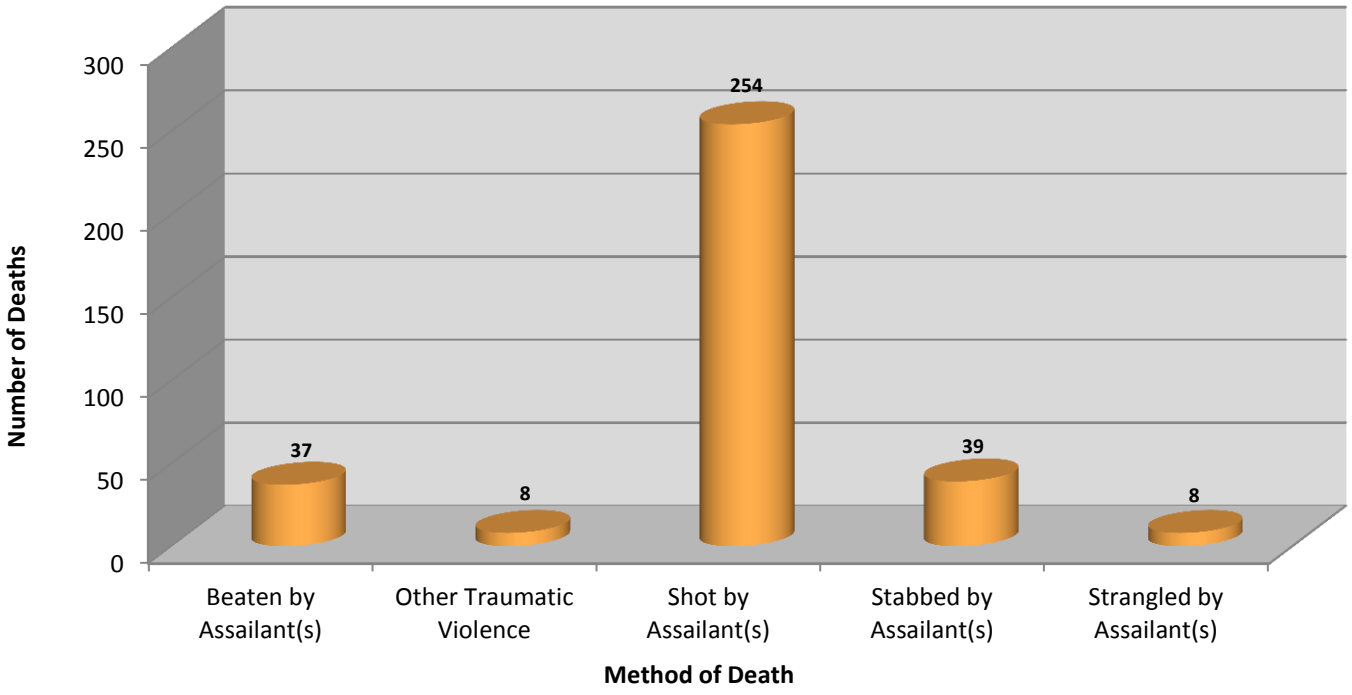
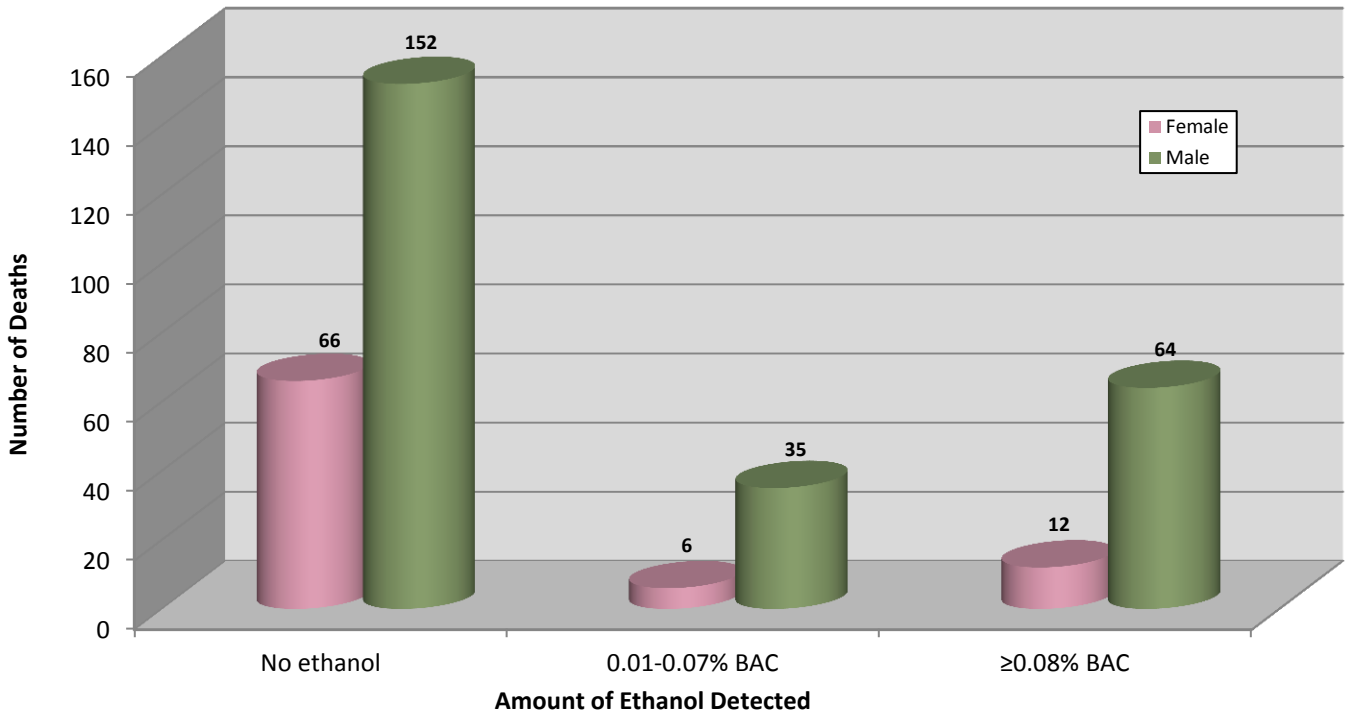
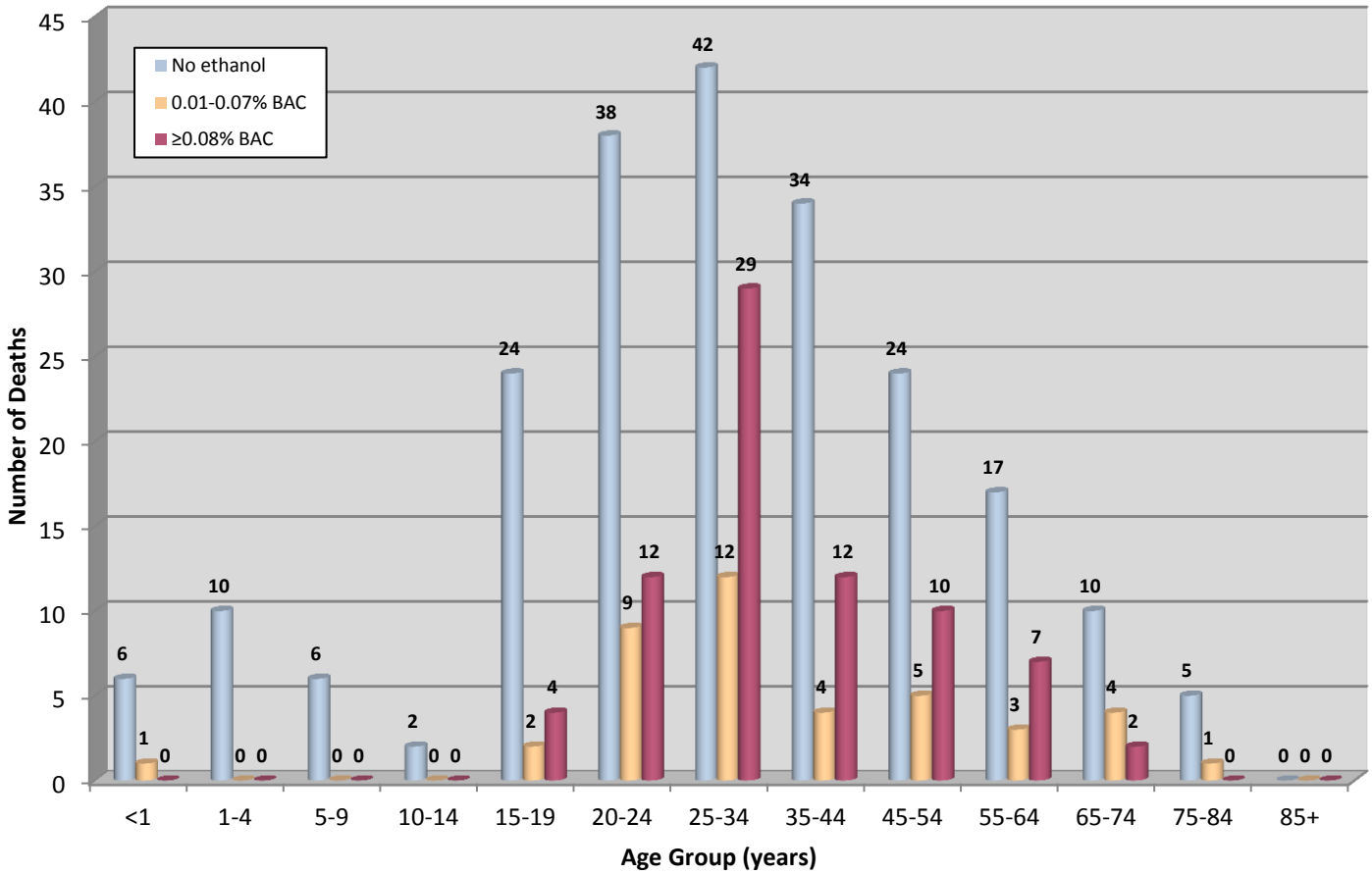


Figure 2.15 Number of Homicide Deaths by Ethanol Level and Gender (N=335), 2014



Note: Of the 358 homicide deaths, 6.4% (n=23) did not receive alcohol testing.

Figure 2.16 Number of Homicide Deaths by Age Group and Ethanol Level (N=335), 2014



Note: Of the 358 homicide deaths, 6.4% (n=23) did not receive alcohol testing.

Table 2.5 Number of Homicide Deaths by Method of Death and Ethanol Level (N=335), 2014

Method of Death	No ethanol	0.01-0.07% BAC	≥0.08% BAC	Total Cases
Asphyxia				
Strangled by assailant(s)	5	1	2	**8**
Suffocated/Smothered by assailant(s)	2	0	0	**2**
Fall/Jump/Push				0
Fell/Jumped/Pushed from any height	0	1	0	**1**
Fire				**0**
Thermal and/or inhalational Injuries	3	0	0	**3**
Motor Vehicle Collision				**0**
Struck by a vehicle	2	1	1	**4**
Poisoning				**0**
Ingested and/or injected ethanol, illicit, prescription, and/or other type of drug	1	0	0	**1**
Traumatic Injury				**0**
Beaten by assailant(s)	27	3	6	**36**
Shot by assailant(s)				**0**
Handgun	110	20	50	**180**
Multiple	2	1	0	**3**
Rifle	10	1	1	**12**
Shotgun	8	0	2	**10**
Unspecified/Unknown	23	4	3	**30**
Stabbed by assailant(s)	22	9	8	**39**
Other traumatic violence	3	0	3	**6**
TOTAL HOMICIDE DEATHS	**218**	**41**	**76**	**335**

Note: Of the 358 homicide deaths, 6.4% (n=23) did not receive alcohol testing.

Figure 2.17 Number of Homicide Deaths by Month of Death, 2014

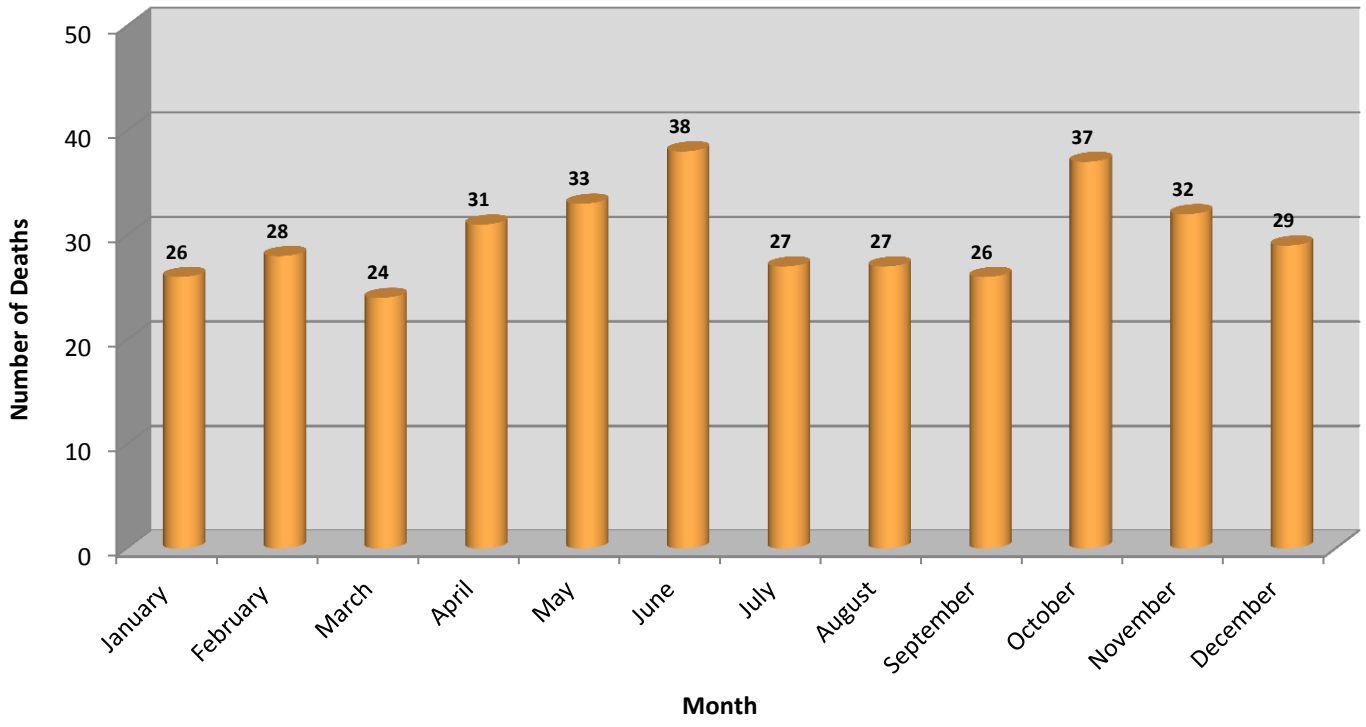


Figure 2.18 Number of Homicide Deaths by Day of Death, 2014

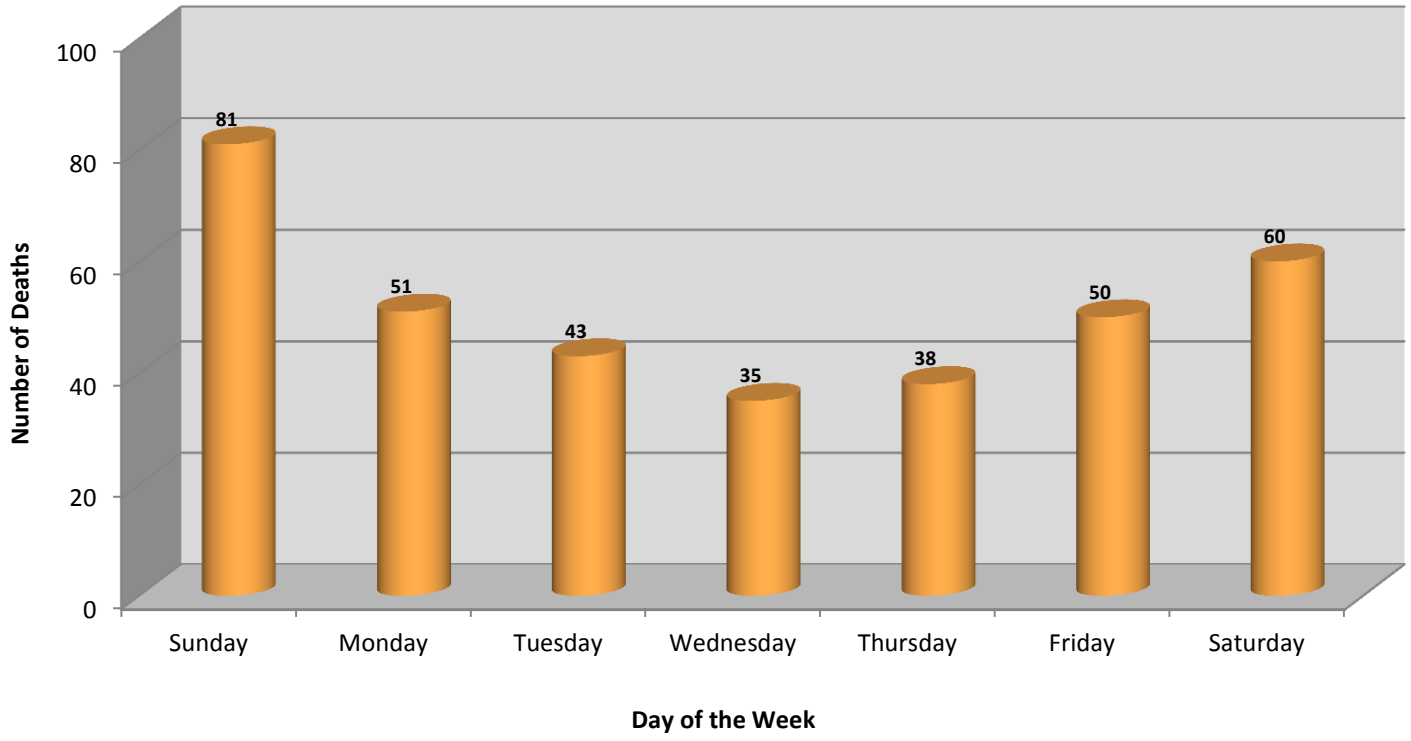


Table 2.6 Number and Rate of Homicide Deaths by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	4	12.1
Albemarle County	0	0.0
Alexandria City	4	2.7
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	1	3.1
Appomattox County	1	6.5
Arlington County	1	0.4
Augusta County	3	4.1
Bath County	0	0.0
Bedford County	3	3.9
Bland County	0	0.0
Botetourt County	2	6.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	1	4.3
Buckingham County	3	17.7
Buena Vista City	0	0.0
Campbell County	2	3.6
Caroline County	0	0.0
Carroll County	1	3.4
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	6	13.2
Chesapeake City	13	5.6
Chesterfield County	16	4.8
Clarke County	0	0.0
Colonial Heights City	1	5.6
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	12.2
Cumberland County	0	0.0
Danville City	3	7.1
Dickenson County	1	6.5
Dinwiddie County	0	0.0
Emporia City	2	36.6

Locality of Residence	Total Cases	Rate
Essex County	0	0.0
Fairfax City	0	0.0
Fairfax County	9	0.8
Falls Church City	0	0.0
Fauquier County	1	1.5
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	2	23.5
Franklin County	2	3.5
Frederick County	2	2.4
Fredericksburg City	1	3.5
Galax City	0	0.0
Giles County	1	5.9
Gloucester County	1	2.7
Goochland County	1	4.6
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	1	2.8
Hampton City	10	7.3
Hanover County	1	1.0
Harrisonburg City	1	1.9
Henrico County	12	3.7
Henry County	4	7.7
Highland County	0	0.0
Hopewell City	7	31.5
Isle of Wight County	1	2.8
James City County	0	0.0
King and Queen County	0	0.0
King George County	1	3.9
King William County	0	0.0
Lancaster County	1	9.1
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	5	1.4
Louisa County	1	2.9

Locality of Residence	Total Cases	Rate
Lunenburg County	0	0.0
Lynchburg City	6	7.6
Madison County	0	0.0
Manassas	1	2.4
Manassas Park	0	0.0
Martinsville City	1	7.3
Mathews County	1	11.3
Mecklenburg County	1	3.2
Middlesex County	0	0.0
Montgomery County	2	2.1
Nelson County	1	6.7
New Kent County	0	0.0
Newport News City	21	11.5
Norfolk City	31	12.6
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.4
Orange County	2	5.7
Page County	4	16.8
Patrick County	2	11.0
Petersburg City	12	36.7
Pittsylvania County	3	4.8
Poquoson City	0	0.0
Portsmouth City	13	13.5
Powhatan County	0	0.0
Prince Edward County	1	4.3
Prince George County	1	2.7
Prince William County	7	1.6
Pulaski County	4	11.7
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	31	14.2
Richmond County	0	0.0

Locality of Residence	Total Cases	Rate
Roanoke City	2	2.0
Roanoke County	1	1.1
Rockbridge County	0	0.0
Rockingham County	3	3.8
Russell County	3	10.7
Salem City	0	0.0
Scott County	0	0.0
Shenandoah County	1	2.3
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	1	0.8
Stafford County	1	0.7
Staunton City	3	12.2
Suffolk City	3	3.5
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	1	2.3
Virginia Beach City	18	4.0
Warren County	1	2.6
Washington County	6	11.0
Waynesboro City	1	4.7
Westmoreland County	1	5.7
Williamsburg City	1	6.8
Winchester City	0	0.0
Wise County	2	5.0
Wythe County	1	3.4
York County	3	4.5
Subtotal (in-state)	**339**	**4.1**
Out of State	16	ND
Unknown	3	ND
Subtotal (out-of-state)	**19**	**ND**
TOTAL	**358**	**4.3**

*No denominator is represented by ND

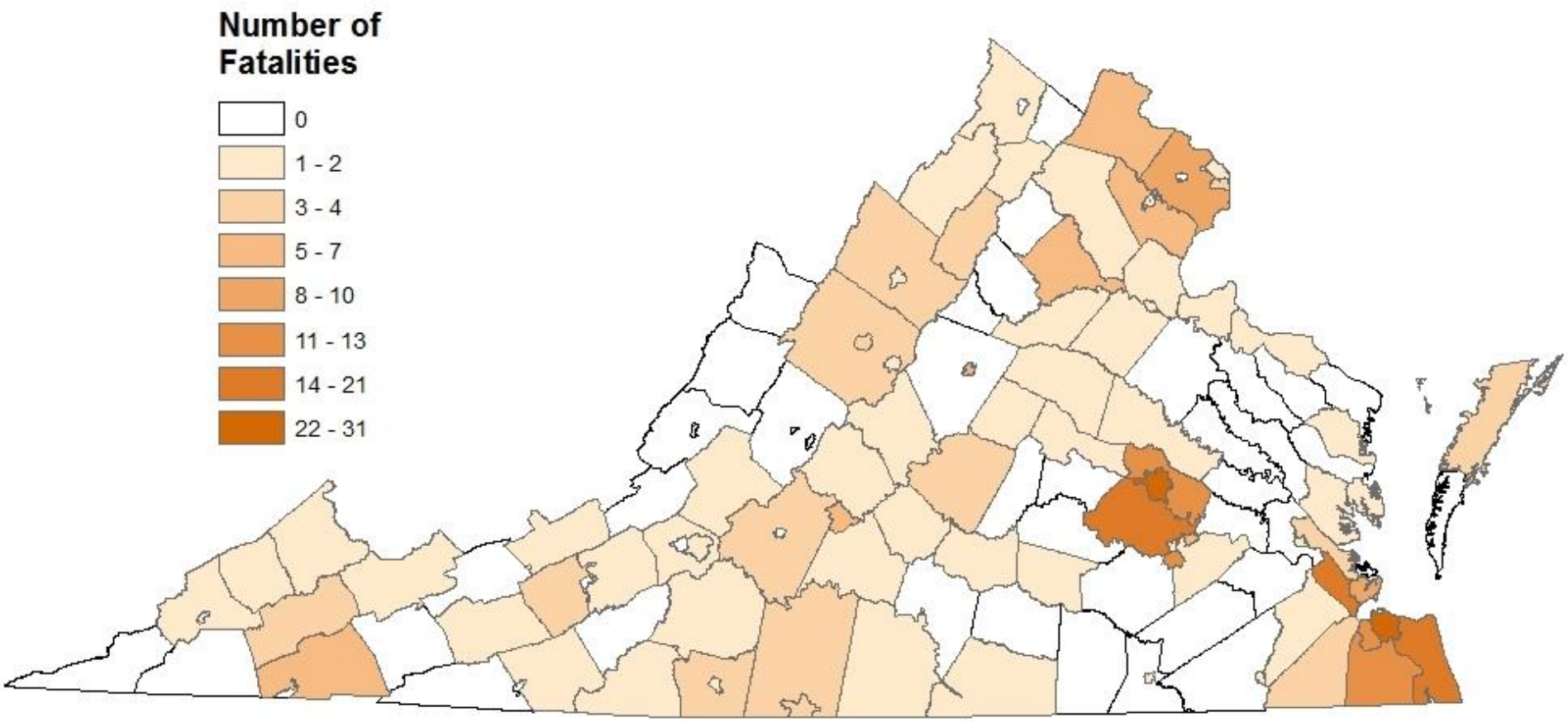
Table 2.7 Top 10 Localities with the Largest Number of Residential Homicides, 2014

Rank #	Locality of Residence	Total Cases
1	Norfolk City	31
	Richmond City	31
3	Newport News City	21
4	Virginia Beach City	18
5	Chesterfield County	16
6	Chesapeake City	13
	Portsmouth City	13
8	Henrico County	12
	Petersburg City	12
10	Hampton City	10

Table 2.8 Top 10 Localities with the Highest Rate of Residential Homicides, 2014

Rank #	Locality of Residence	Rate
1	Petersburg City	36.7
2	Emporia City	36.6
3	Hopewell City	31.5
4	Franklin City	23.5
5	Buckingham County	17.7
6	Page County	16.8
7	Richmond City	14.2
8	Portsmouth City	13.5
9	Charlottesville City	13.2
10	Norfolk City	12.6

Map 2.1 Number of Homicides by Locality of Residence, 2014



Map 2.2 Homicide Rates by Locality of Residence, 2014

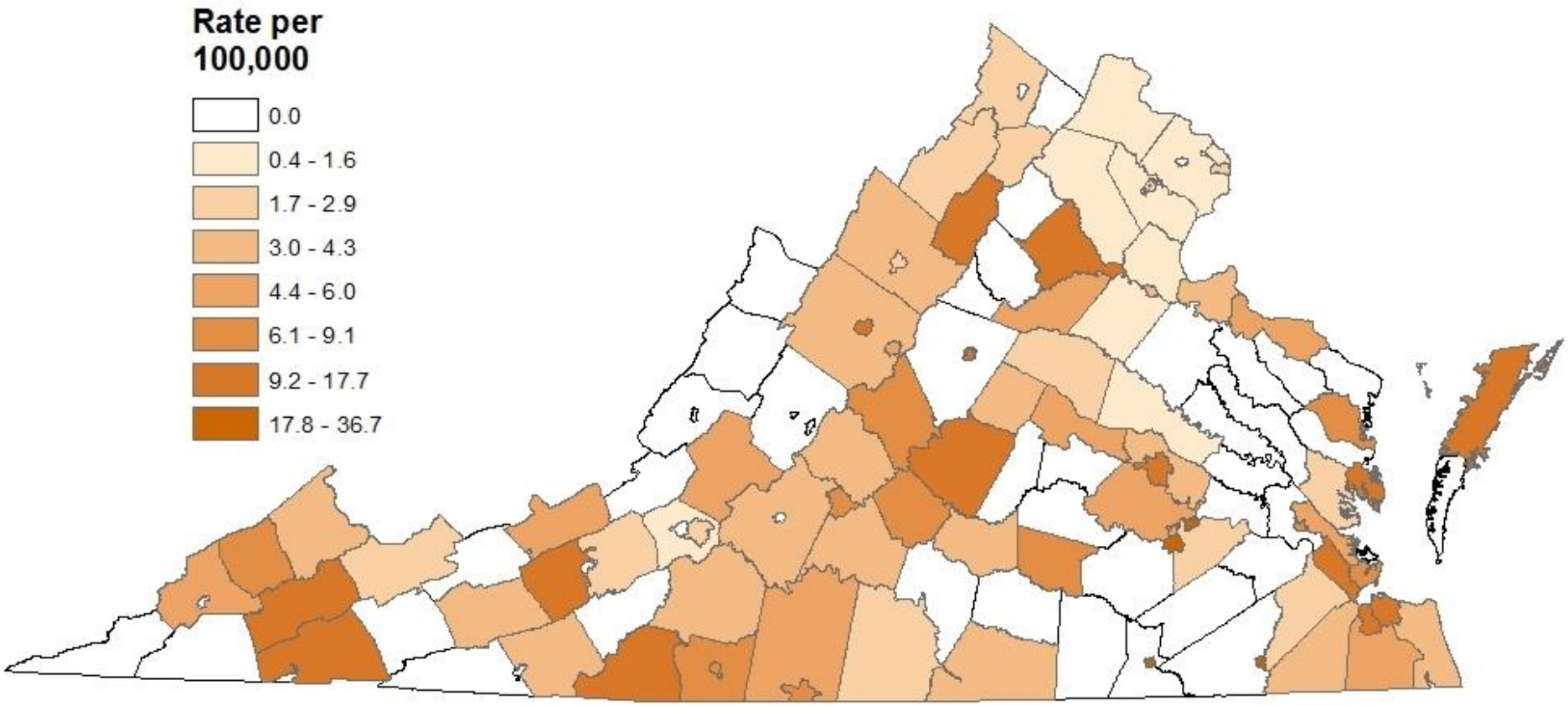


Table 2.9 Number and Rate of Homicide Deaths by Locality of Injury, 2014

Locality of Injury	Total Cases	Rate
Accomack County	4	12.1
Albemarle County	1	1.0
Alexandria City	3	2.0
Alleghany County	0	0.0
Amelia County	1	7.8
Amherst County	1	3.1
Appomattox County	2	13.1
Arlington County	1	0.4
Augusta County	4	5.4
Bath County	0	0.0
Bedford County	4	5.2
Bland County	0	0.0
Botetourt County	1	3.0
Bristol City	0	0.0
Brunswick County	0	0.0
Buchanan County	1	4.3
Buckingham County	2	11.8
Buena Vista City	0	0.0
Campbell County	1	1.8
Caroline County	0	0.0
Carroll County	1	3.4
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	5	11.0
Chesapeake City	11	4.7
Chesterfield County	9	2.7
Clarke County	0	0.0
Colonial Heights City	1	5.6
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	12.2
Cumberland County	0	0.0
Danville City	3	7.1
Dickenson County	1	6.5
Dinwiddie County	0	0.0

Locality of Injury	Total Cases	Rate
Emporia City	2	36.6
Essex County	1	9.0
Fairfax City	0	0.0
Fairfax County	8	0.7
Falls Church City	0	0.0
Fauquier County	2	2.9
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	2	23.5
Franklin County	3	5.3
Frederick County	2	2.4
Fredericksburg City	0	0.0
Galax City	0	0.0
Giles County	1	5.9
Gloucester County	0	0.0
Goochland County	1	4.6
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	1	2.8
Hampton City	10	7.3
Hanover County	1	1.0
Harrisonburg City	1	1.9
Henrico County	10	3.1
Henry County	2	3.8
Highland County	0	0.0
Hopewell City	5	22.5
Isle of Wight County	1	2.8
James City County	1	1.4
King and Queen County	0	0.0
King George County	1	3.9
King William County	0	0.0
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0

Locality of Injury	Total Cases	Rate
Loudoun County	7	1.9
Louisa County	1	2.9
Lunenburg County	0	0.0
Lynchburg City	6	7.6
Madison County	0	0.0
Manassas	1	2.4
Manassas Park	0	0.0
Martinsville City	2	14.6
Mathews County	0	0.0
Mecklenburg County	1	3.2
Middlesex County	2	18.7
Montgomery County	2	2.1
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	24	13.1
Norfolk City	34	13.9
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.4
Orange County	2	5.7
Page County	3	12.6
Patrick County	2	11.0
Petersburg City	14	42.8
Pittsylvania County	3	4.8
Poquoson City	0	0.0
Portsmouth City	11	11.5
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	1	2.7
Prince William County	6	1.3
Pulaski County	3	8.7
Radford City	0	0.0
Rappahannock County	0	0.0

Locality of Injury	Total Cases	Rate
Richmond City	45	20.7
Richmond County	0	0.0
Roanoke City	3	3.0
Roanoke County	1	1.1
Rockbridge County	0	0.0
Rockingham County	3	3.8
Russell County	3	10.7
Salem City	0	0.0
Scott County	0	0.0
Shenandoah County	3	7.0
Smyth County	1	3.2
Southampton County	0	0.0
Spotsylvania County	2	1.5
Stafford County	1	0.7
Staunton City	1	4.1
Suffolk City	2	2.3
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	1	2.3
Virginia Beach City	17	3.8
Warren County	1	2.6
Washington County	6	11.0
Waynesboro City	2	9.4
Westmoreland County	0	0.0
Williamsburg City	0	0.0
Winchester City	0	0.0
Wise County	2	5.0
Wythe County	0	0.0
York County	3	4.5
Subtotal (in-state)	**342**	**4.1**
Out of State	7	ND
Unknown	9	ND
Subtotal (out-of-state)	**16**	**ND**
TOTAL	**358**	**4.3**

Note: No denominator is represented by ND.

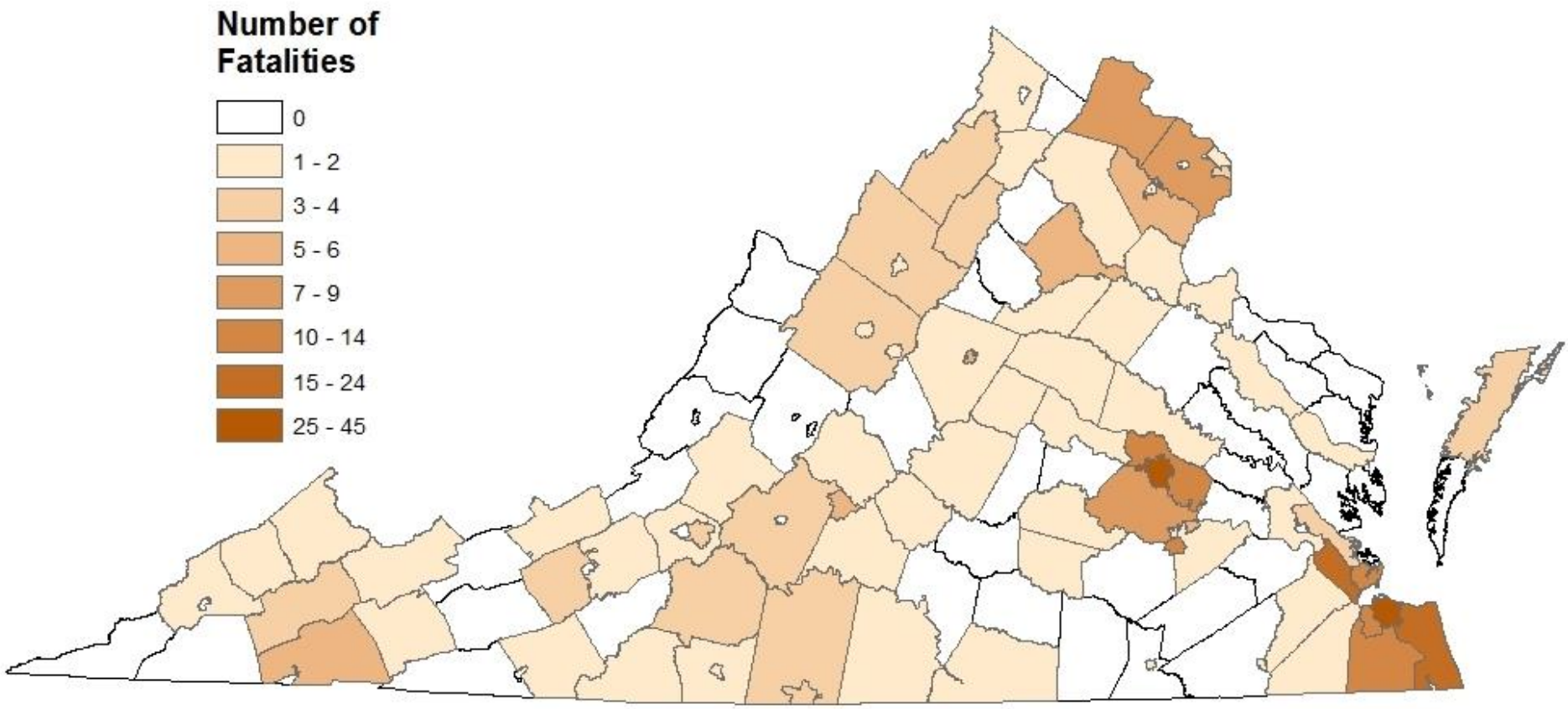
Table 2.10 Top 10 Localities with the Largest Number of Homicides by Locality of Injury, 2014

Rank #	Locality of Injury	Total
1	Richmond City	45
2	Norfolk City	34
3	Newport News City	24
4	Virginia Beach City	17
5	Petersburg City	14
6	Chesapeake City	11
	Portsmouth City	11
8	Hampton City	10
	Henrico County	10
10	Chesterfield County	9

Table 2.11 Top 10 Locations City/Counties with the Highest Rate of Homicides by Locality of Injury, 2014

Rank #	Locality of Injury	Rate per 100,000
1	Petersburg City	42.8
2	Emporia City	36.6
3	Franklin City	23.5
4	Hopewell City	22.5
5	Richmond City	20.7
6	Middlesex County	18.7
7	Martinsville City	14.6
8	Norfolk City	13.9
9	Newport News City	13.1
	Appomattox County	13.1

Map 2.3 Number of Homicides by Locality of Injury, 2014



Map 2.4 Homicide Rates by Locality of Injury, 2014

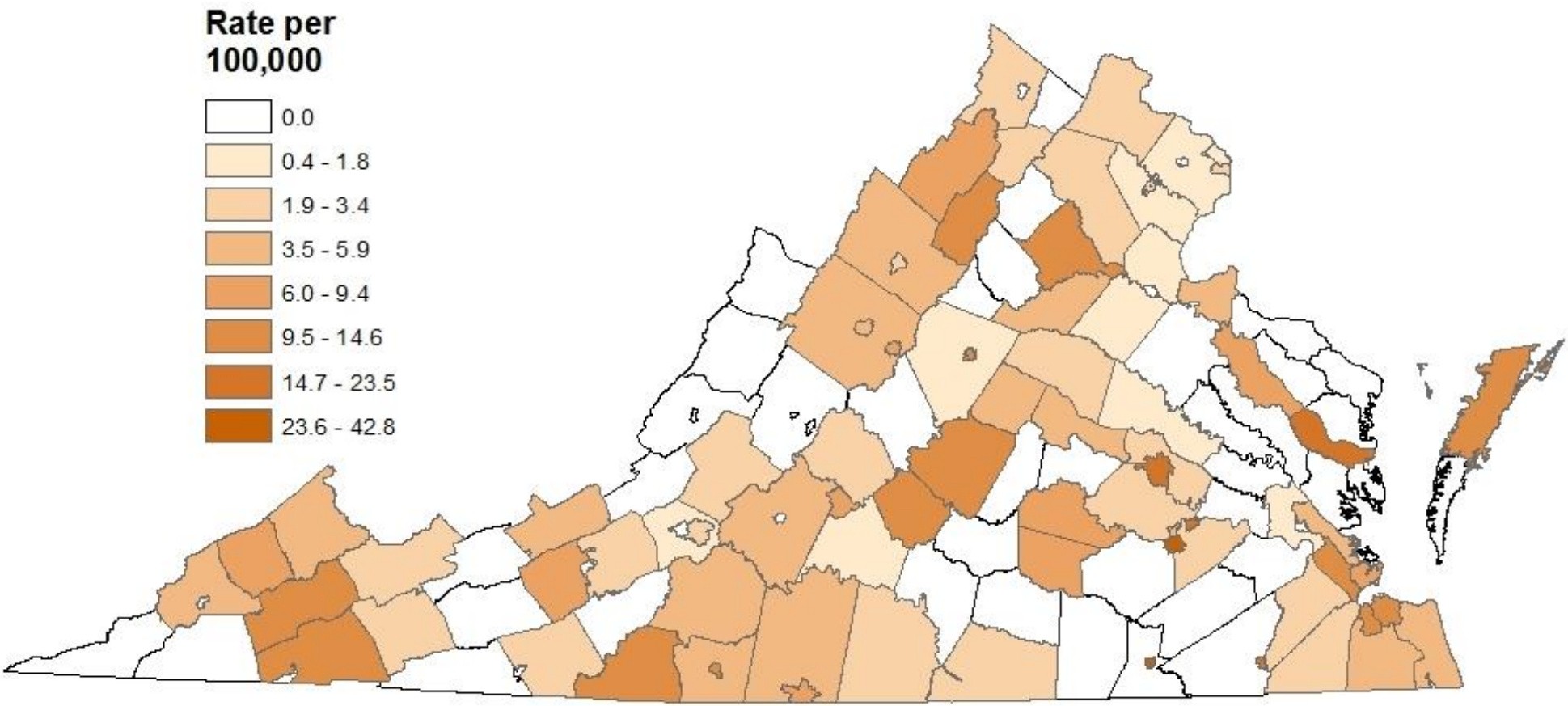


Table 2.12 Number of Homicide Deaths by Locality of Injury and Year of Death, 2006-2014

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Accomack County	5	6	2	2	3	6	2	5	4	**35**
Albemarle County	1	1	2	1	2	2	4	2	2	**17**
Alexandria City	4	7	4	5	2	1	0	6	4	**33**
Alleghany County	0	3	1	0	1	1	1	2	0	**9**
Amelia County	0	0	0	0	1	0	0	0	0	**1**
Amherst County	0	1	1	0	0	1	0	1	1	**5**
Appomattox County	0	2	1	0	8	1	0	0	1	**13**
Arlington County	3	2	4	2	0	0	5	0	1	**17**
Augusta County	3	1	0	2	2	2	2	0	4	**16**
Bath County	0	0	0	2	0	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	4	**11**
Bland County	0	0	0	1	0	0	0	0	0	**1**
Botetourt County	0	1	0	1	1	0	0	1	0	**4**
Bristol City	4	0	0	0	1	1	1	0	0	**7**
Brunswick County	3	1	2	1	0	1	1	0	0	**9**
Buchanan County	1	0	2	6	3	6	2	0	1	**21**
Buckingham County	1	2	0	0	0	1	0	1	2	**7**
Buena Vista City	0	0	0	0	0	0	0	1	0	**1**
Campbell County	2	2	2	5	2	1	3	3	0	**20**
Caroline County	5	4	0	0	0	1	0	0	0	**10**
Carroll County	1	4	1	1	1	0	0	4	1	**13**
Charles City County	0	0	1	0	0	0	0	0	0	**1**
Charlotte County	0	0	2	1	0	1	1	1	0	**6**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Charlottesville City	5	3	5	0	3	1	2	2	8	**29**
Chesapeake City	7	15	12	17	14	12	12	9	8	**106**
Chesterfield County	5	9	12	4	10	10	11	10	9	**80**
Clarke County	0	0	1	1	0	0	0	0	0	**2**
Colonial Heights City	0	0	0	0	0	2	0	1	1	**4**
Covington City	0	0	0	0	1	1	1	1	0	**4**
Craig County	0	0	1	0	0	0	0	0	0	**1**
Culpeper County	1	1	0	0	0	3	1	2	6	**14**
Cumberland County	0	2	0	2	0	0	1	0	0	**5**
Danville City	5	6	10	8	9	6	3	6	3	**56**
Dickenson County	0	1	1	1	1	2	0	1	1	**8**
Dinwiddie County	5	1	1	1	2	1	3	5	0	**19**
Emporia City	1	2	1	0	1	1	1	1	1	**9**
Essex County	0	0	0	0	0	1	0	1	1	**3**
Fairfax City	1	1	1	0	0	0	0	1	0	**4**
Fairfax County	29	16	25	19	16	12	18	9	16	**160**
Falls Church City	0	0	0	0	0	0	1	1	0	**2**
Fauquier County	2	4	1	3	1	1	3	2	1	**18**
Floyd County	0	0	2	2	0	1	0	0	0	**5**
Fluvanna County	0	0	1	0	0	0	0	1	0	**2**
Franklin City	0	0	0	2	1	0	1	0	1	**5**
Franklin County	2	1	1	4	3	2	0	3	2	**18**
Frederick County	7	0	2	2	1	1	3	1	2	**19**
Fredericksburg City	0	2	2	1	0	1	2	2	1	**11**
Galax City	1	1	0	1	0	0	0	0	0	**3**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Giles County	1	0	0	0	0	1	0	1	1	**4**
Gloucester County	0	1	1	0	1	2	3	0	0	**8**
Goochland County	1	0	2	0	1	0	0	0	1	**5**
Grayson County	0	1	7	0	0	0	0	0	0	**8**
Greene County	0	1	0	0	0	3	0	0	0	**4**
Greensville County	5	0	6	4	4	2	0	3	0	**24**
Halifax County	1	3	4	0	2	2	0	0	0	**12**
Hampton City	14	7	9	11	17	8	15	23	7	**111**
Hanover County	2	0	1	0	1	2	5	1	1	**13**
Harrisonburg City	4	0	1	0	1	2	1	1	0	**10**
Henrico County	10	15	16	12	12	13	14	11	6	**109**
Henry County	7	3	6	5	7	6	5	3	3	**45**
Highland County	0	0	0	0	0	0	0	0	0	**0**
Hopewell City	4	3	3	4	2	3	2	3	5	**29**
Isle of Wight County	1	0	2	1	0	0	4	2	1	**11**
James City County	1	1	1	1	0	2	0	2	0	**8**
King and Queen County	0	0	0	0	0	0	1	1	0	**2**
King George County	0	0	0	2	0	0	0	0	1	**3**
King William County	0	2	0	0	0	1	0	0	0	**3**
Lancaster County	2	0	1	0	3	1	1	0	0	**8**
Lee County	0	1	2	1	4	4	1	2	0	**15**
Lexington City	0	0	0	0	0	0	0	0	0	**0**
Loudoun County	4	2	4	4	1	2	2	5	4	**28**
Louisa County	0	4	1	1	3	0	1	0	1	**11**
Lunenburg County	1	1	2	1	0	0	0	0	0	**5**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Lynchburg City	2	1	4	0	3	4	3	2	8	**27**
Madison County	0	0	1	0	1	3	1	1	0	**7**
Manassas	1	1	4	1	1	4	1	0	2	**15**
Manassas Park	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	0	1	0	**1**
Martinsville City	0	2	2	0	3	2	1	2	2	**14**
Mathews County	0	0	0	1	0	0	0	0	0	**1**
Mecklenburg County	0	1	4	1	2	1	0	2	1	**12**
Middlesex County	1	0	0	0	0	1	0	1	2	**5**
Montgomery County	3	33	3	7	2	1	0	2	2	**53**
Nelson County	0	1	0	1	1	1	0	1	0	**5**
New Kent County	0	0	1	1	0	0	0	0	0	**2**
Newport News City	20	30	16	24	23	18	20	16	26	**193**
Norfolk City	34	53	29	50	34	29	36	31	48	**344**
Northampton County	2	1	0	0	2	0	0	2	0	**7**
Northumberland County	0	1	0	0	0	0	1	0	0	**2**
Norton City	0	0	0	0	0	0	1	0	0	**1**
Nottoway County	0	1	0	1	1	0	2	0	1	**6**
Orange County	2	1	1	1	1	0	1	0	2	**9**
Page County	1	0	0	0	1	0	2	0	3	**7**
Patrick County	0	1	0	0	0	0	0	0	1	**2**
Petersburg City	10	7	5	11	13	7	5	9	12	**79**
Pittsylvania County	2	4	3	4	4	5	1	1	2	**26**
Poquoson City	0	0	0	0	0	0	0	0	0	**0**
Portsmouth City	18	17	16	18	14	12	11	8	7	**121**
Powhatan County	0	0	4	1	1	3	0	0	0	**9**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Prince Edward County	0	1	1	7	0	1	1	3	0	**14**
Prince George County	0	0	1	3	2	1	0	1	1	**9**
Prince William County	12	14	11	11	10	6	3	4	4	**75**
Pulaski County	1	0	2	1	2	0	1	1	4	**12**
Radford City	1	0	1	0	1	1	1	0	0	**5**
Rappahannock County	1	0	0	0	1	0	0	0	0	**2**
Richmond City	85	61	39	44	44	42	47	40	55	**457**
Richmond County	0	0	1	0	0	0	0	0	0	**1**
Roanoke City	13	8	13	12	8	9	9	11	7	**90**
Roanoke County	1	2	1	2	6	1	3	0	1	**17**
Rockbridge County	0	1	1	0	1	1	0	0	0	**4**
Rockingham County	1	0	1	1	0	1	0	0	4	**8**
Russell County	2	0	1	1	0	3	0	2	3	**12**
Salem City	0	0	2	1	1	0	0	2	0	**6**
Scott County	0	2	1	0	1	1	2	0	0	**7**
Shenandoah County	0	0	0	1	0	0	1	2	3	**7**
Smyth County	0	0	3	1	0	3	2	0	0	**9**
Southampton County	1	3	0	2	1	0	0	0	0	**7**
Spotsylvania County	4	4	0	4	6	3	1	4	1	**27**
Stafford County	1	3	6	6	2	2	1	5	1	**27**
Staunton City	0	0	2	3	2	1	0	1	1	**10**
Suffolk City	8	3	5	8	4	3	2	7	2	**42**
Surry County	0	0	1	0	2	0	1	0	0	**4**
Sussex County	1	0	0	0	0	0	1	2	0	**4**
Tazewell County	0	3	2	6	4	0	1	0	1	**17**

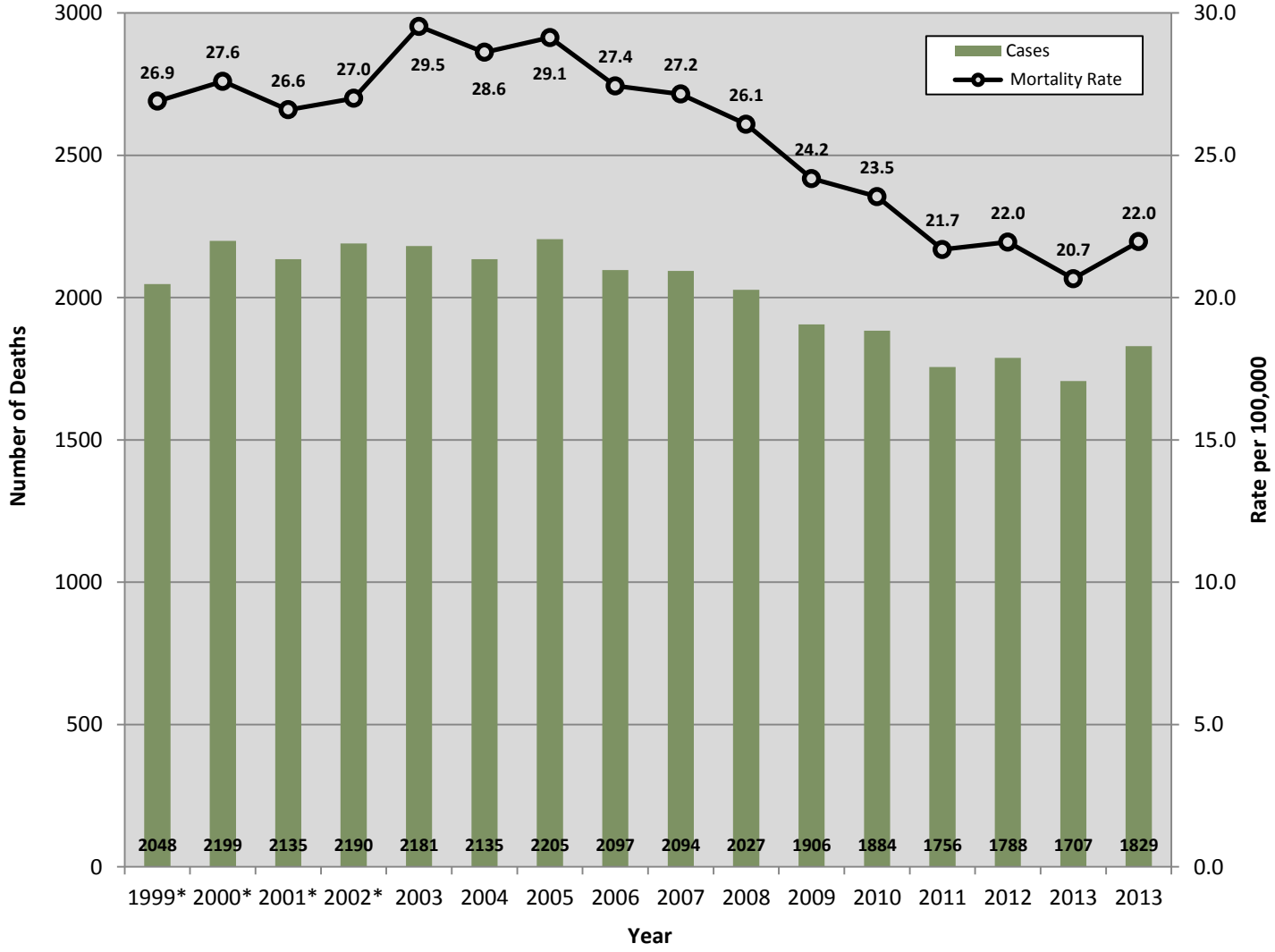
Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Virginia Beach City	20	18	18	17	15	17	22	19	17	**163**
Warren County	2	0	0	1	0	0	0	0	1	**4**
Washington County	0	1	2	1	2	3	3	2	4	**18**
Waynesboro City	0	1	1	0	2	0	0	0	0	**4**
Westmoreland County	2	1	1	0	0	0	1	0	0	**5**
Williamsburg City	1	0	0	0	0	1	0	0	0	**2**
Winchester City	2	2	0	0	0	0	0	1	1	**6**
Wise County	0	2	0	1	1	1	4	0	2	**11**
Wythe County	1	0	2	0	0	1	0	0	0	**4**
York County	3	1	1	2	0	2	0	2	4	**15**
Subtotal (in-state)	**422**	**435**	**387**	**403**	**376**	**334**	**334**	**332**	**353**	**3376**
Out of State	1	6	4	1	6	5	5	5	4	**37**
Unknown	4	2	8	6	9	6	5	3	1	**44**
Subtotal (out-of-state)	**5**	**8**	**12**	**7**	**15**	**11**	**10**	**8**	**5**	**81**
TOTAL	**427**	**443**	**399**	**410**	**391**	**345**	**344**	**340**	**358**	**3457**

NATURAL DEATHS (N=1,829)

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 29.7% of all deaths investigated by the OCME in 2014
- The number of natural deaths accepted by OCME increased in 2014 compared with 2013 (an increase of 122 deaths or 7.1%).

Figure 2.19 Number and Rate of Natural Deaths by Year of Death, 1999-2014



*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 Number of Natural Deaths by Age Group and Gender, 2014

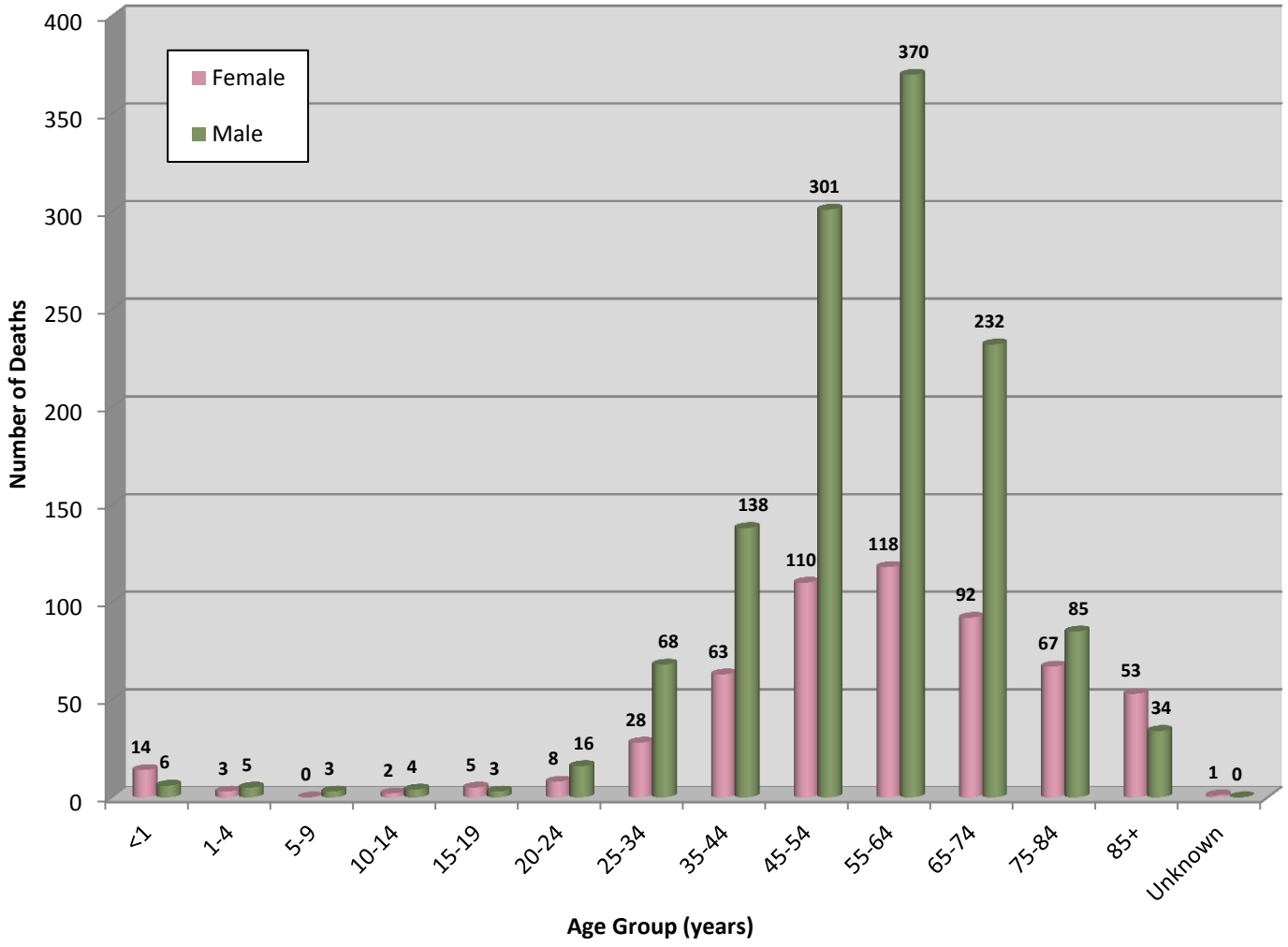


Table 2.13 Number of Natural Deaths by Cause and Method of Death, 2014

Method and Cause of Death	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Acute coronary insufficiency	1	**101**
Arrhythmogenic right ventricular dysplasia	3	**3**
Atherosclerosis	84	**524**
Atherosclerosis and hypertension	150	**243**
Cardiac dysrhythmia of undetermined etiology	21	**21**
Cardiomyopathy not otherwise specified	20	**25**
Congenital defect	2	**3**
Hypertension	96	**240**
Other cardiac disease/disorder	32	**39**
Valvular	6	**8**
Vascular dissection/rupture	13	**13**
Central Nervous System Diseases/Disorders		
Central nervous system malignancy	4	**4**
Degenerative disease	4	**10**
Meningitis (bacterial or viral)	0	**0**
Other CNS disease/disorder	9	**13**
Seizure disorder	14	**18**
Vascular disease	15	**27**
Gastrointestinal Diseases/Disorders		
Cirrhosis	3	**10**
GI hemorrhage	4	**15**
GI malignancy	18	**26**
Hepatitis	2	**8**
Other GI disease/disorder	15	**23**
Genitourinal Diseases/Disorders		
Genitourinal malignancy	3	**11**
Other GU disease/disorder	3	**5**
Renal disease	2	**5**
Other Natural Diseases/Disorders		
Other malignancy	2	**11**
Other natural disease/disorder	9	**16**
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	1	**1**

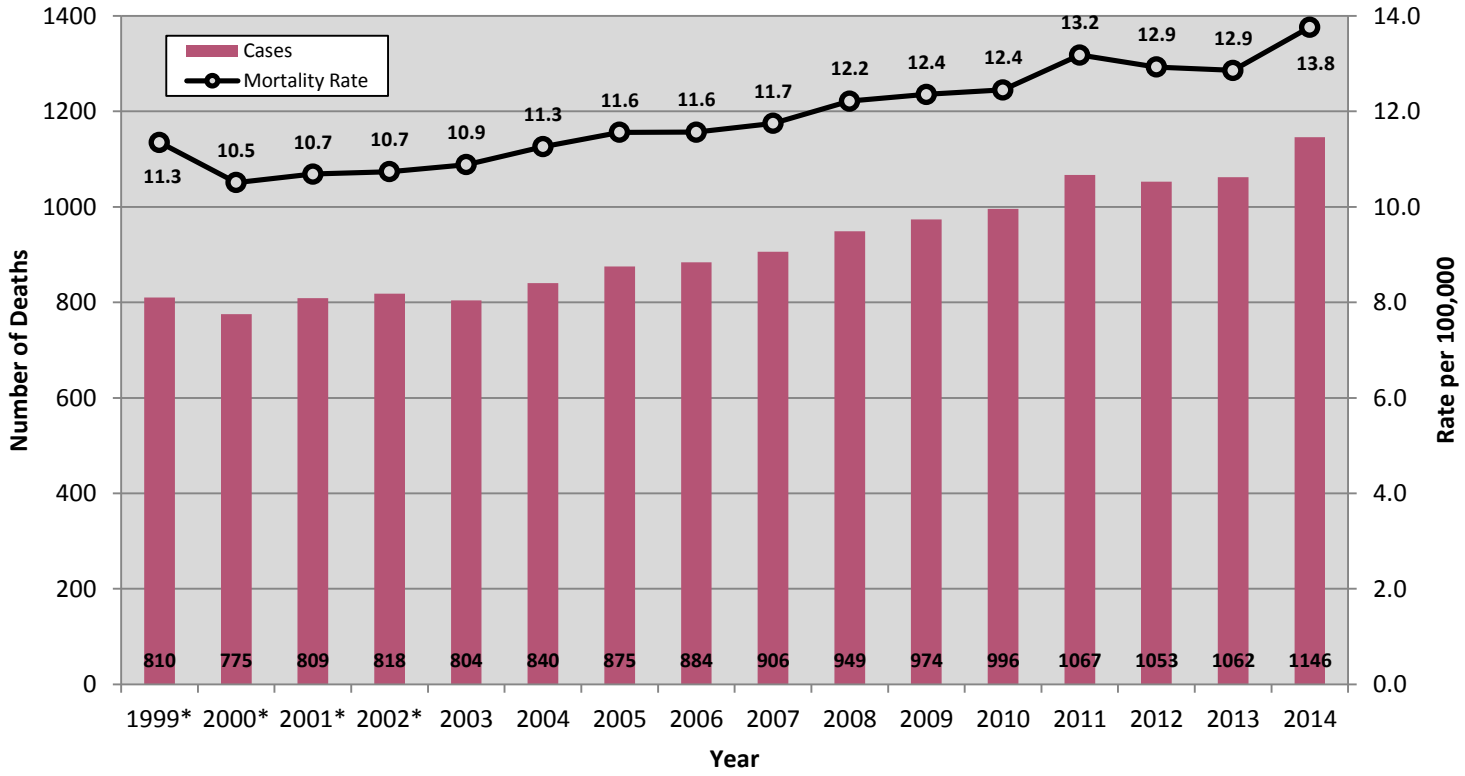
Method and Cause of Death	Autopsied	Total Cases
Maternal complications	1	**1**
Other perinatal or pediatric disorder	3	**4**
Sudden Infant Death Syndrome (SIDS)	3	**3**
Pulmonary Disease/Disorders		
Asthma	7	**7**
COPD	8	**25**
Emboli	38	**43**
Pneumonia	41	**68**
Pulmonary malignancy	9	**17**
Other pulmonary disease/disorder	5	**8**
Systemic Diseases/Disorders		
AIDS/HIV	0	**1**
Blood disorders	0	**5**
Chronic alcoholism	38	**128**
Chronic drug abuse	2	**2**
Diabetes	12	**41**
Metastatic malignancy of unknown primary	1	**2**
Obesity	4	**12**
Other infectious disease	6	**8**
Other systemic disease/disorder	8	**13**
Sepsis	10	**18**
TOTAL NATURAL DEATHS	**732**	**1829**

SUICIDE DEATHS (N=1,146)

In general, suicide deaths have been slowly increasing since 1999. In 2014, there were 84 more suicides than in 2013 (a 7.9% increase). The largest number of victims were male (77.4%), white (84.8%), and aged 45-54 years of age (20.3%). Males 85 years of age and older as well as white males had the highest rates of suicide compared to other groups within the total population (43.4 and 28.4 per 100,000 persons, respectively).

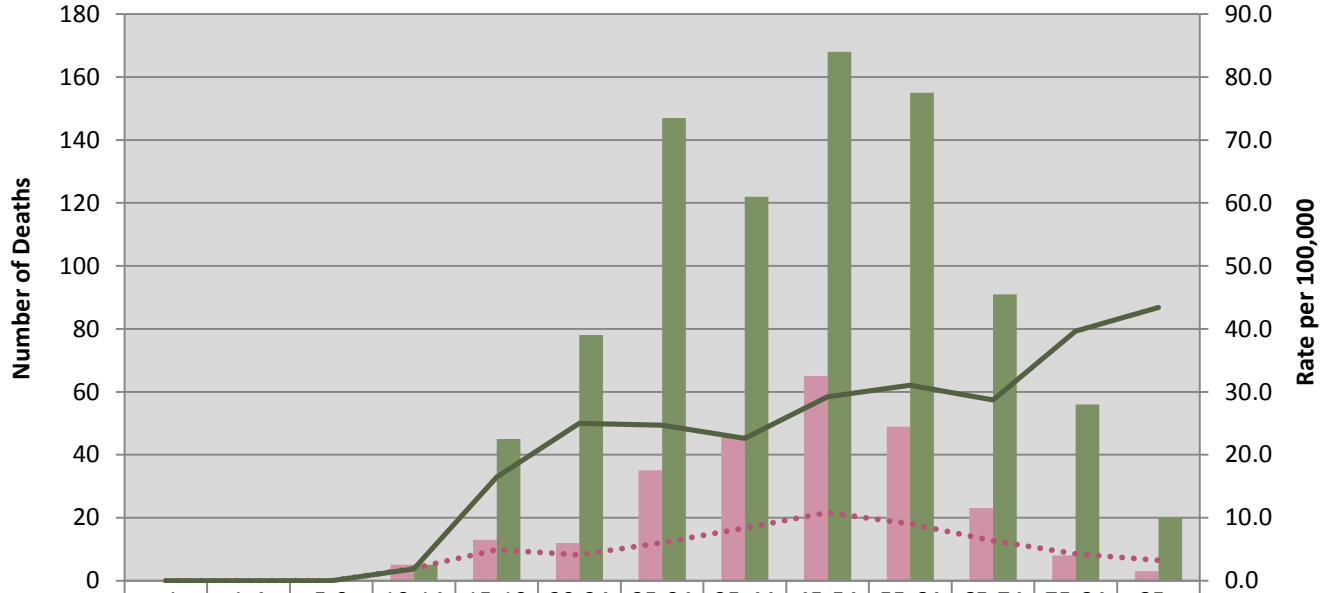
- Whites committed suicide at a rate 6.4 times that of Hispanics, 3.1 times that of Asians, 2.8 times that of Blacks, and 1.6 times that of Native Americans
- Males were 3.6 times more likely to commit suicide than females
- Firearms (specifically handguns), hangings, and drug use were the 3 most commonly used methods in suicides, with these deaths representing 43.5%, 20.9%, and 13.7% of all suicides, respectively
- Of the 67.7% of suicide decedents tested for toxicology, ethanol was present in 32.5%. Furthermore, of those tested for ethanol, 22.2% of suicides had a blood ethanol of 0.08% BAC or greater

Figure 2.21 Number and Rate of Suicide Deaths by Year of Death, 1999-2014



*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 Number and Rate of Suicide Deaths by Age Group and Gender, 2014



	<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	5	13	12	35	46	65	49	23	8	3
Male	0	0	0	5	45	78	147	122	168	155	91	56	20
Female Rate	0.0	0.0	0.0	2.0	4.9	4.1	6.0	8.4	10.8	9.1	6.4	4.3	3.2
Male Rate	0.0	0.0	0.0	1.9	16.5	25.0	24.7	22.6	29.2	31.1	28.7	39.6	43.4

Age group (years)

Figure 2.23 Percentage of Suicide Deaths by Race/Ethnicity, 2014

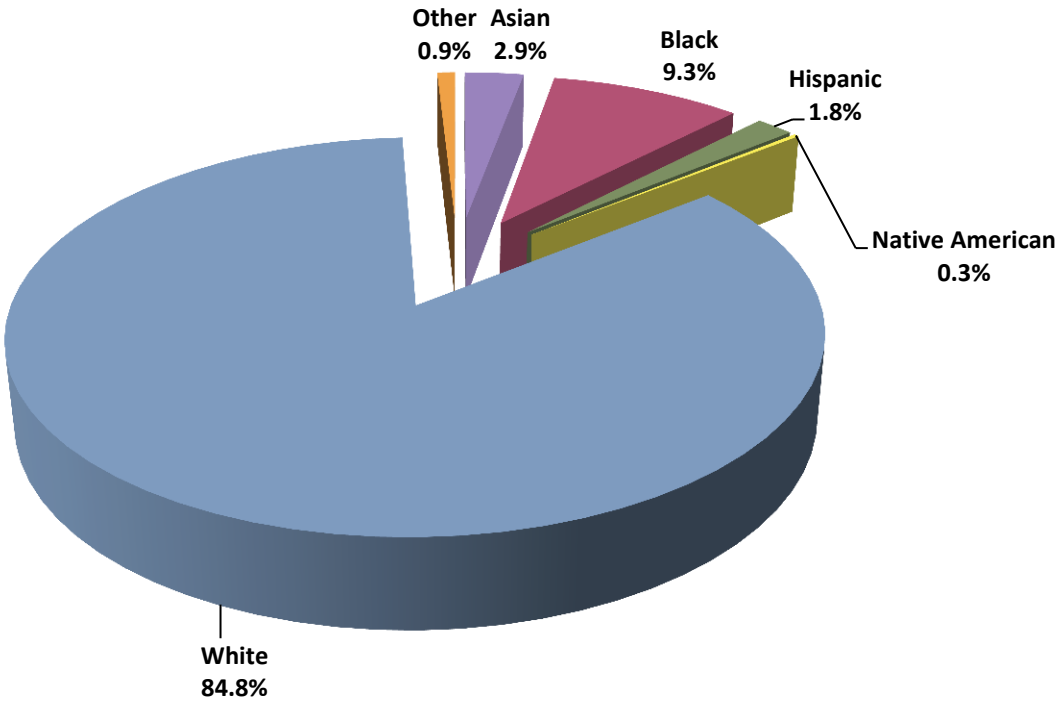
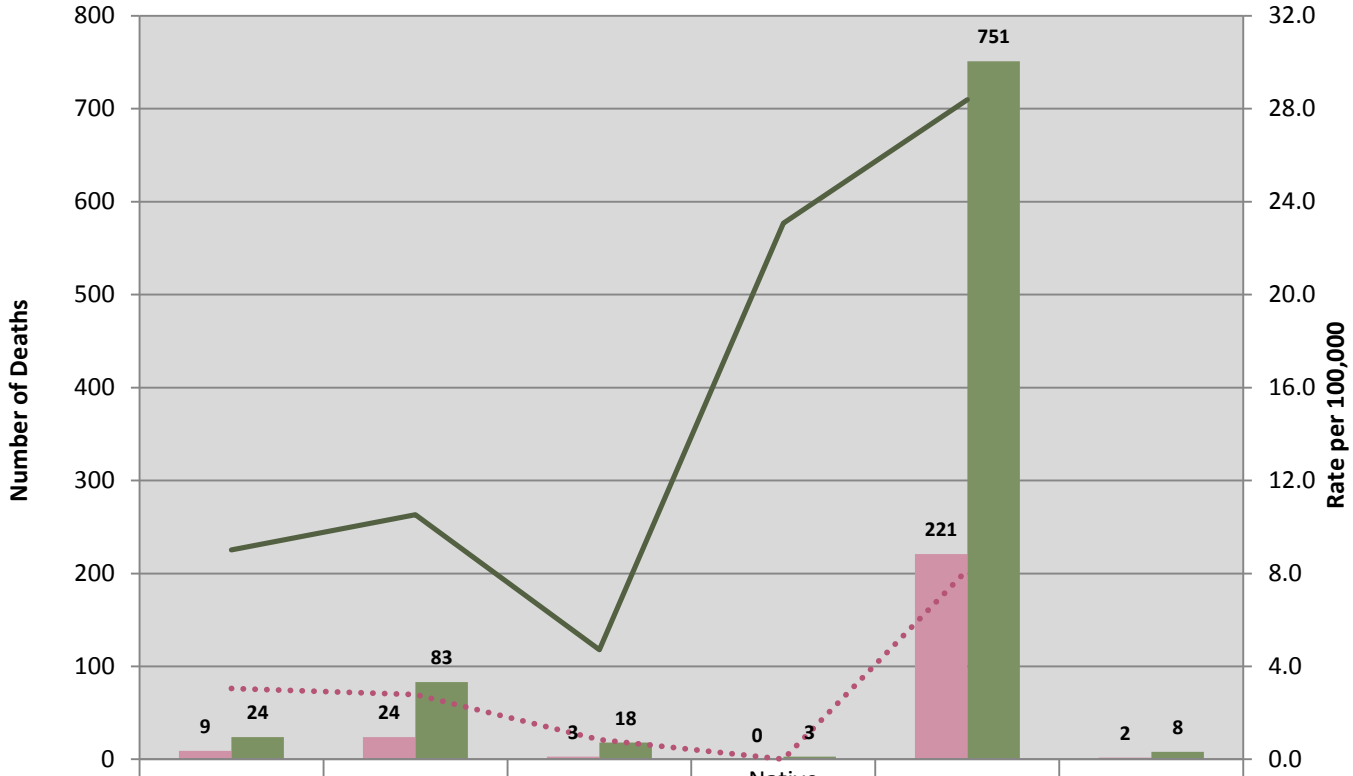


Figure 2.24 Number and Rate of Suicide Deaths by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	9	24	3	0	221	2
Male	24	83	18	3	751	8
Female Rate	3.0	2.8	0.8	0.0	8.2	*
Male Rate	9.0	10.5	4.7	23.1	28.4	*

Race/Ethnicity

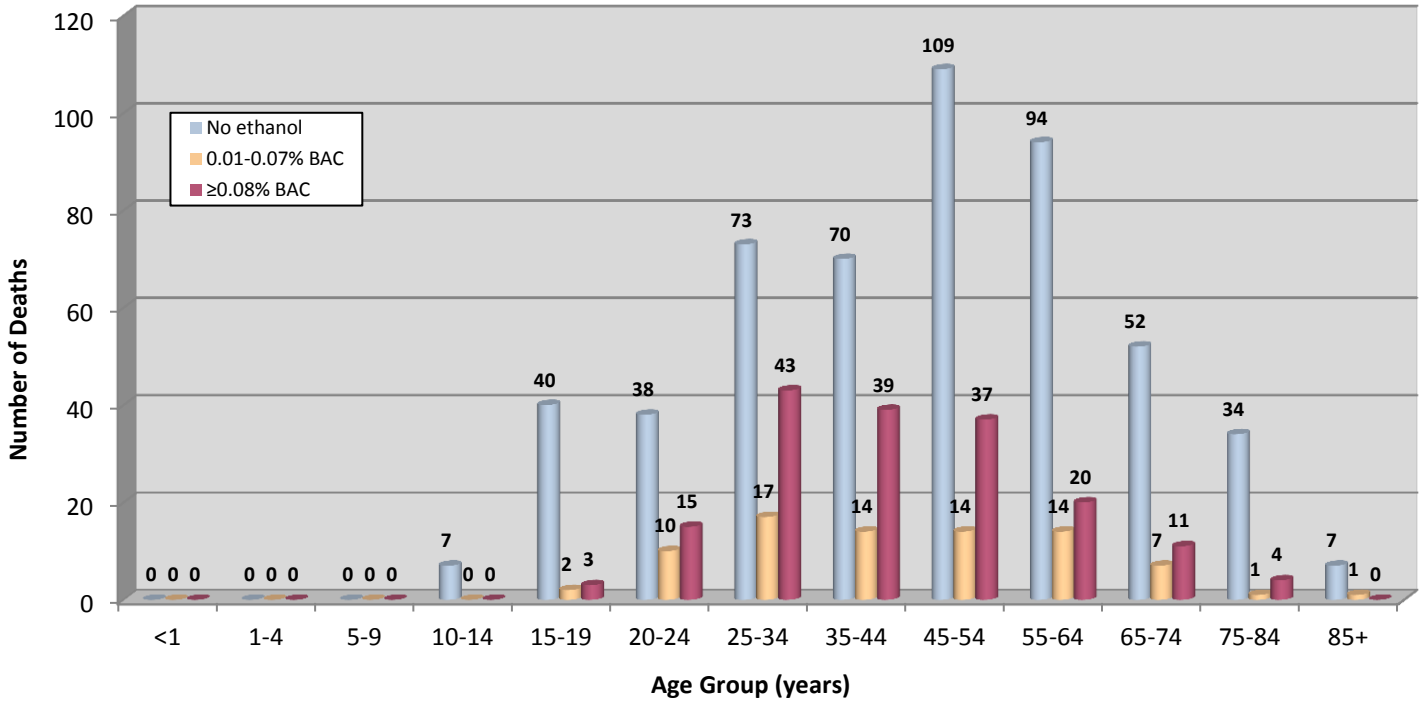
*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Table 2.14 Number of Suicide Deaths by Cause and Method of Death, 2014

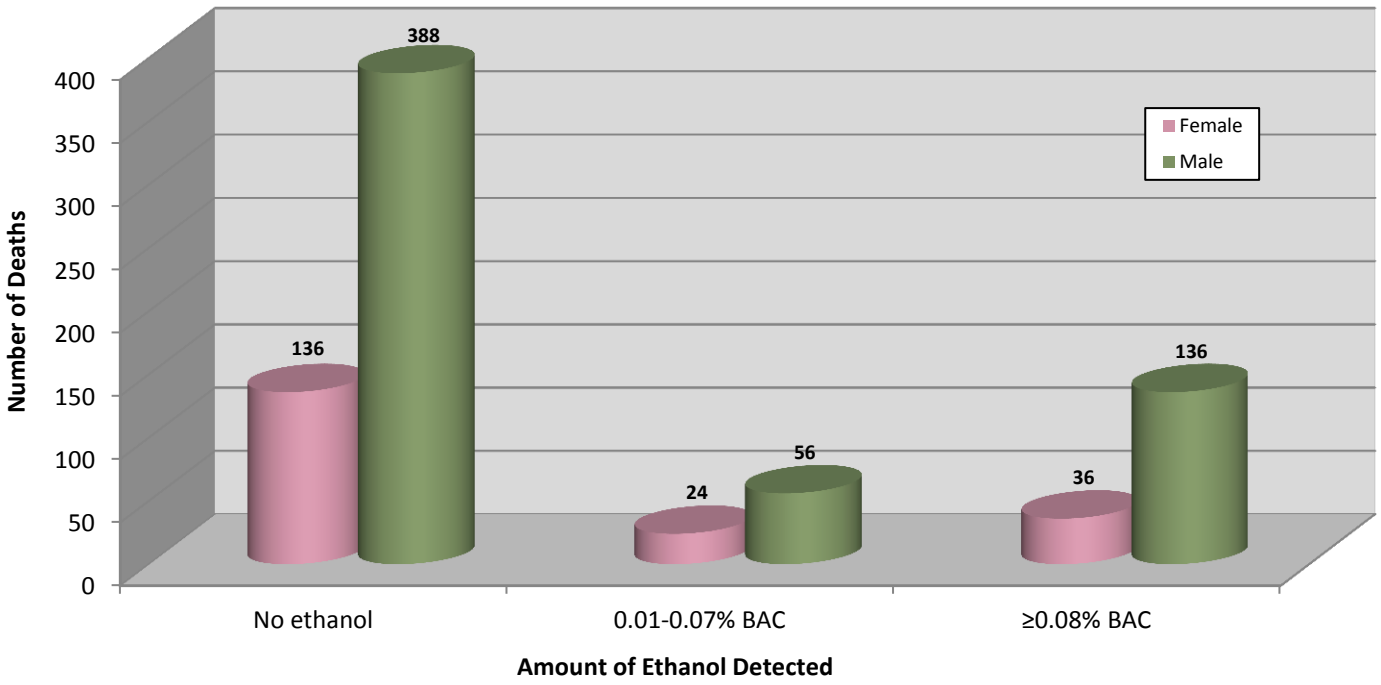
Method of Death	Autopsied	Total Cases
Asphyxia		
Carbon monoxide (CO) poisoning-motor vehicle exhaust	2	**7**
Carbon monoxide (CO) poisoning-other	2	**7**
Drowned	12	**15**
Hanged	67	**239**
Helium asphyxia	1	**11**
Plastic bag asphyxia	0	**5**
Strangled/Neck compression	3	**5**
Suffocated/Smothered	1	**3**
Drug Use		
Ingested ethylene glycol	0	**1**
Ingested and/or injected illicit, prescription, and/or other type of drug	119	**155**
Other poisoning (e.g. heavy metals, detergent suicide)	0	**1**
Jump/Fall		
Jumped/Fell from height	9	**18**
Other		
Other	2	**2**
Traumatic Injury		
Cut/Stabbed self	16	**23**
Thermal burns and/or inhalation of combustible material	1	**8**
Shot self with firearm		
Handgun	498	**499**
Rifle	53	**53**
Shotgun	81	**81**
Unknown	2	**2**
Vehicular		
Car	2	**4**
Motorcycle	0	**1**
Sport utility vehicle	1	**1**
Tractor Trailer	1	**1**
Train	2	**4**
TOTAL SUICIDE DEATHS	**875**	**1146**

Figure 2.25 Number of Suicide Deaths by Age Group and Ethanol Level (N=776), 2014



Note: Of the 1146 suicidal deaths, 32.3% (n=370) did not receive alcohol testing.

Figure 2.26 Number of Suicide Deaths by Gender and Ethanol Level (N=776), 2014



Note: Of the 1146 suicidal deaths, 32.3% (n=370) did not receive alcohol testing.

Table 2.15 Number of Suicide Deaths by Manner of Death and Ethanol Level (N=776), 2014

Method of Death	No Ethanol	0.01-0.07% BAC	≥0.08% BAC	Total Cases
Asphyxia				
Carbon monoxide (CO) poisoning-motor vehicle exhaust	4	2	0	**6**
Carbon monoxide (CO) poisoning-other	5	1	1	**7**
Drowned	10	0	4	**14**
Hanged	109	15	30	**154**
Helium asphyxia	7	0	1	**8**
Plastic bag asphyxia	2	0	0	**2**
Oxygen replacement/displacement				**0**
Strangled/Neck compression	2	0	3	**5**
Suffocated/Smothered	1	0	1	**2**
Drug Use				**0**
Ingested ethylene glycol	1	0	0	**1**
Ingested and/or injected illicit, prescription, and/or other type of drug	103	22	24	**149**
Other poisoning (e.g. heavy metals, detergent suicide)				**0**
Jump/Fall				**0**
Jumped/Fell from height	14	0	1	**15**
Other				**0**
Other	2	0	0	**2**
Traumatic Injury				**0**
Cut/Stabbed self	5	0	1	**6**
Thermal burns and/or inhalation of combustible material	7	2	6	**15**
Shot self with firearm				**0**
Handgun	198	34	75	**307**
Rifle	20	0	10	**30**
Shotgun	26	4	11	**41**
Unknown	1	0	1	**2**
Vehicular				**0**
Car	3	0	1	**4**
Motorcycle	0	0	1	**1**
Sport utility vehicle	1	0	0	**1**
Tractor Trailer	1	0	0	**1**
Train	2	0	1	**3**
TOTAL SUICIDE DEATHS	**524**	**80**	**172**	**776**

Figure 2.27 Number of Suicide Deaths by Month of Death, 2014

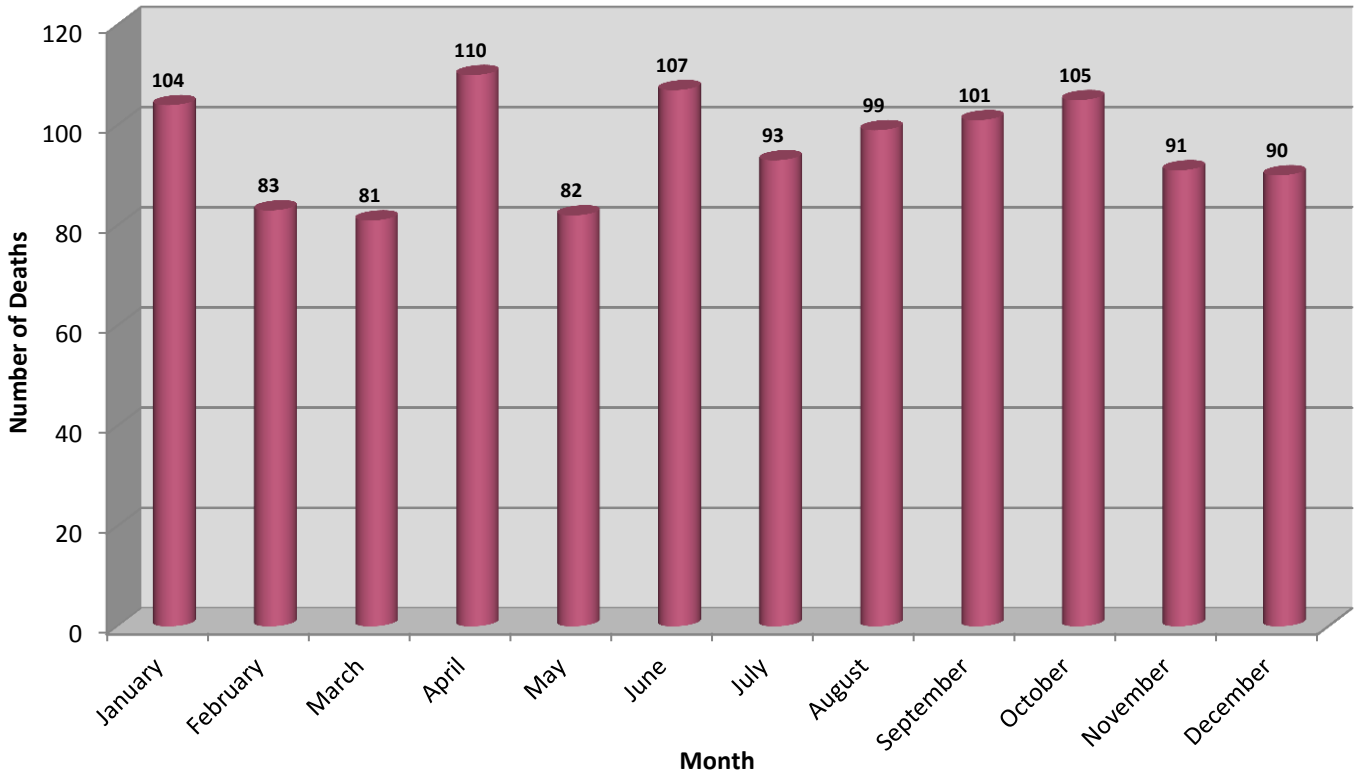


Figure 2.28 Number of Suicide Deaths by Day of the Week, 2014

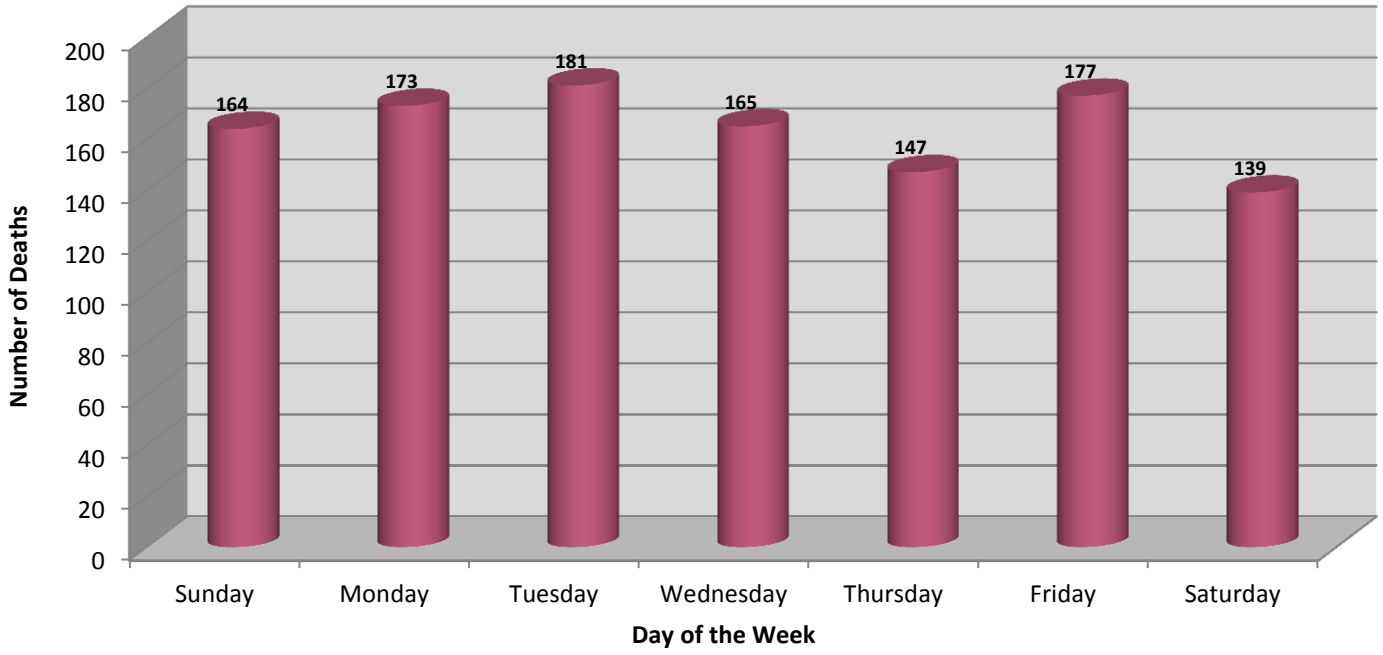


Table 2.16 Number and Rate of Suicide Deaths by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	5	15.1
Albemarle County	14	13.4
Alexandria City	12	8.0
Alleghany County	2	12.6
Amelia County	5	38.9
Amherst County	9	28.1
Appomattox County	1	6.5
Arlington County	18	7.9
Augusta County	19	25.7
Bath County	2	43.8
Bedford County	9	11.8
Bland County	3	45.3
Botetourt County	3	9.1
Bristol City	4	23.3
Brunswick County	2	12.1
Buchanan County	4	17.3
Buckingham County	2	11.8
Buena Vista City	0	0.0
Campbell County	6	10.9
Caroline County	11	36.9
Carroll County	5	16.9
Charles City County	2	28.5
Charlotte County	2	16.4
Charlottesville City	5	11.0
Chesapeake City	31	13.3
Chesterfield County	49	14.7
Clarke County	4	27.7
Colonial Heights City	4	22.6
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	13	26.4
Cumberland County	1	10.2
Danville City	7	16.5
Dickenson County	6	39.2
Dinwiddie County	4	14.4

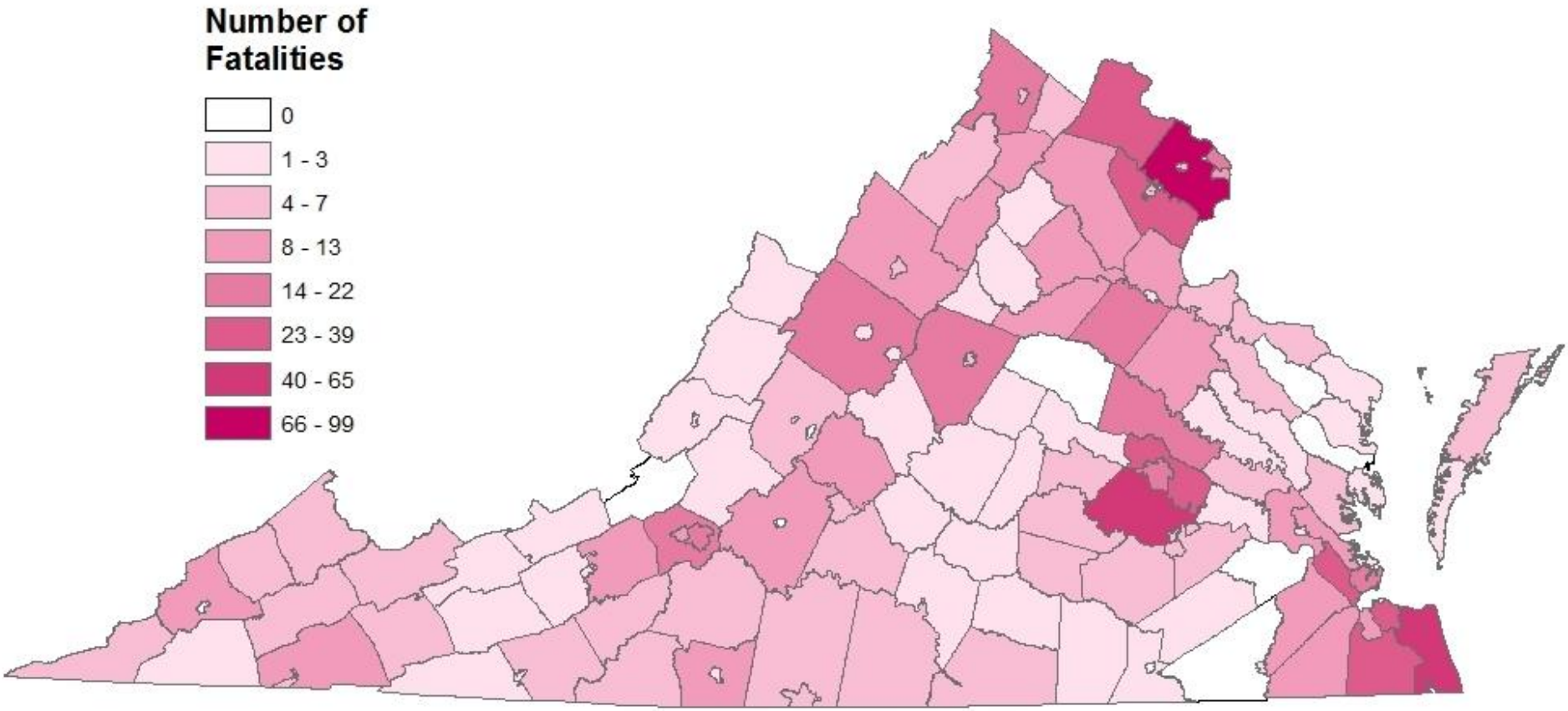
Locality of Residence	Total Cases	Rate
Emporia City	0	0.0
Essex County	5	45.0
Fairfax City	4	16.3
Fairfax County	99	8.7
Falls Church City	0	0.0
Fauquier County	11	16.1
Floyd County	6	38.5
Fluvanna County	2	7.7
Franklin City	2	23.5
Franklin County	4	7.1
Frederick County	17	20.6
Fredericksburg City	3	10.6
Galax City	1	14.3
Giles County	2	11.9
Gloucester County	4	10.8
Goochland County	3	13.7
Grayson County	3	19.9
Greene County	3	15.8
Greensville County	1	8.6
Halifax County	5	14.2
Hampton City	17	12.4
Hanover County	16	15.7
Harrisonburg City	5	9.5
Henrico County	38	11.8
Henry County	11	21.1
Highland County	2	89.0
Hopewell City	4	18.0
Isle of Wight County	8	22.2
James City County	12	16.5
King and Queen County	1	13.9
King George County	6	23.6
King William County	3	18.5
Lancaster County	2	18.1
Lee County	5	20.0
Lexington City	1	13.7

Locality of Residence	Total Cases	Rate
Loudoun County	39	10.7
Louisa County	0	0.0
Lunenburg County	2	16.0
Lynchburg City	7	8.9
Madison County	3	22.8
Manassas	7	16.6
Manassas Park	1	6.6
Martinsville City	1	7.3
Mathews County	3	34.0
Mecklenburg County	4	12.8
Middlesex County	0	0.0
Montgomery County	9	9.3
Nelson County	2	13.5
New Kent County	5	25.0
Newport News City	27	14.8
Norfolk City	32	13.0
Northampton County	3	24.8
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	4	25.7
Orange County	9	25.7
Page County	10	41.9
Patrick County	4	21.9
Petersburg City	6	18.3
Pittsylvania County	6	9.6
Poquoson City	1	8.3
Portsmouth City	10	10.4
Powhatan County	4	14.1
Prince Edward County	3	13.0
Prince George County	7	18.8
Prince William County	37	8.3
Pulaski County	2	5.8
Radford City	1	5.7
Rappahannock County	1	13.6
Richmond City	22	10.1

Locality of Residence	Total Cases	Rate
Richmond County	0	0.0
Roanoke City	19	19.1
Roanoke County	19	20.3
Rockbridge County	5	22.4
Rockingham County	11	14.1
Russell County	4	14.3
Salem City	9	35.3
Scott County	2	8.9
Shenandoah County	7	16.3
Smyth County	5	15.8
Southampton County	0	0.0
Spotsylvania County	14	10.8
Stafford County	10	7.1
Staunton City	2	8.2
Suffolk City	11	12.7
Surry County	0	0.0
Sussex County	1	8.5
Tazewell County	6	13.8
Virginia Beach City	65	14.4
Warren County	9	23.1
Washington County	8	14.6
Waynesboro City	2	9.4
Westmoreland County	4	22.9
Williamsburg City	3	20.4
Winchester City	7	25.4
Wise County	8	20.0
Wythe County	2	6.9
York County	9	13.6
Subtotal (in-state)	**1086**	**13.0**
Out of State	57	ND
Unknown	3	ND
Subtotal (out-of-state)	**60**	**ND**
TOTAL	**1146**	**13.8**

Note: No denominator is represented by ND

Map 2.5 Number of Suicides by Locality of Residence, 2014



Map 2.6 Suicide Rates by Locality of Residence, 2014

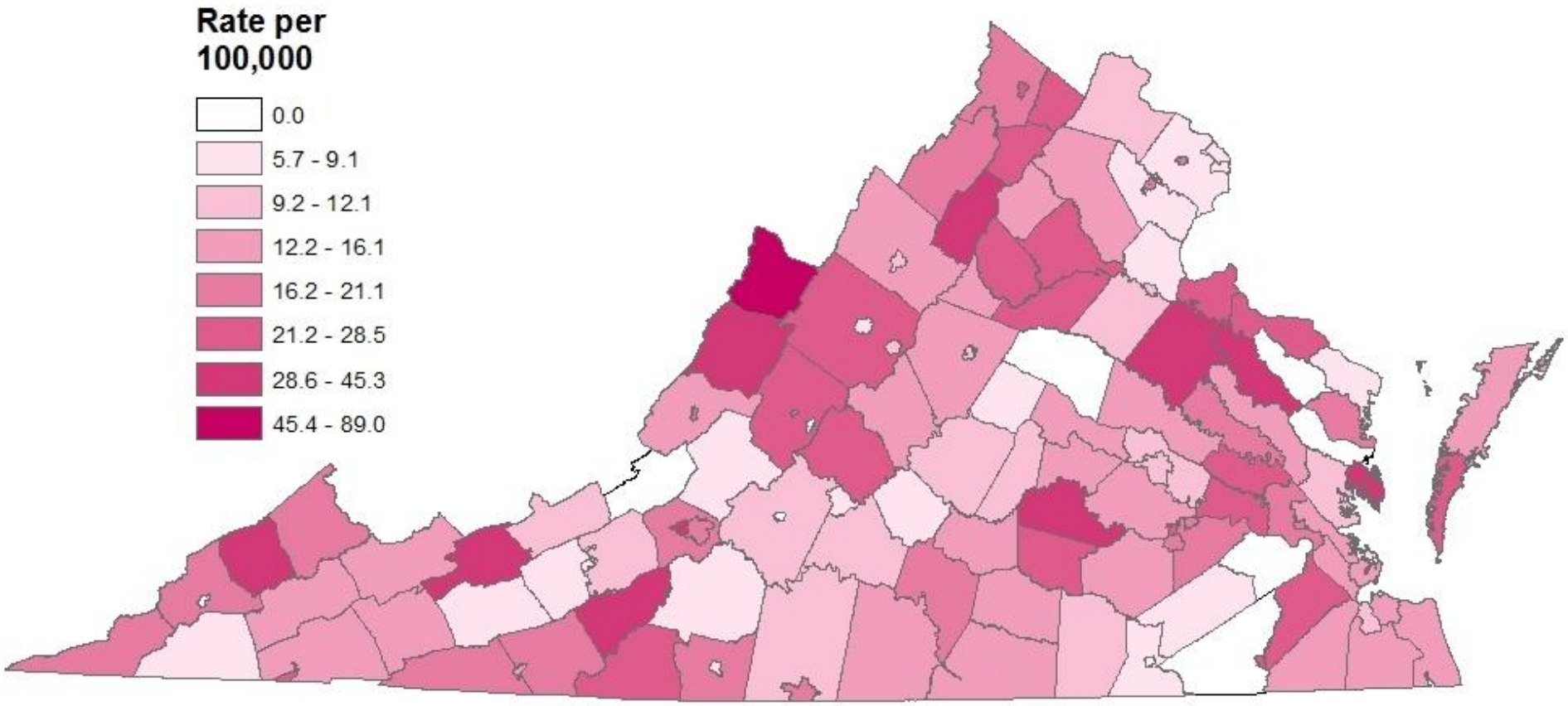


Table 2.17 Number of Suicide Deaths by Locality of Injury and Year of Death, 2006-2014

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Accomack County	4	2	1	4	6	6	1	4	4	**32**
Albemarle County	2	6	8	13	6	11	10	12	15	**83**
Alexandria City	12	11	13	14	14	14	10	16	15	**119**
Alleghany County	3	2	0	4	6	5	4	1	2	**27**
Amelia County	2	1	1	3	1	4	6	1	5	**24**
Amherst County	4	6	6	7	7	5	7	2	10	**54**
Appomattox County	2	0	0	3	3	2	2	1	2	**15**
Arlington County	14	12	28	10	21	16	16	18	18	**153**
Augusta County	12	11	13	16	11	14	16	20	20	**133**
Bath County	1	0	1	0	0	1	1	2	2	**8**
Bedford City	1	1	1	2	2	0	1	3	--	**11**
Bedford County	7	6	9	14	14	13	8	10	10	**91**
Bland County	2	1	0	3	1	1	1	1	3	**13**
Botetourt County	3	4	3	5	2	6	5	7	1	**36**
Bristol City	4	4	1	2	3	3	1	1	5	**24**
Brunswick County	2	2	1	1	3	1	1	2	2	**15**
Buchanan County	5	6	7	7	10	1	5	4	3	**48**
Buckingham County	3	3	5	1	3	2	2	4	2	**25**
Buena Vista City	0	0	1	1	1	0	0	1	0	**4**
Campbell County	6	3	7	6	6	10	9	13	8	**68**
Caroline County	3	6	3	3	5	2	2	8	12	**44**
Carroll County	6	8	6	10	9	7	6	8	6	**66**
Charles City County	0	0	2	2	2	3	7	1	2	**19**
Charlotte County	3	2	1	3	2	3	1	3	1	**19**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Charlottesville City	11	7	5	4	3	1	7	5	6	**49**
Chesapeake City	19	20	18	25	26	24	26	26	31	**215**
Chesterfield County	29	25	32	32	34	40	39	47	49	**327**
Clarke County	2	1	3	3	3	5	0	1	3	**21**
Colonial Heights City	1	2	3	1	2	1	6	2	6	**24**
Covington City	2	2	1	0	0	2	2	2	1	**12**
Craig County	0	1	2	4	0	2	1	4	0	**14**
Culpeper County	6	10	2	11	5	7	9	5	9	**64**
Cumberland County	0	1	2	2	0	3	1	3	1	**13**
Danville City	7	3	4	8	7	6	4	5	9	**53**
Dickenson County	2	5	5	8	7	5	7	7	7	**53**
Dinwiddie County	3	3	1	1	7	3	2	1	3	**24**
Emporia City	3	0	2	1	1	0	0	0	0	**7**
Essex County	0	1	3	2	3	2	3	2	5	**21**
Fairfax City	2	2	1	6	4	2	2	4	3	**26**
Fairfax County	85	86	88	104	87	90	98	109	107	**854**
Falls Church City	0	1	3	0	1	0	2	1	0	**8**
Fauquier County	7	4	8	9	14	14	13	16	9	**94**
Floyd County	2	2	1	3	4	4	5	5	6	**32**
Fluvanna County	2	3	4	2	2	3	5	6	2	**29**
Franklin City	0	0	0	0	1	0	1	1	2	**5**
Franklin County	5	8	6	7	3	10	11	12	6	**68**
Frederick County	9	7	7	8	8	14	19	12	20	**104**
Fredericksburg City	6	4	5	2	4	5	4	2	3	**35**
Galax City	1	1	2	1	3	3	1	0	1	**13**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Giles County	2	3	3	5	3	4	2	3	2	**27**
Gloucester County	7	6	9	4	8	13	9	4	4	**64**
Goochland County	2	5	2	4	2	0	1	6	4	**26**
Grayson County	3	2	5	2	2	8	5	2	4	**33**
Greene County	4	2	2	3	4	3	1	1	2	**22**
Greensville County	2	0	0	2	2	4	1	4	1	**16**
Halifax County	8	4	4	5	5	4	6	3	6	**45**
Hampton City	13	16	18	16	9	7	13	17	18	**127**
Hanover County	12	15	17	11	6	15	23	21	16	**136**
Harrisonburg City	2	4	4	6	6	2	1	4	6	**35**
Henrico County	37	26	25	39	30	42	31	41	36	**307**
Henry County	11	12	19	13	16	10	9	9	10	**109**
Highland County	0	0	0	0	1	1	1	2	1	**6**
Hopewell City	1	1	2	3	3	2	3	4	5	**24**
Isle of Wight County	5	1	0	3	2	4	6	4	5	**30**
James City County	5	4	9	7	9	6	10	4	12	**66**
King and Queen County	2	4	2	1	1	1	3	0	1	**15**
King George County	3	2	2	3	6	3	4	8	5	**36**
King William County	1	1	1	4	0	2	7	2	3	**21**
Lancaster County	0	3	4	1	2	2	4	2	2	**20**
Lee County	5	4	7	5	2	5	9	4	5	**46**
Lexington City	0	1	0	0	0	0	1	1	1	**4**
Loudoun County	20	23	13	24	20	35	35	34	34	**238**
Louisa County	5	8	2	5	9	7	3	3	2	**44**
Lunenburg County	6	1	1	3	1	2	3	2	2	**21**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Lynchburg City	8	6	13	5	9	10	6	4	7	**68**
Madison County	2	4	3	1	3	1	4	1	4	**23**
Manassas	2	3	9	3	1	5	5	4	6	**38**
Manassas Park	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	0	2	4	**0**
Martinsville City	0	4	0	1	1	4	1	3	2	**16**
Mathews County	1	0	2	0	1	2	1	1	3	**11**
Mecklenburg County	4	6	7	5	8	4	4	4	3	**45**
Middlesex County	0	1	1	5	1	3	3	4	0	**18**
Montgomery County	11	22	8	5	9	14	8	7	11	**95**
Nelson County	2	1	3	4	4	3	3	4	3	**27**
New Kent County	3	3	2	3	1	6	5	3	5	**31**
Newport News City	11	15	18	14	20	23	29	19	25	**174**
Norfolk City	27	34	29	22	29	28	29	30	34	**262**
Northampton County	0	4	1	0	1	5	0	2	3	**16**
Northumberland County	1	3	2	0	4	3	0	0	1	**14**
Norton City	0	0	2	1	0	1	1	0	0	**5**
Nottoway County	1	0	4	4	3	3	2	1	5	**23**
Orange County	6	4	5	2	4	5	12	6	9	**53**
Page County	6	5	7	3	4	8	4	5	11	**53**
Patrick County	3	4	4	4	7	4	5	9	5	**45**
Petersburg City	1	4	7	3	4	3	4	2	6	**34**
Pittsylvania County	13	9	6	13	9	9	12	16	5	**92**
Poquoson City	1	1	1	0	0	0	0	2	1	**6**
Portsmouth City	8	14	10	11	16	8	20	9	13	**109**
Powhatan County	5	2	4	2	8	6	5	4	6	**42**

Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Prince Edward County	3	3	1	5	3	3	4	3	4	**29**
Prince George County	6	7	7	7	5	4	3	5	8	**52**
Prince William County	32	29	35	41	42	28	33	37	39	**316**
Pulaski County	11	10	2	6	9	9	6	7	1	**61**
Radford City	1	0	2	0	2	1	1	5	2	**14**
Rappahannock County	0	4	3	1	3	2	5	0	2	**20**
Richmond City	32	25	22	35	21	33	25	27	23	**243**
Richmond County	1	1	4	0	2	1	1	1	0	**11**
Roanoke City	10	15	19	13	18	19	25	16	21	**156**
Roanoke County	11	7	19	9	20	14	13	12	17	**122**
Rockbridge County	5	4	6	5	5	6	3	3	7	**44**
Rockingham County	9	10	9	4	12	10	9	10	10	**83**
Russell County	5	4	10	7	5	6	6	6	4	**53**
Salem City	4	7	5	0	2	6	6	6	9	**45**
Scott County	3	12	5	4	5	6	5	4	2	**46**
Shenandoah County	7	5	8	8	5	9	7	7	8	**64**
Smyth County	3	11	5	3	3	6	7	10	6	**54**
Southampton County	4	1	4	3	4	2	2	2	1	**23**
Spotsylvania County	13	18	17	10	22	11	13	15	14	**133**
Stafford County	6	14	15	15	5	9	13	19	11	**107**
Staunton City	4	7	1	6	4	4	1	3	3	**33**
Suffolk City	11	1	10	6	5	14	12	12	14	**85**
Surry County	0	1	0	4	1	0	2	1	0	**9**
Sussex County	1	2	1	4	4	1	1	4	0	**18**
Tazewell County	11	4	4	12	6	6	8	5	5	**61**

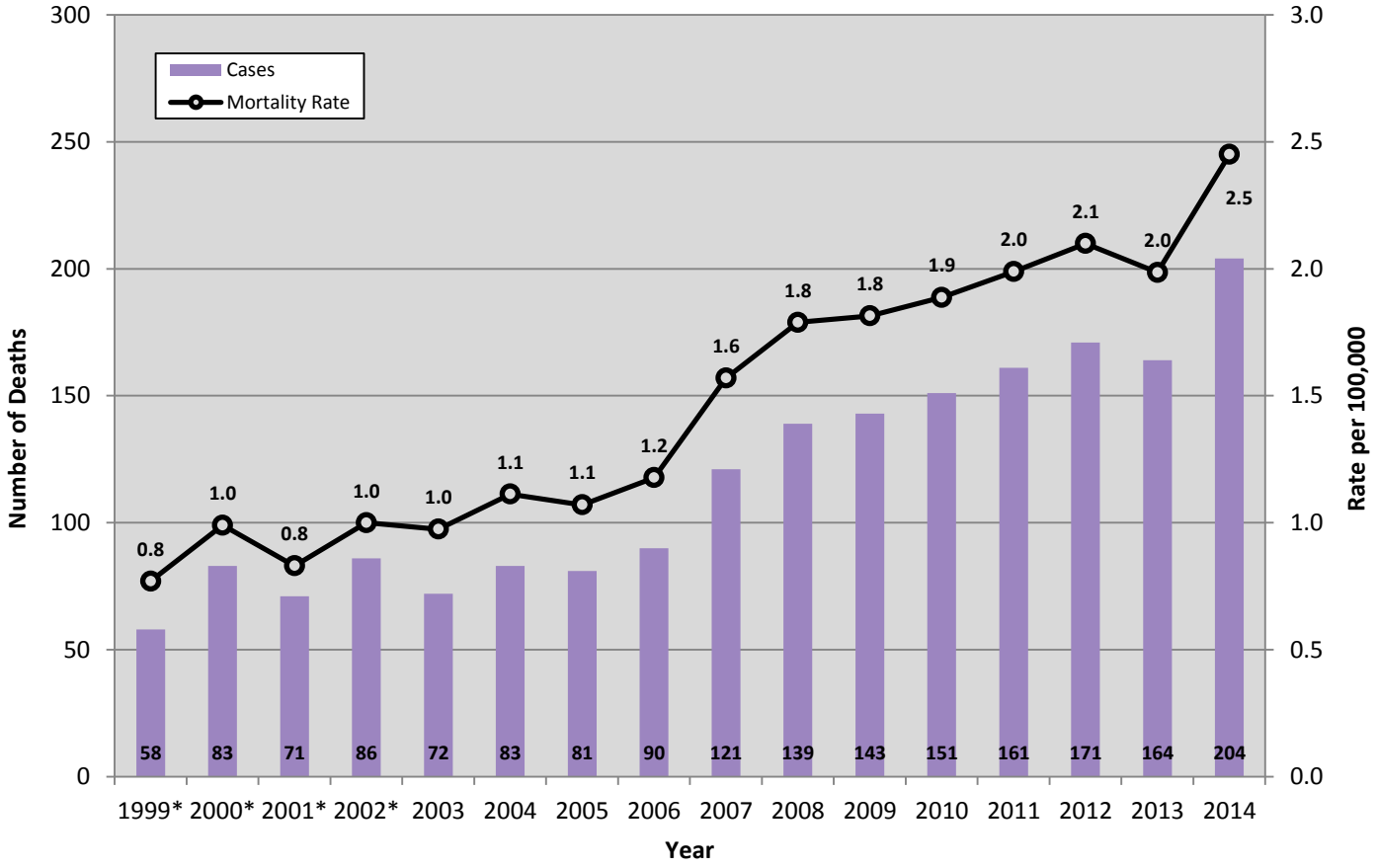
Locality of Injury	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Virginia Beach City	61	50	45	60	64	65	51	49	71	**516**
Warren County	3	12	8	6	5	7	8	7	8	**64**
Washington County	6	10	11	13	10	10	11	9	8	**88**
Waynesboro City	6	3	3	4	2	3	2	4	0	**27**
Westmoreland County	4	2	4	2	2	5	5	3	4	**31**
Williamsburg City	10	2	1	1	8	6	1	0	6	**35**
Winchester City	6	1	7	2	6	5	3	3	9	**42**
Wise County	9	13	8	4	5	9	3	3	8	**62**
Wythe County	4	4	8	5	2	7	4	3	5	**42**
York County	3	8	11	6	11	15	8	7	8	**77**
Subtotal (in-state)	**882**	**900**	**945**	**969**	**991**	**1058**	**1051**	**1056**	**1134**	**8980**
Out of State	2	6	3	4	4	9	2	6	9	**45**
Unknown	0	0	1	1	1	0	0	0	3	**6**
Subtotal (out-of-state)	**2**	**6**	**4**	**5**	**5**	**9**	**2**	**6**	**12**	**51**
TOTAL	**884**	**906**	**949**	**974**	**996**	**1067**	**1053**	**1062**	**1146**	**9031**

UNDETERMINED DEATHS (N=204)

Undetermined deaths are those in which the manner of death cannot be determined. In 2014, the number of undetermined deaths increased by 24.4% compared to 2013. Undetermined deaths have been increasing since 2006 mainly due to the transition in nomenclature of sudden infant death syndrome (SIDS) to sudden unexpected infant death (SUID), where SIDS deaths are classified as natural deaths and SUID deaths are classified as undetermined deaths.

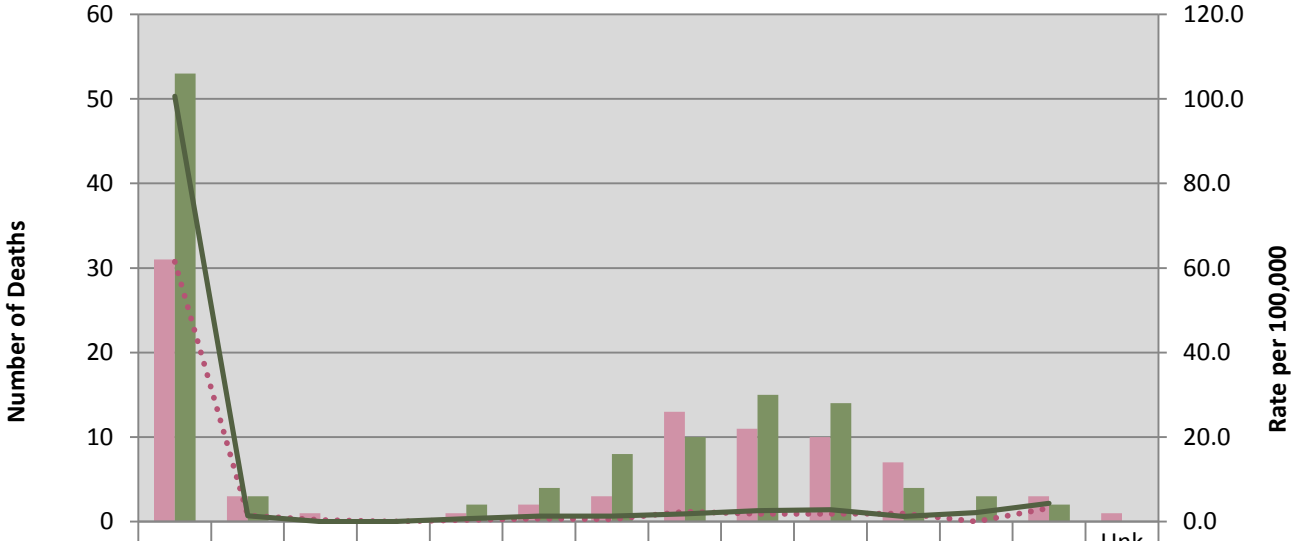
- Over thirty-nine percent of the cases assigned an undetermined manner had a determined cause of death
- Over forty-one percent of deaths with an undetermined manner were among infants less than 1 year of age

Figure 2.29 Number and Rate of Undetermined Deaths by Year of Death, 1999-2014



*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 Number and Rate of Undetermined Deaths by Age Group and Gender, 2014



	<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
Female	31	3	1	0	1	2	3	13	11	10	7	0	3	1
Male	53	3	0	0	2	4	8	10	15	14	4	3	2	0
Female Rate	61.5	1.5	0.4	0.0	0.4	0.7	0.5	2.4	1.8	1.8	1.9	0.0	3.2	*
Male Rate	100.6	1.4	0.0	0.0	0.7	1.3	1.3	1.9	2.6	2.8	1.3	2.1	4.3	*

Age Group (years)

*No rate can be calculated

Figure 2.31 Percentage of Undetermined Deaths by Race/Ethnicity, 2014

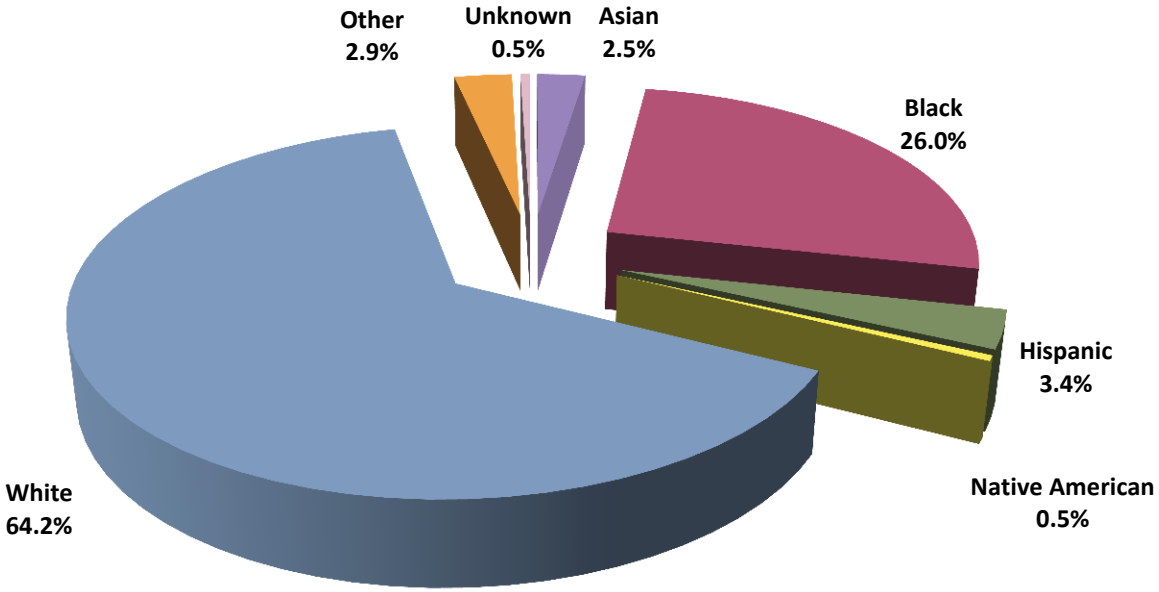


Table 2.18 Number of Undetermined Deaths by Cause of Death, 2014

Undetermined Manner of Death with Cause of Death Determined	Autopsied	Total Cases
Asphyxia		
Drowned	8	**8**
Suffocated/Smothered	4	**4**
Drug Use		
Ingested and/or injected illicit, prescription, and/or OTC medication	29	**43**
Exposure		
Exposed to cold	1	**1**
Fire		
Thermal burns and/or inhalation of combustion products	7	**7**
Jump/Fall		
Jumped/Fell from height	1	**2**
Motor Vehicle		
Dump truck	0	**1**
Pickup truck	1	**1**
Train	0	**1**
Unknown	1	**1**
Traumatic Injury		
Gunshot wound		
Handgun	3	**3**
Rifle	1	**1**
Sharp force injury	1	**1**
Other traumatic causes	6	**6**
Subtotal (Undetermined Manner with Determined Cause of Death)	**63**	**80**
Undetermined Manner of Death and Undetermined Cause of Death		
Skeletal/Mummified remains	9	**9**
Sudden Unexpected Infant Death (SUID)	48	**48**
Undetermined after autopsy and/or toxicology	65	**67**
Subtotal (Undetermined Manner and Undetermined Cause of Death)	**122**	**124**
TOTAL UNDETERMINED DEATHS	**185**	**204**

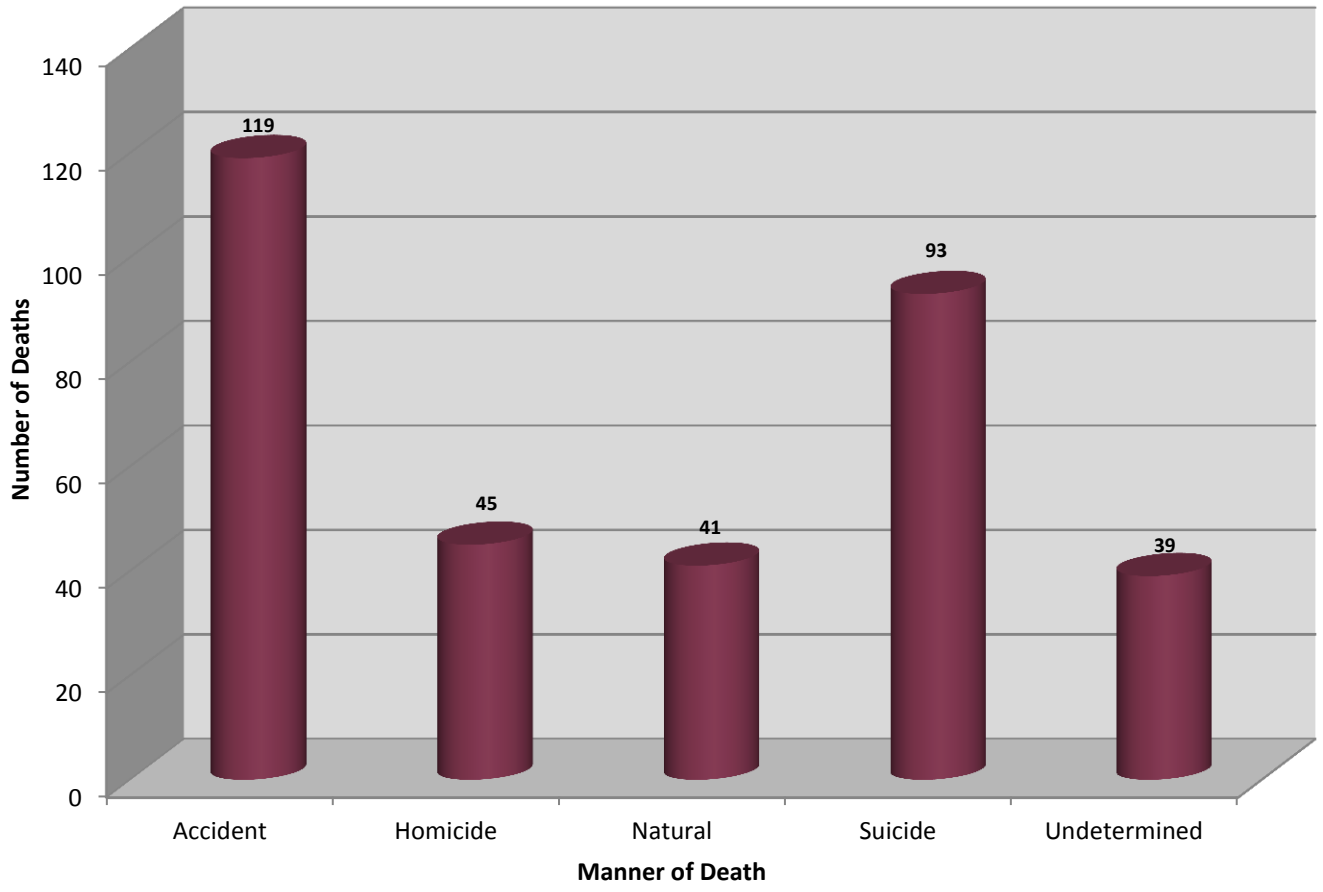
SECTION 3: DEATHS OF CHILDREN (N=337)

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

The OCME investigated 337 deaths of children, representing 5.5% of all OCME deaths in 2014.

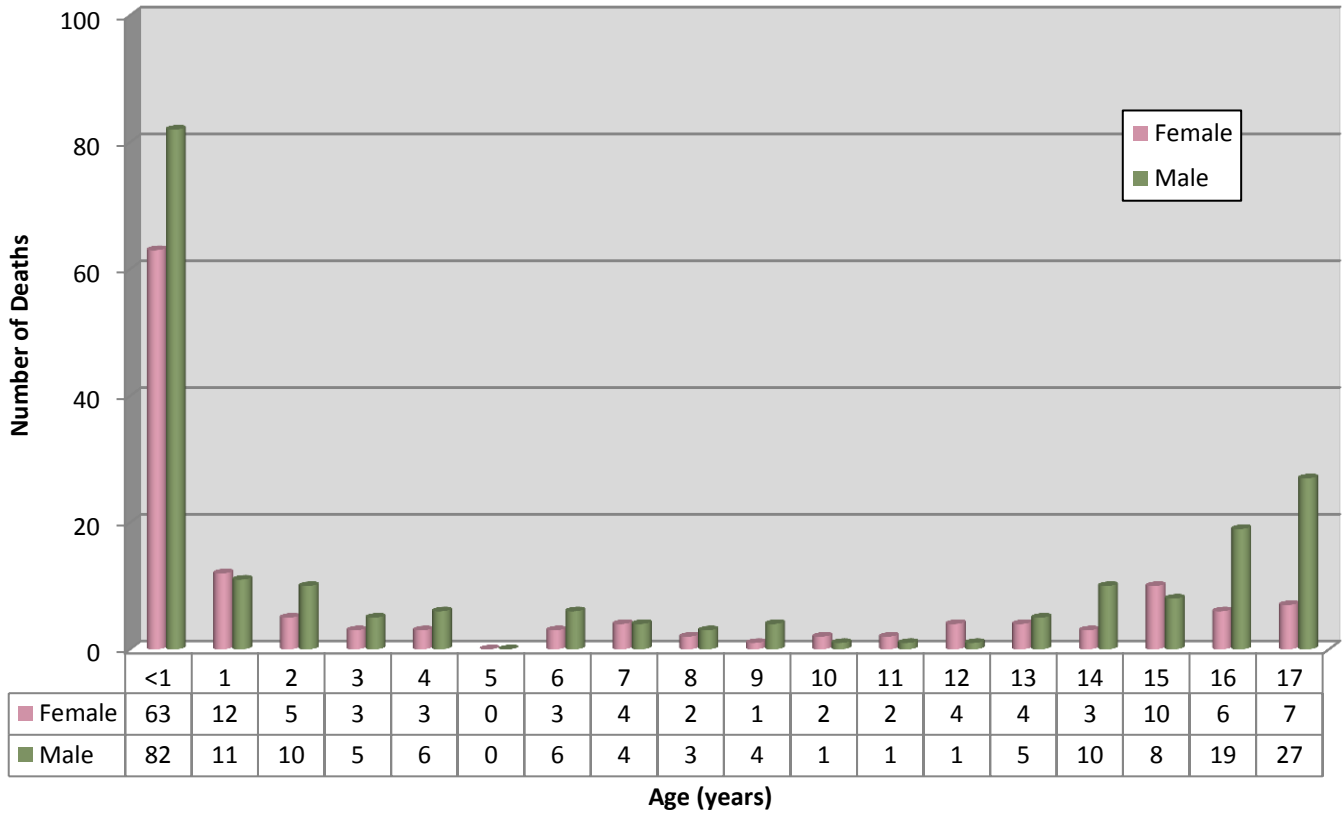
- Males represented 60.2% of all child cases
- Infants under one year of age had the largest percentage of cases (43.0%)
- The leading causes of death were sudden unexpected infant death (SUID) cases (15.1%), followed by gunshot wounds (11.9%) and blunt force injuries to the head and/or neck (11.3%)

Figure 3.1 Number of Child Deaths by Manner, 2014



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

Figure 3.2 Number of Child Deaths by Age and Gender, 2014



	<1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Female	63	12	5	3	3	0	3	4	2	1	2	2	4	4	3	10	6	7
Male	82	11	10	5	6	0	6	4	3	4	1	1	1	5	10	8	19	27

Figure 3.3 Percentage of Child Deaths by Race/Ethnicity, 2014

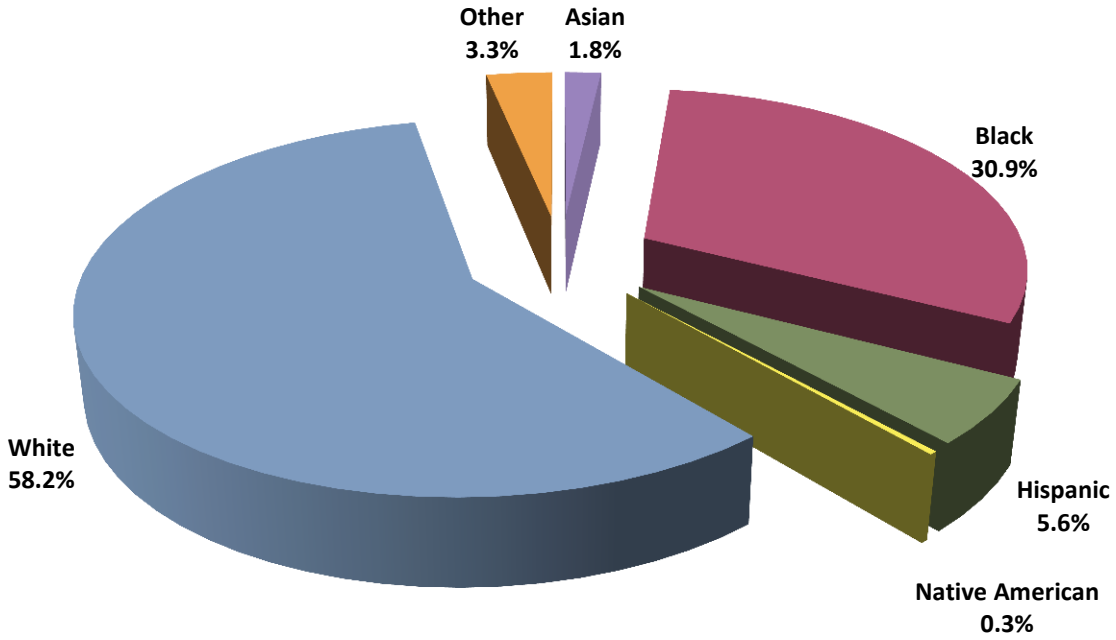
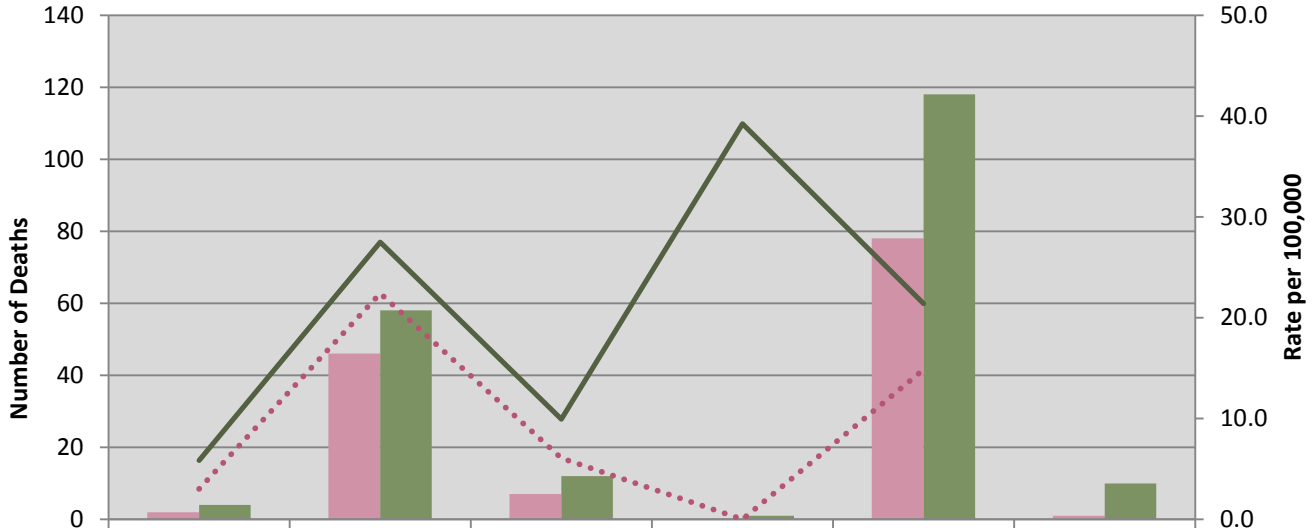


Figure 3.4 Number and Rate of Child Deaths by Gender and Race/Ethnicity, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	2	46	7	0	78	1
Male	4	58	12	1	118	10
Female Rate	3.0	22.4	6.1	0.0	14.9	*
Male Rate	5.8	27.5	9.9	39.2	21.4	*

*No rate can be calculated
** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Figure 3.5 Number of Child Deaths by Manner and Race/Ethnicity, 2014

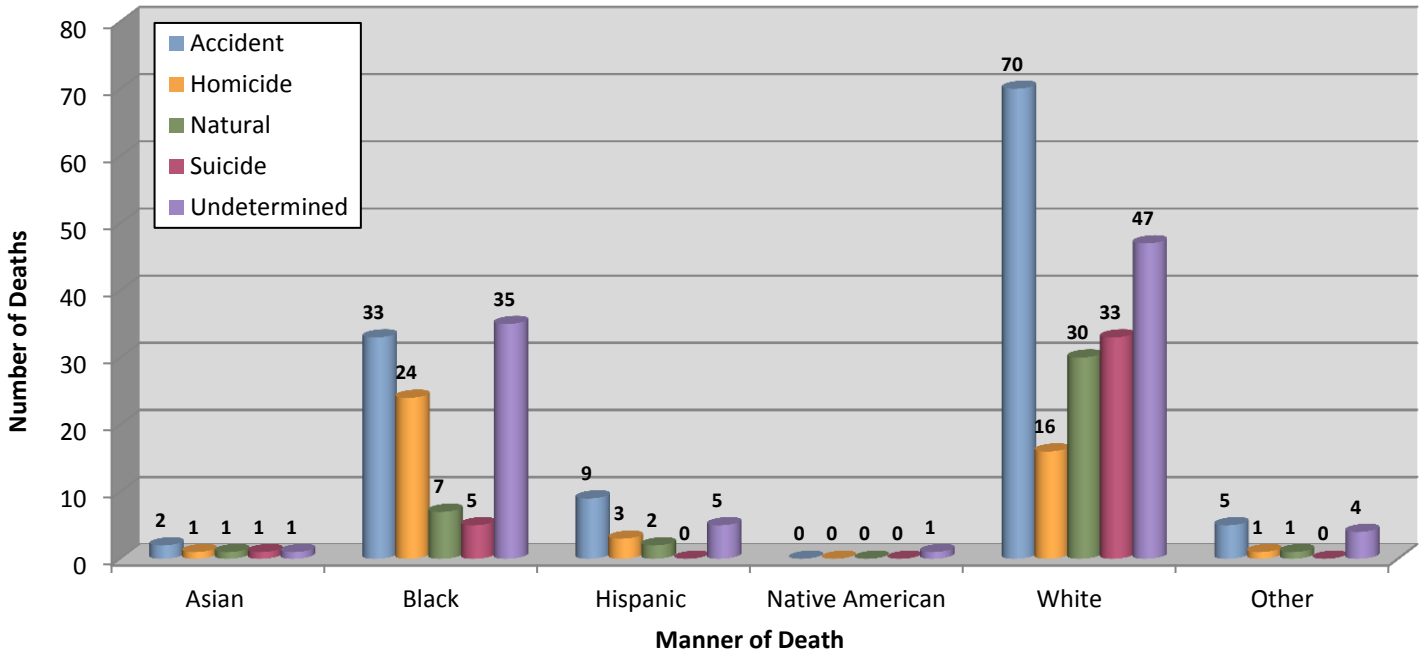


Table 3.1 Number of Child Deaths by Cause of Death, 2014

NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Cardiac arrhythmia not otherwise specified	1	**1**
Congenital defect	1	**2**
Other cardiac disease/disorder	4	**4**
Central Nervous System Diseases/Disorders		
Vascular Disease	1	**1**
Seizure disorder	1	**1**
Other CNS disease/disorder	1	**1**
Gastrointestinal Diseases/Disorders		
Other GI disease/disorder	4	**4**
Genitourinal Diseases/Disorders		
Renal disease	1	**1**
Other genitourinal disease/disorder	1	**1**
Other Natural Disease/Disorder		
Other natural disease/disorder	1	**1**
Perinatal and Pediatric Diseases/Disorders		
Fetal complications	1	**1**
Other perinatal or pediatric disorder	3	**4**
Sudden infant death syndrome (SIDS)	3	**3**
Pulmonary Diseases/Disorders		
Asthma	4	**4**
Emboli	1	**1**
Other pulmonary diseases/disorders	2	**2**
Pneumonia	5	**5**
Systemic Diseases/Disorders		
Diabetes	0	**1**
Obesity	1	**1**
Other infectious disease	3	**3**
Other systemic diseases/disorders	2	**2**
Sepsis	1	**1**
Subtotal of Natural Child Deaths	**42**	**45**
UNNATURAL CHILD DEATHS	**Autopsied**	**Total Cases**
Asphyxia		
Choked (aspiration of food or foreign object)	2	**4**
Drowned	10	**16**

Hanged	13	**20**
Mechanical/Positional asphyxia	8	**10**
Strangled/Neck compression	4	**5**
Suffocated/Smothered	26	**26**
Other asphyxia	1	**1**
Blunt Force Injuries		
Abdomen	1	**2**
Head/Neck	18	**38**
Multiple	8	**19**
Torso	1	**4**
Drug Use		
Prescription drug poisoning	6	**7**
Exposure		
Exposed to heat	1	**1**
Fire Injuries		
Thermal burns and/or inhalation of combustion products	9	**13**
Gunshot Wound		
Handgun	23	**23**
Multiple	1	**1**
Other	1	**1**
Rifle	4	**4**
Shotgun	9	**9**
Unspecified/Unknown	2	**2**
Sharp Force Injury		
Sharp force injuries	2	**2**
Other Unnatural Deaths		
Other	0	**1**
Subtotal of Unnatural Child Deaths	**150**	**209**
UNDETERMINED CHILD DEATHS	**Autopsied**	**Total Cases**
Undetermined After Autopsy and/or Investigation		
Skeletal/Mummified remains	1	**1**
Sudden unexpected infant death (SUID)	51	**51**
Undetermined after autopsy and/or toxicology	31	**31**
Subtotal of Undetermined Child Deaths	**83**	**83**
TOTAL CHILD DEATHS	**275**	**337**

ACCIDENTAL CHILD DEATHS (N=119)

The number of accidental child deaths increased by 33.7% between 2013 and 2014.

- The largest number of accidental deaths occurred among males (60.5%), whites (58.8%), and those <1 year of age (28.6%)
- Black males had the highest rate of accidental death (8.1 deaths per 100,000 persons aged 0-17 years), followed very closely by white males and black females (both with 7.8 deaths per 100,000 persons aged 0-17 years)
- Motor vehicle accidents were the leading method of death (34.5%), followed by accidental suffocation/smothering (16.8%)

Figure 3.6 Number and Rate of Accidental Child Deaths by Year, 2003-2014

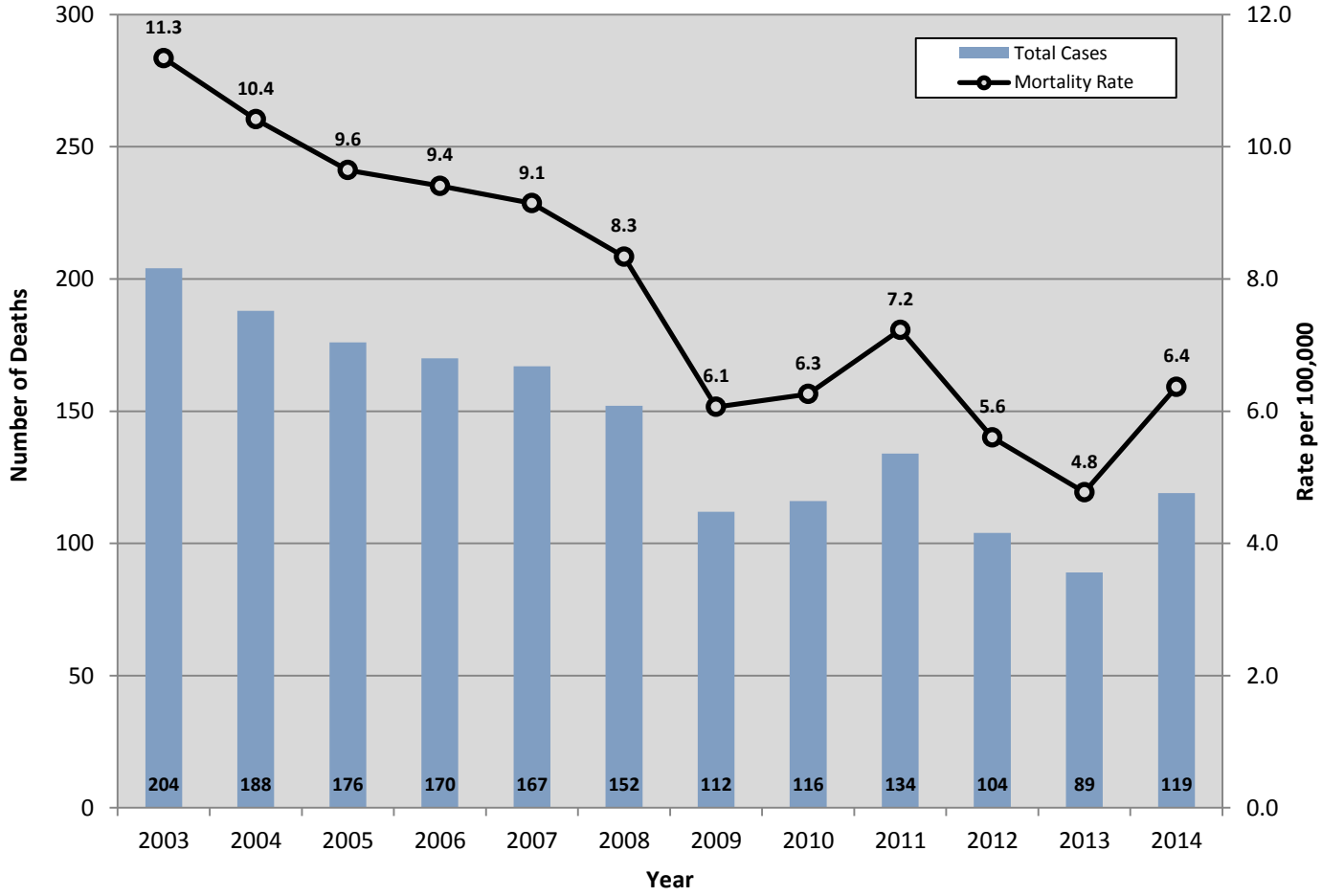
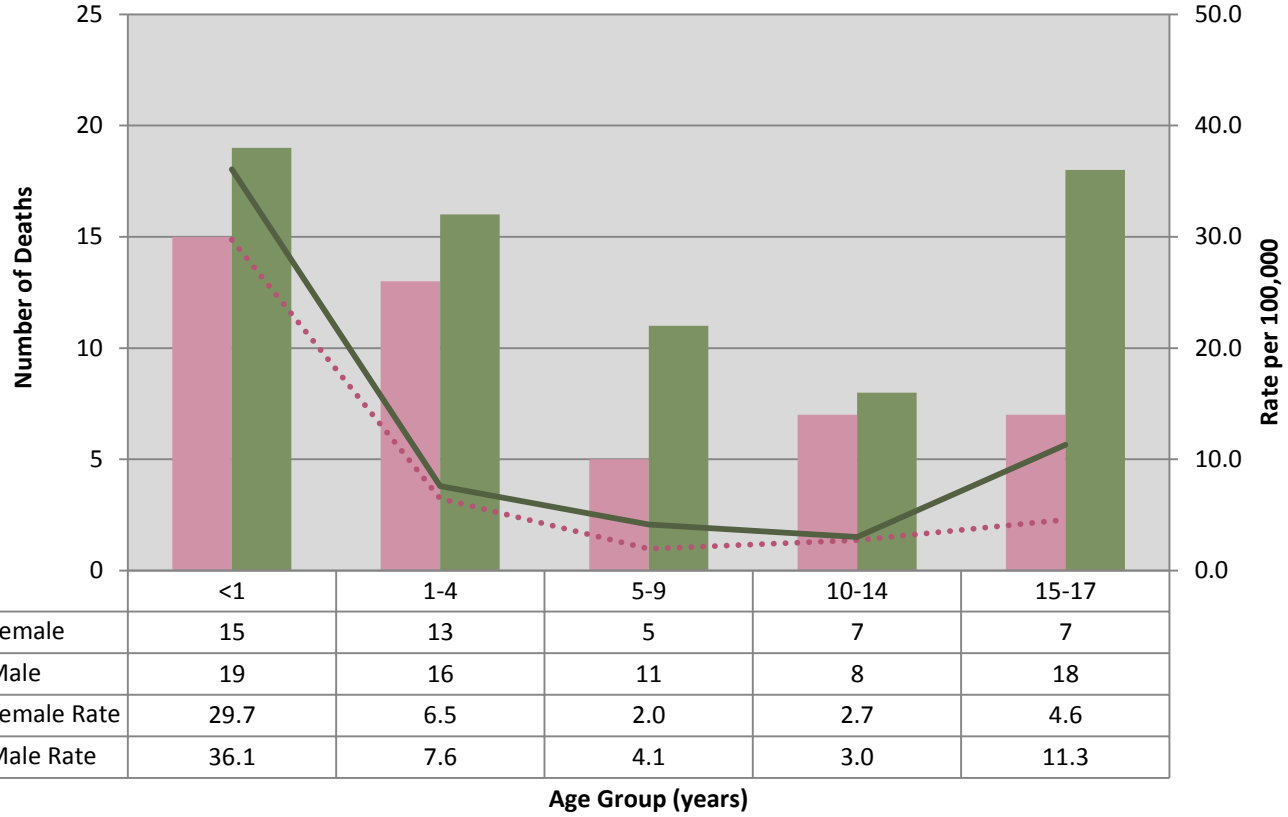


Figure 3.7 Number and Rate of Accidental Child Deaths by Age Group and Gender, 2014



	<1	1-4	5-9	10-14	15-17
Female	15	13	5	7	7
Male	19	16	11	8	18
Female Rate	29.7	6.5	2.0	2.7	4.6
Male Rate	36.1	7.6	4.1	3.0	11.3

Figure 3.8 Percentage of Accidental Child Deaths by Race/Ethnicity, 2014

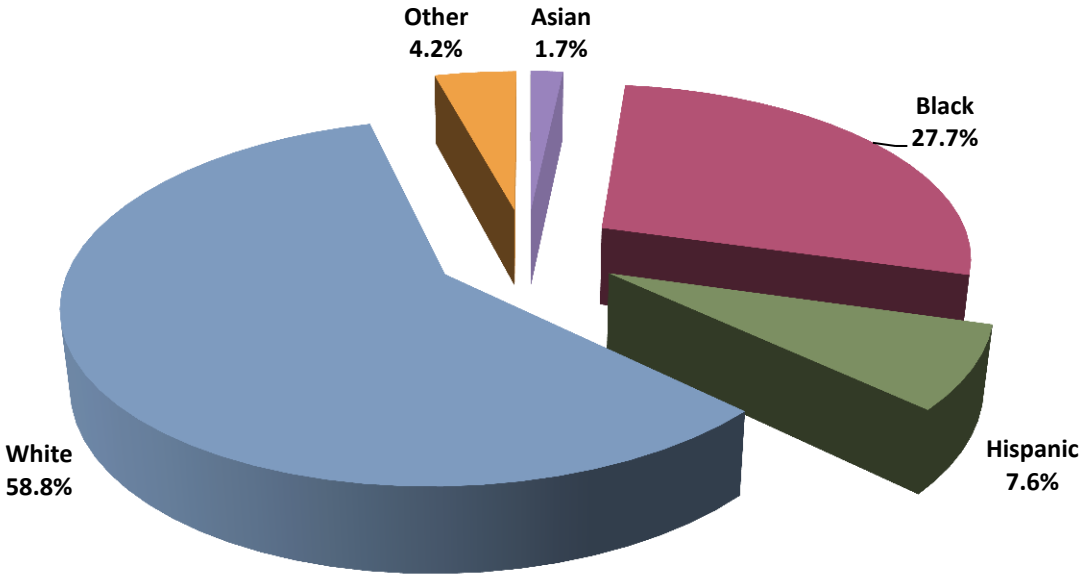
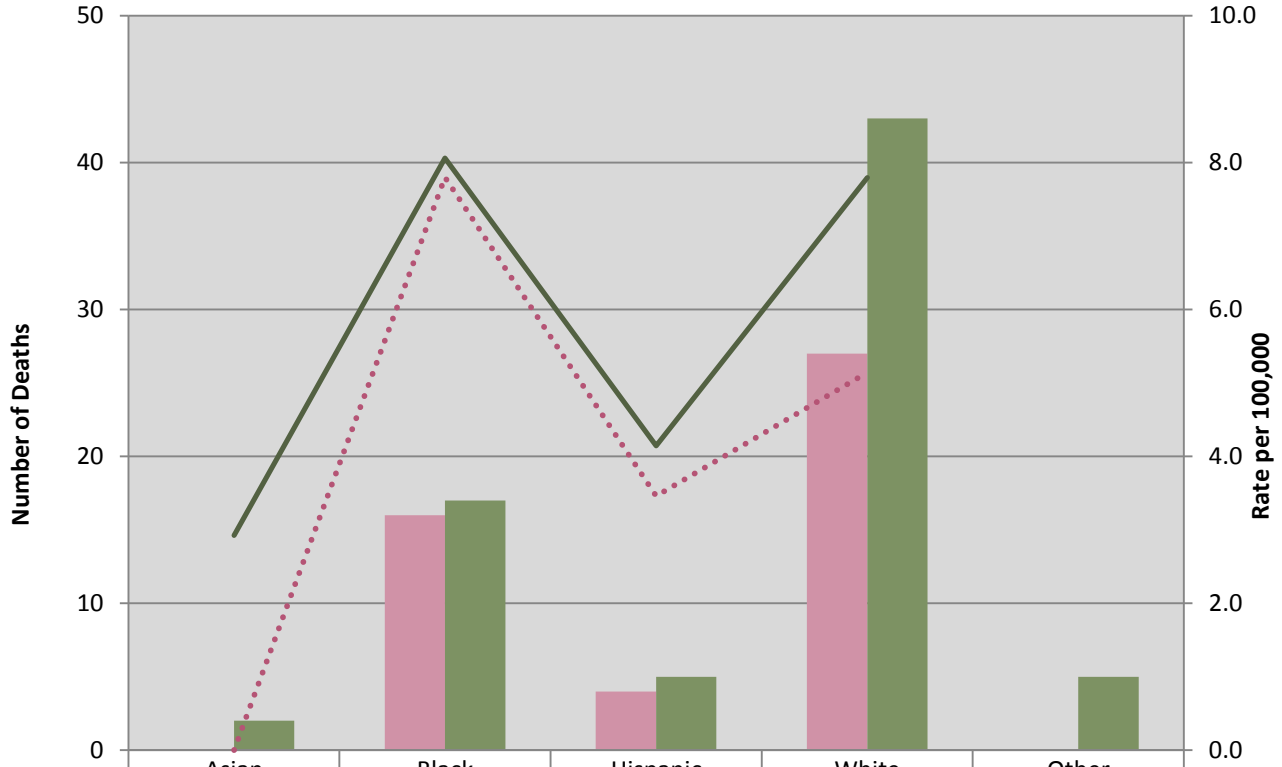


Figure 3.9 Number and Rate of Accidental Child Deaths by Gender and Race/Ethnicity, 2014



	Asian	Black	Hispanic	White	Other
Female	0	16	4	27	0
Male	2	17	5	43	5
Female Rate	0.0	7.8	3.5	5.1	*
Male Rate	2.9	8.1	4.1	7.8	*

* No rate can be calculated

Figure 3.10 Number of Accidental Child Deaths by Month of Death, 2014

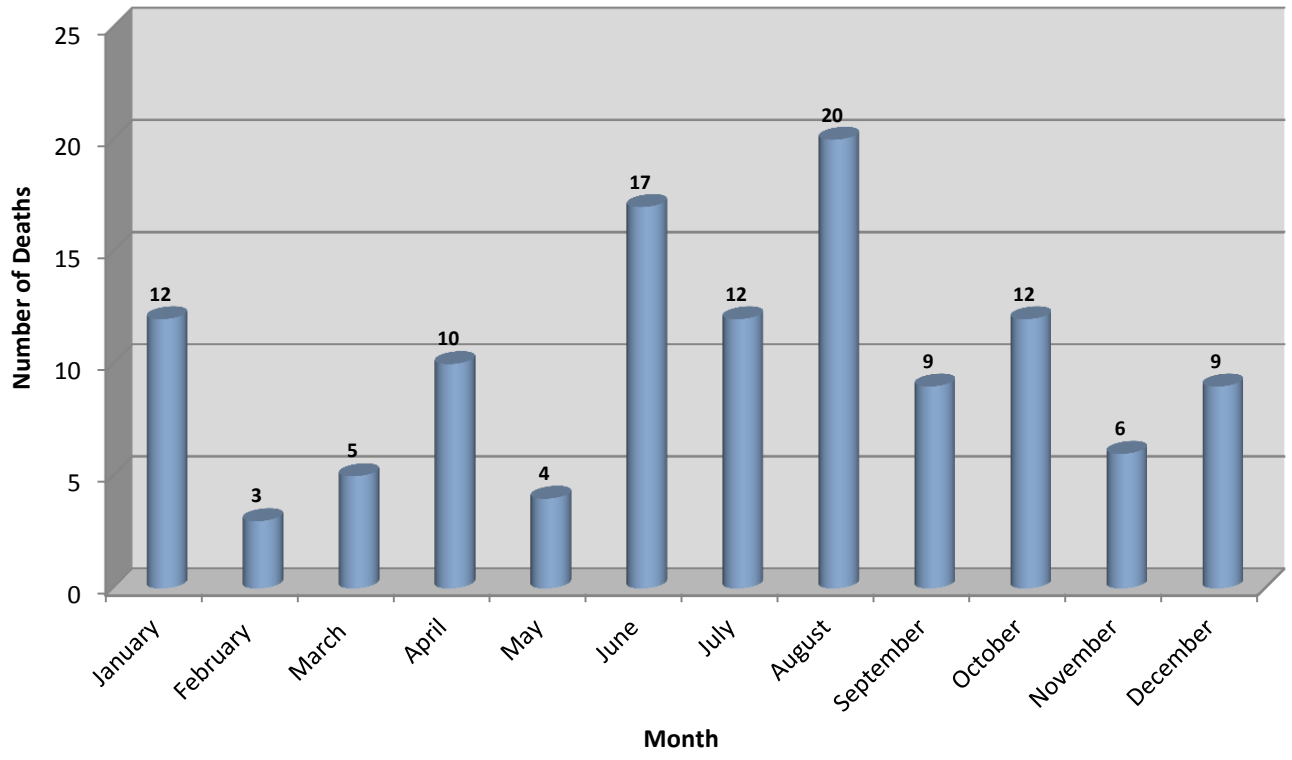


Figure 3.11 Number of Accidental Child Deaths by Day of Week, 2014

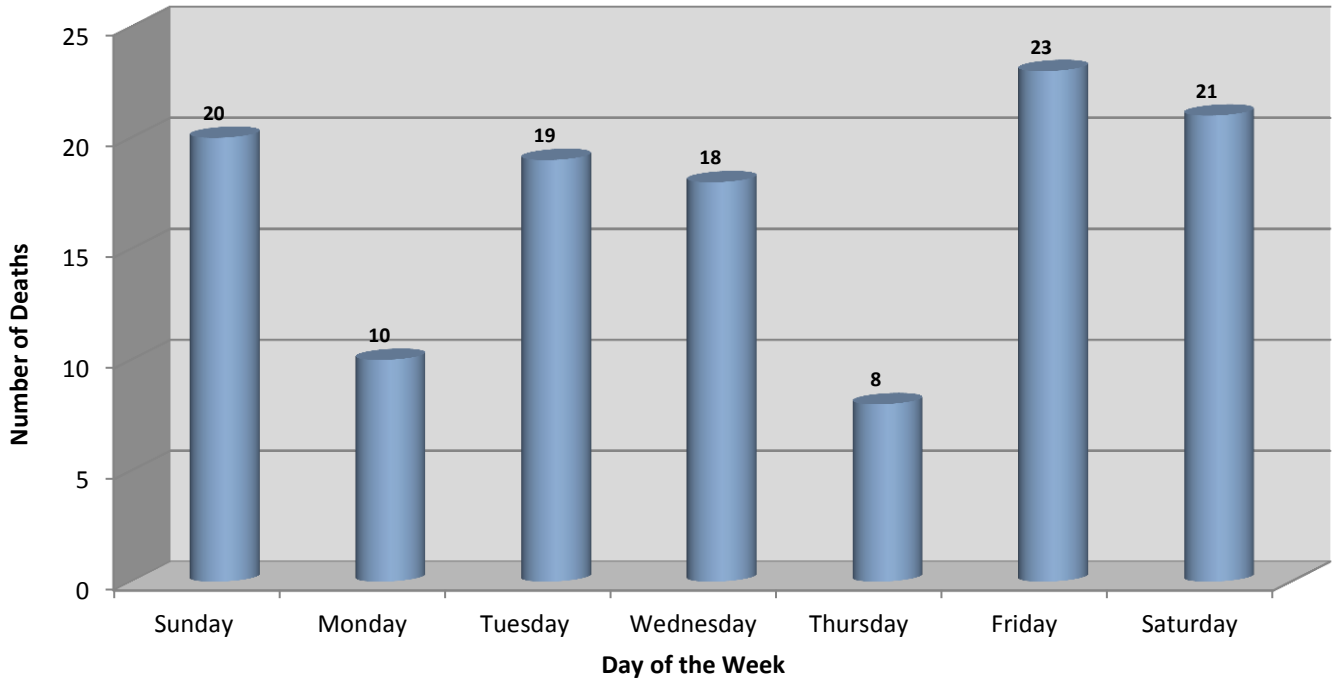


Table 3.2 Number of Accidental Child Deaths by Cause and Method of Death, 2014

Method of Death	Autopsied	Total Cases
Asphyxia		
Choked on food/foreign object	2	**4**
Drowned	9	**15**
Hanged	1	**1**
Mechanical/Positional asphyxia	8	**10**
Strangled/Neck compression	3	**4**
Suffocated/Smothered	20	**20**
Other asphyxia	1	**1**
Drug Use		
Ingested and/or injected illicit, prescription, and/or other drug	1	**2**
Electrical		
Contacted electrical current		
Environmental Exposure		
Exposed to heat	1	**1**
Fall		
Fell from any height	0	**1**
Fire		
Thermal burns and/or inhalation of combustion products	7	**11**
Traumatic Injury		
Accidental discharge of a firearm		
Other	1	**1**
Falling object	0	**3**
Sharp force injury	1	**1**
Other traumatic injury	2	**3**
Vehicular		
Bicycle	0	**2**
Bus	1	**1**
Car	5	**19**
Farm equipment	0	**1**
Mo-ped	0	**1**
Motorcycle	0	**1**
Pickup truck	0	**3**

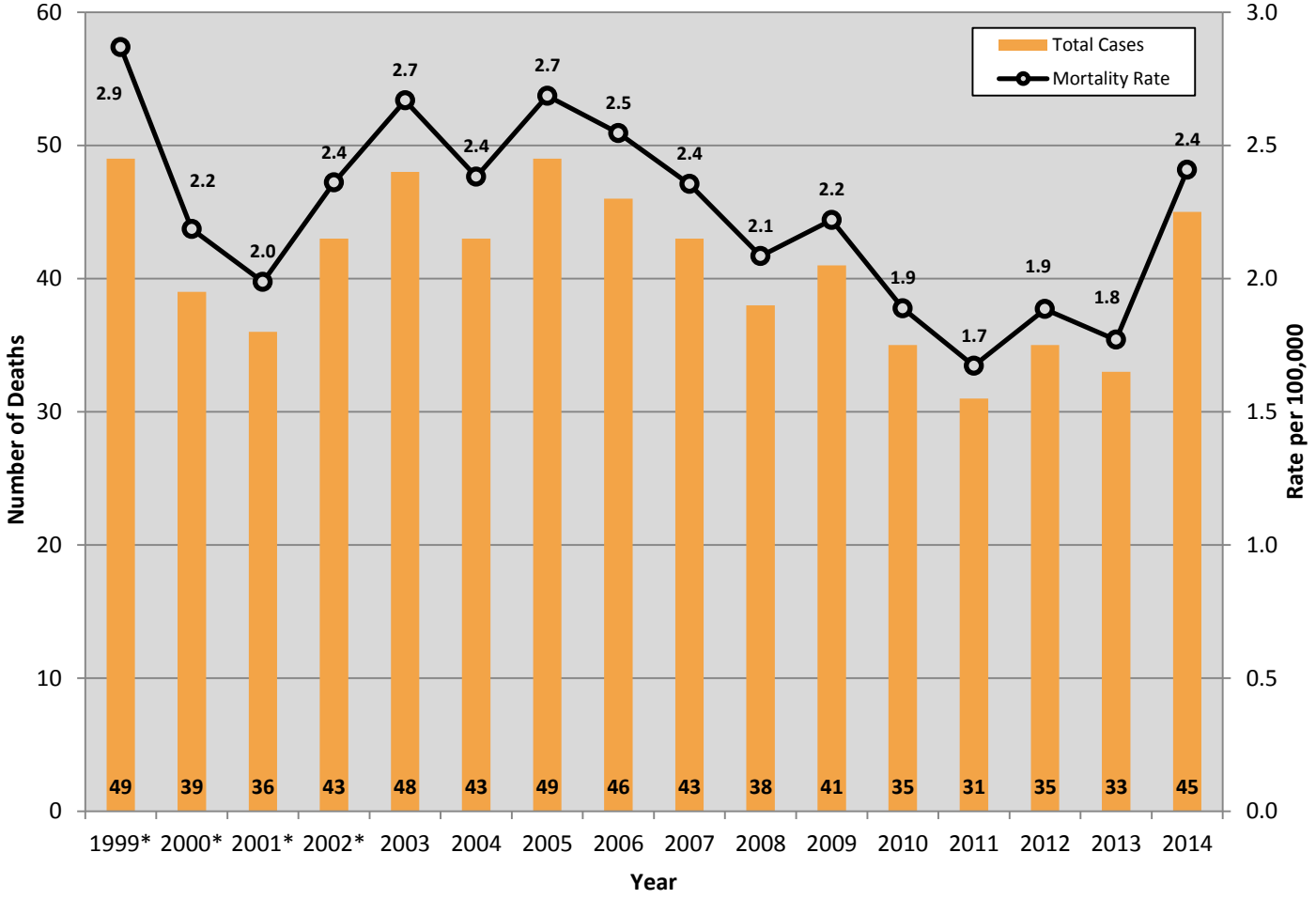
Method of Death	Autopsied	Total Cases
Skateboard	0	**1**
Sport utility vehicle	1	**5**
Train	1	**1**
Truck other	0	**1**
Van	2	**3**
Unknown	0	**2**
TOTAL ACCIDENTAL CHILD DEATHS	**67**	**119**

CHILD HOMICIDE DEATHS (N=45)

The number of child homicide deaths in 2014 increased by 36.4% when compared to 2013. Homicides represented 13.4% of all child deaths.

- Homicides in children occurred most frequently among persons aged 17 years (24.4%), males (68.9%), and among blacks (53.3%).
- Black males had the highest rate of child homicides with 8.5 deaths per 100,000 persons aged 0-17 years
- Gunshot wounds were the most common method of death in child homicides in 2014 (55.6%).

Figure 3.12 Number and Rate of Child Homicide Deaths by Year, 1999-2014



*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 3.13 Number of Child Homicide Deaths by Age and Gender, 2014

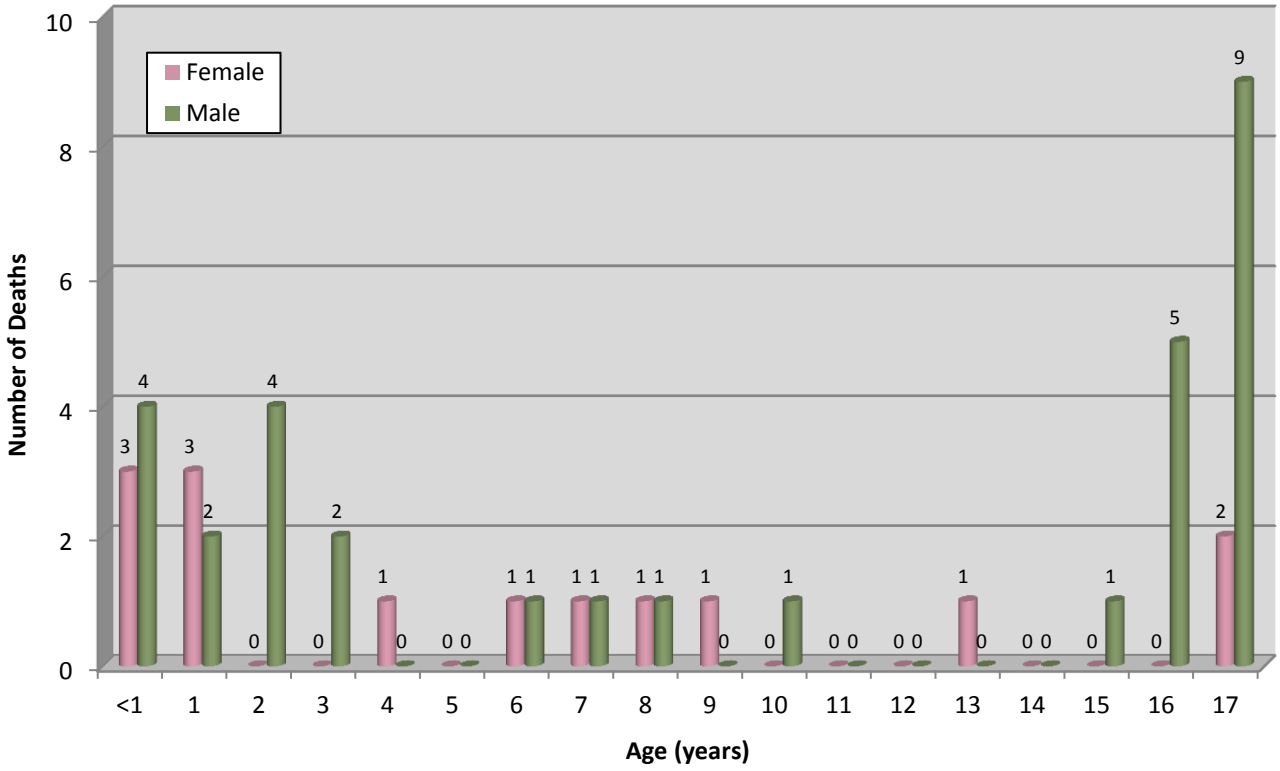


Figure 3.14 Percentage of Child Homicide Deaths by Race/Ethnicity, 2014

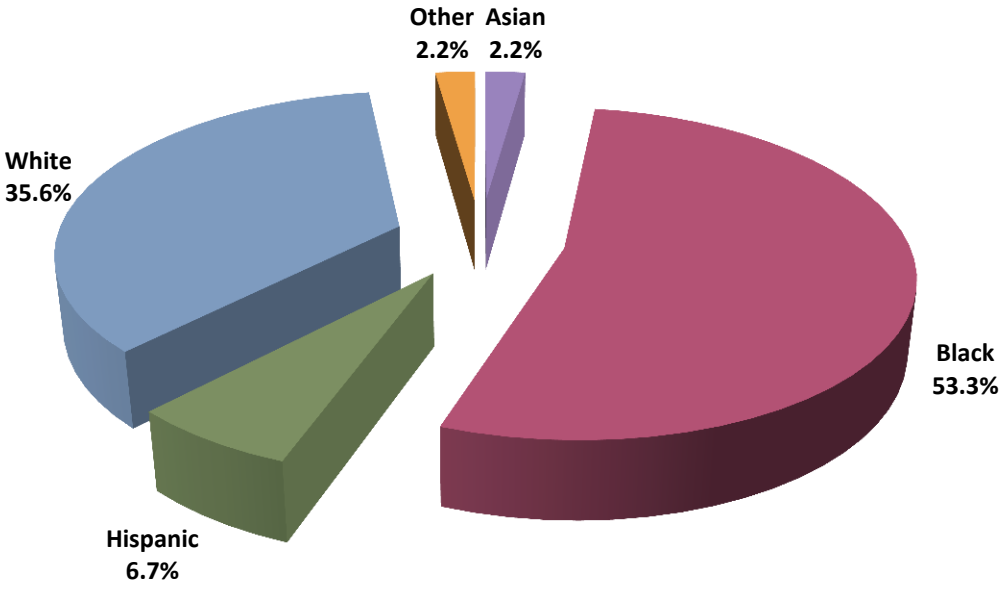
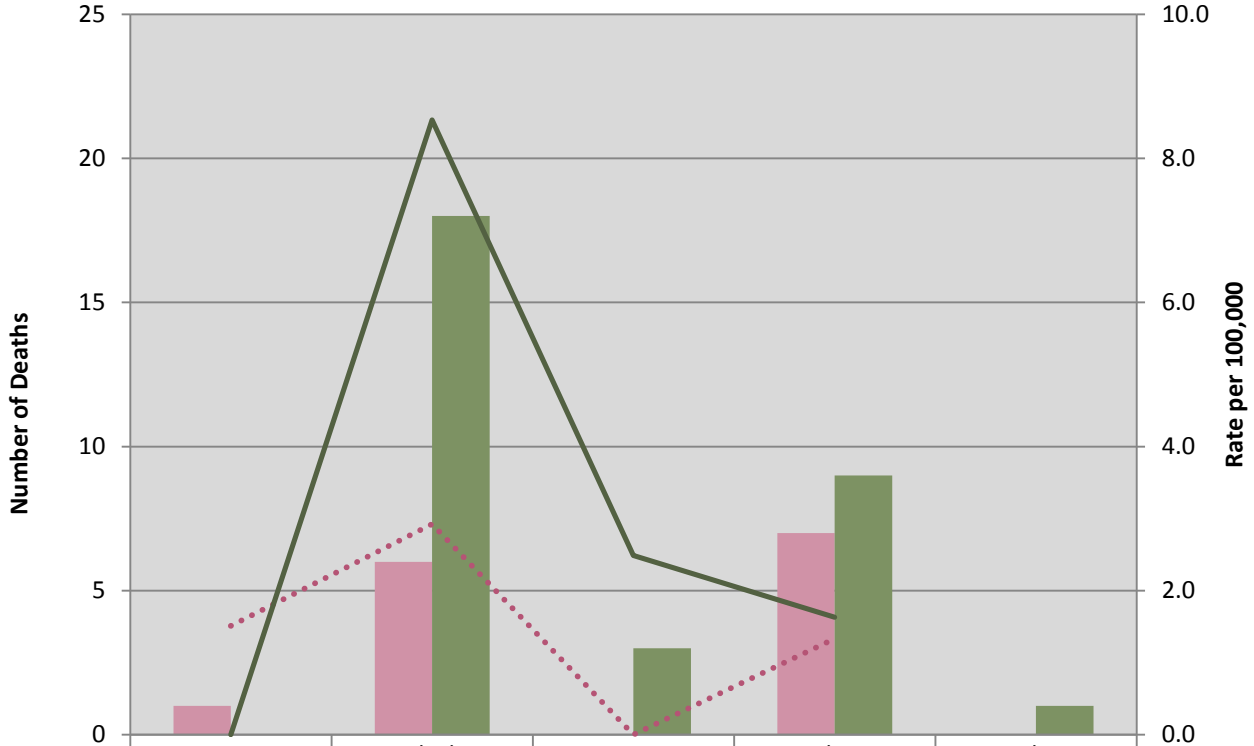


Figure 3.15 Number and Rate of Child Homicide Deaths by Gender and Race/Ethnicity, 2014



	Asian	Black	Hispanic	White	Other
Female	1	6	0	7	0
Male	0	18	3	9	1
Female Rate	1.5	2.9	0.0	1.3	*
Male Rate	0.0	8.5	2.5	1.6	*

* No rate can be calculated

Figure 3.16 Number of Child Homicide Deaths by Month of Death, 2014

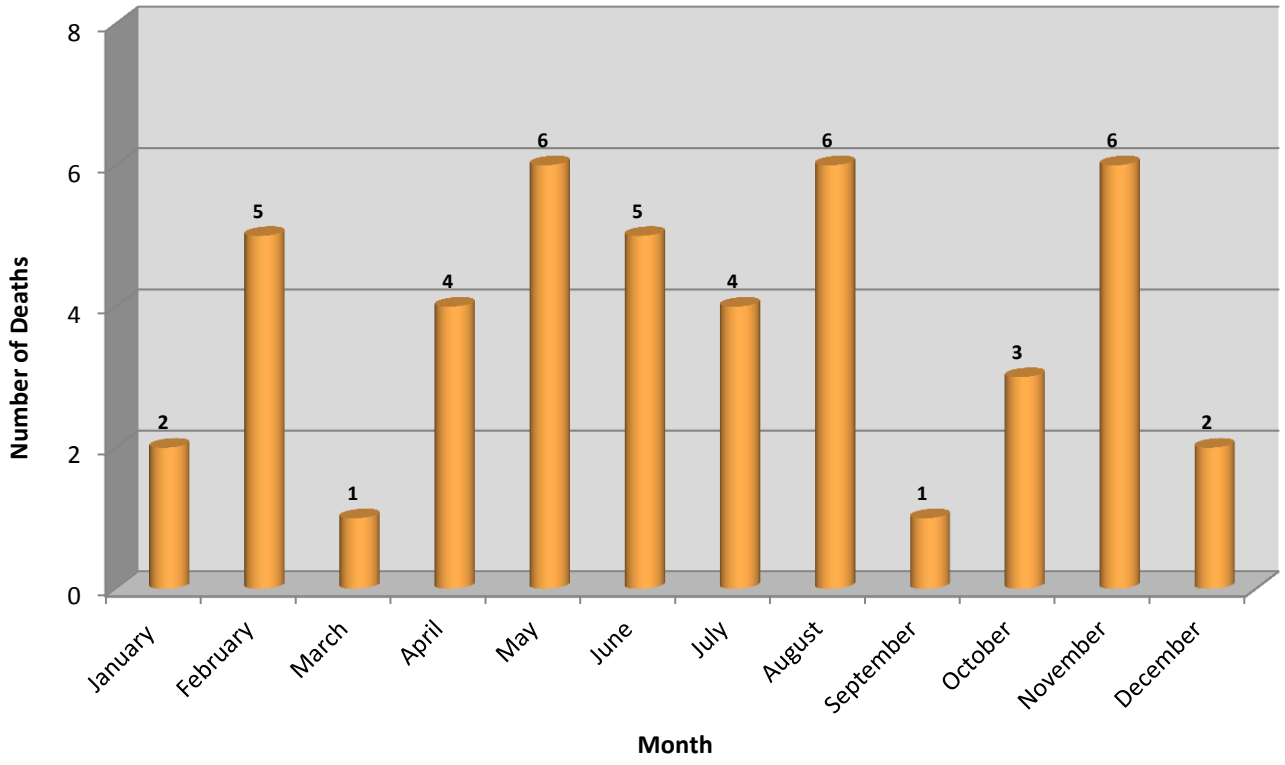


Figure 3.17 Number of Child Homicide Deaths by Day of the Week, 2014

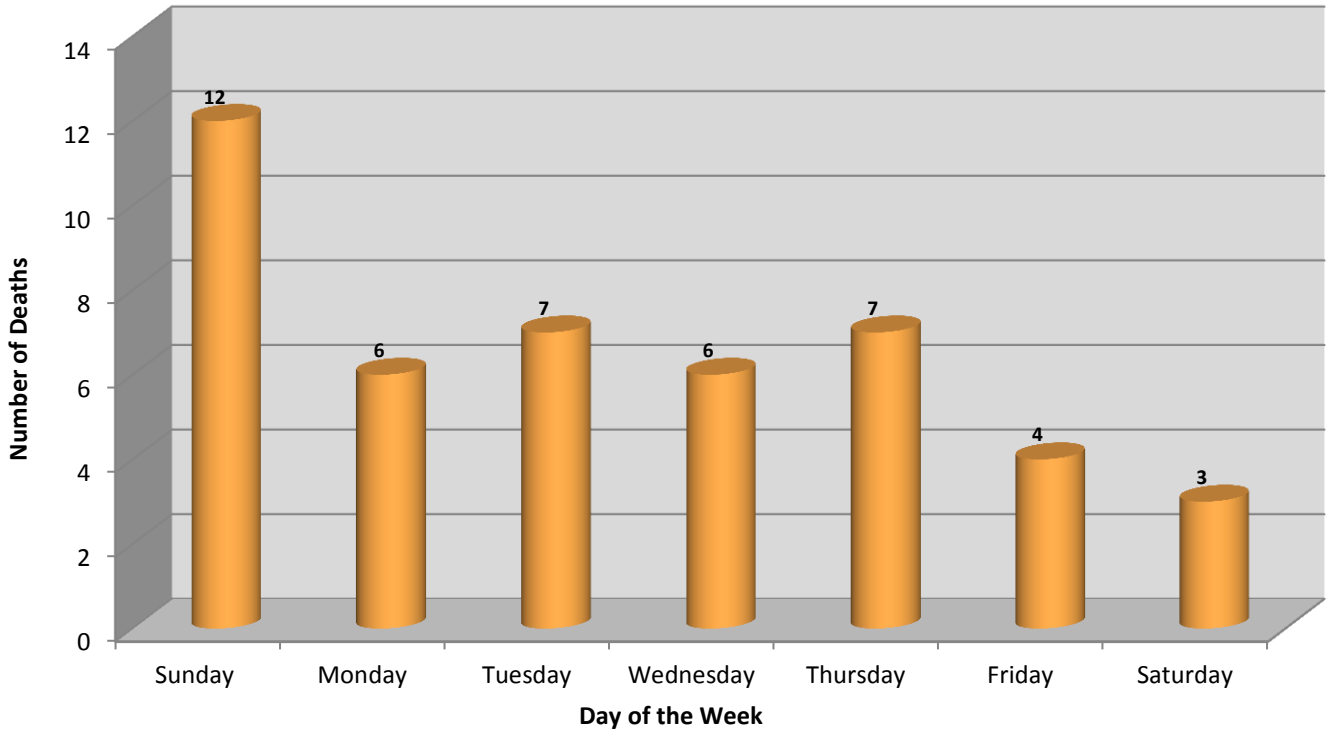


Table 3.3 Number of Child Homicide Deaths by Cause and Method of Death, 2014

Method of Death	Autopsied	Total Cases
Asphyxia		
Strangled	1	**1**
Suffocated/Smothered	2	**2**
Fire		
Thermal Burns and/or Inhalation of Combustion Products	1	**1**
Traumatic Injury		
Beaten by assailant(s)	14	**14**
Sharp force injury	1	**1**
Shot by assailant(s) with firearm		
Handgun	19	19
Multiple	1	1
Shotgun	3	3
Unspecified/Unknown	2	2
Other traumatic injury	1	1
TOTAL CHILD HOMICIDE DEATHS	**45**	**45**

NATURAL CHILD DEATHS (N=41)

Infants comprised 48.8% of all natural deaths of children that fell under the OCME's jurisdiction.

- Pulmonary diseases and disorders were the most common category of natural deaths among 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 (undetermined manner of death), sudden infant death syndrome (SIDS) cases have drastically decreased (natural manner of death)

Figure 3.18 Number of Natural Child Deaths by Age Group and Gender, 2014

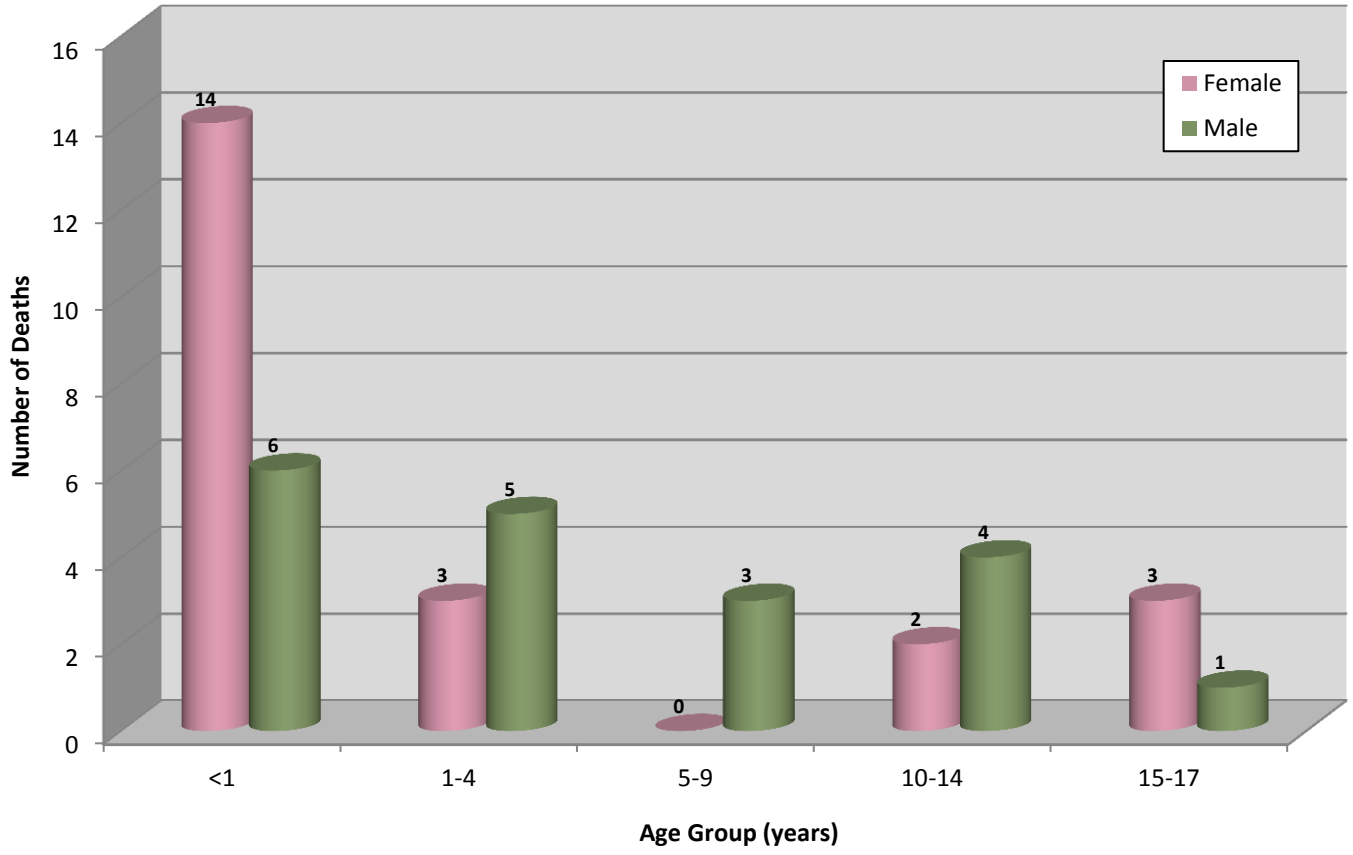


Figure 3.19 Percentage of Natural Child Deaths by Race/Ethnicity, 2014

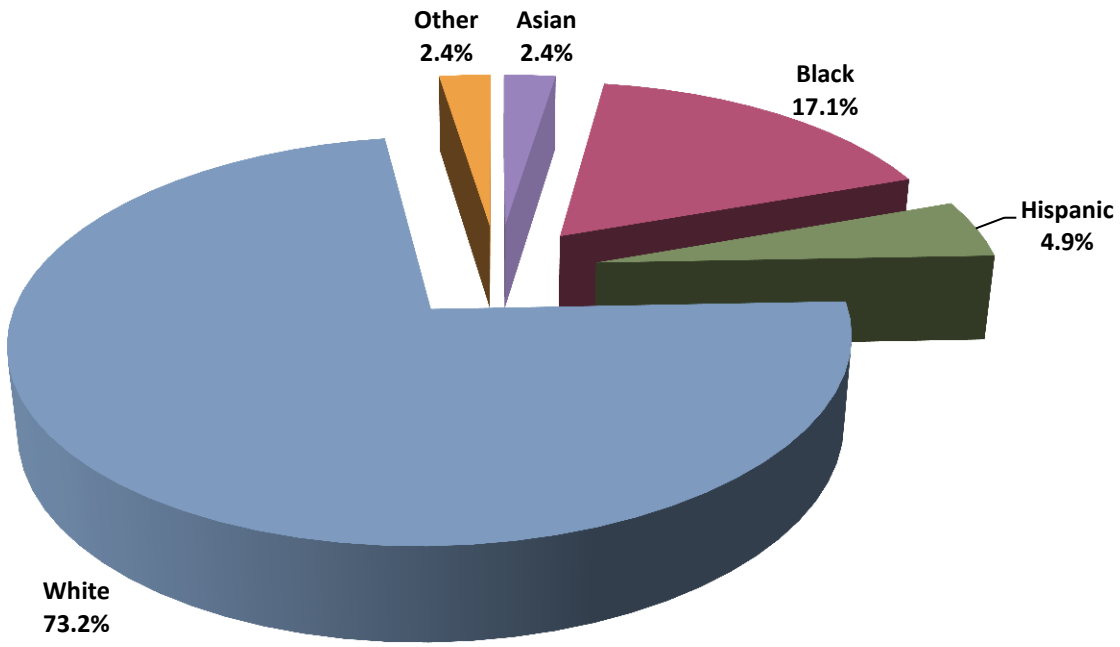


Figure 3.20 Number of OCME SIDS Cases by Year of Death, 2003-2014

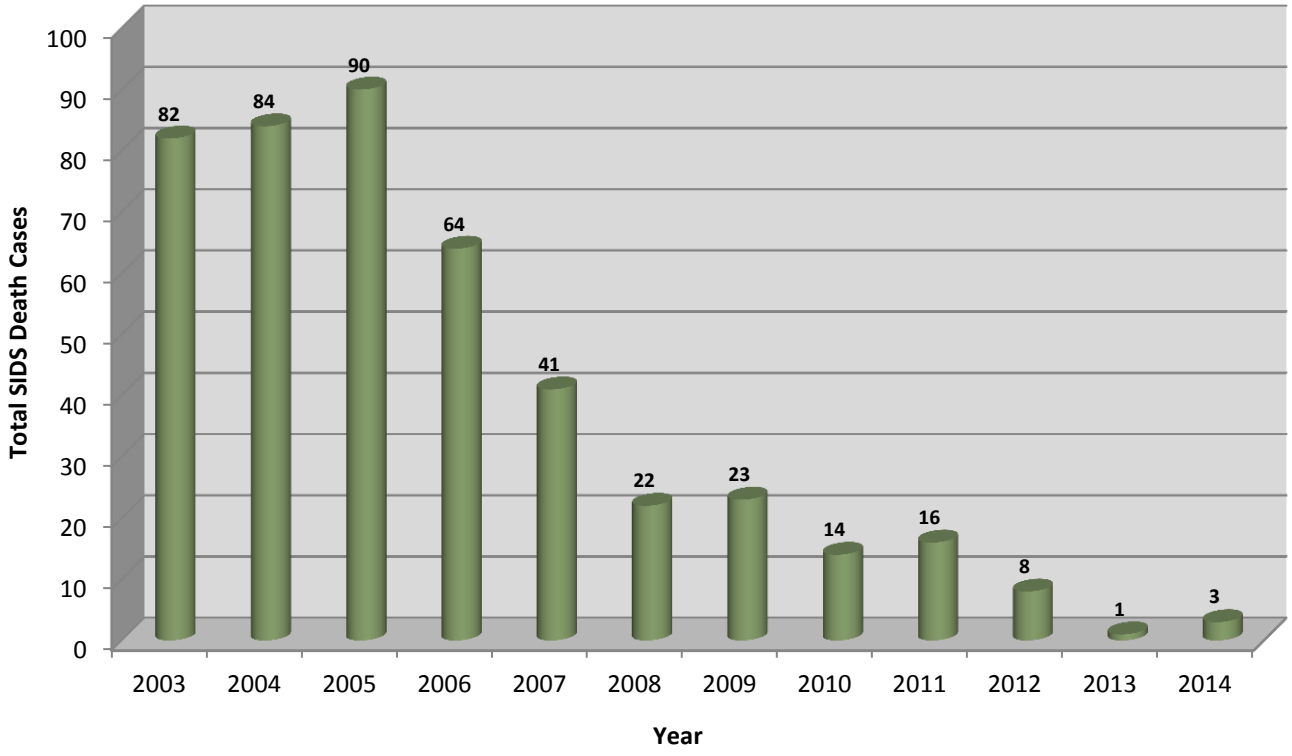


Table 3.4 Number of Natural Child Deaths by Cause and Method of Death, 2014

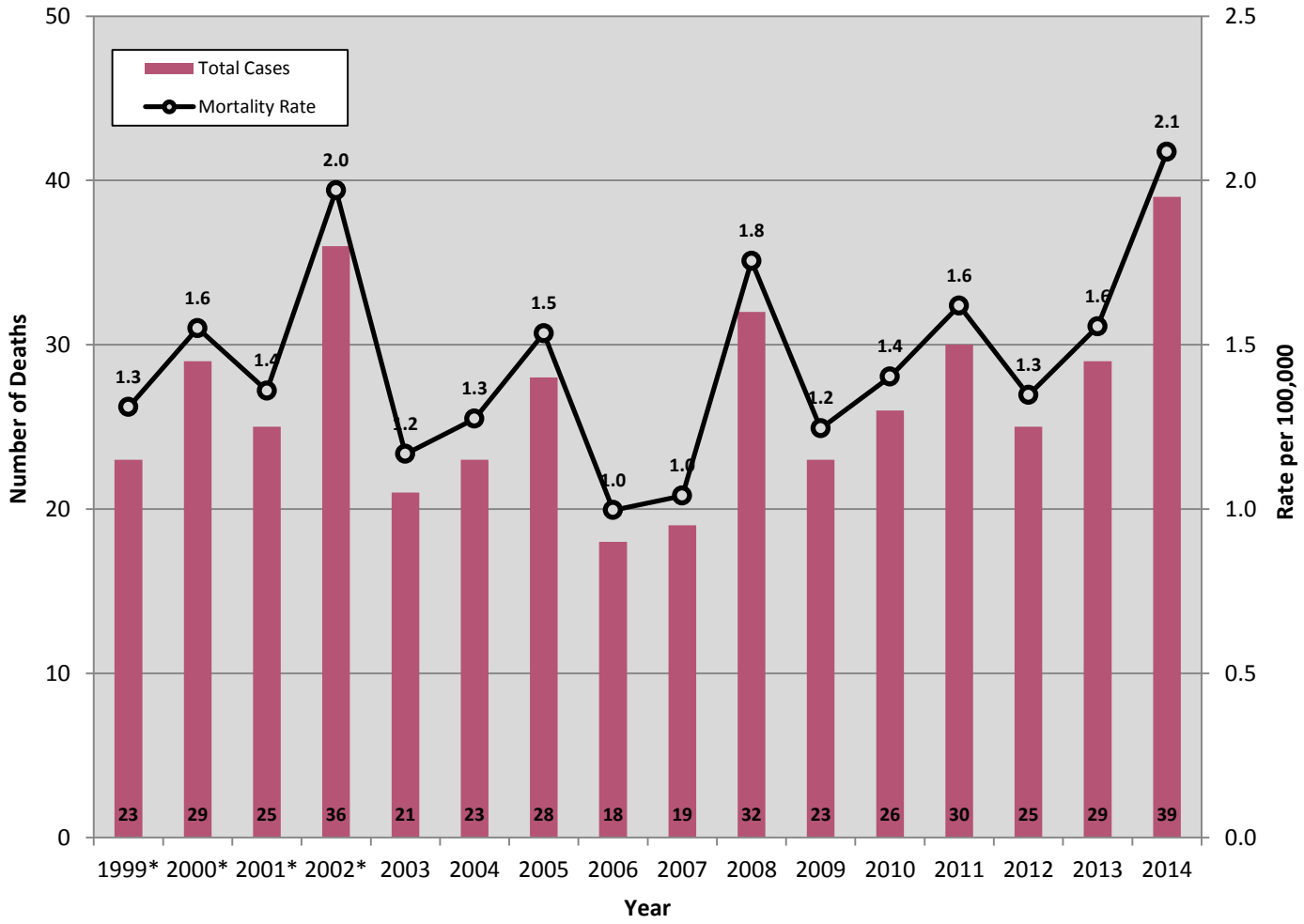
NATURAL CHILD DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Cardiac arrhythmia not otherwise specified	1	**1**
Congenital defect	1	**2**
Other cardiac disease/disorder	4	**4**
Central Nervous System Diseases/Disorders		
Seizure disorder	1	**1**
Gastrointestinal Diseases/Disorders		
Other GI disease/disorder	3	**3**
Genitourinal Diseases/Disorders		
Renal disease	1	**1**
Other genitourinal disease/disorder	1	**1**
Other Natural Disease/Disorder		
Other natural disease/disorder	2	**2**
Perinatal and Pediatric Diseases/Disorders		
Sudden Infant Death Syndrome (SIDS)	3	**3**
Other perinatal or pediatric disorder	3	**4**
Pulmonary Diseases/Disorders		
Asthma	4	**4**
Pneumonia	5	**5**
Other pulmonary diseases/disorders	2	**2**
Systemic Diseases/Disorders		
Diabetes	0	**1**
Obesity	1	**1**
Other infectious disease	3	**3**
Sepsis	1	**1**
Other systemic diseases/disorders	2	**2**
TOTAL NATURAL CHILD DEATHS	**38**	**41**

CHILD SUICIDE DEATHS (N=39)

The number of child suicide deaths in 2014 increased by 34.5% when compared to 2013.

- Child suicides are very similar to adult suicides as they occur more frequently in males (61.5%) and whites (84.6%)
- White males have the highest rate of child suicide (4.0 deaths per 100,000 persons aged 0-17 years), followed by white females and black females (2.1 and 1.9 deaths per 100,000 persons aged 0-17 years, respectively)
- The most common methods of child suicides were hangings (48.7%) and gunshot wounds (25.6%)

Figure 3.21 Number and Rate of Child Suicide Deaths by Year, 1999-2014



*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 3.22 Number of Child Suicide Deaths by Age and Gender, 2014

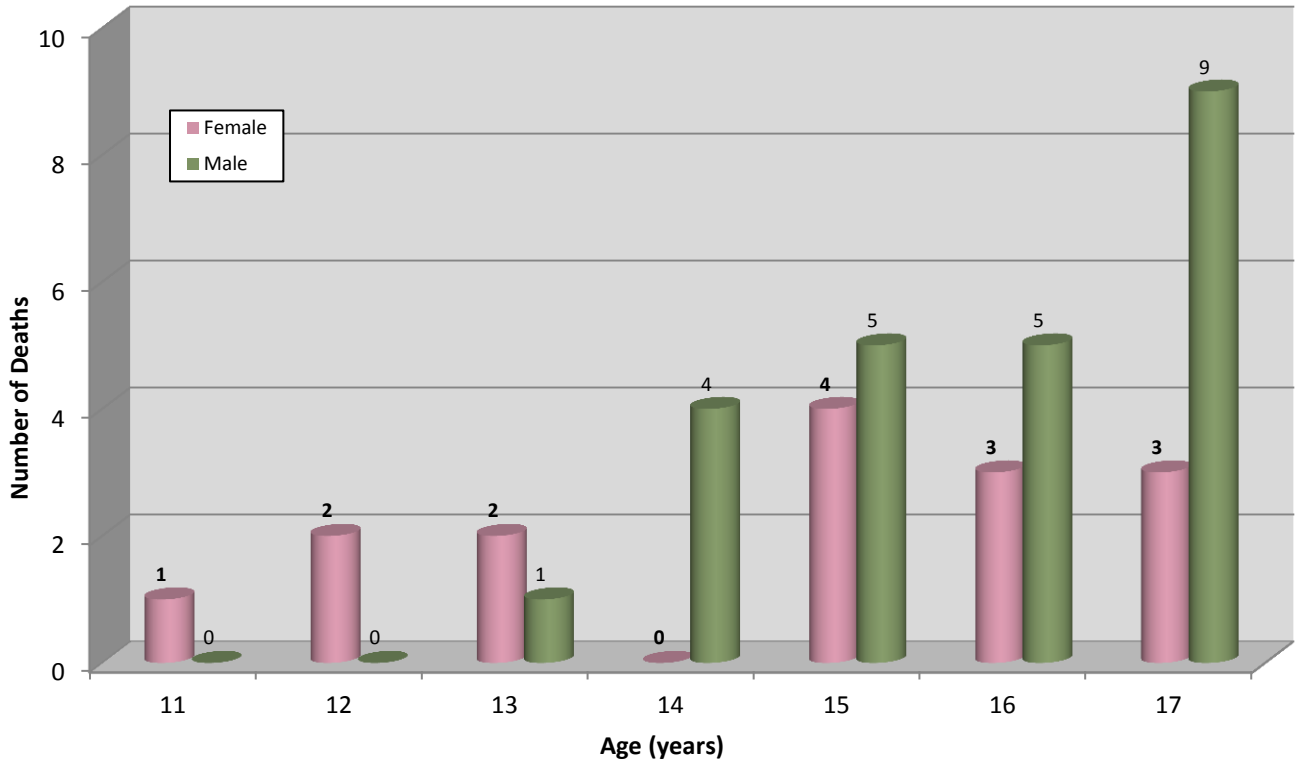


Figure 3.23 Percentage of Child Suicide Deaths by Race/Ethnicity, 2014

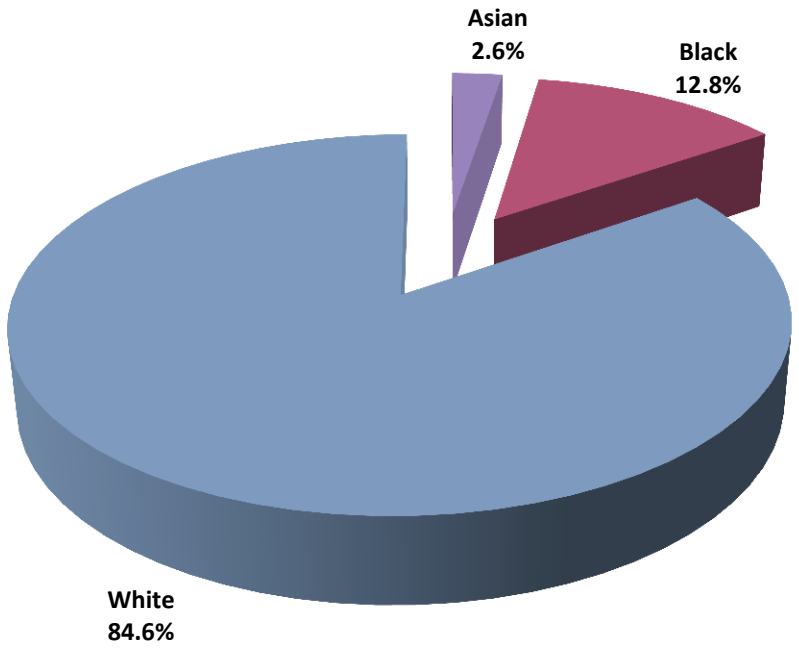
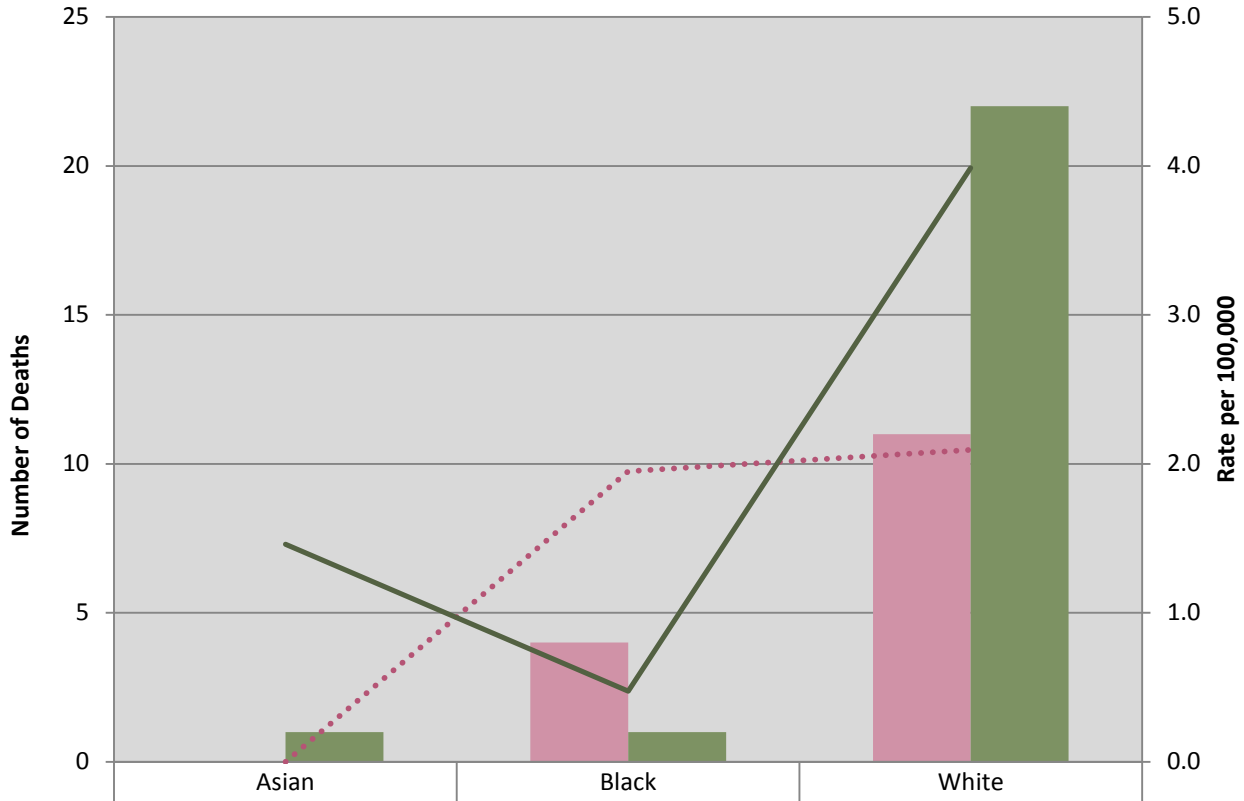


Figure 3.24 Number and Rate of Child Suicide Deaths by Gender and Race/Ethnicity, 2014



	Asian	Black	White
Female	0	4	11
Male	1	1	22
Female Rate	0.0	1.9	2.1
Male Rate	1.5	0.5	4.0

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution

Figure 3.25 Number of Child Suicide Deaths by Month, 2014

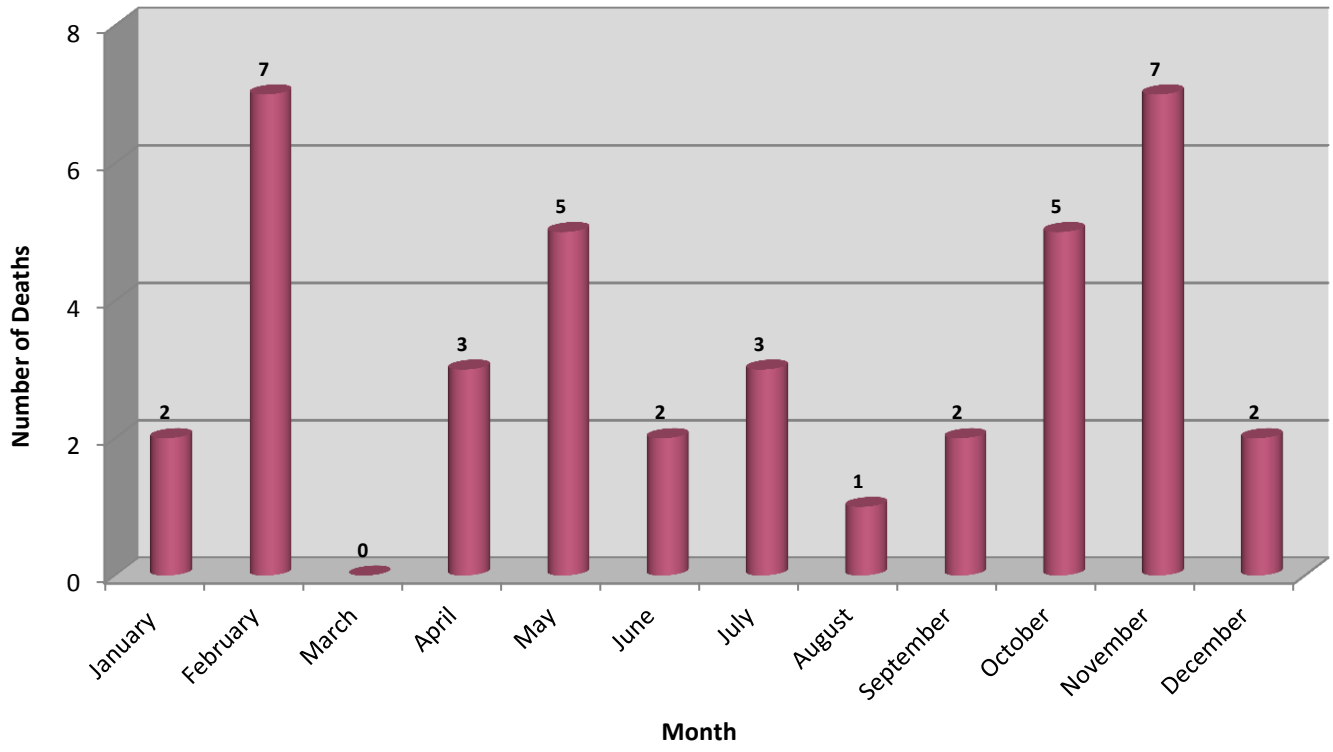


Figure 3.26 Number of Child Suicide Deaths by Day of the Week, 2014

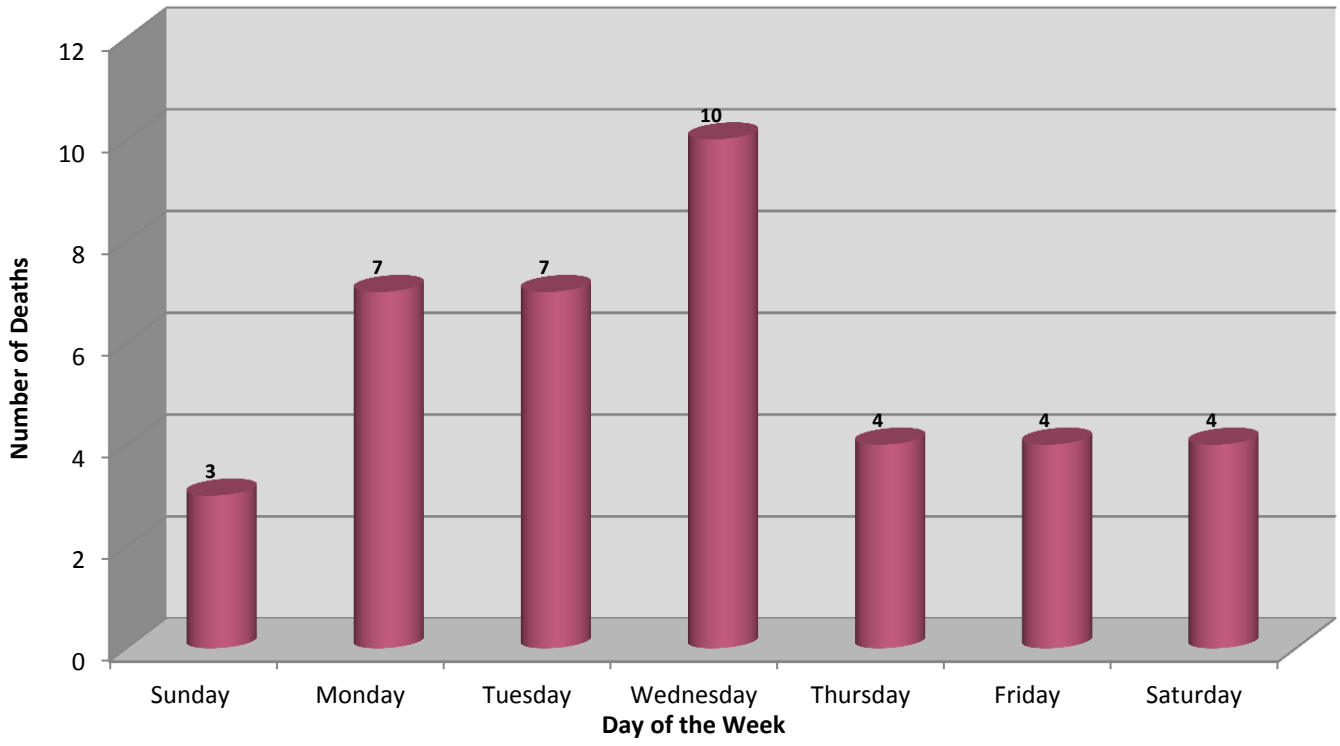


Table 3.5 Number of Child Suicide Deaths by Cause and Method of Death, 2014

Method of Death	Autopsied	Total Cases
Asphyxia		
Hanged	12	**19**
Drug Use		
Ingested and/or injected illegal, prescription, and/or other type of drug	4	**4**
Motor Vehicle		
Train	2	**2**
Traumatic Injury		
Gunshot Wound		
Handgun	4	4
Rifle	4	4
Shotgun	6	6
TOTAL CHILD SUICIDE DEATHS	**32**	**39**

UNDETERMINED CHILD DEATHS (N=93)

A total of 93 undetermined deaths of children occurred in 2014, representing 27.6% of all child deaths.

- Infants accounted for 90.3% of undetermined deaths
- Sudden unexpected infant death (SUID) deaths of infants <1 year of age represented 53.8% of all undetermined deaths

Figure 3.27 Number and Rate of Undetermined Child Deaths by Year, 2006-2014

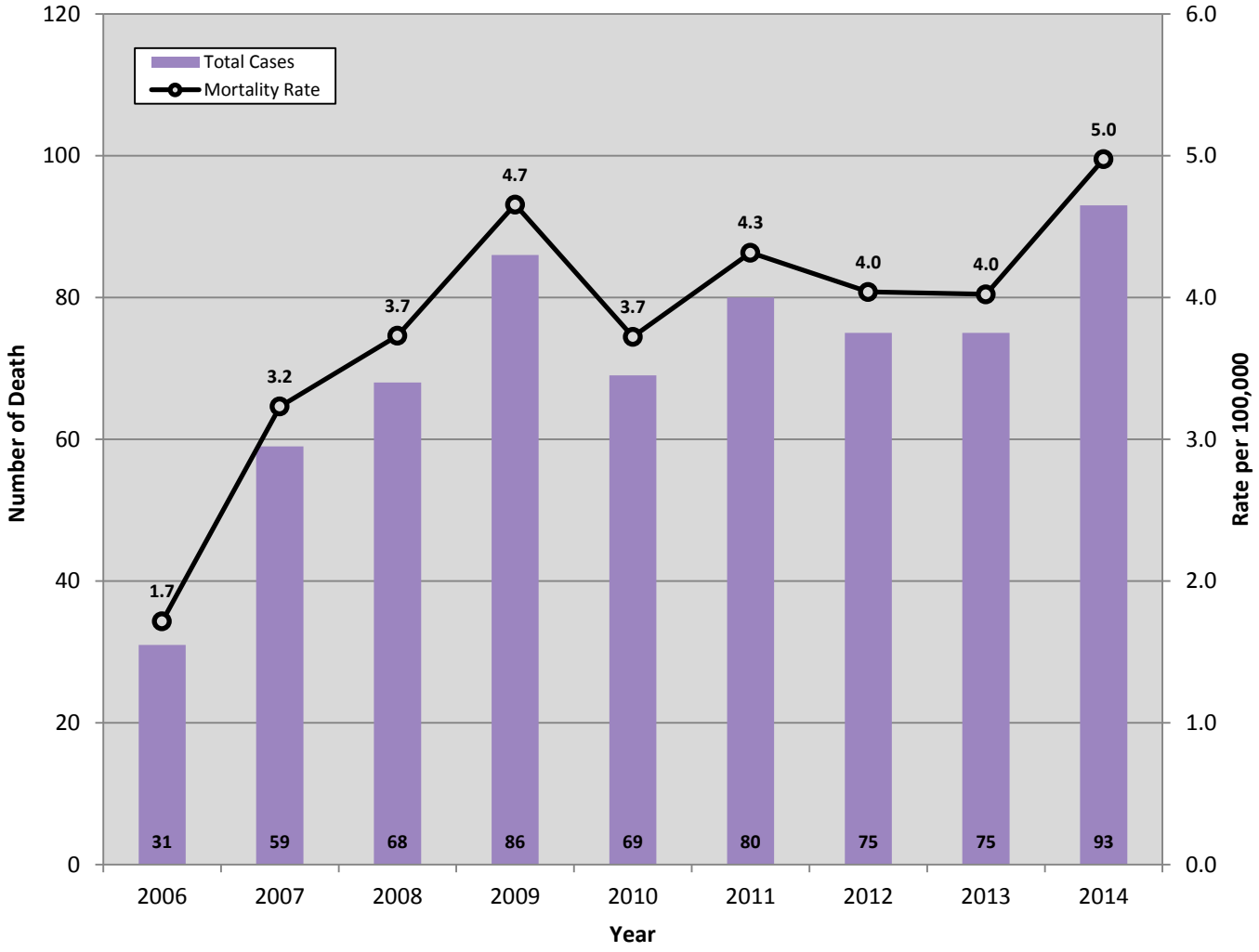


Figure 3.28 Number of Undetermined Child Deaths by Age and Gender, 2014

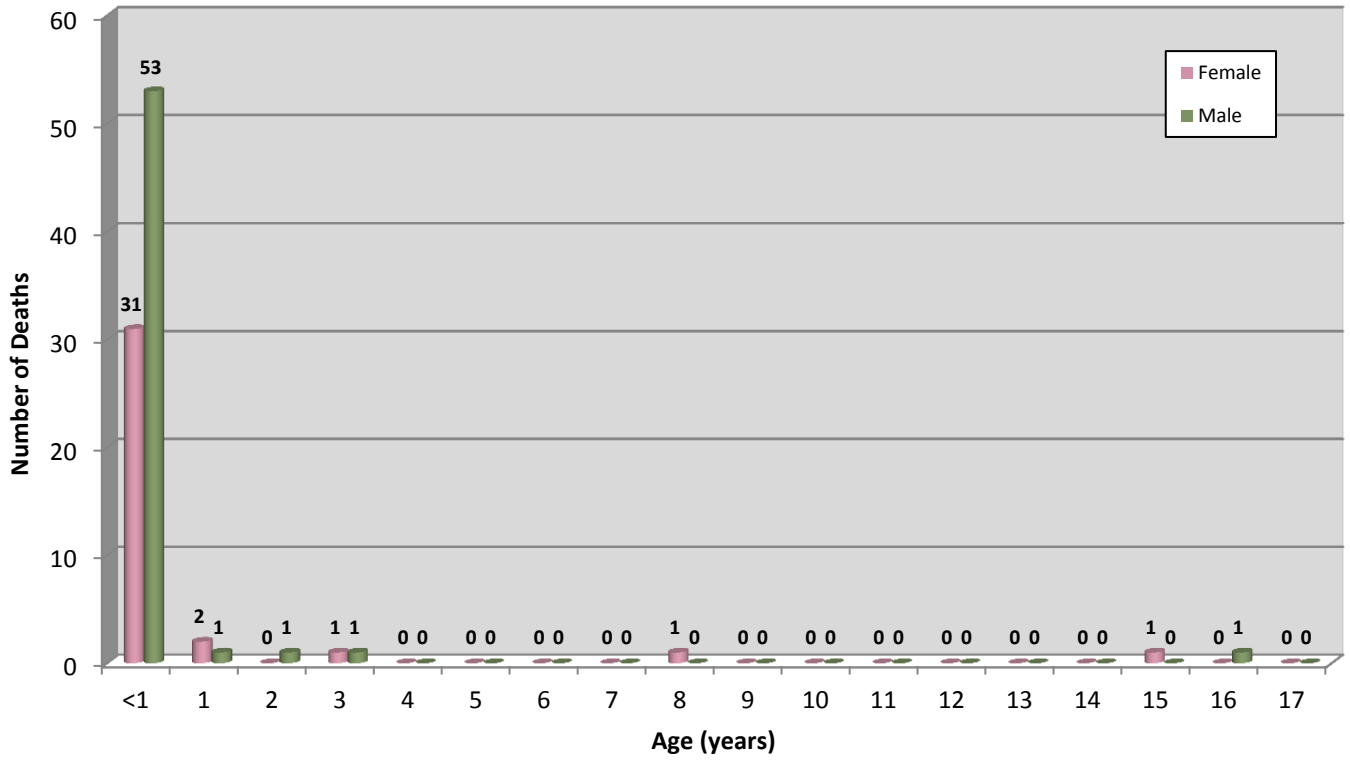


Figure 3.29 Percentage of Undetermined Child Deaths by Race/Ethnicity, 2014

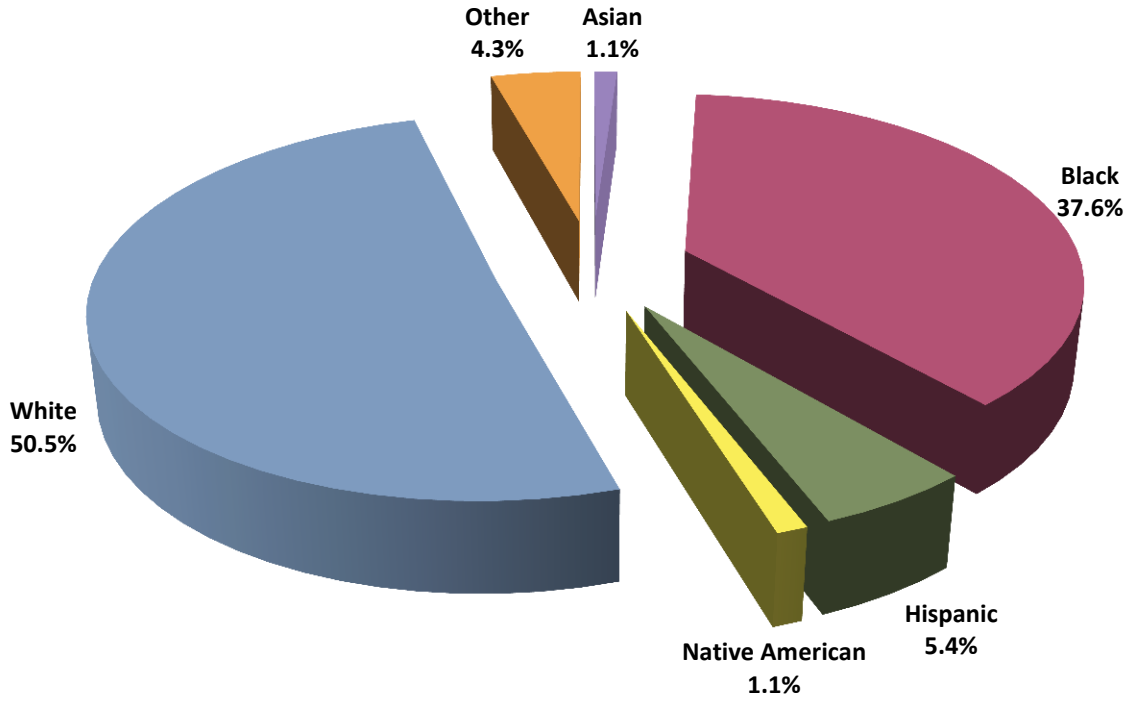
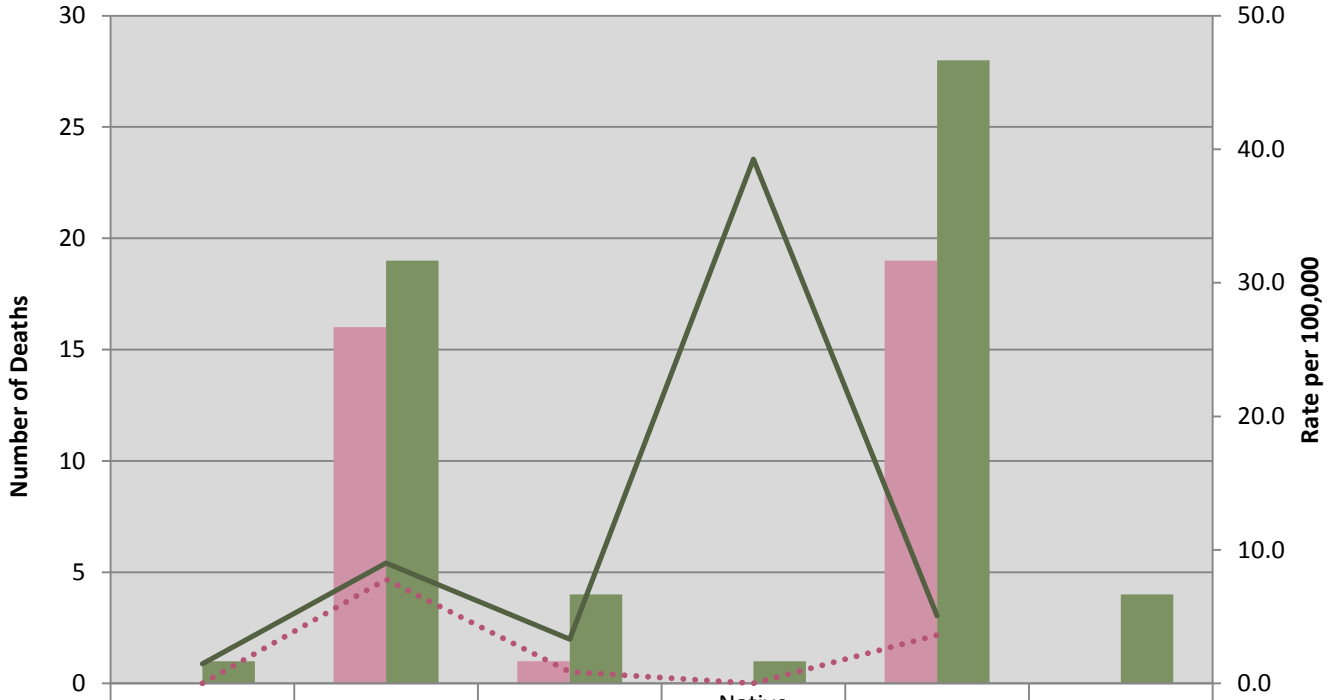


Figure 3.30 Number and Rate of Undetermined Child Deaths by Gender and Race/Ethnicity, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	0	16	1	0	19	0
Male	1	19	4	1	28	4
Female Rate	0.0	7.8	0.9	0.0	3.6	*
Male Rate	1.5	9.0	3.3	39.2	5.1	*

*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Table 3.6 Number of Undetermined Child Deaths by Cause and Method of Death, 2014

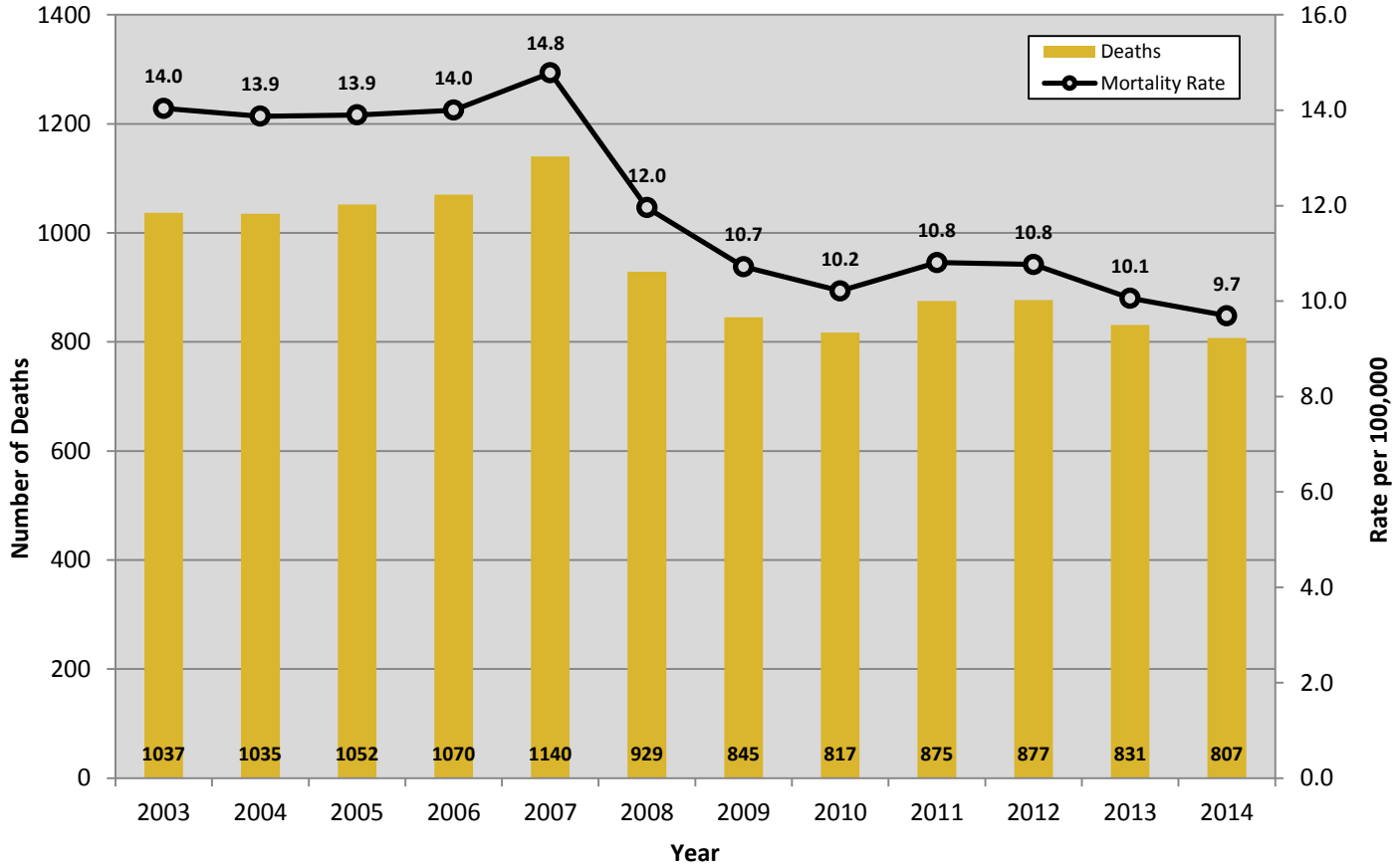
Determined Cause and Method of Death	Autopsied	Total Cases
Asphyxia		
Hanged	1	**1**
Suffocated/Smothered	4	**4**
Drug Use		
Ingested and/or injected illicit, prescription, and/or other drug	1	1
Fire		
Thermal Burns and/or Inhalation of Combustion Products	1	1
Traumatic Injury		
Other traumatic injury	4	**4**
Subtotal for Determined Cause and Method of Death	11	**11**
Undetermined Manner and Cause of Death		
Skeletal/Mummified remains	1	**1**
Sudden Unexpected Infant Death (SUID)	50	**50**
Other or undetermined after autopsy and/or toxicology	31	**31**
Subtotal for Undetermined Manner and Cause of Death	82	**82**
TOTAL UNDETERMINED CHILD DEATHS	**93**	**93**

SECTION 4: MOTOR VEHICLE FATALITIES (N=807)

The OCME investigated 807 motor vehicle collision-related deaths in 2014. Motor vehicle deaths continue to decline each year and in 2014 represented a 2.9% decrease compared to 2013.

- The vast majority of cases were accidents (97.6%) and victims were most often males (70.8%)
- Of the 672 motor vehicle fatalities tested for ethanol, 26.5% (n=178) had a blood alcohol content greater than or equal to 0.08% BAC; of these 178 decedents who were at or above the legal limit of alcohol, 73.6% were drivers
- Persons aged 25-34 years old had slightly more deaths (17.0%) due to motor vehicle incidents than any other age group, but they were closely followed by the 45-54 age group (16.4%)
- Twenty-six children under the age of 15 years died in motor vehicle-related incidents

Figure 4.1 Number and Rate of Motor Vehicle Deaths by Year, 2003-2014



*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 Motor Vehicle Deaths by Manner, 2014

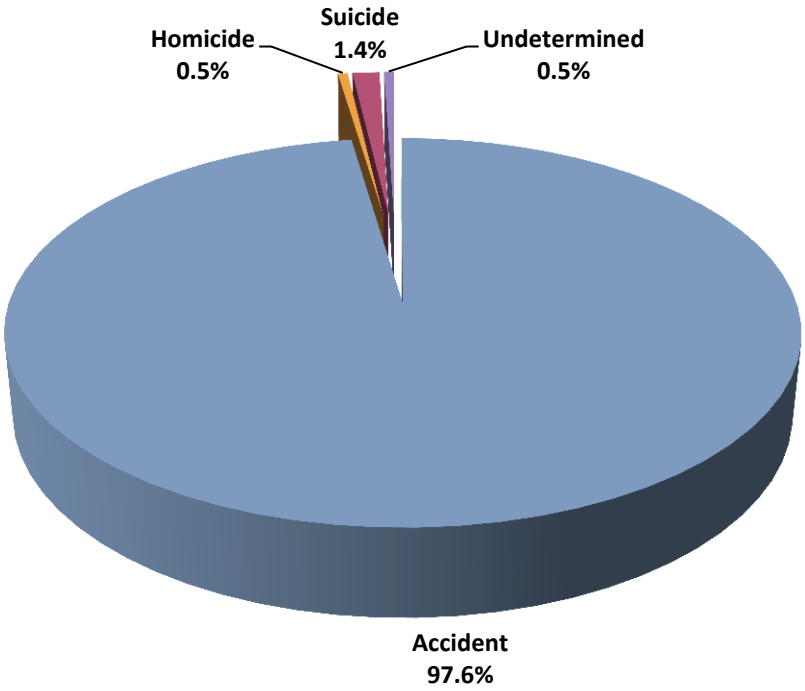
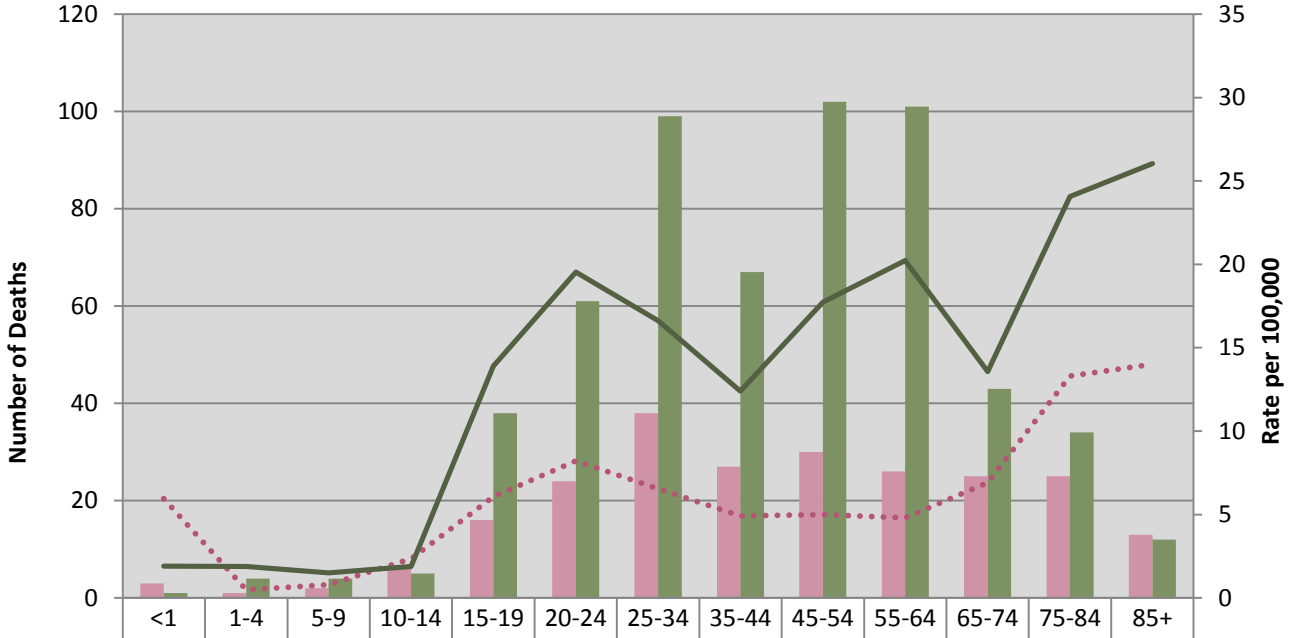


Figure 4.3 Number and Rate of Motor Vehicle Deaths by Age Group and Gender, 2014



	<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	3	1	2	6	16	24	38	27	30	26	25	25	13
Male	1	4	4	5	38	61	99	67	102	101	43	34	12
Female Rate	5.9	0.5	0.8	2.3	6.1	8.2	6.6	4.9	5.0	4.8	6.9	13.3	14.0
Male Rate	1.9	1.9	1.5	1.9	13.9	19.5	16.6	12.4	17.7	20.2	13.6	24.1	26.0

Age Group (years)

Figure 4.4 Percentage of Motor Vehicle Deaths by Race/Ethnicity, 2014

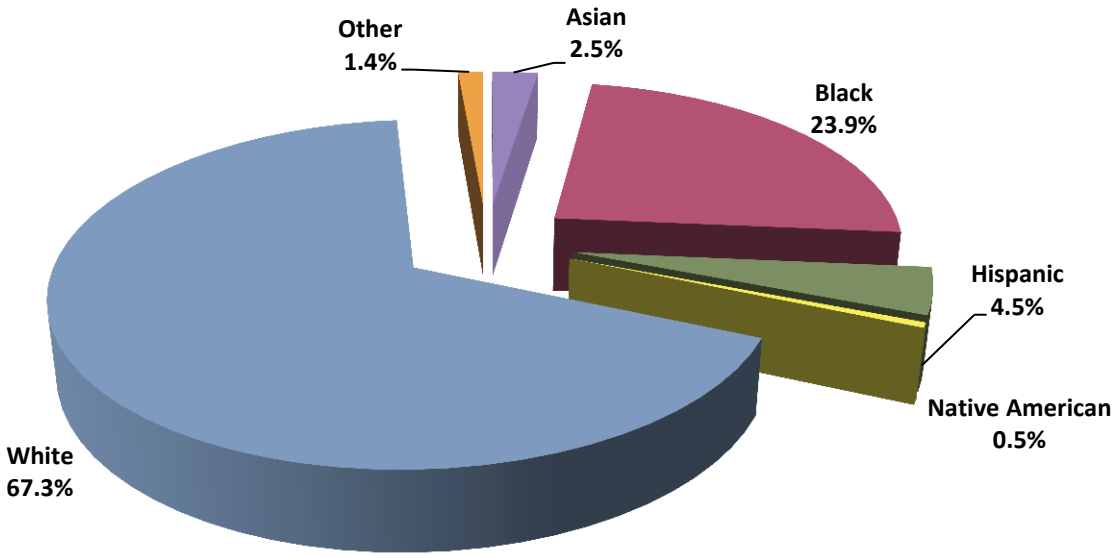
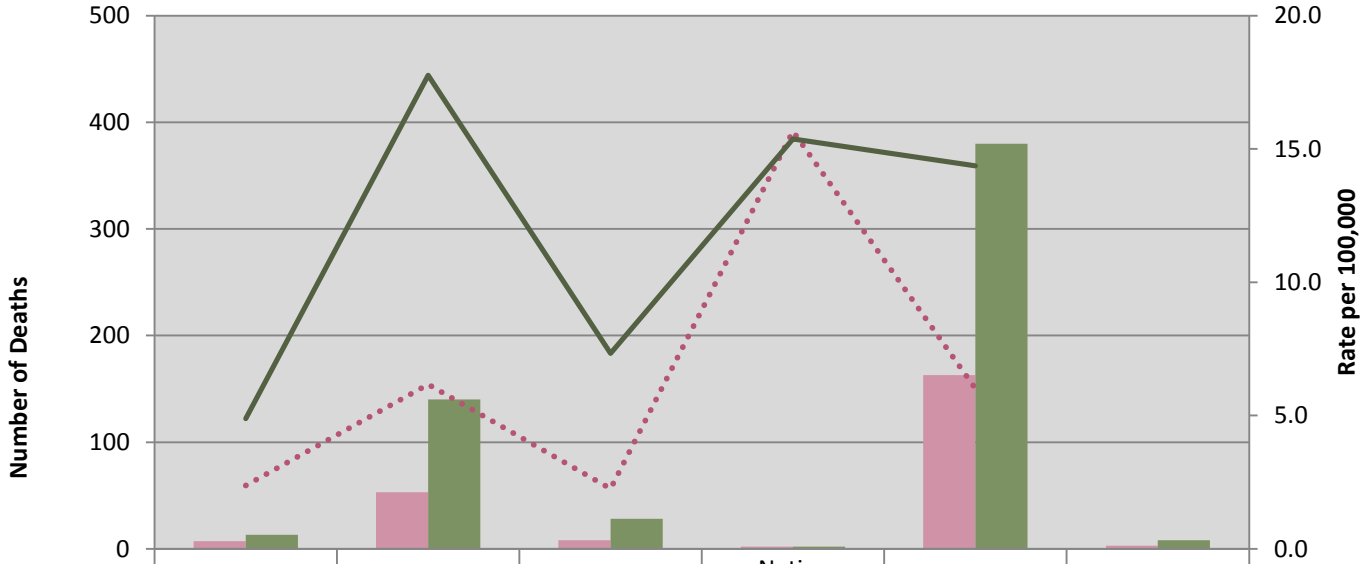


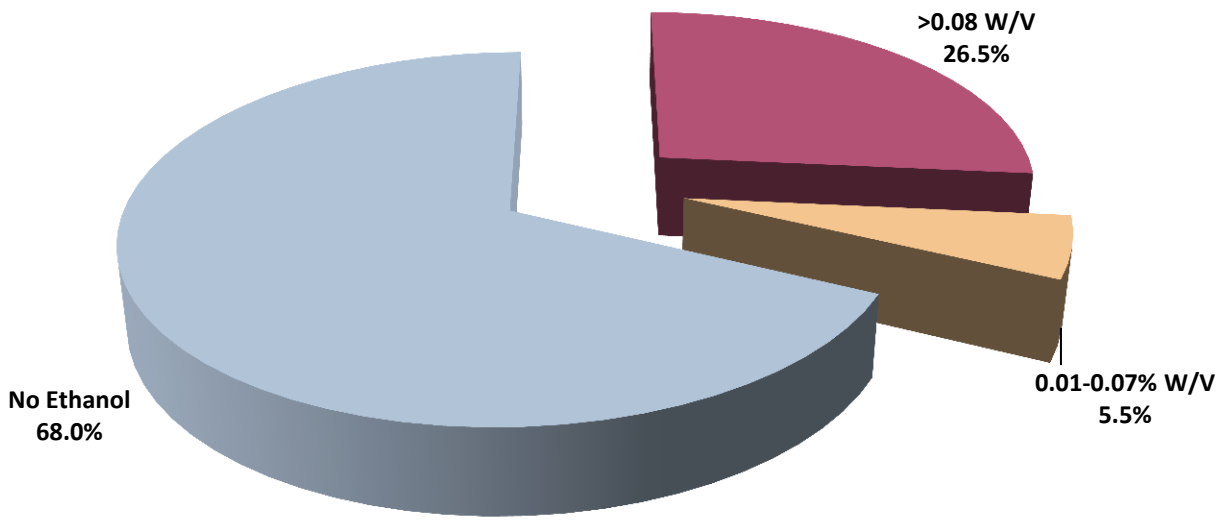
Figure 4.5 Number and Rate of Motor Vehicle Deaths by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	7	53	8	2	163	3
Male	13	140	28	2	380	8
Female Rate	2.4	6.2	2.3	15.7	6.0	*
Male Rate	4.9	17.8	7.3	15.4	14.4	*

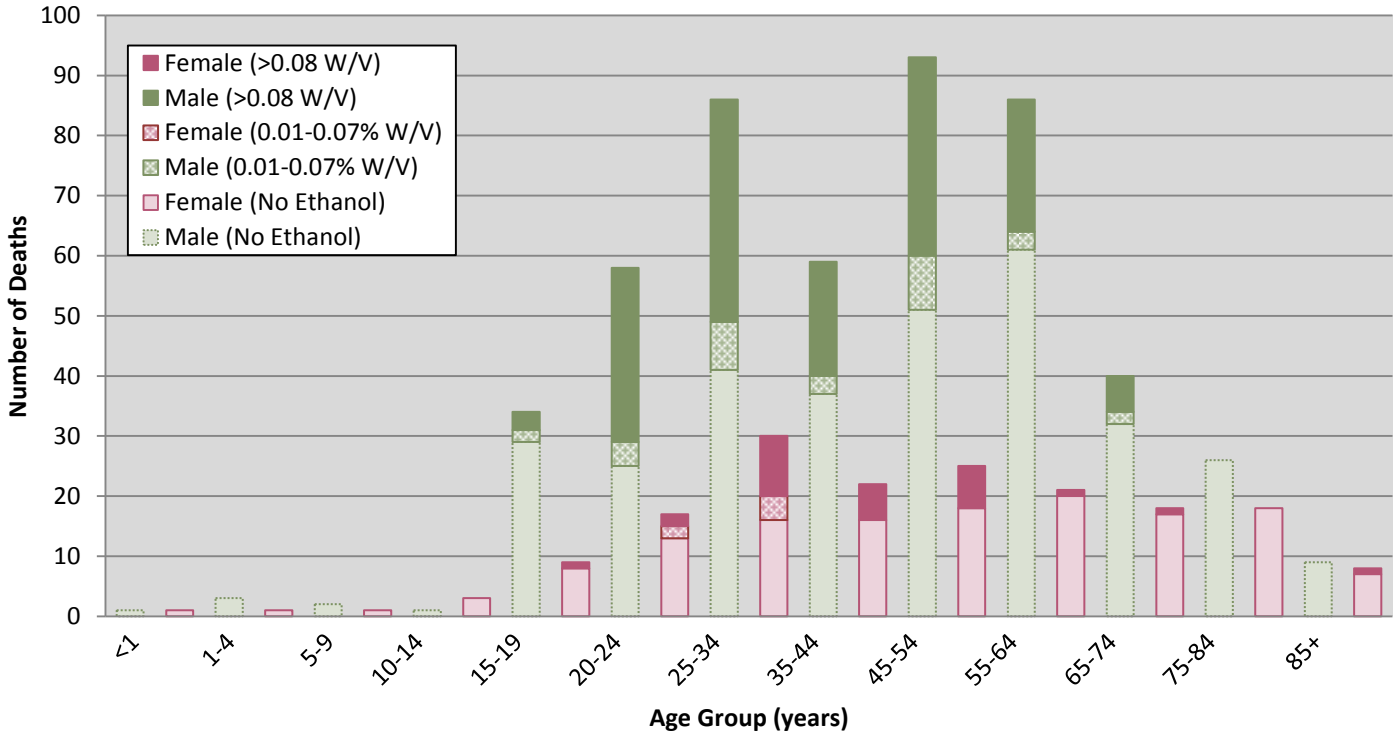
* No rate can be calculated
** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Figure 4.6 Percentage of Motor Vehicle Deaths by Ethanol Amount (N=672), 2014



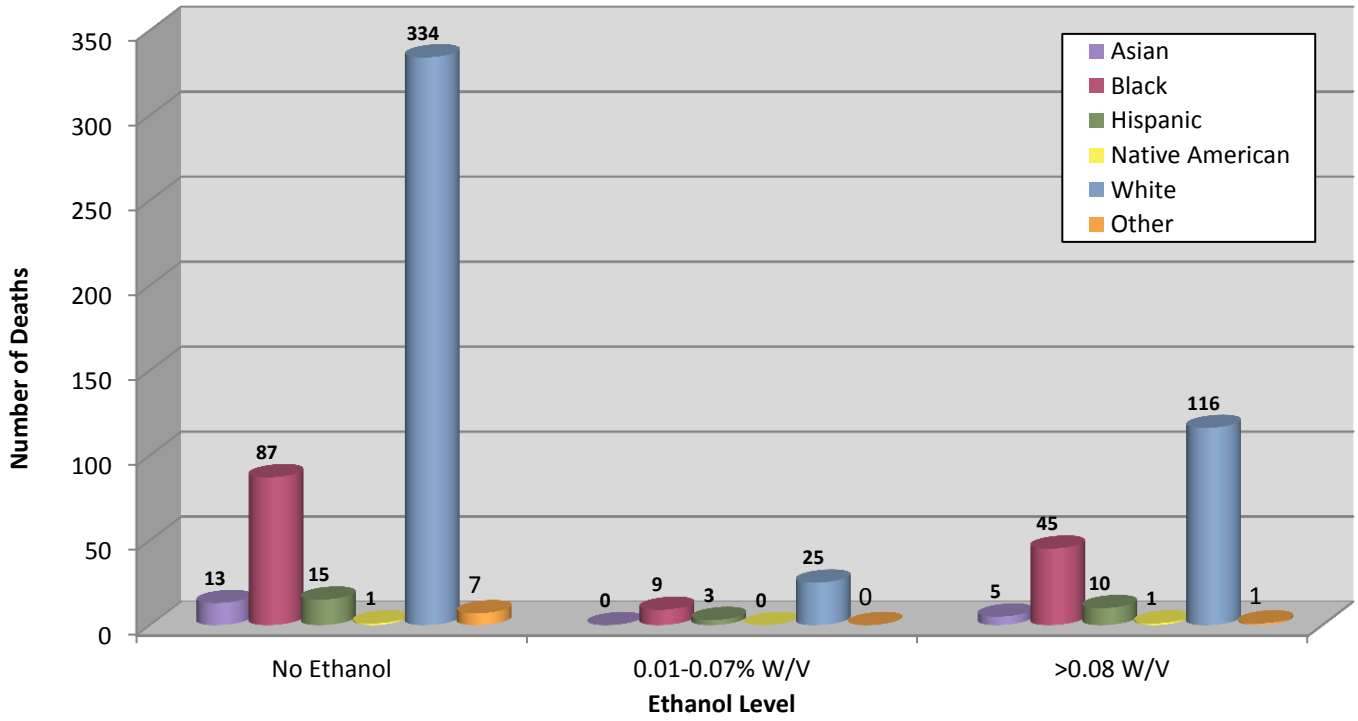
Note: Of the 807 motor vehicle deaths, 16.7% (n=135) did not receive alcohol testing.

Figure 4.7 Number of Motor Vehicle Deaths by Age Group, Gender, and Ethanol Amount (N=672), 2014



Note: Of the 807 motor vehicle deaths, 16.7% (n=135) did not receive alcohol

Figure 4.8 Number of Motor Vehicle Deaths by Ethanol Level and Race/Ethnicity (N=672), 2014

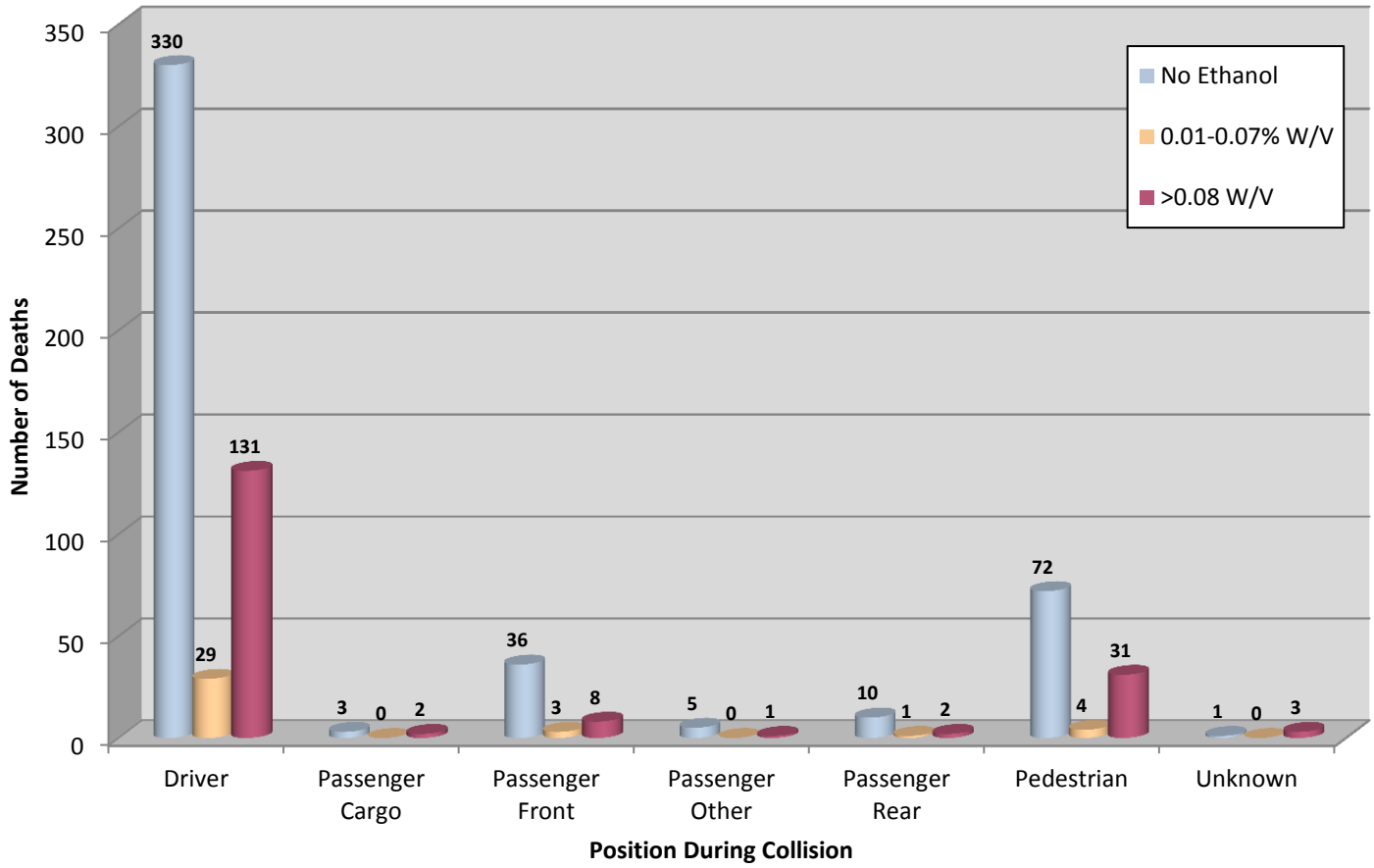


Note: Of the 807 motor vehicle deaths, 16.7% (n=135) did not receive alcohol testing.

Table 4.1 Number of Motor Vehicle Deaths by Age Group and Position during Collision, 2014

Age Group (years)	Driver	Passenger Cargo	Passenger Front	Passenger Other	Passenger Rear	Pedestrian	Unknown	Total
<1	0	0	1	3	0	0	0	**4**
1-4	0	0	1	0	2	2	0	**5**
5-9	1	0	0	0	2	3	0	**6**
10-14	3	0	3	0	4	1	0	**11**
15-19	28	1	11	2	5	7	0	**54**
20-24	59	2	8	0	3	12	1	**85**
25-34	93	0	18	1	6	17	2	**137**
35-44	66	1	9	2	1	15	0	**94**
45-54	96	1	10	0	1	21	3	**132**
55-64	85	2	7	1	5	27	0	**127**
65-74	50	0	5	0	0	12	1	**68**
75-84	41	1	11	0	1	5	0	**59**
85+	11	0	10	0	0	4	0	**25**
TOTAL	**533**	**8**	**94**	**9**	**30**	**126**	**7**	**807**

Figure 4.9 Number of Motor Vehicle Deaths by Position during Collision and Ethanol Level (N=672), 2014



Note: Of the 807 motor vehicle deaths, 16.7% (n=135) did not receive alcohol testing.

Table 4.2 Number of Motor Vehicle Deaths by Position during Collision, Vehicle Type, and Ethanol Level, 2014

Position During Collision	Vehicle Type	No Ethanol	0.01-0.07% W/V	>0.08 W/V	Total
Driver	Aircraft	5	0	0	**5**
	All Terrain Vehicle	5	1	3	**9**
	Bicycle	7	0	1	**8**
	Boat	1	0	1	**2**
	Car	150	12	66	**228**
	Construction Equipment	1	0	0	**1**
	Dump Truck	3	0	0	**3**
	Farm Equipment	4	0	1	**5**
	Lawnmower	1	0	0	**1**
	Mo-ped	5	1	4	**10**
	Motorcycle	47	5	17	**69**
	Pickup Truck	37	1	22	**60**
	Skateboard	1	0	0	**1**
	Sport Utility Vehicle	31	4	13	**48**
	Tow Truck	1	0	0	**1**
	Tractor Trailer	13	1	0	**14**
	Train	1	0	0	**1**
	Truck (other)	4	1	0	**5**
	Van	10	2	3	**15**
	Unknown	3	1	0	**4**
	Subtotal of Driver	**330**	**29**	**131**	**490**
Passenger Cargo	Bus	0	0	1	**1**
	Car	2	0	0	**2**
	Construction Equipment	1	0	0	**1**
	Train	0	0	1	**1**
	Subtotal Passenger Cargo	**3**	**0**	**2**	**5**
Passenger Front	Aircraft	1	0	0	**1**
	All Terrain Vehicle	0	0	1	**1**
	Boat	1	0	0	**1**

Position During Collision	Vehicle Type	No Ethanol	0.01-0.07% W/V	>0.08 W/V	Total
	Car	22	2	4	**28**
	Pickup Truck	4	0	2	**6**
	Sport Utility Vehicle	6	1	0	**7**
	Tractor Trailer	0	0	1	**1**
	Van	2	0	0	**2**
	Subtotal of Passenger Front	**36**	**3**	**8**	**47**
Passenger Other	All Terrain Vehicle	0	0	1	**1**
	Boat	1	0	0	**1**
	Car	2	0	0	**2**
	Farm Equipment	1	0	0	**1**
	Sport Utility Vehicle	1	0	0	**1**
	Subtotal of Passenger Other	**5**	**0**	**1**	**6**
Passenger Rear	Car	8	0	1	**9**
	Motorcycle	1	1	0	**2**
	Pickup Truck	0	0	1	**1**
	Van	1	0	0	**1**
	Subtotal of Passenger Rear	**10**	**1**	**2**	**13**
Pedestrian	Bicycle	1	0	0	**1**
	Bus	2	0	0	**2**
	Car	23	4	15	**42**
	Construction Equipment	1	0	0	**1**
	Dump Truck	2	0	0	**2**
	Multiple	2	0	0	**2**
	Pickup Truck	7	0	4	**11**
	Snow Plow	1	0	0	**1**
	Sport Utility Vehicle	15	0	5	**20**
	Tractor Trailer	6	0	1	**7**
	Train	6	0	4	**10**
	Truck (other)	1	0	2	**3**
	Van	3	0	0	**3**
	Unknown	2	0	0	**2**
	Subtotal of Pedestrian	**72**	**4**	**31**	**107**

Position During Collision	Vehicle Type	No Ethanol	0.01-0.07% W/V	>0.08 W/V	Total
Unknown Status	All Terrain Vehicle	0	0	1	**1**
	Car	0	0	1	**1**
	Unknown	1	0	1	**2**
	Subtotal of Unknown Status	**1**	**0**	**3**	**4**
TOTAL OF ALL MOTOR VEHICLE ACCIDENTS		**457**	**37**	**178**	**672**

Figure 4.10 Number of OCME Motor Vehicle Fatalities by Month of Death, 2014

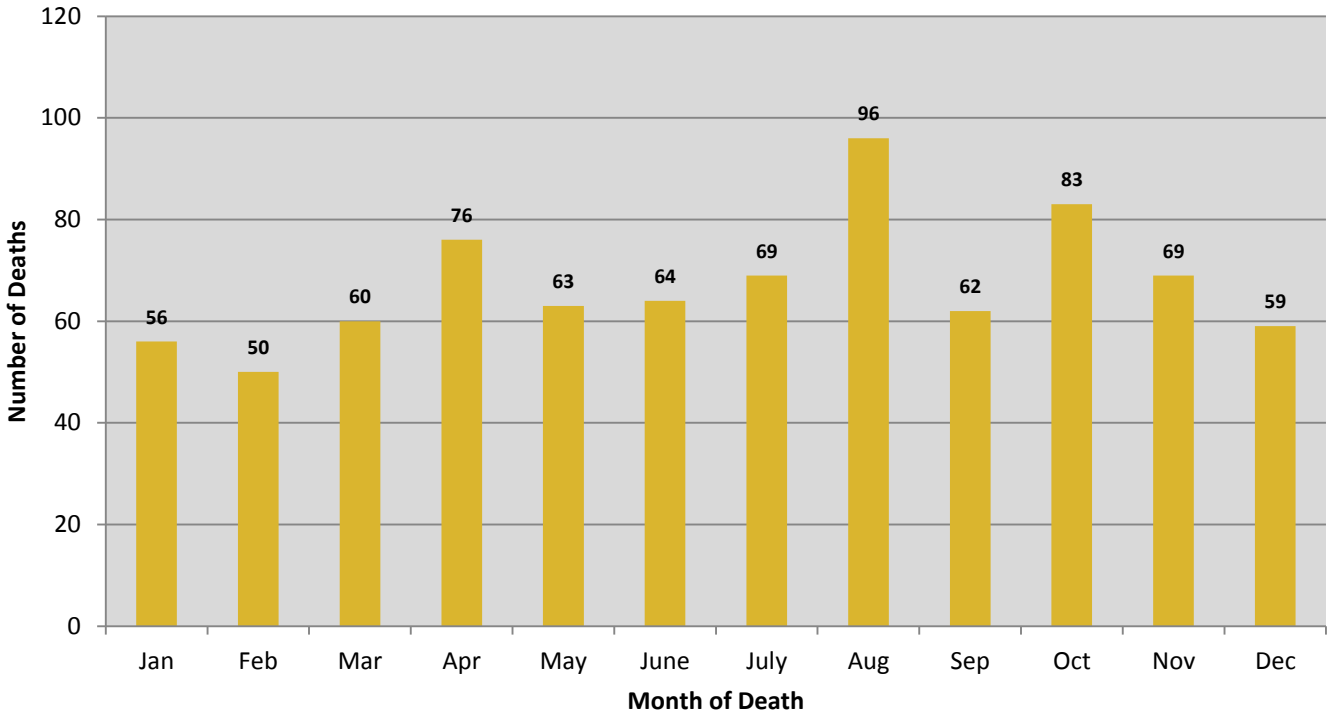


Figure 4.11 Number of OCME Motor Vehicle Fatalities by Day of Week, 2014

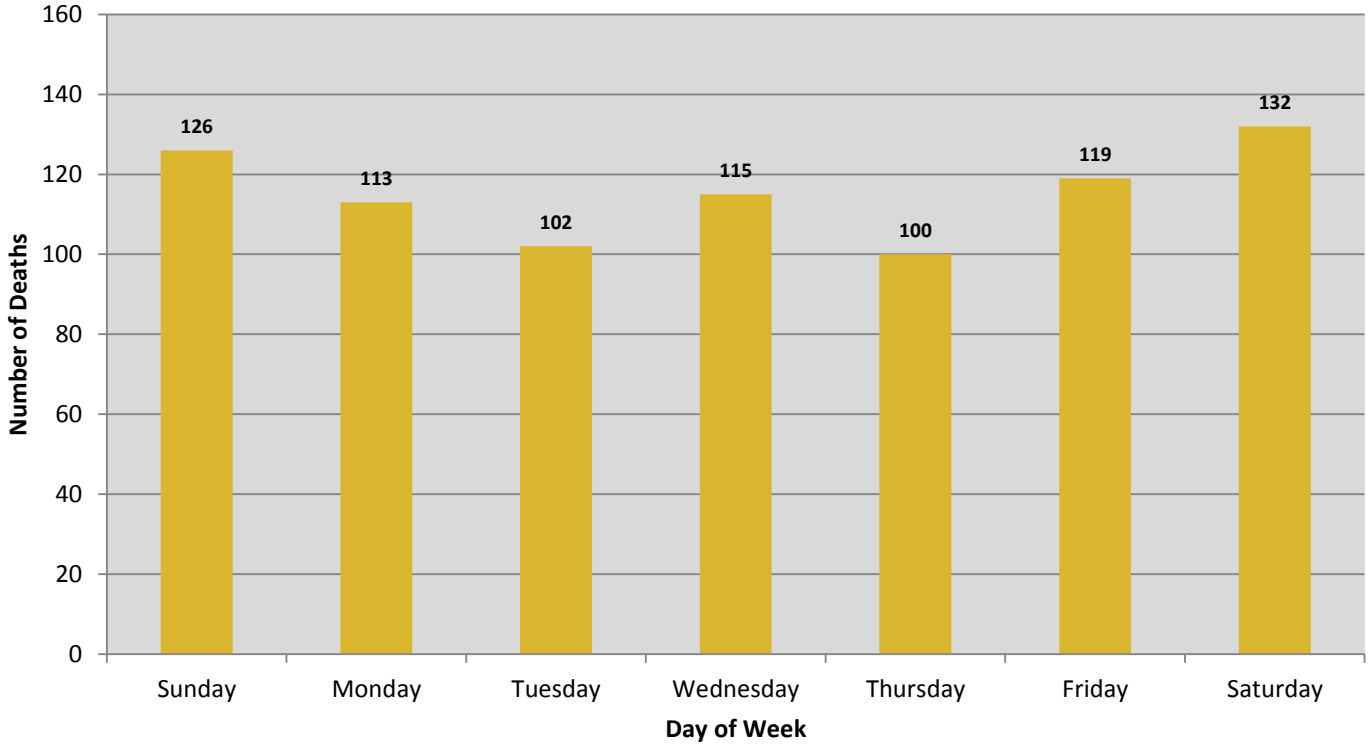


Table 4.3 Number and Rate of Motor Vehicle Deaths by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	4	12.1
Albemarle County	9	8.6
Alexandria City	1	0.7
Alleghany County	3	19.0
Amelia County	2	15.6
Amherst County	4	12.5
Appomattox County	2	13.1
Arlington County	4	1.8
Augusta County	7	9.5
Bath County	3	65.7
Bedford County	10	13.1
Bland County	0	0.0
Botetourt County	7	21.1
Bristol City	0	0.0
Brunswick County	8	48.5
Buchanan County	1	4.3
Buckingham County	4	23.7
Buena Vista City	0	0.0
Campbell County	8	14.6
Caroline County	2	6.7
Carroll County	3	10.1
Charles City County	1	14.2
Charlotte County	1	8.2
Charlottesville City	2	4.4
Chesapeake City	17	7.3
Chesterfield County	31	9.3
Clarke County	0	0.0
Colonial Heights City	1	5.6
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	5	10.2
Cumberland County	4	40.7
Danville City	4	9.4
Dickenson County	3	19.6
Dinwiddie County	3	10.8

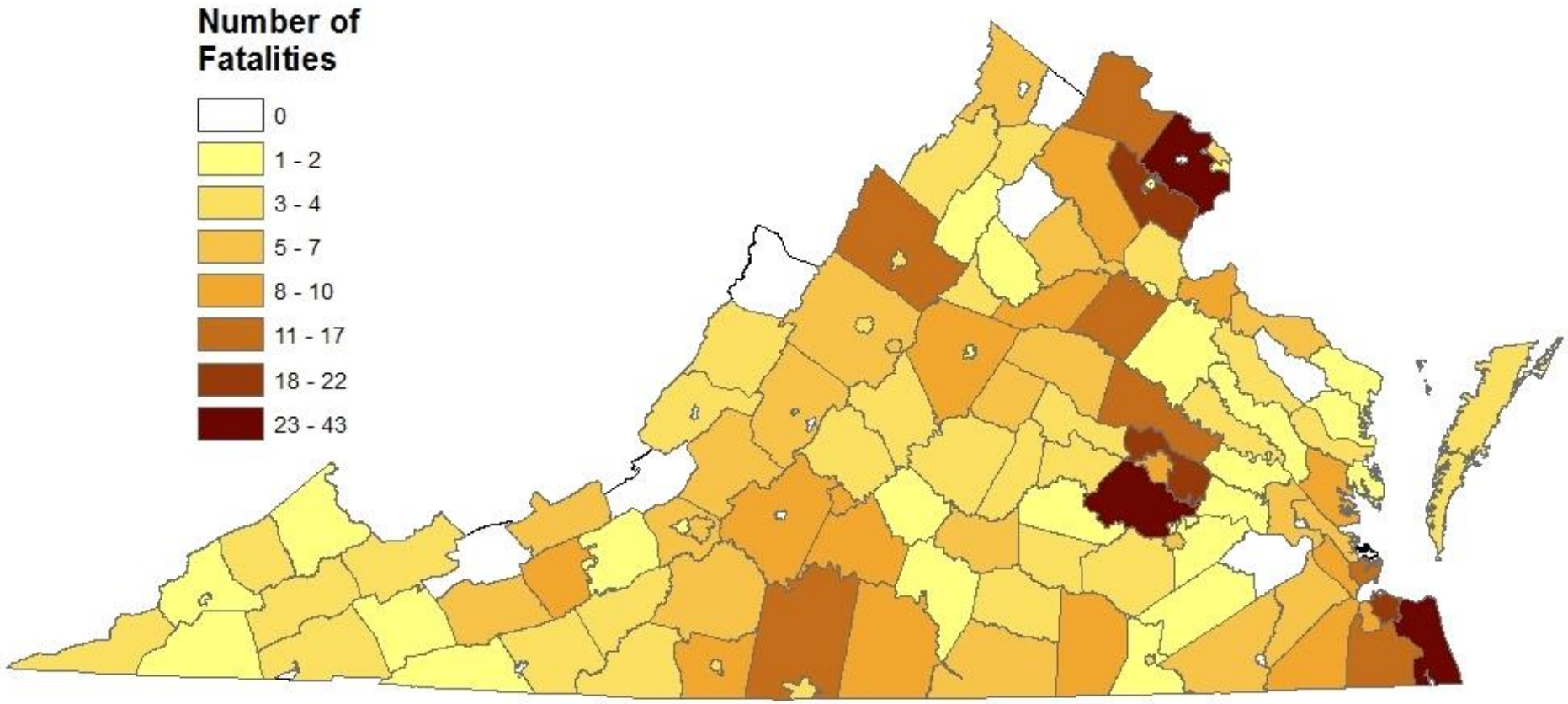
Locality of Residence	Total Cases	Rate
Emporia City	3	54.9
Essex County	3	27.0
Fairfax City	0	0.0
Fairfax County	43	3.8
Falls Church City	0	0.0
Fauquier County	9	13.2
Floyd County	3	19.3
Fluvanna County	6	23.0
Franklin City	0	0.0
Franklin County	7	12.4
Frederick County	6	7.3
Fredericksburg City	2	7.1
Galax City	0	0.0
Giles County	7	41.6
Gloucester County	8	21.5
Goochland County	3	13.7
Grayson County	2	13.3
Greene County	4	21.0
Greensville County	1	8.6
Halifax County	8	22.7
Hampton City	13	9.5
Hanover County	16	15.7
Harrisonburg City	4	7.6
Henrico County	19	5.9
Henry County	10	19.2
Highland County	0	0.0
Hopewell City	2	9.0
Isle of Wight County	7	19.4
James City County	6	8.3
King and Queen County	1	13.9
King George County	8	31.5
King William County	3	18.5
Lancaster County	1	9.1
Lee County	3	12.0
Lexington City	0	0.0

Locality of Residence	Total Cases	Rate
Loudoun County	14	3.9
Louisa County	6	17.5
Lunenburg County	3	24.1
Lynchburg City	9	11.4
Madison County	2	15.2
Manassas	1	2.4
Manassas Park	1	6.6
Martinsville City	4	29.2
Mathews County	1	11.3
Mecklenburg County	7	22.4
Middlesex County	3	28.0
Montgomery County	2	2.1
Nelson County	3	20.2
New Kent County	1	5.0
Newport News City	10	5.5
Norfolk City	22	9.0
Northampton County	4	33.0
Northumberland County	1	8.2
Norton City	1	24.8
Nottoway County	3	19.3
Orange County	9	25.7
Page County	2	8.4
Patrick County	3	16.4
Petersburg City	6	18.3
Pittsylvania County	14	22.4
Poquoson City	0	0.0
Portsmouth City	8	8.3
Powhatan County	4	14.1
Prince Edward County	5	21.7
Prince George County	2	5.4
Prince William County	19	4.3
Pulaski County	10	29.1
Radford City	1	5.7
Rappahannock County	0	0.0
Richmond City	10	4.6
Richmond County	0	0.0

Locality of Residence	Total Cases	Rate
Roanoke City	6	6.0
Roanoke County	7	7.5
Rockbridge County	6	26.9
Rockingham County	15	19.2
Russell County	4	14.3
Salem City	1	3.9
Scott County	2	8.9
Shenandoah County	4	9.3
Smyth County	2	6.3
Southampton County	5	27.7
Spotsylvania County	14	10.8
Stafford County	4	2.9
Staunton City	4	16.3
Suffolk City	9	10.4
Surry County	0	0.0
Sussex County	2	17.0
Tazewell County	4	9.2
Virginia Beach City	37	8.2
Warren County	4	10.3
Washington County	4	7.3
Waynesboro City	5	23.4
Westmoreland County	6	34.3
Williamsburg City	0	0.0
Winchester City	0	0.0
Wise County	2	5.0
Wythe County	5	17.2
York County	6	9.0
Subtotal (in-state)	**711**	**8.5**
Out of State	88	ND
Unknown	8	ND
Subtotal (out-of-state)	**96**	**ND**
TOTAL	**807**	**9.7**

Note: No denominator is represented by ND

Map 4.1 Number of Motor Vehicle Fatalities by Locality of Residence, 2014



Map 4.2 Rate of Motor Vehicle Fatalities by Locality of Residence, 2014

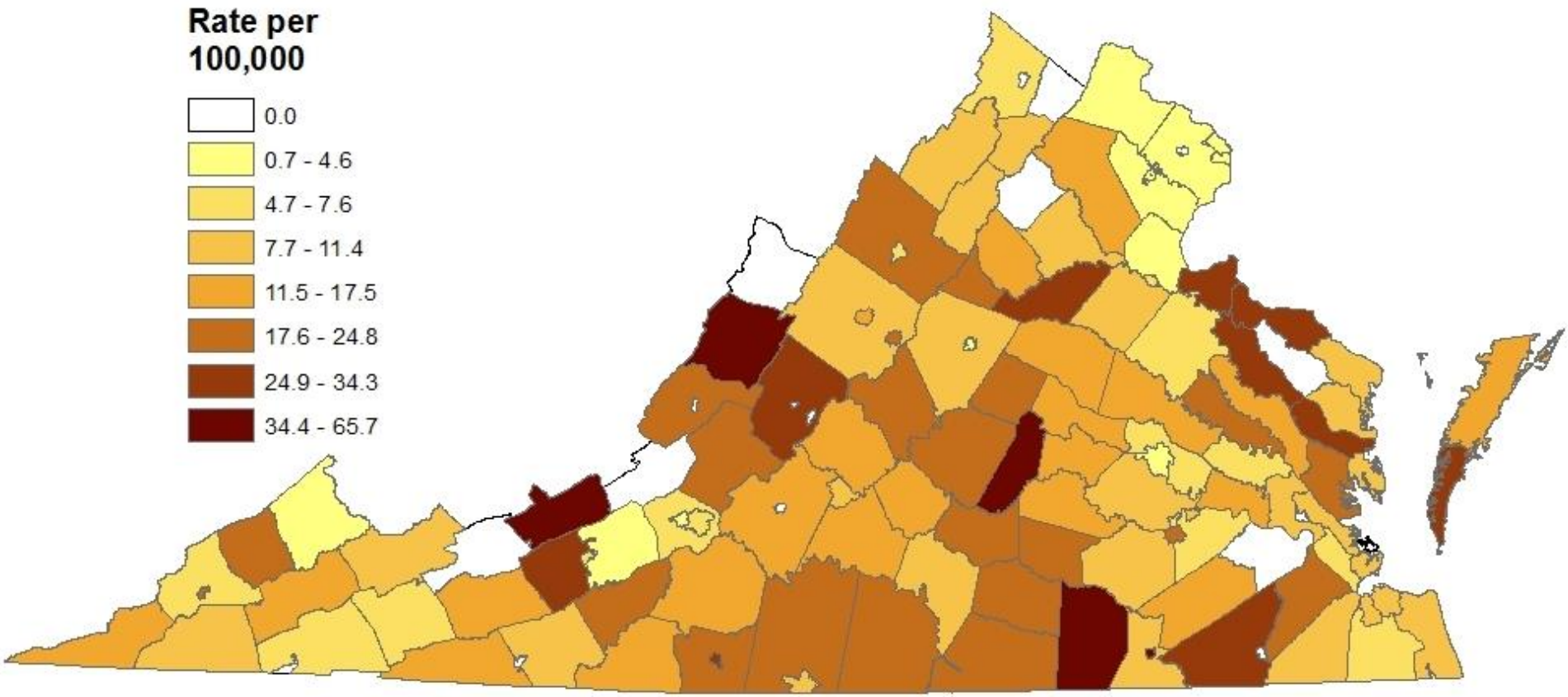


Table 4.4 Number and Rate of Motor Vehicle Deaths by Locality of Injury, 2014

Locality of Injury	Total Cases	Rate
Accomack County	8	24.2
Albemarle County	18	17.2
Alexandria City	0	0.0
Alleghany County	5	31.6
Amelia County	1	7.8
Amherst County	7	21.8
Appomattox County	4	26.2
Arlington County	3	1.3
Augusta County	11	14.9
Bath County	1	21.9
Bedford County	10	13.1
Bland County	1	15.1
Botetourt County	7	21.1
Bristol City	0	0.0
Brunswick County	9	54.6
Buchanan County	2	8.7
Buckingham County	11	65.0
Buena Vista City	0	0.0
Campbell County	10	18.2
Caroline County	1	3.4
Carroll County	5	16.9
Charles City County	1	14.2
Charlotte County	3	24.5
Charlottesville City	2	4.4
Chesapeake City	12	5.1
Chesterfield County	24	7.2
Clarke County	1	6.9
Colonial Heights City	0	0.0
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	10	20.3
Cumberland County	1	10.2
Danville City	3	7.1
Dickenson County	4	26.1

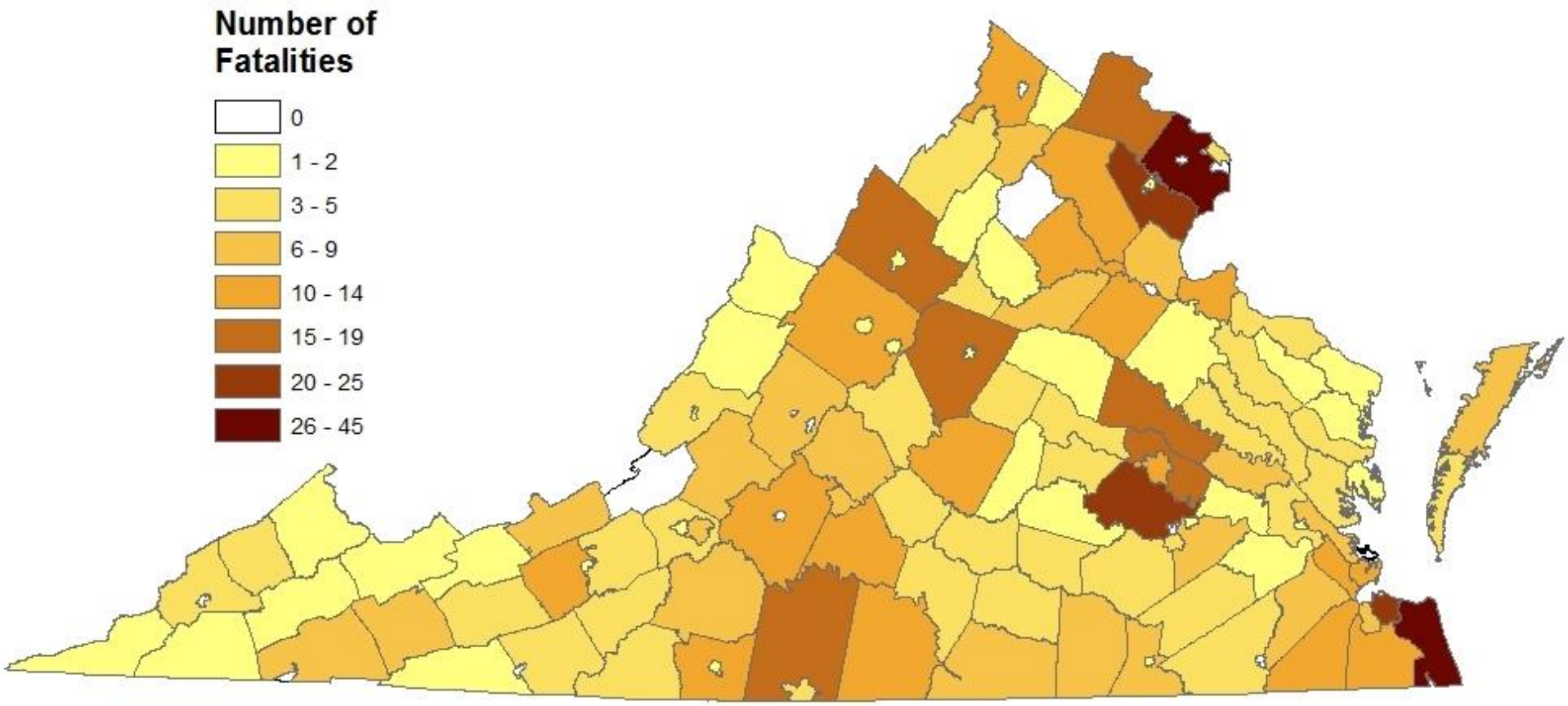
Locality of Injury	Total Cases	Rate
Dinwiddie County	4	14.4
Emporia City	1	18.3
Essex County	5	45.0
Fairfax City	0	0.0
Fairfax County	45	4.0
Falls Church City	0	0.0
Fauquier County	10	14.7
Floyd County	3	19.3
Fluvanna County	3	11.5
Franklin City	0	0.0
Franklin County	9	16.0
Frederick County	11	13.4
Fredericksburg City	0	0.0
Galax City	0	0.0
Giles County	9	53.5
Gloucester County	4	10.8
Goochland County	4	18.2
Grayson County	2	13.3
Greene County	3	15.8
Greensville County	7	59.9
Halifax County	10	28.4
Hampton City	13	9.5
Hanover County	19	18.6
Harrisonburg City	1	1.9
Henrico County	19	5.9
Henry County	13	25.0
Highland County	1	44.5
Hopewell City	2	9.0
Isle of Wight County	9	25.0
James City County	5	6.9
King and Queen County	3	41.8
King George County	10	39.4
King William County	3	18.5
Lancaster County	1	9.1

Locality of Injury	Total Cases	Rate
Lee County	2	8.0
Lexington City	0	0.0
Loudoun County	15	4.1
Louisa County	2	5.8
Lunenburg County	3	24.1
Lynchburg City	6	7.6
Madison County	2	15.2
Manassas	1	2.4
Manassas Park	0	0.0
Martinsville City	1	7.3
Mathews County	1	11.3
Mecklenburg County	9	28.9
Middlesex County	5	46.7
Montgomery County	3	3.1
Nelson County	4	26.9
New Kent County	8	40.0
Newport News City	12	6.6
Norfolk City	23	9.4
Northampton County	3	24.8
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	4	25.7
Orange County	7	20.0
Page County	2	8.4
Patrick County	3	16.4
Petersburg City	3	9.2
Pittsylvania County	17	27.3
Poquoson City	0	0.0
Portsmouth City	7	7.3
Powhatan County	4	14.1
Prince Edward County	4	17.3
Prince George County	6	16.1
Prince William County	25	5.6
Pulaski County	11	32.0
Radford City	1	5.7
Rappahannock County	0	0.0

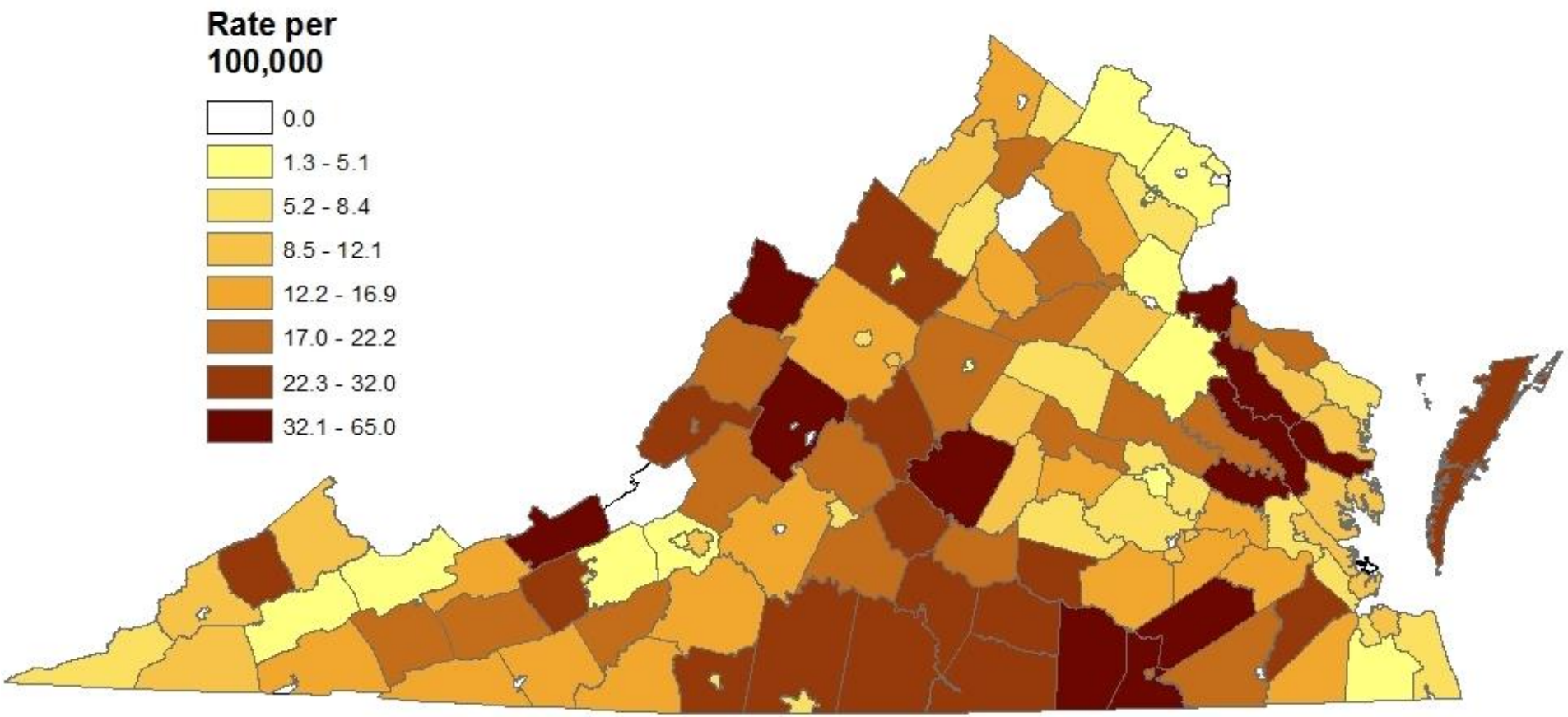
Locality of Injury	Total Cases	Rate
Richmond City	11	5.0
Richmond County	1	11.2
Roanoke City	9	9.1
Roanoke County	4	4.3
Rockbridge County	9	40.3
Rockingham County	18	23.0
Russell County	1	3.6
Salem City	1	3.9
Scott County	2	8.9
Shenandoah County	5	11.6
Smyth County	7	22.2
Southampton County	4	22.1
Spotsylvania County	14	10.8
Stafford County	6	4.3
Staunton City	2	8.2
Suffolk City	11	12.7
Surry County	1	14.7
Sussex County	5	42.5
Tazewell County	2	4.6
Virginia Beach City	34	7.5
Warren County	8	20.5
Washington County	7	12.8
Waynesboro City	2	9.4
Westmoreland County	3	17.2
Williamsburg City	1	6.8
Winchester City	0	0.0
Wise County	4	10.0
Wythe County	5	17.2
York County	8	12.1
Subtotal (in-state)	**785**	**9.4**
Out of State	19	ND
Unknown	3	ND
Subtotal (out-of-state)	**22**	**ND**
TOTAL	**807**	**9.7**

Note: No denominator is represented by ND

Map 4.3 Number of Motor Vehicle Fatalities by Locality of Injury, 2014



Map 4.4 Rate of Motor Vehicle Fatalities by Locality of Injury, 2014



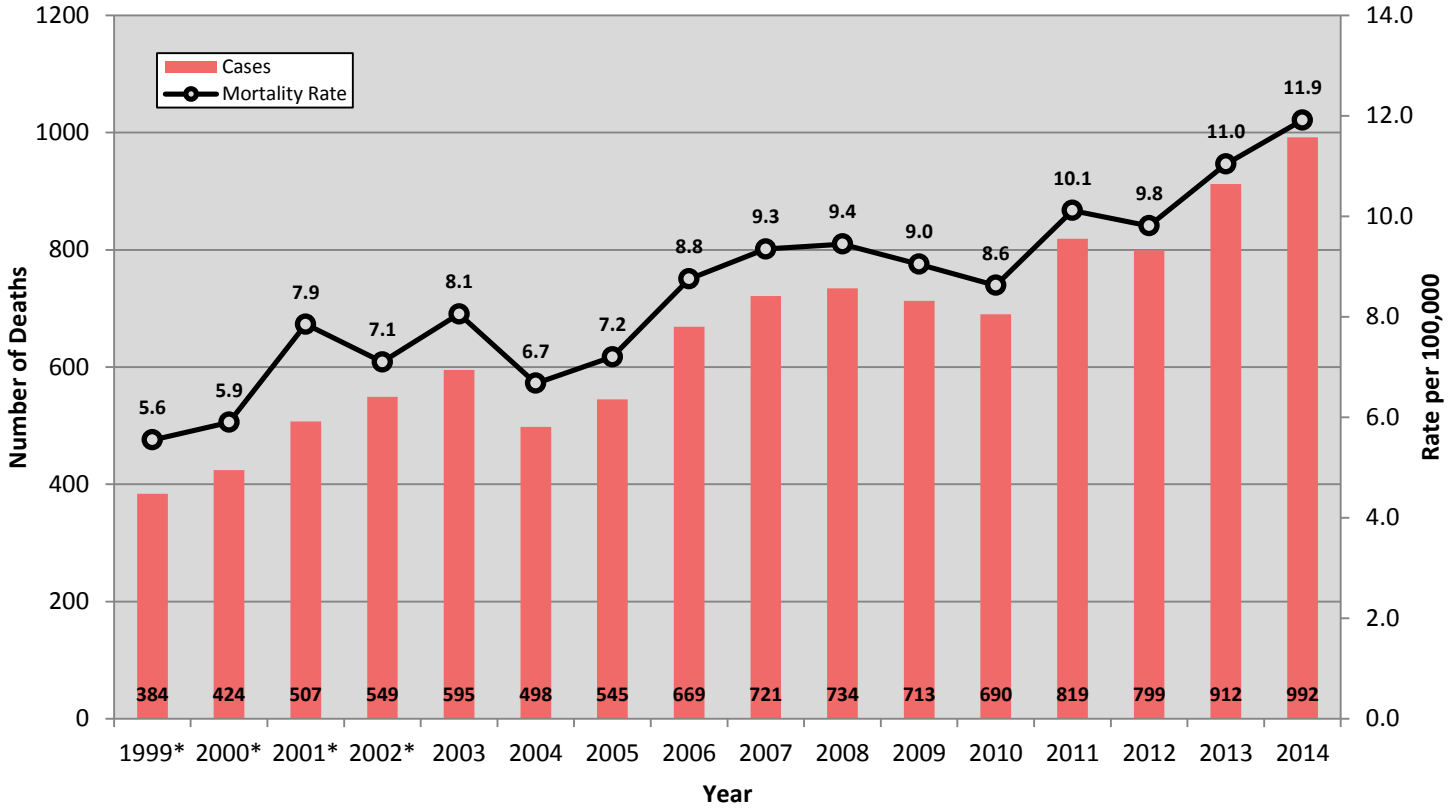
SECTION 5: DRUG/POISON DEATHS (N=992)

TOTAL DRUG/POISON DEATHS (N=992)

The overall number of drug/poisoning in 2014 cases increased by 8.8% compared to 2013.

- The overall rate of drug/poison deaths occurring in Virginia was 11.9 per 100,000 persons
- The majority of cases were accidents (79.7%), males (61.4%), whites (83.5%), and 35-44 year olds (25.9%)
- The numbers of drug/poison deaths in 2014 were well distributed across all 4 district OCME offices. Prior to 2013, the Western OCME managed about 1/3 of all drug/poison deaths in the state which were mostly due to opioid prescription drugs.

Figure 5.1 Number and Rate of Fatal Drug/Poison Overdoses by Year of Death, 1999-2014



*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 Number and Percentage of Fatal Drug/Poison Overdoses by OCME District, 2014

OCME District	OCME Cases	Percentage
Central	244	24.6%
Northern	266	26.8%
Tidewater	207	20.9%
Western	275	27.7%
TOTAL	992	100.0%

Figure 5.2 Percentage of Fatal Drug/Poison Overdoses by Manner of Death, 2014

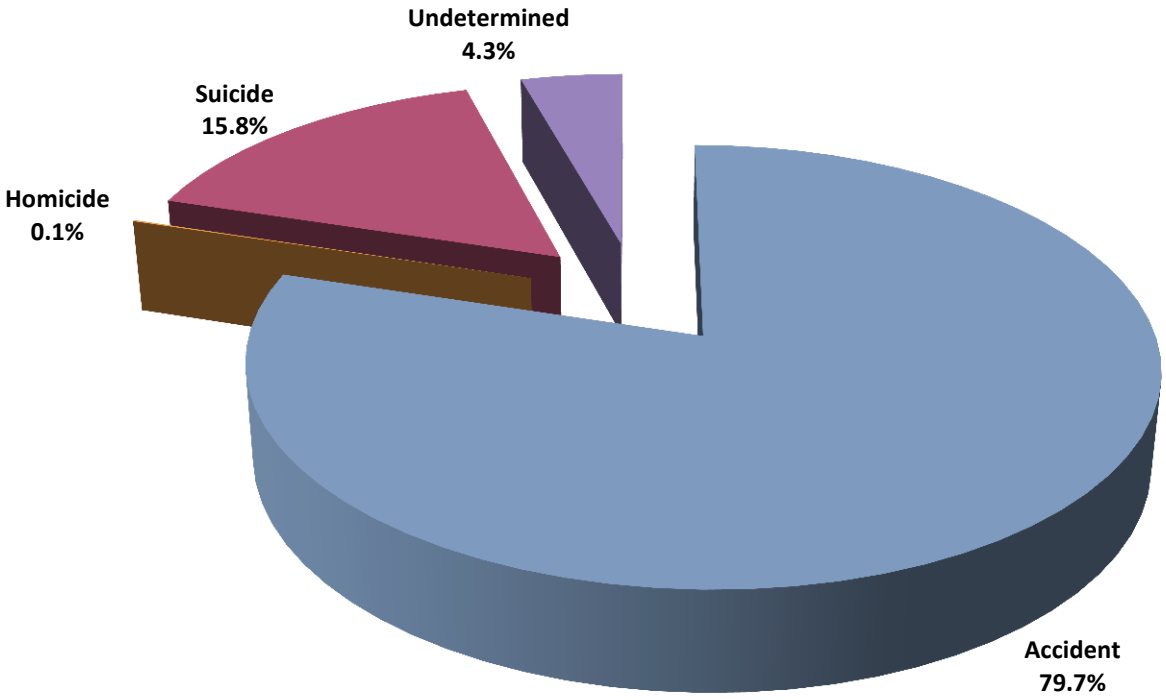
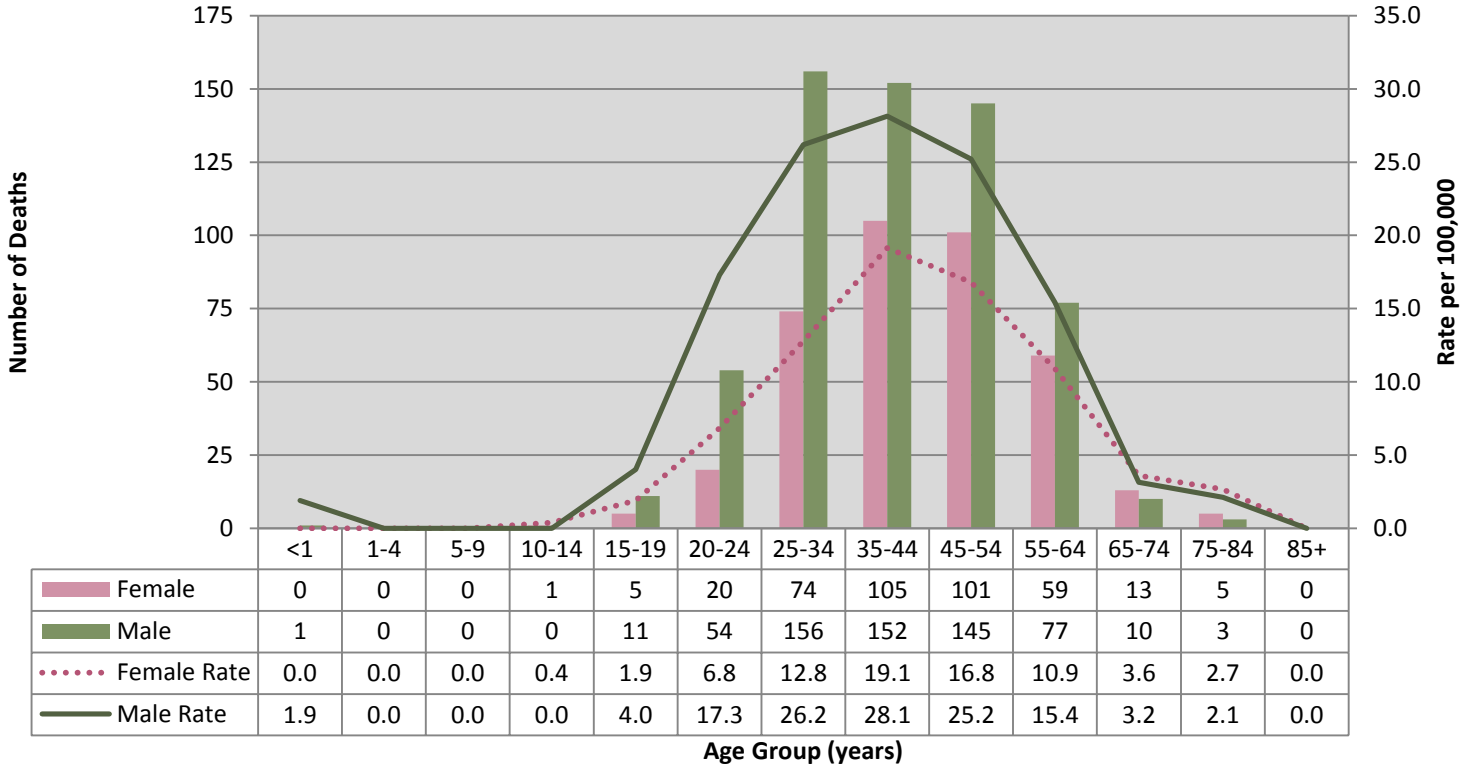


Figure 5.3 Number and Rate of Fatal Drug/Poison Overdoses by Age Group and Gender, 2014



	<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	1	5	20	74	105	101	59	13	5	0
Male	1	0	0	0	11	54	156	152	145	77	10	3	0
Female Rate	0.0	0.0	0.0	0.4	1.9	6.8	12.8	19.1	16.8	10.9	3.6	2.7	0.0
Male Rate	1.9	0.0	0.0	0.0	4.0	17.3	26.2	28.1	25.2	15.4	3.2	2.1	0.0

Table 5.2 Number of Fatal Drug/Poison Overdoses by Age Group and Manner of Death, 2014

Age Group (years)	Accident	Homicide	Suicide	Undetermined	Total
<1	0	0	0	1	**1**
1-4	0	0	0	0	**0**
5-9	0	0	0	0	**0**
10-14	0	0	1	0	**1**
15-19	12	0	4	0	**16**
20-24	63	0	10	1	**74**
25-34	210	0	18	2	**230**
35-44	208	0	37	12	**257**
45-54	186	0	46	14	**246**
55-64	99	0	28	9	**136**
65-74	12	0	7	4	**23**
75-84	1	1	6	0	**8**
85+	0	0	0	0	**0**
TOTAL	**791**	**1**	**157**	**43**	**992**

Figure 5.4 Percentage of Fatal Drug/Poison Overdoses by Race/Ethnicity, 2014

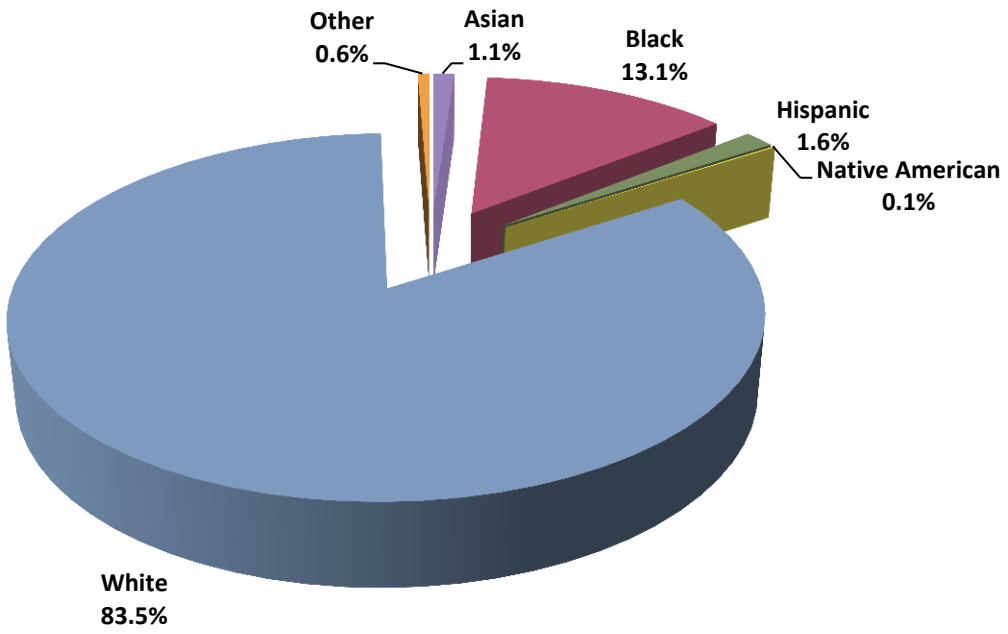
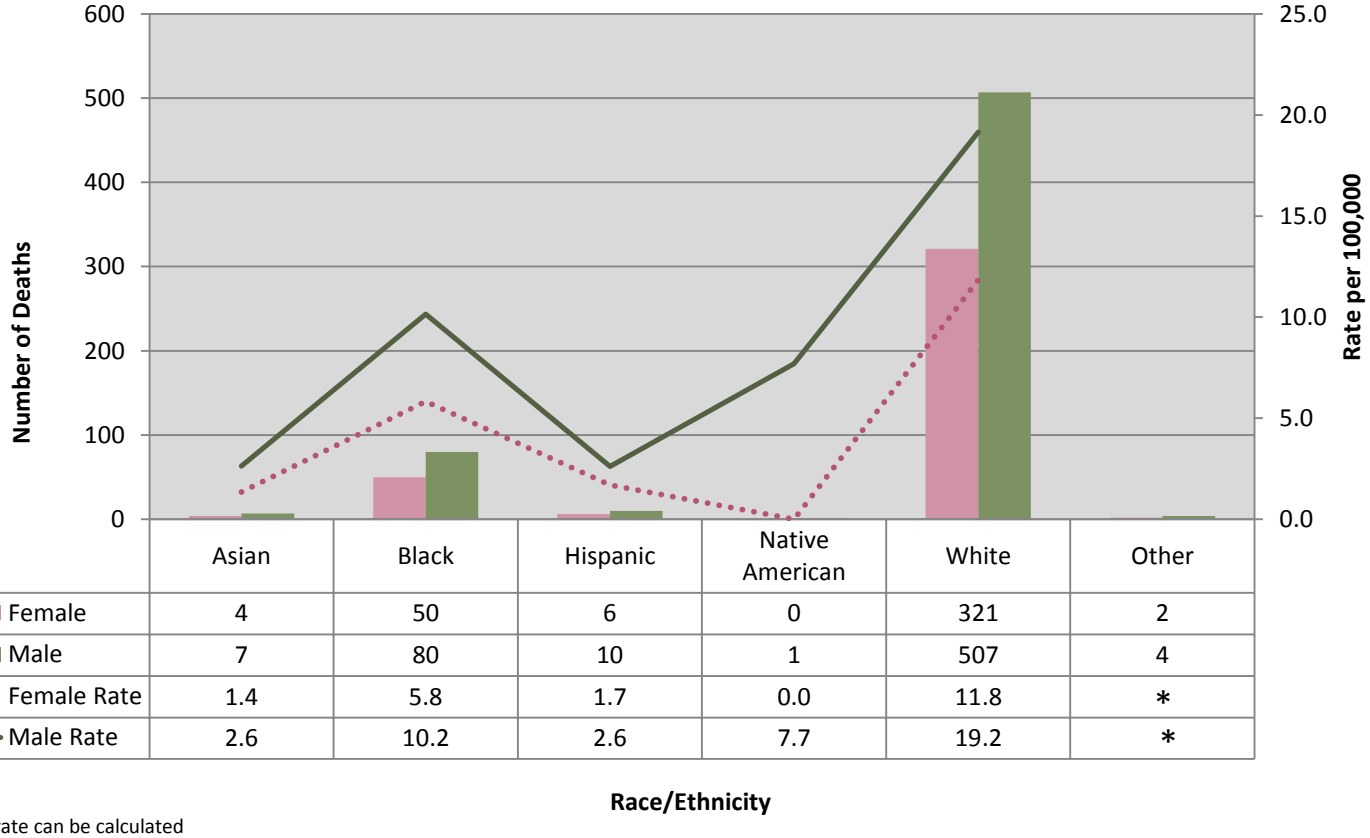


Figure 5.5 Number and Rate of Fatal Drug/Poison Overdoses by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	4	50	6	0	321	2
Male	7	80	10	1	507	4
Female Rate	1.4	5.8	1.7	0.0	11.8	*
Male Rate	2.6	10.2	2.6	7.7	19.2	*

*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

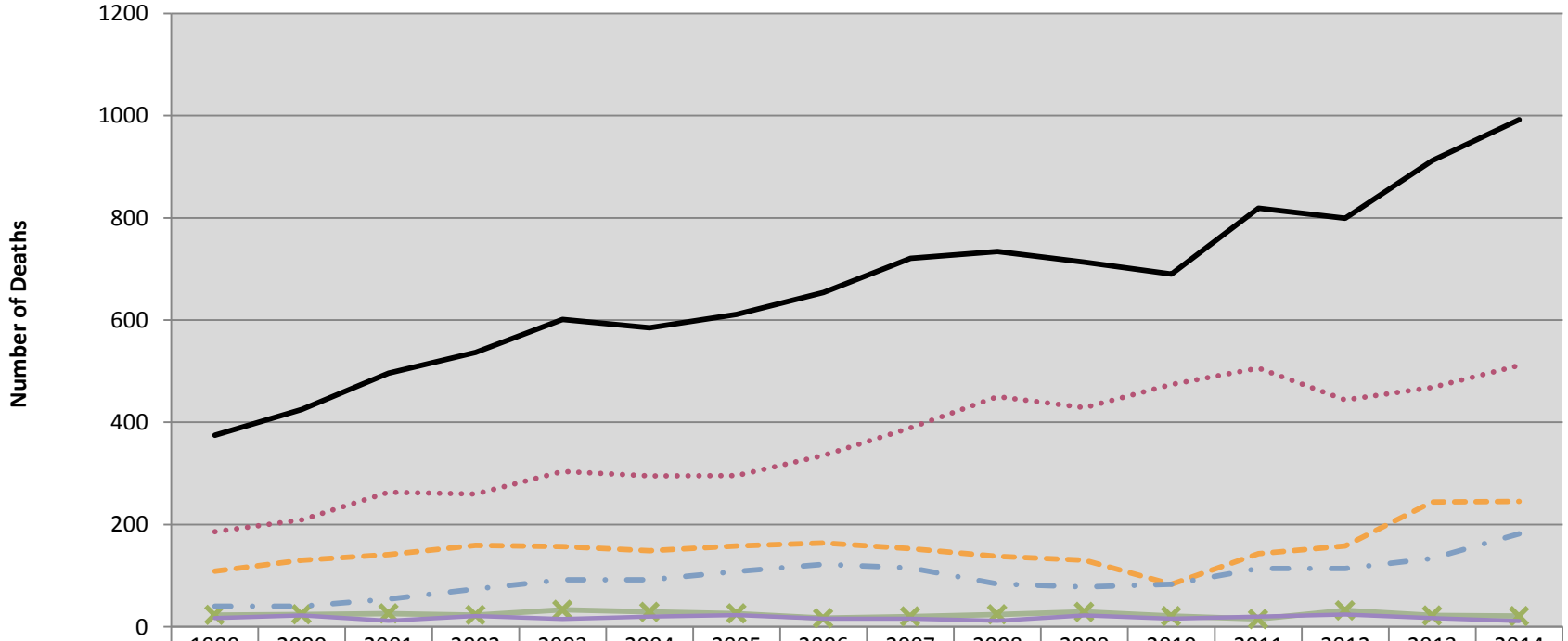
Table 5.3 Number of Fatal Drug/Poison Overdoses by OCME District and Cause of Death, 2014

Cause of Death	Central	Northern	Tidewater	Western	Total
Prescription drug poisoning	108	112	86	205	**511**
Illegal (street) drug poisoning	87	64	59	35	**245**
Mixed drug category	27	83	48	24	**182**
Ethanol poisoning	9	3	4	5	**21**
OTC poisoning	3	1	5	2	**11**
Drug type not specified	5	1	3	0	**9**
Inhalant poisoning	2	2	1	2	**7**
Ethylene glycol poisoning	1	0	1	1	**3**
Other poisons (heavy metals, etc.)	2	0	0	1	**3**
TOTAL	**244**	**266**	**207**	**275**	**992**

Table 5.4 Number of Fatal Drug/Poison Overdoses Manner and Cause of Death, 2014

Cause of Death	Accident	Homicide	Suicide	Undetermined	Total
Prescription drug poisoning	359	0	124	28	**511**
Illegal (street) drug poisoning	243	0	0	2	**245**
Mixed drug category	153	0	21	8	**182**
Ethanol poisoning	18	0	1	2	**21**
OTC poisoning	1	0	8	2	**11**
Drug type not specified	8	0	1	0	**9**
Inhalant poisoning	7	0	0	0	**7**
Ethylene glycol poisoning	0	1	1	1	**3**
Other poisons (heavy metals, etc.)	2	0	1	0	**3**
TOTAL	**791**	**1**	**157**	**43**	**992**

Figure 5.6 Number of Fatal Drug/Poison Overdoses by Drug Category and Year of Death, 1999-2014



	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Ethanol	23	24	26	23	33	29	26	17	20	24	29	21	15	32	22	21
Illegal	109	130	141	159	157	149	158	164	153	138	130	83	143	158	244	245
Mixed	40	40	54	74	92	92	108	122	115	84	78	83	114	114	134	182
OTC	17	22	12	21	15	20	23	16	16	12	22	16	20	24	17	11
Prescription	186	209	263	260	304	295	296	335	389	450	429	474	506	444	468	511
All Drug Deaths	375	425	496	537	601	585	611	654	721	734	713	690	819	799	912	992

Year

Note: Inhalant, ethylene glycol, not specified poisonings, and other poisoning deaths were excluded from this analysis due to low annual case counts (<20 deaths/year)

Figure 5.7 Number of Fatal Drug/Poison Overdoses by Drug Category and Gender, 2014

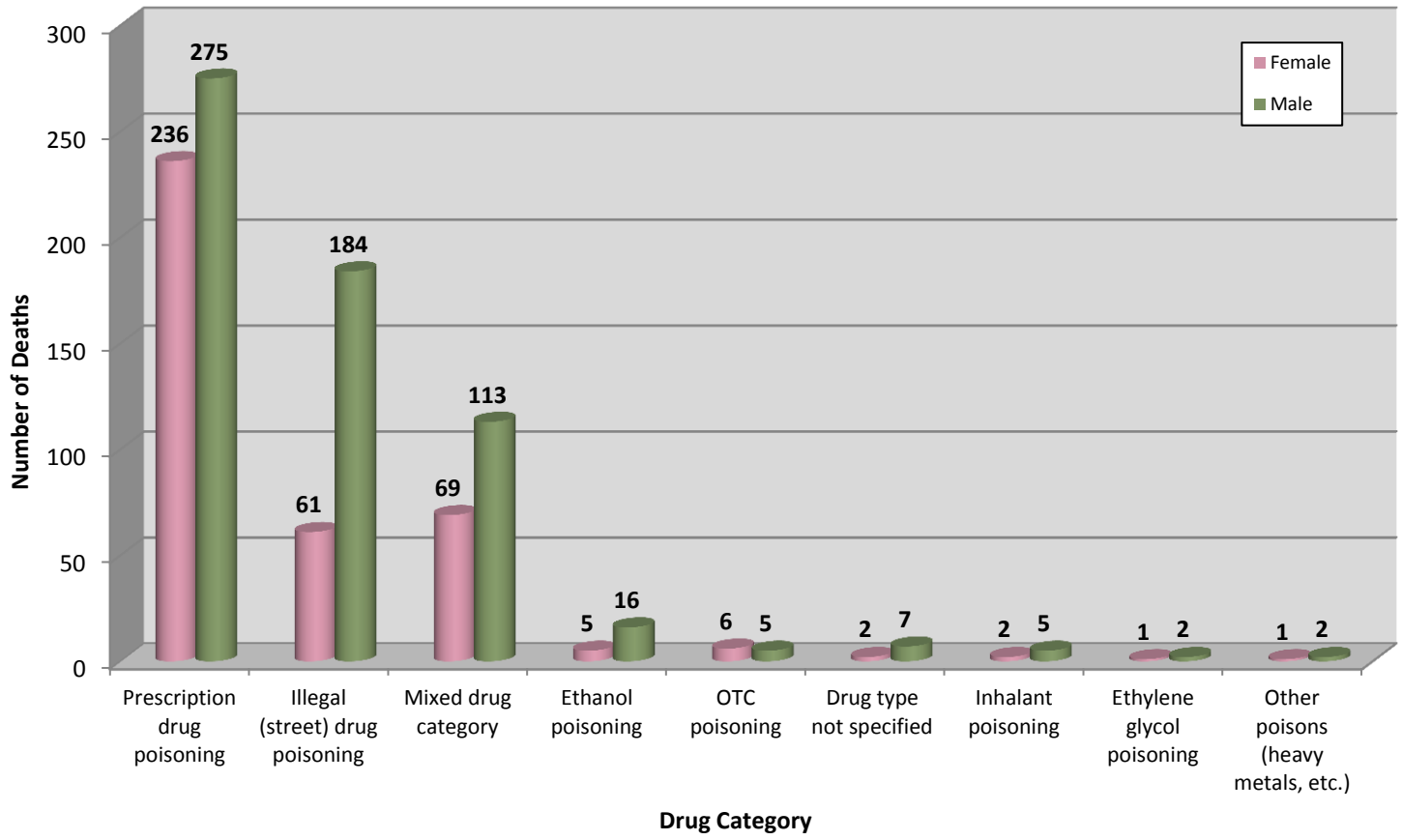
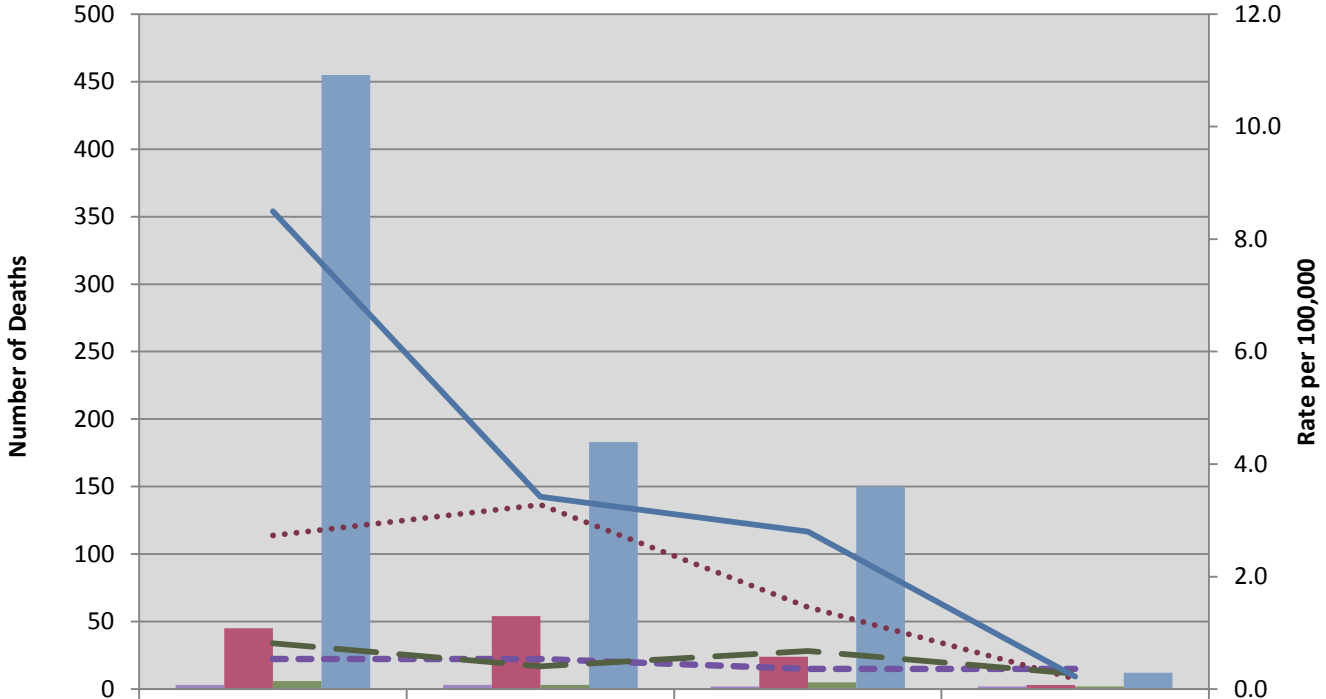


Figure 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Drug Category and Race/Ethnicity, 2014

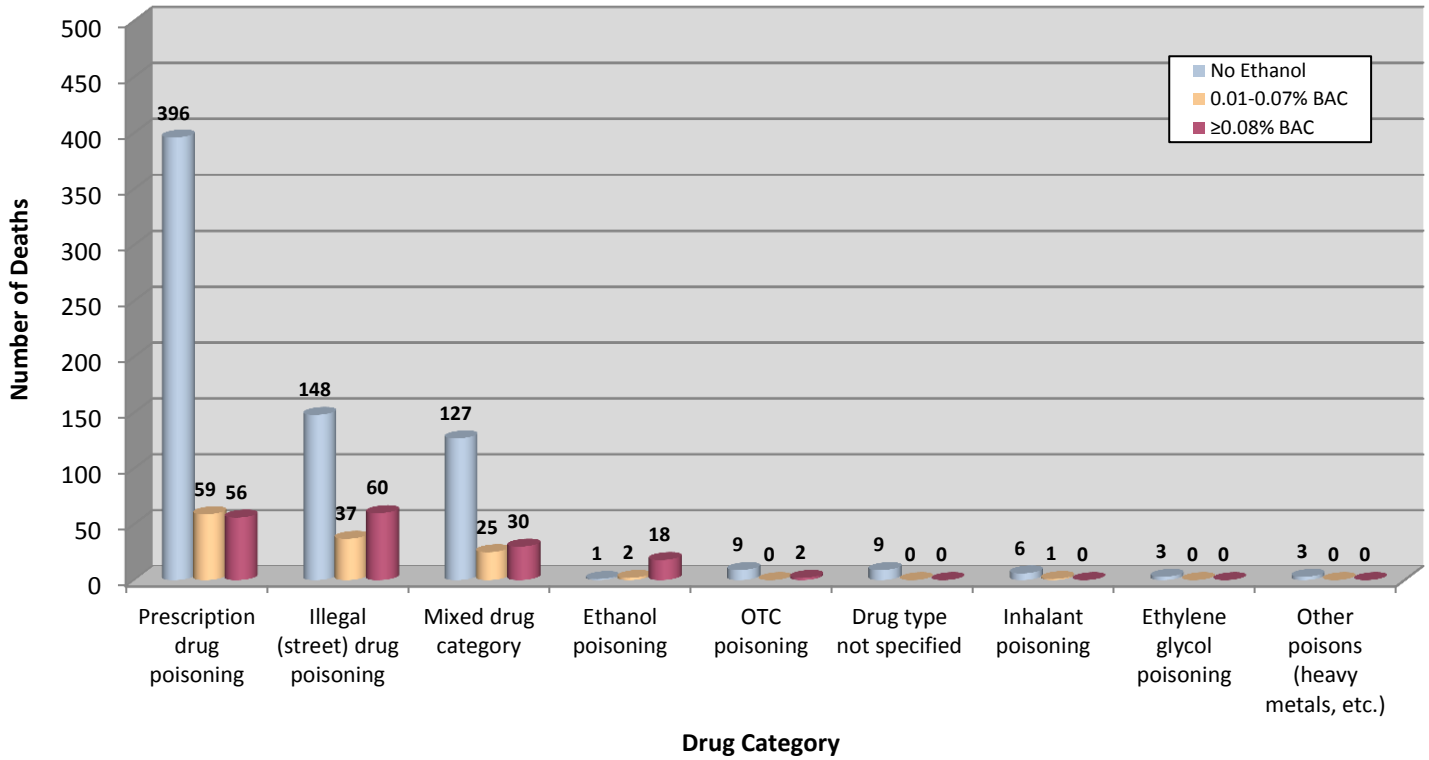


	Prescription Drug(s)	Illegal Drug(s)	Mixed Drugs	Ethanol Poisoning
Asian	3	3	2	2
Black	45	54	24	3
Hispanic	6	3	5	2
White	455	183	150	12
Asian Rate	0.5	0.5	0.4	0.4
Black Rate	2.7	3.3	1.5	0.2
Hispanic Rate	0.8	0.4	0.7	0.3
White Rate	8.5	3.4	2.8	0.2

Drug Category

*Native American and Other race/ethnicity groups were excluded due to low case counts (<20 fatalities).

Figure 5.9 Number of Fatal Drug/Poison Overdoses by Drug Category and Ethanol Level, 2014



*Ethanol Poisoning deaths listed as 'no ethanol' detected and '0.01-0.07% BAC' were due to toxicology timing issues regarding metabolization of ethanol

Table 5.5 Number of Fatal Drug/Poison Overdoses by Cause of Death and Whether Alcohol Caused Death, 2014

	Whether Alcohol Caused Death			
Cause of Death	**Yes**	**Contributed**	**No**	**Total**
Prescription drug poisoning	61	9	441	**511**
Illegal (street) drug poisoning	46	8	191	**245**
Mixed drug category	36	3	143	**182**
Ethanol poisoning	21	0	0	**21**
OTC poisoning	1	0	10	**11**
Drug type not specified	0	0	9	**9**
Inhalant poisoning	0	0	7	**7**
Ethylene glycol poisoning	0	0	3	**3**
Other poisons (heavy metals, etc.)	0	0	3	**3**
TOTAL	**165**	**20**	**807**	**992**

Figure 5.10 Number of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolites Detected, 2014

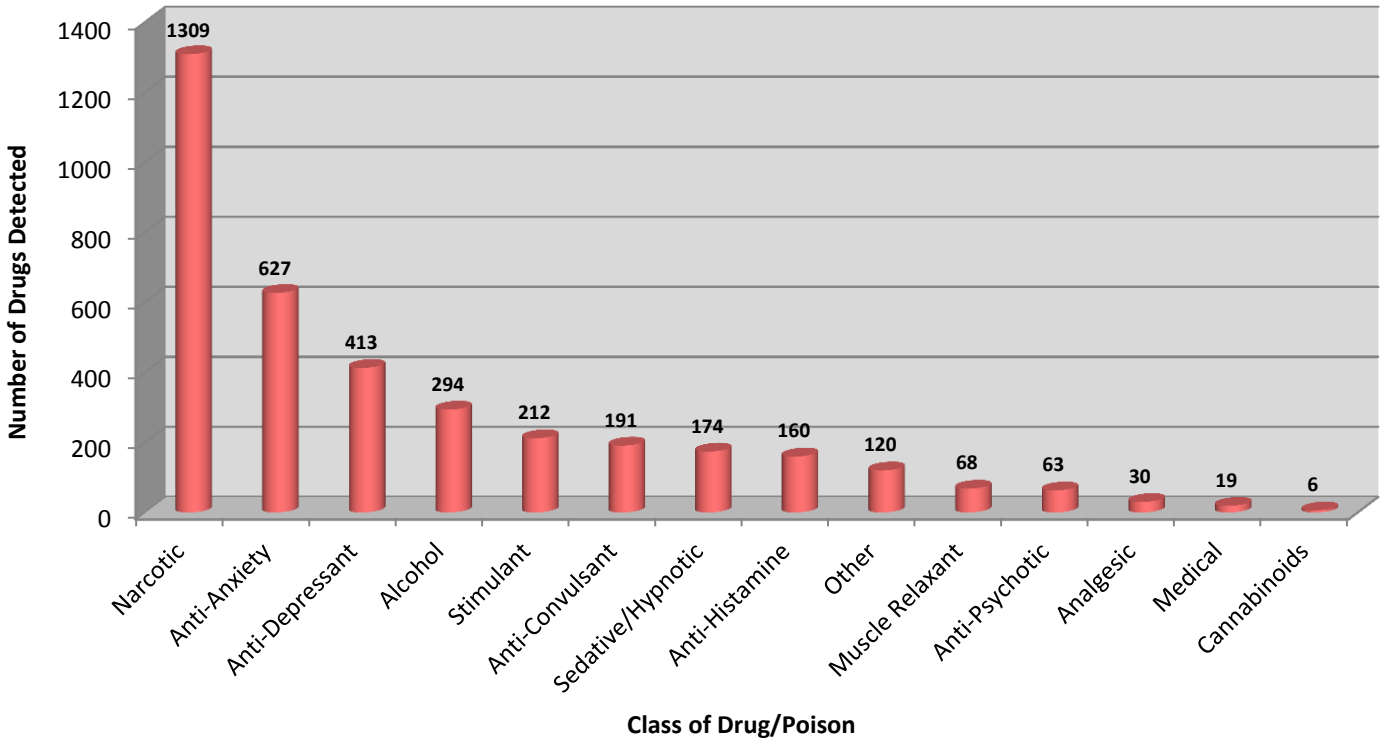


Table 5.6 Number and Percentage of Fatal Drug/Poison Overdoses by Drug/Poison/Metabolite Detected, 2014

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			**8.0%**
	Acetone	2	0.1%
	Ethanol	290	7.9%
	Isobutanol	1	0.0%
	Isopropanol	1	0.0%
Analgesic			**0.8%**
	Acetaminophen	4	0.1%
	Buprenorphine	18	0.5%
	Ketamine	4	0.1%
	Pramoxine	1	0.0%
	Tapentadol	3	0.1%
Anti-Anxiety			**17.0%**
	Alprazolam	255	6.9%
	Buspirone	3	0.1%
	Chlordiazepoxide	7	0.2%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Diazepam	115	3.1%
	Estazolam	1	0.0%
	Etizolam	1	0.0%
	Flurazepam	4	0.1%
	Lorazepam	35	0.9%
	Meprobamate	20	0.5%
	Nordiazepam (Diazepam Metabolite)	138	3.7%
	Oxazepam	48	1.3%
Anti-Convulsant			**5.2%**
	Carbamazepine	5	0.1%
	Clonazepam	129	3.5%
	Gabapentin	14	0.4%
	Lamotrigine	12	0.3%
	Levetiracetam	4	0.1%
	Midazolam	7	0.2%
	Oxcarbazepine	2	0.1%
	Pentobarbital	5	0.1%
	Phenobarbital	3	0.1%
	Phenytoin	1	0.0%
	Pregabalin	2	0.1%
	Topiramate	3	0.1%
	Valproic Acid	3	0.1%
	Zonisamide	1	0.0%
Anti-Depressant			**11.2%**
	Amitriptyline	43	1.2%
	Bupropion	36	1.0%
	Citalopram	73	2.0%
	Desipramine	2	0.1%
	Doxepin	18	0.5%
	Duloxetine	1	0.0%
	Fluoxetine	56	1.5%
	Imipramine	1	0.0%
	Mirtazapine	26	0.7%
	Nortriptyline	45	1.2%
	Paroxetine	9	0.2%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Selegiline	1	0.0%
	Sertraline	22	0.6%
	Trazodone	54	1.5%
	Venlafaxine	26	0.7%
Anti-Histamine			**4.3%**
	Certirizine	1	0.0%
	Chlorpheniramine	17	0.5%
	Diphenhydramine	116	3.1%
	Doxylamine	23	0.6%
	Meclizine	3	0.1%
Anti-Psychotic			**1.7%**
	Clozapine	1	0.0%
	Hydroxzine	13	0.4%
	Loxapine	1	0.0%
	Olanzapine	13	0.4%
	Promazine	1	0.0%
	Quetiapine	34	0.9%
Cannabinoids			**0.2%**
	Tetrahydrocannabinol Carboxylic Acid (THC)	6	0.2%
Medical			**0.5%**
	Atropine	1	0.0%
	Benztropine	1	0.0%
	Diltiazem	6	0.2%
	Donepezil	1	0.0%
	Loperamide	1	0.0%
	Metoclopramide	2	0.1%
	Metoprolol	1	0.0%
	Verapamil	6	0.2%
Muscle Relaxant			**1.8%**
	Carisoprodol	17	0.5%
	Cyclobenzaprine	47	1.3%
	Metaxalone	1	0.0%
	Orphenadrine	2	0.1%
	Tizanidine	1	0.0%
Narcotic			**35.5%**

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	6-Acetylmorphine (Heroin Metabolite)	159	4.3%
	6-Monoacetylmorphine	7	0.2%
	Acetyl Fentanyl	3	0.1%
	Bupivacaine	2	0.1%
	Codeine	118	3.2%
	Fentanyl	133	3.6%
	Hydrocodone	96	2.6%
	Hydromorphone	32	0.9%
	Meperidine	2	0.1%
	Methadone	112	3.0%
	Morphine	322	8.7%
	Oxycodone	196	5.3%
	Oxymorphone	69	1.9%
	Tramadol	58	1.6%
Other			**3.3%**
	1,1-Difluoroethane	1	0.0%
	alpha-Pyrrolidinopentiophenone	2	0.1%
	Atomoxetine	1	0.0%
	Carboxyhemoglobin	12	0.3%
	Dextromethorphan	33	0.9%
	Dicyclomine	2	0.1%
	Difluoroethane	11	0.3%
	Ephedrine/Pseudoephedrine	6	0.2%
	Ethylene Glycol	3	0.1%
	Hydrochlorothiazide	1	0.0%
	Isobutane	1	0.0%
	Levamisole/Tetramisole	19	0.5%
	Lidocaine	19	0.5%
	Methoxetamine	1	0.0%
	Phendimetrazine	2	0.1%
	Phenylpropanolamine	1	0.0%
	Prochlorperazine	1	0.0%
	Propranolol	2	0.1%
	Salicylic Acid	2	0.1%
Sedative/Hypnotic			**4.7%**

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Butalbital	12	0.3%
	Promethazine	57	1.5%
	Propofol	1	0.0%
	Temazepam	57	1.5%
	Zaleplon	1	0.0%
	Zolpidem	42	1.1%
	Zopiclone	4	0.1%
Stimulant			**5.8%**
	Amphetamine	34	0.9%
	Caffeine	1	0.0%
	Cocaethylene	42	1.1%
	Cocaine	94	2.6%
	MDMA/MDA/MDFA (Mixed Compounds)	11	0.3%
	Methamphetamine	21	0.6%
	Methyphenidate	3	0.1%
	Phencyclidine	5	0.1%
	Phentermine	1	0.0%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED		**3686**	**100.0%**

Figure 5.11 Number of Fatal Drug/Poison Overdoses by Class of Drug/Poison/Metabolite Detected that Caused or Contributed to Death, 2014

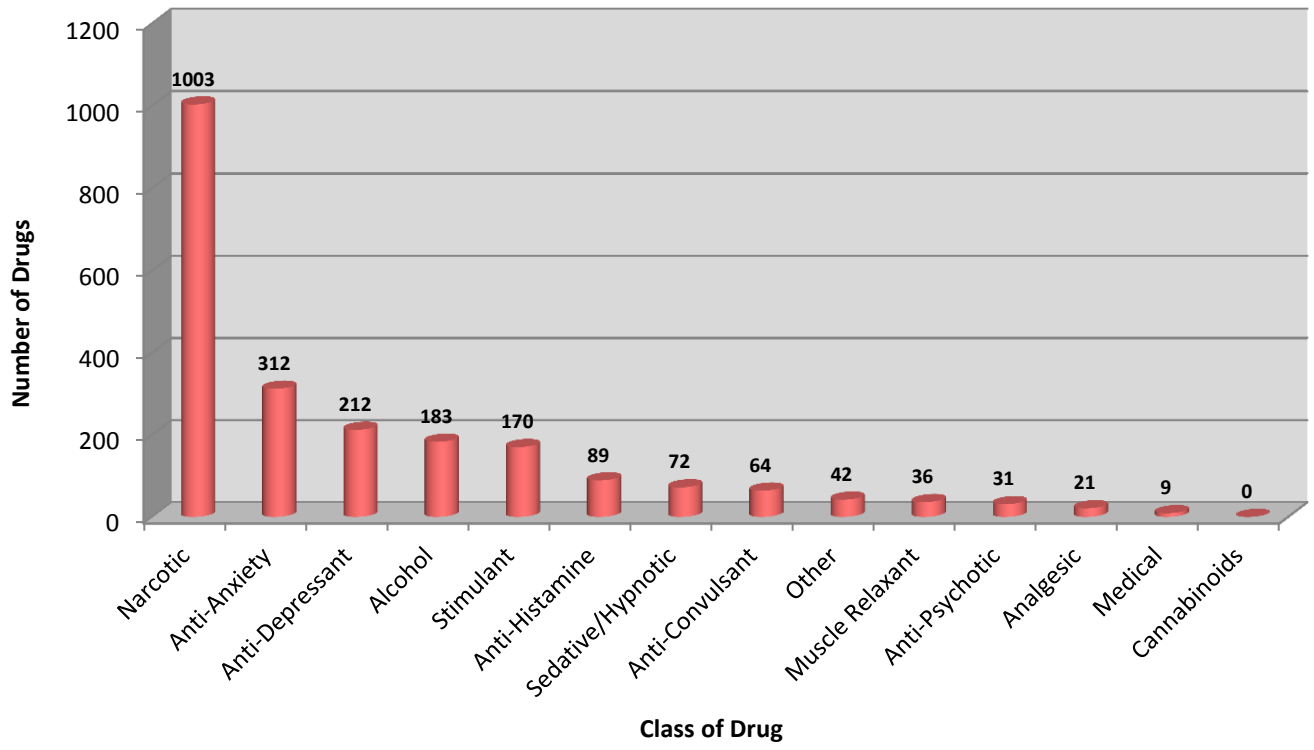


Table 5.7 Number of Fatal Drug/Poison Deaths by Drug/Poison/Metabolites Detected that Caused or Contributed to Death, 2014

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Alcohol			**8.2%**
	Acetone	0	0.0%
	Ethanol	182	8.1%
	Isobutanol	1	0.0%
	Isopropanol	0	0.0%
Analgesic			**0.9%**
	Acetaminophen	2	0.1%
	Buprenorphine	16	0.7%
	Ketamine	2	0.1%
	Pramoxine	0	0.0%
	Tapentadol	1	0.0%
Anti-Anxiety			**13.9%**
	Alprazolam	166	7.4%
	Buspirone	0	0.0%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Chlordiazepoxide	4	0.2%
	Diazepam	55	2.5%
	Estazolam	0	0.0%
	Etizolam	0	0.0%
	Flurazepam	3	0.1%
	Lorazepam	17	0.8%
	Meprobamate	8	0.4%
	Nordiazepam (Diazepam Metabolite)	47	2.1%
	Oxazepam	12	0.5%
Anti-Convulsant			**2.9%**
	Carbamazepine	1	0.0%
	Clonazepam	35	1.6%
	Gabapentin	9	0.4%
	Lamotrigine	3	0.1%
	Levetiracetam	2	0.1%
	Midazolam	0	0.0%
	Oxcarbazepine	0	0.0%
	Pentobarbital	4	0.2%
	Phenobarbital	3	0.1%
	Phenytoin	1	0.0%
	Pregabalin	2	0.1%
	Topiramate	2	0.1%
	Valproic Acid	2	0.1%
	Zonisamide	0	0.0%
Anti-Depressant			**9.4%**
	Amitriptyline	26	1.2%
	Bupropion (Wellbutrin)	17	0.8%
	Citalopram	38	1.7%
	Desipramine	2	0.1%
	Doxepin	11	0.5%
	Duloxetine	0	0.0%
	Fluoxetine	34	1.5%
	Imipramine	1	0.0%
	Mirtazapine	10	0.4%
	Nortriptyline	25	1.1%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
	Paroxetine	3	0.1%
	Selegiline	0	0.0%
	Sertraline	10	0.4%
	Trazodone	22	1.0%
	Venlafaxine	13	0.6%
Anti-Histamine			**4.0%**
	Certirizine	1	0.0%
	Chlorpheniramine	8	0.4%
	Diphenhydramine	69	3.1%
	Doxylamine	11	0.5%
	Meclizine	0	0.0%
Anti-Psychotic			**1.4%**
	Clozapine	1	0.0%
	Hydroxzine	7	0.3%
	Loxapine	0	0.0%
	Olanzapine	6	0.3%
	Promazine	0	0.0%
	Quetiapine	17	0.8%
Cannabinoids			**0.0%**
	Tetrahydrocannabinol Carboxylic Acid (THC)	0	0.0%
Medical			**0.4%**
	Atropine	1	0.0%
	Benztropine	1	0.0%
	Diltiazem	0	0.0%
	Donepezil	0	0.0%
	Loperamide	1	0.0%
	Metoclopramide	1	0.0%
	Metoprolol	1	0.0%
	Verapamil	4	0.2%
Muscle Relaxant			**1.6%**
	Carisoprodol	8	0.4%
	Cyclobenzaprine	27	1.2%
	Metaxalone	1	0.0%
	Orphenadrine	0	0.0%
	Tizanidine	0	0.0%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Narcotic			**44.7%**
	6-Acetylmorphine (Heroin Metabolite)	99	4.4%
	6-Monoacetylmorphine	5	0.2%
	Acetyl Fentanyl	3	0.1%
	Bupivacaine	0	0.0%
	Codeine	32	1.4%
	Fentanyl	118	5.3%
	Hydrocodone	81	3.6%
	Hydromorphone	24	1.1%
	Meperidine	2	0.1%
	Methadone	102	4.5%
	Morphine	286	12.7%
	Oxycodone	164	7.3%
	Oxymorphone	47	2.1%
	Tramadol	40	1.8%
Other			**1.9%**
	1,1-Difluoroethane	1	0.0%
	alpha-Pyrrolidinopentiophenone	2	0.1%
	Atomoxetine	1	0.0%
	Carboxyhemoglobin	0	0.0%
	Dextromethorphan	14	0.6%
	Dicyclomine	0	0.0%
	Difluoroethane	10	0.4%
	Ephedrine/Pseudoephedrine	1	0.0%
	Ethylene Glycol	3	0.1%
	Hydrochlorothiazide	1	0.0%
	Isobutane	1	0.0%
	Levamisole/Tetramisole	2	0.1%
	Lidocaine	2	0.1%
	Methoxetamine	1	0.0%
	Phendimetrazine	0	0.0%
	Phenylpropanolamine	0	0.0%
	Prochlorperazine	0	0.0%
	Propranolol	2	0.1%
	Salicylic Acid	1	0.0%

Class	Drug/Poison/Active Metabolite	Number Detected	Percentage of Cases
Sedative/Hypnotic			**3.2%**
	Butalbital	7	0.3%
	Promethazine	25	1.1%
	Propofol	0	0.0%
	Temazepam	19	0.8%
	Zaleplon	0	0.0%
	Zolpidem	17	0.8%
	Zopiclone	4	0.2%
Stimulant			**7.6%**
	Amphetamine	24	1.1%
	Caffeine	0	0.0%
	Cocaethylene	35	1.6%
	Cocaine	82	3.7%
	MDMA/MDA/MDFA (Mixed Compounds)	6	0.3%
	Methamphetamine	18	0.8%
	Methyphenidate	1	0.0%
	Phencyclidine	4	0.2%
	Phentermine	0	0.0%
TOTAL DRUG/POISON/ACTIVE METABOLITES DETECTED		**2244**	**100.0%**

Table 5.8 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	8	24.2
Albemarle County	7	6.7
Alexandria City	11	7.3
Alleghany County	3	19.0
Amelia County	2	15.6
Amherst County	4	12.5
Appomattox County	1	6.5
Arlington County	13	5.7
Augusta County	10	13.5
Bath County	0	0.0
Bedford County	5	6.5
Bland County	1	15.1
Botetourt County	4	12.1
Bristol City	5	29.1
Brunswick County	0	0.0
Buchanan County	10	43.3
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	7	12.8
Caroline County	3	10.1
Carroll County	11	37.1
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	4	8.8
Chesapeake City	25	10.7
Chesterfield County	31	9.3
Clarke County	2	13.9
Colonial Heights City	2	11.3
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	13	26.4
Cumberland County	0	0.0
Danville City	11	25.9
Dickenson County	6	39.2

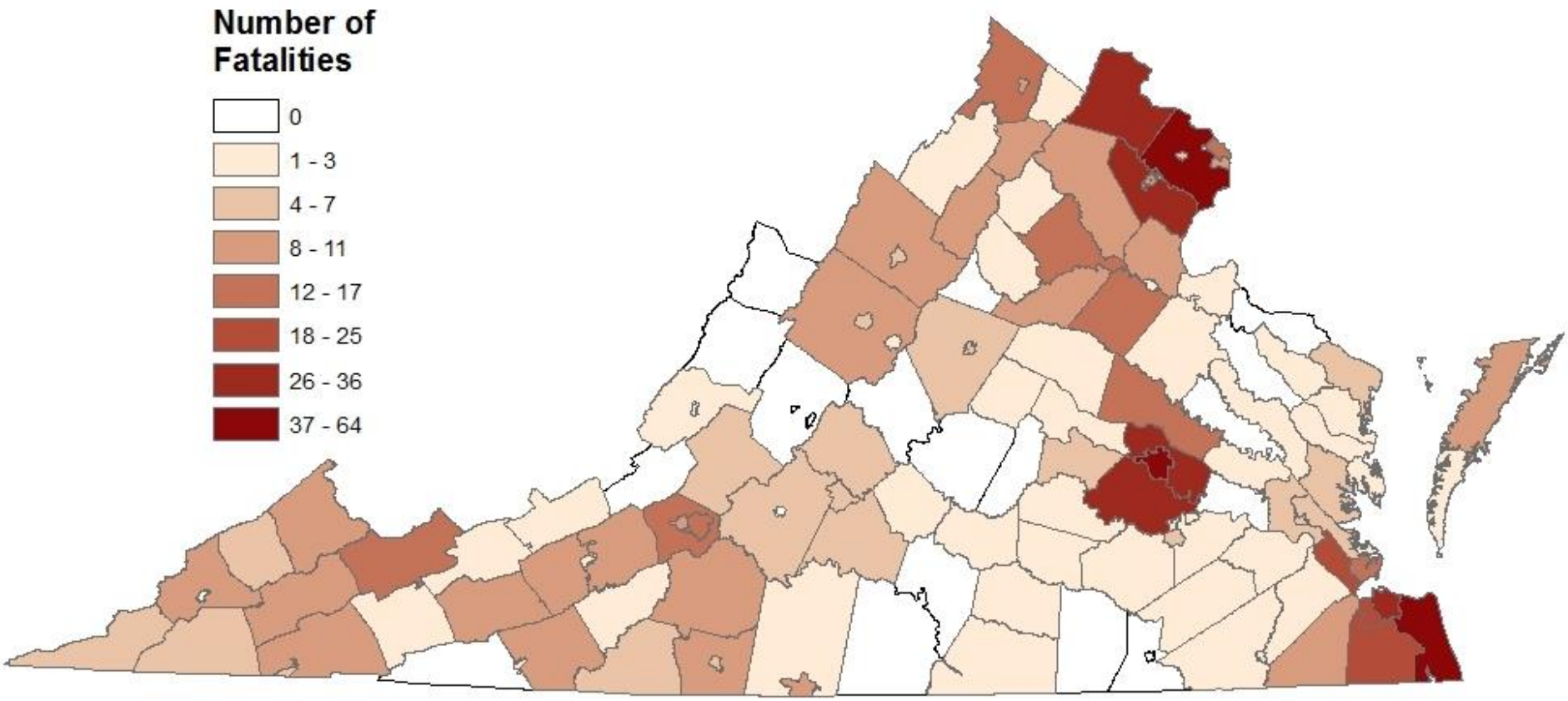
Locality of Residence	Total Cases	Rate
Dinwiddie County	1	3.6
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	5	20.4
Fairfax County	64	5.6
Falls Church City	0	0.0
Fauquier County	10	14.7
Floyd County	2	12.8
Fluvanna County	2	7.7
Franklin City	1	11.7
Franklin County	9	16.0
Frederick County	16	19.4
Fredericksburg City	2	7.1
Galax City	1	14.3
Giles County	3	17.8
Gloucester County	6	16.2
Goochland County	3	13.7
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	13	9.5
Hanover County	14	13.7
Harrisonburg City	4	7.6
Henrico County	33	10.3
Henry County	10	19.2
Highland County	0	0.0
Hopewell City	2	9.0
Isle of Wight County	3	8.3
James City County	4	5.5
King and Queen County	1	13.9
King George County	3	11.8
King William County	0	0.0
Lancaster County	2	18.1

Locality of Residence	Total Cases	Rate
Lee County	6	24.0
Lexington City	0	0.0
Loudoun County	30	8.3
Louisa County	2	5.8
Lunenburg County	2	16.0
Lynchburg City	4	5.1
Madison County	1	7.6
Manassas	9	21.4
Manassas Park	1	6.6
Martinsville City	4	29.2
Mathews County	1	11.3
Mecklenburg County	2	6.4
Middlesex County	1	9.3
Montgomery County	11	11.3
Nelson County	0	0.0
New Kent County	2	10.0
Newport News City	24	13.1
Norfolk City	32	13.0
Northampton County	2	16.5
Northumberland County	4	32.7
Norton City	0	0.0
Nottoway County	2	12.8
Orange County	11	31.4
Page County	8	33.5
Patrick County	4	21.9
Petersburg City	4	12.2
Pittsylvania County	3	4.8
Poquoson City	1	8.3
Portsmouth City	20	20.8
Powhatan County	6	21.1
Prince Edward County	1	4.3
Prince George County	3	8.0
Prince William County	36	8.1
Pulaski County	8	23.3
Radford City	1	5.7

Locality of Residence	Total Cases	Rate
Rappahannock County	2	27.2
Richmond City	49	22.5
Richmond County	1	11.2
Roanoke City	15	15.1
Roanoke County	17	18.1
Rockbridge County	0	0.0
Rockingham County	8	10.2
Russell County	11	39.3
Salem City	9	35.3
Scott County	4	17.9
Shenandoah County	3	7.0
Smyth County	3	9.5
Southampton County	1	5.5
Spotsylvania County	15	11.6
Stafford County	10	7.1
Staunton City	4	16.3
Suffolk City	10	11.5
Surry County	1	14.7
Sussex County	1	8.5
Tazewell County	17	39.1
Virginia Beach City	52	11.5
Warren County	8	20.5
Washington County	9	16.4
Waynesboro City	3	14.0
Westmoreland County	0	0.0
Williamsburg City	5	34.0
Winchester City	8	29.0
Wise County	9	22.5
Wythe County	10	34.3
York County	7	10.6
Subtotal (in-state)	**951**	**11.4**
Out of State	35	ND
Unknown	6	ND
Subtotal (out-of-state)	**41**	**ND**
TOTAL	**992**	**11.9**

Note: No denominator is represented by ND

Map 5.1 Number of Fatal Drug/Poison Overdoses by Locality of Residence, 2014



Map 5.2 Rates of Fatal Drug/Poison Overdoses by Locality of Residence, 2014

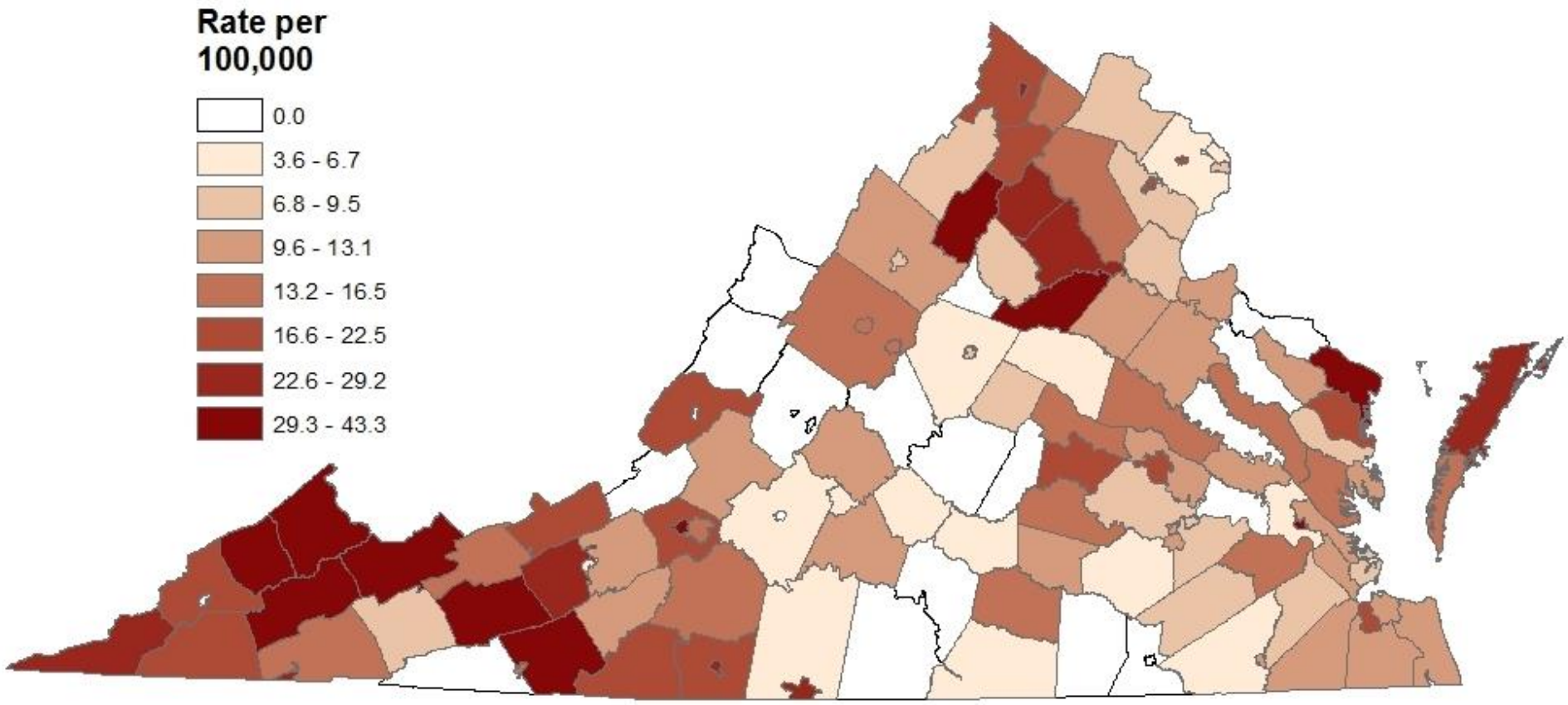


Table 5.9 Number and Rate of Fatal Drug/Poison Overdoses by Locality of Injury, 2014

Locality of Injury	Total Cases	Rate
Accomack County	8	24.2
Albemarle County	7	6.7
Alexandria City	14	9.3
Alleghany County	1	6.3
Amelia County	2	15.6
Amherst County	3	9.4
Appomattox County	1	6.5
Arlington County	17	7.5
Augusta County	10	13.5
Bath County	0	0.0
Bedford County	6	7.8
Bland County	1	15.1
Botetourt County	4	12.1
Bristol City	6	34.9
Brunswick County	0	0.0
Buchanan County	11	47.6
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	5	9.1
Caroline County	4	13.4
Carroll County	13	43.9
Charles City County	1	14.2
Charlotte County	0	0.0
Charlottesville City	6	13.2
Chesapeake City	33	14.1
Chesterfield County	31	9.3
Clarke County	2	13.9
Colonial Heights City	2	11.3
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	11	22.4
Cumberland County	0	0.0
Danville City	14	33.0
Dickenson County	6	39.2
Dinwiddie County	1	3.6

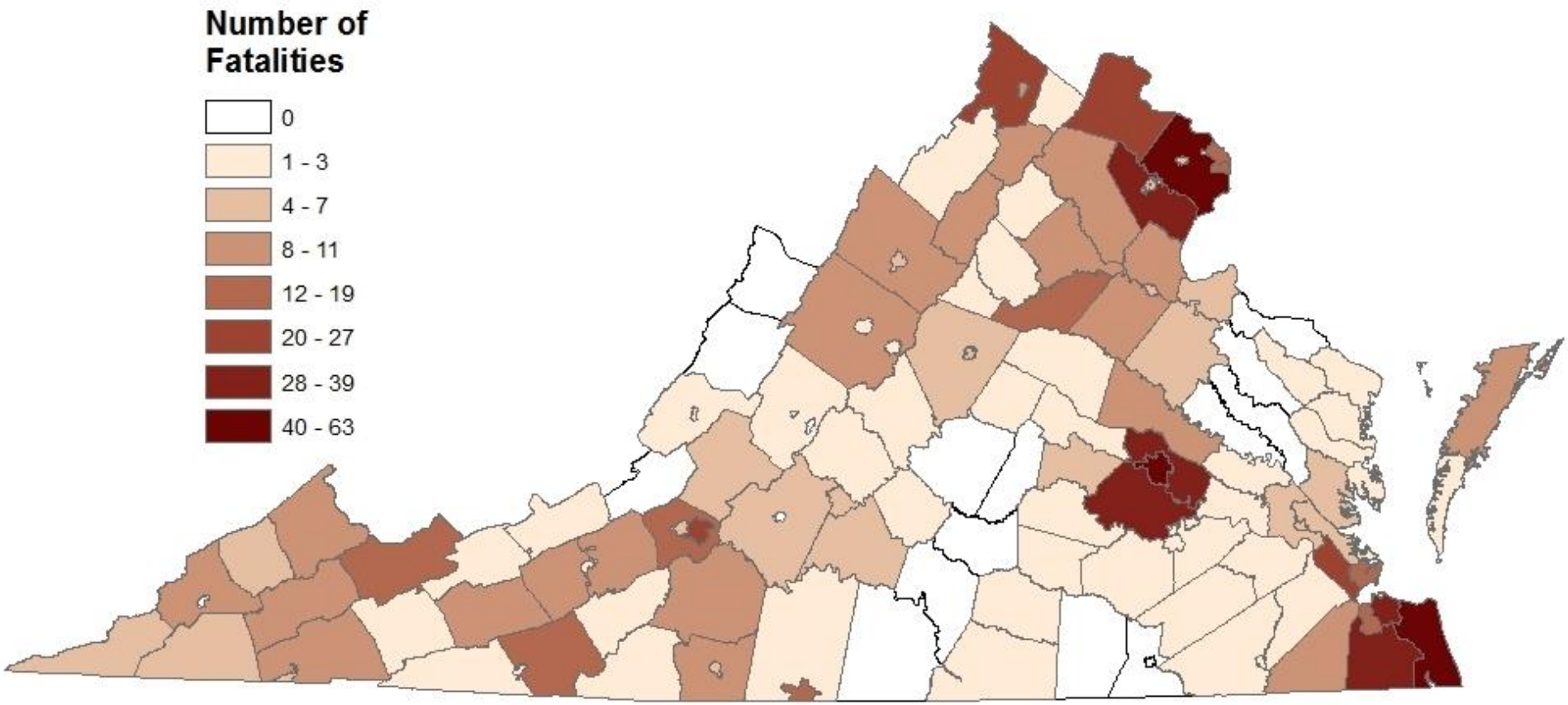
Locality of Injury	Total Cases	Rate
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	5	20.4
Fairfax County	63	5.5
Falls Church City	1	7.4
Fauquier County	11	16.1
Floyd County	2	12.8
Fluvanna County	1	3.8
Franklin City	1	11.7
Franklin County	8	14.2
Frederick County	22	26.7
Fredericksburg City	4	14.1
Galax City	1	14.3
Giles County	3	17.8
Gloucester County	5	13.5
Goochland County	2	9.1
Grayson County	1	6.6
Greene County	1	5.3
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	13	9.5
Hanover County	11	10.8
Harrisonburg City	6	11.4
Henrico County	37	11.5
Henry County	11	21.1
Highland County	0	0.0
Hopewell City	2	9.0
Isle of Wight County	2	5.6
James City County	4	5.5
King and Queen County	0	0.0
King George County	5	19.7
King William County	0	0.0
Lancaster County	1	9.1
Lee County	6	24.0
Lexington City	0	0.0

Locality of Injury	Total Cases	Rate
Loudoun County	27	7.4
Louisa County	3	8.7
Lunenburg County	1	8.0
Lynchburg City	5	6.3
Madison County	1	7.6
Manassas	7	16.6
Manassas Park	3	19.8
Martinsville City	5	36.5
Mathews County	2	22.6
Mecklenburg County	3	9.6
Middlesex County	1	9.3
Montgomery County	10	10.3
Nelson County	1	6.7
New Kent County	2	10.0
Newport News City	25	13.7
Norfolk City	30	12.2
Northampton County	2	16.5
Northumberland County	3	24.5
Norton City	0	0.0
Nottoway County	3	19.3
Orange County	13	37.1
Page County	8	33.5
Patrick County	3	16.4
Petersburg City	3	9.2
Pittsylvania County	2	3.2
Poquoson City	1	8.3
Portsmouth City	19	19.8
Powhatan County	4	14.1
Prince Edward County	0	0.0
Prince George County	2	5.4
Prince William County	39	8.7
Pulaski County	9	26.2
Radford City	1	5.7
Rappahannock County	2	27.2
Richmond City	57	26.2
Richmond County	1	11.2

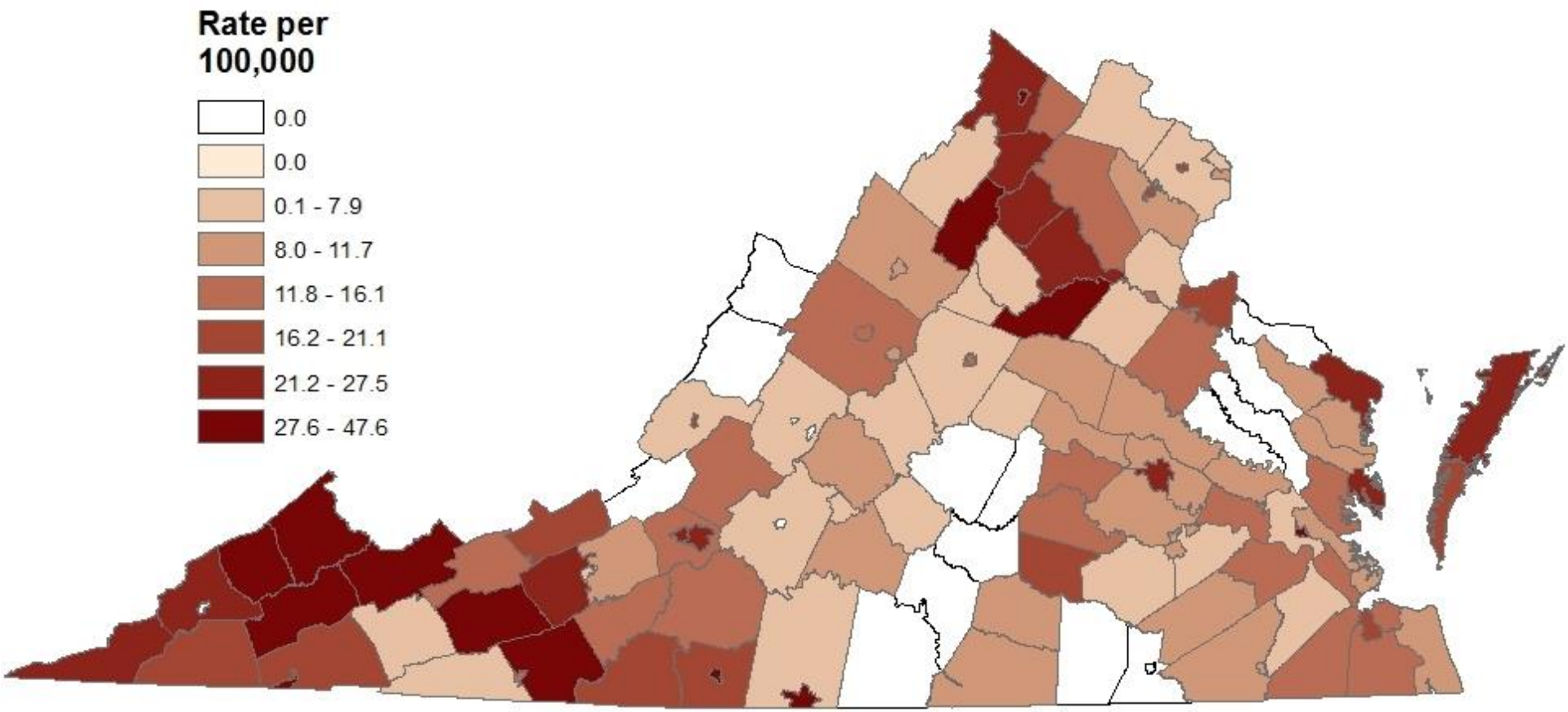
Locality of Injury	Total Cases	Rate
Roanoke City	22	22.1
Roanoke County	15	16.0
Rockbridge County	1	4.5
Rockingham County	8	10.2
Russell County	9	32.1
Salem City	7	27.5
Scott County	4	17.9
Shenandoah County	3	7.0
Smyth County	2	6.3
Southampton County	2	11.1
Spotsylvania County	10	7.7
Stafford County	11	7.9
Staunton City	3	12.2
Suffolk City	11	12.7
Surry County	1	14.7
Sussex County	1	8.5
Tazewell County	16	36.8
Virginia Beach City	50	11.1
Warren County	9	23.1
Washington County	10	18.3
Waynesboro City	2	9.4
Westmoreland County	0	0.0
Williamsburg City	5	34.0
Winchester City	9	32.7
Wise County	9	22.5
Wythe County	10	34.3
York County	7	10.6
Subtotal (in-state)	**985**	**11.8**
Out of State	4	ND
Unknown	3	ND
Subtotal (out-of-state)	**7**	**ND**
TOTAL	**992**	**11.9**

Note: No denominator is represented by ND

Map 5.3 Number of Fatal Drug/Poison Overdoses by Locality of Injury, 2014



Map 5.4 Rates of Fatal Drug/Poison Overdoses by Locality of Injury, 2014

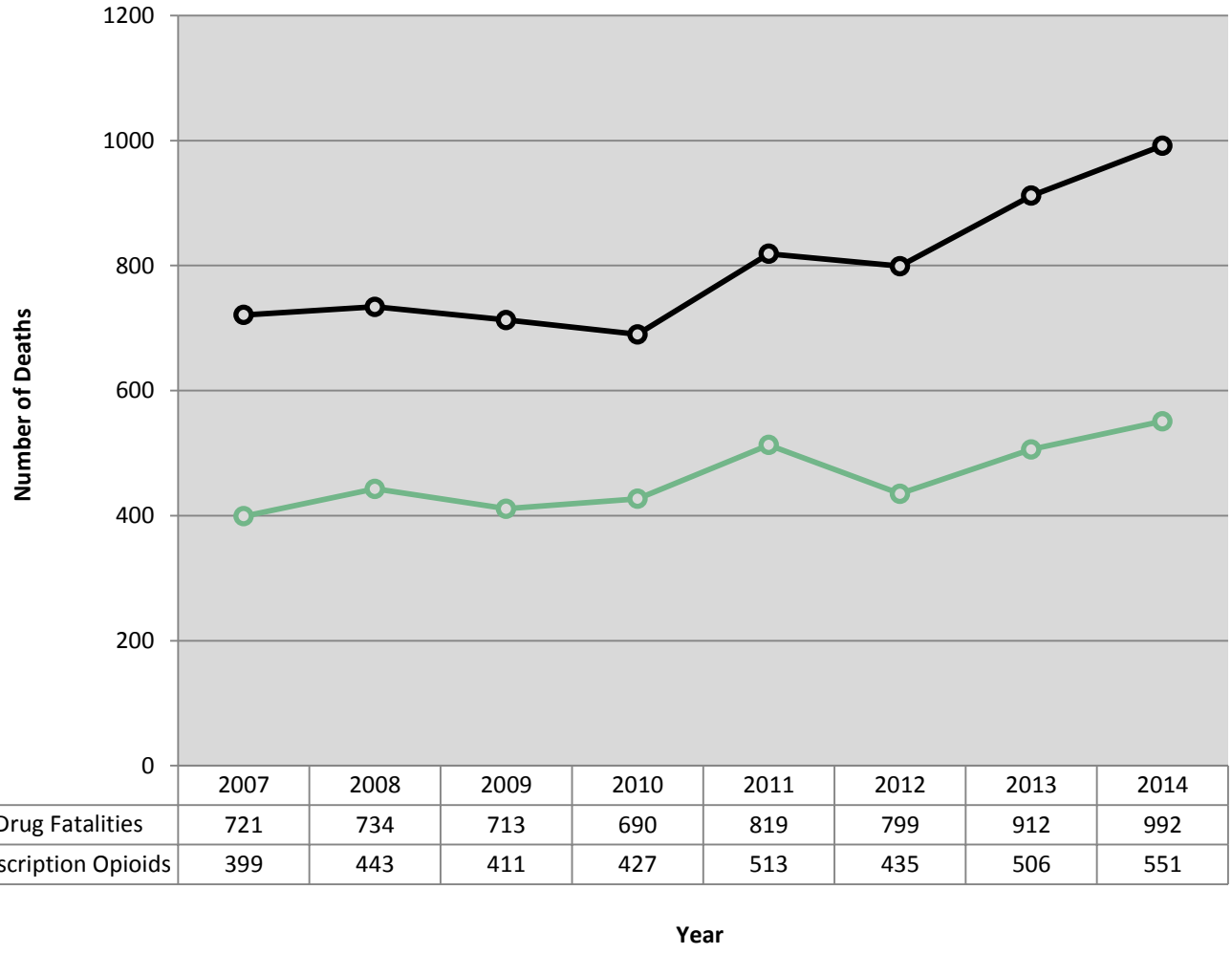


PRESCRIPTION OPIOIDS (N=551)

Prescription opioid deaths are a significant cause of injury and death in Virginia accounting for at least 55.5% of all drug/poison deaths in 2014.

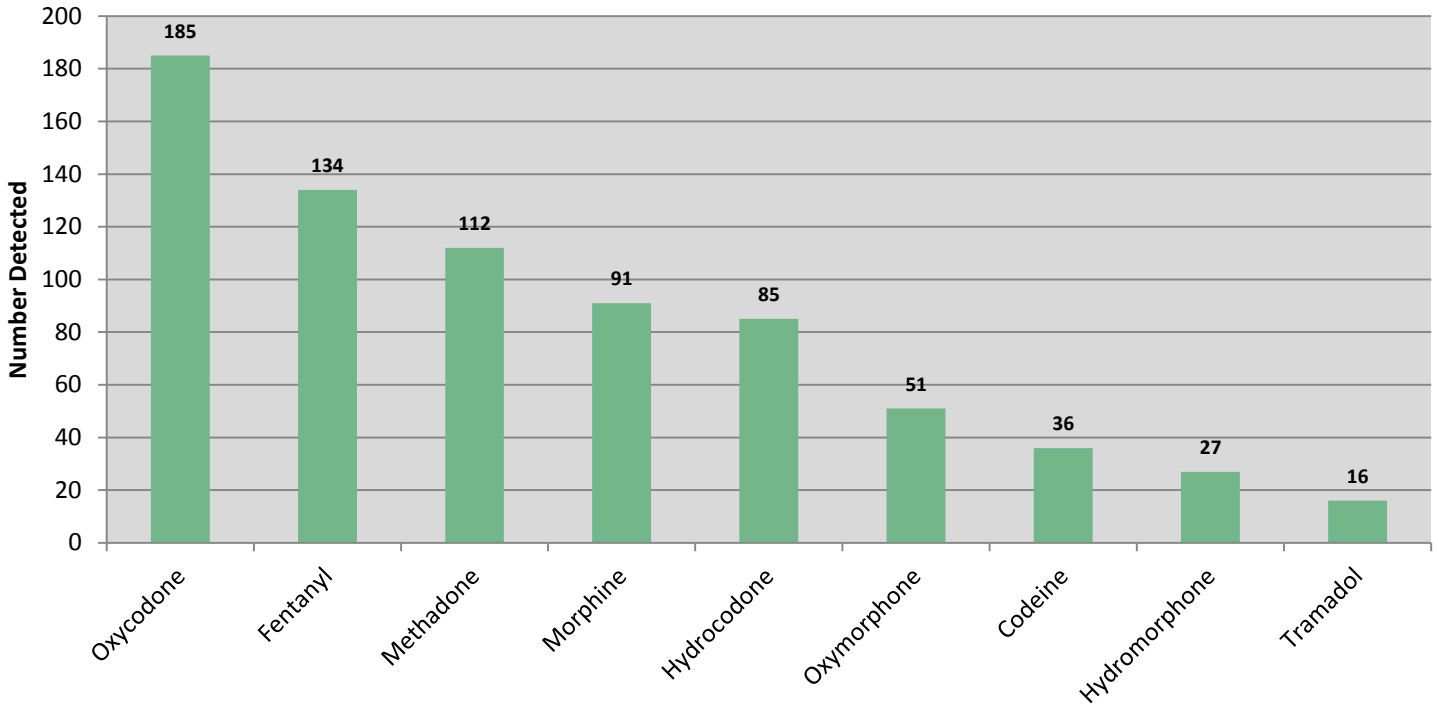
- Oxycodone continues to be the most common prescription opioid causing or contributing to death
- White males and males aged 35-44 years of age had the highest rates of fatal prescription opioid overdose in 2014 (11.1 death and 15.5 deaths per 100,00 persons, respectively)

Figure 5.12 Number of All Fatal Drug Overdoses Compared to All Fatal Prescription Opioid Overdoses by Year of Death, 2007-2014



	2007	2008	2009	2010	2011	2012	2013	2014
All Drug Fatalities	721	734	713	690	819	799	912	992
Prescription Opioids	399	443	411	427	513	435	506	551

Figure 5.13 Number of Prescription Opioids Causing or Contributing to Death in Fatal Drug/Poison Overdoses, 2014



[1] Fentanyl is categorized as a prescription opioid because it is mass produced by pharmaceutical companies. However, recent law enforcement investigations and toxicology results have demonstrated that several recent fentanyl seizures have ***not*** been pharmaceutically produced, but rather it has been imported from out-of-country drug traffickers who are producing the drug. Since this determination is made through a police investigation and often not through toxicology results, fentanyl deaths represented in this reportswill remain classified as prescription opioids

Figure 5.14 Percentage of Fatal Prescription Opioid Overdoses by Manner of Death, 2014

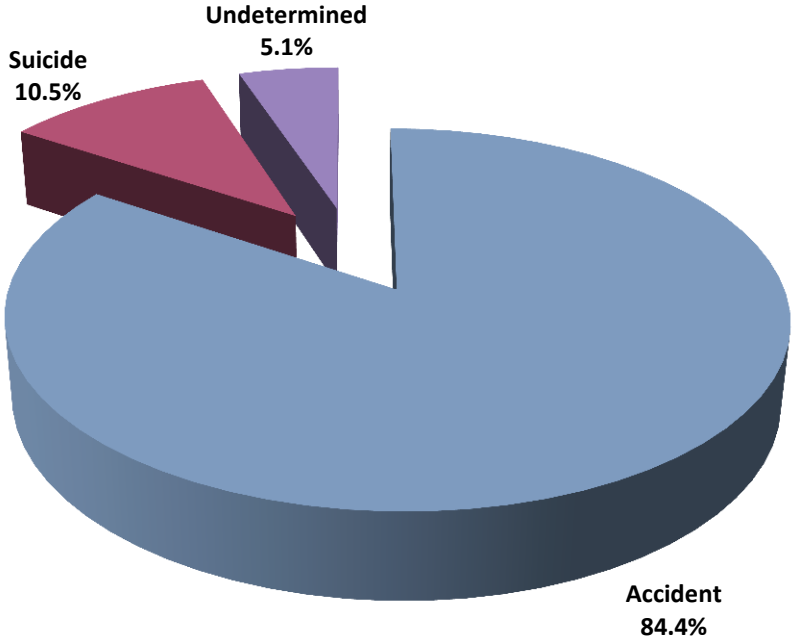
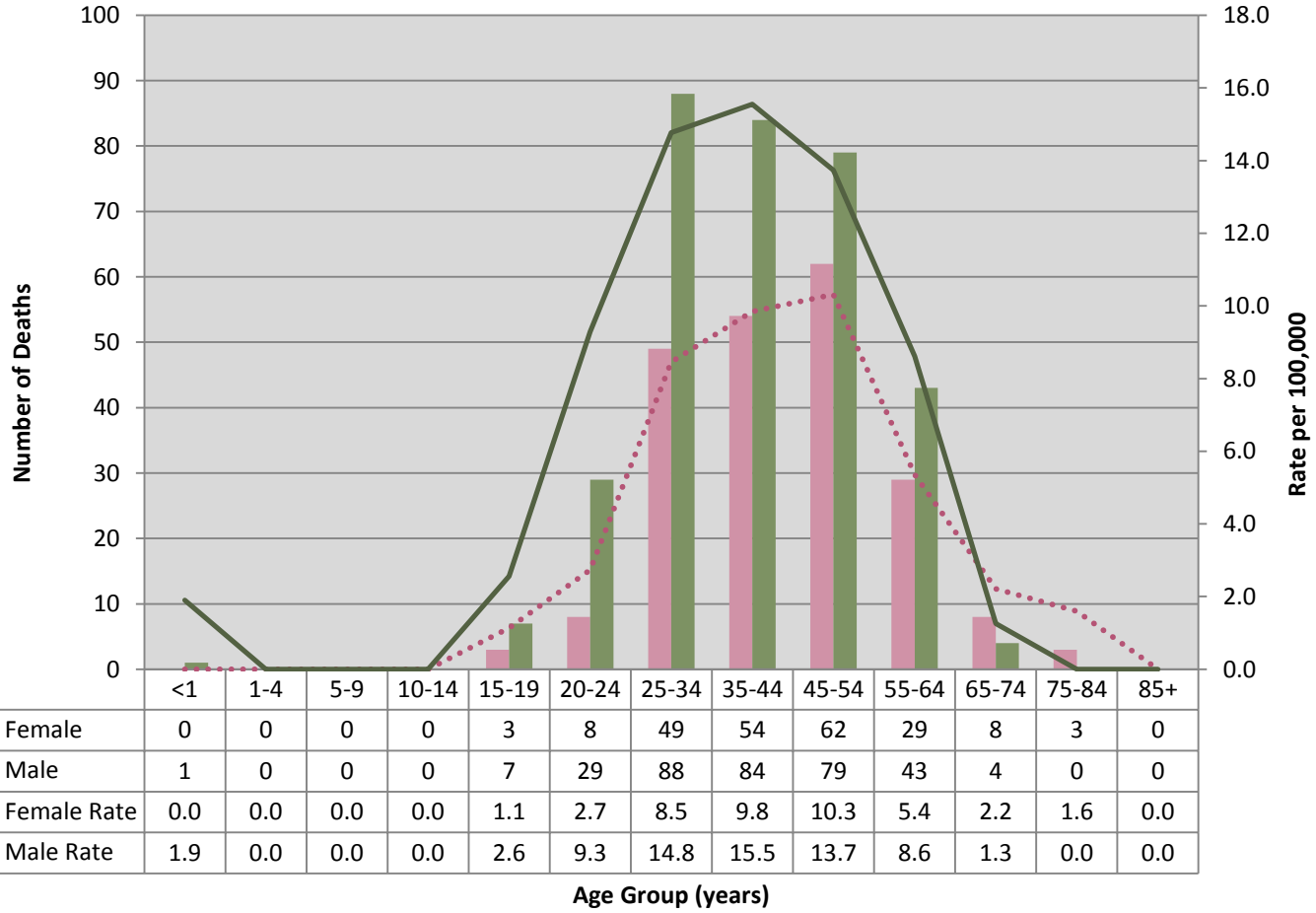


Table 5.10 Number of Prescription Opioids Detected in Fatal Drug Overdoses by OCME District, 2014

Prescription Opioid	Central	Northern	Tidewater	Western	Total
Oxycodone	25	67	34	59	**185**
Fentanyl	35	42	21	36	**134**
Methadone	33	25	19	35	**112**
Morphine	20	39	14	18	**91**
Hydrocodone	8	13	17	47	**85**
Oxymorphone	6	11	5	29	**51**
Codeine	4	14	14	4	**36**
Hydromorphone	2	13	8	4	**27**
Tramadol	4	2	3	7	**16**
TOTAL PRESCRIPTION OPIOIDS DETECTED	**137**	**226**	**135**	**239**	**737**

Figure 5.15 Number and Rate of Fatal Prescription Opioid Overdoses by Age Group and Gender, 2014



	<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	3	8	49	54	62	29	8	3	0
Male	1	0	0	0	7	29	88	84	79	43	4	0	0
Female Rate	0.0	0.0	0.0	0.0	1.1	2.7	8.5	9.8	10.3	5.4	2.2	1.6	0.0
Male Rate	1.9	0.0	0.0	0.0	2.6	9.3	14.8	15.5	13.7	8.6	1.3	0.0	0.0

Figure 5.16 Percentage of Fatal Prescription Opioid Overdoses by Race/Ethnicity, 2014

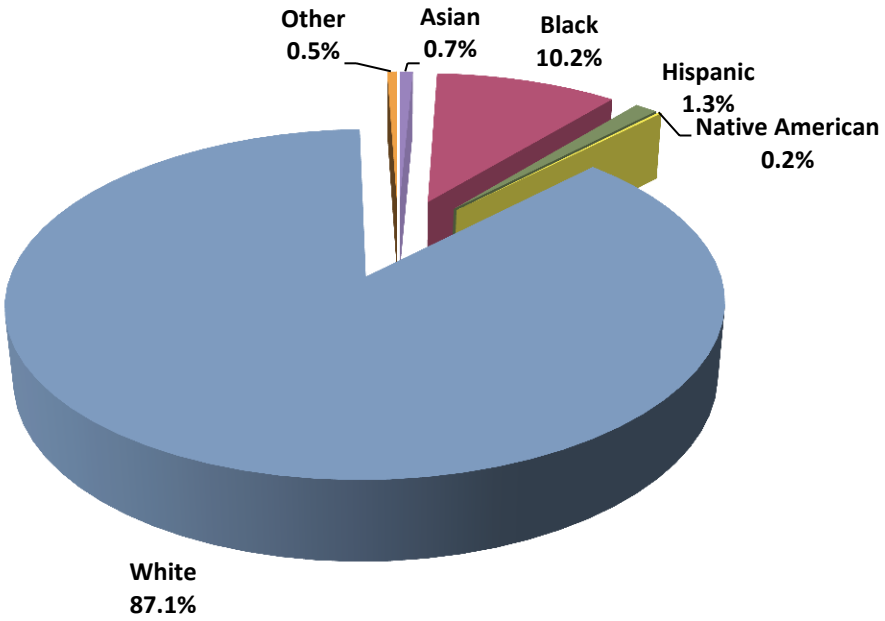
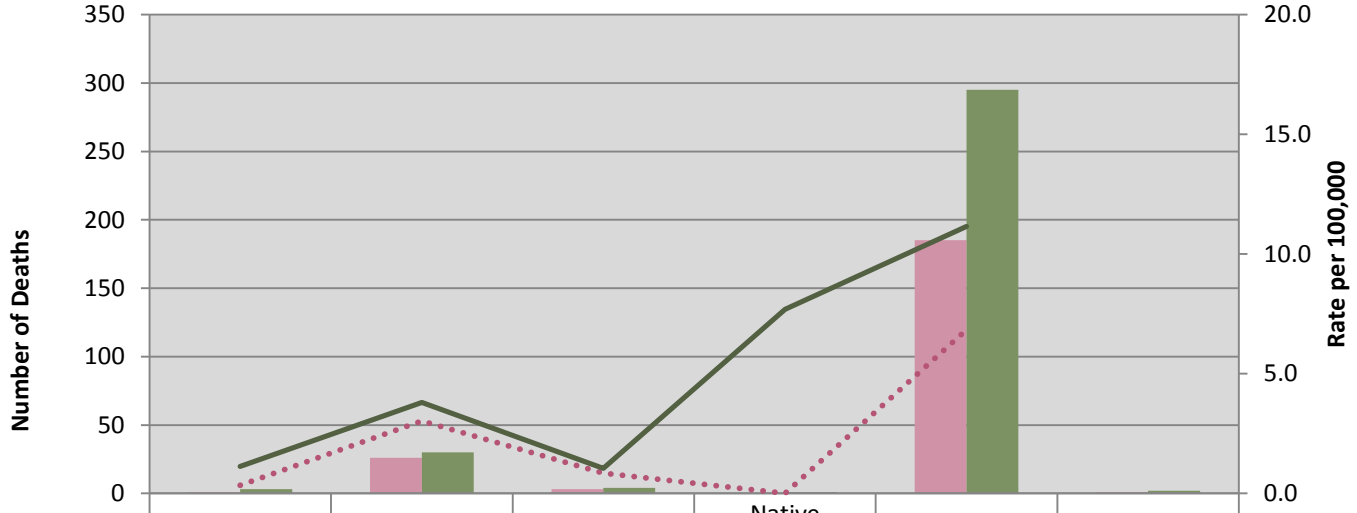


Figure 5.17 Number and Rate of Fatal Prescription Opioid Overdoses by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	1	26	3	0	185	1
Male	3	30	4	1	295	2
Female Rate	0.3	3.0	0.8	0.0	6.8	*
Male Rate	1.1	3.8	1.0	7.7	11.1	*

Race/Ethnicity

* No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Table 5.11 Number and Rate of Fatal Prescription Opioid Overdoses by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	5	15.1
Albemarle County	1	1.0
Alexandria City	7	4.6
Alleghany County	2	12.6
Amelia County	1	7.8
Amherst County	2	6.2
Appomattox County	1	6.5
Arlington County	5	2.2
Augusta County	5	6.8
Bath County	0	0.0
Bedford County	3	3.9
Bland County	0	0.0
Botetourt County	3	9.1
Bristol City	3	17.5
Brunswick County	0	0.0
Buchanan County	6	26.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	5	9.1
Caroline County	2	6.7
Carroll County	8	27.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	2	4.4
Chesapeake City	13	5.6
Chesterfield County	15	4.5
Clarke County	2	13.9
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	6	12.2
Cumberland County	0	0.0
Danville City	9	21.2
Dickenson County	5	32.7
Dinwiddie County	0	0.0

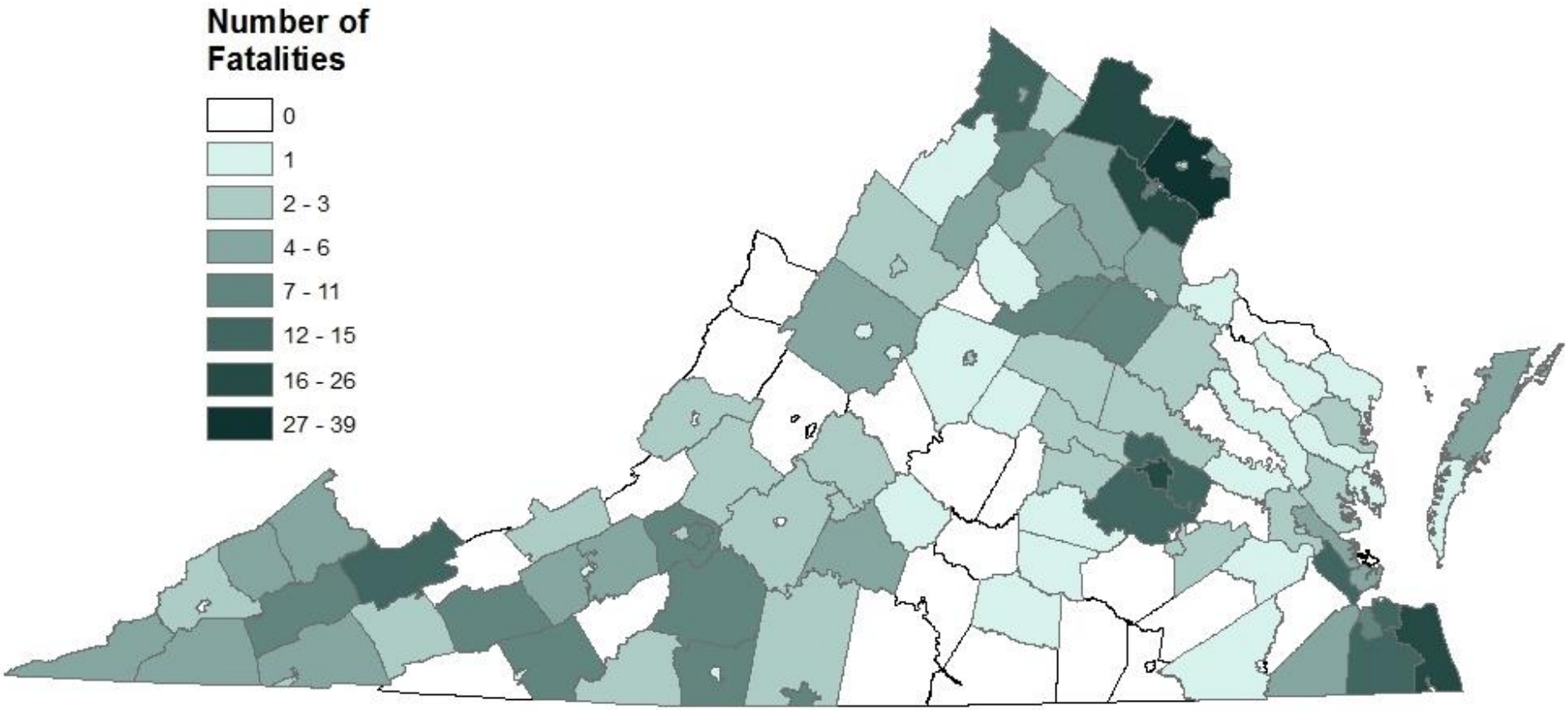
Locality of Residence	Total Cases	Rate
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	3	12.3
Fairfax County	39	3.4
Falls Church City	0	0.0
Fauquier County	6	8.8
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	7	12.4
Frederick County	14	17.0
Fredericksburg City	1	3.5
Galax City	1	14.3
Giles County	3	17.8
Gloucester County	3	8.1
Goochland County	2	9.1
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	5	3.7
Hanover County	3	2.9
Harrisonburg City	2	3.8
Henrico County	12	3.7
Henry County	8	15.4
Highland County	0	0.0
Hopewell City	0	0.0
Isle of Wight County	0	0.0
James City County	3	4.1
King and Queen County	1	13.9
King George County	1	3.9
King William County	0	0.0
Lancaster County	2	18.1
Lee County	6	24.0
Lexington City	0	0.0

Locality of Residence	Total Cases	Rate
Loudoun County	20	5.5
Louisa County	2	5.8
Lunenburg County	1	8.0
Lynchburg City	2	2.5
Madison County	1	7.6
Manassas	7	16.6
Manassas Park	0	0.0
Martinsville City	1	7.3
Mathews County	1	11.3
Mecklenburg County	0	0.0
Middlesex County	1	9.3
Montgomery County	5	5.1
Nelson County	0	0.0
New Kent County	1	5.0
Newport News City	15	8.2
Norfolk City	15	6.1
Northampton County	1	8.3
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	1	6.4
Orange County	7	20.0
Page County	6	25.2
Patrick County	2	11.0
Petersburg City	2	6.1
Pittsylvania County	2	3.2
Poquoson City	0	0.0
Portsmouth City	9	9.4
Powhatan County	2	7.0
Prince Edward County	0	0.0
Prince George County	2	5.4
Prince William County	20	4.5
Pulaski County	5	14.6
Radford City	1	5.7
Rappahannock County	2	27.2
Richmond City	25	11.5

Locality of Residence	Total Cases	Rate
Richmond County	1	11.2
Roanoke City	9	9.1
Roanoke County	11	11.7
Rockbridge County	0	0.0
Rockingham County	3	3.8
Russell County	8	28.5
Salem City	3	11.8
Scott County	4	17.9
Shenandoah County	1	2.3
Smyth County	2	6.3
Southampton County	1	5.5
Spotsylvania County	8	6.2
Stafford County	5	3.6
Staunton City	1	4.1
Suffolk City	5	5.8
Surry County	1	14.7
Sussex County	0	0.0
Tazewell County	14	32.2
Virginia Beach City	26	5.8
Warren County	7	18.0
Washington County	6	11.0
Waynesboro City	1	4.7
Westmoreland County	0	0.0
Williamsburg City	3	20.4
Winchester City	5	18.2
Wise County	3	7.5
Wythe County	7	24.0
York County	5	7.5
Subtotal (in-state)	534	6.4
Out of State	16	ND
Unknown	1	ND
Subtotal (out-of-state)	17	ND
TOTAL	**551**	**6.6**

Note: No denominator is represented by ND

Map 5.5 Number of Fatal Prescription Opioid Overdoses by Locality of Residence, 2014



Map 5.6 Rates of Fatal Prescription Opioid Overdoses by Locality of Residence, 2014

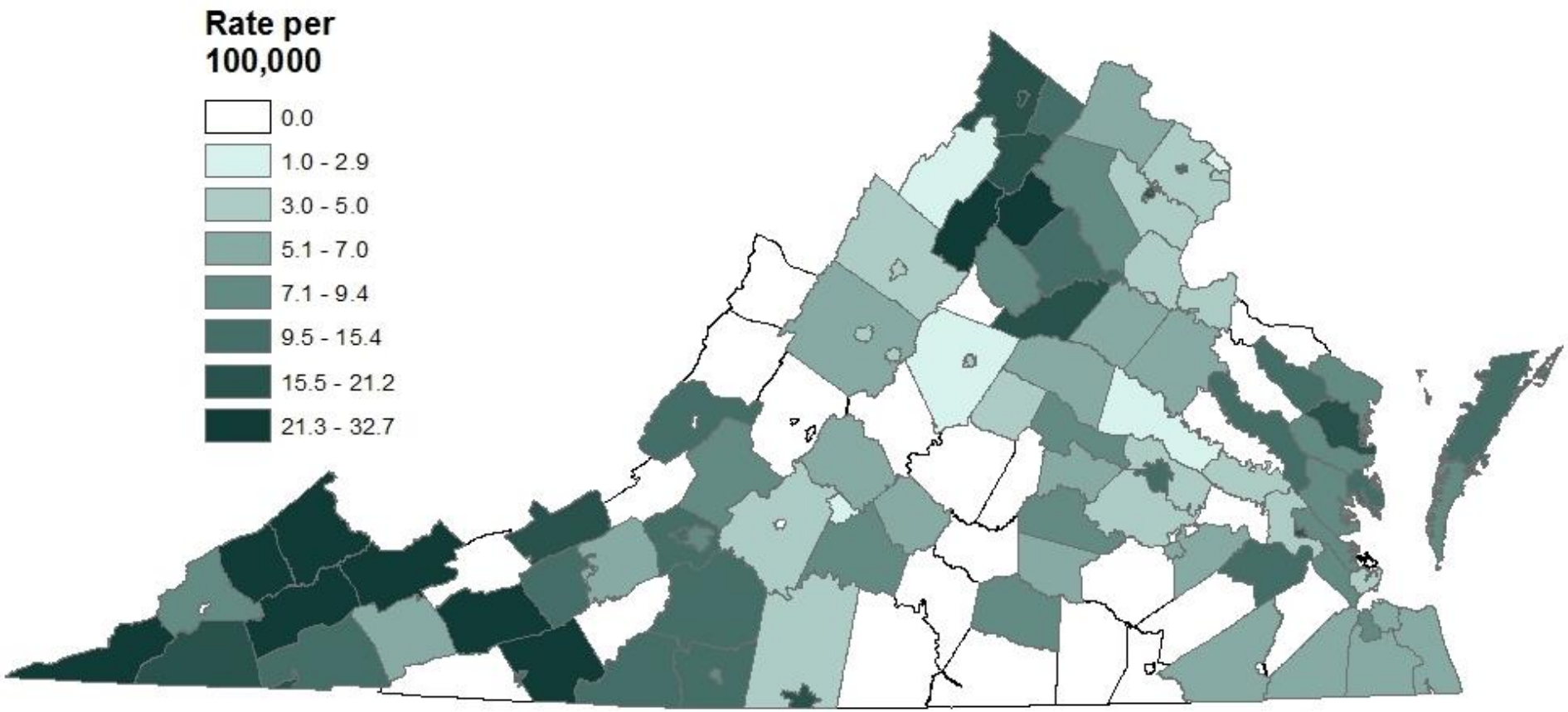


Table 5.12 Number and Rate of Fatal Prescription Opioid Overdoses by Locality of Injury, 2013

Locality of Injury	Total Cases	Rate
Accomack County	5	15.1
Albemarle County	2	1.9
Alexandria City	7	4.6
Alleghany County	1	6.3
Amelia County	1	7.8
Amherst County	1	3.1
Appomattox County	1	6.5
Arlington County	7	3.1
Augusta County	5	6.8
Bath County	0	0.0
Bedford County	4	5.2
Bland County	0	0.0
Botetourt County	3	9.1
Bristol City	3	17.5
Brunswick County	0	0.0
Buchanan County	6	26.0
Buckingham County	0	0.0
Buena Vista City	0	0.0
Campbell County	3	5.5
Caroline County	3	10.1
Carroll County	9	30.4
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	2	4.4
Chesapeake City	16	6.9
Chesterfield County	17	5.1
Clarke County	2	13.9
Colonial Heights City	0	0.0
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	6	12.2
Cumberland County	0	0.0
Danville City	11	25.9
Dickenson County	5	32.7
Dinwiddie County	0	0.0

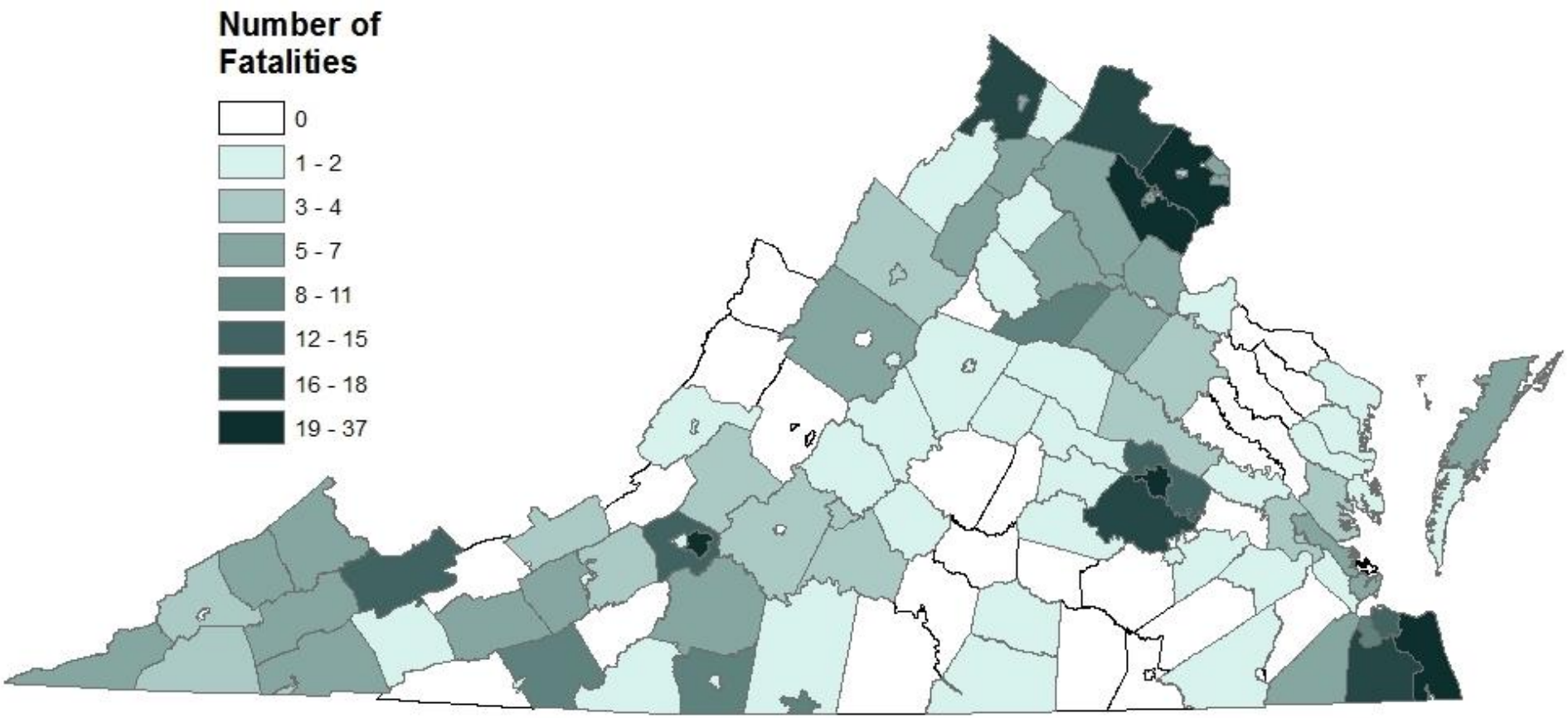
Locality of Injury	Total Cases	Rate
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	3	12.3
Fairfax County	37	3.3
Falls Church City	0	0.0
Fauquier County	6	8.8
Floyd County	0	0.0
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	6	10.6
Frederick County	17	20.6
Fredericksburg City	1	3.5
Galax City	1	14.3
Giles County	3	17.8
Gloucester County	3	8.1
Goochland County	2	9.1
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	5	3.7
Hanover County	3	2.9
Harrisonburg City	3	5.7
Henrico County	15	4.7
Henry County	9	17.3
Highland County	0	0.0
Hopewell City	0	0.0
Isle of Wight County	0	0.0
James City County	3	4.1
King and Queen County	0	0.0
King George County	1	3.9
King William County	0	0.0
Lancaster County	1	9.1
Lee County	6	24.0
Lexington City	0	0.0

Locality of Injury	Total Cases	Rate
Loudoun County	18	5.0
Louisa County	1	2.9
Lunenburg County	1	8.0
Lynchburg City	3	3.8
Madison County	1	7.6
Manassas	5	11.9
Manassas Park	2	13.2
Martinsville City	2	14.6
Mathews County	2	22.6
Mecklenburg County	1	3.2
Middlesex County	1	9.3
Montgomery County	4	4.1
Nelson County	1	6.7
New Kent County	2	10.0
Newport News City	2	1.1
Norfolk City	14	5.7
Northampton County	1	8.3
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	9	25.7
Page County	6	25.2
Patrick County	1	5.5
Petersburg City	2	6.1
Pittsylvania County	1	1.6
Poquoson City	0	0.0
Portsmouth City	8	8.3
Powhatan County	2	7.0
Prince Edward County	0	0.0
Prince George County	1	2.7
Prince William County	24	5.4
Pulaski County	6	17.5
Radford City	1	5.7
Rappahannock County	2	27.2
Richmond City	24	11.0
Richmond County	0	0.0

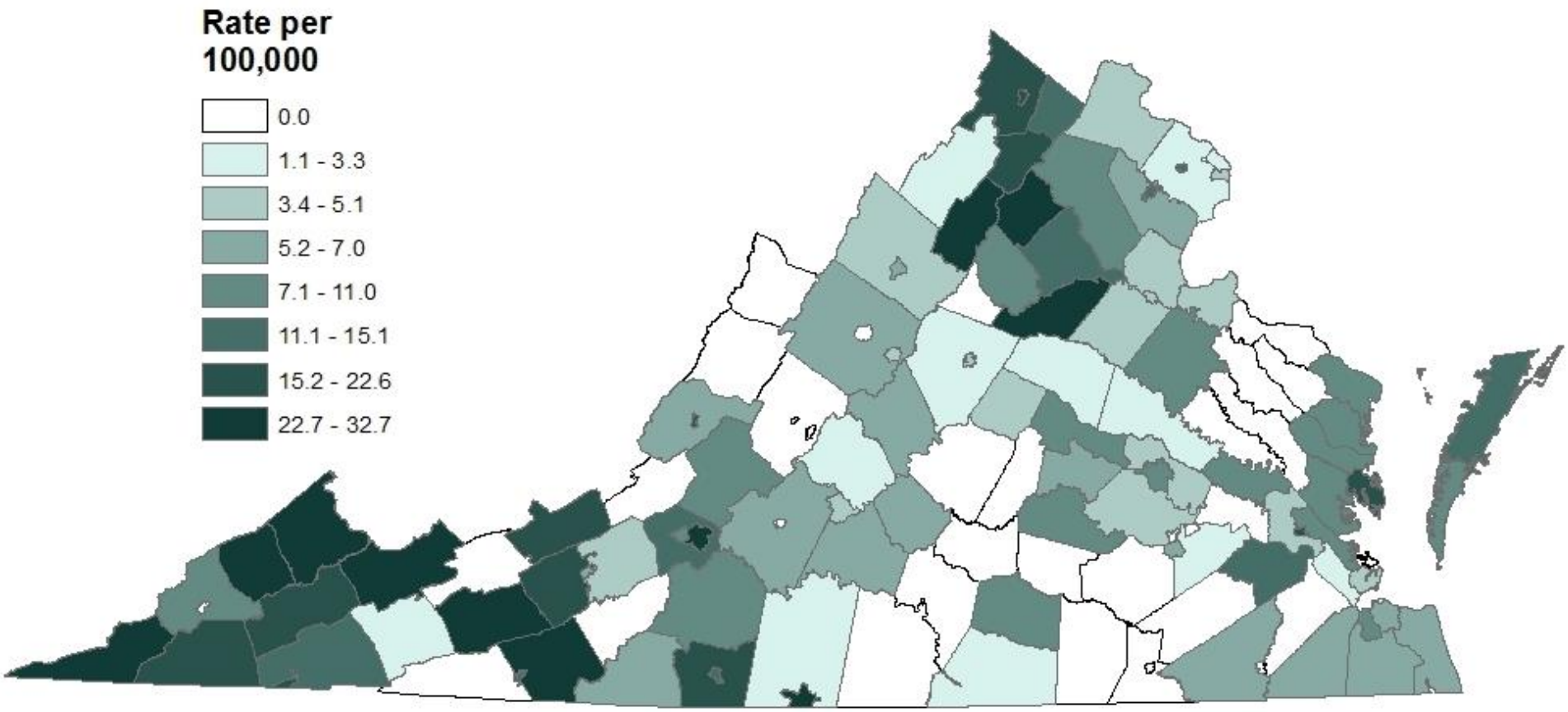
Locality of Injury	Total Cases	Rate
Roanoke City	24	24.1
Roanoke County	13	13.9
Rockbridge County	0	0.0
Rockingham County	4	5.1
Russell County	6	21.4
Salem City	2	7.8
Scott County	4	17.9
Shenandoah County	1	2.3
Smyth County	1	3.2
Southampton County	1	5.5
Spotsylvania County	6	4.6
Stafford County	6	4.3
Staunton City	0	0.0
Suffolk City	5	5.8
Surry County	1	14.7
Sussex County	0	0.0
Tazewell County	14	32.2
Virginia Beach City	25	5.5
Warren County	7	18.0
Washington County	7	12.8
Waynesboro City	1	4.7
Westmoreland County	0	0.0
Williamsburg City	3	20.4
Winchester City	6	21.8
Wise County	3	7.5
Wythe County	7	24.0
York County	5	7.5
Subtotal (in-state)	**548**	**6.6**
Out of State	3	ND
Unknown	0	ND
Subtotal (out-of-state)	**3**	**ND**
TOTAL	**551**	**6.6**

Note: No denominator is represented by ND

Map 5.7 Number of Fatal Prescription Opioid Overdoses by Locality of Injury, 2014



Map 5.8 Rates of Fatal Prescription Opioid Overdoses by Locality of Injury, 2014



HEROIN DEATHS (N=239)

The number of fatal heroin overdoses have significantly increased each year since 2010. This increase in the number of heroin fatalities has driven the total number of fatal drug/poison overdoses up annually. Heroin deaths may be underestimated because heroin is very rapidly metabolized into morphine. Without a known history of heroin use, specific circumstances of the death, and/or the presence of the specific heroin metabolite detected in toxicology, heroin cases may be misclassified as morphine and not heroin.

- Over 98% percent of fatal heroin overdoses were accidents
- White males had the highest death rate (7.7 deaths per 100,000 persons)
- Males 35-44 years of age had the highest rate of death (10.6 deaths per 100,000 persons)
- Heroin was involved in 24.1% of all drug/poison cases in Virginia in 2014
- The Central and Tidewater districts had the largest number of these cases with 36.6% and 32.4%, respectively, while the Western district managed only 7.5% of fatal heroin overdoses

Figure 5.18 Number and Rate of Fatal Heroin Overdoses by Year of Death, 2007-2014

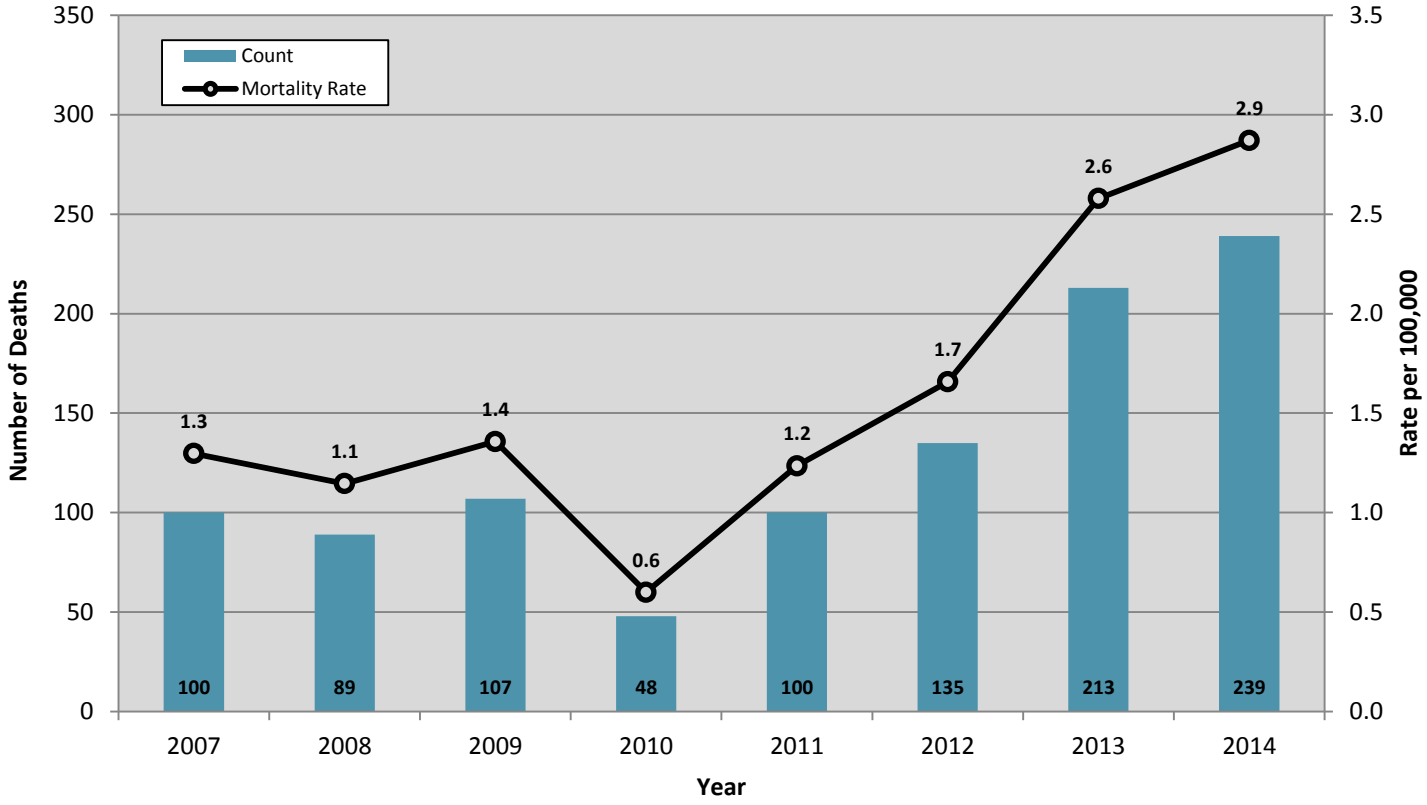


Table 5.13 Number and Percentage of Fatal Heroin Overdoses by OCME District, 2014

OCME District	Number	Percentage
Central	71	36.6%
Northern	85	23.5%
Tidewater	66	32.4%
Western	17	7.5%
TOTAL	239	100.0%

Figure 5.19 Percentage of Fatal Heroin Overdoses by Manner of Death, 2014

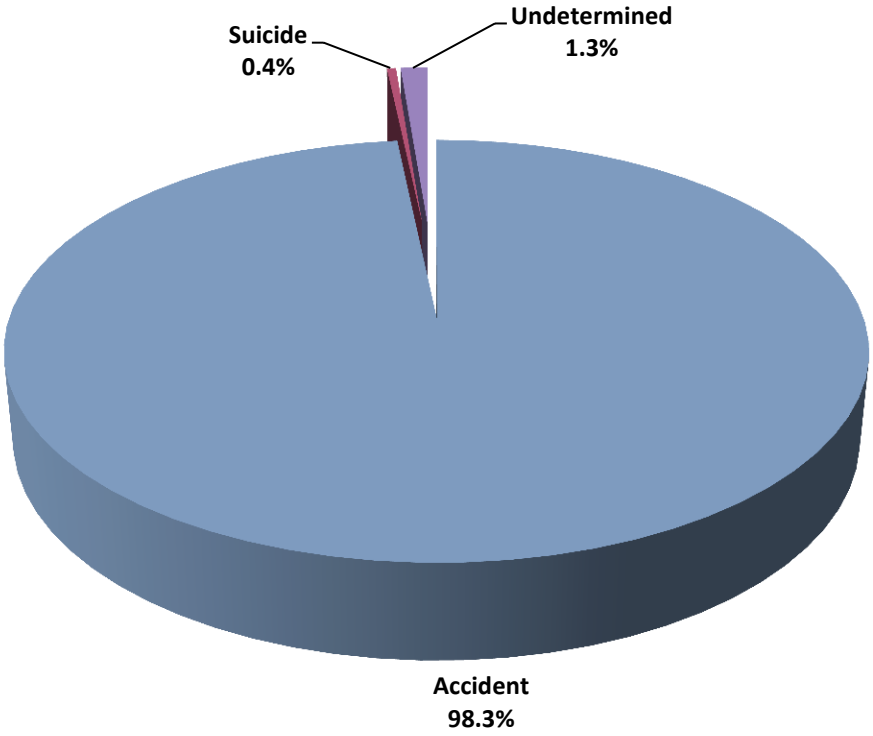
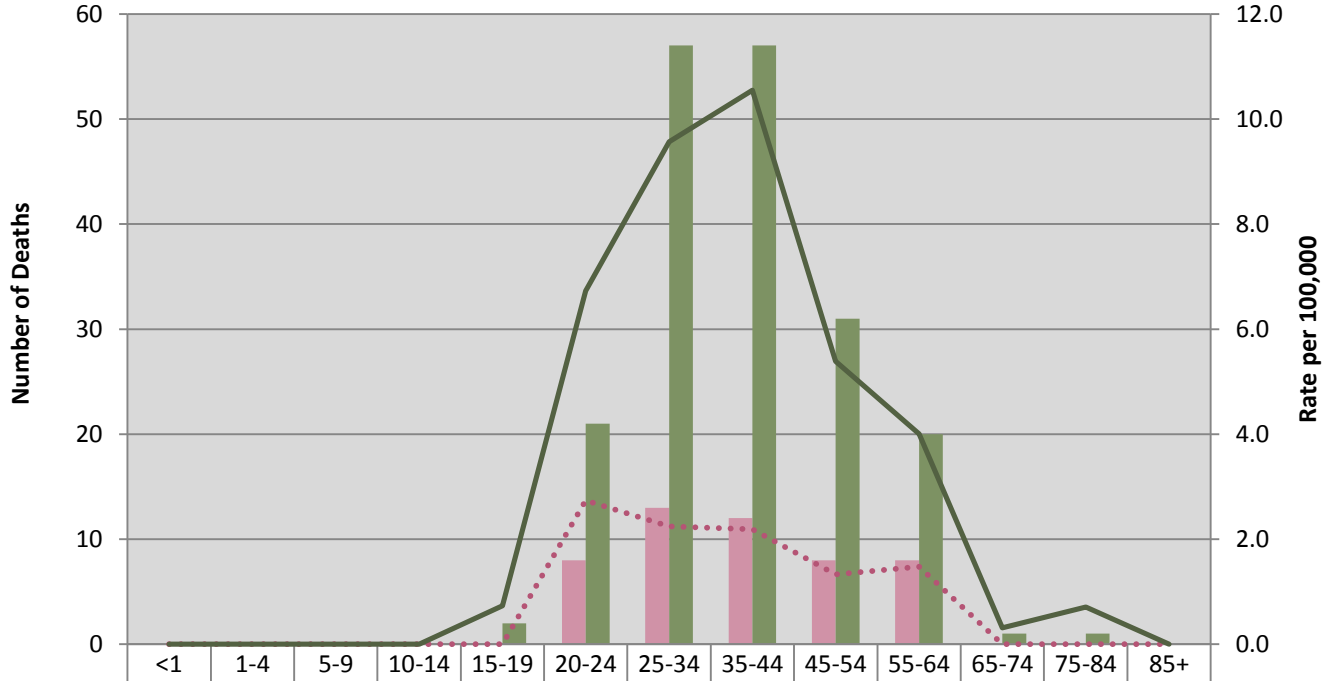


Figure 5.20 Number and Rate of Fatal Heroin Overdoses by Age Group and Gender, 2014



	<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	0	8	13	12	8	8	0	0	0
Male	0	0	0	0	2	21	57	57	31	20	1	1	0
Female Rate	0.0	0.0	0.0	0.0	0.0	2.7	2.2	2.2	1.3	1.5	0.0	0.0	0.0
Male Rate	0.0	0.0	0.0	0.0	0.7	6.7	9.6	10.6	5.4	4.0	0.3	0.7	0.0

Age Group

Figure 5.21 Percentage of Fatal Heroin Overdoses by Race/Ethnicity, 2014

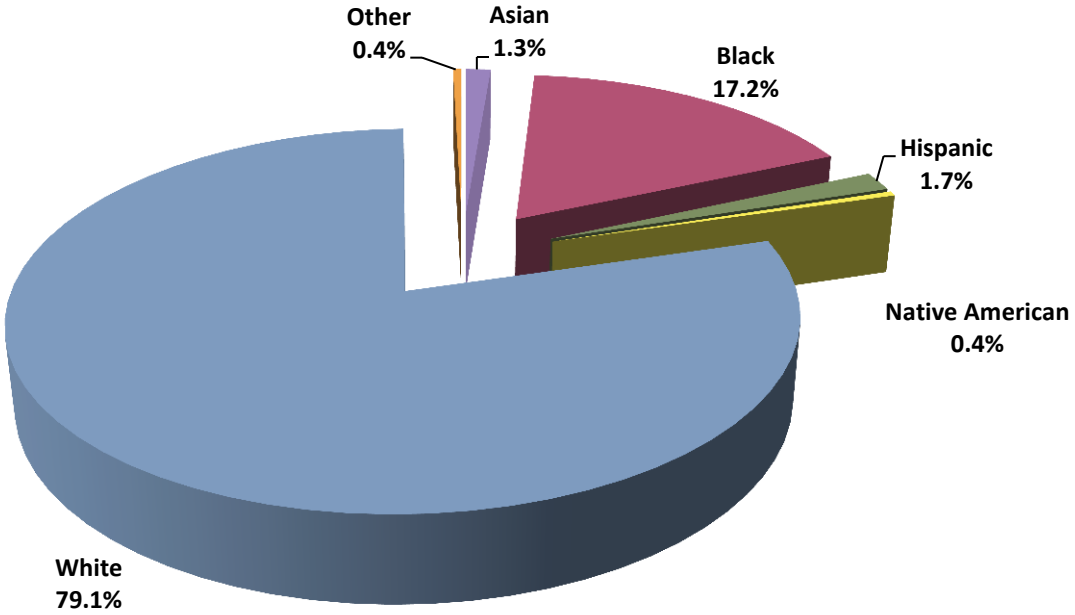
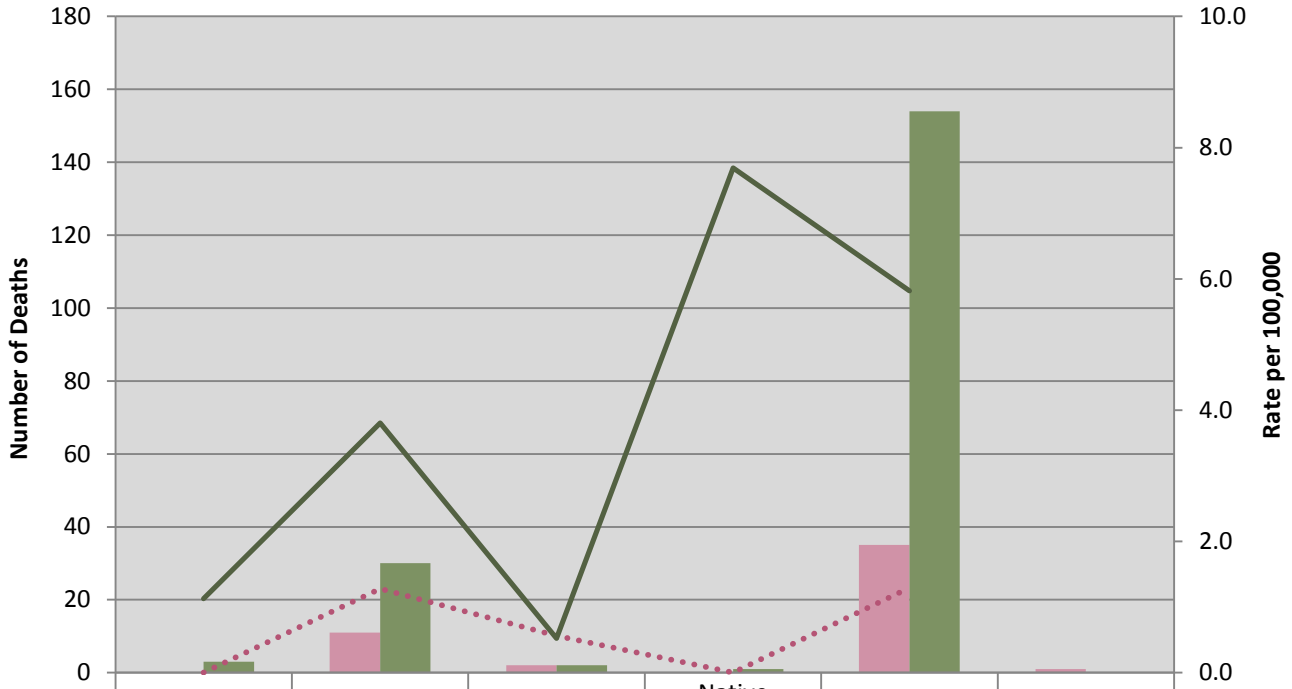


Figure 5.22 Number and Rate of Fatal Heroin Overdoses by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	0	11	2	0	35	1
Male	3	30	2	1	154	0
Female Rate	0.0	1.3	0.6	0.0	1.3	*
Male Rate	1.1	3.8	0.5	7.7	5.8	*

Race/Ethnicity

*No rate can be calculated

** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Table 5.14 Number and Percentage of Fatal Heroin Overdoses by Whether Alcohol Caused Death, 2014

Whether Alcohol Played a Role in Death	Deaths	Percentage
Yes	59	2.8%
Contributed	9	79.8%
No	171	17.4%
TOTAL	**239**	**100.0%**

Table 5.15 Number and Rate of Fatal Heroin Overdose by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	2	6.1
Albemarle County	3	2.9
Alexandria City	2	1.3
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	3	1.3
Augusta County	2	2.7
Bath County	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	0	0.0
Buena Vista City	0	0.0
Campbell County	0	0.0
Caroline County	0	0.0
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	0	0.0
Chesapeake City	8	3.4
Chesterfield County	8	2.4
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	7	14.2
Cumberland County	0	0.0
Danville City	0	0.0
Dickenson County	0	0.0
Dinwiddie County	0	0.0
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	1	4.1
Fairfax County	23	2.0
Falls Church City	0	0.0

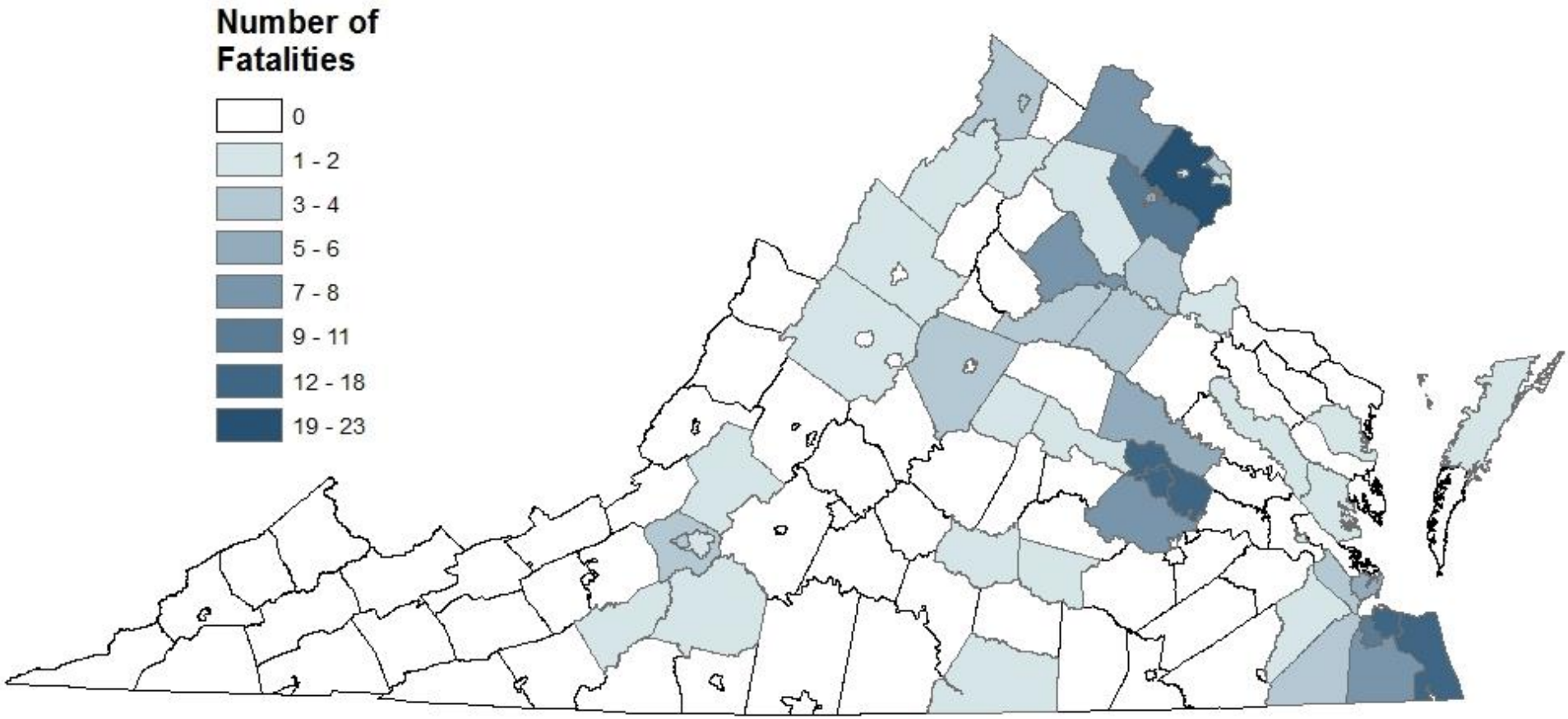
Locality of Residence	Total Cases	Rate
Fauquier County	2	2.9
Floyd County	1	6.4
Fluvanna County	2	7.7
Franklin City	0	0.0
Franklin County	1	1.8
Frederick County	3	3.6
Fredericksburg City	1	3.5
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	1	2.7
Goochland County	2	9.1
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	6	4.4
Hanover County	6	5.9
Harrisonburg City	0	0.0
Henrico County	14	4.3
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	13.9
King George County	1	3.9
King William County	0	0.0
Lancaster County	1	9.1
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	8	2.2
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	0	0.0
Madison County	0	0.0
Manassas	5	11.9
Manassas Park	1	6.6
Martinsville City	0	0.0
Mathews County	0	0.0
Mecklenburg County	1	3.2

Locality of Residence	Total Cases	Rate
Middlesex County	0	0.0
Montgomery County	0	0.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	4	2.2
Norfolk City	14	5.7
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	1	6.4
Orange County	3	8.6
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	0	0.0
Pittsylvania County	0	0.0
Poquoson City	0	0.0
Portsmouth City	11	11.5
Powhatan County	0	0.0
Prince Edward County	1	4.3
Prince George County	0	0.0
Prince William County	10	2.2
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	18	8.3
Richmond County	0	0.0
Roanoke City	1	1.0
Roanoke County	4	4.3
Rockbridge County	0	0.0
Rockingham County	2	2.6

Locality of Residence	Total Cases	Rate
Russell County	0	0.0
Salem City	4	15.7
Scott County	0	0.0
Shenandoah County	2	4.6
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	3	2.3
Stafford County	3	2.1
Staunton City	0	0.0
Suffolk City	4	4.6
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	15	3.3
Warren County	2	5.1
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	2	13.6
Winchester City	4	14.5
Wise County	0	0.0
Wythe County	0	0.0
York County	0	0.0
Subtotal (in-state)	226	2.7
Out of State	8	ND
Unknown	5	ND
Subtotal (out-of-state)	13	ND
TOTAL	**239**	**2.9**

Note: No denominator is represented by ND.

Map 5.9 Number of Fatal Heroin Overdoses by Locality of Residence, 2014



Map 5.10 Rates of Fatal Heroin Overdose by Locality of Residence, 2014

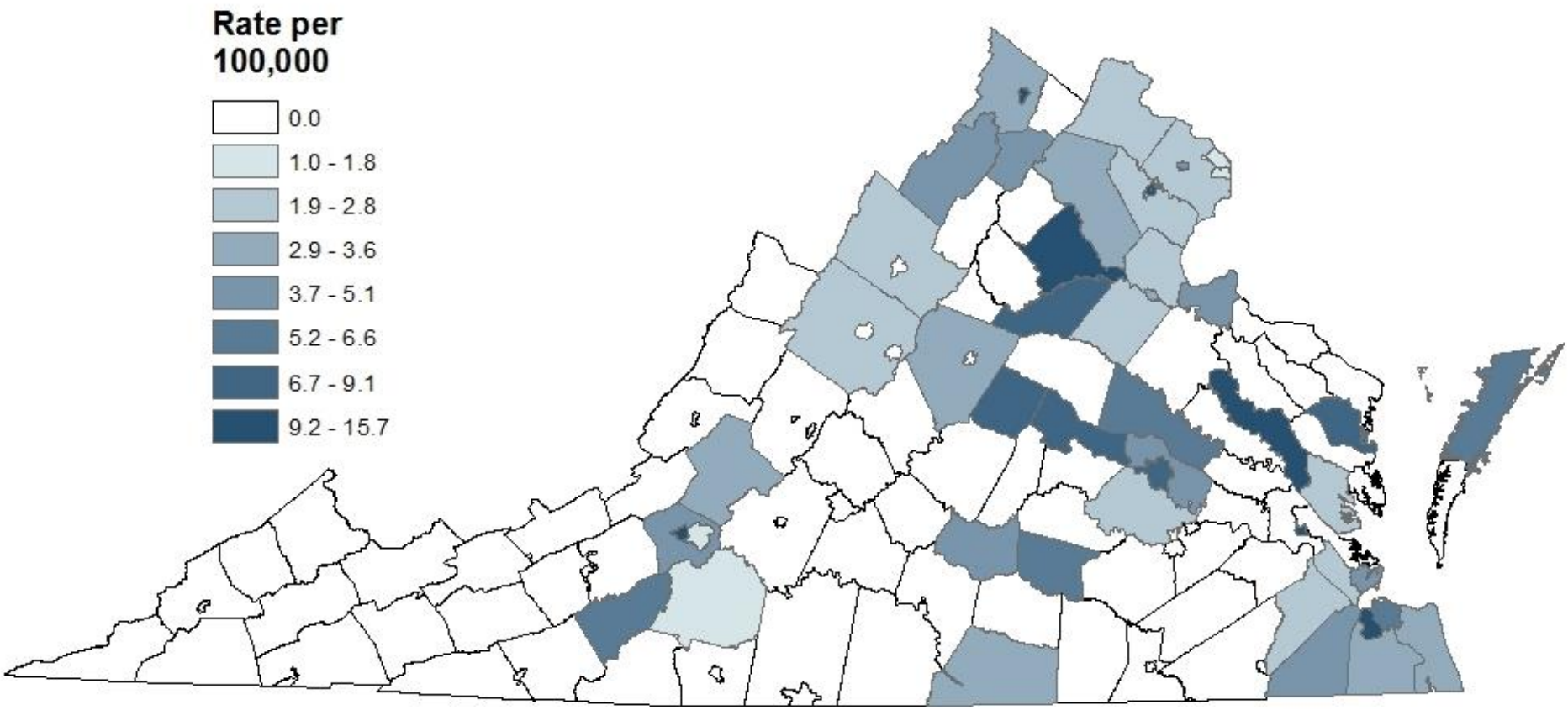


Table 5.16 Number and Rate of Fatal Heroin Overdoses by Locality of Injury, 2014

Locality of Injury	Total Cases	Rate
Accomack County	2	6.1
Albemarle County	2	1.9
Alexandria City	4	2.7
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	5	2.2
Augusta County	2	2.7
Bath County	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	0	0.0
Buena Vista City	0	0.0
Campbell County	0	0.0
Caroline County	0	0.0
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	1	2.2
Chesapeake City	11	4.7
Chesterfield County	9	2.7
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	5	10.2
Cumberland County	0	0.0
Danville City	1	2.4
Dickenson County	0	0.0
Dinwiddie County	0	0.0
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	1	4.1
Fairfax County	23	2.0

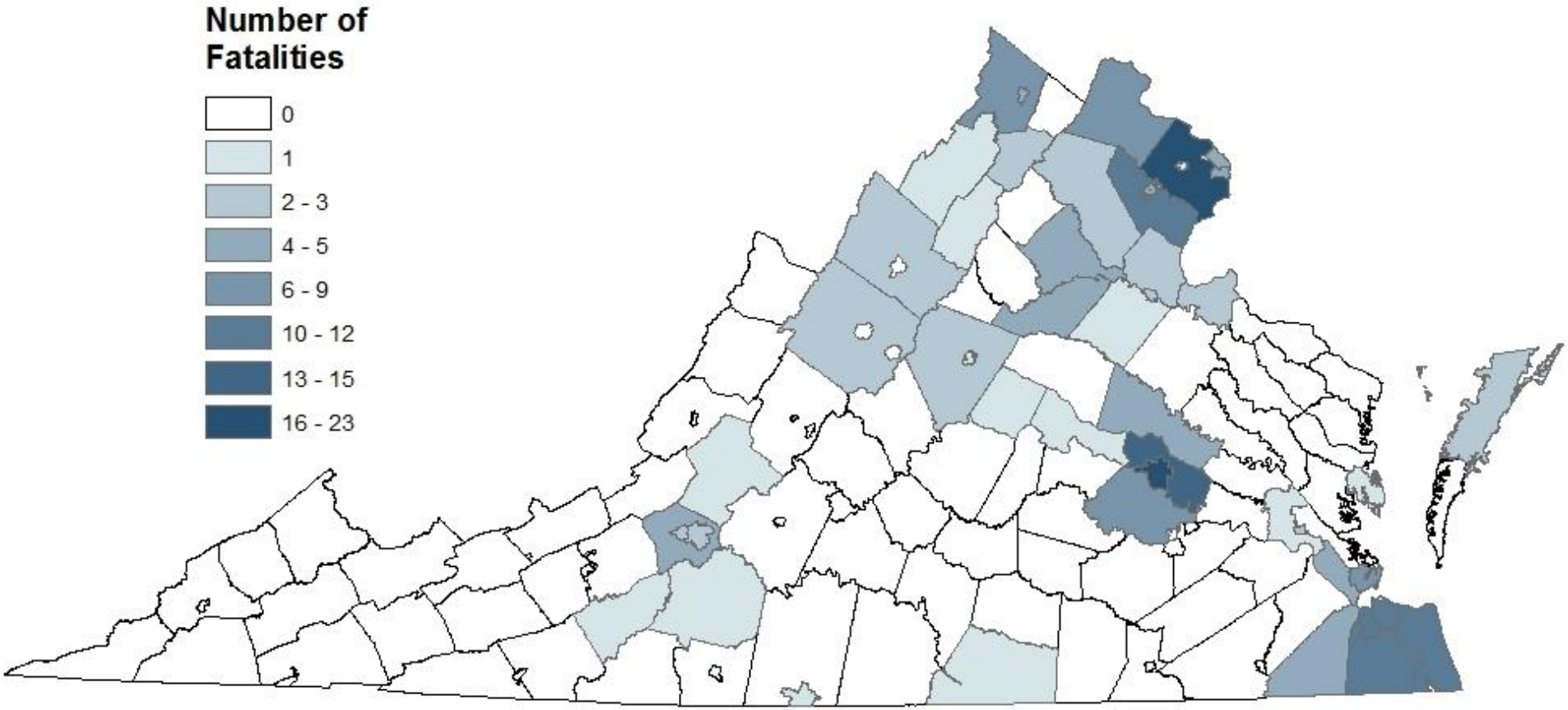
Locality of Injury	Total Cases	Rate
Falls Church City	0	0.0
Fauquier County	2	2.9
Floyd County	1	6.4
Fluvanna County	1	3.8
Franklin City	0	0.0
Franklin County	1	1.8
Frederick County	7	8.5
Fredericksburg City	2	7.1
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	0	0.0
Goochland County	1	4.6
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	6	4.4
Hanover County	5	4.9
Harrisonburg City	0	0.0
Henrico County	15	4.7
Henry County	0	0.0
Highland County	0	0.0
Hopewell City	0	0.0
Isle of Wight County	0	0.0
James City County	1	1.4
King and Queen County	0	0.0
King George County	3	11.8
King William County	0	0.0
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	7	1.9
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	0	0.0
Madison County	0	0.0
Manassas	4	9.5
Manassas Park	2	13.2
Martinsville City	0	0.0

Locality of Injury	Total Cases	Rate
Mathews County	1	11.3
Mecklenburg County	1	3.2
Middlesex County	0	0.0
Montgomery County	0	0.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	5	2.7
Norfolk City	12	4.9
Northampton County	0	0.0
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	0	0.0
Orange County	5	14.3
Page County	1	4.2
Patrick County	0	0.0
Petersburg City	0	0.0
Pittsylvania County	0	0.0
Poquoson City	0	0.0
Portsmouth City	12	12.5
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	0	0.0
Prince William County	11	2.5
Pulaski County	0	0.0
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	23	10.6
Richmond County	0	0.0
Roanoke City	2	2.0
Roanoke County	4	4.3

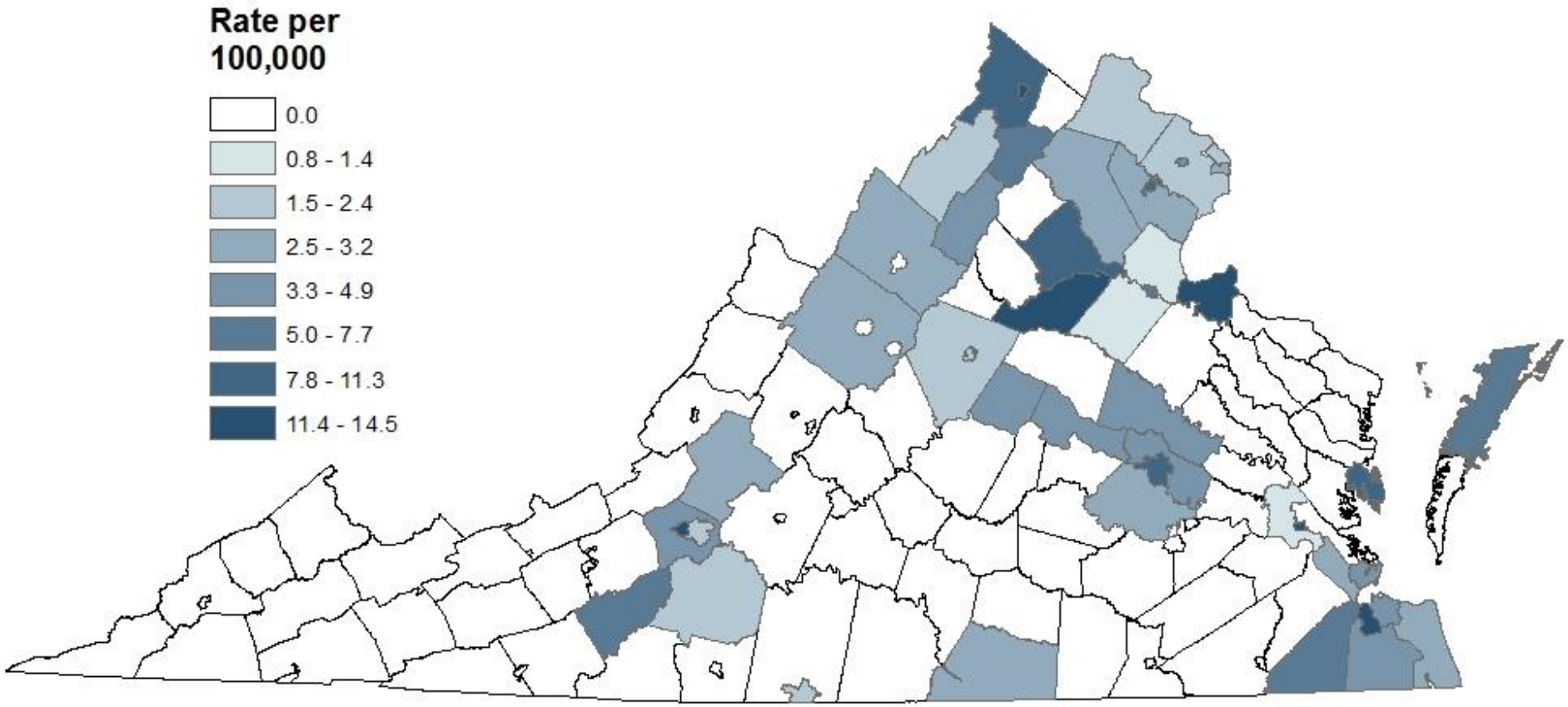
Locality of Injury	Total Cases	Rate
Rockbridge County	0	0.0
Rockingham County	2	2.6
Russell County	0	0.0
Salem City	3	11.8
Scott County	0	0.0
Shenandoah County	1	2.3
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	1	0.8
Stafford County	2	1.4
Staunton City	0	0.0
Suffolk City	5	5.8
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	0	0.0
Virginia Beach City	12	2.7
Warren County	3	7.7
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	2	13.6
Winchester City	4	14.5
Wise County	0	0.0
Wythe County	0	0.0
York County	0	0.0
Subtotal (in-state)	237	2.8
Unknown	2	ND
Subtotal (out-of-state)	2	ND
TOTAL	**239**	**2.9**

Note: No denominator is represented by ND.

Map 5.11 Number of Fatal Heroin Overdoses by Locality of Injury, 2014



Map 5.12 Rates of Fatal Heroin Overdose by Locality of Injury, 2014



COCAINE AND/OR HEROIN DEATHS (N=332)

Fatal cocaine and/or heroin overdoses are particularly important to monitor because although they are not the only illegal drugs used in Virginia, they are the most common compounds found in fatal overdoses of illegal drugs.

- Decedents were most commonly male (74.7%) and white (74.7%)
- The Northern OCME district had the most of these deaths (31.0%) and the Western OCME had the least (12.7%)
- Cocaine and/or heroin deaths represented 33.5% of all fatal drug/poison overdoses in Virginia in 2014

Table 5.17 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination, 2014

Drug Combination	Deaths
Cocaine	93
Cocaine and Heroin	51
Heroin	188
Total Deaths	**332**
Non-Cocaine or Heroin Combination Deaths	660
TOTAL DRUG/POISON DEATHS	**992**

Table 5.18 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination and OCME District, 2014

Drug Combination	Central	Northern	Tidewater	Western	Total Cases
Cocaine	22	18	28	25	**93**
Cocaine and Heroin	7	17	22	5	**51**
Heroin	64	68	44	12	**188**
TOTAL DEATHS	**93**	**103**	**94**	**42**	**332**

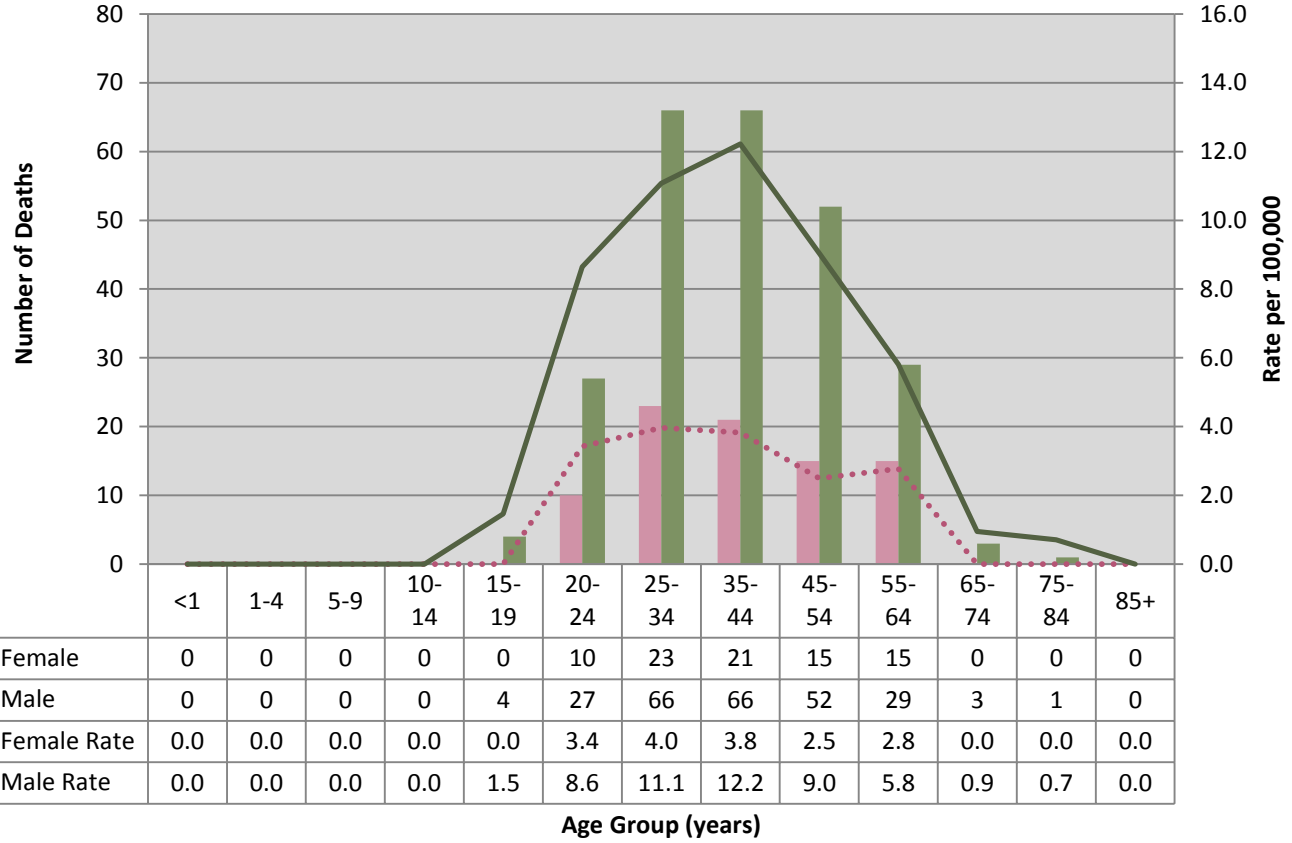
Table 5.19 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination and Race/Ethnicity, 2014

Drug Combination	Asian	Black	Hispanic	Native American	White	Other	TOTAL
Cocaine	0	31	2	0	59	1	**93**
Cocaine and Heroin	1	13	0	1	36	0	**51**
Heroin	2	28	4	0	153	1	**188**
TOTAL DEATHS	**3**	**72**	**6**	**1**	**248**	**2**	**332**

Table 5.20 Number of Fatal Cocaine and/or Heroin Overdoses by Drug Combination and Gender, 2014

Drug Combination	Female	Male	Total Cases
Cocaine	35	58	**93**
Cocaine and Heroin	9	42	**51**
Heroin	40	148	**188**
TOTAL DEATHS	**84**	**248**	**332**

Figure 5.23 Number and Rate of Fatal Cocaine and/or Heroin Combination Deaths by Age Group and Gender, 2014



	<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	0	10	23	21	15	15	0	0	0
Male	0	0	0	0	4	27	66	66	52	29	3	1	0
Female Rate	0.0	0.0	0.0	0.0	0.0	3.4	4.0	3.8	2.5	2.8	0.0	0.0	0.0
Male Rate	0.0	0.0	0.0	0.0	1.5	8.6	11.1	12.2	9.0	5.8	0.9	0.7	0.0

Table 5.21 Number of Fatal Cocaine and/or Heroin Combination Deaths by Whether Alcohol Caused Death, 2014

	Whether Alcohol Caused Death			
Drug Combination	Yes	Contributed	No	Total Cases
Cocaine	10	0	83	**93**
Cocaine and Heroin	21	3	27	**51**
Heroin	38	6	144	**188**
TOTAL DEATHS	**69**	**9**	**254**	**332**

Table 5.22 Number of Fatal Cocaine and/or Heroin Combination Death by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	3	9.1
Albemarle County	3	2.9
Alexandria City	2	1.3
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	4	1.8
Augusta County	2	2.7
Bath County	0	0.0
Bedford County	1	1.3
Bland County	1	15.1
Botetourt County	1	3.0
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	0	0.0
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	0	0.0
Chesapeake City	14	6.0
Chesterfield County	11	3.3
Clarke County	0	0.0
Colonial Heights City	0	0.0

Locality of Residence	Total Cases	Rate
Covington City	0	0.0
Craig County	0	0.0
Culpeper County	9	18.3
Cumberland County	0	0.0
Danville City	3	7.1
Dickenson County	0	0.0
Dinwiddie County	1	3.6
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	1	4.1
Fairfax County	24	2.1
Falls Church City	0	0.0
Fauquier County	4	5.9
Floyd County	1	6.4
Fluvanna County	2	7.7
Franklin City	1	11.7
Franklin County	1	1.8
Frederick County	4	4.9
Fredericksburg City	1	3.5
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	1	2.7
Goochland County	2	9.1
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	6	4.4

Locality of Residence	Total Cases	Rate
Hanover County	6	5.9
Harrisonburg City	0	0.0
Henrico County	19	5.9
Henry County	1	1.9
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	2	5.6
James City County	1	1.4
King and Queen County	1	13.9
King George County	1	3.9
King William County	0	0.0
Lancaster County	1	9.1
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	10	2.8
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	1	1.3
Madison County	0	0.0
Manassas	5	11.9
Manassas Park	1	6.6
Martinsville City	1	7.3
Mathews County	0	0.0
Mecklenburg County	2	6.4
Middlesex County	0	0.0
Montgomery County	1	1.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	9	4.9
Norfolk City	15	6.1
Northampton County	0	0.0

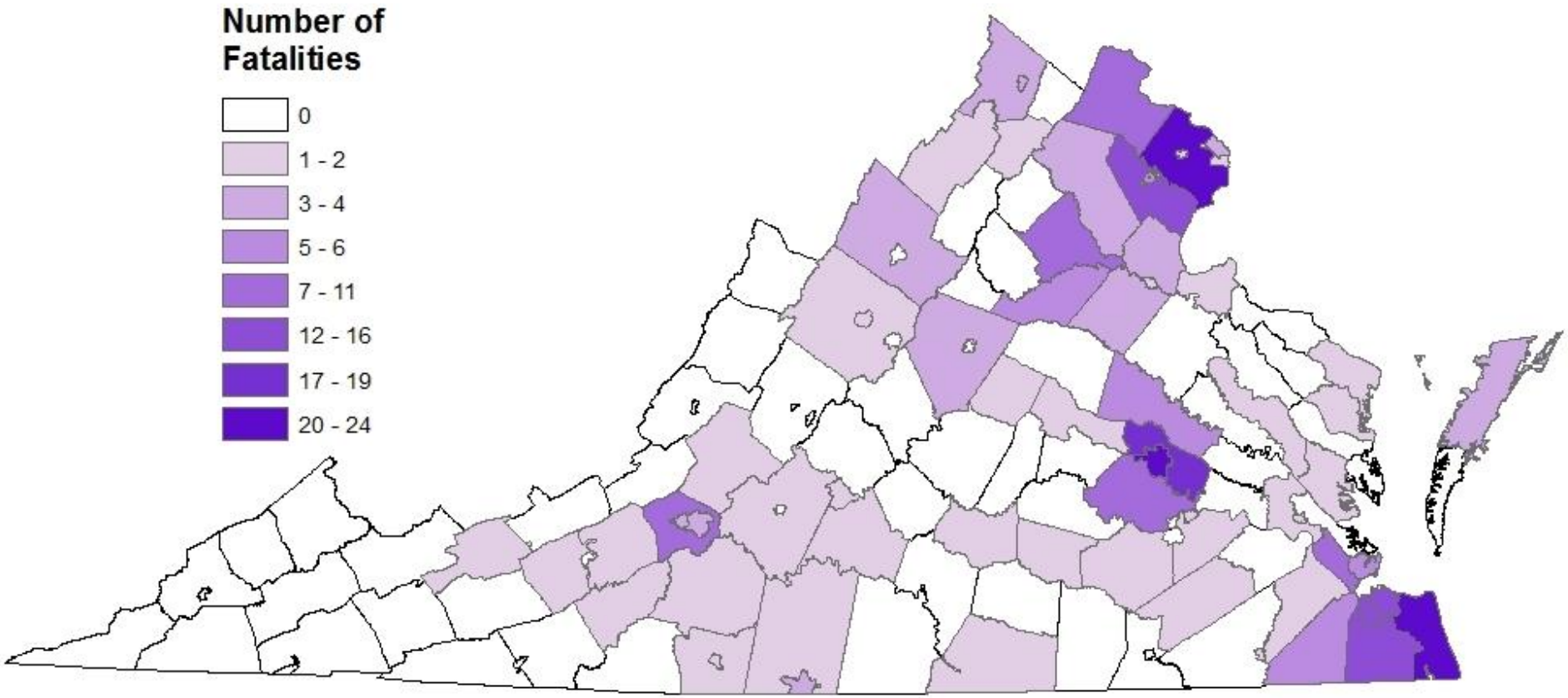
Locality of Residence	Total Cases	Rate
Northumberland County	1	8.2
Norton City	0	0.0
Nottoway County	2	12.8
Orange County	5	14.3
Page County	0	0.0
Patrick County	0	0.0
Petersburg City	0	0.0
Pittsylvania County	2	3.2
Poquoson City	0	0.0
Portsmouth City	16	16.7
Powhatan County	0	0.0
Prince Edward County	1	4.3
Prince George County	1	2.7
Prince William County	16	3.6
Pulaski County	1	2.9
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	22	10.1
Richmond County	0	0.0
Roanoke City	4	4.0
Roanoke County	8	8.5
Rockbridge County	0	0.0
Rockingham County	3	3.8
Russell County	0	0.0
Salem City	4	15.7
Scott County	0	0.0
Shenandoah County	2	4.6
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	4	3.1
Stafford County	4	2.9

Locality of Residence	Total Cases	Rate
Staunton City	1	4.1
Suffolk City	5	5.8
Surry County	0	0.0
Sussex County	1	8.5
Tazewell County	0	0.0
Virginia Beach City	23	5.1
Warren County	2	5.1
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0

Locality of Residence	Total Cases	Rate
Williamsburg City	2	13.6
Winchester City	4	14.5
Wise County	0	0.0
Wythe County	0	0.0
York County	0	0.0
Subtotal (in-state)	316	3.8
Out of State	11	ND
Unknown	5	ND
Subtotal (out-of-state)	16	ND
TOTAL	**332**	**4.0**

Note: No denominator is represented by ND.

Map 5.13 Number of Fatal Cocaine and/or Heroin Overdoses by Locality of Residence, 2014



Map 5.14 Rates of Fatal Cocaine and/or Heroin Overdose by Locality of Residence, 2014

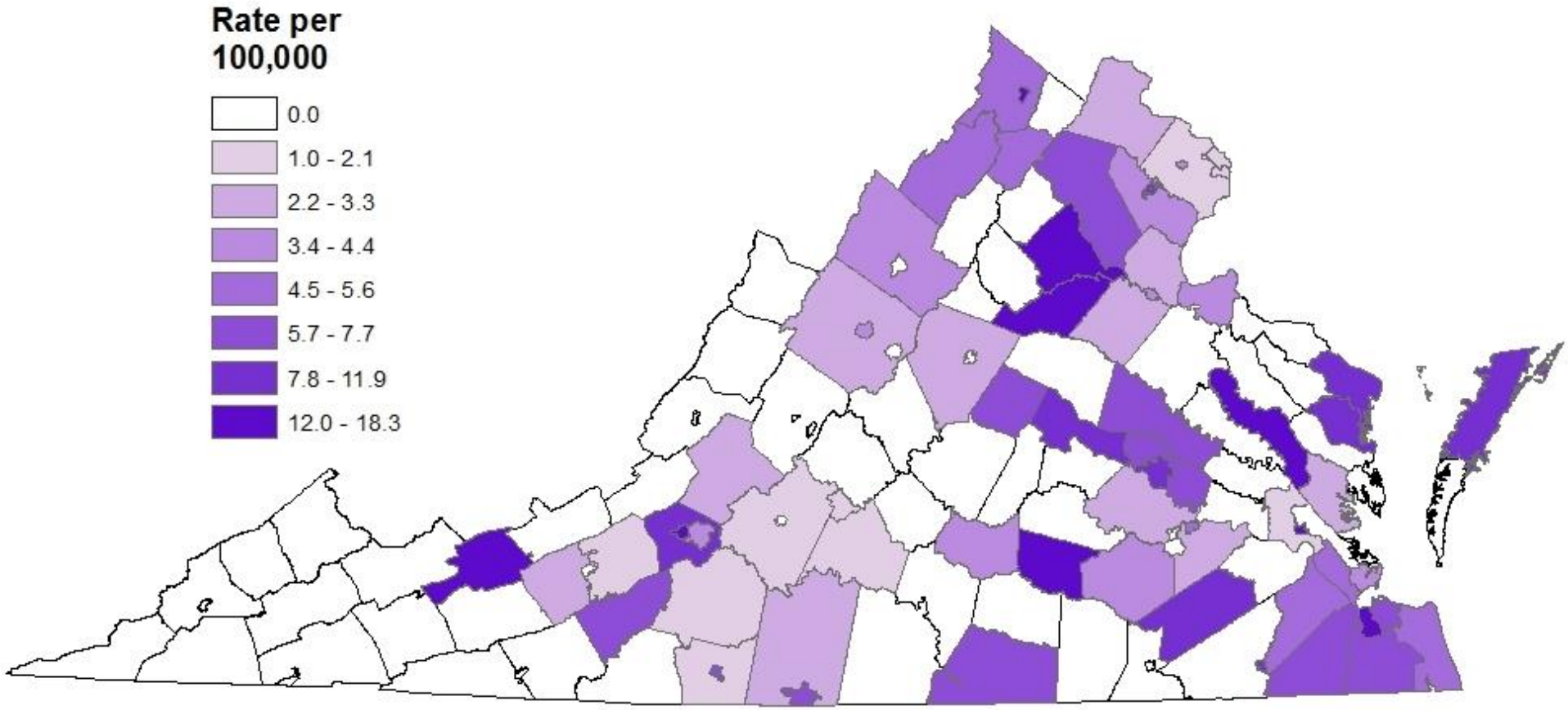


Table 5.27 Number and Rate of Fatal Cocaine and/or Heroin Overdoses by Locality of Injury, 2014

Locality of Injury	Total Cases	Rate
Accomack County	3	9.1
Albemarle County	2	1.9
Alexandria City	4	2.7
Alleghany County	0	0.0
Amelia County	0	0.0
Amherst County	0	0.0
Appomattox County	0	0.0
Arlington County	7	3.1
Augusta County	2	2.7
Bath County	0	0.0
Bedford County	1	1.3
Bland County	1	15.1
Botetourt County	2	6.0
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	0	0.0
Carroll County	0	0.0
Charles City County	0	0.0
Charlotte County	0	0.0
Charlottesville City	1	2.2
Chesapeake City	18	7.7
Chesterfield County	11	3.3
Clarke County	0	0.0
Colonial Heights City	0	0.0
Covington City	0	0.0

Locality of Injury	Total Cases	Rate
Craig County	0	0.0
Culpeper County	7	14.2
Cumberland County	0	0.0
Danville City	5	11.8
Dickenson County	0	0.0
Dinwiddie County	1	3.6
Emporia City	0	0.0
Essex County	0	0.0
Fairfax City	1	4.1
Fairfax County	23	2.0
Falls Church City	0	0.0
Fauquier County	4	5.9
Floyd County	1	6.4
Fluvanna County	1	3.8
Franklin City	1	11.7
Franklin County	1	1.8
Frederick County	9	10.9
Fredericksburg City	3	10.6
Galax City	0	0.0
Giles County	0	0.0
Gloucester County	0	0.0
Goochland County	1	4.6
Grayson County	0	0.0
Greene County	0	0.0
Greensville County	0	0.0
Halifax County	0	0.0
Hampton City	7	5.1
Hanover County	5	4.9
Harrisonburg City	1	1.9

Locality of Injury	Total Cases	Rate
Henrico County	18	5.6
Henry County	1	1.9
Highland County	0	0.0
Hopewell City	1	4.5
Isle of Wight County	1	2.8
James City County	2	2.8
King and Queen County	0	0.0
King George County	3	11.8
King William County	0	0.0
Lancaster County	0	0.0
Lee County	0	0.0
Lexington City	0	0.0
Loudoun County	9	2.5
Louisa County	0	0.0
Lunenburg County	0	0.0
Lynchburg City	1	1.3
Madison County	0	0.0
Manassas	4	9.5
Manassas Park	2	13.2
Martinsville City	1	7.3
Mathews County	1	11.3
Mecklenburg County	2	6.4
Middlesex County	0	0.0
Montgomery County	1	1.0
Nelson County	0	0.0
New Kent County	0	0.0
Newport News City	9	4.9
Norfolk City	14	5.7
Northampton County	0	0.0
Northumberland County	1	8.2
Norton City	0	0.0

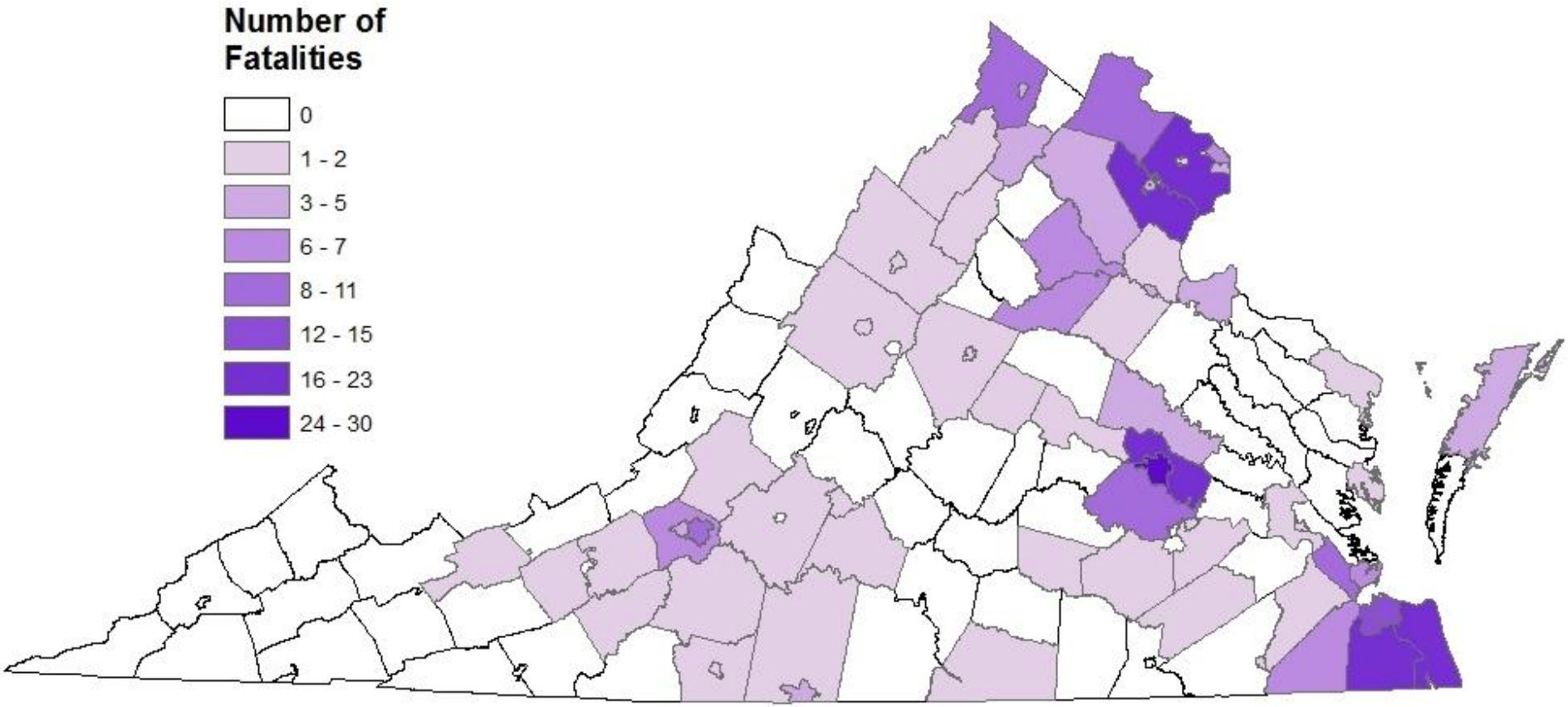
Locality of Injury	Total Cases	Rate
Nottoway County	1	6.4
Orange County	7	20.0
Page County	1	4.2
Patrick County	0	0.0
Petersburg City	0	0.0
Pittsylvania County	1	1.6
Poquoson City	0	0.0
Portsmouth City	15	15.6
Powhatan County	0	0.0
Prince Edward County	0	0.0
Prince George County	1	2.7
Prince William County	18	4.0
Pulaski County	1	2.9
Radford City	0	0.0
Rappahannock County	0	0.0
Richmond City	30	13.8
Richmond County	0	0.0
Roanoke City	9	9.1
Roanoke County	6	6.4
Rockbridge County	0	0.0
Rockingham County	2	2.6
Russell County	0	0.0
Salem City	3	11.8
Scott County	0	0.0
Shenandoah County	1	2.3
Smyth County	0	0.0
Southampton County	0	0.0
Spotsylvania County	1	0.8
Stafford County	2	1.4
Staunton City	1	4.1
Suffolk City	6	6.9

Locality of Injury	Total Cases	Rate
Surry County	0	0.0
Sussex County	1	8.5
Tazewell County	0	0.0
Virginia Beach City	19	4.2
Warren County	3	7.7
Washington County	0	0.0
Waynesboro City	0	0.0
Westmoreland County	0	0.0
Williamsburg City	2	13.6

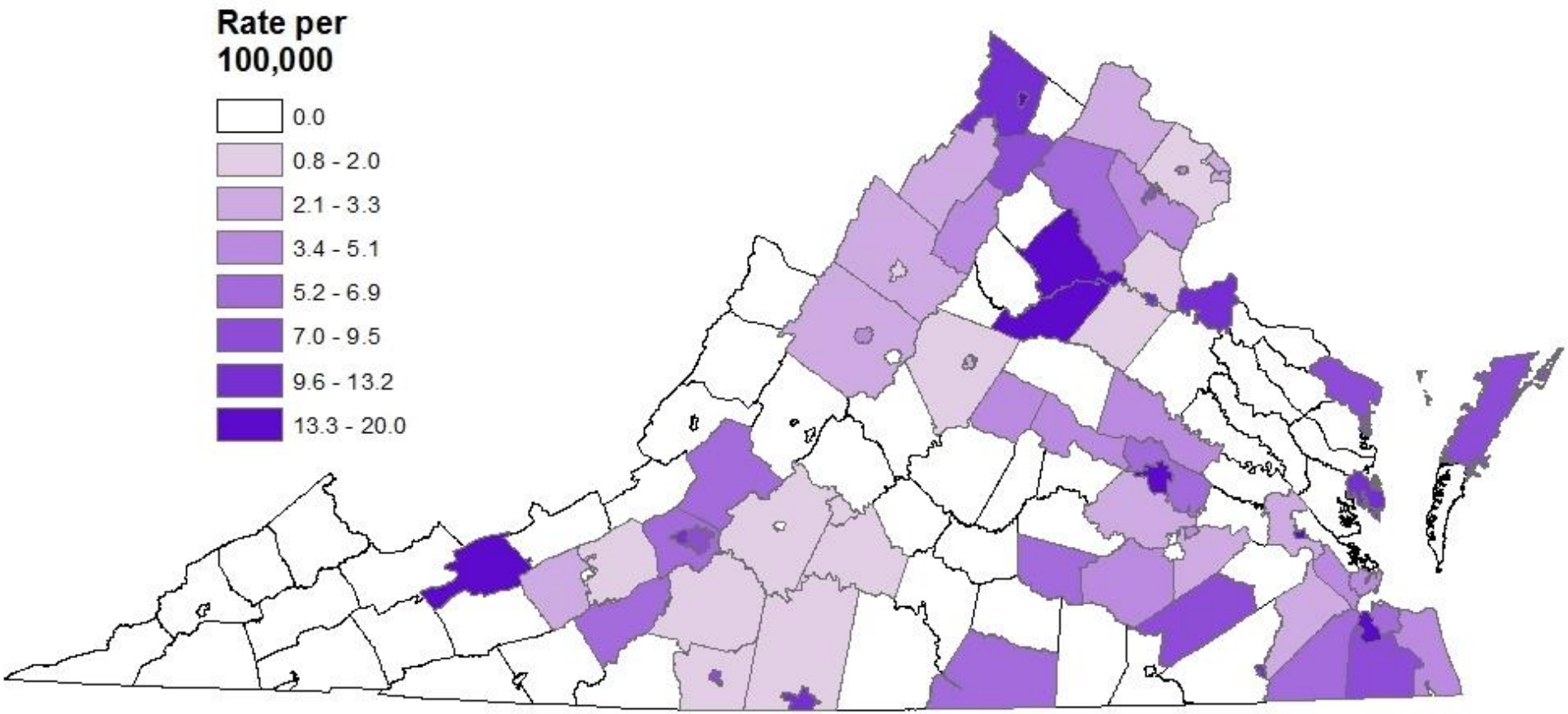
Locality of Injury	Total Cases	Rate
Winchester City	4	14.5
Wise County	0	0.0
Wythe County	0	0.0
York County	0	0.0
Subtotal (in-state)	330	4.0
Unknown	2	ND
Subtotal (out-of-state)	2	ND
TOTAL	**332**	**4.0**

Note: No denominator is represented by ND.

Map 5.15 Number of Fatal Cocaine and/or Heroin Overdoses by Locality of Injury, 2014



Map 5.16 Rates of Fatal Cocaine and/or Heroin Overdoses by Locality of Injury, 2014



SECTION 6: GUN RELATED DEATHS (N=901)

Gun related fatalities continue to be one of the top three methods of unnatural death in Virginia since 2007. Although gun related homicides have slowly begun to decline, suicides by gun have slowly begun to increase.

- The majority (70.5%) of gun related deaths were due to suicide
- The Northern OCME has the lowest number and the lowest rate of gun related death of all manners (6.3 deaths per 100,000 persons), compared to all other OCME district offices
- Males (84.2%), 25-34 year olds (17.9%), and whites (71.0%) had the largest number of gun related deaths, however black males and males 85 years of age and older had the highest rate of gun-related death (23.5 deaths and 39.1 deaths per 100,000 persons, respectively)

Figure 6.1 Number and Rate of Gun Related Deaths by Year of Death, 2007-2014

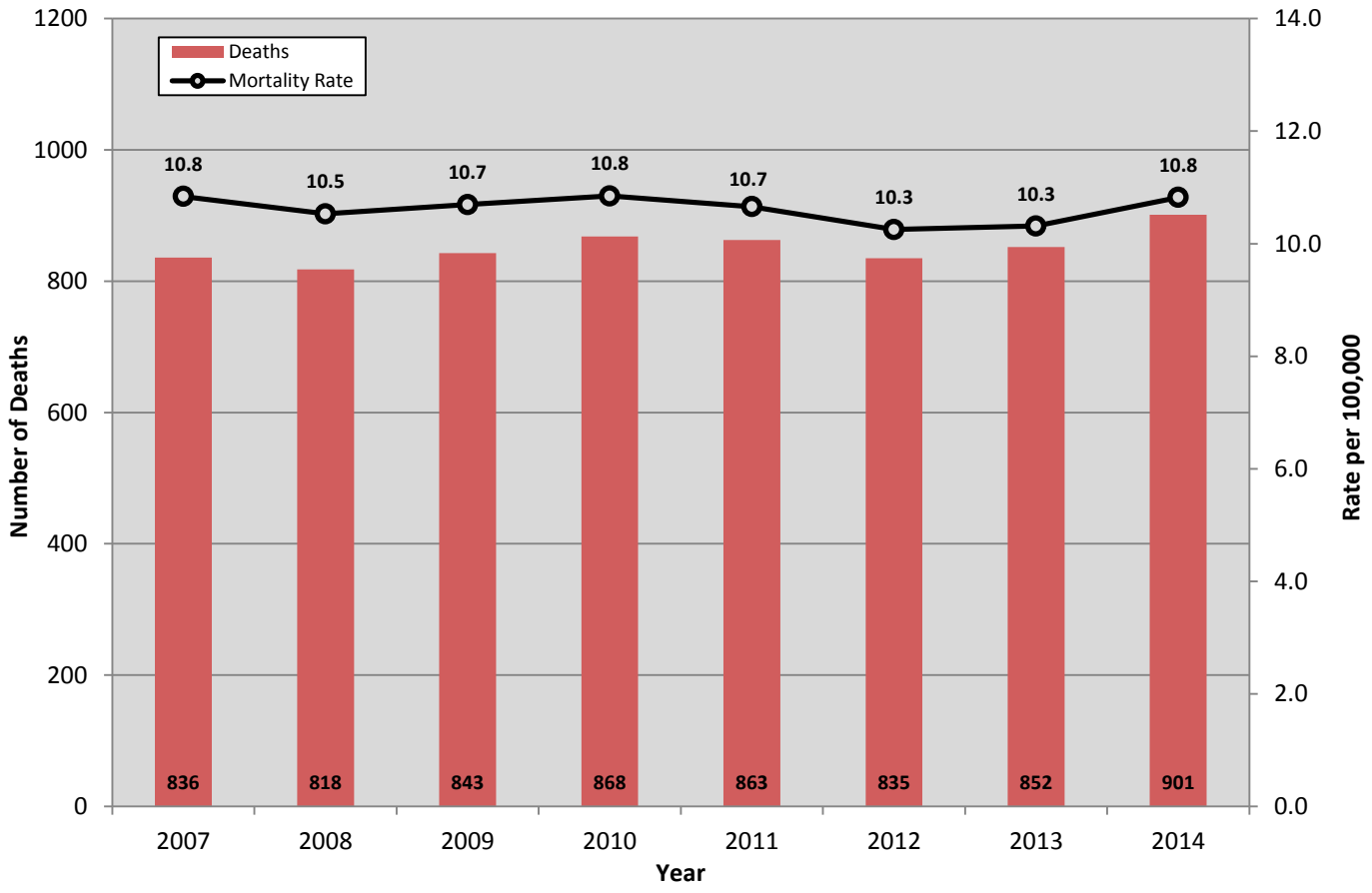
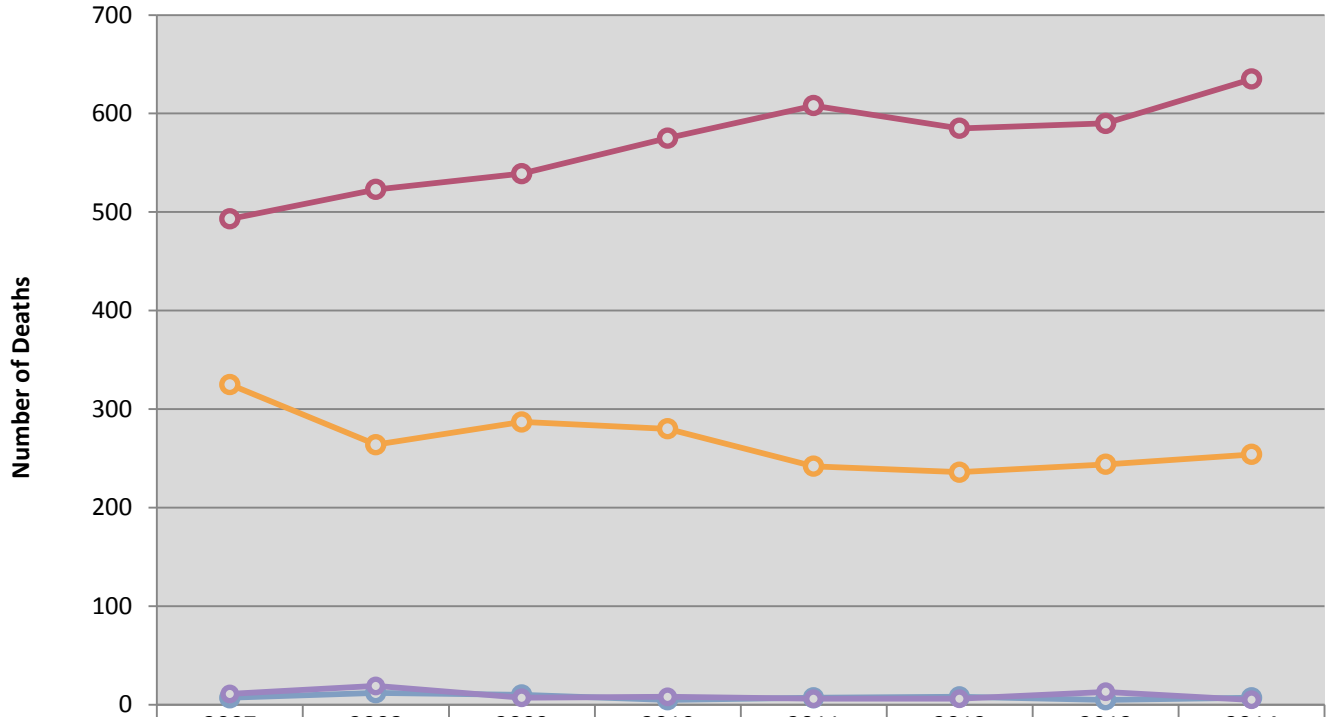


Figure 6.2 Number of Gun Related Deaths by Year and Manner of Death, 2007-2014



	2007	2008	2009	2010	2011	2012	2013	2014
Accident	7	12	10	5	7	8	5	7
Homicide	325	264	287	280	242	236	244	254
Suicide	493	523	539	575	608	585	590	635
Undetermined	11	19	7	8	6	6	13	5

Figure 6.3 Percentage of Gun Related Deaths by Manner of Death, 2014

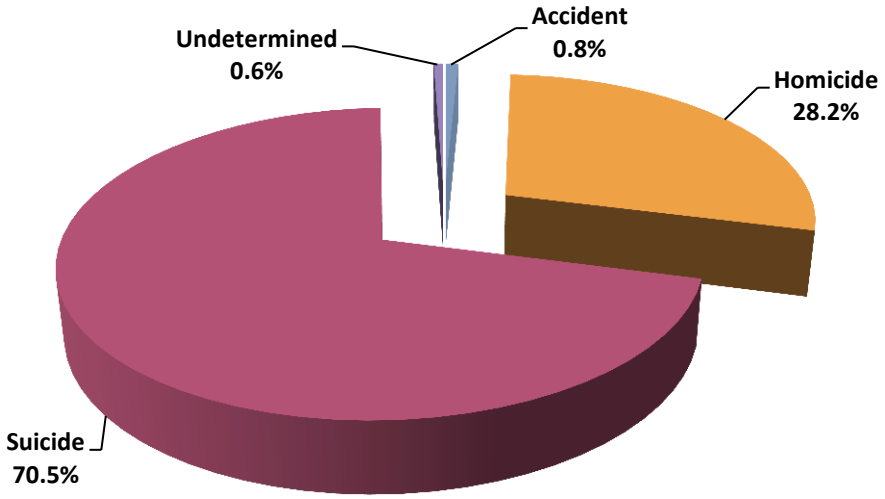


Table 6.1 Number and Rate of Gun Related Deaths by OCME District and Manner of Death, 2014

Manner of Death	Central		Northern		Tidewater		Western		TOTAL	
	n	rate	n	rate	n	rate	n	rate	n	rate
Accident	3	0.1	0	0.0	1	0.1	3	0.2	**7**	**0.1**
Homicide	84	3.8	30	1.1	95	5.9	45	2.7	**254**	**3.1**
Suicide	188	8.4	146	5.2	124	7.7	177	10.7	**635**	**7.6**
Undetermined	1	0.0	1	0.0	1	0.1	2	0.1	**5**	**0.1**
TOTAL	**276**	**12.3**	**177**	**6.3**	**221**	**13.7**	**227**	**13.8**	**901**	**10.8**

Table 6.2 Number of Gun Related Deaths by Gun Type and Manner of Death, 2014

Manner of Death	Handgun	Multiple*	Rifle	Shotgun	Other	Unknown	TOTAL
Accident	5	0	1	0	1	0	7
Homicide	197	3	13	11	0	30	254
Suicide	499	0	53	81	0	2	635
Undetermined	4	0	1	0	0	0	5
TOTAL	**705**	**3**	**68**	**92**	**1**	**32**	**901**

* 'Multiple' indicates the decedent died of more than one gun; either more than one gun type (e.g. a handgun and a shotgun) or same gun type but multiple weapons (e.g. two handguns)

Figure 6.4 Percentage of Gun Related Deaths by Gender, 2014

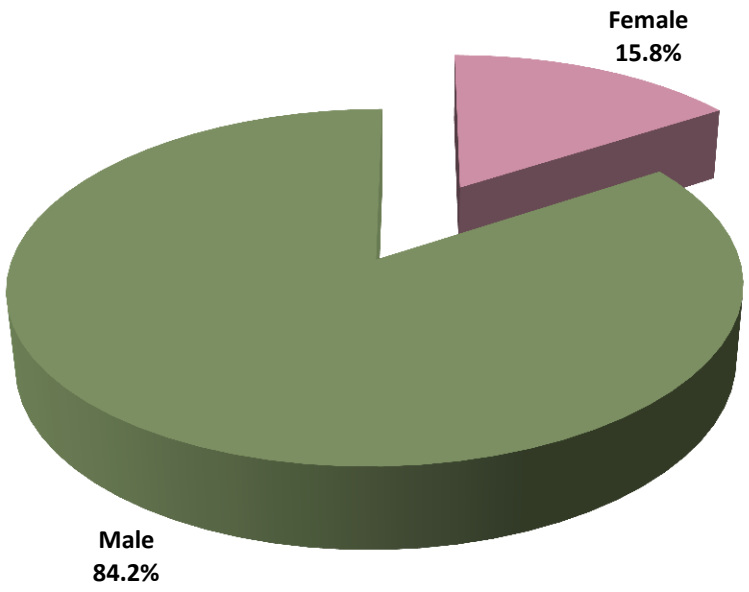
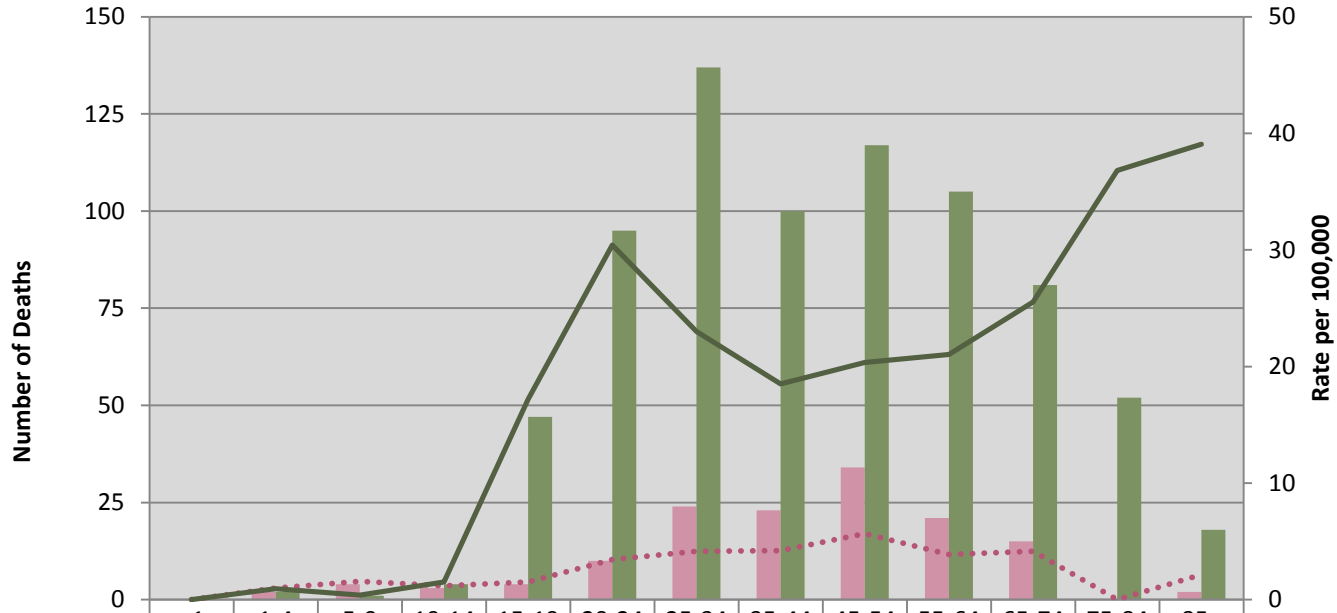


Figure 6.5 Number and Rate of Gun Related Deaths by Age Group and Gender, 2014



	<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	2	4	3	4	10	24	23	34	21	15	0	2
Male	0	2	1	4	47	95	137	100	117	105	81	52	18
Female Rate	0.0	1.0	1.6	1.2	1.5	3.4	4.1	4.2	5.7	3.9	4.1	0.0	2.2
Male Rate	0.0	0.9	0.4	1.5	17.2	30.4	23.0	18.5	20.3	21.0	25.5	36.8	39.1

Age Group (years)

Figure 6.6 Percentage of Gun Related Deaths by Race/Ethnicity, 2014

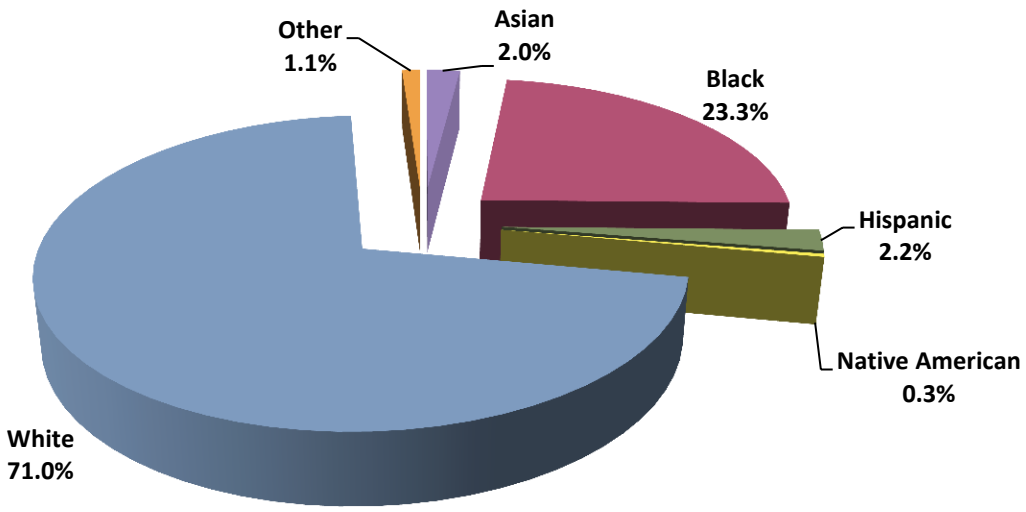
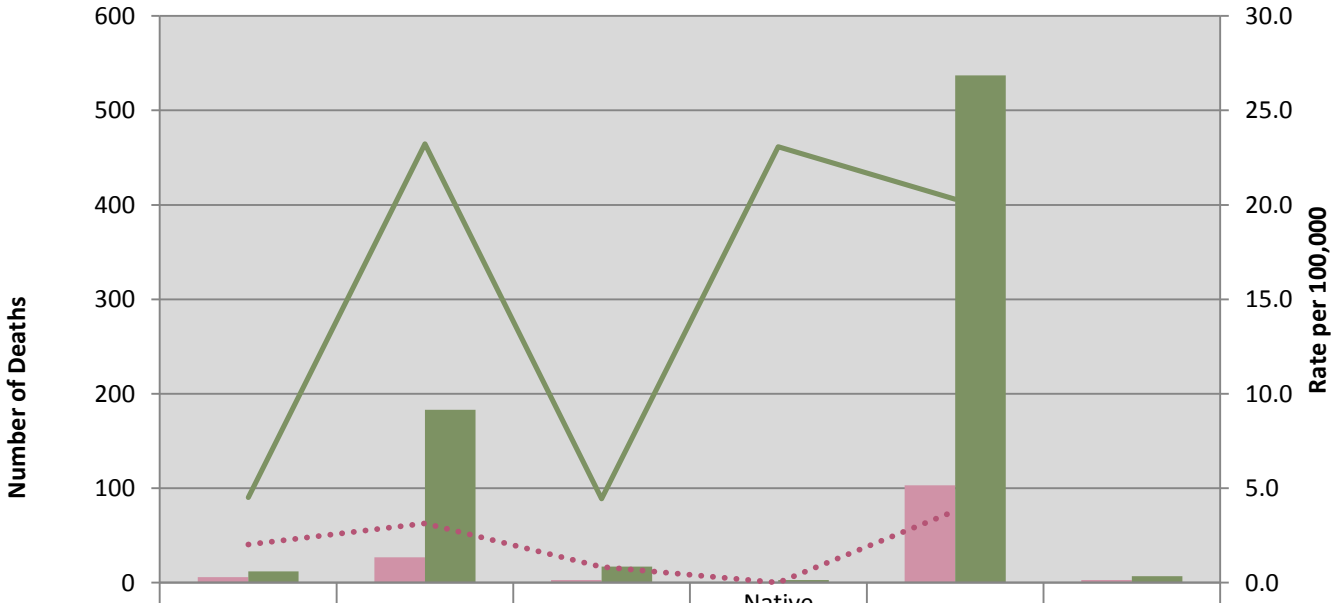


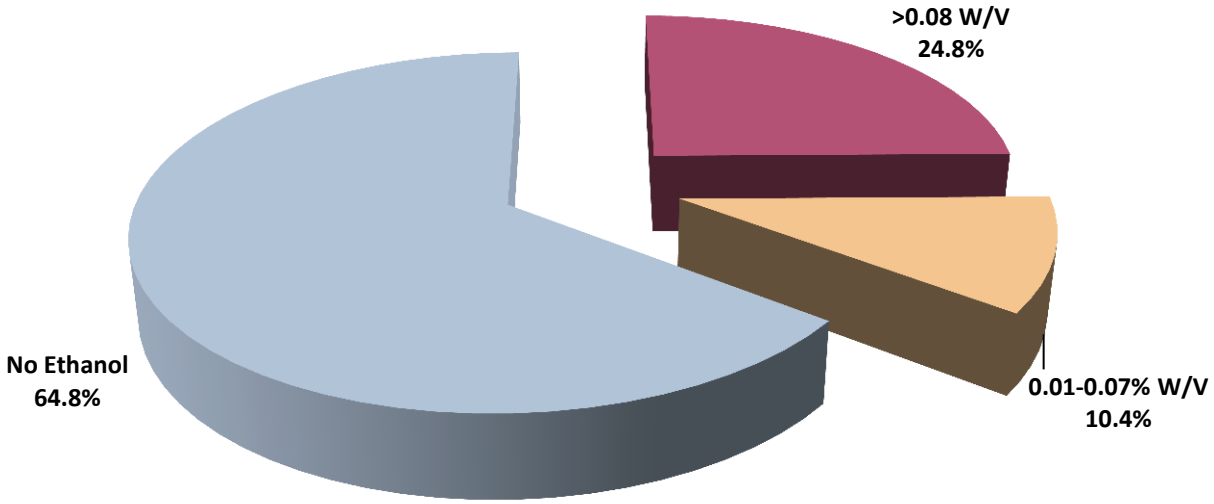
Figure 6.7 Number and Rate of Gun Related Deaths by Race/Ethnicity and Gender, 2014



	Asian	Black	Hispanic	Native American	White	Other
Female	6	27	3	0	103	3
Male	12	183	17	3	537	7
Female Rate	2.0	3.1	0.8	0.0	3.8	*
Male Rate	4.5	23.2	4.4	23.1	20.3	*

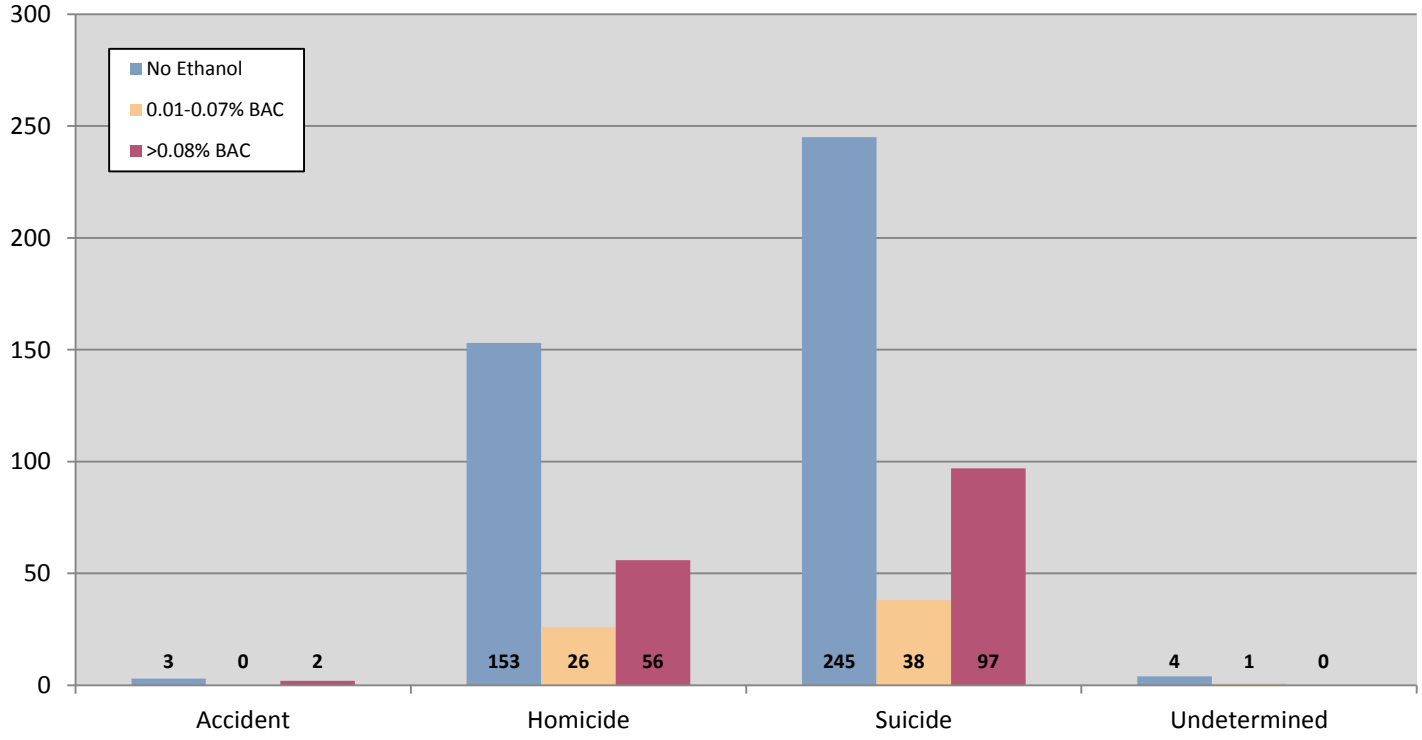
*No rate can be calculated
** Rates calculated from small case counts (n<5) are considered unreliable and should be interpreted with caution (Native Americans)

Figure 6.8 Percentage of Gun Related Deaths by Ethanol Level (N=625), 2014



Note: Of the 901 gun related fatalities, 30.6% (n=276) did not receive alcohol testing.

Figure 6.9 Number of Gun Related Deaths by Alcohol Level and Manner of Death (N=625), 2014



Note: Of the 901 gun related fatalities, 30.6% (n=276) did not receive alcohol testing.

Figure 6.10 Number of Gun Related Deaths by Month of Death, 2014

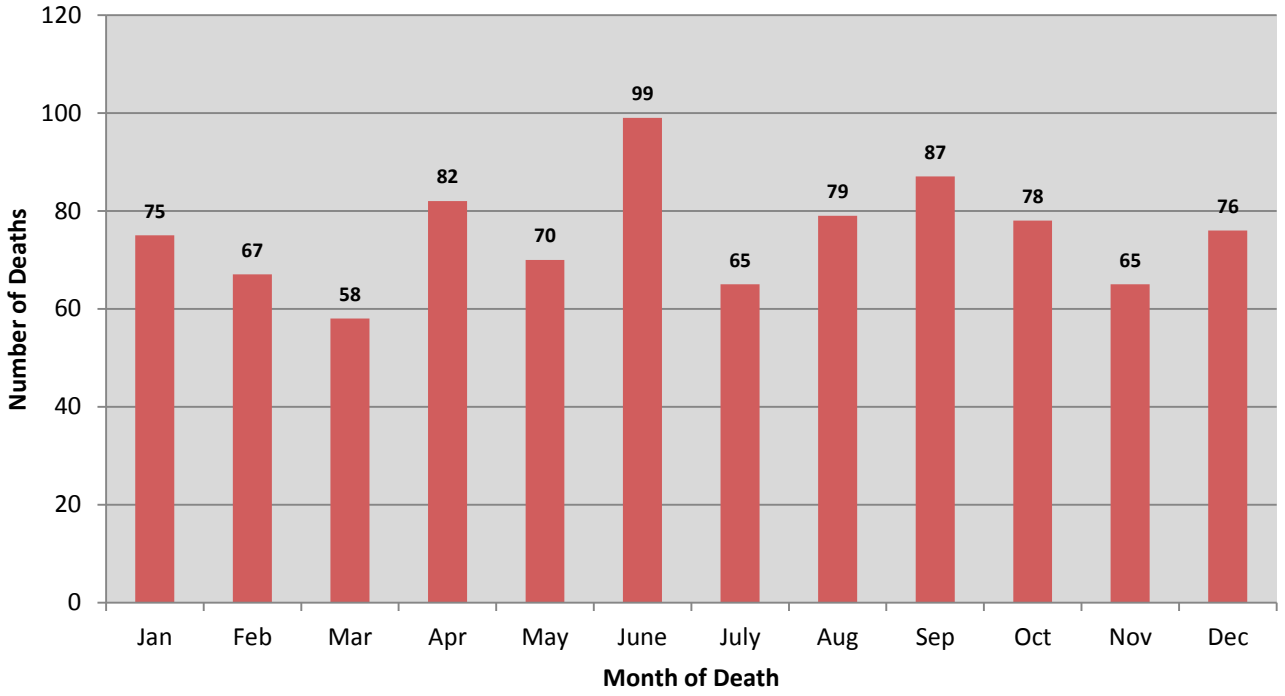


Figure 6.11 Number of Gun Related Deaths by Day of Week, 2014

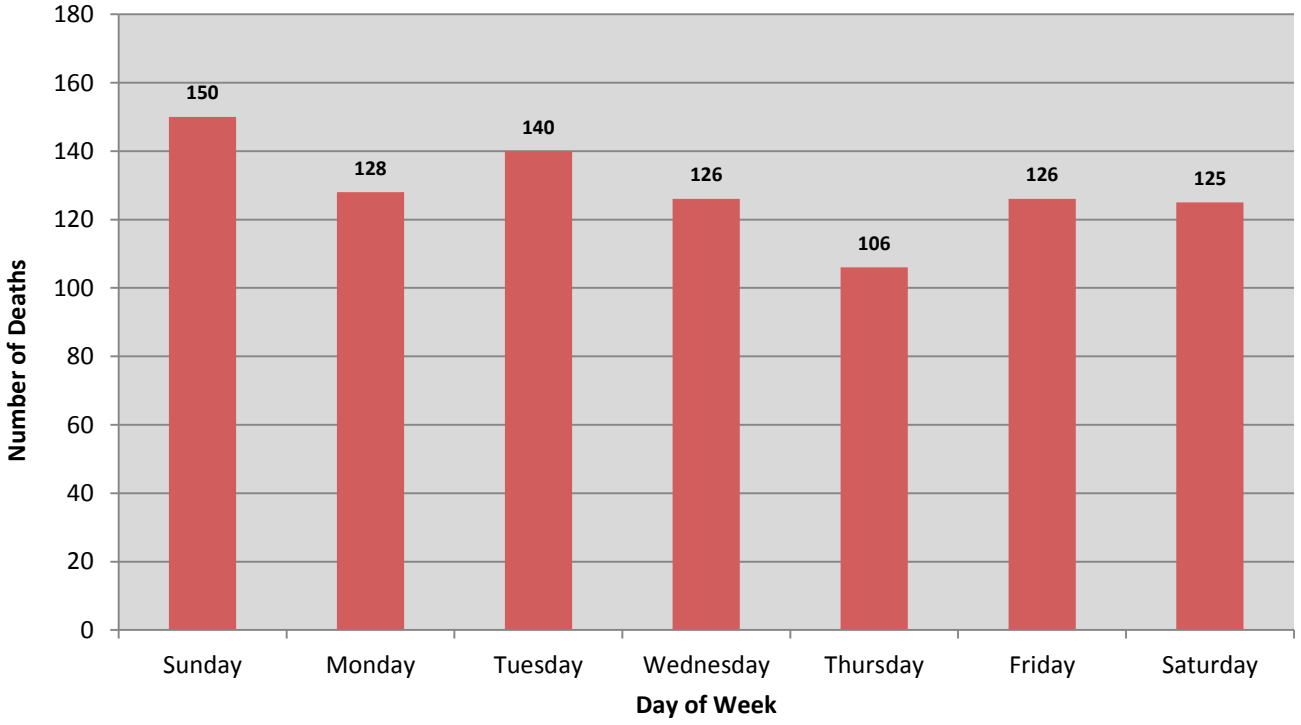


Table 6.3 Number and Rate of Gun Related Deaths by Locality of Residence, 2014

Locality of Residence	Total Cases	Rate
Accomack County	4	12.1
Albemarle County	8	7.7
Alexandria City	6	4.0
Alleghany County	1	6.3
Amelia County	4	31.1
Amherst County	9	28.1
Appomattox County	2	13.1
Arlington County	4	1.8
Augusta County	16	21.7
Bath County	2	43.8
Bedford County	10	13.1
Bland County	3	45.3
Botetourt County	1	3.0
Bristol City	2	11.6
Brunswick County	2	12.1
Buchanan County	5	21.6
Buckingham County	3	17.7
Buena Vista City	0	0.0
Campbell County	6	10.9
Caroline County	8	26.9
Carroll County	5	16.9
Charles City County	1	14.2
Charlotte County	2	16.4
Charlottesville City	4	8.8
Chesapeake City	21	9.0
Chesterfield County	42	12.6
Clarke County	3	20.8
Colonial Heights City	1	5.6
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	11	22.4
Cumberland County	1	10.2
Danville City	5	11.8
Dickenson County	3	19.6
Dinwiddie County	4	14.4

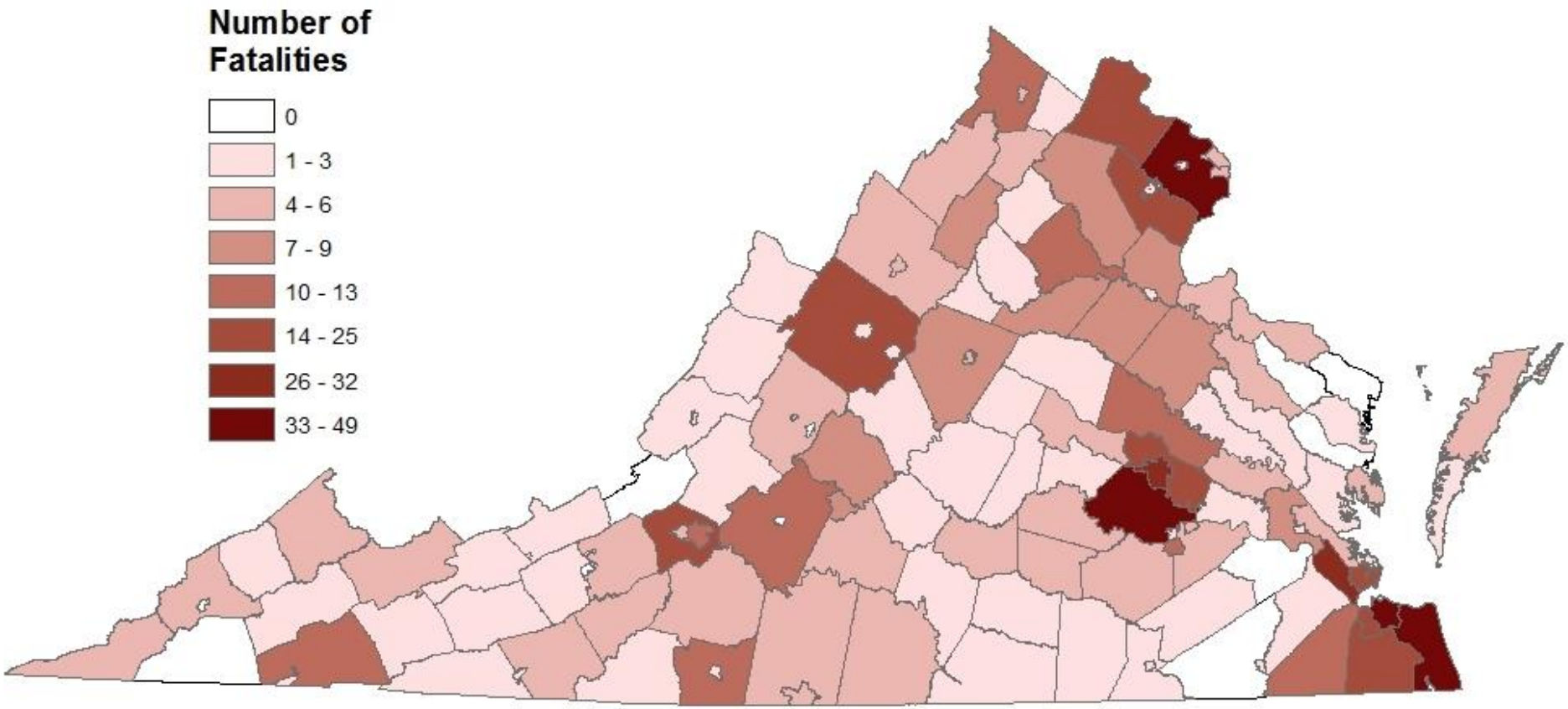
Locality of Residence	Total Cases	Rate
Emporia City	2	36.6
Essex County	4	36.0
Fairfax City	2	8.2
Fairfax County	42	3.7
Falls Church City	0	0.0
Fauquier County	7	10.3
Floyd County	6	38.5
Fluvanna County	2	7.7
Franklin City	2	23.5
Franklin County	5	8.9
Frederick County	10	12.1
Fredericksburg City	3	10.6
Galax City	1	14.3
Giles County	3	17.8
Gloucester County	3	8.1
Goochland County	4	18.2
Grayson County	3	19.9
Greene County	3	15.8
Greensville County	2	17.1
Halifax County	5	14.2
Hampton City	18	13.2
Hanover County	12	11.8
Harrisonburg City	5	9.5
Henrico County	25	7.8
Henry County	13	25.0
Highland County	2	89.0
Hopewell City	6	27.0
Isle of Wight County	3	8.3
James City County	7	9.6
King and Queen County	1	13.9
King George County	4	15.8
King William County	3	18.5
Lancaster County	2	18.1
Lee County	5	20.0
Lexington City	1	13.7

Locality of Residence	Total Cases	Rate
Loudoun County	23	6.3
Louisa County	1	2.9
Lunenburg County	1	8.0
Lynchburg City	9	11.4
Madison County	3	22.8
Manassas	3	7.1
Manassas Park	1	6.6
Martinsville City	2	14.6
Mathews County	4	45.3
Mecklenburg County	3	9.6
Middlesex County	0	0.0
Montgomery County	6	6.2
Nelson County	3	20.2
New Kent County	4	20.0
Newport News City	32	17.5
Norfolk City	41	16.7
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	5	32.1
Orange County	8	22.8
Page County	7	29.4
Patrick County	2	11.0
Petersburg City	10	30.6
Pittsylvania County	5	8.0
Poquoson City	1	8.3
Portsmouth City	20	20.8
Powhatan County	1	3.5
Prince Edward County	4	17.3
Prince George County	4	10.7
Prince William County	20	4.5
Pulaski County	3	8.7
Radford City	0	0.0
Rappahannock County	1	13.6
Richmond City	32	14.7
Richmond County	0	0.0

Locality of Residence	Total Cases	Rate
Roanoke City	12	12.1
Roanoke County	16	17.1
Rockbridge County	4	17.9
Rockingham County	6	7.7
Russell County	3	10.7
Salem City	4	15.7
Scott County	0	0.0
Shenandoah County	5	11.6
Smyth County	3	9.5
Southampton County	0	0.0
Spotsylvania County	9	7.0
Stafford County	9	6.4
Staunton City	2	8.2
Suffolk City	10	11.5
Surry County	0	0.0
Sussex County	1	8.5
Tazewell County	5	11.5
Virginia Beach City	49	10.9
Warren County	5	12.8
Washington County	12	21.9
Waynesboro City	2	9.4
Westmoreland County	4	22.9
Williamsburg City	1	6.8
Winchester City	4	14.5
Wise County	6	15.0
Wythe County	3	10.3
York County	6	9.0
Subtotal (in-state)	**858**	**10.3**
Out of State	42	ND
Unknown	1	ND
Subtotal (out-of-state)	**43**	**ND**
TOTAL	**901**	**10.8**

Note: No denominator is represented by ND

Map 6.1 Number of Gun Related Deaths by Locality of Residence, 2014



Map 6.2 Rates of Gun Related Death by Locality of Residence, 2014

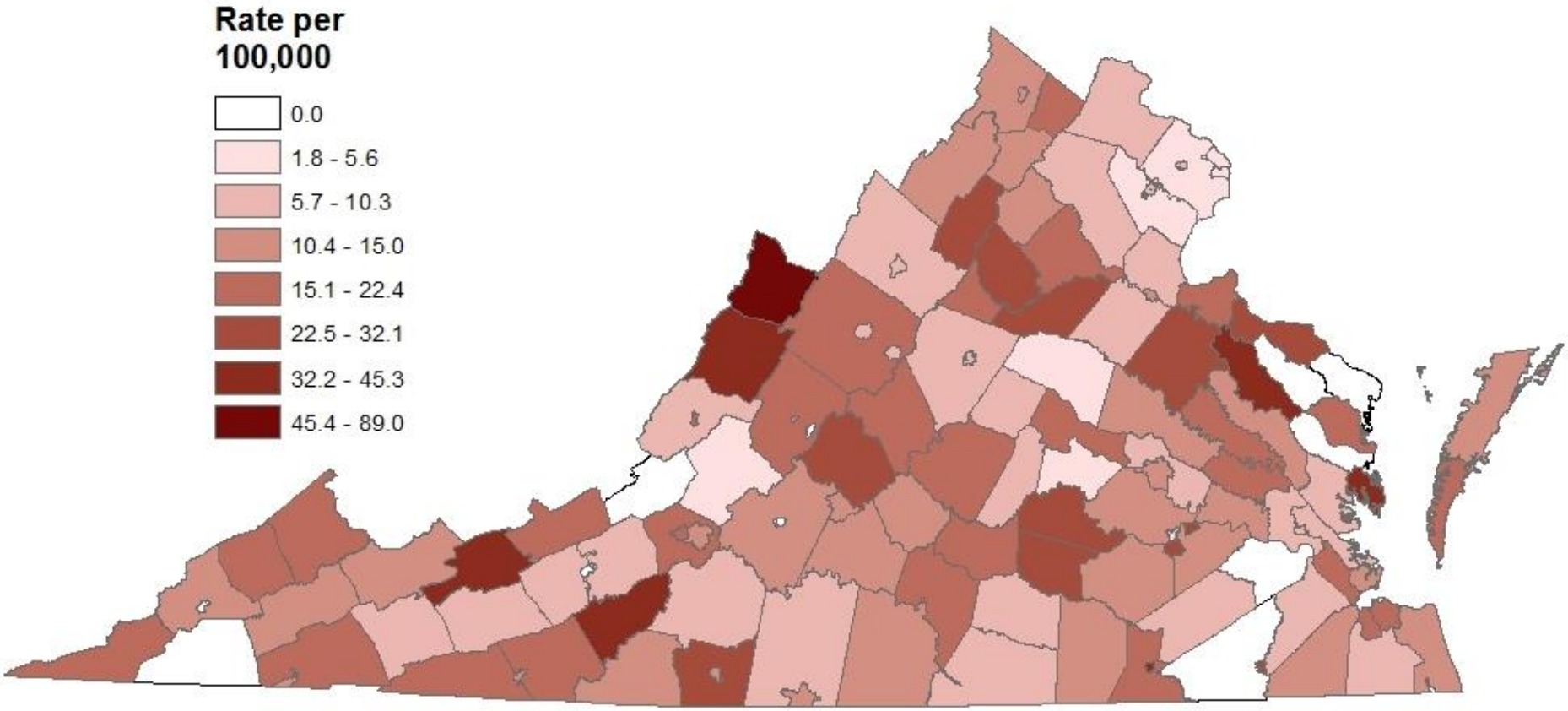


Table 6.4 Number and Rate of Gun Related Deaths by Locality of Injury, 2014

Locality of Injury	Total Cases	Rate
Accomack County	4	12.1
Albemarle County	10	9.6
Alexandria City	4	2.7
Alleghany County	1	6.3
Amelia County	5	38.9
Amherst County	10	31.2
Appomattox County	4	26.2
Arlington County	5	2.2
Augusta County	19	25.7
Bath County	2	43.8
Bedford County	11	14.4
Bland County	3	45.3
Botetourt County	0	0.0
Bristol City	2	11.6
Brunswick County	2	12.1
Buchanan County	5	21.6
Buckingham County	3	17.7
Buena Vista City	0	0.0
Campbell County	6	10.9
Caroline County	9	30.2
Carroll County	5	16.9
Charles City County	1	14.2
Charlotte County	1	8.2
Charlottesville City	4	8.8
Chesapeake City	19	8.1
Chesterfield County	34	10.2
Clarke County	3	20.8
Colonial Heights City	3	16.9
Covington City	1	17.2
Craig County	0	0.0
Culpeper County	9	18.3
Cumberland County	1	10.2
Danville City	6	14.1
Dickenson County	3	19.6
Dinwiddie County	2	7.2

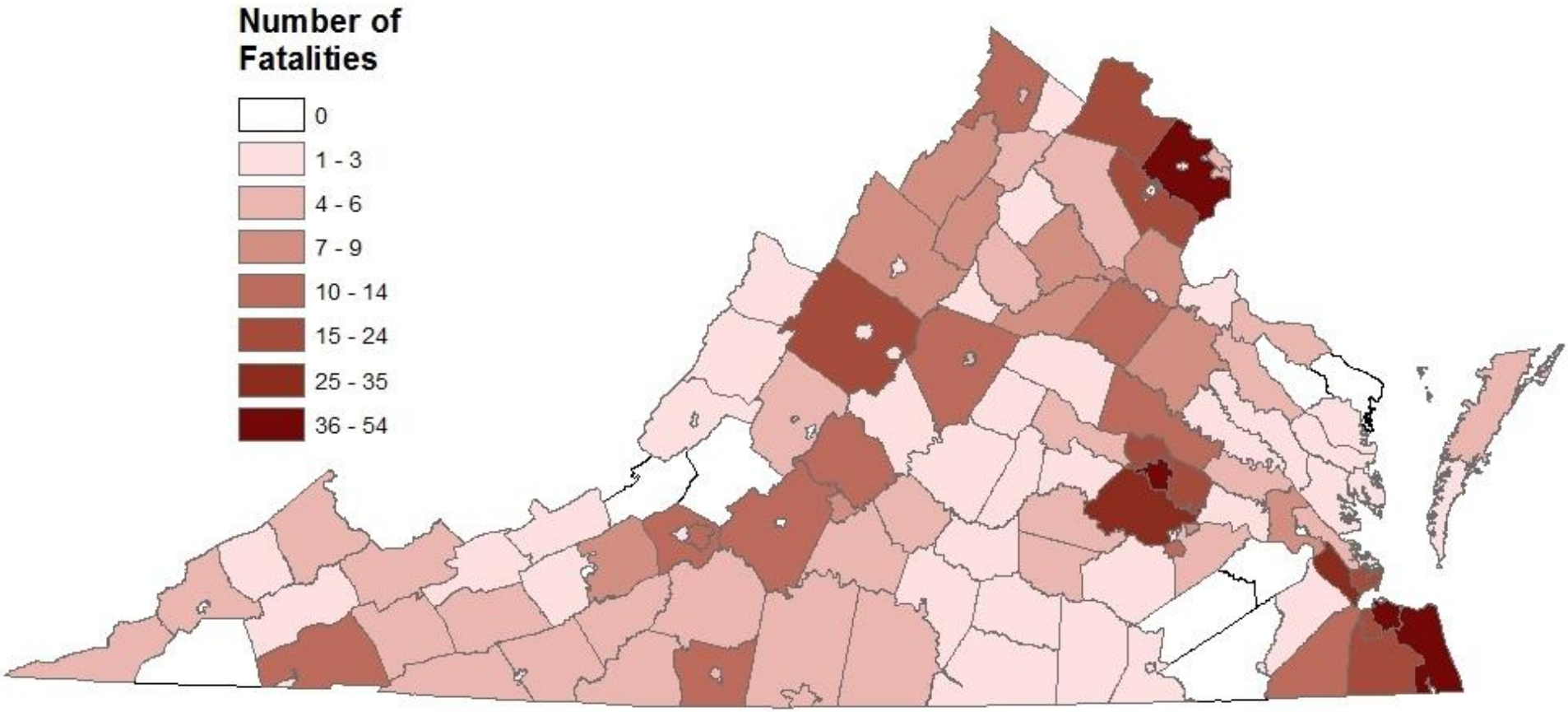
Locality of Injury	Total Cases	Rate
Emporia City	2	36.6
Essex County	5	45.0
Fairfax City	1	4.1
Fairfax County	49	4.3
Falls Church City	0	0.0
Fauquier County	6	8.8
Floyd County	5	32.1
Fluvanna County	2	7.7
Franklin City	2	23.5
Franklin County	6	10.6
Frederick County	10	12.1
Fredericksburg City	2	7.1
Galax City	1	14.3
Giles County	3	17.8
Gloucester County	2	5.4
Goochland County	5	22.8
Grayson County	4	26.5
Greene County	1	5.3
Greensville County	1	8.6
Halifax County	5	14.2
Hampton City	17	12.4
Hanover County	11	10.8
Harrisonburg City	3	5.7
Henrico County	24	7.5
Henry County	11	21.1
Highland County	1	44.5
Hopewell City	7	31.5
Isle of Wight County	3	8.3
James City County	9	12.4
King and Queen County	1	13.9
King George County	3	11.8
King William County	3	18.5
Lancaster County	1	9.1
Lee County	5	20.0
Lexington City	1	13.7

Locality of Injury	Total Cases	Rate
Loudoun County	21	5.8
Louisa County	1	2.9
Lunenburg County	1	8.0
Lynchburg City	9	11.4
Madison County	4	30.4
Manassas	3	7.1
Manassas Park	2	13.2
Martinsville City	4	29.2
Mathews County	3	34.0
Mecklenburg County	3	9.6
Middlesex County	2	18.7
Montgomery County	8	8.2
Nelson County	3	20.2
New Kent County	5	25.0
Newport News City	35	19.1
Norfolk City	44	17.9
Northampton County	2	16.5
Northumberland County	0	0.0
Norton City	0	0.0
Nottoway County	5	32.1
Orange County	8	22.8
Page County	7	29.4
Patrick County	4	21.9
Petersburg City	14	42.8
Pittsylvania County	4	6.4
Poquoson City	1	8.3
Portsmouth City	19	19.8
Powhatan County	1	3.5
Prince Edward County	3	13.0
Prince George County	5	13.4
Prince William County	21	4.7
Pulaski County	3	8.7
Radford City	0	0.0
Rappahannock County	2	27.2
Richmond City	46	21.1
Richmond County	0	0.0

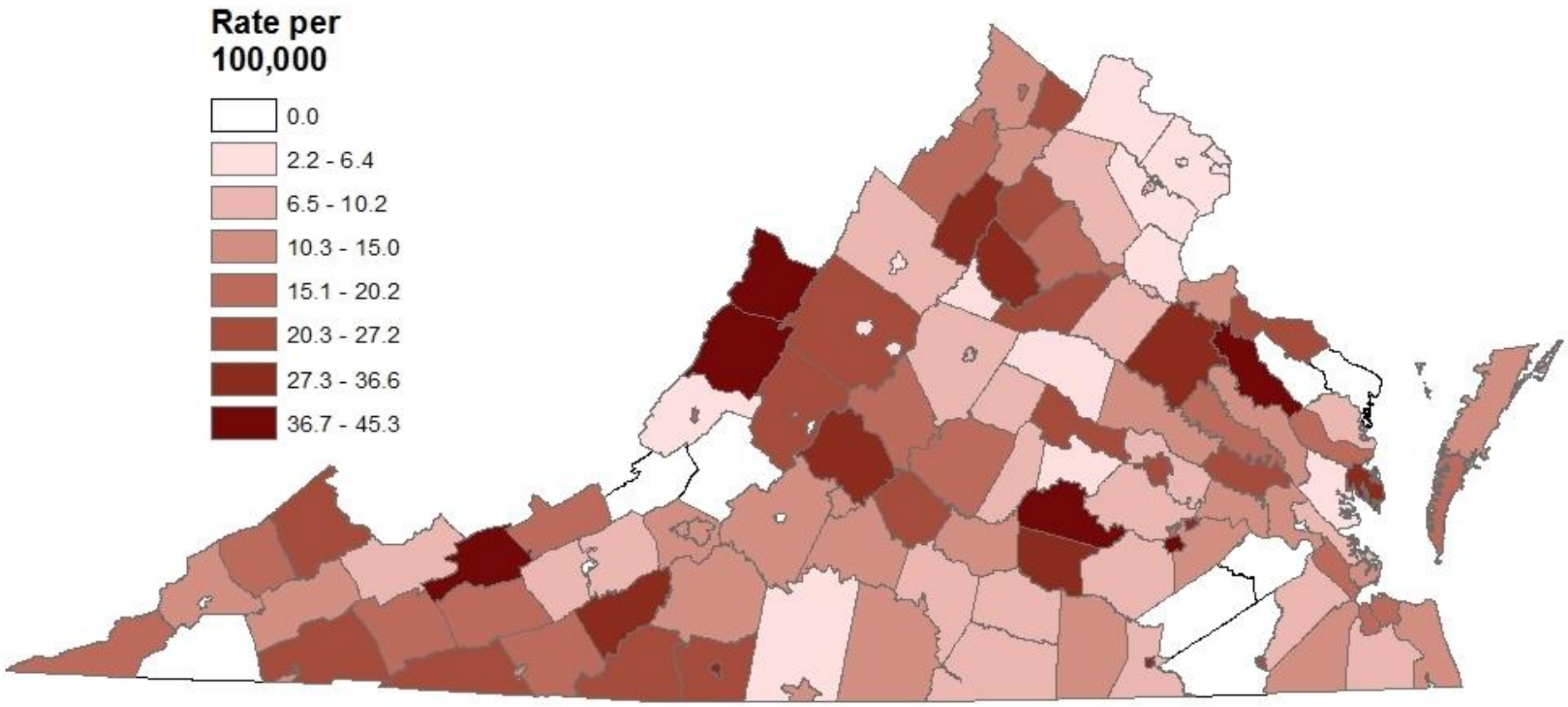
Locality of Injury	Total Cases	Rate
Roanoke City	13	13.1
Roanoke County	13	13.9
Rockbridge County	5	22.4
Rockingham County	7	9.0
Russell County	3	10.7
Salem City	3	11.8
Scott County	0	0.0
Shenandoah County	8	18.6
Smyth County	5	15.8
Southampton County	0	0.0
Spotsylvania County	10	7.7
Stafford County	7	5.0
Staunton City	1	4.1
Suffolk City	11	12.7
Surry County	0	0.0
Sussex County	0	0.0
Tazewell County	4	9.2
Virginia Beach City	54	12.0
Warren County	5	12.8
Washington County	12	21.9
Waynesboro City	1	4.7
Westmoreland County	4	22.9
Williamsburg City	0	0.0
Winchester City	5	18.2
Wise County	6	15.0
Wythe County	5	17.2
York County	5	7.5
Subtotal (in-state)	**889**	**10.7**
Out of State	11	ND
Unknown	1	ND
Subtotal (out-of-state)	**12**	**ND**
TOTAL	**901**	**10.8**

Note: No denominator is represented by ND

Map 6.3 Number of Gun Related Deaths by Locality of Injury, 2014



Map 6.4 Number of Gun Related Deaths by Locality of Injury, 2014



SECTION 7: IN-CUSTODY (PRISONER) DEATHS (N=147)

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 147 in-custody deaths in 2014.

- The majority (79.6%) of in-custody deaths were natural deaths
- The vast majority of deaths were male (88.4%) and white (59.9%)

Figure 7.1 Percentage of In-Custody Deaths by Manner of Death, 2014

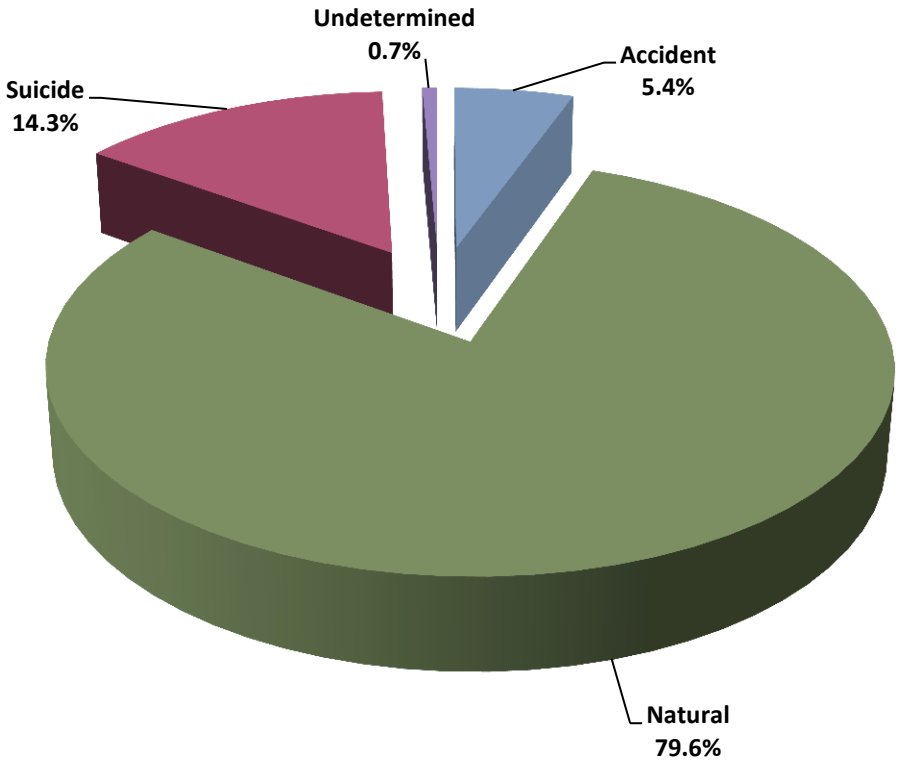


Figure 7.2 Percentage of In-Custody Deaths by Race/Ethnicity, 2014

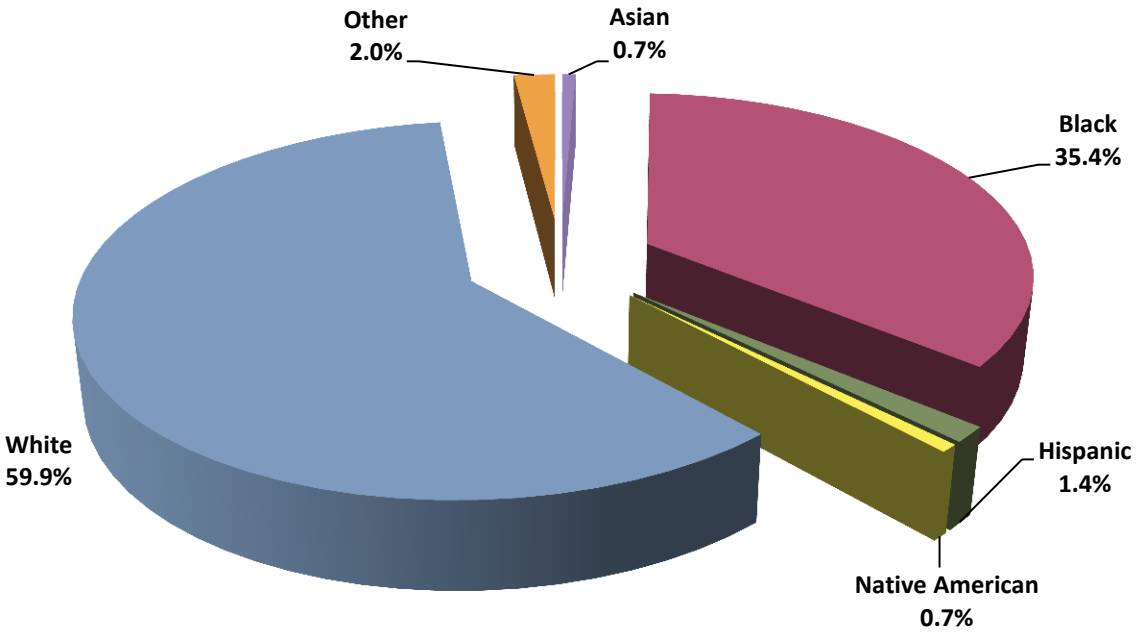


Figure 7.3 7 Number of In-Custody Deaths by Age Group and Gender, 2014

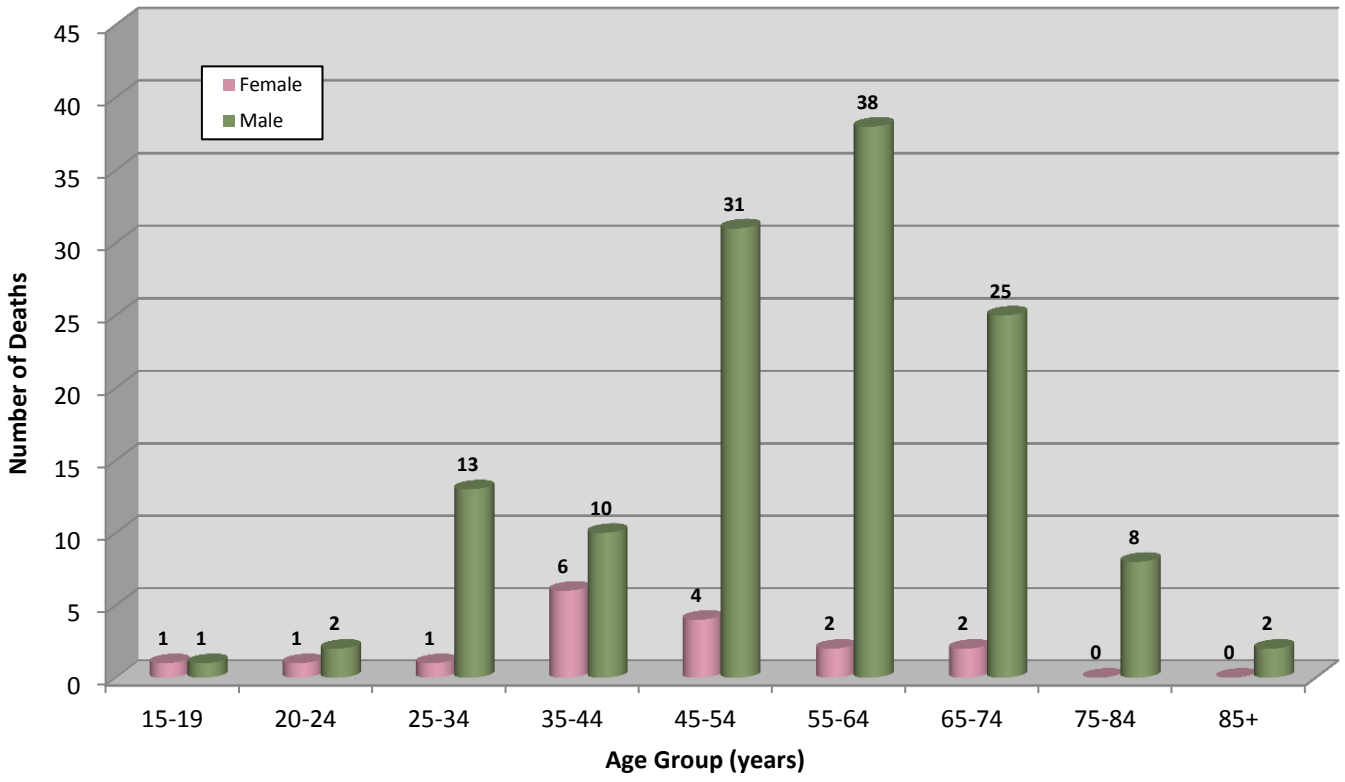


Figure 7.4 Number of In-Custody Deaths by Manner and Race/Ethnicity, 2014

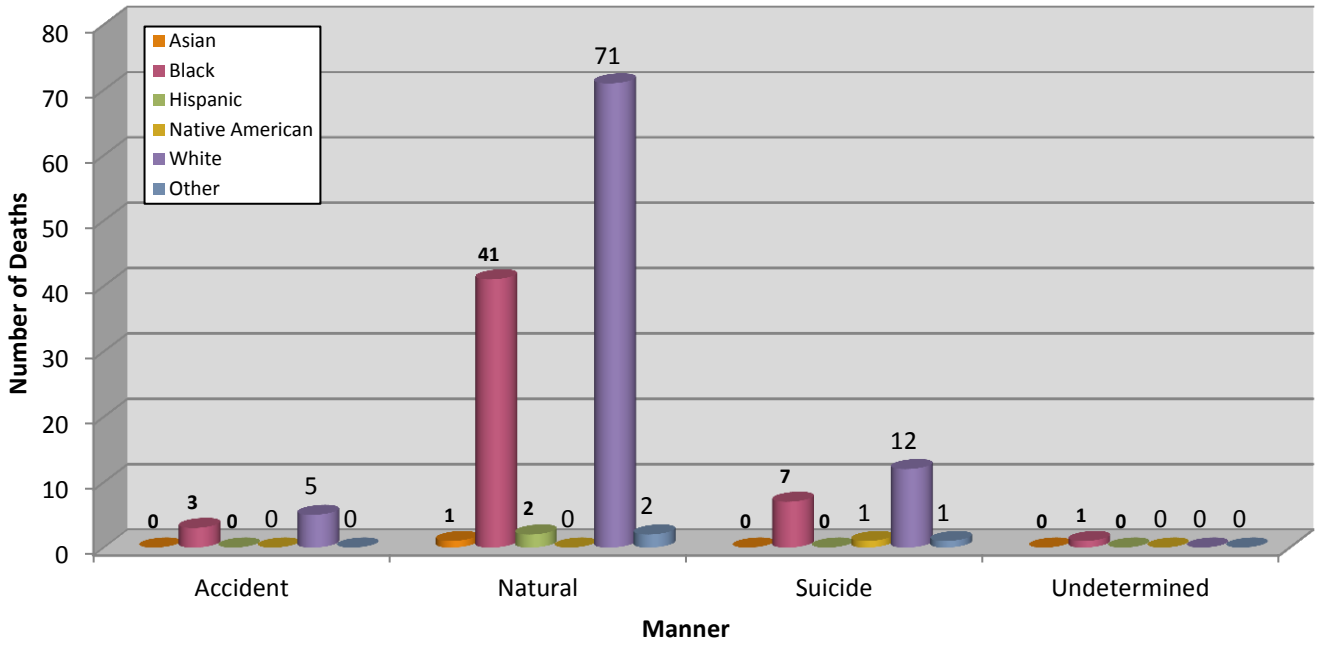


Table 7.1 Number of In-Custody Deaths by Cause and Method of Death, 2014

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	6	11
Atherosclerosis and hypertension	15	17
Cardiac arrhythmia (not specified)	2	2
Cardiomyopathy (not specified)	2	2
Hypertension	8	9
Vascular dissection/rupture	2	2
Other cardiac disease/disorder	3	3
Central Nervous System Diseases/Disorders		
CNS Malignancy	1	1
Vascular disease	1	2
Other CNS disease/disorder	2	2
Gastrointestinal Diseases/Disorders		
Cirrhosis	2	5
GI Hemorrhage	1	3
GI Malignancy	10	13
Hepatitis	1	5

Other GI disease/disorder	3	5
Genitourinal Diseases/Disorders		
Renal disease	0	1
Other genitourinal disease/disorder	2	4
Pulmonary Disease/Disorders		
COPD	0	1
Emboli	2	2
Malignancy	6	8
Pneumonia	3	8
Other pulmonary disease/disorder	0	1
Systemic Diseases/Disorders		
Blood disorders	0	2
Diabetes	0	1
Metastatic malignancy of unknown primary	0	1
Obesity	1	1
Other infectious disease	0	1
Other systemic disease/disorder	2	2
Other Natural Death/Disorder		
Other unnatural	1	2
Natural Death Subtotal	**76**	**117**
UNNATURAL DEATHS	**Autopsied**	**Total Cases**
Asphyxia		
Choked on foreign object	1	1
Hanged	20	20
Blunt Force Injuries (BFT)		
BFT to head/neck	3	3
Gunshot Wound (GSW)		
GSW to head/neck	1	1
Substance Abuse		
Illegal (Street) drug poisoning	3	3
Prescription drug poisoning	2	2
Unnatural Death Subtotal	**30**	**30**
TOTAL OCME DEATHS	**106**	**147**

SECTION 8: STATE MENTAL HEALTH DEATHS (N=63)

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 63 state mental health resident deaths in 2014.

- The majority of state mental health deaths were natural (90.5 %), white (63.5%) and male (52.4%)

Figure 8.1 Percentage of State Mental Health Deaths by Manner, 2014

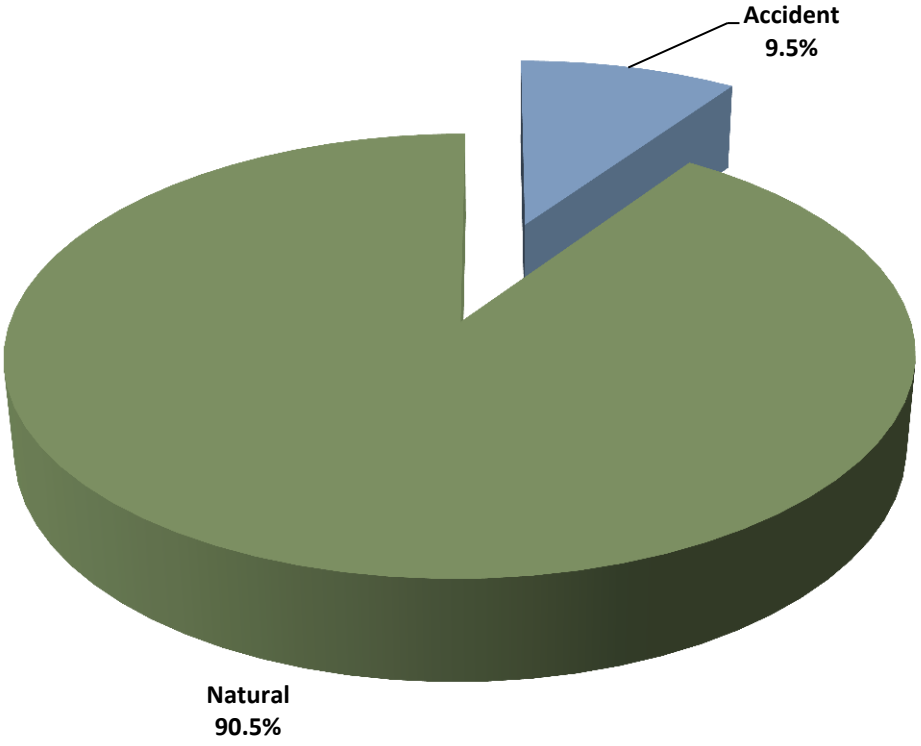


Figure 8.2 Percentage of State Mental Health Deaths by Race/Ethnicity, 2014

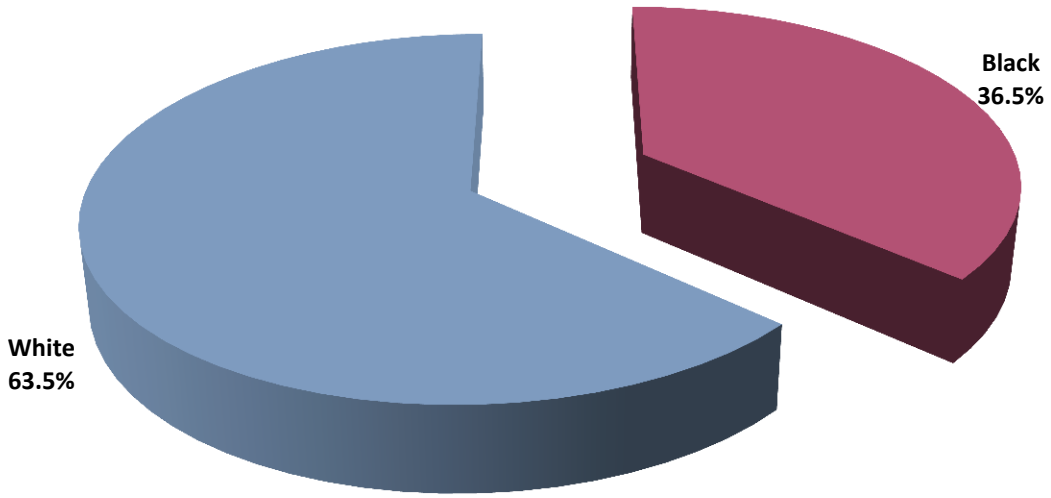


Figure 8.3 Number of State Mental Health Deaths by Age Group and Gender, 2014

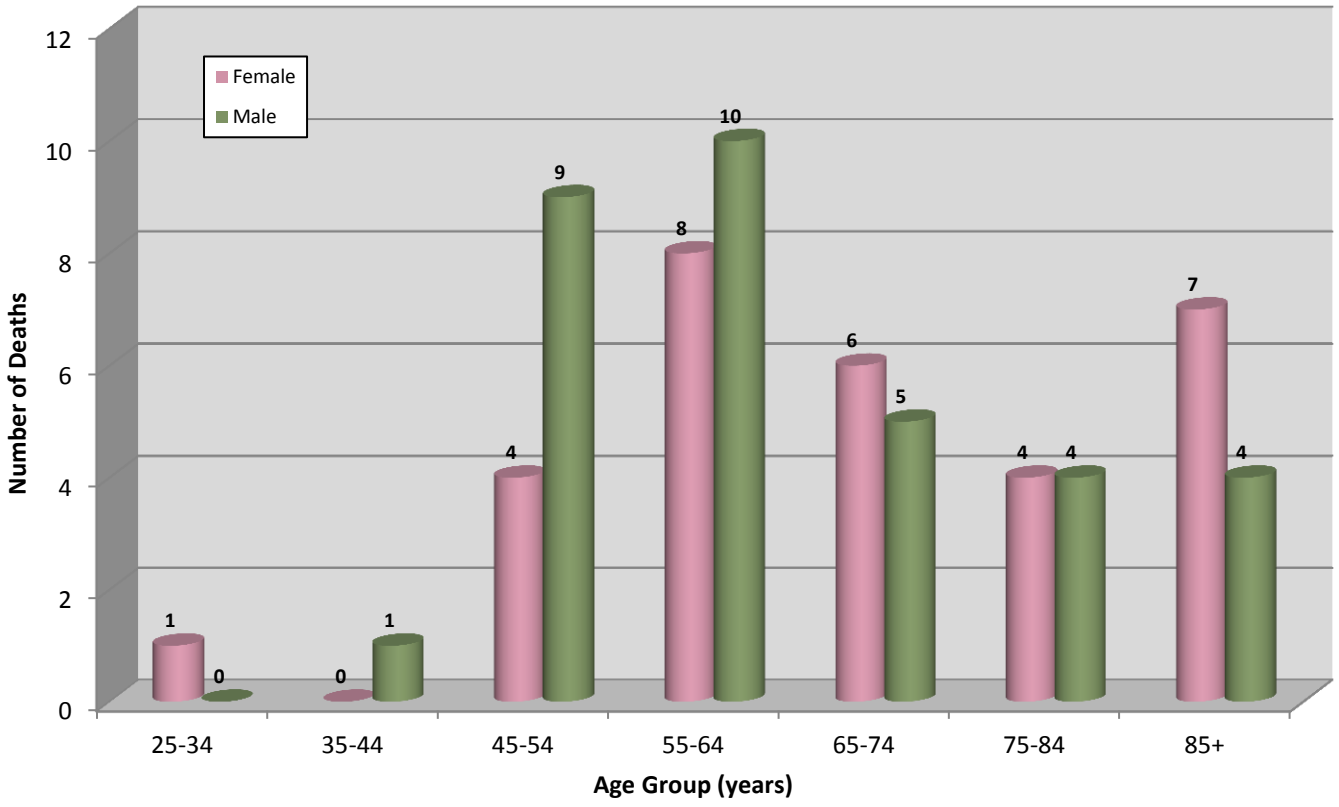


Table 8.1 Number of State Mental Health Deaths by Facility and Gender, 2014

State Facility Type	Female	Male	Total
Training Center	6	14	**20**
All Others	24	19	**43**
TOTAL	**30**	**33**	**63**

Table 8.2 Number of State Mental Health Deaths by Facility and Race/Ethnicity, 2014

State Facility Type	Black	White	Total
Training Center	1	19	**20**
All Others	22	21	**43**
TOTAL	**23**	**40**	**63**

Table 8.3 Number of State Mental Health Deaths by Cause and Method of Death, 2014

NATURAL DEATHS	Autopsied	Total Cases
Cardiovascular Diseases/Disorders		
Atherosclerosis	1	2
Atherosclerosis and hypertension	3	5
Hypertension	1	3
Valvular	1	1
Other cardiac disease/disorder	0	1
Central Nervous System Diseases/Disorders		
Vascular disease	1	2
Other CNS disease/disorder	1	1
Gastrointestinal Diseases/Disorders		
GI malignancy	3	5
Other GI disease/disorder	1	4
Genitourinal Diseases/Disorders		
Genitourinal Malignancy	0	1
Other Genitourinal Disease/Disorder	0	1
Pulmonary Disease/Disorders		
COPD	1	1

Emboli	2	2
Pneumonia	7	21
Pulmonary malignancy	1	1
Systemic Disease/Disorders		
Blood disorder	0	2
Sepsis	0	2
Other Natural Deaths/Disorders		
Other malignancy	1	1
Other natural disease/disorder	1	1
Natural Death Subtotal	**25**	**57**
UNNATURAL DEATHS	**Autopsied**	**Total Cases**
Asphyxia		
Choked on foreign object	3	3
Drowned	0	1
Blunt Force Injuries		
BFT to head/neck	0	1
Other Unnatural		
Other unnatural death	1	1
Unnatural Death Subtotal	**4**	**6**
TOTAL OCME DEATHS	**29**	**63**

SECTION 9: RETROSPECTIVE CASES (N=168)

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 168 retrospective deaths may have been deaths that occurred in other years, but the OCME investigation began in 2014.

- The majority of the OCME's retrospective deaths are accidents (92.3%).
- Most common unreported type of death is due to a jump/fall (78.6%) among elder persons

Figure 9.1 Percentage of Retrospective Deaths by Manner of Death, 2014

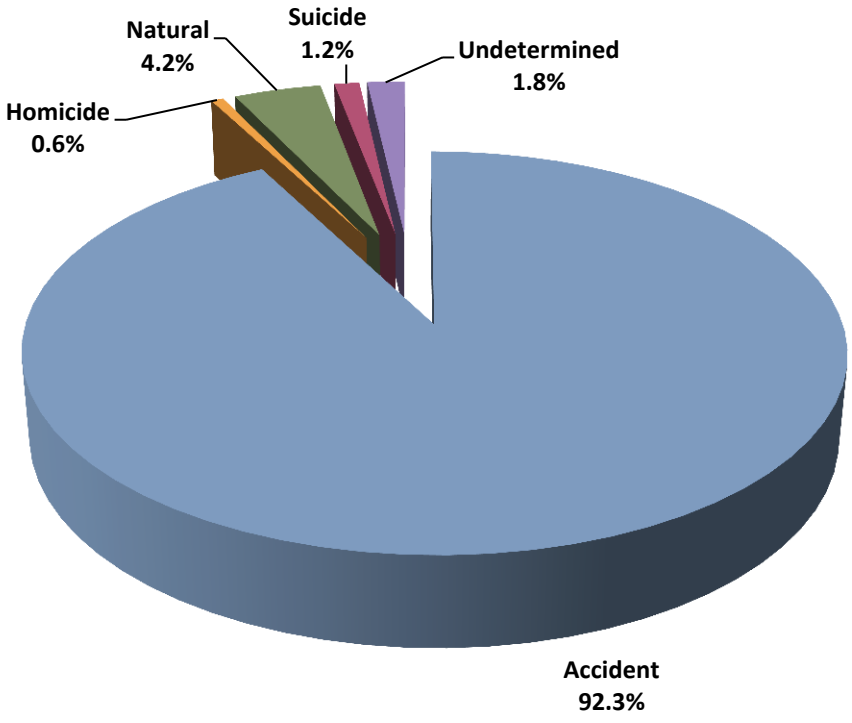


Figure 9.2 Percentage of Retrospective Deaths by Race/Ethnicity, 2014

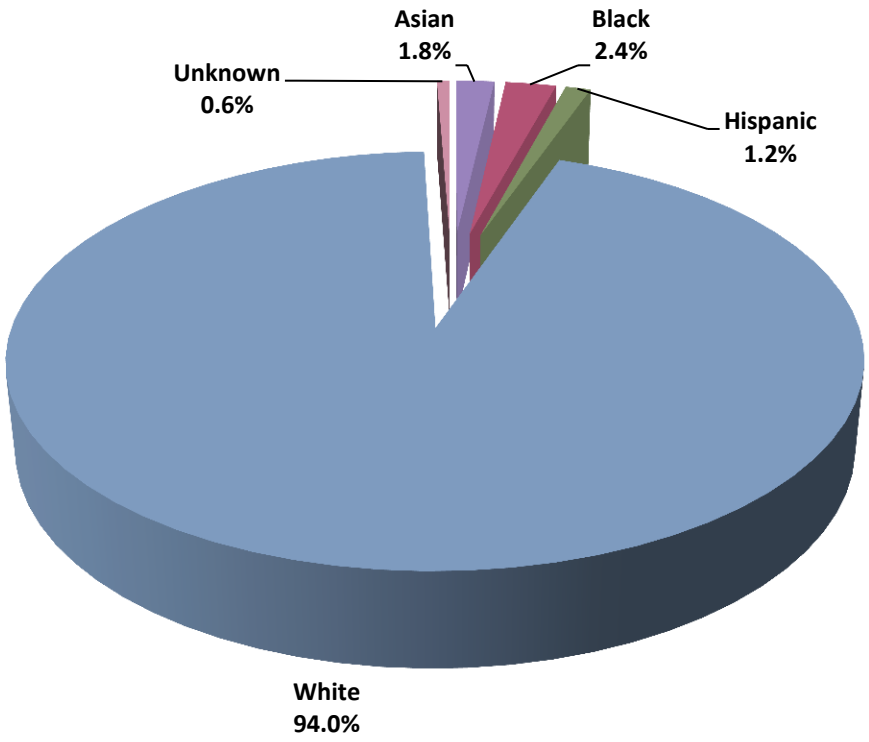


Figure 9.3 Number of Retrospective Deaths by Age Group and Gender, 2014

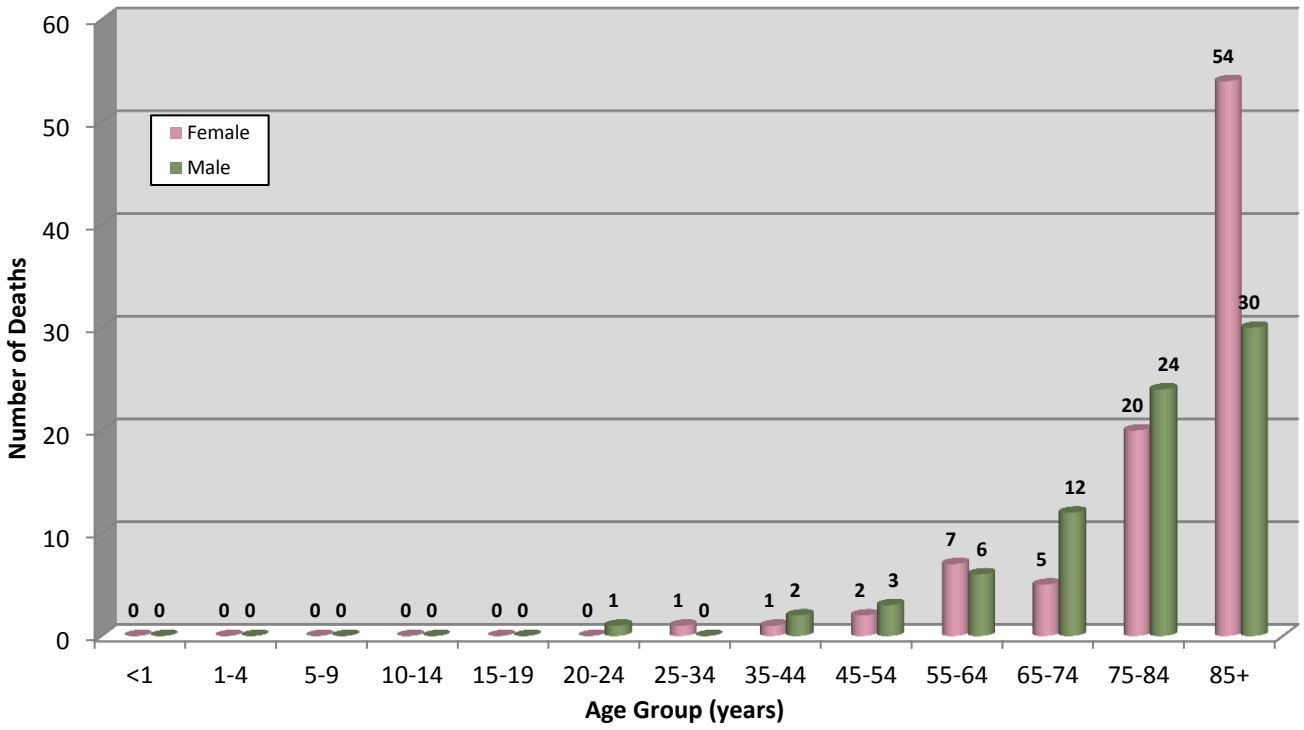


Table 9.1 Number of Retrospective Deaths by Cause and Method of Death, 2014

NATURAL DEATHS	Total Cases
Cardiovascular Diseases/Disorders	
Atherosclerosis	3
Atherosclerosis and hypertension	1
Hypertension	2
Pulmonary Diseases/Disorders	
COPD	1
Systemic Diseases/Disorders	
Chronic alcoholism	1
Sepsis	1
Natural Death Subtotal	**9**
UNDETERMINED DEATHS	**Total Cases**
Undetermined Deaths After Autopsy and/or Investigation	
Other Undetermined	3
Undetermined Death Subtotal	**3**
UNNATURAL DEATHS	**Total Cases**
Asphyxia	
Choked (aspiration food or foreign object)	3
Drowned	1
Fall/Jump	
Fell or jumped from height	132
Motor Vehicle	
Car	4
Helicopter	1
Motorcycle	2
Pickup truck	2
Sport utility vehicle	1
Unknown	1
Substance Abuse	
Illegal (Street) drug poisoning	1
Mixed category drug poisoning	1
Not specified drug poisoning	1
Prescription drug poisoning	5
Traumatic Injury	
Other	1
Unnatural Death Subtotal	**156**
TOTAL OCME DEATHS	**168**

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

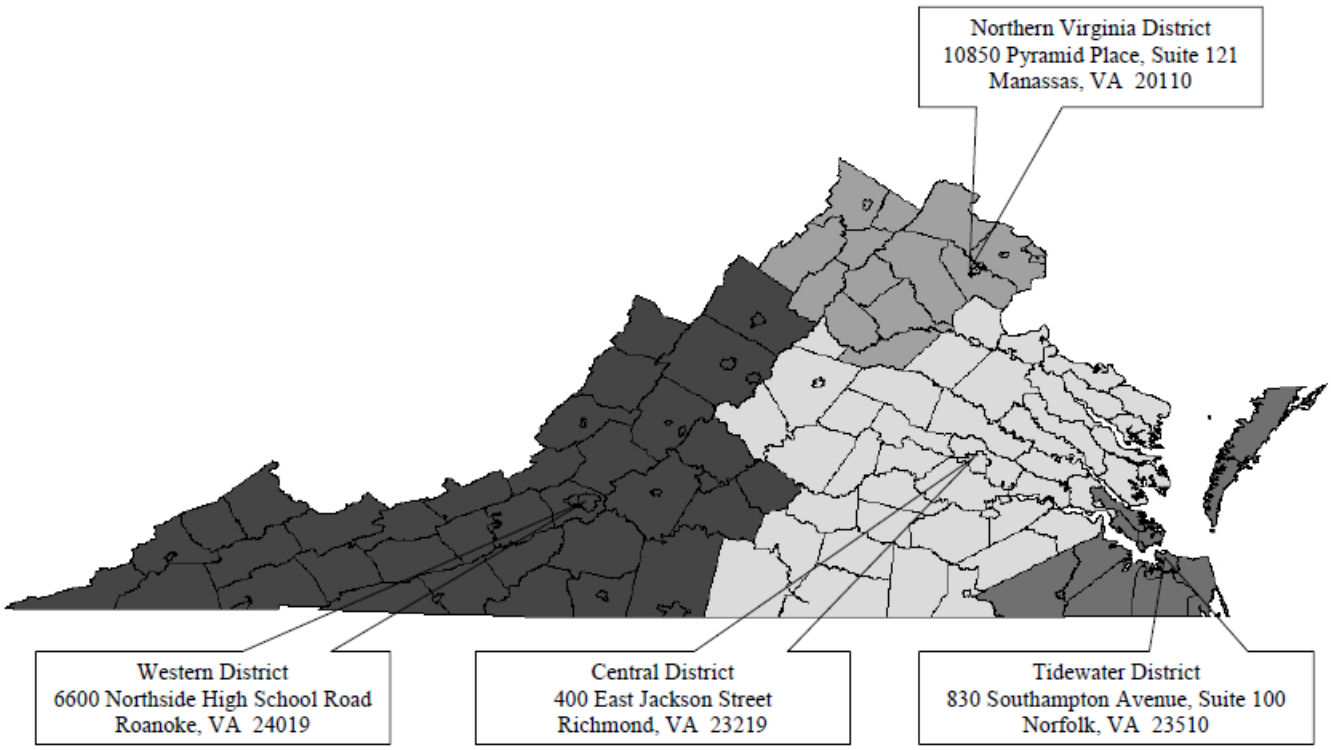
MEDICAL EXAMINER DISTRICTS

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 Bristol, Buena Vista, Covington, Danville, Galax, Harrisonburg, Lexington, Lynchburg, Martinsville, Norton, Radford, Roanoke, Salem, Staunton, and Waynesboro.



Additional copies of this report are available at the following website:

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

Or by contacting:

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

VDH VIRGINIA DEPARTMENT OF HEALTH

Protecting You and Your Environment